2024 ANNUAL WATER QUALITY REPORT

FOR THE
CASS COUNTY SANITARY LANDFILL
15-SDP-01-75C
ATLANTIC, IOWA

by:
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February, 2025

6055-24A.320

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Certification

Prepared by: ___________________________________ Date: 2-13-2025

Typed: Todd Whipple, CPG

Preamble

Recent water quality data and evaluations were reviewed prior to the preparation of this document. Water Quality reports reviewed as background for this study include the 2023 Annual Water Quality Report dated February 28, 2024(Doc #109365) and the 2024 Semi-Annual Water Sampling Notification dated September 27, 2024 (Doc #110964).

A Statistically Significant Level (SSL) for cobalt was tentatively identified at MW-11 based on interwell statistical methods. IDNR correspondence dated August 16, 2024 (Doc #110707) identified the fact that the background water quality data (and the respective limits) was scheduled to be reevaluated in 2024.

On September 6, 2024 SCS Engineers provided a response (Doc #110841) stating the background data for MW-11 had been reviewed and evaluated. Reestablishing the background in the impacted well (intrawell) does not appear to be what was warranted. In fact, the same response letter (Doc #110841) goes on to state that the background system for the entire site (interwell statistical methods) still warranted augmentation and improvement.

It appears that the Semi-Annual Water Quality Notification was then completed September 27, 2024 (Doc #110964) using the suspect background prediction limits and background data.

IDNR correspondence dated August 16, 2024 (Doc #110707) requested information relating to water quality at underdrain UD-0. On September 6, 2024, SCS Engineers provided a response (Doc #110841) stating that the evaluation of UD-0 should be performed by Intrawell methods, rather than interwell methods, since no representative background was available from the site monitoring wells. In the September 6, 2024 document (Doc #110841) it is stated that the minimum number of results (5) were available at UD-0 to complete the interim background and that the 6th sample collected from UD-0 (September 2023) had been compared to the Intrawell background at UD-0 and the September 2023 concentration was not an SSI.

It appears that the Semi-Annual Water Quality Notification was then completed September 27, 2024 (Doc #110964) and that UD-0 was reported as dry on May 30, 2024. Note that UD-0 was also recorded as dry on October 14, 2024.

I agree that intrawell statistical evaluations should be employed for the underdrain water quality evaluation. However, I can not find IDNR approval to do so moving forward.

The IDNR letter dated October 10, 2024 (Doc #111035) requested a schedule for the augmentation sampling desired to improve the interwell monitoring well background. Since the fall sampling was completed October 14, 2024 and the October 10, 2024 IDNR correspondence was not discovered in the record by HLW Engineering until January of 2025, the augmentation sampling has not been completed to date.

It is now recognized that a schedule for the augmentation sampling is required and that the schedule was requested to be filed by November 10, 2024. I apologize for the confusion and oversight of this requested deadline.

It is proposed that the augmentation sampling and reevaluation of the site background be completed in 2025 (likely during multiple sampling events). We propose that amended and reestablished background be included in the 2025 Annual Water Quality Report due January 31, 2026.

In addition to the observations, conclusions, and requests made above, we desire calendar year 2025 to evaluate additional components of the HMSP. Beyond augmentation of the background, we have identified several additional components of the HMSP that warrant reevaluation moving forward during closure.

The components of interest include :

1) Where the site background values (specifically arsenic, barium, and cobalt) exceed the published Statewide Standards in IAC 567, Chapter 137, it may likely be necessary to establish a site-wide GWPS for arsenic, barium, or cobalt.
2) The statistical methods employed (Intrawell, Interwell, and/or both) should be determined moving forward, as the current interwell methods are left wanting based on the lack of sufficient background wells. Additionally, many of the site wells have sufficient data available to employ intrawell methods of study.
3) It is unclear currently whether the Dakota Formation warrants inclusion in the HMSP moving forward.

We request that IDNR afford the Cass County Environmental Control Agency time in 2025 to address the various issues comprehensively in an effort to establish an enduring HMSP during the post-closure period.

Section 1.0 Background Information

1.1 Report Format

Table 1 through Table 13 are attached to this report and satisfy the IDNR requirement to provide the tables to meet the IDNR format requirements included in Special Provision 5.c. of the Permit, dated January 16, 2025 (Doc #111872).

1.2 Report Priority

Sampling in accordance with Table 1 and Table 2 is recommended to comply with the current Permit requirements. It is recommended that detection, assessment, and corrective action monitoring continue in accordance with the HMSP as approved in Special Provision 5 of the Permit, dated January 16, 2025 (Doc #111872). Additionally, the Attenuation Zone Point of Compliance (AZPOC) Wells should also be sampled on a semi-annual basis.

In 2025 additional comprehensive review of the current monitoring system(s), the current statistical evaluation methods, and testing parameters should be completed and changes should be proposed and approved as warranted based on site evidence. The preamble above identifies current conditions that are deemed to warrant review and modification(s).

Some conclusions made herein are considered preliminary until such time that the comprehensive review and evaluations are completed in 2025.

1.3 Period of Report Coverage

Water quality data evaluation is based on a running compilation of data beginning in the Fall of 2016. Statistical evaluations herein are based on the most recent water quality data collected on October 14, 2024. Data collected prior to October 14, 2024 is evaluated by others, most recently in the 2023 Annual Water Quality Report dated February 28, 2024 (Doc #109365) and in the 2024 Semi-Annual Water Quality Notification dated September 27, 2024 (Doc #110964).

1.4 Current Site Maps

Figure 1 is attached illustrating the current site and property boundaries. Figure 2 is a groundwater contour map of the unconsolidated till formations, and Figure 3 is a Potentiometric Groundwater Surface Contour Map for the confined Dakota Bedrock Formation.

1.5 Site Status and Applicable Rules

Site Location

The Cass County Sanitary Landfill is located in SE1/4 Section 13, T76N, R36W and SW1/4 of Section 18, T76N, R35W, Cass County, Iowa. The facility is situated on a public highway (65928 Jackson Road) southeast of Atlantic, Iowa. The facility operates under the Iowa Department of Natural Resources (IDNR) Permit Number 15-SDP-01-75C.

Landfill Layout

The site is situated in the uplands above a creek bounding the north side of the site. The site demonstrates approximately 120 feet of elevation relief across the site. The site was closed in 2023.

As stated in the 1991 HIR:

Surface soils within the landfill area are derived from windblown loess, glacial till and alluvium. The surface soils at the site are described as loam, silty loam and clay loam. Glacial till is the parent material of 17.5 percent, Peorian Loess is the parent material of 23.0 percent, and Alluvium is the parent material of 26.5 percent of the surface soils located within the property boundary of the landfill. Geologic cross sections within the area indicate that a loess mantle approximately 20 feet thick caps the ridges on the site. Underneath the loess, a brown, sandy, silty clay glacial till is present with a maximum thickness of approximately 100 feet. Underlying the glacial till is an alluvial sand which was probably deposited directly on top of the bedrock. In the lowlands, a black silty sand alluvium, with an approximate thickness of 20 feet, is located on top of the alluvial sand, which was deposited on the bedrock surface.

The Cretaceous Dakota Formation represents the uppermost bedrock unit within the landfill area. The Dakota Formation is present in Southwest Iowa as erosional remnants forming the cap of buried bedrock ridges. The Dakota Formation generally consists of two members: the Woodbury Member and the Nishnabotna Member, with the latter being situated stratigraphically lower. Depth to bedrock ranges from 34 feet in the lowland areas to 134 feet in the upland areas.

Applicable Rules

Iowa Administrative Code (IAC) 567-113 is applicable to the Closed Landfill.

1.6 Summary of Hydrologic Monitoring System Plan (HMSP)
The HMSP sampling performed October 14, 2024 conforms to the Permit Provisions.

Water monitoring points are illustrated in Figure 1. Water Contour Maps are included as Figures 2 and Figure 3. The current HMSP is summarized in Table 1. The HMSP Implementation Schedule for 2025 is itemized in Table 2.

MONITORING WELL MAINTENANCE PERFORMANCE REEVALUATION

Table 3 outlines the status of well performance and maintenance activities completed as required by IAC 567-113.10(2) f.

High & Low Water Levels
Current year water elevation data is included on Table 4. Historic water elevation data is included in Table 4A. Water Contour Maps (Figures 2and Figure 3) dated October 2024 are included with this report. The Water Contour Maps illustrates the water surfaces in the formations of interest at this site. Review of the 2024 data does not indicate excessive variability compared to historic water elevation data.

Well Depth & Sedimentation
Well depth measurements were made in October, 2024. Review of the well depth data included on Table 4 indicate that well sedimentation is estimated to be less than one (1) foot at all site monitoring wells, except at MW-21 where 1.2 feet is recorded.

Well Recharge Rates & Chemistry
The originally measured horizontal hydraulic conductivity testing results for existing site monitoring wells is included on Appendix A. Horizontal hydraulic conductivities ranged between 10^{-2} cm/sec and 10^{-6} cm/sec.

Field pumped flow rates for the low flow sampling recorded for May 29, 2024 (on Table 4) indicates that the monitoring wells yield water in volumes generally in the same order of magnitude as the rates reported in 2015. Well production information indicates that recharge to the individual wells remained sufficient to promote collection of representative water quality samples and the wells were functioning as intended. Monitoring well recharge reevaluation is due biennially according to 113.10(2)"f", and should be evaluated again in 2026.

Based on the apparent static condition of the water table and the potentiometric water surface of the Dakota Formation across the site, the conclusions of the well recharge evaluation, and the existing water elevation database, it appears that the semi-annual water elevation data is sufficient to adequately monitor the hydrologic condition of the site. It appears that the integrity of monitoring wells is intact, that the wells are appropriately located to detect impact from the fill.

Waste Separation from Groundwater
Groundwater underdrains include UD-0 and UD-1. UD-0 is the underdrain located below the lagoon. UD-1 is and underdrain below the edge of fill along the south side of the landfill.

Groundwater elevation measurement point GPZ-1 is located at the southwest corner of the waste mass and is utilized to monitor the separation of the waste from the water table in accordance with Special Provision X.5 of the January 16, 2025 Permit (Doc #111872).

On October 14, 2024, GPZ-1 was found to be obstructed. Previous field measurements by others indicate that GPZ-1 was 13.45 feet deep from top of casing. On October 14, 2024 an obstruction was encountered at a depth of 5.3 feet. Additional study and/or repair of this monitoring point is planned for the Spring of 2025.

Section 2.0 Reporting Period Monitoring Activities

A summary of the planned 2025 sample collection events at each monitoring point is included in Table 2. Field sampling data related to October 14, 2024 sampling episode are included on the field forms (IDNR Form 542-1322) in Appendix B.

A comprehensive summary of Analytical Data for the October 14, 2024 sampling episode is included in Table 9.

Per the Permit dated January 16, 2025 (Doc #111872) the HMSP includes the following:

<u>Glacial Till System</u>
Background Point: *MW-15R*.
Downgradient Point of Compliance (POC) Wells: MW-12, MW-19, MW-20, MW-21, MW-37R, MW-38R, and MW-39.
Downgradient Attenuation Zone (AZPOC*) points MW-24 (related to MW-20) and MW-43 (related to MW-12)
Groundwater Underdrain Points UD-0 (lagoon), UD-1 (south side of fill area).

** AZPPOC wells are not included in Special Provision X.5.a of the Permit.*

<u>Dakota Bedrock Formation</u>
Background Point: MW-22
Downgradient POC: MW-11, MW-23, and MW-36
Downgradient Attenuation Zone (AZPOC*) point: MW-13 (related to MW-12)

** AZPPOC wells are not included in Special Provision X.5.a of the Permit.*

2.1 Current Detection Monitoring Activities/Sampling Requirements

Till System - Background well is MW-15R, which is included in the detection monitoring system. The other monitoring points that currently remain in the detection monitoring are limited to UD-0 and UD-1.

Dakota Bedrock System - Background well is MW-22, which is included in the detection monitoring system.

2.2 Current Assessment Monitoring Activities

Till System – MW-19, MW-21, MW-37R, MW-38R, and MW-39 are included in the assessment monitoring system.

Dakota Bedrock System - MW-11, MW-23, and MW-36 are included in the assessment monitoring system.

2.3 Current Corrective Action Activities

MW-12 and MW-20 are Supplemental wells within the originally defined “plumes” that are included in the Corrective Action Monitoring System. MW-12 has AZPOC Wells MW-43 (horizontal) and MW-13 (vertical) established. MW-20 has AZPOC Well MW-24 (horizontal) established.

2.4 Passive Engineered Conveyance Structure (PECS)

Currently there are no Passive Engineered Conveyance Structure (PECS) constructed on site.

Section 3.0 Data Evaluation and Summary

Statistical Evaluations are prepared by Otter Creek Environmental Services for each monitoring episode. The Groundwater Statistics Report for the Cass County Landfill, Second Semi-Annual Monitoring Event in 2024, dated December of 2024 is included in Appendix C.

The Analytical Reports for the laboratory testing of October 14, 2024 sampling episode is included in Appendix D.

QUALITY ASSURANCE/QUALITY CONTROL

A blind duplicate sample was collected at MW-13 during the October 14, 2024 sampling episode. The purpose of the field duplicate is to evaluate the precision of sample collection and analysis process from the field through the laboratory. The calculation of the Relative Percent Difference (RPD) for duplicate pair results is used as the means to evaluate the precision.

The Quality Control (QC) limit for the RPD on field duplicates is established at thirty percent (30%) for duplicate pairs that have reported concentrations five (5) times greater than the laboratory Reporting Limit. For samples and respective duplicates with reported analyte concentrations nearer the Reporting Limit, the RPD calculations demonstrate greater variability and the RPD can be very large. RPD values are considered non-representative in the following conditions:

a) Both the original and the duplicate results are less than five (5) times the Reporting Limit.
b) One or both results are qualified, flagged, or estimated.
c) A result is non-detected.

The results of the blind duplicate and the monitoring well results were within the limits established and indicate that the data quality is acceptable without restriction.

BACKGROUND DATA VALIDATION

On July 10, 2014 an unnumbered Permit Amendment and Memo was issued by the IDNR regarding turbidity (Doc # 80703). A TSS and Field Turbidity Evaluation Report was prepared and submitted on November 21, 2024 (Doc# 111357). The report requested use of field measured turbidity rather than laboratory tested TSS. IDNR response is pending, however, a correlation has been established between turbidity and TSS

“Low-Flow” Sampling methods were employed beginning in 2015. “No-Purge” Sampling methods were employed at this site beginning October 14, 2024. The background data for sample collection episodes are tested for outliers. All outliers are removed from the background. A summary table of field measured turbidity is included in Appendix E.

Upgradient Data, Table 1, Attachment B (shallow groundwater); Upgradient Data and Table 1, Attachment C (bedrock groundwater) included in the October 2024 Statistical Evaluation Report (Appendix C) includes a summary of the background data. The site prediction limits established in the 2024 Statistical Evaluation Report (Appendix C) is based on the validated background. The calculated Site Prediction Limits are in Table 5 (Interwell) and the calculated Control Limits are in Table 5A (Intrawell).

SITE SPECIFIC GWPS

Table 5 includes the comparison of the interwell site prediction limits to the published IAC 567, Chapter 137 Statewide Standard. The instances where the Prediction Limit exceeds the published IAC 567, Chapter 137 Statewide Standards are highlighted in yellow in Table 5.

Till System

Compound	*Prediction Limit*	*IAC 137 GWPS*
Cobalt	4.2 ug/L	2.1 ug/L

Dakota System

Compound	*Prediction Limit*	*IAC 137 GWPS*
Antimony	6.51 ug/L	6.0 ug/L

Table 5A includes the comparison of the intrawell control limits for each monitoring point to the published IAC 567, Chapter 137 Statewide Standard. Note that one or more compounds at each well yields a control limit that exceeds the published IAC 567, Chapter 137 Statewide Standard. Further, the control limits for any given compound varies greatly between wells, supporting the interpretation that spatial variability in formation water is real at the site and is not captured by interwell statistical methods when only a single background well is utilized.

Previously, the 2024 Semi-Annual Water Quality Notification (Doc #110964) reestablished Site-Specific GWPS for **cobalt** in both the Till **System** (**49.62 ug/L**) and in The Dakota Formation (**3.981 ug/L**). The Site-Specific GWPS for cobalt are utilized herein which exceed the published IAC 567, Chapter 137 Statewide Standard. Site-Specific GWPS are included on Table 7.

SUPPLEMENTAL WELL EVALUATION

Supplemental Wells MW-12 and MW-20 are not evaluated statistically. Time series trend analyses are evaluated at MW-12 and MW-20 to observe changes in water quality over time.

Time Series plots illustrate the trends in Supplemental Wells MW-12 and MW-20 and are included in Appendix F.

STATISTICALLY SIGNIFICANT INCREASE (SSI) EVALUATION

The water quality is evaluated by both Interwell and Intrawell methods. The basis for adding Intrawell statistical evaluations is twofold. First, it is recognized that the interwell background established using a single monitoring well is not a representative of the natural variability of formation waters across the site. Additional background data should be included for interwell evaluations or intrawell evaluations should be utilized in lieu of interwell methods.

Second, it is also recognized that the comparison of water collected from underdrain systems are not readily comparable to a background prediction limit (interwell) established from groundwater monitoring wells that are far removed from the waste mass.

Table 7 has been modified in order to summarize compound concentrations relative to both the interwell prediction limits and the intrawell control limits. In instances where the compound concentrations exceed the interwell prediction limits the value is highlighted in blue. In instances where the compound concentrations exceed the intrawell Control limits the value is highlighted in purple.

Interwell Methods

The detected concentrations of each compound are compared to the site prediction limit for each respective compound calculated based on the background data set. In detection monitoring wells, a detected concentration for a compound that is in excess of the calculated site prediction limit is recorded as a Statistically Significant Increase (SSI). In 2024 there were no new SSI recorded at detection monitoring points.

In assessment monitoring wells, the exceedances are not required to be reported as SSI.

Table 6 is a summary of all compounds at site monitoring wells that have exceeded a *current* prediction limit in 2024. Table 7 includes highlighted (blue) values that signify detected concentrations that exceeded the prediction limits (SSI) over time at the assessment monitoring wells.

Intrawell Methods

The detected concentrations of each compound are compared to the Control Limit for each respective compound calculated from background data points in the dataset. In detection monitoring wells, a detected concentration for a compound that is in excess of the calculated Control limit is recorded as a Statistically Significant Increase (SSI). In 2024 there were no new SSI recorded at detection monitoring points.

In assessment monitoring wells, the exceedances are not required to be reported as SSI.

Table 6A is a summary of all compounds at site monitoring wells that have exceeded a *current* Control limit in 2024. Table 7 includes highlighted (purple) values that signify detected concentrations that exceeded the prediction limits (SSI) over time at the assessment monitoring wells.

This report serves as notice to the operating record in accordance with IAC 567-113.10(5)c.

ASSESSMENT MONITORING SUMMARY

Assessment monitoring is required to be repeated annually per IAC 567-113.10(6)b. However, a five (5) year full Appendix II sampling frequency is utilized where at least two (2) full Appendix II samples have been collected.

Full rounds of Appendix II assessment monitoring are current at all monitoring wells as warranted. Table 2 summarizes the dates of the Appendix II sampling events at assessment monitoring wells since 2009.

Appendix II detections (beyond the Appendix I list) have **not** been detected above laboratory method detection limits, with the following exceptions:

MW-19 (Assessment) - sulfide, gamma-chlordane
MW-20 (Supplemental) sulfide, Endosulfan I
MW-21 (Assessment) - sulfide

The summary of assessment monitoring detections to date is presented in Appendix G. The full Appendix II sampling episodes are highlighted in green in the tables in Appendix G.

STATISTICALLY SIGNIFICANT LEVEL (SSL) EVALUATION

The compounds with detections that exceed site prediction limits and/or intrawell Control limits (see summary in Table 1) are utilized to calculate the Confidence Interval (the 95% lower confidence limits (LCL) and the 95% upper control limits (UCL)) in accordance with the 2009 Unified Guidance for Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities by US EPA. The 95% LCL values are compared to applicable GWPS. Any 95% LCL value that exceeds an applicable GWPS is recorded as an SSL. All wells with a recorded SSL require the plume of impact to be defined in the horizontal and vertical directions and require completion of an Assessment of Corrective Measures (ACM).

So far, the exception to this procedure is related to selenium at MW-39. The June 2020 ACM Report (Doc#97998) indicates that the selenium concentrations at MW-39 are not landfill related. This interpretation was approved by IDNR on September 21, 2020 (Doc #98498).

The SSL Evaluation is based on data for each downgradient monitoring well. The Confidence Intervals (95% LCL and 95% UCL) are calculated during each statistical evaluation based on the most recent four (4) data points. The 95% LCL evaluation is presented in Table 7.

The 95% LCL values at assessment/corrective action monitoring wells are below the applicable Site Specific GWPS or Statewide Standards published in IAC 567, Chapter 137, except at MW-11 where the 95% LCL for cobalt historically exceeded the Site-Specific GWPS (highlighted in orange).

MW-12 and MW-20 (Supplemental Wells) historically demonstrated SSL for arsenic, and arsenic and barium, in each respective well. Cobalt at MW-11 is currently the only compound with a recorded potential SSL. As described above, the 95% LCL value for cobalt at MW-11 exceeds the current GWPS. The current GWPS is a Site-Specific GWPS established using data from MW-22 and MW-41 (a well not in the HMSP), as described on page 2 of the September 27, 2024 Semi-Annual Sampling Notification (Doc #110964). It is interesting to note that from 2012 to 2018, the Site Specific GWPS for cobalt in the Dakota Formation was 45.61 ug/L. In 2018 the site-specific GWPS for the Dakota was changed to 3.981ug/L.

It follows that the current potential SSL for cobalt at MW-11 is apparently tied more directly to an unsettled site-specific GWPS than to elevated cobalt concentrations in the well. Table 7 illustrates that the detected cobalt concentrations are reported to range from 3.0 ug/L to 14.8 ug/L. The calculated 95% LCL ranges from 3.083 ug/L to 7.116 ug/L. The site-specific GWPS ranges from 3.981 ug/L to 45.61 ug/L. The October 14, 2024, 95% LCL value (3.083 ug/L) has dropped below the current GWPS (3.981 ug/L).

Although the current condition of the water quality results at MW-11 (based on the current GWPS) reports cobalt to be designated an SSL, additional evaluation of several factors are warranted prior to committing to a final designation as an SSL. It is recognized that the following items need to be comprehensively addressed as set forth in the Preamble to this report:

1) The site background requires improvement and a site-wide GWPS for cobalt needs to be established based on a sound background data pool.
2) Statistical evaluation methods need to be expanded to include Intrawell Statistical methods as spatial variability of water quality is not currently accommodated in the HMSP or in the interwell statistical evaluation methods.
3) Whether the Dakota Formation warrants inclusion in the HMSP.

ASSESSMENT OF CORRECTIVE MEASURES

The Assessment of Corrective Measures (ACM) report related to MW-12, MW-19, MW-20, and MW-39 was submitted to IDNR on June 30, 2020 (Doc #97998). The ACM Report was approved by IDNR (Doc #98498).

The 2023 Annual Water Quality Report (AWQR) tentatively identified a cobalt SSL at MW-11 (Doc #109365). The 2023 AWQR also recommended reviewing and augmenting site background to more appropriately represent the site background conditions. The 2023 AWQR also states regarding the cobalt SSL at MW-11: "In the event that the SSL is confirmed, the remedy outlined in the approved Assessment of Corrective Measures report dated June 30, 2020 (Doc #97998) appears applicable for this potential SSL as it addressed this area of the site with MW-11 being clustered with MW-12."

It is surmised that the Natural Monitored Attenuation remedy may be applied to MW-11 in the future if the SSL for cobalt is determined to be accurate.

CORRECTIVE ACTION MONITORING & EVALUATIONS

The arsenic SSL at MW-12 is evaluated at AZPOC monitoring wells MW-13 and MW-43. Both AZPOC wells demonstrate that the remedy is complete at MW-13 and MW-43.

The arsenic and barium SSL at MW-20 is evaluated at AZPOC monitoring wells MW-24. The AZPOC well demonstrates that the remedy is complete at MW-24.

The monitored natural attenuation remedy for MW-11 will be evaluated in the future should the SSL for cobalt be determined to be accurate at MW-11.

Section 4.0 Leachate Collection System Performance Evaluation

Between January 1, 2024, and December 31, 2024, staff reported that 73,210 gallons of leachate were hauled to the City of Atlantic POTW.

The facility has an Authorization to Discharge leachate at the Atlantic POTW and/or the Corning POTW according to the treatment agreement included in the Atlantic NPDES Permit (Appendix H.1) and the Corning NPDES Permit (Appendix H.2).

The leachate testing performed in 2024 is included in Appendix H.3.

Leachate head piezometers are constructed in the original landfill (PZ-1R, PZ-2, PZ-3R, PZ-4, and PZ-5R) and in RCRA Subtitle D Expansion Phases 0-2 (LPZ-0, LPZ-1, and LPZ-2). Measurements are collected monthly at LPZ-0, LPZ-1, and LPZ-2; and quarterly at PZ-1R, PZ-2, PZ-3R, PZ-4, and PZ-5R. The LPZ measurements for 2024 are included in Table 12, while the measurements over time are summarized in Table 12A.

Review of the 2024 data indicates that all measurements are recorded at less than 12 inches in the RCRA Subtitle D Expansion Phases 0-2. There are no leachate level restrictions applied to unlined landfill cells in the original landfill.

LPZ-2 (in Phase 2) is recorded as damaged in November and December of 2024 and is scheduled to be repaired in the Spring of 2025 when frost is out of the ground.

Leachate Storage System

Leachate collected at the site is stored in the Subtitle D composite lined leachate storage lagoon. The lagoon has a capacity of approximately 628,888 gallons.

Leachate Line Cleaning

The leachate gravity collection and conveyance lines in the landfill were cleaned in May 28, 2024. As per IDNR regulations, the lines should be cleaned every 3 years (next cleaning will be scheduled for 2027).

Section 5.0 Gas Monitoring

A Summary table of gas monitoring is as Table 13.

Explosive gas monitoring per 113.9(2) was conducted quarterly during the last reporting period (2024).

Explosive gas concentrations are recorded as percent lower explosive limit (% LEL) and were undetected or below action levels at all points during the monitoring episodes.

Section 6.0 Recommendations

Sampling in accordance with Table 2 is recommended. It is recommended that detection, assessment, and corrective action monitoring continue in accordance with the approved HMSP.

We request the calendar year 2025 to perform additional study and to improve the HMSP, as warranted. The following should be evaluated and improved:

1) The site background requires improvement and a site-wide GWPS for cobalt needs to be established based on a sound background data pool.
2) Statistical evaluation methods need to be expanded to include Intrawell Statistical methods as spatial variability of water quality is not currently accommodated in the HMSP and the interwell statistical evaluation methods.
3) Determine whether the Dakota Formation warrants inclusion in the HMSP.

Approval of Intrawell Statistical Evaluations of water quality at the underdrain sampling points UD-0 and UD-1 is desired.

Additional study and/or repair at GPZ-1 should be completed in the Spring of 2025.

Repair at LPZ-2 should be completed in the Spring of 2025.

A TSS and Field Turbidity Evaluation Report was prepared and submitted on November 21, 2024 (Doc# 111357). We request IDNR response/approval of the correlation proposed.

Figures

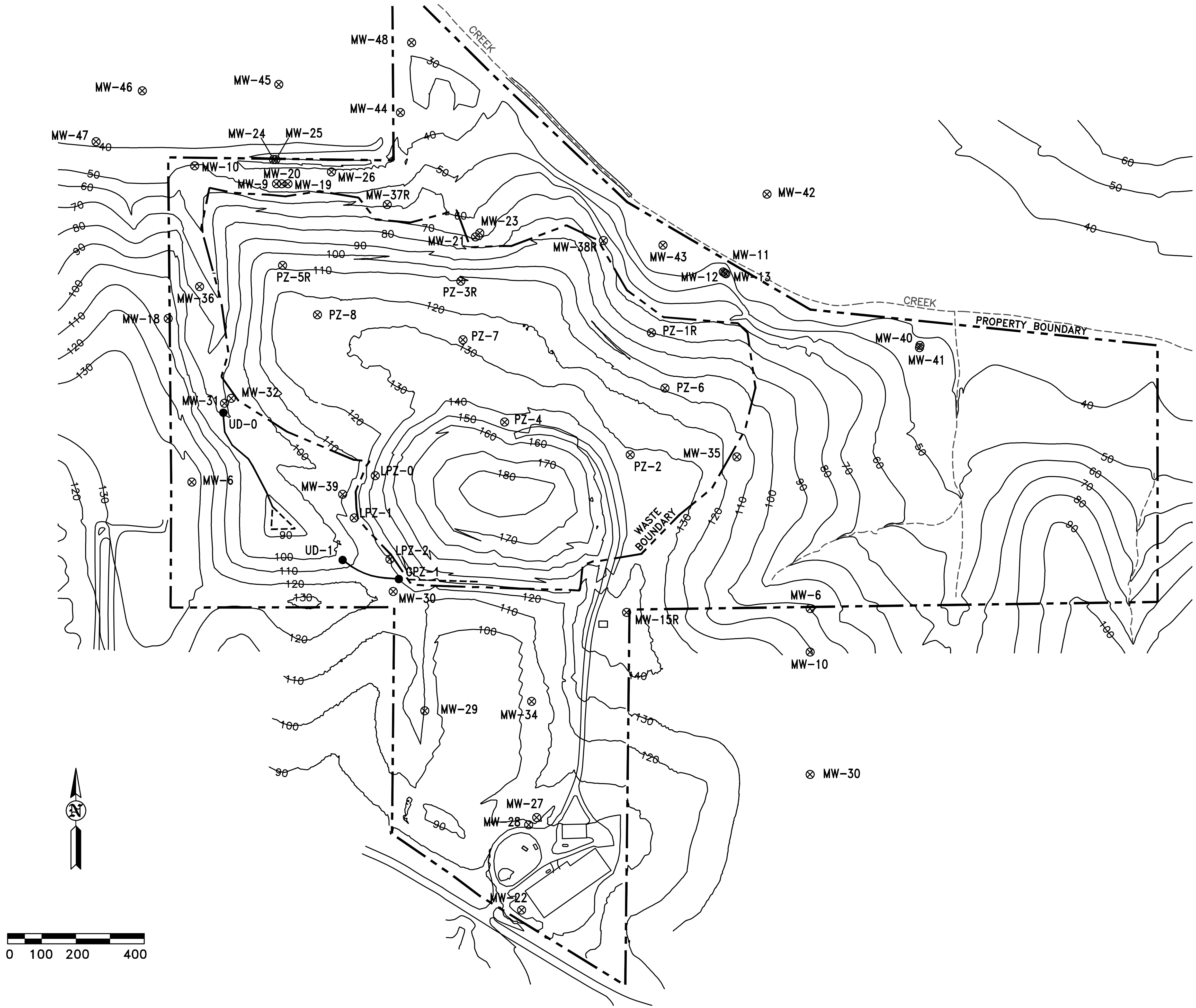

FIGURE: 1

REVISION	NO.	DATE
DRAWN DRA	PROJECT NO. 6055	DATE 2-6-25

SITE PLAN

CASS COUNTY SANITARY LANDFILL
ATLANTIC, IOWA

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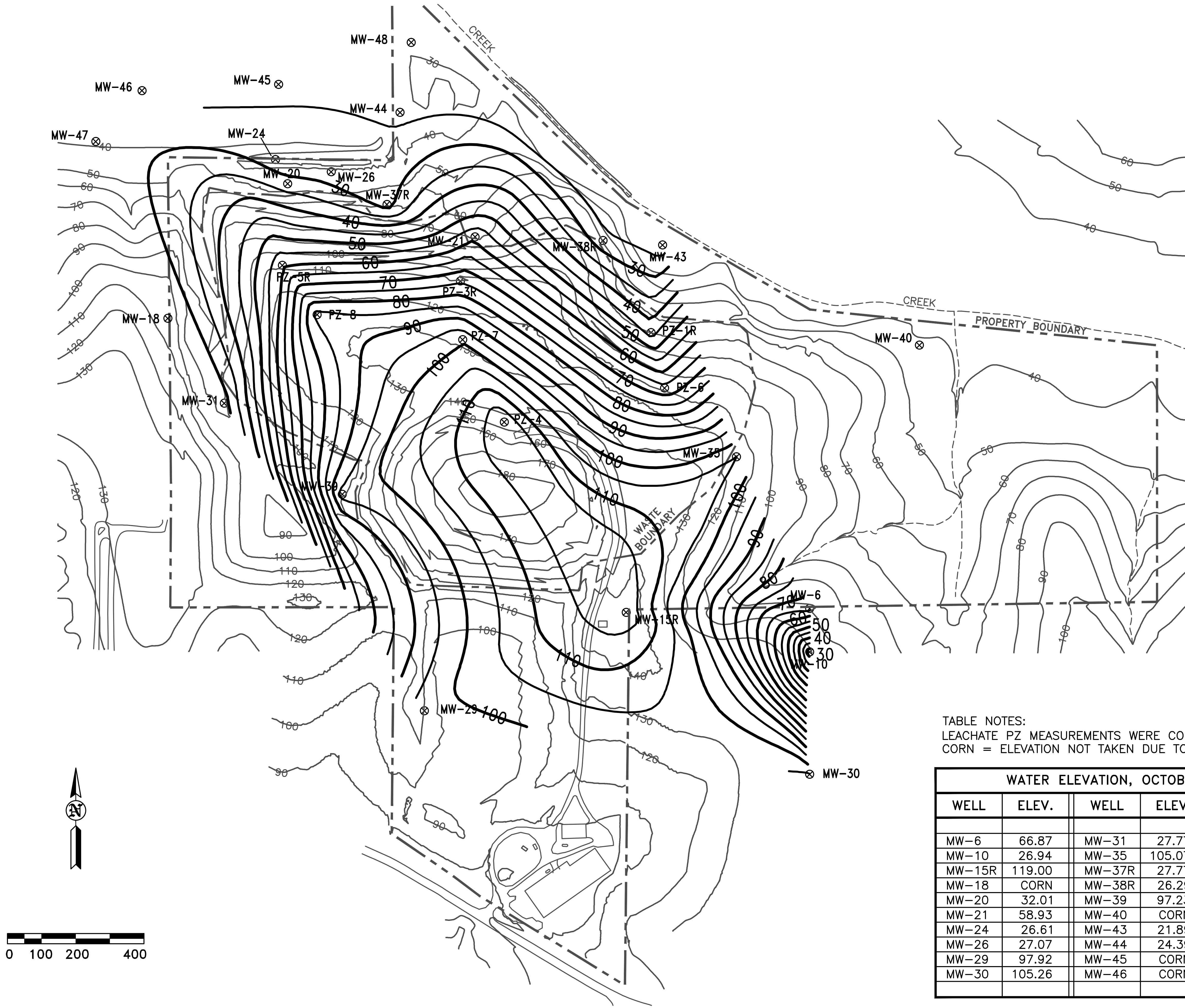

TABLE NOTES:
LEACHATE PZ MEASUREMENTS WERE COLLECTED 9/20/24.
CORN = ELEVATION NOT TAKEN DUE TO CORN IN THE FIELD.

WATER ELEVATION, OCTOBER 14, 2024					
WELL	ELEV.	WELL	ELEV.	WELL	ELEV.
MW-6	66.87	MW-31	27.77	MW-47	26.00
MW-10	26.94	MW-35	105.07	MW-48	23.08
MW-15R	119.00	MW-37R	27.77	PZ-1R	42.83
MW-18	CORN	MW-38R	26.29	PZ-3R	74.20
MW-20	32.01	MW-39	97.23	PZ-4	119.70
MW-21	58.93	MW-40	CORN	PZ-5R	59.08
MW-24	26.61	MW-43	21.89	PZ-6	66.34
MW-26	27.07	MW-44	24.39	PZ-7	99.20
MW-29	97.92	MW-45	CORN	PZ-8	86.89
MW-30	105.26	MW-46	CORN		

FIGURE: 2

NO. | DATE
REVISION
DRAWN DRA | PROJECT NO. 6055 | DATE 1-6-25

GROUNDWATER CONTOURS WATER TABLE

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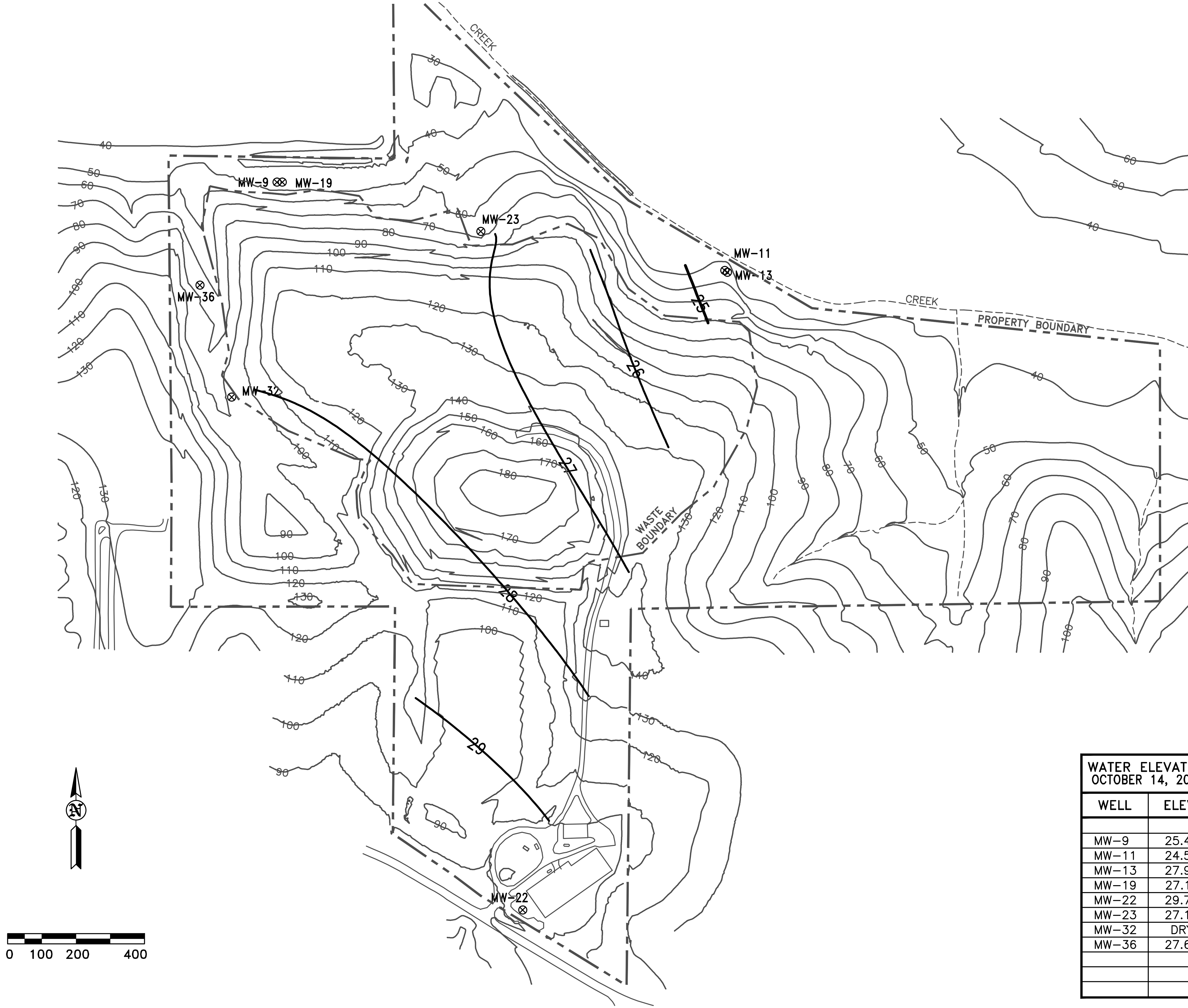

WATER ELEVATION OCTOBER 14, 2024	
WELL	ELEV.
MW-9	25.45
MW-11	24.58
MW-13	27.97
MW-19	27.19
MW-22	29.70
MW-23	27.15
MW-32	DRY
MW-36	27.66

FIGURE: 3

REVISION | NO. | DATE

DRAWN DRA | PROJECT NO. 6055 | DATE 1-6-25

GROUNDWATER CONTOURS DAKOTA SANDSTONE

CASS COUNTY SANITARY LANDFILL
ATLANTIC, IOWA

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HLW
HLW Engineering Group

Tables
(in IDNR Format)

Table Index

Table 1 – Monitoring Program Summary

Table 1
Monitoring Program Summary
Annual Water Quality Report
Cass County Sanitary Landfill
Permit No. 15-SDP-01-75C

Monitoring Well	Formation	Current Monitoring Program	Change for next sampling event	Constituents w/ SSI	Constituents w/ SSL	Total # of Samples in each monitoring program since October 28, 2014		
						Detection	**Assessment**	**Corrective Action**
MW-15R	Till	Background	NC	None	None	**32**	0	0
MW-12	Alluvium	Supplemental	NC	None	**Not Applicable**	0	0	**18**
MW-19	Alluvium	Assessment	NC	Ba, Co, Ni, benzene, chlorobenzene	None	0	**39**	0
MW-20	Alluvium	Supplemental	NC	As, Ba, Co, Ni, 1,4-dichlorobenzene, benzene, chlorobenzene, Endosulfan I	**Not Applicable**	0	0	**34**
MW-21	Till	Assessment	NC	Ba, Co, Cu, Ni	None	0	**34**	0
MW-24	Till	AZPOC to MW-20	NC	As, Ba, Co, Ni	None	0	**23**	0
MW-37R	Till	Assessment	NC	Ba, Pb, Se	None	0	**15**	0
MW-38R	Till	Assessment	NC	Ni, Se, additional [1]	None	0	**15**	0
MW-39	Till	Assessment	NC	Se [2]	**None** [2]	0	**36**	0
MW-43	Till	AZPOC to MW-12 (horizontal)	NC	None	None	0	**13**	0
UD-0	Underdrain	Detection	NC	None [3]	None	**7**	0	0
UD-1	Underdrain	Detection	NC	None [3]	None	**1**	0	0
MW-22	Dakota Formation	Background	NC	None	None	**36**	0	0
MW-11	Dakota Formation	Assessment	NC	As, Ba, Co	**Cobalt** [4]	0	**38**	0
MW-23	Dakota Formation	Assessment	NC	None	None	0	**38**	0
MW-36	Dakota Formation	Assessment	NC	None	None	0	**35**	0
MW-13	Dakota Formation	AZPOC to MW-12 (vertical)	NC	None	None	0	0	**1**
MW-6	Till	Water Elevation Only	NC	N/A	N/A	N/A	N/A	N/A
MW-10	Till	Water Elevation Only	NC	N/A	N/A	N/A	N/A	N/A
MW-18	Till	Water Elevation Only	NC	N/A	N/A	N/A	N/A	N/A
MW-26	Till	Water Elevation Only	NC	N/A	N/A	N/A	N/A	N/A
MW-29	Till	Water Elevation Only	NC	N/A	N/A	N/A	N/A	N/A
MW-30	Till	Water Elevation Only	NC	N/A	N/A	N/A	N/A	N/A
MW-31	Till	Water Elevation Only	NC	N/A	N/A	N/A	N/A	N/A
MW-32	Dakota Formation	Water Elevation Only	NC	N/A	N/A	N/A	N/A	N/A
MW-35	Till	Water Elevation Only	NC	N/A	N/A	N/A	N/A	N/A
MW-40	Till	Water Elevation Only	NC	N/A	N/A	N/A	N/A	N/A
MW-41	Till	Water Elevation Only	NC	N/A	N/A	N/A	N/A	N/A
MW-42	Till	Water Elevation Only	NC	N/A	N/A	N/A	N/A	N/A
MW-44	Till	Water Elevation Only	NC	N/A	N/A	N/A	N/A	N/A
MW-45	Till	Water Elevation Only	NC	N/A	N/A	N/A	N/A	N/A
MW-46	Till	Water Elevation Only	NC	N/A	N/A	N/A	N/A	N/A
MW-47	Till	Water Elevation Only	NC	N/A	N/A	N/A	N/A	N/A
MW-48	Till	Water Elevation Only	NC	N/A	N/A	N/A	N/A	N/A

(1) *Additional compounds As, Cr, Co, Cu, Pb, V, Zn were elevated in October 2024.*
(2) *Selenium is not attributed to landfill impact based on Doc #97998, ACM Report dated June 2020.*
(3) *Insufficient data is available to evaluate from the dry underdrains*
(4) *The SSL is considered tentative at this time. Further evaluations are required prior to final designation of a cobalt SSL at MW-11.*

Table 2 – Monitoring Program Implementation Schedule

Table 2
Monitoring Program Implementation Schedule
Annual Water Quality Report
Cass County Sanitary Landfill
Permit No. 15-SDP-01-75C

Monitoring Well	Recent Sampling Dates and Constituents	Upcoming Sampling Dates and Constituents		Full Appendix II Sample Dates	
		April, 2025	**October, 2025**	**Previously Collected**	**Next Event**
MW-15R		Appendix I	Appendix I		N/A
MW-12	**See Table 2A**	Appendix I	Appendix I	8/21/09, 8/31/10, 3/28/16, 5/6/21	N/A
MW-19		Appendix I (1,2)	Appendix I (1,2)	7/7/11, 10/9/12, 3/27/17, 4/6/22	**2027**
MW-20		Appendix I (1,3)	Appendix I (1,3)	8/21/09, 8/31/10, 10/27/11, 2/15/16, 5/6/21	N/A
MW-21		Appendix I (1)	Appendix I (1)	7/7/11, 10/9/12, 3/27/17, 4/7/22	**2027**
MW-24		Appendix I	Appendix I	9/29/22, 3/9/23	**2028**
MW-37R		Appendix I	**Appendix II**	3/30/20, 11/17/20	**2025**
MW-38R		Appendix I	**Appendix II**	3/30/20, 11/17/20	**2025**
MW-39		Appendix I	Appendix I	7/7/11, 10/9/12, 3/27/17, 4/8/22	**2027**
MW-43		Appendix I	Appendix I	8/23/2022	N/A
UD-0		Appendix I	Appendix I		N/A
UD-1		Appendix I	Appendix I		N/A
MW-22		Appendix I	Appendix I		N/A
MW-11		Appendix I	Appendix I	8/21/09, 8/31/10, 10/27/11, 2/15/16, 5/6/21	**2026**
MW-23		Appendix I	Appendix I	7/7/11, 10/9/12, 3/27/17, 4/7/22	**2027**
MW-36		Appendix I	Appendix I	7/7/11, 10/9/12, 3/27/17, 4/7/22	**2027**
MW-13		Appendix I	Appendix I		N/A

(1) Sulfide
(2) Gamma-Chlordane
(3) Endosulfan I

Table 3 – Monitoring Well Maintenance Performance Reevaluation Schedule

Table 3
Monitoring Well Maintenance and Performance Revaluation Schedule
Annual Water Quality Report
Cass County Sanitary Landfill
Permit No. 15-SDP-01-75C

Compliance with:	Monitoring Calendar Years									
	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
567 IAC 113.10(2)"f"(1) high and low water levels (biennial)	X	X	X	X	P	P	P	P	P	P
567 IAC 113.10(2)"f"(2) changes in the hydrologic setting and flow paths (historic = 1 per 5 years; current = biennial)	X	X	X	X	P		P		P	
567 IAC 113.10(2)"f"(3) well depths (annual)	X	X	X	X	P	P	P	P	P	P
567 IAC 113.10(2)"f"(4) well recharge rates and chemistry (biennial)		X			P		P		P	
Waste separation from ground water 113.6(2)"I"	2X	2X	2X	2X	2P	2P	2P	2P	2P	2P

X = completed
P = Planned

Table 4 – Monitoring Well Maintenance Performance Reevaluation Summary

Table 4
Monitoring Well Performance and Maintenance Summary
Annual Water Quality Report
Cass County Landfill
Permit No. 15-SDP-01-75C

Well	Top of Casing	Top of Screen	Total Depth	Datum	Date of Measurements 5/29/2024	10/14/2024	Maximum Depth Discrepancy (ft)	DRY	Initial Flow Rate* (L/min)	Recent Flow Rate (L/min) 5/29/2024	% Change
MW-15R	145.46	118.9	37.1	Groundwater Level (ft)	25.78	26.46	-0.1		0.125 7/29/2015	0.150	20%
				Groundwater Elevation (Ft MSL)	119.68	119.00					
				Measured Well Depth (ft)	37.2	37.1					
				Submerged screen	Y	Y					
MW-12	44.43	34.6	19.9	Groundwater Level (ft)	19.90	19.90	0.0	dry	0.125 7/29/2015	dry	NA
				Groundwater Elevation (Ft MSL)	24.53	24.53					
				Measured Well Depth (ft)	19.9	19.9					
				Submerged screen	N	N					
MW-19	48.60	11.9	41.7	Groundwater Level (ft)	20.64	21.41	0.0		0.125 7/29/2015	0.142	13%
				Groundwater Elevation (Ft MSL)	27.96	27.19					
				Measured Well Depth (ft)	41.7	41.7					
				Submerged screen	Y	Y					
MW-20	48.51	31.8	26.7	Groundwater Level (ft)	14.18	16.50	-0.1		0.150 7/29/2015	0.142	-6%
				Groundwater Elevation (Ft MSL)	34.33	32.01					
				Measured Well Depth (ft)	26.8	26.7					
				Submerged screen	Y	Y					
MW-21	72.98	52.8	30.1	Groundwater Level (ft)	3.56	14.05	1.2		0.125 7/29/2015	0.158	27%
				Groundwater Elevation (Ft MSL)	69.42	58.93					
				Measured Well Depth (ft)	28.9	30.1					
				Submerged screen	Y	Y					
MW-24	44.60	22.6	32.0	Groundwater Level (ft)	16.38	17.99	0.2		0.125 7/29/2015	0.167	33%
				Groundwater Elevation (Ft MSL)	28.22	26.61					
				Measured Well Depth (ft)	31.8	32.0					
				Submerged screen	Y	Y					
MW-37R	62.91	30.5	43.6	Groundwater Level (ft)	33.42	35.14	1.0		0.158 11/26/2018	0.208	32%
				Groundwater Elevation (Ft MSL)	29.49	27.77					
				Measured Well Depth (ft)	42.6	43.6					
				Submerged screen	N	N					
MW-38R	74.19	34.6	50.6	Groundwater Level (ft)	45.86	47.90	0.2		0.158 11/26/2018	0.167	6%
				Groundwater Elevation (Ft MSL)	28.33	26.29					
				Measured Well Depth (ft)	50.4	50.6					
				Submerged screen	N	N					
MW-39	111.90	99.2	32.7	Groundwater Level (ft)	19.44	14.67	0.2		0.150 7/29/2015	0.175	17%
				Groundwater Elevation (Ft MSL)	92.46	97.23					
				Measured Well Depth (ft)	32.5	32.7					
				Submerged screen	N	N					
MW-43	41.54	27.9	23.6	Groundwater Level (ft)	10.62	19.65	-0.2		0.300 7/29/2015	0.150	-50%
				Groundwater Elevation (Ft MSL)	30.92	21.89					
				Measured Well Depth (ft)	23.8	23.6					
				Submerged screen	Y	N					
MW-22	93.30	-15.5	118.8	Groundwater Level (ft)	61.85	63.60	0.9		0.300 7/29/2015	0.208	-31%
				Groundwater Elevation (Ft MSL)	31.45	29.70					
				Measured Well Depth (ft)	117.9	118.8					
				Submerged screen	N	N					
MW-11	44.62	8.6	46.0	Groundwater Level (ft)	16.84	20.04	-0.1		0.125 7/29/2015	0.167	33%
				Groundwater Elevation (Ft MSL)	27.78	24.58					
				Measured Well Depth (ft)	46.1	46.0					
				Submerged screen	Y	Y					
MW-23	69.01	16.8	62.2	Groundwater Level (ft)	40.83	41.86	0.0		0.300 7/29/2015	0.217	-28%
				Groundwater Elevation (Ft MSL)	28.18	27.15					
				Measured Well Depth (ft)	62.2	62.2					
				Submerged screen	Y	Y					
MW-36	72.22	29.7	62.8	Groundwater Level (ft)	44.05	44.36	0.1		0.300 7/29/2015	0.250	-17%
				Groundwater Elevation (Ft MSL)	28.17	27.86					
				Measured Well Depth (ft)	62.7	62.8					
				Submerged screen	N	Y					
MW-13	44.42	-35.70	90.95	Groundwater Level (ft)	16.45	16.45	0.0		0.300 7/29/2015	0.183	-39%
				Groundwater Elevation (Ft MSL)	27.97	27.97					
				Measured Well Depth (ft)	90.95	90.95					
				Submerged screen	Y	Y					

Groundwater Underdrain Piezometer

Well		Date of Measurements 5/29/2024	10/14/2024	
GWPZ-1	Bottom of waste (feet MSL)	115.27		
	Groundwater Elevation (feet MSL)		110.70	obstructed 10/14/2024?
	Separation distance (ft)		4.57	
	Groundwater Level		5.3	
	Total Depth		5.3	obstructed 10/14/2024?
	Depth Elevation	102.55		

Table 4A – Summary of Water Elevations Over Time

Table 4A
Monitoring Well Performance and Maintenance Summary
Annual Water Quality Report
Cass County Landfill
Permit No. 15-SDP-01-75P

Well	Datum	Date of Measurements		Date of Measurements		Date of Measurements		Date of Measurements		Date of Measurements	
		6/6/2018	11/26/2018	3/18/2019	12/2/2019	3/30/2020	11/17/2020	5/6/2021	10/7/2021	3/2023	9/2023
MW-15R	Groundwater Level (ft)	20.57	18.52	18.96	19.93	18.67	25.99	24.42	26.42	27.02	27.90
	Groundwater Elevation (Ft MSL)	124.89	126.94	126.50	125.53	126.79	119.47	121.04	119.04	118.44	117.56
	Measured Well Depth (ft)	37.2	37.3	37.2	37.2	37.9	37.2	37.2	37.2	37.2	37.2
	Submerged screen	Y	Y	Y	Y	Y	Y	Y	Y	N	N
MW-12	Groundwater Level (ft)	18.92	18.30	17.70	18.42	17.98	Dry	18.96	19.52	Dry	Dry
	Groundwater Elevation (Ft MSL)	25.51	26.13	26.73	26.01	26.45	NA	25.47	24.91	NA	NA
	Measured Well Depth (ft)	20.0	20.0	20.0	20.0	20.0	19.9	20.0	19.9	20.0	19.9
	Submerged screen	N	N	N	N	N	N	N	N	N	N
MW-19	Groundwater Level (ft)	16.92	15.60	15.50	16.04	15.90	18.20	18.85	19.49	20.71	21.62
	Groundwater Elevation (Ft MSL)	31.68	33.00	33.10	32.56	32.70	30.40	29.75	29.11	27.89	26.98
	Measured Well Depth (ft)	41.6	41.7	41.7	41.7	41.6	41.6	41.6	41.6	41.6	41.6
	Submerged screen	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
MW-20	Groundwater Level (ft)	15.12	13.90	12.72	14.70	12.82	16.17	14.92	15.88	12.82	16.60
	Groundwater Elevation (Ft MSL)	33.39	34.61	35.79	33.81	35.69	32.34	33.59	32.63	35.69	31.91
	Measured Well Depth (ft)	27.0	27.1	27.0	27.0	17.1	27.1	26.8	26.8	26.8	26.7
	Submerged screen	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
MW-21	Groundwater Level (ft)	3.64	0.00	6.96	5.00	4.38	14.44	8.55	13.06	12.37	13.23
	Groundwater Elevation (Ft MSL)	69.34	72.98	66.02	67.98	68.60	58.54	64.43	59.92	60.61	59.75
	Measured Well Depth (ft)	26.5	26.5	26.5	26.5	29.3	29.3	28.9	28.9	28.8	28.7
	Submerged screen	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
MW-24	Groundwater Level (ft)	3.64	0.00	6.96	5.00	4.38	14.44	15.39	15.90	16.98	18.02
	Groundwater Elevation (Ft MSL)	40.96	44.60	37.64	39.60	40.22	30.16	29.21	28.70	27.62	26.58
	Measured Well Depth (ft)	26.5	26.5	26.5	26.5	29.3	29.3	31.7	31.8	31.7	31.7
	Submerged screen	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
MW-37R	Groundwater Level (ft)	NI	29.06	29.21	30.25	29.02	30.89	32.13	32.95	34.62	36.13
	Groundwater Elevation (Ft MSL)	NI	33.85	33.70	32.66	33.89	32.02	30.78	29.96	28.49	26.78
	Measured Well Depth (ft)	NI	NM	NM	NM	42.9	42.9	NM	NM	43.9	42.6
	Submerged screen	NI	Y	Y	Y	Y	Y	Y	N	N	N
MW-38R	Groundwater Level (ft)	NI	41.82	41.51	41.75	41.21	43.06	44.68	45.62	46.62	47.37
	Groundwater Elevation (Ft MSL)	NI	32.37	32.68	32.44	32.98	31.13	29.51	28.57	27.57	26.82
	Measured Well Depth (ft)	NI	49.6	NM	NM	51.1	50.2	NM	NM	50.2	50.3
	Submerged screen	NI	N	N	N	N	N	N	N	N	N
MW-39	Groundwater Level (ft)	14.72	9.70	12.85	9.50	11.13	9.49	15.46	11.92	17.53	16.76
	Groundwater Elevation (Ft MSL)	97.18	102.20	99.05	102.40	100.77	102.41	96.44	99.98	94.37	95.14
	Measured Well Depth (ft)	32.5	32.4	32.4	32.5	32.6	32.4	32.5	32.5	32.4	32.4
	Submerged screen	N	Y	N	Y	Y	Y	N	Y	N	N
MW-22	Groundwater Level (ft)	58.21	57.50	57.50	57.70	57.94	61.10	61.43	61.92	63.23	64.19
	Groundwater Elevation (Ft MSL)	35.09	35.80	35.80	35.60	35.36	32.20	31.87	31.38	30.07	29.11
	Measured Well Depth (ft)	NM	NM	NM	NM	121.9	119.4	NM	NM	NM	NM
	Submerged screen	N	N	N	N	Y	Y	N	N	Y	Y
MW-11	Groundwater Level (ft)	15.37	16.22	15.11	16.80	15.32	17.77	17.78	18.33	19.02	19.68
	Groundwater Elevation (Ft MSL)	29.25	28.40	29.51	27.82	29.30	26.85	26.84	26.29	25.60	24.94
	Measured Well Depth (ft)	46.1	46.2	46.1	46.1	46.6	46.0	46.1	46.0	46.0	45.8
	Submerged screen	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
MW-23	Groundwater Level (ft)	37.27	36.43	36.20	36.50	36.43	38.26	39.13	39.56	40.88	41.67
	Groundwater Elevation (Ft MSL)	31.74	32.58	32.81	32.51	32.58	30.75	29.88	29.45	28.13	27.34
	Measured Well Depth (ft)	NM	NM	NM	NM	61.3	61.1	NM	NM	NM	NM
	Submerged screen	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
MW-36	Groundwater Level (ft)	40.60	39.69	39.10	39.65	39.84	42.18	42.79	43.38	44.30	43.93
	Groundwater Elevation (Ft MSL)	31.62	32.53	33.12	32.57	32.38	30.04	29.43	28.84	28.13	28.29
	Measured Well Depth (ft)	NM	NM	NM	62.9	62.8	62.8	NM	NM	57.6	62.5
	Submerged screen	Y	Y	Y	Y	Y	Y	N	N	N	N
MW-43	Groundwater Level (ft)	40.60	39.69	39.10	39.65	39.84	42.18	16.34	18.49	18.73	19.42
	Groundwater Elevation (Ft MSL)	0.94	1.85	2.44	1.89	1.70	-0.64	25.20	23.05	22.81	22.12
	Measured Well Depth (ft)	NM	NM	NM	62.9	62.8	62.8	23.7	23.7	23.8	23.7
	Submerged screen	N	N	N	N	N	N	N	N	N	N

Table 5 –Prediction Limits and GWPS Summary (Interwell Statistics)

Table 5
Background and GWPS Summary - Interwell
Annual Water Quality Report
Cass County Sanitary Landfill
Permit No. 15-SDP-01-75C

Unconsolidated Till

Interwell Background/(MW-15R)

Inorganics - Appendix I										
Constituent	**Units**	**Model Type**	**Samples - N**	**Detections**	**Mean**	**SD**	**Prediction Limit**	**Confidence**	**GWPS**	**Source**
Antimony (Sb)	µg/l	nonparametric	32	0			2.0000	0.99	6	SS
Arsenic (As)	µg/l	nonparametric	32	5			9.1300	0.99	10	SS
Barium (Ba)	µg/l	normal	32	32	193.3750	77.47	386.3237		2000	SS
Beryllium (Be)	µg/l	nonparametric	32	0			1.0000	0.99	4	SS
Cadmium (Cd)	µg/l	nonparametric	32	9			1.2500	0.99	5	SS
Chromium (Cr)	µg/l	nonparametric	32	0			5.0000	0.99	100	SS
Cobalt (Co)	µg/l	nonparametric	32	5			**4.2000**	0.99	**4.2**	**Site**
Copper (Cu)	µg/l	nonparametric	32	0			5.0000	0.99	1300	SS
Lead (Pb)	µg/l	nonparametric	32	1			0.5180	0.99	15	SS
Nickel (Ni)	µg/l	nonparametric	32	1			6.3000	0.99	100	SS
Selenium (Se)	µg/l	nonparametric	32	0			5.0000	0.99	50	SS
Silver (Ag)	µg/l	nonparametric	32	0			1.0000	0.99	100	SS
Thallium (Tl)	µg/l	nonparametric	32	0			1.0000	0.99	2	SS
Vanadium (V)	µg/l	nonparametric	32	0			5.0000	0.99	35	SS
Zinc (Zn)	µg/l	nonparametric	32	8			185.0000	0.99	2000	SS
VOC - Appendix I										
Constituent	**Units**	**Model Type**	**Samples - N**	**Detections**	**Mean**	**SD**	**Prediction Limit**	**Confidence**	**GWPS**	**Source**
All	µg/l	DQR	32	0	<1	<1	<1		various	SS

(yellow) = Prediction limit exceeds the GWPS. A Site-Specific GWPS equal to the Prediction Limit is used.

Dakota Sandstone

Table 5A –Control Limits and GWPS Summary (Intrawell Statistics)

Table 5A
Background Data Summary Tables - Control Limits
Annual Water Quality Report
Cass County Landfill
Permit No. 15-SDP-01-75C

(Control/Prediction Limits that exceed the Statewide Standard are highlighted yellow)
(Site Specific GWPS that vary from the Statewide Standard are in red text)

Monitoring Point	Compound	Units	IAC 567-137 Statewide Standards	Intrawell Statistical Control Limit	Site-Specific GWPS Utilized
MW-11	Antimony, total	ug/L	6	3.50	6
MW-11	Arsenic, total	ug/L	10	29.80	29.80
MW-11	Barium, total	ug/L	2000	2006.11	2006.11
MW-11	Beryllium, total	ug/L	4	1.00	4
MW-11	Cadmium, totall	ug/L	5	12.53	12.53
MW-11	Chromium, total	ug/L	100	5.00	100
MW-11	Cobalt, total	ug/L	2.1	144.63	144.63
MW-11	Copper, total	ug/L	1300	28.30	1300
MW-11	Lead, total	ug/L	15	7.42	15
MW-11	Nickel, total	ug/L	100	183.14	183.14
MW-11	Selenium, total	ug/L	50	6.72	50
MW-11	Silver, total	ug/L	100	2.61	100
MW-11	Thallium, total	ug/L	2	2.00	2
MW-11	Vanadium, total	ug/L	35	5.00	35
MW-11	Zinc, total	ug/L	2000	220.52	2000.00

Table 5A
Background Data Summary Tables - Control Limits
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(Control/Prediction Limits that exceed the Statewide Standard are highlighted yellow)
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Monitoring Point	Compound	Units	IAC 567-137 Statewide Standards	Intrawell Statistical Control Limit	Site-Specific GWPS Utilized
MW-15R	Antimony, total	ug/L	6	2.00	6
MW-15R	Arsenic, total	ug/L	10	4.50	10
MW-15R	Barium, total	ug/L	2000	607.06	2000
MW-15R	Beryllium, total	ug/L	4	1.00	4
MW-15R	Cadmium, totall	ug/L	5	2.88	5
MW-15R	Chromium, total	ug/L	100	5.00	100
MW-15R	Cobalt, total	ug/L	2.1	2.00	2.1
MW-15R	Copper, total	ug/L	1300	5.00	1300
MW-15R	Lead, total	ug/L	15	0.52	15
MW-15R	Nickel, total	ug/L	100	5.00	100
MW-15R	Selenium, total	ug/L	50	5.00	50
MW-15R	Silver, total	ug/L	100	1.00	100
MW-15R	Thallium, total	ug/L	2	1.00	2
MW-15R	Vanadium, total	ug/L	35	5.00	35
MW-15R	Zinc, total	ug/L	2000	277.51	2000

Table 5A
Background Data Summary Tables - Control Limits
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Monitoring Point	Compound	Units	IAC 567-137 Statewide Standards	Intrawell Statistical Control Limit	Site-Specific GWPS Utilized
MW-19	Antimony, total	ug/L	6	2.00	6
MW-19	Arsenic, total	ug/L	10	11.69	11.69
MW-19	Barium, total	ug/L	2000	2542.20	2542.20
MW-19	Beryllium, total	ug/L	4	1.61	4
MW-19	Cadmium, totall	ug/L	5	52.50	52.50
MW-19	Chromium, total	ug/L	100	39.40	100
MW-19	Cobalt, total	ug/L	2.1	59.56	59.56
MW-19	Copper, total	ug/L	1300	23.20	1300
MW-19	Lead, total	ug/L	15	36.39	36.39
MW-19	Nickel, total	ug/L	100	151.12	151.12
MW-19	Selenium, total	ug/L	50	5.00	50
MW-19	Silver, total	ug/L	100	1.00	100
MW-19	Thallium, total	ug/L	2	2.00	2
MW-19	Vanadium, total	ug/L	35	53.20	53.20
MW-19	Zinc, total	ug/L	2000	263.40	2000

Table 5A
Background Data Summary Tables - Control Limits
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Monitoring Point	Compound	Units	IAC 567-137 Statewide Standards	Intrawell Statistical Control Limit	Site-Specific GWPS Utilized
MW-20	Antimony, total	ug/L	6	6.45	6.45
MW-20	Arsenic, total	ug/L	10	265.52	22.50
MW-20	Barium, total	ug/L	2000	9818.71	9818.71
MW-20	Beryllium, total	ug/L	4	1.00	4
MW-20	Cadmium, totall	ug/L	5	19.10	19.0953
MW-20	Chromium, total	ug/L	100	24.20	100
MW-20	Cobalt, total	ug/L	2.1	72.87	72.87
MW-20	Copper, total	ug/L	1300	33.40	1300
MW-20	Lead, total	ug/L	15	39.63	39.628
MW-20	Nickel, total	ug/L	100	344.87	344.87
MW-20	Selenium, total	ug/L	50	5.00	50
MW-20	Silver, total	ug/L	100	1.00	100
MW-20	Thallium, total	ug/L	2	2.00	2
MW-20	Vanadium, total	ug/L	35	4.60	35
MW-20	Zinc, total	ug/L	2000	660.73	2000

Table 5A
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Cass County Landfill
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(Control/Prediction Limits that exceed the Statewide Standard are highlighted yellow)
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Monitoring Point	Compound	Units	IAC 567-137 Statewide Standards	Intrawell Statistical Control Limit	Site-Specific GWPS Utilized
MW-21	Antimony, total	ug/L	6	2.00	6
MW-21	Arsenic, total	ug/L	10	8.10	8.10
MW-21	Barium, total	ug/L	2000	2767.13	2767.13
MW-21	Beryllium, total	ug/L	4	1.23	4
MW-21	Cadmium, totall	ug/L	5	18.65	18.65
MW-21	Chromium, total	ug/L	100	68.50	100
MW-21	Cobalt, total	ug/L	2.1	70.58	70.58
MW-21	Copper, total	ug/L	1300	21.10	1300
MW-21	Lead, total	ug/L	15	9.30	15
MW-21	Nickel, total	ug/L	100	271.20	271.20
MW-21	Selenium, total	ug/L	50	13.20	50
MW-21	Silver, total	ug/L	100	1.00	100
MW-21	Thallium, total	ug/L	2	2.30	2.3
MW-21	Vanadium, total	ug/L	35	409.00	409
MW-21	Zinc, total	ug/L	2000	598.98	2000

Table 5A
Background Data Summary Tables - Control Limits
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Cass County Landfill
Permit No. 15-SDP-01-75C

(Control/Prediction Limits that exceed the Statewide Standard are highlighted yellow)
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Monitoring Point	Compound	Units	IAC 567-137 Statewide Standards	Intrawell Statistical Control Limit	Site-Specific GWPS Utilized
MW-22	Antimony, total	ug/L	6	6.51	6.51
MW-22	Arsenic, total	ug/L	10	1.35	10
MW-22	Barium, total	ug/L	2000	373.20	2000
MW-22	Beryllium, total	ug/L	4	1.00	4
MW-22	Cadmium, totall	ug/L	5	1.58	5
MW-22	Chromium, total	ug/L	100	5.00	100
MW-22	Cobalt, total	ug/L	2.1	1.73	2.1
MW-22	Copper, total	ug/L	1300	16.40	1300
MW-22	Lead, total	ug/L	15	1.00	15
MW-22	Nickel, total	ug/L	100	10.75	100
MW-22	Selenium, total	ug/L	50	5.00	50
MW-22	Silver, total	ug/L	100	1.00	100
MW-22	Thallium, total	ug/L	2	1.00	2
MW-22	Vanadium, total	ug/L	35	3.00	35
MW-22	Zinc, total	ug/L	2000	34.10	2000

Table 5A
Background Data Summary Tables - Control Limits
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Permit No. 15-SDP-01-75C

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(Site Specific GWPS that vary from the Statewide Standard are in red text)

Monitoring Point	Compound	Units	IAC 567-137 Statewide Standards	Intrawell Statistical Control Limit	Site-Specific GWPS Utilized
MW-23	Antimony, total	ug/L	6	6.00	6
MW-23	Arsenic, total	ug/L	10	6.25	10
MW-23	Barium, total	ug/L	2000	481.17	2000
MW-23	Beryllium, total	ug/L	4	1.37	4
MW-23	Cadmium, totall	ug/L	5	10.68	10.68
MW-23	Chromium, total	ug/L	100	5.00	100
MW-23	Cobalt, total	ug/L	2.1	11.55	11.55
MW-23	Copper, total	ug/L	1300	5.00	1300
MW-23	Lead, total	ug/L	15	6.95	15
MW-23	Nickel, total	ug/L	100	5.00	100
MW-23	Selenium, total	ug/L	50	21.60	50
MW-23	Silver, total	ug/L	100	1.00	100
MW-23	Thallium, total	ug/L	2	2.00	2
MW-23	Vanadium, total	ug/L	35	5.00	35
MW-23	Zinc, total	ug/L	2000	129.91	2000

Table 5A
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Monitoring Point	Compound	Units	IAC 567-137 Statewide Standards	Intrawell Statistical Control Limit	Site-Specific GWPS Utilized
MW-24	Antimony, total	ug/L	6		6
MW-24	Arsenic, total	ug/L	10	88.09	88.09
MW-24	Barium, total	ug/L	2000	2209.75	2209.75
MW-24	Beryllium, total	ug/L	4		4
MW-24	Cadmium, totall	ug/L	5	2.55	5
MW-24	Chromium, total	ug/L	100		100
MW-24	Cobalt, total	ug/L	2.1	89.08	89.08
MW-24	Copper, total	ug/L	1300		1300
MW-24	Lead, total	ug/L	15		15
MW-24	Nickel, total	ug/L	100	102.55	102.55
MW-24	Selenium, total	ug/L	50		50
MW-24	Silver, total	ug/L	100		100
MW-24	Thallium, total	ug/L	2		2
MW-24	Vanadium, total	ug/L	35		35
MW-24	Zinc, total	ug/L	2000		2000

Table 5A
Background Data Summary Tables - Control Limits
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(Control/Prediction Limits that exceed the Statewide Standard are highlighted yellow)
(Site Specific GWPS that vary from the Statewide Standard are in red text)

Monitoring Point	Compound	Units	IAC 567-137 Statewide Standards	Intrawell Statistical Control Limit	Site-Specific GWPS Utilized
MW-36	Antimony, total	ug/L	6	7.08	7.08
MW-36	Arsenic, total	ug/L	10	12.83	12.83
MW-36	Barium, total	ug/L	2000	5986.87	5986.87
MW-36	Beryllium, total	ug/L	4	70.88	70.88
MW-36	Cadmium, totall	ug/L	5	36.81	36.81
MW-36	Chromium, total	ug/L	100	8.38	100
MW-36	Cobalt, total	ug/L	2.1	871.26	871.26
MW-36	Copper, total	ug/L	1300	357.64	1300
MW-36	Lead, total	ug/L	15	481.05	481.05
MW-36	Nickel, total	ug/L	100	921.29	921.29
MW-36	Selenium, total	ug/L	50	13.20	50
MW-36	Silver, total	ug/L	100	1.00	100
MW-36	Thallium, total	ug/L	2	3.40	3.40
MW-36	Vanadium, total	ug/L	35	1059.07	1059.07
MW-36	Zinc, total	ug/L	2000	1357.81	2000

Table 5A
Background Data Summary Tables - Control Limits
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Cass County Landfill
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Monitoring Point	Compound	Units	IAC 567-137 Statewide Standards	Intrawell Statistical Control Limit	Site-Specific GWPS Utilized
MW-37R	Antimony, total	ug/L	6	1.53	6
MW-37R	Arsenic, total	ug/L	10	1.21	10
MW-37R	Barium, total	ug/L	2000	1365.21	2000
MW-37R	Beryllium, total	ug/L	4	1.00	4
MW-37R	Cadmium, totall	ug/L	5	0.86	5
MW-37R	Chromium, total	ug/L	100	5.00	100
MW-37R	Cobalt, total	ug/L	2.1	4.95	4.95
MW-37R	Copper, total	ug/L	1300	3.70	1300
MW-37R	Lead, total	ug/L	15	9.35	15
MW-37R	Nickel, total	ug/L	100	23.00	100
MW-37R	Selenium, total	ug/L	50	111.64	111.64
MW-37R	Silver, total	ug/L	100	1.00	100
MW-37R	Thallium, total	ug/L	2	1.00	2
MW-37R	Vanadium, total	ug/L	35	8.29	35
MW-37R	Zinc, total	ug/L	2000	20.00	2000

Table 5A
Background Data Summary Tables - Control Limits
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(Control/Prediction Limits that exceed the Statewide Standard are highlighted yellow)
(Site Specific GWPS that vary from the Statewide Standard are in red text)

Monitoring Point	Compound	Units	IAC 567-137 Statewide Standards	Intrawell Statistical Control Limit	Site-Specific GWPS Utilized
MW-38R	Antimony, total	ug/L	6	2.00	6
MW-38R	Arsenic, total	ug/L	10		10
MW-38R	Barium, total	ug/L	2000	1536.97	2000
MW-38R	Beryllium, total	ug/L	4	1.00	4
MW-38R	Cadmium, totall	ug/L	5	0.97	5
MW-38R	Chromium, total	ug/L	100		100
MW-38R	Cobalt, total	ug/L	2.1	9.63	9.63
MW-38R	Copper, total	ug/L	1300	5.88	1300
MW-38R	Lead, total	ug/L	15	0.68	15
MW-38R	Nickel, total	ug/L	100	26.08	100
MW-38R	Selenium, total	ug/L	50	93.59	93.59
MW-38R	Silver, total	ug/L	100	1.00	100
MW-38R	Thallium, total	ug/L	2	1.00	2
MW-38R	Vanadium, total	ug/L	35	1.54	35
MW-38R	Zinc, total	ug/L	2000	20.00	2000

Table 5A
Background Data Summary Tables - Control Limits
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Cass County Landfill
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(Site Specific GWPS that vary from the Statewide Standard are in red text)

Monitoring Point	Compound	Units	IAC 567-137 Statewide Standards	Intrawell Statistical Control Limit	Site-Specific GWPS Utilized
MW-39	Antimony, total	ug/L	6	2.00	6
MW-39	Arsenic, total	ug/L	10	2.00	10
MW-39	Barium, total	ug/L	2000	188.26	2000
MW-39	Beryllium, total	ug/L	4	1.00	4
MW-39	Cadmium, totall	ug/L	5	5.51	5.51
MW-39	Chromium, total	ug/L	100	5.28	100
MW-39	Cobalt, total	ug/L	2.1	15.60	15.60
MW-39	Copper, total	ug/L	1300	5.00	1300
MW-39	Lead, total	ug/L	15	11.50	15
MW-39	Nickel, total	ug/L	100	5.00	100
MW-39	Selenium, total	ug/L	50	193.27	193.27
MW-39	Silver, total	ug/L	100	1.00	100
MW-39	Thallium, total	ug/L	2	3.32	3.32
MW-39	Vanadium, total	ug/L	35	5.00	35
MW-39	Zinc, total	ug/L	2000	90.40	2000

Table 5A
Background Data Summary Tables - Control Limits
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Monitoring Point	Compound	Units	IAC 567-137 Statewide Standards	Intrawell Statistical Control Limit	Site-Specific GWPS Utilized
MW-43	Antimony, total	ug/L	6		6
MW-43	Arsenic, total	ug/L	10		10
MW-43	Barium, total	ug/L	2000		2000
MW-43	Beryllium, total	ug/L	4		4
MW-43	Cadmium, totall	ug/L	5		5
MW-43	Chromium, total	ug/L	100		100
MW-43	Cobalt, total	ug/L	2.1	208.19	208.19
MW-43	Copper, total	ug/L	1300		1300
MW-43	Lead, total	ug/L	15		15
MW-43	Nickel, total	ug/L	100		100
MW-43	Selenium, total	ug/L	50		50
MW-43	Silver, total	ug/L	100		100
MW-43	Thallium, total	ug/L	2		2
MW-43	Vanadium, total	ug/L	35		35
MW-43	Zinc, total	ug/L	2000		2000

Table 5A
Background Data Summary Tables - Control Limits
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Monitoring Point	Compound	Units	IAC 567-137 Statewide Standards	Intrawell Statistical Control Limit	Site-Specific GWPS Utilized
MW-13	Antimony, total	ug/L	6		6
MW-13	Arsenic, total	ug/L	10		10
MW-13	Barium, total	ug/L	2000		2000
MW-13	Beryllium, total	ug/L	4		4
MW-13	Cadmium, totall	ug/L	5		5
MW-13	Chromium, total	ug/L	100		100
MW-13	Cobalt, total	ug/L	2.1		2.1
MW-13	Copper, total	ug/L	1300		1300
MW-13	Lead, total	ug/L	15		15
MW-13	Nickel, total	ug/L	100		100
MW-13	Selenium, total	ug/L	50		50
MW-13	Silver, total	ug/L	100		100
MW-13	Thallium, total	ug/L	2		2
MW-13	Vanadium, total	ug/L	35		35
MW-13	Zinc, total	ug/L	2000		2000

Note: Control limit is left blank where insufficient data is available.

Table 6 – Summary of Detections Exceeding Prediction Limits (Interwell Statistics)

Table 6
Summary of Well/Detected Constituent Pairs that Exceed the Prediction Limit
Annual Water Quality Report
Cass County Sanitary Landfill
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INTERWELL Statistical Evaluation **(see also Spring Notification (Doc # 110964) dated 9/272024)**

Well	Constituent	Date	Most recent result (ug/L)	Background Standard (ug/L)	Monitoring Program
Unconsolidated					
MW-39	~~Selenium~~	~~5/29/2024~~	~~71.4~~	5	*Detection Monitoring Well - not a landfill source*
MW-39	~~Selenium~~	~~10/15/2024~~	~~63.6~~	5	*Detection Monitoring Well - see Doc 97998*
MW-38R	Arsenic	10/15/2024	15.7	9.13	Assessment Monitoring Well
MW-38R	Chromium	5/29/2024	177	5	Assessment Monitoring Well
MW-38R	Chromium	10/15/2024	218	5	Assessment Monitoring Well
MW-38R	~~Cobalt~~	~~10/15/2024~~	~~16.8~~	49.62(1)	Assessment Monitoring Well
MW-38R	Copper	5/29/2024	5.88	5	Assessment Monitoring Well
MW-38R	Copper	10/15/2024	23.9	5	Assessment Monitoring Well
MW-38R	Lead	10/15/2024	14.5	0.518	Assessment Monitoring Well
MW-38R	Nickel	5/29/2024	135	6.3	Assessment Monitoring Well
MW-38R	Nickel	10/15/2024	145	6.3	Assessment Monitoring Well
MW-38R	Selenium	5/29/2024	43.2	5	Assessment Monitoring Well
MW-38R	Selenium	10/15/2024	7.8	5	Assessment Monitoring Well
MW-38R	Vanadium	10/15/2024	59.3	5	Assessment Monitoring Well
MW-37R	Barium	5/29/2024	686	386.32	Assessment Monitoring Well
MW-37R	Barium	10/15/2024	751	386.32	Assessment Monitoring Well
MW-37R	Lead	5/29/2024	2.16	0.518	Assessment Monitoring Well
MW-37R	Selenium	5/29/2024	40.5	5	Assessment Monitoring Well
MW-37R	Selenium	10/15/2024	15.8	5	Assessment Monitoring Well
MW-24	Arsenic	10/15/2024	9.9	9.13	AZPOC - Assessment Monitoring Well
MW-24	Barium	5/29/2024	581	386.32	AZPOC - Assessment Monitoring Well
MW-24	Barium	10/15/2024	700	386.32	AZPOC - Assessment Monitoring Well
MW-24	~~Cobalt~~	~~10/15/2024~~	~~4.3~~	49.62(1)	AZPOC - Assessment Monitoring Well
MW-24	Nickel	5/29/2024	30.5	6.3	AZPOC - Assessment Monitoring Well
MW-24	Nickel	10/15/2024	32.7	6.3	AZPOC - Assessment Monitoring Well
MW-21	Barium	5/29/2024	1110	386.32	Assessment Monitoring Well
MW-21	Barium	10/15/2024	1170	386.32	Assessment Monitoring Well
MW-21	~~Cobalt~~	~~5/29/2024~~	~~7.15~~	49.62(1)	Assessment Monitoring Well
MW-21	~~Cobalt~~	~~10/15/2024~~	~~13.4~~	49.62(1)	Assessment Monitoring Well
MW-21	Copper	10/15/2024	7.4	5	Assessment Monitoring Well
MW-21	Nickel	5/29/2024	11.7	6.3	Assessment Monitoring Well
MW-21	Nickel	10/15/2024	27.2	6.3	Assessment Monitoring Well
MW-20	Arsenic	5/29/2024	112.5	9.13	Supplemental Source Well
MW-20	Arsenic	10/15/2024	77.5	9.13	Supplemental Source Well
MW-20	Barium	5/29/2024	1640	386.32	Supplemental Source Well
MW-20	Barium	10/15/2024	2430	386.32	Supplemental Source Well
MW-20	~~Cobalt~~	~~5/29/2024~~	~~8.04~~	49.62(1)	Supplemental Source Well
MW-20	~~Cobalt~~	~~10/15/2024~~	~~9.9~~	49.62(1)	Supplemental Source Well
MW-20	Nickel	5/29/2024	14.4	6.3	Supplemental Source Well
MW-20	Nickel	10/15/2024	50.8	6.3	Supplemental Source Well
MW-20	1,4-dichlorobenzene	10/15/2024	3.1	1.0	Supplemental Source Well
MW-20	benzene	10/15/2024	3.0	1.0	Supplemental Source Well
MW-20	chlorobenzene	10/15/2024	4.7	1.0	Supplemental Source Well
MW-20	Endosulfan I	10/15/2024	0.13	0.05	Supplemental Source Well
MW-19	Barium	5/29/2024	1070	386.32	Assessment Monitoring Well
MW-19	Barium	10/15/2024	966	386.32	Assessment Monitoring Well
MW-19	~~Cobalt~~	~~5/29/2024~~	~~23.4~~	49.62(1)	Assessment Monitoring Well
MW-19	~~Cobalt~~	~~10/15/2024~~	~~19.5~~	49.62(1)	Assessment Monitoring Well
MW-19	Nickel	5/29/2024	59.6	6.3	Assessment Monitoring Well
MW-19	Nickel	10/15/2024	55.7	6.3	Assessment Monitoring Well
MW-19	Chlorobenzene	10/15/2024	1.2	1.0	Assessment Monitoring Well
Dakota Sandstone					
MW-11	Arsenic	5/29/2024	5.17	9.13	Supplemental Source Well
MW-11	Arsenic	10/15/2024	6.60	9.13	Supplemental Source Well
MW-11	Barium	5/29/2024	496	386.3237	Supplemental Source Well
MW-11	Barium	10/15/2024	346	386.3237	Supplemental Source Well
MW-11	Cobalt	5/29/2024	6.63	3.981(2)	Supplemental Source Well
MW-11	~~Cobalt~~	~~10/15/2024~~	~~3.00~~	3.981(2)	Supplemental Source Well

Notes *UD-0 and UD-1 were dry 5/9/2024 & 10/15/2024*
MW-12 was dry 5/9/2024 & 10/15/2024
MW-13 (vertical) and MW-43 (horizontal) are step-out AZPOC wells to MW-12
MW-24 is a step-out AZPOC well to MW-20
Document 97998 established that the selenium at MW-39 was not from a landfill source (approved Doc 98498)

(1) *Document 110964 established the GWPS for cobalt in the unconsolidated tills at 49.62 ug/L.*

(2) *Document 110964 established the GWPS for cobalt in the Dakota Sandstone at 3.981 ug/L.*

Table 6A – Summary of Detections Exceeding Control Limits (Intrawell Statistics)

Table 6A
Summary of Well/Detected Constituent Pairs that Exceed the Prediction Limit
Annual Water Quality Report
Cass County Sanitary Landfill
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INTRAWELL Statistical Evaluation **(see also Spring Notification (Doc # 110964) dated 9/272024)**

Well	Constituent	Date	Most recent result (ug/L)	Background Standard (ug/L)	Monitoring Program
Unconsolidated					
MW-38R	Cobalt	10/15/2024	16.8	9.626	Assessment Monitoring Well
MW-38R	Copper	10/15/2024	23.9	5.88	Assessment Monitoring Well
MW-38R	Lead	10/15/2024	14.5	0.684	Assessment Monitoring Well
MW-38R	Nickel	5/29/2024	135	26.0791	Assessment Monitoring Well
MW-38R	Nickel	10/15/2024	145	26.0791	Assessment Monitoring Well
MW-38R	Vanadium	10/15/2024	59.3	1.54	Assessment Monitoring Well
MW-38R	Zinc	10/15/2024	44	20	Assessment Monitoring Well

Notes Intrawell Control Limits are pending for arsenic and chromium at MW-38R
UD-0 and UD-1 were dry 5/9/2024 & 10/15/2024
MW-12 was dry 5/9/2024 & 10/15/2024
MW-13 (vertical) and MW-43 (horizontal) are step-out AZPOC wells to MW-12
MW-24 is a step-out AZPOC well to MW-20

Table 7 – Summary of Ongoing and Newly Identified SSI

Table 7
Summary of Ongoing & Newly Identified SSI
Annual Water Quality Report
Cass County Sanitary Landfill
Permit No. 15-SDP-01-75C

KEY:	Interwell SSI	Intrawell SSI	SSL LCL>GWPS	SSL UCL>GWPS

Note: The absence of shading indicates that the condition does not exist.

Monitoring Well	Compound	Sample Date	Each Result (ug/L)	Interwell Prediction Limit (ug/L)	Each Result (ug/L)	Intrawell Control Limit (ug/L)	95% LCL (ug/L)	95% UCL (ug/L)	GWPS Limit (ug/L)	SSI Initial Exceedance	Resamples Due	5th Background Sample
MW-11	Arsenic	11/26/2018	**3.74**	1.35	**3.74**	29.80	--	--	10	10/15/2024	NA	12/2/2019
MW-11	Arsenic	3/18/2019	**2.51**	1.35	**2.51**	29.80	--	--	10	10/15/2024	NA	12/2/2019
MW-11	Arsenic	12/2/2019	**2.19**	1.35	**2.19**	29.80	--	--	10	10/15/2024	NA	12/2/2019
MW-11	Arsenic	3/30/2020	**2.13**	1.35	**2.13**	29.80	--	--	10	10/15/2024	NA	12/2/2019
MW-11	Arsenic	11/17/2020	**3.91**	1.35	**3.91**	29.80	--	--	10	10/15/2024	NA	12/2/2019
MW-11	Arsenic	5/6/2021	**2.83**	1.35	**2.83**	29.80	--	--	10	10/15/2024	NA	12/2/2019
MW-11	Arsenic	10/7/2021	**11.00**	1.35	**11.00**	29.80	--	--	10	10/15/2024	NA	12/2/2019
MW-11	Arsenic	4/6/2022	**7.53**	1.35	**7.53**	29.80	--	--	10	10/15/2024	NA	12/2/2019
MW-11	Arsenic	8/23/2022	**2.30**	1.35	**2.30**	29.80	--	--	10	10/15/2024	NA	12/2/2019
MW-11	Arsenic	3/8/2023	**13.50**	1.35	**13.50**	29.80	--	--	10	10/15/2024	NA	12/2/2019
MW-11	Arsenic	9/13/2023	**14.50**	1.35	**14.50**	29.80	--	--	10	10/15/2024	NA	12/2/2019
MW-11	Arsenic	5/29/2024	**5.17**	1.35	**5.17**	29.80	2.457	12.730	10	10/15/2024	NA	12/2/2019
MW-11	Arsenic	10/15/2024	**6.60**	1.35	**6.60**	29.80	4.368	15.517	10	10/15/2024	NA	12/2/2019

Table 7
Summary of Ongoing & Newly Identified SSI
Annual Water Quality Report
Cass County Sanitary Landfill
Permit No. 15-SDP-01-75C

KEY:	Interwell SSI	Intrawell SSI	SSL LCL>GWPS	SSL UCL>GWPS

Note: The absence of shading indicates that the condition does not exist.

Monitoring Well	Compound	Sample Date	Each Result (ug/L)	Interwell Prediction Limit (ug/L)	Each Result (ug/L)	Intrawell Control Limit (ug/L)	95% LCL (ug/L)	95% UCL (ug/L)	GWPS Limit (ug/L)	SSI Initial Exceedance	Resamples Due	5th Background Sample
MW-11	Barium	11/26/2018	**462**	293.2723	**462**	2006.11	--	--	2000	10/15/2024	NA	12/2/2019
MW-11	Barium	3/18/2019	**456**	293.2723	**456**	2006.11	--	--	2000	10/15/2024	NA	12/2/2019
MW-11	Barium	12/2/2019	**410**	293.2723	**410**	2006.11	--	--	2000	10/15/2024	NA	12/2/2019
MW-11	Barium	3/30/2020	**416**	293.2723	**416**	2006.11	--	--	2000	10/15/2024	NA	12/2/2019
MW-11	Barium	11/17/2020	**397**	293.2723	**397**	2006.11	--	--	2000	10/15/2024	NA	12/2/2019
MW-11	Barium	5/6/2021	**465**	293.2723	**465**	2006.11	--	--	2000	10/15/2024	NA	12/2/2019
MW-11	Barium	10/7/2021	**571**	293.2723	**571**	2006.11	--	--	2000	10/15/2024	NA	12/2/2019
MW-11	Barium	4/6/2022	**544**	293.2723	**544**	2006.11	--	--	2000	10/15/2024	NA	12/2/2019
MW-11	Barium	8/23/2022	**419**	293.2723	**419**	2006.11	--	--	2000	10/15/2024	NA	12/2/2019
MW-11	Barium	3/8/2023	**745**	293.2723	**745**	2006.11	--	--	2000	10/15/2024	NA	12/2/2019
MW-11	Barium	9/13/2023	**636**	293.2723	**636**	2006.11	--	--	2000	10/15/2024	NA	12/2/2019
MW-11	Barium	5/29/2024	**496**	293.2723	**496**	2006.11	410.900	657.300	2000	10/15/2024	NA	12/2/2019
MW-11	Barium	10/15/2024	**346**	293.2723	**346**	2006.11	352.214	759.286	2000	10/15/2024	NA	12/2/2019

Table 7
Summary of Ongoing & Newly Identified SSI
Annual Water Quality Report
Cass County Sanitary Landfill
Permit No. 15-SDP-01-75C

KEY:	Interwell SSI	Intrawell SSI	SSL LCL>GWPS	SSL UCL>GWPS

Note: The absence of shading indicates that the condition does not exist.

Monitoring Well	Compound	Sample Date	Each Result (ug/L)	Interwell Prediction Limit (ug/L)	Each Result (ug/L)	Intrawell Control Limit (ug/L)	95% LCL (ug/L)	95% UCL (ug/L)	GWPS Limit (ug/L)	SSI Initial Exceedance	Resamples Due	5th Background Sample
MW-11	Cobalt	11/26/2018	**4.58**	1.73	**4.58**	144.630	--	--	3.981[1]	10/15/2024	NA	12/2/2019
MW-11	Cobalt	3/18/2019	**4.10**	1.73	**4.10**	144.630	--	--	3.981[1]	10/15/2024	NA	12/2/2019
MW-11	Cobalt	12/2/2019	**3.54**	1.73	**3.54**	144.630	--	--	3.981[1]	10/15/2024	NA	12/2/2019
MW-11	Cobalt	3/30/2020	**3.29**	1.73	**3.29**	144.630	--	--	3.981[1]	10/15/2024	NA	12/2/2019
MW-11	Cobalt	11/17/2020	**9.93**	1.73	**9.93**	144.630	--	--	3.981[1]	10/15/2024	NA	12/2/2019
MW-11	Cobalt	5/6/2021	**9.32**	1.73	**9.32**	144.630	--	--	3.981[1]	10/15/2024	NA	12/2/2019
MW-11	Cobalt	10/7/2021	**14.80**	1.73	**14.80**	144.630	--	--	3.981[1]	10/15/2024	NA	12/2/2019
MW-11	Cobalt	4/6/2022	**10.70**	1.73	**10.70**	144.630	--	--	3.981[1]	10/15/2024	NA	12/2/2019
MW-11	Cobalt	8/23/2022	**6.19**	1.73	**6.19**	144.630	--	--	3.981[1]	10/15/2024	NA	12/2/2019
MW-11	Cobalt	3/8/2023	**13.40**	1.73	**13.40**	144.630	--	--	3.981[1]	10/15/2024	NA	12/2/2019
MW-11	Cobalt	9/13/2023	**11.30**	1.73	**11.30**	144.630	5.927	13.8	3.981[1]	10/15/2024	NA	12/2/2019
MW-11	Cobalt	5/29/2024	**6.63**	1.73	**6.63**	144.630	7.116	13.45	3.981[1]	10/15/2024	NA	12/2/2019
MW-11	Cobalt	10/15/2024	**3.00**	1.73	**3.00**	144.630	3.083	14.082	3.981[1]	10/15/2024	NA	12/2/2019

[1] The background water quality for the site should be reevaluated with consideration for additional existing wells to be included in the background (beyond MW-22). The new prediction limit may exceed the Statewide Standard (GWPS).

Table 7
Summary of Ongoing & Newly Identified SSI
Annual Water Quality Report
Cass County Sanitary Landfill
Permit No. 15-SDP-01-75C

KEY:	Interwell SSI	Intrawell SSI	SSL LCL>GWPS	SSL UCL>GWPS

Note: The absence of shading indicates that the condition does not exist.

Monitoring Well	Compound	Sample Date	Each Result (ug/L)	Interwell Prediction Limit (ug/L)	Each Result (ug/L)	Intrawell Control Limit (ug/L)	95% LCL (ug/L)	95% UCL (ug/L)	GWPS Limit (ug/L)	SSI Initial Exceedance	Resamples Due	5th Background Sample
MW-19	Barium	11/26/2018	**1040**	386.3237	**1040**	2542.20	--	--	2000	10/15/2024	NA	12/2/2019
MW-19	Barium	3/18/2019	**1160**	386.3237	**1160**	2542.20	--	--	2000	10/15/2024	NA	12/2/2019
MW-19	Barium	12/2/2019	**1030**	386.3237	**1030**	2542.20	--	--	2000	10/15/2024	NA	12/2/2019
MW-19	Barium	3/30/2020	**1040**	386.3237	**1040**	2542.20	--	--	2000	10/15/2024	NA	12/2/2019
MW-19	Barium	11/17/2020	**1150**	386.3237	**1150**	2542.20	--	--	2000	10/15/2024	NA	12/2/2019
MW-19	Barium	5/6/2021	**1150**	386.3237	**1150**	2542.20	--	--	2000	10/15/2024	NA	12/2/2019
MW-19	Barium	10/7/2021	**1140**	386.3237	**1140**	2542.20	--	--	2000	10/15/2024	NA	12/2/2019
MW-19	Barium	4/6/2022	**1300**	386.3237	**1300**	2542.20	--	--	2000	10/15/2024	NA	12/2/2019
MW-19	Barium	8/23/2022	**1110**	386.3237	**1110**	2542.20	--	--	2000	10/15/2024	NA	12/2/2019
MW-19	Barium	3/8/2023	**1270**	386.3237	**1270**	2542.20	--	--	2000	10/15/2024	NA	12/2/2019
MW-19	Barium	9/13/2023	**1240**	386.3237	**1240**	2542.20	--	--	2000	10/15/2024	NA	12/2/2019
MW-19	Barium	5/29/2024	**1070**	386.3237	**1070**	2542.20	1092.000	1265.000	2000	10/15/2024	NA	12/2/2019
MW-19	Barium	10/15/2024	**966**	386.3237	**966**	2542.20	967.361	1305.639	2000	10/15/2024	NA	12/2/2019

Table 7
Summary of Ongoing & Newly Identified SSI
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KEY:	Interwell SSI	Intrawell SSI	SSL LCL>GWPS	SSL UCL>GWPS

Note: The absence of shading indicates that the condition does not exist.

Monitoring Well	Compound	Sample Date	Each Result (ug/L)	Interwell Prediction Limit (ug/L)	Each Result (ug/L)	Intrawell Control Limit (ug/L)	95% LCL (ug/L)	95% UCL (ug/L)	GWPS Limit (ug/L)	SSI Initial Exceedance	Resamples Due	5th Background Sample
MW-19	Cobalt	11/26/2018	**16.90**	4.2	**16.90**	59.560	--	--	**49.62**	10/15/2024	NA	12/2/2019
MW-19	Cobalt	3/18/2019	**13.30**	4.2	**13.30**	59.560	--	--	**49.62**	10/15/2024	NA	12/2/2019
MW-19	Cobalt	12/2/2019	**15.50**	4.2	**15.50**	59.560	--	--	**49.62**	10/15/2024	NA	12/2/2019
MW-19	Cobalt	3/30/2020	**14.20**	4.2	**14.20**	59.560	--	--	**49.62**	10/15/2024	NA	12/2/2019
MW-19	Cobalt	11/17/2020	**20.60**	4.2	**20.60**	59.560	--	--	**49.62**	10/15/2024	NA	12/2/2019
MW-19	Cobalt	5/6/2021	**20.10**	4.2	**20.10**	59.560	--	--	**49.62**	10/15/2024	NA	12/2/2019
MW-19	Cobalt	10/7/2021	**22.60**	4.2	**22.60**	59.560	--	--	**49.62**	10/15/2024	NA	12/2/2019
MW-19	Cobalt	4/6/2022	**25.60**	4.2	**25.60**	59.560	--	--	**49.62**	10/15/2024	NA	12/2/2019
MW-19	Cobalt	8/23/2022	**21.30**	4.2	**21.30**	59.560	--	--	**49.62**	10/15/2024	NA	12/2/2019
MW-19	Cobalt	3/8/2023	**23.55**	4.2	**23.55**	59.560	--	--	**49.62**	10/15/2024	NA	12/2/2019
MW-19	Cobalt	9/13/2023	**23.80**	4.2	**23.80**	59.560	--	--	**49.62**	10/15/2024	NA	12/2/2019
MW-19	Cobalt	5/29/2024	**23.40**	4.2	**23.40**	59.560	20.660	24.580	**49.62**	10/15/2024	NA	12/2/2019
MW-19	Cobalt	10/15/2024	**19.50**	4.2	**19.50**	59.560	20.153	24.972	**49.62**	10/15/2024	NA	12/2/2019

Table 7
Summary of Ongoing & Newly Identified SSI
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Cass County Sanitary Landfill
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KEY:	Interwell SSI	Intrawell SSI	SSL LCL>GWPS	SSL UCL>GWPS

Note: The absence of shading indicates that the condition does not exist.

Monitoring Well	Compound	Sample Date	Each Result (ug/L)	Interwell Prediction Limit (ug/L)	Each Result (ug/L)	Intrawell Control Limit (ug/L)	95% LCL (ug/L)	95% UCL (ug/L)	GWPS Limit (ug/L)	SSI Initial Exceedance	Resamples Due	5th Background Sample
MW-19	Nickel	11/26/2018	**62.70**	6.3	**62.70**	151.12	--	--	100	5/29/2024	NA	12/2/2019
MW-19	Nickel	3/18/2019	**64.35**	6.3	**64.35**	151.12	--	--	100	5/29/2024	NA	12/2/2019
MW-19	Nickel	12/2/2019	**59.60**	6.3	**59.60**	151.12	--	--	100	5/29/2024	NA	12/2/2019
MW-19	Nickel	3/30/2020	**58.10**	6.3	**58.10**	151.12	--	--	100	5/29/2024	NA	12/2/2019
MW-19	Nickel	11/17/2020	**60.40**	6.3	**60.40**	151.12	--	--	100	5/29/2024	NA	12/2/2019
MW-19	Nickel	5/6/2021	**49.50**	6.3	**49.50**	151.12	--	--	100	5/29/2024	NA	12/2/2019
MW-19	Nickel	10/7/2021	**56.40**	6.3	**56.40**	151.12	--	--	100	5/29/2024	NA	12/2/2019
MW-19	Nickel	4/6/2022	**64.30**	6.3	**64.30**	151.12	--	--	100	5/29/2024	NA	12/2/2019
MW-19	Nickel	8/23/2022	**63.80**	6.3	**63.80**	151.12	--	--	100	5/29/2024	NA	12/2/2019
MW-19	Nickel	3/8/2023	**61.65**	6.3	**61.65**	151.12	--	--	100	5/29/2024	NA	12/2/2019
MW-19	Nickel	9/13/2023	**43.10**	6.3	**43.10**	151.12	--	--	100	5/29/2024	NA	12/2/2019
MW-19	Nickel	5/29/2024	**59.60**	6.3	**59.60**	151.12	49.450	65.240	100	5/29/2024	NA	12/2/2019
MW-19	Nickel	10/15/2024	**55.70**	6.3	**55.70**	151.12	45.230	64.795	100	5/29/2024	NA	12/2/2019

Table 7
Summary of Ongoing & Newly Identified SSI
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KEY:	Interwell SSI	Intrawell SSI	SSL LCL>GWPS	SSL UCL>GWPS

Note: The absence of shading indicates that the condition does not exist.

Monitoring Well	Compound	Sample Date	Each Result (ug/L)	Interwell Prediction Limit (ug/L)	Each Result (ug/L)	Intrawell Control Limit (ug/L)	95% LCL (ug/L)	95% UCL (ug/L)	GWPS Limit (ug/L)	SSI Initial Exceedance	Resamples Due	5th Background Sample
MW-19	Benzene	11/26/2018	**0.75**	0.5	**0.75**	0.5	--	--	5	11/26/2018	NA	11/17/2020
MW-19	Benzene	3/18/2019	<0.5	0.5	<0.5	0.5	--	--	5	11/26/2018	NA	11/17/2020
MW-19	Benzene	12/2/2019	<0.5	0.5	<0.5	0.5	--	--	5	11/26/2018	NA	11/17/2020
MW-19	Benzene	3/30/2020	<0.5	0.5	<0.5	0.5	--	--	5	11/26/2018	NA	11/17/2020
MW-19	Benzene	11/17/2020	**0.56**	0.5	**0.56**	0.5	--	--	5	11/26/2018	NA	11/17/2020
MW-19	Benzene	5/6/2021	**0.82**	0.5	**0.82**	0.5	--	--	5	11/26/2018	NA	11/17/2020
MW-19	Benzene	10/7/2021	**0.86**	0.5	**0.86**	0.5	--	--	5	11/26/2018	NA	11/17/2020
MW-19	Benzene	4/6/2022	**0.93**	0.5	**0.93**	0.5	--	--	5	11/26/2018	NA	11/17/2020
MW-19	Benzene	8/23/2022	**0.59**	0.5	**0.59**	0.5	--	--	5	11/26/2018	NA	11/17/2020
MW-19	Benzene	3/8/2023	**0.91**	0.5	**0.91**	0.5	--	--	5	11/26/2018	NA	11/17/2020
MW-19	Benzene	9/13/2023	**0.73**	0.5	**0.73**	0.5	--	--	5	11/26/2018	NA	11/17/2020
MW-19	Benzene	5/29/2024	**0.62**	0.5	**0.62**	0.5	0.595	0.911	5	11/26/2018	NA	11/17/2020
MW-19	Benzene	10/15/2024	<0.5	0.5	<0.5	0.5	0.301	0.959	5	11/26/2018	NA	11/17/2020

Table 7
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KEY:	Interwell SSI	Intrawell SSI	SSL LCL>GWPS	SSL UCL>GWPS

Note: The absence of shading indicates that the condition does not exist.

Monitoring Well	Compound	Sample Date	Each Result (ug/L)	Interwell Prediction Limit (ug/L)	Each Result (ug/L)	Intrawell Control Limit (ug/L)	95% LCL (ug/L)	95% UCL (ug/L)	GWPS Limit (ug/L)	SSI Initial Exceedance	Resamples Due	5th Background Sample
MW-19	Chlorobenzene	11/26/2018	<1.0	1.0	<1.0	1.0	--	--	100	5/6/2021	NA	11/17/2020
MW-19	Chlorobenzene	3/18/2019	<1.0	1.0	<1.0	1.0	--	--	100	5/6/2021	NA	11/17/2020
MW-19	Chlorobenzene	12/2/2019	<1.0	1.0	<1.0	1.0	--	--	100	5/6/2021	NA	11/17/2020
MW-19	Chlorobenzene	3/30/2020	<1.0	1.0	<1.0	1.0	--	--	100	5/6/2021	NA	11/17/2020
MW-19	Chlorobenzene	11/17/2020	<1.0	1.0	<1.0	1.0	--	--	100	5/6/2021	NA	11/17/2020
MW-19	Chlorobenzene	5/6/2021	**1.21**	1.0	**1.21**	1.0	--	--	100	5/6/2021	NA	11/17/2020
MW-19	Chlorobenzene	10/7/2021	**1.45**	1.0	**1.45**	1.0	--	--	100	5/6/2021	NA	11/17/2020
MW-19	Chlorobenzene	4/6/2022	**1.92**	1.0	**1.92**	1.0	--	--	100	5/6/2021	NA	11/17/2020
MW-19	Chlorobenzene	8/23/2022	**1.89**	1.0	**1.89**	1.0	--	--	100	5/6/2021	NA	11/17/2020
MW-19	Chlorobenzene	3/8/2023	**1.86**	1.0	**1.86**	1.0	--	--	100	5/6/2021	NA	11/17/2020
MW-19	Chlorobenzene	9/13/2023	**1.49**	1.0	**1.49**	1.0	--	--	100	5/6/2021	NA	11/17/2020
MW-19	Chlorobenzene	5/29/2024	**1.16**	1.0	**1.16**	1.0	0.765	1.824	100	5/6/2021	NA	11/17/2020
MW-19	Chlorobenzene	10/15/2024	**1.20**	1.0	**1.20**	1.0	1.043	1.82	100	5/6/2021	NA	11/17/2020

Table 7
Summary of Ongoing & Newly Identified SSI
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Cass County Sanitary Landfill
Permit No. 15-SDP-01-75C

KEY:	Interwell SSI	Intrawell SSI	SSL LCL>GWPS	SSL UCL>GWPS

Note: The absence of shading indicates that the condition does not exist.

Monitoring Well	Compound	Sample Date	Each Result (ug/L)	Interwell Prediction Limit (ug/L)	Each Result (ug/L)	Intrawell Control Limit (ug/L)	95% LCL (ug/L)	95% UCL (ug/L)	GWPS Limit (ug/L)	SSI Initial Exceedance	Resamples Due	5th Background Sample
MW-19	gamma-chlordane	11/26/2018	<0.05	0.05	<0.05	0.05	--	--	2	3/30/2020	NA	11/17/2020
MW-19	gamma-chlordane	3/18/2019	<0.05	0.05	<0.05	0.05	--	--	2	3/30/2020	NA	11/17/2020
MW-19	gamma-chlordane	12/2/2019	<0.05	0.05	<0.05	0.05	--	--	2	3/30/2020	NA	11/17/2020
MW-19	gamma-chlordane	3/30/2020	**0.0634**	0.05	**0.0634**	0.05	--	--	2	3/30/2020	NA	11/17/2020
MW-19	gamma-chlordane	11/17/2020	<0.05	0.05	<0.05	0.05	--	--	2	3/30/2020	NA	11/17/2020
MW-19	gamma-chlordane	5/6/2021	**0.119**	0.05	**0.119**	0.05	--	--	2	3/30/2020	NA	11/17/2020
MW-19	gamma-chlordane	10/7/2021	<0.05	0.05	<0.05	0.05	--	--	2	3/30/2020	NA	11/17/2020
MW-19	gamma-chlordane	4/6/2022	<0.05	0.05	<0.05	0.05	--	--	2	3/30/2020	NA	11/17/2020
MW-19	gamma-chlordane	8/23/2022	<0.05	0.05	<0.05	0.05	--	--	2	3/30/2020	NA	11/17/2020
MW-19	gamma-chlordane	3/8/2023	<0.05	0.05	<0.05	0.05	--	--	2	3/30/2020	NA	11/17/2020
MW-19	gamma-chlordane	9/13/2023	<0.05	0.05	<0.05	0.05	--	--	2	3/30/2020	NA	11/17/2020
MW-19	gamma-chlordane	5/29/2024	<0.05	0.05	<0.05	0.05	0.016	1.000	2	3/30/2020	NA	11/17/2020
MW-19	gamma-chlordane	10/15/2024	<0.05	0.05	<0.05	0.05	0.025	0.025	2	3/30/2020	NA	11/17/2020

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KEY:	Interwell SSI	Intrawell SSI	SSL LCL>GWPS	SSL UCL>GWPS

Note: The absence of shading indicates that the condition does not exist.

Monitoring Well	Compound	Sample Date	Each Result (ug/L)	Interwell Prediction Limit (ug/L)	Each Result (ug/L)	Intrawell Control Limit (ug/L)	95% LCL (ug/L)	95% UCL (ug/L)	GWPS Limit (ug/L)	SSI Initial Exceedance	Resamples Due	5th Background Sample
MW-21	Barium	11/27/2018	**421.00**	386.3237	**421.00**	2767.13	--	--	2000	10/15/2024	NA	12/2/2019
MW-21	Barium	3/18/2019	**236.00**	386.3237	**236.00**	2767.13	--	--	2000	10/15/2024	NA	12/2/2019
MW-21	Barium	12/2/2019	**969.00**	386.3237	**969.00**	2767.13	--	--	2000	10/15/2024	NA	12/2/2019
MW-21	Barium	3/30/2020	**1180.00**	386.3237	**1180.00**	2767.13	--	--	2000	10/15/2024	NA	12/2/2019
MW-21	Barium	11/17/2020	**894.000**	386.3237	**894.000**	2767.13	--	--	2000	10/15/2024	NA	12/2/2019
MW-21	Barium	5/6/2021	**909.00**	386.3237	**909.00**	2767.13	--	--	2000	10/15/2024	NA	12/2/2019
MW-21	Barium	10/7/2021	**733.00**	386.3237	**733.00**	2767.13	--	--	2000	10/15/2024	NA	12/2/2019
MW-21	Barium	4/6/2022	**1050.00**	386.3237	**1050.00**	2767.13	--	--	2000	10/15/2024	NA	12/2/2019
MW-21	Barium	8/23/2022	**1095.00**	386.3237	**1095.00**	2767.13	--	--	2000	10/15/2024	NA	12/2/2019
MW-21	Barium	3/8/2023	**1210.00**	386.3237	**1210.00**	2767.13	--	--	2000	10/15/2024	NA	12/2/2019
MW-21	Barium	9/13/2023	**1240.00**	386.3237	**1240.00**	2767.13	--	--	2000	10/15/2024	NA	12/2/2019
MW-21	Barium	5/29/2024	**1110.00**	386.3237	**1110.00**	2767.13	847.000	1213.000	2000	10/15/2024	NA	12/2/2019
MW-21	Barium	10/15/2024	**1170.000**	386.3237	**1170.000**	2767.13	1116.394	1248.606	2000	10/15/2024	NA	12/2/2019

Table 7
Summary of Ongoing & Newly Identified SSI
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Permit No. 15-SDP-01-75C

KEY:	Interwell SSI	Intrawell SSI	SSL LCL>GWPS	SSL UCL>GWPS

Note: The absence of shading indicates that the condition does not exist.

Monitoring Well	Compound	Sample Date	Each Result (ug/L)	Interwell Prediction Limit (ug/L)	Each Result (ug/L)	Intrawell Control Limit (ug/L)	95% LCL (ug/L)	95% UCL (ug/L)	GWPS Limit (ug/L)	SSI Initial Exceedance	Resamples Due	5th Background Sample
MW-21	Cobalt	11/27/2018	**1.33**	4.2	**1.33**	70.58	--	--	**49.62**	10/15/2024	NA	12/2/2019
MW-21	Cobalt	3/18/2019	**3.39**	4.2	**3.39**	70.58	--	--	**49.62**	10/15/2024	NA	12/2/2019
MW-21	Cobalt	12/2/2019	**3.30**	4.2	**3.30**	70.58	--	--	**49.62**	10/15/2024	NA	12/2/2019
MW-21	Cobalt	3/30/2020	**1.70**	4.2	**1.70**	70.58	--	--	**49.62**	10/15/2024	NA	12/2/2019
MW-21	Cobalt	11/17/2020	**1.86**	4.2	**1.86**	70.58	--	--	**49.62**	10/15/2024	NA	12/2/2019
MW-21	Cobalt	5/6/2021	**1.64**	4.2	**1.64**	70.58	--	--	**49.62**	10/15/2024	NA	12/2/2019
MW-21	Cobalt	10/7/2021	**2.68**	4.2	**2.68**	70.58	--	--	**49.62**	10/15/2024	NA	12/2/2019
MW-21	Cobalt	4/6/2022	**4.62**	4.2	**4.62**	70.58	--	--	**49.62**	10/15/2024	NA	12/2/2019
MW-21	Cobalt	8/23/2022	**3.94**	4.2	**3.94**	70.58	--	--	**49.62**	10/15/2024	NA	12/2/2019
MW-21	Cobalt	3/8/2023	**5.73**	4.2	**5.73**	70.58	--	--	**49.62**	10/15/2024	NA	12/2/2019
MW-21	Cobalt	9/13/2023	**4.68**	4.2	**4.68**	70.58	--	--	**49.62**	10/15/2024	NA	12/2/2019
MW-21	Cobalt	5/29/2024	**7.15**	4.2	**7.15**	70.58	--	--	**49.62**	10/15/2024	NA	12/2/2019
MW-21	Cobalt	10/15/2024	**13.40**	4.2	**13.40**	70.58	3.145	12.335	**49.62**	10/15/2024	NA	12/2/2019

Table 7
Summary of Ongoing & Newly Identified SSI
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KEY:	Interwell SSI	Intrawell SSI	SSL LCL>GWPS	SSL UCL>GWPS

Note: The absence of shading indicates that the condition does not exist.

Monitoring Well	Compound	Sample Date	Each Result (ug/L)	Interwell Prediction Limit (ug/L)	Each Result (ug/L)	Intrawell Control Limit (ug/L)	95% LCL (ug/L)	95% UCL (ug/L)	GWPS Limit (ug/L)	SSI Initial Exceedance	Resamples Due	5th Background Sample
MW-21	Copper	11/27/2018	**5.77**	5.0	**5.77**	21.10	--	--	1300	10/15/2024	NA	12/2/2019
MW-21	Copper	3/18/2019	<5.0	5.0	<5.0	21.10	--	--	1300	10/15/2024	NA	12/2/2019
MW-21	Copper	12/2/2019	<5.0	5.0	<5.0	21.10	--	--	1300	10/15/2024	NA	12/2/2019
MW-21	Copper	3/30/2020	<5.0	5.0	<5.0	21.10	--	--	1300	10/15/2024	NA	12/2/2019
MW-21	Copper	11/17/2020	<5.0	5.0	<5.0	21.10	--	--	1300	10/15/2024	NA	12/2/2019
MW-21	Copper	5/6/2021	<5.0	5.0	<5.0	21.10	--	--	1300	10/15/2024	NA	12/2/2019
MW-21	Copper	10/7/2021	<5.0	5.0	<5.0	21.10	--	--	1300	10/15/2024	NA	12/2/2019
MW-21	Copper	4/6/2022	<5.0	5.0	<5.0	21.10	--	--	1300	10/15/2024	NA	12/2/2019
MW-21	Copper	8/23/2022	<5.0	5.0	<5.0	21.10	--	--	1300	10/15/2024	NA	12/2/2019
MW-21	Copper	3/8/2023	<5.0	5.0	<5.0	21.10	--	--	1300	10/15/2024	NA	12/2/2019
MW-21	Copper	9/13/2023	<5.0	5.0	<5.0	21.10	--	--	1300	10/15/2024	NA	12/2/2019
MW-21	Copper	5/29/2024	<5.0	5.0	<5.0	21.10	--	--	1300	10/15/2024	NA	12/2/2019
MW-21	Copper	10/15/2024	**7.40**	5.0	**7.40**	21.10	0.843	6.607	1300	10/15/2024	NA	12/2/2019

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Summary of Ongoing & Newly Identified SSI
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KEY: Interwell SSI | Intrawell SSI | SSL LCL>GWPS | SSL UCL>GWPS

Note: The absence of shading indicates that the condition does not exist.

Monitoring Well	Compound	Sample Date	Each Result (ug/L)	Interwell Prediction Limit (ug/L)	Each Result (ug/L)	Intrawell Control Limit (ug/L)	95% LCL (ug/L)	95% UCL (ug/L)	GWPS Limit (ug/L)	SSI Initial Exceedance	Resamples Due	5th Background Sample
MW-21	Nickel	11/27/2018	**6.55**	6.30	**6.55**	271.20	--	--	100	5/29/2024	NA	12/2/2019
MW-21	Nickel	3/18/2019	**6.09**	6.30	**6.09**	271.20	--	--	100	5/29/2024	NA	12/2/2019
MW-21	Nickel	12/2/2019	<4.0	6.30	<4.0	271.20	--	--	100	5/29/2024	NA	12/2/2019
MW-21	Nickel	3/30/2020	<4.0	6.30	<4.0	271.20	--	--	100	5/29/2024	NA	12/2/2019
MW-21	Nickel	11/17/2020	<4.0	6.30	<4.0	271.20	--	--	100	5/29/2024	NA	12/2/2019
MW-21	Nickel	5/6/2021	<4.0	6.30	<4.0	271.20	--	--	100	5/29/2024	NA	12/2/2019
MW-21	Nickel	10/7/2021	<4.0	6.30	<4.0	271.20	--	--	100	5/29/2024	NA	12/2/2019
MW-21	Nickel	4/6/2022	<4.0	6.30	<4.0	271.20	--	--	100	5/29/2024	NA	12/2/2019
MW-21	Nickel	8/23/2022	<4.0	6.30	<4.0	271.20	--	--	100	5/29/2024	NA	12/2/2019
MW-21	Nickel	3/8/2023	**8.53**	6.30	**8.53**	271.20	--	--	100	5/29/2024	NA	12/2/2019
MW-21	Nickel	9/13/2023	<4.0	6.30	<4.0	271.20	--	--	100	5/29/2024	NA	12/2/2019
MW-21	Nickel	5/29/2024	**11.70**	6.30	**11.70**	271.20	2.680	11.700	100	5/29/2024	NA	12/2/2019
MW-21	Nickel	10/15/2024	**27.20**	6.30	**27.20**	271.20	7.095	29.12	100	5/29/2024	NA	12/2/2019

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KEY:	Interwell SSI	Intrawell SSI	SSL LCL>GWPS	SSL UCL>GWPS

Note: The absence of shading indicates that the condition does not exist.

Monitoring Well	Compound	Sample Date	Each Result (ug/L)	Interwell Prediction Limit (ug/L)	Each Result (ug/L)	Intrawell Control Limit (ug/L)	95% LCL (ug/L)	95% UCL (ug/L)	GWPS Limit (ug/L)	SSI Initial Exceedance	Resamples Due	5th Background Sample
MW-24	Arsenic	11/26/20218	<2.0	9.13	<2.0	88.09	--	--	10	10/15/2024	NA	11/17/2020
MW-24	Arsenic	3/18/2019	<2.0	9.13	<2.0	88.09	--	--	10	10/15/2024	NA	11/17/2020
MW-24	Arsenic	12/2/2019	<2.0	9.13	<2.0	88.09	--	--	10	10/15/2024	NA	11/17/2020
MW-24	Arsenic	3/30/2020	<2.0	9.13	<2.0	88.09	--	--	10	10/15/2024	NA	11/17/2020
MW-24	Arsenic	11/17/2020	**2.86**	9.13	**2.86**	88.09	--	--	10	10/15/2024	NA	11/17/2020
MW-24	Arsenic	5/6/2021	<2.0	9.13	<2.0	88.09	--	--	10	10/15/2024	NA	11/17/2020
MW-24	Arsenic	10/7/2021	**2.09**	9.13	**2.09**	88.09	--	--	10	10/15/2024	NA	11/17/2020
MW-24	Arsenic	4/6/2022	<2.0	9.13	<2.0	88.09	--	--	10	10/15/2024	NA	11/17/2020
MW-24	Arsenic	8/23/2022	<2.0	9.13	<2.0	88.09	--	--	10	10/15/2024	NA	11/17/2020
MW-24	Arsenic	9/29/2022	<2.0	9.13	<2.0	88.09	--	--	10	10/15/2024	NA	11/17/2020
MW-24	Arsenic	3/8/2023	<2.0	9.13	<2.0	88.09	--	--	10	10/15/2024	NA	11/17/2020
MW-24	Arsenic	9/13/2023	<2.0	9.13	<2.0	88.09	--	--	10	10/15/2024	NA	11/17/2020
MW-24	Arsenic	5/29/2024	<2.0	9.13	<2.0	88.09	0.8643	1.866	10	10/15/2024	NA	11/17/2020
MW-24	Arsenic	10/15/2024	**9.90**	9.13	**9.90**	88.09	0.000	8.400	10	10/15/2024	NA	11/17/2020

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KEY:	Interwell SSI	Intrawell SSI	SSL LCL>GWPS	SSL UCL>GWPS

Note: The absence of shading indicates that the condition does not exist.

Monitoring Well	Compound	Sample Date	Each Result (ug/L)	Interwell Prediction Limit (ug/L)	Each Result (ug/L)	Intrawell Control Limit (ug/L)	95% LCL (ug/L)	95% UCL (ug/L)	GWPS Limit (ug/L)	SSI Initial Exceedance	Resamples Due	5th Background Sample
MW-24	Barium	11/26/20218	**200.00**	386.3237	**200.00**	2209.75	--	--	2000	3/30/2020	NA	10/7/2021
MW-24	Barium	3/30/2020	**761.00**	386.3237	**761.00**	2209.75	--	--	2000	3/30/2020	NA	10/7/2021
MW-24	Barium	11/17/2020	**896.00**	386.3237	**896.00**	2209.75	--	--	2000	3/30/2020	NA	10/7/2021
MW-24	Barium	5/6/2021	**735.00**	386.3237	**735.00**	2209.75	--	--	2000	3/30/2020	NA	10/7/2021
MW-24	Barium	10/7/2021	**785.00**	386.3237	**785.00**	2209.75	--	--	2000	3/30/2020	NA	10/7/2021
MW-24	Barium	4/6/2022	**702.00**	386.3237	**702.00**	2209.75	--	--	2000	3/30/2020	NA	10/7/2021
MW-24	Barium	7/8/2022	**679.00**	386.3237	**679.00**	2209.75	--	--	2000	3/30/2020	NA	10/7/2021
MW-24	Barium	8/23/2022	**774.00**	386.3237	**774.00**	2209.75	--	--	2000	3/30/2020	NA	10/7/2021
MW-24	Barium	9/29/2022	**834.00**	386.3237	**834.00**	2209.75	--	--	2000	3/30/2020	NA	10/7/2021
MW-24	Barium	3/8/2023	**819.00**	386.3237	**819.00**	2209.75	--	--	2000	3/30/2020	NA	10/7/2021
MW-24	Barium	9/13/2023	**712.00**	386.3237	**712.00**	2209.75	--	--	2000	3/30/2020	NA	10/7/2021
MW-24	Barium	5/29/2024	**581.00**	386.3237	**581.00**	2209.75	646.800	824.700	2000	3/30/2020	NA	10/7/2021
MW-24	Barium	10/15/2024	**700.00**	386.3237	**700.00**	2209.75	588.490	817.510	2000	3/30/2020	NA	10/7/2021

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KEY:	Interwell SSI	Intrawell SSI	SSL LCL>GWPS	SSL UCL>GWPS

Note: The absence of shading indicates that the condition does not exist.

Monitoring Well	Compound	Sample Date	Each Result (ug/L)	Interwell Prediction Limit (ug/L)	Each Result (ug/L)	Intrawell Control Limit (ug/L)	95% LCL (ug/L)	95% UCL (ug/L)	GWPS Limit (ug/L)	SSI Initial Exceedance	Resamples Due	5th Background Sample
MW-24	Cobalt	3/18/2019	<0.4	4.2	<0.4	89.08	--	--	**49.62**	8/23/2022	NA	8/23/2022
MW-24	Cobalt	3/30/2020	**0.88**	4.2	**0.88**	89.08	--	--	**49.62**	8/23/2022	NA	8/23/2022
MW-24	Cobalt	4/6/2022	**3.13**	4.2	**3.13**	89.08	--	--	**49.62**	8/23/2022	NA	8/23/2022
MW-24	Cobalt	7/8/2022	**3.66**	4.2	**3.66**	89.08	--	--	**49.62**	8/23/2022	NA	8/23/2022
MW-24	Cobalt	8/23/2022	**4.23**	4.2	**4.23**	89.08	--	--	**49.62**	8/23/2022	NA	8/23/2022
MW-24	Cobalt	9/29/2022	**4.16**	4.2	**4.16**	89.08	--	--	**49.62**	8/23/2022	NA	8/23/2022
MW-24	Cobalt	3/8/2023	**2.83**	4.2	**2.83**	89.08	--	--	**49.62**	8/23/2022	NA	8/23/2022
MW-24	Cobalt	9/13/2023	**3.23**	4.2	**3.23**	89.08	--	--	**49.62**	8/23/2022	NA	8/23/2022
MW-24	Cobalt	5/29/2024	**2.22**	4.2	**2.22**	89.08	1.876	4.209	**49.62**	8/23/2022	NA	8/23/2022
MW-24	Cobalt	10/15/2024	**4.30**	4.2	**4.30**	89.08	2.116	4.174	**49.62**	8/23/2022	NA	8/23/2022

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KEY: Interwell SSI | Intrawell SSI | SSL LCL>GWPS | SSL UCL>GWPS

Note: The absence of shading indicates that the condition does not exist.

Monitoring Well	Compound	Sample Date	Each Result (ug/L)	Interwell Prediction Limit (ug/L)	Each Result (ug/L)	Intrawell Control Limit (ug/L)	95% LCL (ug/L)	95% UCL (ug/L)	GWPS Limit (ug/L)	SSI Initial Exceedance	Resamples Due	5th Background Sample
MW-24	Nickel	11/26/20218	**2.72**	6.30	**2.72**	102.55	--	--	100	4/6/2022	NA	9/29/2022
MW-24	Nickel	4/6/2022	**32.30**	6.30	**32.30**	102.55	--	--	100	4/6/2022	NA	9/29/2022
MW-24	Nickel	7/8/2022	**29.00**	6.30	**29.00**	102.55	--	--	100	4/6/2022	NA	9/29/2022
MW-24	Nickel	8/23/2022	**30.60**	6.30	**30.60**	102.55	--	--	100	4/6/2022	NA	9/29/2022
MW-24	Nickel	9/29/2022	**29.10**	6.30	**29.10**	102.55	--	--	100	4/6/2022	NA	9/29/2022
MW-24	Nickel	3/8/2023	**30.10**	6.30	**30.10**	102.55	--	--	100	4/6/2022	NA	9/29/2022
MW-24	Nickel	9/13/2023	**23.90**	6.30	**23.90**	102.55	--	--	100	4/6/2022	NA	9/29/2022
MW-24	Nickel	5/29/2024	**30.50**	6.30	**30.50**	102.55	2.720	32.300	100	4/6/2022	NA	9/29/2022
MW-24	Nickel	10/15/2024	**32.70**	6.30	**32.70**	102.55	24.857	33.743	100	4/6/2022	NA	9/29/2022

Table 7
Summary of Ongoing & Newly Identified SSI
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Cass County Sanitary Landfill
Permit No. 15-SDP-01-75C

KEY:	Interwell SSI	Intrawell SSI	SSL LCL>GWPS	SSL UCL>GWPS

Note: The absence of shading indicates that the condition does not exist.

Monitoring Well	Compound	Sample Date	Each Result (ug/L)	Interwell Prediction Limit (ug/L)	Each Result (ug/L)	Intrawell Control Limit (ug/L)	95% LCL (ug/L)	95% UCL (ug/L)	GWPS Limit (ug/L)	SSI Initial Exceedance	Resamples Due	5th Background Sample
MW-37R	Barium	11/27/2018	**828**	386.3237	**828**	1365.21	--	--	2000	NA	NA	12/2/2019
MW-37R	Barium	3/18/2019	**887**	386.3237	**887**	1365.21	--	--	2000	NA	NA	12/2/2019
MW-37R	Barium	6/5/2019	**710**	386.3237	**710**	1365.21	--	--	2000	NA	NA	12/2/2019
MW-37R	Barium	8/22/2019	**879**	386.3237	**879**	1365.21	--	--	2000	NA	NA	12/2/2019
MW-37R	Barium	12/2/2019	**786**	386.3237	**786**	1365.21	--	--	2000	NA	NA	12/2/2019
MW-37R	Barium	2/28/2020	**857**	386.3237	**857**	1365.21	--	--	2000	NA	NA	12/2/2019
MW-37R	Barium	3/30/2020	**805**	386.3237	**805**	1365.21	--	--	2000	NA	NA	12/2/2019
MW-37R	Barium	11/17/2020	**780**	386.3237	**780**	1365.21	--	--	2000	NA	NA	12/2/2019
MW-37R	Barium	5/6/2021	**907**	386.3237	**907**	1365.21	--	--	2000	NA	NA	12/2/2019
MW-37R	Barium	10/7/2021	**911**	386.3237	**911**	1365.21	--	--	2000	NA	NA	12/2/2019
MW-37R	Barium	4/6/2022	**939**	386.3237	**939**	1365.21	--	--	2000	NA	NA	12/2/2019
MW-37R	Barium	3/8/2023	**863**	386.3237	**863**	1365.21	--	--	2000	NA	NA	12/2/2019
MW-37R	Barium	9/13/2023	**693**	386.3237	**693**	1365.21	--	--	2000	NA	NA	12/2/2019
MW-37R	Barium	5/29/2024	**686**	386.3237	**686**	1365.21	718.800	927.200	2000	NA	NA	12/2/2019
MW-37R	Barium	10/15/2024	**715**	386.3237	**715**	1365.21	641.124	837.376	2000	NA	NA	12/2/2019

Table 7
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Permit No. 15-SDP-01-75C

KEY:	Interwell SSI	Intrawell SSI	SSL LCL>GWPS	SSL UCL>GWPS

Note: The absence of shading indicates that the condition does not exist.

Monitoring Well	Compound	Sample Date	Each Result (ug/L)	Interwell Prediction Limit (ug/L)	Each Result (ug/L)	Intrawell Control Limit (ug/L)	95% LCL (ug/L)	95% UCL (ug/L)	GWPS Limit (ug/L)	SSI Initial Exceedance	Resamples Due	5th Background Sample
MW-37R	Lead	11/27/2018	<0.5	0.5180	<0.5	9.35	--	--	15	NA	NA	12/2/2019
MW-37R	Lead	3/18/2019	<0.5	0.5180	<0.5	9.35	--	--	15	NA	NA	12/2/2019
MW-37R	Lead	6/5/2019	<0.5	0.5180	<0.5	9.35	--	--	15	NA	NA	12/2/2019
MW-37R	Lead	8/22/2019	<0.5	0.5180	<0.5	9.35	--	--	15	NA	NA	12/2/2019
MW-37R	Lead	12/2/2019	**0.7190**	0.5180	**0.7190**	9.35	--	--	15	NA	NA	12/2/2019
MW-37R	Lead	2/28/2020	<0.5	0.5180	<0.5	9.35	--	--	15	NA	NA	12/2/2019
MW-37R	Lead	3/30/2020	<0.5	0.5180	<0.5	9.35	--	--	15	NA	NA	12/2/2019
MW-37R	Lead	11/17/2020	**3.80**	0.5180	**3.80**	9.35	--	--	15	NA	NA	12/2/2019
MW-37R	Lead	5/6/2021	**1.69**	0.5180	**1.69**	9.35	--	--	15	NA	NA	12/2/2019
MW-37R	Lead	10/7/2021	**2.67**	0.5180	**2.67**	9.35	--	--	15	NA	NA	12/2/2019
MW-37R	Lead	4/6/2022	**3.80**	0.5180	**3.80**	9.35	--	--	15	NA	NA	12/2/2019
MW-37R	Lead	3/8/2023	**1.59**	0.5180	**1.59**	9.35	--	--	15	NA	NA	12/2/2019
MW-37R	Lead	9/13/2023	**1.35**	0.5180	**1.35**	9.35	--	--	15	NA	NA	12/2/2019
MW-37R	Lead	5/29/2024	**2.16**	0.5180	**2.16**	9.35	0.865	3.461	15	NA	NA	12/2/2019
MW-37R	Lead	10/15/2024	<4.0	0.5180	<4.0	9.35	0.396	2.279	15	NA	NA	12/2/2019

Table 7
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KEY:	Interwell SSI	Intrawell SSI	SSL LCL>GWPS	SSL UCL>GWPS

Note: The absence of shading indicates that the condition does not exist.

Monitoring Well	Compound	Sample Date	Each Result (ug/L)	Interwell Prediction Limit (ug/L)	Each Result (ug/L)	Intrawell Control Limit (ug/L)	95% LCL (ug/L)	95% UCL (ug/L)	GWPS Limit (ug/L)	SSI Initial Exceedance	Resamples Due	5th Background Sample
MW-37R	Selenium	11/27/2018	**12.30**	5.0	**12.30**	111.64	--	--	50	NA	NA	12/2/2019
MW-37R	Selenium	3/18/2019	**8.08**	5.0	**8.08**	111.64	--	--	50	NA	NA	12/2/2019
MW-37R	Selenium	6/5/2019	**10.00**	5.0	**10.00**	111.64	--	--	50	NA	NA	12/2/2019
MW-37R	Selenium	8/22/2019	**6.32**	5.0	**6.32**	111.64	--	--	50	NA	NA	12/2/2019
MW-37R	Selenium	12/2/2019	**5.04**	5.0	**5.04**	111.64	--	--	50	NA	NA	12/2/2019
MW-37R	Selenium	2/28/2020	**4.58**	5.0	**4.58**	111.64	--	--	50	NA	NA	12/2/2019
MW-37R	Selenium	3/30/2020	**5.01**	5.0	**5.01**	111.64	--	--	50	NA	NA	12/2/2019
MW-37R	Selenium	11/17/2020	**17.90**	5.0	**17.90**	111.64	--	--	50	NA	NA	12/2/2019
MW-37R	Selenium	5/6/2021	**12.95**	5.0	**12.95**	111.64	--	--	50	NA	NA	12/2/2019
MW-37R	Selenium	10/7/2021	**11.90**	5.0	**11.90**	111.64	--	--	50	NA	NA	12/2/2019
MW-37R	Selenium	4/6/2022	**14.30**	5.0	**14.30**	111.64	--	--	50	NA	NA	12/2/2019
MW-37R	Selenium	3/8/2023	**20.10**	5.0	**20.10**	111.64	--	--	50	NA	NA	12/2/2019
MW-37R	Selenium	9/13/2023	**55.80**	5.0	**55.80**	111.64	--	--	50	NA	NA	12/2/2019
MW-37R	Selenium	5/29/2024	**40.50**	5.0	**40.50**	111.64	5.010	55.800	50	NA	NA	12/2/2019
MW-37R	Selenium	10/15/2024	**15.80**	5.0	**15.80**	111.64	11.166	54.934	50	NA	NA	12/2/2019

Table 7
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KEY:	Interwell SSI	Intrawell SSI	SSL LCL>GWPS	SSL UCL>GWPS

Note: The absence of shading indicates that the condition does not exist.

Monitoring Well	Compound	Sample Date	Each Result (ug/L)	Interwell Prediction Limit (ug/L)	Each Result (ug/L)	Intrawell Control Limit (ug/L)	95% LCL (ug/L)	95% UCL (ug/L)	GWPS Limit (ug/L)	SSI Initial Exceedance	Resamples Due	5th Background Sample
MW-38R	Arsenic	11/27/2018	<4	9.1	<4	*pending*	--	--	10	10/15/2024	NA	12/2/2019
MW-38R	Arsenic	3/18/2019	<4	9.1	<4	*pending*	--	--	10	10/15/2024	NA	12/2/2019
MW-38R	Arsenic	6/5/2019	**1.39**	9.1	**1.39**	*pending*	--	--	10	10/15/2024	NA	12/2/2019
MW-38R	Arsenic	8/22/2019	<4	9.1	<4	*pending*	--	--	10	10/15/2024	NA	12/2/2019
MW-38R	Arsenic	12/2/2019	**0.842**	9.1	**0.842**	*pending*	--	--	10	10/15/2024	NA	12/2/2019
MW-38R	Arsenic	3/30/2020	<4.0	9.1	<4.0	*pending*	--	--	10	10/15/2024	NA	12/2/2019
MW-38R	Arsenic	11/17/2020	<4.0	9.1	<4.0	*pending*	--	--	10	10/15/2024	NA	12/2/2019
MW-38R	Arsenic	5/6/2021	<4.0	9.1	<4.0	*pending*	--	--	10	10/15/2024	NA	12/2/2019
MW-38R	Arsenic	4/6/2022	<4.0	9.1	<4.0	*pending*	--	--	10	10/15/2024	NA	12/2/2019
MW-38R	Arsenic	8/23/2022	<4.0	9.1	<4.0	*pending*	--	--	10	10/15/2024	NA	12/2/2019
MW-38R	Arsenic	3/8/2023	<4.0	9.1	<4.0	*pending*	--	--	10	10/15/2024	NA	12/2/2019
MW-38R	Arsenic	9/13/2023	<4.0	9.1	<4.0	*pending*	--	--	10	10/15/2024	NA	12/2/2019
MW-38R	Arsenic	5/29/2024	**0.543**	9.1	**0.543**	*pending*	--	--	10	10/15/2024	NA	12/2/2019
MW-38R	Arsenic	10/15/2024	**15.70**	9.1	**15.70**	*pending*	0.000	13.21	10	10/15/2024	NA	12/2/2019

Table 7
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Permit No. 15-SDP-01-75C

KEY:	Interwell SSI	Intrawell SSI	SSL LCL>GWPS	SSL UCL>GWPS

Note: The absence of shading indicates that the condition does not exist.

Monitoring Well	Compound	Sample Date	Each Result (ug/L)	Interwell Prediction Limit (ug/L)	Each Result (ug/L)	Intrawell Control Limit (ug/L)	95% LCL (ug/L)	95% UCL (ug/L)	GWPS Limit (ug/L)	SSI Initial Exceedance	Resamples Due	5th Background Sample
MW-38R	Cadmium	11/27/2018	<0.8	1.25	<0.8	0.97	--	--	5	10/15/2024	NA	12/2/2019
MW-38R	Cadmium	3/18/2019	<0.8	1.25	<0.8	0.97	--	--	5	10/15/2024	NA	12/2/2019
MW-38R	Cadmium	6/5/2019	<0.8	1.25	<0.8	0.97	--	--	5	10/15/2024	NA	12/2/2019
MW-38R	Cadmium	8/22/2019	<0.8	1.25	<0.8	0.97	--	--	5	10/15/2024	NA	12/2/2019
MW-38R	Cadmium	12/2/2019	**0.32**	1.25	**0.32**	0.97	--	--	5	10/15/2024	NA	12/2/2019
MW-38R	Cadmium	2/28/2020	**0.39**	1.25	**0.39**	0.97	--	--	5	10/15/2024	NA	12/2/2019
MW-38R	Cadmium	3/30/2020	**0.53**	1.25	**0.53**	0.97	--	--	5	10/15/2024	NA	12/2/2019
MW-38R	Cadmium	11/17/2020	**0.22**	1.25	**0.22**	0.97	--	--	5	10/15/2024	NA	12/2/2019
MW-38R	Cadmium	5/6/2021	**0.28**	1.25	**0.28**	0.97	--	--	5	10/15/2024	NA	12/2/2019
MW-38R	Cadmium	4/6/2022	**0.20**	1.25	**0.20**	0.97	--	--	5	10/15/2024	NA	12/2/2019
MW-38R	Cadmium	8/23/2022	**0.16**	1.25	**0.16**	0.97	--	--	5	10/15/2024	NA	12/2/2019
MW-38R	Cadmium	3/8/2023	<0.8	1.25	<0.8	0.97	--	--	5	10/15/2024	NA	12/2/2019
MW-38R	Cadmium	9/13/2023	<0.8	1.25	<0.8	0.97	0.078	0.525	5	10/15/2024	NA	12/2/2019
MW-38R	Cadmium	5/29/2024	<0.8	1.25	<0.8	0.97	0.000	1.605	5	10/15/2024	NA	12/2/2019

Table 7
Summary of Ongoing & Newly Identified SSI
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Permit No. 15-SDP-01-75C

KEY:	Interwell SSI	Intrawell SSI	SSL LCL>GWPS	SSL UCL>GWPS

Note: The absence of shading indicates that the condition does not exist.

Monitoring Well	Compound	Sample Date	Each Result (ug/L)	Interwell Prediction Limit (ug/L)	Each Result (ug/L)	Intrawell Control Limit (ug/L)	95% LCL (ug/L)	95% UCL (ug/L)	GWPS Limit (ug/L)	SSI Initial Exceedance	Resamples Due	5th Background Sample
MW-38R	Cadmium	10/15/2024	**1.90**	1.25	**1.90**	0.97	0.000	1.605	5	10/15/2024	NA	12/2/2019
MW-38R	Chromium	11/27/2018	<5.0	5.0	<5.0	*pending*	--	--	100	8/22/2019	NA	12/2/2019
MW-38R	Chromium	3/18/2019	<5.0	5.0	<5.0	*pending*	--	--	100	8/22/2019	NA	12/2/2019
MW-38R	Chromium	6/5/2019	<5.0	5.0	<5.0	*pending*	--	--	100	8/22/2019	NA	12/2/2019
MW-38R	Chromium	8/22/2019	**14.60**	5.0	**14.60**	*pending*	--	--	100	8/22/2019	NA	12/2/2019
MW-38R	Chromium	12/2/2019	<5.0	5.0	<5.0	*pending*	--	--	100	8/22/2019	NA	12/2/2019
MW-38R	Chromium	2/28/2020	<5.0	5.0	<5.0	*pending*	--	--	100	8/22/2019	NA	12/2/2019
MW-38R	Chromium	3/30/2020	<5.0	5.0	<5.0	*pending*	--	--	100	8/22/2019	NA	12/2/2019
MW-38R	Chromium	11/17/2020	<5.0	5.0	<5.0	*pending*	--	--	100	8/22/2019	NA	12/2/2019
MW-38R	Chromium	5/6/2021	<5.0	5.0	<5.0	*pending*	--	--	100	8/22/2019	NA	12/2/2019
MW-38R	Chromium	4/6/2022	<5.0	5.0	<5.0	*pending*	--	--	100	8/22/2019	NA	12/2/2019
MW-38R	Chromium	8/23/2022	<5.0	5.0	<5.0	*pending*	--	--	100	8/22/2019	NA	12/2/2019
MW-38R	Chromium	3/8/2023	<5.0	5.0	<5.0	*pending*	--	--	100	8/22/2019	NA	12/2/2019
MW-38R	Chromium	9/13/2023	<5.0	5.0	<5.0	*pending*	--	--	100	8/22/2019	NA	12/2/2019
MW-38R	Chromium	5/29/2024	**177.00**	5.0	**177.00**	*pending*	2.500	177.000	100	8/22/2019	NA	12/2/2019
MW-38R	Chromium	10/15/2024	**218.00**	5.0	**218.00**	*pending*	0.000	233.886	100	8/22/2019	NA	12/2/2019

Table 7
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Cass County Sanitary Landfill
Permit No. 15-SDP-01-75C

KEY:	Interwell SSI	Intrawell SSI	SSL LCL>GWPS	SSL UCL>GWPS

Note: The absence of shading indicates that the condition does not exist.

Monitoring Well	Compound	Sample Date	Each Result (ug/L)	Interwell Prediction Limit (ug/L)	Each Result (ug/L)	Intrawell Control Limit (ug/L)	95% LCL (ug/L)	95% UCL (ug/L)	GWPS Limit (ug/L)	SSI Initial Exceedance	Resamples Due	5th Background Sample
MW-38R	Cobalt	11/27/2018	<0.4	4.2	<0.4	9.626	--	--	**49.62**	10/15/2024	NA	12/2/2019
MW-38R	Cobalt	3/18/2019	<0.4	4.2	<0.4	9.626	--	--	**49.62**	10/15/2024	NA	12/2/2019
MW-38R	Cobalt	6/5/2019	**1.36**	4.2	**1.36**	9.626	--	--	**49.62**	10/15/2024	NA	12/2/2019
MW-38R	Cobalt	8/22/2019	**1.13**	4.2	**1.13**	9.626	--	--	**49.62**	10/15/2024	NA	12/2/2019
MW-38R	Cobalt	12/2/2019	**3.84**	4.2	**3.84**	9.626	--	--	**49.62**	10/15/2024	NA	12/2/2019
MW-38R	Cobalt	2/28/2020	**2.62**	4.2	**2.62**	9.626	--	--	**49.62**	10/15/2024	NA	12/2/2019
MW-38R	Cobalt	3/30/2020	**3.17**	4.2	**3.17**	9.626	--	--	**49.62**	10/15/2024	NA	12/2/2019
MW-38R	Cobalt	11/17/2020	<0.4	4.2	<0.4	9.626	--	--	**49.62**	10/15/2024	NA	12/2/2019
MW-38R	Cobalt	5/6/2021	**0.50**	4.2	**0.50**	9.626	--	--	**49.62**	10/15/2024	NA	12/2/2019
MW-38R	Cobalt	4/6/2022	<0.4	4.2	<0.4	9.626	--	--	**49.62**	10/15/2024	NA	12/2/2019
MW-38R	Cobalt	8/23/2022	<0.4	4.2	<0.4	9.626	--	--	**49.62**	10/15/2024	NA	12/2/2019
MW-38R	Cobalt	3/8/2023	<0.4	4.2	<0.4	9.626	--	--	**49.62**	10/15/2024	NA	12/2/2019
MW-38R	Cobalt	9/13/2023	<0.4	4.2	<0.4	9.626	--	--	**49.62**	10/15/2024	NA	12/2/2019
MW-38R	Cobalt	5/29/2024	**2.87**	4.2	**2.87**	9.626	0.185	3.170	**49.62**	10/15/2024	NA	12/2/2019
MW-38R	Cobalt	10/15/2024	**16.80**	4.2	**16.80**	9.626	0.000	14.374	**49.62**	10/15/2024	NA	12/2/2019

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KEY:	Interwell SSI	Intrawell SSI	SSL LCL>GWPS	SSL UCL>GWPS

Note: The absence of shading indicates that the condition does not exist.

Monitoring Well	Compound	Sample Date	Each Result (ug/L)	Interwell Prediction Limit (ug/L)	Each Result (ug/L)	Intrawell Control Limit (ug/L)	95% LCL (ug/L)	95% UCL (ug/L)	GWPS Limit (ug/L)	SSI Initial Exceedance	Resamples Due	5th Background Sample
MW-38R	Copper	11/27/2018	<4.0	5.0	<4.0	5.88	--	--	1300	10/15/2024	NA	12/2/2019
MW-38R	Copper	3/18/2019	<4.0	5.0	<4.0	5.88	--	--	1300	10/15/2024	NA	12/2/2019
MW-38R	Copper	6/5/2019	<4.0	5.0	<4.0	5.88	--	--	1300	10/15/2024	NA	12/2/2019
MW-38R	Copper	8/22/2019	<4.0	5.0	<4.0	5.88	--	--	1300	10/15/2024	NA	12/2/2019
MW-38R	Copper	12/2/2019	<4.0	5.0	<4.0	5.88	--	--	1300	10/15/2024	NA	12/2/2019
MW-38R	Copper	2/28/2020	<4.0	5.0	<4.0	5.88	--	--	1300	10/15/2024	NA	12/2/2019
MW-38R	Copper	3/30/2020	<4.0	5.0	<4.0	5.88	--	--	1300	10/15/2024	NA	12/2/2019
MW-38R	Copper	11/17/2020	<4.0	5.0	<4.0	5.88	--	--	1300	10/15/2024	NA	12/2/2019
MW-38R	Copper	5/6/2021	<4.0	5.0	<4.0	5.88	--	--	1300	10/15/2024	NA	12/2/2019
MW-38R	Copper	4/6/2022	<4.0	5.0	<4.0	5.88	--	--	1300	10/15/2024	NA	12/2/2019
MW-38R	Copper	8/23/2022	<4.0	5.0	<4.0	5.88	--	--	1300	10/15/2024	NA	12/2/2019
MW-38R	Copper	3/8/2023	<4.0	5.0	<4.0	5.88	--	--	1300	10/15/2024	NA	12/2/2019
MW-38R	Copper	9/13/2023	<4.0	5.0	<4.0	5.88	--	--	1300	10/15/2024	NA	12/2/2019
MW-38R	Copper	5/29/2024	**5.88**	5.0	**5.88**	5.88	1.900	5.880	1300	10/15/2024	NA	12/2/2019
MW-38R	Copper	10/15/2024	**23.90**	5.0	**23.90**	5.88	0.000	20.765	1300	10/15/2024	NA	12/2/2019

Table 7
Summary of Ongoing & Newly Identified SSI
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Cass County Sanitary Landfill
Permit No. 15-SDP-01-75C

KEY:	Interwell SSI	Intrawell SSI	SSL LCL>GWPS	SSL UCL>GWPS

Note: The absence of shading indicates that the condition does not exist.

Monitoring Well	Compound	Sample Date	Each Result (ug/L)	Interwell Prediction Limit (ug/L)	Each Result (ug/L)	Intrawell Control Limit (ug/L)	95% LCL (ug/L)	95% UCL (ug/L)	GWPS Limit (ug/L)	SSI Initial Exceedance	Resamples Due	5th Background Sample
MW-38R	Lead	11/27/2018	<4.0	0.518	<4.0	0.684	--	--	15	10/15/2024	NA	12/2/2019
MW-38R	Lead	3/18/2019	<4.0	0.518	<4.0	0.684	--	--	15	10/15/2024	NA	12/2/2019
MW-38R	Lead	6/5/2019	<4.0	0.518	<4.0	0.684	--	--	15	10/15/2024	NA	12/2/2019
MW-38R	Lead	8/22/2019	<4.0	0.518	<4.0	0.684	--	--	15	10/15/2024	NA	12/2/2019
MW-38R	Lead	12/2/2019	<4.0	0.518	<4.0	0.684	--	--	15	10/15/2024	NA	12/2/2019
MW-38R	Lead	2/28/2020	<4.0	0.518	<4.0	0.684	--	--	15	10/15/2024	NA	12/2/2019
MW-38R	Lead	3/30/2020	<4.0	0.518	<4.0	0.684	--	--	15	10/15/2024	NA	12/2/2019
MW-38R	Lead	11/17/2020	<4.0	0.518	<4.0	0.684	--	--	15	10/15/2024	NA	12/2/2019
MW-38R	Lead	5/6/2021	**0.601**	0.518	**0.601**	0.684	--	--	15	10/15/2024	NA	12/2/2019
MW-38R	Lead	4/6/2022	**0.684**	0.518	**0.684**	0.684	--	--	15	10/15/2024	NA	12/2/2019
MW-38R	Lead	8/23/2022	<4.0	0.518	<4.0	0.684	--	--	15	10/15/2024	NA	12/2/2019
MW-38R	Lead	3/8/2023	<4.0	0.518	<4.0	0.684	--	--	15	10/15/2024	NA	12/2/2019
MW-38R	Lead	9/13/2023	<4.0	0.518	<4.0	0.684	--	--	15	10/15/2024	NA	12/2/2019
MW-38R	Lead	5/29/2024	<4.0	0.518	<4.0	0.684	0.250	0.684	15	10/15/2024	NA	12/2/2019
MW-38R	Lead	10/15/2024	**14.5**	0.518	**14.5**	0.684	0.000	12.194	15	10/15/2024	NA	12/2/2019

Table 7
Summary of Ongoing & Newly Identified SSI
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Permit No. 15-SDP-01-75C

KEY:	Interwell SSI	Intrawell SSI	SSL LCL>GWPS	SSL UCL>GWPS

Note: The absence of shading indicates that the condition does not exist.

Monitoring Well	Compound	Sample Date	Each Result (ug/L)	Interwell Prediction Limit (ug/L)	Each Result (ug/L)	Intrawell Control Limit (ug/L)	95% LCL (ug/L)	95% UCL (ug/L)	GWPS Limit (ug/L)	SSI Initial Exceedance	Resamples Due	5th Background Sample
MW-38R	Nickel	11/27/2018	**6.25**	6.30	**6.25**	26.0791	--	--	100	5/29/2024	NA	12/2/2019
MW-38R	Nickel	3/18/2019	<4.0	6.30	<4.0	26.0791	--	--	100	5/29/2024	NA	12/2/2019
MW-38R	Nickel	6/5/2019	**11.00**	6.30	**11.00**	26.0791	--	--	100	5/29/2024	NA	12/2/2019
MW-38R	Nickel	8/22/2019	**10.80**	6.30	**10.80**	26.0791	--	--	100	5/29/2024	NA	12/2/2019
MW-38R	Nickel	12/2/2019	**10.80**	6.30	**10.80**	26.0791	--	--	100	5/29/2024	NA	12/2/2019
MW-38R	Nickel	2/28/2020	**10.50**	6.30	**10.50**	26.0791	--	--	100	5/29/2024	NA	12/2/2019
MW-38R	Nickel	3/30/2020	**8.99**	6.30	**8.99**	26.0791	--	--	100	5/29/2024	NA	12/2/2019
MW-38R	Nickel	11/17/2020	**8.11**	6.30	**8.11**	26.0791	--	--	100	5/29/2024	NA	12/2/2019
MW-38R	Nickel	5/6/2021	**7.39**	6.30	**7.39**	26.0791	--	--	100	5/29/2024	NA	12/2/2019
MW-38R	Nickel	4/6/2022	<4.0	6.30	<4.0	26.0791	--	--	100	5/29/2024	NA	12/2/2019
MW-38R	Nickel	8/23/2022	<4.0	6.30	<4.0	26.0791	--	--	100	5/29/2024	NA	12/2/2019
MW-38R	Nickel	3/8/2023	**5.69**	6.30	**5.69**	26.0791	--	--	100	5/29/2024	NA	12/2/2019
MW-38R	Nickel	9/13/2023	<4.0	6.30	<4.0	26.0791	--	--	100	5/29/2024	NA	12/2/2019
MW-38R	Nickel	5/29/2024	**135.00**	6.30	**135.00**	26.0791	2.770	135.000	100	5/29/2024	NA	12/2/2019
MW-38R	Nickel	10/15/2024	**145.00**	6.30	**145.00**	26.0791	0.000	164.532	100	5/29/2024	NA	12/2/2019

Table 7
Summary of Ongoing & Newly Identified SSI
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Cass County Sanitary Landfill
Permit No. 15-SDP-01-75C

KEY:	Interwell SSI	Intrawell SSI	SSL LCL>GWPS	SSL UCL>GWPS

Note: The absence of shading indicates that the condition does not exist.

Monitoring Well	Compound	Sample Date	Each Result (ug/L)	Interwell Prediction Limit (ug/L)	Each Result (ug/L)	Intrawell Control Limit (ug/L)	95% LCL (ug/L)	95% UCL (ug/L)	GWPS Limit (ug/L)	SSI Initial Exceedance	Resamples Due	5th Background Sample
MW-38R	Selenium	11/27/2018	<4.0	5.0	<4.0	93.59	--	--	50	NA	NA	12/2/2019
MW-38R	Selenium	3/18/2019	<4.0	5.0	<4.0	93.59	--	--	50	NA	NA	12/2/2019
MW-38R	Selenium	6/5/2019	<4.0	5.0	<4.0	93.59	--	--	50	NA	NA	12/2/2019
MW-38R	Selenium	8/22/2019	<4.0	5.0	<4.0	93.59	--	--	50	NA	NA	12/2/2019
MW-38R	Selenium	12/2/2019	<4.0	5.0	<4.0	93.59	--	--	50	NA	NA	12/2/2019
MW-38R	Selenium	2/28/2020	<4.0	5.0	<4.0	93.59	--	--	50	NA	NA	12/2/2019
MW-38R	Selenium	3/30/2020	<4.0	5.0	<4.0	93.59	--	--	50	NA	NA	12/2/2019
MW-38R	Selenium	11/17/2020	<4.0	5.0	<4.0	93.59	--	--	50	NA	NA	12/2/2019
MW-38R	Selenium	5/6/2021	<4.0	5.0	<4.0	93.59	--	--	50	NA	NA	12/2/2019
MW-38R	Selenium	4/6/2022	**13.60**	5.0	**13.60**	93.59	--	--	50	NA	NA	12/2/2019
MW-38R	Selenium	8/23/2022	**10.30**	5.0	**10.30**	93.59	--	--	50	NA	NA	12/2/2019
MW-38R	Selenium	3/8/2023	**29.10**	5.0	**29.10**	93.59	--	--	50	NA	NA	12/2/2019
MW-38R	Selenium	9/13/2023	**26.40**	5.0	**26.40**	93.59	--	--	50	NA	NA	12/2/2019
MW-38R	Selenium	5/29/2024	**43.20**	5.0	**43.20**	93.59	0.000	33.210	50	NA	NA	12/2/2019
MW-38R	Selenium	10/15/2024	**7.80**	5.0	**7.80**	93.59	9.508	43.742	50	NA	NA	12/2/2019

Table 7
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Cass County Sanitary Landfill
Permit No. 15-SDP-01-75C

KEY:	Interwell SSI	Intrawell SSI	SSL LCL>GWPS	SSL UCL>GWPS

Note: The absence of shading indicates that the condition does not exist.

Monitoring Well	Compound	Sample Date	Each Result (ug/L)	Interwell Prediction Limit (ug/L)	Each Result (ug/L)	Intrawell Control Limit (ug/L)	95% LCL (ug/L)	95% UCL (ug/L)	GWPS Limit (ug/L)	SSI Initial Exceedance	Resamples Due	5th Background Sample
MW-38R	Vanadium	11/27/2018	<20.0	5.0	<20.0	1.54	--	--	35	10/15/2024	NA	12/2/2019
MW-38R	Vanadium	3/18/2019	<20.0	5.0	<20.0	1.54	--	--	35	10/15/2024	NA	12/2/2019
MW-38R	Vanadium	6/5/2019	<20.0	5.0	<20.0	1.54	--	--	35	10/15/2024	NA	12/2/2019
MW-38R	Vanadium	8/22/2019	<20.0	5.0	<20.0	1.54	--	--	35	10/15/2024	NA	12/2/2019
MW-38R	Vanadium	12/2/2019	<20.0	5.0	<20.0	1.54	--	--	35	10/15/2024	NA	12/2/2019
MW-38R	Vanadium	2/28/2020	<20.0	5.0	<20.0	1.54	--	--	35	10/15/2024	NA	12/2/2019
MW-38R	Vanadium	3/30/2020	<20.0	5.0	<20.0	1.54	--	--	35	10/15/2024	NA	12/2/2019
MW-38R	Vanadium	11/17/2020	<20.0	5.0	<20.0	1.54	--	--	35	10/15/2024	NA	12/2/2019
MW-38R	Vanadium	5/6/2021	<20.0	5.0	<20.0	1.54	--	--	35	10/15/2024	NA	12/2/2019
MW-38R	Vanadium	4/6/2022	<20.0	5.0	<20.0	1.54	--	--	35	10/15/2024	NA	12/2/2019
MW-38R	Vanadium	8/23/2022	<20.0	5.0	<20.0	1.54	--	--	35	10/15/2024	NA	12/2/2019
MW-38R	Vanadium	3/8/2023	<20.0	5.0	<20.0	1.54	--	--	35	10/15/2024	NA	12/2/2019
MW-38R	Vanadium	9/13/2023	<20.0	5.0	<20.0	1.54	--	--	35	10/15/2024	NA	12/2/2019
MW-38R	Vanadium	5/29/2024	<20.0	5.0	<20.0	1.54	--	--	35	10/15/2024	NA	12/2/2019
MW-38R	Vanadium	10/15/2024	**59.30**	5.0	**59.30**	1.54	0.000	49.827	35	10/15/2024	NA	12/2/2019

Table 7
Summary of Ongoing & Newly Identified SSI
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KEY:	Interwell SSI	Intrawell SSI	SSL LCL>GWPS	SSL UCL>GWPS

Note: The absence of shading indicates that the condition does not exist.

Monitoring Well	Compound	Sample Date	Each Result (ug/L)	Interwell Prediction Limit (ug/L)	Each Result (ug/L)	Intrawell Control Limit (ug/L)	95% LCL (ug/L)	95% UCL (ug/L)	GWPS Limit (ug/L)	SSI Initial Exceedance	Resamples Due	5th Background Sample
MW-38R	Zinc	11/27/2018	<20.0	185.0	<20.0	20.0	--	--	2,000	NA	NA	12/2/2019
MW-38R	Zinc	3/18/2019	<20.0	185.0	<20.0	20.0	--	--	2,000	NA	NA	12/2/2019
MW-38R	Zinc	6/5/2019	<20.0	185.0	<20.0	20.0	--	--	2,000	NA	NA	12/2/2019
MW-38R	Zinc	8/22/2019	<20.0	185.0	<20.0	20.0	--	--	2,000	NA	NA	12/2/2019
MW-38R	Zinc	12/2/2019	<20.0	185.0	<20.0	20.0	--	--	2,000	NA	NA	12/2/2019
MW-38R	Zinc	2/28/2020	<20.0	185.0	<20.0	20.0	--	--	2,000	NA	NA	12/2/2019
MW-38R	Zinc	3/30/2020	<20.0	185.0	<20.0	20.0	--	--	2,000	NA	NA	12/2/2019
MW-38R	Zinc	11/17/2020	<20.0	185.0	<20.0	20.0	--	--	2,000	NA	NA	12/2/2019
MW-38R	Zinc	5/6/2021	<20.0	185.0	<20.0	20.0	--	--	2,000	NA	NA	12/2/2019
MW-38R	Zinc	4/6/2022	<20.0	185.0	<20.0	20.0	--	--	2,000	NA	NA	12/2/2019
MW-38R	Zinc	8/23/2022	<20.0	185.0	<20.0	20.0	--	--	2,000	NA	NA	12/2/2019
MW-38R	Zinc	3/8/2023	<20.0	185.0	<20.0	20.0	--	--	2,000	NA	NA	12/2/2019
MW-38R	Zinc	9/13/2023	<20.0	185.0	<20.0	20.0	--	--	2,000	NA	NA	12/2/2019
MW-38R	Zinc	5/29/2024	<20.0	185.0	<20.0	20.0	--	--	2,000	NA	NA	12/2/2019
MW-38R	Zinc	10/15/2024	**44.00**	185.0	**44.00**	20.0	0.000	38.497	2,000	NA	NA	12/2/2019

Table 7

Summary of Ongoing & Newly Identified SSI

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Permit No. 15-SDP-01-75C

KEY:	Interwell SSI	Intrawell SSI	SSL LCL>GWPS	SSL UCL>GWPS

Note: The absence of shading indicates that the condition does not exist.

Monitoring Well	Compound	Sample Date	Each Result (ug/L)	Interwell Prediction Limit (ug/L)	Each Result (ug/L)	Intrawell Control Limit (ug/L)	95% LCL (ug/L)	95% UCL (ug/L)	GWPS Limit (ug/L)	SSI Initial Exceedance	Resamples Due	5th Background Sample
MW-39	Selenium	2/15/2016	**74.90**	5.0	**74.90**	193.27	--	--	50	NA	NA	6/6/2018
MW-39	Selenium	10/31/20216	**70.40**	5.0	**70.40**	193.27	--	--	50	NA	NA	6/6/2018
MW-39	Selenium	3/27/2017	**77.20**	5.0	**77.20**	193.27	--	--	50	NA	NA	6/6/2018
MW-39	Selenium	11/13/2017	**71.85**	5.0	**71.85**	193.27	--	--	50	NA	NA	6/6/2018
MW-39	Selenium	6/6/2018	**74.50**	5.0	**74.50**	193.27	--	--	50	NA	NA	6/6/2018
MW-39	Selenium	11/27/2018	**76.00**	5.0	**76.00**	193.27	--	--	50	NA	NA	6/6/2018
MW-39	Selenium	3/18/2019	**76.40**	5.0	**76.40**	193.27	--	--	50	NA	NA	6/6/2018
MW-39	Selenium	12/2/2019	**74.80**	5.0	**74.80**	193.27	--	--	50	NA	NA	6/6/2018
MW-39	Selenium	3/30/2020	**73.10**	5.0	**73.10**	193.27	--	--	50	NA	NA	6/6/2018
MW-39	Selenium	11/17/2020	**71.30**	5.0	**71.30**	193.27	--	--	50	NA	NA	6/6/2018
MW-39	Selenium	5/6/2021	**80.10**	5.0	**80.10**	193.27	--	--	50	NA	NA	6/6/2018
MW-39	Selenium	10/7/2021	**74.60**	5.0	**74.60**	193.27	--	--	50	NA	NA	6/6/2018
MW-39	Selenium	4/6/2022	**79.10**	5.0	**79.10**	193.27	--	--	50	NA	NA	6/6/2018
MW-39	Selenium	8/23/2022	**79.90**	5.0	**79.90**	193.27	--	--	50	NA	NA	6/6/2018
MW-39	Selenium	3/8/2023	**79.40**	5.0	**79.40**	193.27	--	--	50	NA	NA	6/6/2018
MW-39	Selenium	9/13/2023	**75.05**	5.0	**75.05**	193.27	--	--	50	NA	NA	6/6/2018
MW-39	Selenium	5/29/2024	**71.40**	5.0	**71.40**	193.27	71.300	80.100	50	NA	NA	6/6/2018
MW-39	Selenium	10/15/2024	**63.60**	5.0	**63.60**	193.27	64.488	80.237	50	NA	NA	6/6/2018
									193.27?			

Table 8 - Summary of Ongoing and Newly Identified SS **- (Not Required)**

Table 9 – Analytical Data Summary

Table 9

Analytical Data Summary for MW-11

Constituents	Units	2/11/2008	4/30/2008	7/9/2008	9/11/2008	12/10/2008	3/3/2009	8/21/2009	10/21/2009
1,1,1,2-Tetrachloroethane	ug/L	<.33	<.33	<.33	<1.00	<1.00	<1.00	<1.00	
1,1,1-Trichloroethane	ug/L	<.19	<.19	<.19	<1.00	<1.00	<1.00	<1.00	
1,1,2,2-Tetrachloroethane	ug/L	<.23	<.23	<.23	<1.00	<1.00	<1.00	<1.00	
1,1,2-Trichloroethane	ug/L	<.37	<.37	<.37	<1.00	<1.00	<1.00	<1.00	
1,1-Dichloroethane	ug/L	<.19	<.19	<.19	<1.00	<1.00	<1.00	<1.00	
1,1-Dichloroethene	ug/L	<.37	<.37	<.37	<2.00	<2.00	<2.00	<2.00	
1,1-Dichloropropene	ug/L							<1	
1,2,3-Trichloropropane	ug/L	<.7	<.7	<.7	<1.0	<1.0	<1.0	<1.0	
1,2,4,5-Tetrachlorobenzene	ug/L							<10.0	
1,2,4-Trichlorobenzene	ug/L							<5	
1,2-Dibromo-3-Chloropropane	ug/L	<.860	<.860	<.860	<.860	<.860	<.860	<10.000	
1,2-Dibromoethane	ug/L	<.250	<.250	<.250	<.250	<.250	<.250	<10.000	
1,2-Dichlorobenzene	ug/L	<.21	<.21	<.21	<1.00	<1.00	<1.00	<1.00	
1,2-Dichloroethane	ug/L	<.2	<.2	<.2	<1.0	<1.0	<1.0	<1.0	
1,2-Dichloropropane	ug/L	<.4	<.4	<.4	<1.0	<1.0	<1.0	<1.0	
1,3,5-Trinitrobenzene	ug/L							<10.0	
1,3-Dichlorobenzene	ug/L							<1	
1,3-Dichloropropane	ug/L							<1	
1,3-Dinitrobenzene	ug/L							<10.0	
1,4-Dichlorobenzene	ug/L	<1.00	<1.00	<.16	<1.00	<1.00	<1.00	<1.00	
1,4-Naphthoquinone	ug/L							<10.0	
1,4-Phenylenediamine	ug/L							<10.0	
1-Naphthylamine	ug/L							<10.0	
2,2-Dichloropropane	ug/L							<4	
2,3,4,6-Tetrachlorophenol	ug/L							<10.0	
2,4,5-T [2C]	ug/L							<.22	
2,4,5-TP [Silvex] [2C]	ug/L							<.22	
2,4,5-Trichlorophenol	ug/L							<10.0	
2,4,6-Trichlorophenol	ug/L							<10.0	
2,4-D [2C]	ug/L							<1.10	
2,4-Dichlorophenol	ug/L							<10.0	
2,4-Dimethylphenol	ug/L							<10.0	
2,4-Dinitrophenol	ug/L							<20.0	
2,4-Dinitrotoluene	ug/L							<10.0	
2,6-Dichlorophenol	ug/L							<10.0	
2,6-Dinitrotoluene	ug/L							<10.0	
2-Acetylaminofluorene	ug/L							<10.0	
2-Butanone	ug/L	<.91	<.91	<.91	<10.00	<10.00	<10.00	<10.00	
2-Chloronaphthalene	ug/L							<10.0	
2-Chlorophenol	ug/L							<10.0	
2-Hexanone	ug/L	<1.76	<1.76	<1.76	<10.00	<10.00	<10.00	<10.00	
2-Methylnaphthalene	ug/L							<10.0	
2-Methylphenol	ug/L							<10.0	
2-Naphthylamine	ug/L							<10.0	
2-Nitroaniline	ug/L							<10.0	
2-Nitrophenol	ug/L							<10.0	
3,3-Dichlorobenzidine	ug/L							<10.0	
3,3-Dimethylbenzidine	ug/L							<10.0	
3/4-Methylphenol	ug/L							<10.0	
3-Chloropropene	ug/L							<2	
3-Methylcholanthrene	ug/L							<10.0	
3-Nitroaniline	ug/L							<10.0	
4,4`-DDD	ug/L							<.0320	
4,4`-DDE	ug/L							<.0320	
4,4`-DDT	ug/L							<.0320	
4,6-Dinitro-2-methylphenol	ug/L							<10.0	
4-Aminobiphenyl	ug/L							<10.0	
4-Bromophenyl phenyl ether	ug/L							<10.0	
4-Chloro-3-methylphenol	ug/L							<10.0	
4-Chloroaniline	ug/L							<10.0	
4-Chlorophenyl phenyl ether	ug/L							<10.0	
4-Methyl-2-Pentanone	ug/L	<.31	<.31	<.31	<10.00	<10.00	<10.00	<10.00	
4-Nitroaniline	ug/L							<10.0	
4-Nitrophenol	ug/L							<10.0	
5-Nitro-o-toluidine	ug/L							<10.0	
7,12-Dimethylbenz [a] anthracene	ug/L							<10.0	
Acenaphthene	ug/L							<10.0	
Acenaphthylene	ug/L							<10.0	
Acetone	ug/L	<4.62	<4.62	<4.62	<10.00	<10.00	<10.00	<10.00	
Acetonitrile	ug/L							<10000	
Acetophenone	ug/L							<10.0	
Acrolein	ug/L							<10	
Acrylonitrile	ug/L	<1.28	<1.28	<1.28	<10.00	<10.00	<10.00	<10.00	
Aldrin	ug/L							<.0320	
alpha-BHC	ug/L							<.0320	
Anthracene	ug/L							<10.0	
Antimony	ug/L	<6	<6	<6	<6	<6	<6	<6	<6

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-11

Constituents	3/11/2010	8/31/2010	2/16/2011	10/27/2011	4/26/2012	10/9/2012	2/20/2013	5/15/2013	10/3/2013
1,1,1,2-Tetrachloroethane	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00		<1.00
1,1,1-Trichloroethane	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00		<1.00
1,1,2,2-Tetrachloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00		<1.00
1,1,2-Trichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00		<1.00
1,1-Dichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00		<1.00
1,1-Dichloroethene	<2.00	<2.00	<2.00	<2.00	<1.00	<2.00	<2.00		<2.00
1,1-Dichloropropene		<1		<1					
1,2,3-Trichloropropane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0		<1.0
1,2,4,5-Tetrachlorobenzene		<10.0		<10.0					
1,2,4-Trichlorobenzene		<5		<5					
1,2-Dibromo-3-Chloropropane	<.498	<10.000	<.120	<.120	<.200	<.120	<.120		<.120
1,2-Dibromoethane	<.255	<10.000	<.130	<.130	<.050	<.130	<.130		<.130
1,2-Dichlorobenzene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00		<1.00
1,2-Dichloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0		<1.0
1,2-Dichloropropane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0		<1.0
1,3,5-Trinitrobenzene		<10.0		<10.0					
1,3-Dichlorobenzene		<1		<1					
1,3-Dichloropropane		<1		<1					
1,3-Dinitrobenzene		<10.0		<10.0					
1,4-Dichlorobenzene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00		<1.00 *
1,4-Naphthoquinone		<10.0		<10.0					
1,4-Phenylenediamine		<10.0		<10.0					
1-Naphthylamine		<10.0		<10.0					
2,2-Dichloropropane		<4		<4					
2,3,4,6-Tetrachlorophenol		<10.0		<10.0					
2,4,5-T [2C]		<.50		<1.00					
2,4,5-TP [Silvex] [2C]		<.50		<1.00					
2,4,5-Trichlorophenol		<10.0		<10.0					
2,4,6-Trichlorophenol		<10.0		<10.0					
2,4-D [2C]		<1.00		<1.00					
2,4-Dichlorophenol		<10.0		<10.0					
2,4-Dimethylphenol		<10.0		<10.0					
2,4-Dinitrophenol		<20.0		<20.0					
2,4-Dinitrotoluene		<10.0		<10.0					
2,6-Dichlorophenol		<10.0		<10.0					
2,6-Dinitrotoluene		<10.0		<10.0					
2-Acetylaminofluorene		<10.0		<10.0					
2-Butanone	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00		<10.00
2-Chloronaphthalene		<10.0		<10.0					
2-Chlorophenol		<10.0		<10.0					
2-Hexanone	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00		<10.00
2-Methylnaphthalene		<10.0		<10.0					
2-Methylphenol		<10.0		<10.0					
2-Naphthylamine		<10.0		<10.0					
2-Nitroaniline		<10.0		<10.0					
2-Nitrophenol		<10.0		<10.0					
3,3-Dichlorobenzidine		<10.0		<10.0					
3,3-Dimethylbenzidine		<10.0		<10.0					
3/4-Methylphenol		<10.0		<10.0					
3-Chloropropene		<2		<2					
3-Methylcholanthrene		<10.0		<10.0					
3-Nitroaniline		<10.0		<10.0					
4,4`-DDD		<.0320		<.0320					
4,4`-DDE		<.0320		<.0320					
4,4`-DDT		<.0320		<.0320					
4,6-Dinitro-2-methylphenol		<10.0		<10.0					
4-Aminobiphenyl		<10.0		<10.0					
4-Bromophenyl phenyl ether		<10.0		<10.0					
4-Chloro-3-methylphenol		<10.0		<10.0					
4-Chloroaniline		<10.0		<10.0					
4-Chlorophenyl phenyl ether		<10.0		<10.0					
4-Methyl-2-Pentanone	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00		<10.00
4-Nitroaniline		<10.0		<10.0					
4-Nitrophenol		<10.0		<10.0					
5-Nitro-o-toluidine		<10.0		<10.0					
7,12-Dimethylbenz [a] anthracene		<10.0		<10.0					
Acenaphthene		<10.0		<10.0					
Acenaphthylene		<10.0		<10.0					
Acetone	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00		<10.00
Acetonitrile		<10000		<10000					
Acetophenone		<10.0		<10.0					
Acrolein		<10		<10					
Acrylonitrile	<10.00	<10.00	<10.00	<10.00	<5.00	<10.00	<10.00		<10.00
Aldrin		<.0320		<.0320					
alpha-BHC		<.0320		<.0320					
Anthracene		<10.0		<10.0					
Antimony	<6	<6	<6	<6	<6	<6	<6		<4 *

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-11

Constituents	4/22/2014	10/14/2014	5/12/2015	7/29/2015	2/15/2016	10/31/2016	3/27/2017	11/13/2017	6/6/2018
1,1,1,2-Tetrachloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1,1-Trichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1,2,2-Tetrachloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1,2-Trichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1-Dichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1-Dichloroethene	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00
1,1-Dichloropropene					<1				
1,2,3-Trichloropropane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,4,5-Tetrachlorobenzene					<10.5				
1,2,4-Trichlorobenzene					<5				
1,2-Dibromo-3-Chloropropane	<.120	<.120	<.500	<.500	<.500	<.500	<.500	<.500	<.500
1,2-Dibromoethane	<.130	<.130	<.130	<.130	<.130	<.130	<.130	<.130	<.130
1,2-Dichlorobenzene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-Dichloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3,5-Trinitrobenzene					<10.5				
1,3-Dichlorobenzene					<1				
1,3-Dichloropropane					<1				
1,3-Dinitrobenzene					<10.5				
1,4-Dichlorobenzene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,4-Naphthoquinone					<10.5				
1,4-Phenylenediamine					<10.5				
1-Naphthylamine					<10.5				
2,2-Dichloropropane					<4				
2,3,4,6-Tetrachlorophenol					<10.5				
2,4,5-T [2C]					<1.12				
2,4,5-TP [Silvex] [2C]					<1.12				
2,4,5-Trichlorophenol					<10.5				
2,4,6-Trichlorophenol					<10.5				
2,4-D [2C]					<1.12				
2,4-Dichlorophenol					<10.5				
2,4-Dimethylphenol					<10.5				
2,4-Dinitrophenol					<21.1				
2,4-Dinitrotoluene					<10.5				
2,6-Dichlorophenol					<10.5				
2,6-Dinitrotoluene					<10.5				
2-Acetylaminofluorene					<10.5				
2-Butanone	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00
2-Chloronaphthalene					<10.5				
2-Chlorophenol					<10.5				
2-Hexanone	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00
2-Methylnaphthalene					<10.5				
2-Methylphenol					<10.5				
2-Naphthylamine					<10.5				
2-Nitroaniline					<10.5				
2-Nitrophenol					<10.5				
3,3-Dichlorobenzidine					<52.6				
3,3-Dimethylbenzidine					<10.5				
3/4-Methylphenol					<10.5				
3-Chloropropene					<2				
3-Methylcholanthrene					<10.5				
3-Nitroaniline					<10.5				
4,4`-DDD					<.0333				
4,4`-DDE					<.0333				
4,4`-DDT					<.0333				
4,6-Dinitro-2-methylphenol					<10.5				
4-Aminobiphenyl					<10.5				
4-Bromophenyl phenyl ether					<10.5				
4-Chloro-3-methylphenol					<.1				
4-Chloroaniline					<10.5				
4-Chlorophenyl phenyl ether					<10.5				
4-Methyl-2-Pentanone	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00
4-Nitroaniline					<10.5				
4-Nitrophenol					<10.5				
5-Nitro-o-toluidine					<10.5				
7,12-Dimethylbenz [a] anthracene					<10.5				
Acenaphthene					<10.5				
Acenaphthylene					<10.5				
Acetone	<10.00	<10.00	16.50	<10.00	<10.00	<10.00	<10.00 *	<10.00	<10.00
Acetonitrile					<10000				
Acetophenone					<10.5				
Acrolein					<10				
Acrylonitrile	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00
Aldrin					<.0333				
alpha-BHC					<.0333				
Anthracene					<10.5				
Antimony	<6	<6	<6	<1	<1	<1	<1	<1	<3

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-11

Constituents	11/26/2018	3/18/2019	12/2/2019	3/30/2020	11/17/2020	5/6/2021	10/7/2021	4/6/2022	8/23/2022
1,1,1,2-Tetrachloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1,1-Trichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1,2,2-Tetrachloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1,2-Trichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1-Dichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1-Dichloroethene	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00
1,1-Dichloropropene						<1			
1,2,3-Trichloropropane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,4,5-Tetrachlorobenzene						<10.8			
1,2,4-Trichlorobenzene						<5			
1,2-Dibromo-3-Chloropropane	<.500	<1.200	<1.200	<5.000	<5.000	<5.000	<5.000	<5.000	<5.000
1,2-Dibromoethane	<.130	<.340	<.340	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000
1,2-Dichlorobenzene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-Dichloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3,5-Trinitrobenzene						<10.8			
1,3-Dichlorobenzene						<1			
1,3-Dichloropropane						<1			
1,3-Dinitrobenzene						<10.8			
1,4-Dichlorobenzene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,4-Naphthoquinone						<10.8			
1,4-Phenylenediamine						<10.8			
1-Naphthylamine						<10.8			
2,2-Dichloropropane						<4			
2,3,4,6-Tetrachlorophenol						<10.8			
2,4,5-T [2C]						<1.08			
2,4,5-TP [Silvex] [2C]						<1.08			
2,4,5-Trichlorophenol						<10.8			
2,4,6-Trichlorophenol						<10.8			
2,4-D [2C]						<1.08			
2,4-Dichlorophenol						<10.8			
2,4-Dimethylphenol						<10.8			
2,4-Dinitrophenol						<21.5			
2,4-Dinitrotoluene						<10.8			
2,6-Dichlorophenol						<10.8			
2,6-Dinitrotoluene						<10.8			
2-Acetylaminofluorene						<10.8			
2-Butanone	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00
2-Chloronaphthalene						<10.8			
2-Chlorophenol						<10.8			
2-Hexanone	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00
2-Methylnaphthalene						<10.8			
2-Methylphenol						<10.8			
2-Naphthylamine						<10.8			
2-Nitroaniline						<10.8			
2-Nitrophenol						<10.8			
3,3-Dichlorobenzidine						<10.8			
3,3-Dimethylbenzidine						<10.8			
3/4-Methylphenol						<10.8			
3-Chloropropene						<2			
3-Methylcholanthrene						<10.8			
3-Nitroaniline						<10.8			
4,4`-DDD						<.0352			
4,4`-DDE						<.0352			
4,4`-DDT						<.0352			
4,6-Dinitro-2-methylphenol						<10.8			
4-Aminobiphenyl						<10.8			
4-Bromophenyl phenyl ether						<10.8			
4-Chloro-3-methylphenol						<10.8			
4-Chloroaniline						<10.8			
4-Chlorophenyl phenyl ether						<10.8			
4-Methyl-2-Pentanone	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00
4-Nitroaniline						<10.8			
4-Nitrophenol						<10.8			
5-Nitro-o-toluidine						<10.8			
7,12-Dimethylbenz [a] anthracene						<10.8			
Acenaphthene						<10.8			
Acenaphthylene						<10.8			
Acetone	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00
Acetonitrile						<10000			
Acetophenone						<10.8			
Acrolein						<10			
Acrylonitrile	<10.00	<10.00	<10.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Aldrin						<.0352			
alpha-BHC						<.0352			
Anthracene						<10.8			
Antimony	<1	<1	<1	<1	<1	<2	<2	<2	<2

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-11

Constituents	3/8/2023	9/13/2023	5/29/2024	10/15/2024
1,1,1,2-Tetrachloroethane	<1.00	<1.00	<1.00	<1.00
1,1,1-Trichloroethane	<1.00	<1.00	<1.00	<1.00
1,1,2,2-Tetrachloroethane	<1.00	<1.00	<1.00	<1.00
1,1,2-Trichloroethane	<1.00	<1.00	<1.00	<1.00
1,1-Dichloroethane	<1.00	<1.00	<1.00	<1.00
1,1-Dichloroethene	<2.00	<2.00	<2.00	<1.00
1,1-Dichloropropene				
1,2,3-Trichloropropane	<1.0	<1.0	<1.0	<1.0
1,2,4,5-Tetrachlorobenzene				
1,2,4-Trichlorobenzene				
1,2-Dibromo-3-Chloropropane	<5.000	<5.000	<5.000	<5.000
1,2-Dibromoethane	<1.000	<1.000	<1.000	<1.000
1,2-Dichlorobenzene	<1.00	<1.00	<1.00	<1.00
1,2-Dichloroethane	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane	<1.0	<1.0	<1.0	<1.0
1,3,5-Trinitrobenzene				
1,3-Dichlorobenzene				
1,3-Dichloropropane				
1,3-Dinitrobenzene				
1,4-Dichlorobenzene	<1.00	<1.00	<1.00	<1.00
1,4-Naphthoquinone				
1,4-Phenylenediamine				
1-Naphthylamine				
2,2-Dichloropropane				
2,3,4,6-Tetrachlorophenol				
2,4,5-T [2C]				
2,4,5-TP [Silvex] [2C]				
2,4,5-Trichlorophenol				
2,4,6-Trichlorophenol				
2,4-D [2C]				
2,4-Dichlorophenol				
2,4-Dimethylphenol				
2,4-Dinitrophenol				
2,4-Dinitrotoluene				
2,6-Dichlorophenol				
2,6-Dinitrotoluene				
2-Acetylaminofluorene				
2-Butanone	<10.00	<10.00	<10.00	<10.00
2-Chloronaphthalene				
2-Chlorophenol				
2-Hexanone	<10.00	<10.00	<10.00	<5.00
2-Methylnaphthalene				
2-Methylphenol				
2-Naphthylamine				
2-Nitroaniline				
2-Nitrophenol				
3,3-Dichlorobenzidine				
3,3-Dimethylbenzidine				
3/4-Methylphenol				
3-Chloropropene				
3-Methylcholanthrene				
3-Nitroaniline				
4,4`-DDD				
4,4`-DDE				
4,4`-DDT				
4,6-Dinitro-2-methylphenol				
4-Aminobiphenyl				
4-Bromophenyl phenyl ether				
4-Chloro-3-methylphenol				
4-Chloroaniline				
4-Chlorophenyl phenyl ether				
4-Methyl-2-Pentanone	<10.00	<10.00	<10.00	<5.00
4-Nitroaniline				
4-Nitrophenol				
5-Nitro-o-toluidine				
7,12-Dimethylbenz [a] anthracene				
Acenaphthene				
Acenaphthylene				
Acetone	<10.00	<10.00	<10.00	<10.00
Acetonitrile				
Acetophenone				
Acrolein				
Acrylonitrile	<5.00	<5.00	<5.00	<5.00
Aldrin				
alpha-BHC				
Anthracene				
Antimony	<1	<2	<2	<2

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-11

Constituents	Units	2/11/2008	4/30/2008	7/9/2008	9/11/2008	12/10/2008	3/3/2009	8/21/2009	10/21/2009
Arsenic	ug/L	3.01	5.43	4.22	2.15	5.60	3.88	3.00	3.97
Barium	ug/L	786	963	915	606	754	1480	471	714
Benzene	ug/L	.29	.18	.34	<.50	<.50	.83	<.50	
Benzo [a] anthracene	ug/L							<10.0	
Benzo [a] pyrene	ug/L							<10.0	
Benzo [b] fluoranthene	ug/L							<10.0	
Benzo [g,h,i] perylene	ug/L							<10.0	
Benzo [k] fluoranthene	ug/L							<10.0	
Benzyl alcohol	ug/L							<10.0	
Beryllium	ug/L	<1.000	<.028	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000
beta-BHC	ug/L							<.0320	
Bis[2-chloroethoxy]methane	ug/L							<10.0	
Bis[2-chloroethyl]ether	ug/L							<10.0	
Bis[2-chloroisopropyl]ether	ug/L							<10.0	
Bis[2-ethylhexyl]phthalate	ug/L							<10.0	
Bromochloromethane	ug/L	<.76	<.76	<.76	<5.00	<5.00	<5.00	<5.00	
Bromodichloromethane	ug/L	<.2	<.2	<.2	<1.0	<1.0	<1.0	<1.0	
Bromoform	ug/L	<.43	<.43	<.43	<5.00	<5.00	<5.00	<5.00	
Bromomethane	ug/L	<.48	<.48	<.48	<4.00	<4.00	<4.00	<4.00	
Butyl benzyl phthalate	ug/L							<10.0	
Cadmium	ug/L	.673	2.630	1.350	7.800	2.940	1.120	1.030	1.120
Carbon Disulfide	ug/L	<.18	<.18	<.18	<1.00	<1.00	<1.00	<1.00	
Carbon Tetrachloride	ug/L	<.31	<.31	<.31	<2.00	<2.00	<2.00	<2.00	
Chlordane	ug/L							<2.00	
Chlorobenzene	ug/L	.380	.210	<.170	<1.000	<1.000	<1.000	<1.000	
Chlorobenzilate	ug/L							<10.0	
Chlorodibromomethane	ug/L	.30	<.26	<.26	<5.00	<5.00	<5.00	<5.00	
Chloroethane	ug/L	<.5	<.5	<.5	<4.0	<4.0	<4.0	<4.0	
Chloroform	ug/L	<.17	<.17	<.17	<1.00	<2.50	<1.00	<1.00	
Chloromethane	ug/L	<.2	<.2	<.2	<3.0	<3.0	<3.0	<3.0	
Chloroprene	ug/L							<1	
Chromium	ug/L	<20.00	<1.73	<20.00	<20.00	<20.00	<20.00	<20.00	<20.00
Chrysene	ug/L							<10.0	
cis-1,2-Dichloroethene	ug/L	1.120	<.370	1.360	<1.000	1.280	2.360	<1.000	
cis-1,3-Dichloropropene	ug/L	<.23	<.23	<.23	<5.00	<5.00	<5.00	<5.00	
Cobalt	ug/L	<20.00	<1.40	20.40	<20.00	<20.00	36.10	<20.00	<20.00
Copper	ug/L	<20.00	20.10	28.30	<20.00	<20.00	20.80	<20.00	<20.00
Cyanide	mg/L							<.010	
delta-BHC	ug/L							<.0320	
Diallate [cis or trans]	ug/L							<10.0	
Dibenz [a,h] anthracene	ug/L							<10.0	
Dibenzofuran	ug/L							<10.0	
Dichlorodifluoromethane	ug/L							<3	
Dieldrin	ug/L							<.0320	
Diethyl phthalate	ug/L							<10.0	
Dimethoate	ug/L							<10.0	
Dimethyl phthalate	ug/L							<10.0	
Dimethylaminoazobenzene	ug/L							<10.0	
Di-n-butyl phthalate	ug/L							<10.0	
Di-n-octyl phthalate	ug/L							<10.0	
Dinoseb	ug/L							<10.0	
Diphenylamine	ug/L							<10.0	
Disulfoton	ug/L							<10.0	
Endosulfan I	ug/L							<.0320	
Endosulfan II	ug/L							<.0320	
Endosulfan sulfate	ug/L							<.0320	
Endrin	ug/L							<.0320	
Endrin aldehyde	ug/L							<.0320	
Ethyl Methacrylate	ug/L							<2	
Ethyl Methanesulfonate	ug/L							<10.0	
Ethylbenzene	ug/L	<.25	<.25	<.25	<1.00	<1.00	<1.00	<1.00	
Famphur	ug/L							<20.0	
Fluoranthene	ug/L							<10.0	
Fluorene	ug/L							<10.0	
gamma-BHC [Lindane]	ug/L							<.0320	
Heptachlor	ug/L							<.0320	
Heptachlor Epoxide	ug/L							<.0320	
Hexachlorobenzene	ug/L							<10.0	
Hexachlorobutadiene	ug/L							<10.0	
Hexachlorocyclopentadiene	ug/L							<10.0	
Hexachloroethane	ug/L							<10.0	
Hexachloropropene	ug/L							<10.0	
Indeno [1,2,3-cd] pyrene	ug/L							<10.0	
Iodomethane	ug/L	<.4	<.4	<.4	<10.0	<10.0	<10.0	<10.0	
Isobutanol	ug/L							<10000	
Isodrin	ug/L							<10.0	
Isophorone	ug/L							<10.0	

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-11

Constituents	3/11/2010	8/31/2010	2/16/2011	10/27/2011	4/26/2012	10/9/2012	2/20/2013	5/15/2013	10/3/2013
Arsenic	1.09	<1.00	<1.00	3.88	10.20	3.54	4.12		17.25 *
Barium	347	148	332	351	423	330	468		535 *
Benzene	<.50	<.50	<.50	<.50	<.50	<.50	<.50		<1.00 *
Benzo [a] anthracene		<10.0		<10.0					
Benzo [a] pyrene		<10.0		<10.0					
Benzo [b] fluoranthene		<10.0		<10.0					
Benzo [g,h,i] perylene		<10.0		<10.0					
Benzo [k] fluoranthene		<10.0		<10.0					
Benzyl alcohol		<10.0		<10.0					
Beryllium	<1.000	<1.000	<1.000	<1.000	<4.000	<1.000	<1.000		<1.000
beta-BHC		<.0320		<.0320					
Bis[2-chloroethoxy]methane		<10.0		<10.0					
Bis[2-chloroethyl]ether		<10.0		<10.0					
Bis[2-chloroisopropyl]ether		<10.0		<10.0					
Bis[2-ethylhexyl]phthalate		<10.0		<10.0					
Bromochloromethane	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00		<5.00
Bromodichloromethane	<5.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0		<1.0
Bromoform	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00		<3.00 *
Bromomethane	<4.00	<4.00	<4.00	<20.00	<50.00	<5.00	<4.00		<4.00
Butyl benzyl phthalate		<10.0		<10.0					
Cadmium	7.060	3.350	3.470	1.970	<.800	1.110	.828		1.525 *
Carbon Disulfide	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00		<1.00
Carbon Tetrachloride	<10.00	<4.00	<2.00	<2.00	<2.00	<2.00	<2.00		<2.00
Chlordane		<2.00		<2.00					
Chlorobenzene	<5.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000		<1.000 *
Chlorobenzilate		<10.0		<10.0					
Chlorodibromomethane	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00		<5.00
Chloroethane	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0		<4.0
Chloroform	<1.00	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00		<1.00
Chloromethane	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0
Chloroprene		<1		<1					
Chromium	<20.00	<20.00	<20.00	<20.00	<20.00	<20.00	<20.00		<2.50 *
Chrysene		<10.0		<10.0					
cis-1,2-Dichloroethene	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000		1.125 *
cis-1,3-Dichloropropene	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00		<5.00
Cobalt	17.20	5.07	25.30	47.80	42.40	31.50	67.40		60.85 *
Copper	<20.00	<20.00	<20.00	<20.00	<20.00	<20.00	<20.00		<20.00
Cyanide		<.010		<.010					
delta-BHC		<.0320		<.0320					
Diallate [cis or trans]		<10.0		<10.0					
Dibenz [a,h] anthracene		<10.0		<10.0					
Dibenzofuran		<10.0		<10.0					
Dichlorodifluoromethane		<3		<3					
Dieldrin		<.0320		<.0320					
Diethyl phthalate		<10.0		<10.0					
Dimethoate		<10.0		<10.0					
Dimethyl phthalate		<10.0		<10.0					
Dimethylaminoazobenzene		<10.0		<10.0					
Di-n-butyl phthalate		<10.0		<10.0					
Di-n-octyl phthalate		<10.0		<10.0					
Dinoseb		<10.0		<10.0					
Diphenylamine		<10.0		<10.0					
Disulfoton		<10.0		<10.0					
Endosulfan I		<.0320		<.0320					
Endosulfan II		<.0320		<.0320					
Endosulfan sulfate		<.0320		<.0320					
Endrin		<.0320		<.0320					
Endrin aldehyde		<.0320		<.0320					
Ethyl Methacrylate		<2		<2					
Ethyl Methanesulfonate		<10.0		<10.0					
Ethylbenzene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00		<1.00
Famphur		<20.0		<20.0					
Fluoranthene		<10.0		<10.0					
Fluorene		<10.0		<10.0					
gamma-BHC [Lindane]		<.0320		<.0320					
Heptachlor		<.0320		<.0320					
Heptachlor Epoxide		<.0320		<.0320					
Hexachlorobenzene		<10.0		<10.0					
Hexachlorobutadiene		<10.0		<10.0					
Hexachlorocyclopentadiene		<10.0		<10.0					
Hexachloroethane		<10.0		<10.0					
Hexachloropropene		<10.0		<10.0					
Indeno [1,2,3-cd] pyrene		<10.0		<10.0					
Iodomethane	<10.0	<10.0	<10.0	<20.0	<10.0	<10.0	<10.0		<10.0
Isobutanol		<10000		<10000					
Isodrin		<10.0		<10.0					
Isophorone		<10.0		<10.0					

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-11

Constituents	4/22/2014	10/14/2014	5/12/2015	7/29/2015	2/15/2016	10/31/2016	3/27/2017	11/13/2017	6/6/2018
Arsenic	7.13	4.56	5.25	3.38	3.02	3.14	3.70 *	2.82	3.07
Barium	605	561	582	529	510	514	529 *	448	434
Benzene	<1.00	<.20	<1.00	<1.00	<1.00	<1.00	<1.00 *	<1.00	<.50
Benzo [a] anthracene					<10.5				
Benzo [a] pyrene					<10.5				
Benzo [b] fluoranthene					<10.5				
Benzo [g,h,i] perylene					<10.5				
Benzo [k] fluoranthene					<10.5				
Benzyl alcohol					<10.5				
Beryllium	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000
beta-BHC					<.0333				
Bis[2-chloroethoxy]methane					<10.5				
Bis[2-chloroethyl]ether					<10.5				
Bis[2-chloroisopropyl]ether					<10.5				
Bis[2-ethylhexyl]phthalate					<5.0				
Bromochloromethane	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Bromodichloromethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromoform	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Bromomethane	<4.00	<4.00	<4.00	<1.00	<1.00	<4.00	<4.00	<4.00	<4.00
Butyl benzyl phthalate					<10.5				
Cadmium	.969	.973	.984	<1.000	<.500	<1.000	<.500	<.500	.607
Carbon Disulfide	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Carbon Tetrachloride	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00
Chlordane					<2.08				
Chlorobenzene	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000 *	<1.000	<1.000
Chlorobenzilate					<10.5				
Chlorodibromomethane	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Chloroethane	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Chloroform	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<3.00
Chloromethane	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
Chloroprene					<1				
Chromium	<20.00	<20.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<4.00
Chrysene					<10.5				
cis-1,2-Dichloroethene	1.240	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000 *	1.020	<1.000
cis-1,3-Dichloropropene	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Cobalt	71.10	44.10	54.50	20.90	17.60	8.37	8.72 *	5.64	5.51
Copper	<20.00	<20.00	2.62	<2.00	<2.00	<5.00	<5.00	<5.00	<2.00
Cyanide					<.005				
delta-BHC					<.0333				
Diallate [cis or trans]					<10.5				
Dibenz [a,h] anthracene					<10.5				
Dibenzofuran					<10.5				
Dichlorodifluoromethane					<3				
Dieldrin					<.0030				
Diethyl phthalate					<10.5				
Dimethoate					<10.5				
Dimethyl phthalate					<10.5				
Dimethylaminoazobenzene					<10.5				
Di-n-butyl phthalate					<1.0				
Di-n-octyl phthalate					<5.0				
Dinoseb					<10.5				
Diphenylamine					<10.5				
Disulfoton					<10.5				
Endosulfan I					<.0040				
Endosulfan II					<.0333				
Endosulfan sulfate					<.0040				
Endrin					<.0100				
Endrin aldehyde					<.0100				
Ethyl Methacrylate					<2				
Ethyl Methanesulfonate					<10.5				
Ethylbenzene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Famphur					<21.1				
Fluoranthene					<10.5				
Fluorene					<10.5				
gamma-BHC [Lindane]					<.0040				
Heptachlor					<.0100				
Heptachlor Epoxide					<.0333				
Hexachlorobenzene					<10.5				
Hexachlorobutadiene					<10.5				
Hexachlorocyclopentadiene					<21.1				
Hexachloroethane					<10.5				
Hexachloropropene					<10.5				
Indeno [1,2,3-cd] pyrene					<10.5				
Iodomethane	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Isobutanol					<10000				
Isodrin					<10.5				
Isophorone					<10.5				

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-11

Constituents	11/26/2018	3/18/2019	12/2/2019	3/30/2020	11/17/2020	5/6/2021	10/7/2021	4/6/2022	8/23/2022
Arsenic	3.74	2.51	2.19	2.13	3.91 *	2.83	11.00	7.53 *	2.30
Barium	462	456	410	416	397 *	465	571	544 *	419
Benzene	<.50	<.50	<.50	<.50	<.50	<.50	<.50	<.50	<.50
Benzo [a] anthracene						<10.8			
Benzo [a] pyrene						<10.8			
Benzo [b] fluoranthene						<10.8			
Benzo [g,h,i] perylene						<10.8			
Benzo [k] fluoranthene						<10.8			
Benzyl alcohol						<10.8			
Beryllium	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000
beta-BHC						<.0352			
Bis[2-chloroethoxy]methane						<10.8			
Bis[2-chloroethyl]ether						<10.8			
Bis[2-chloroisopropyl]ether						<10.8			
Bis[2-ethylhexyl]phthalate						<10.8			
Bromochloromethane	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Bromodichloromethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromoform	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Bromomethane	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00
Butyl benzyl phthalate						<10.8			
Cadmium	<1.000	<1.000	<.100	<1.000	<1.000 *	<.100	<.100	<.100	.116
Carbon Disulfide	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Carbon Tetrachloride	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00
Chlordane						<2.20			
Chlorobenzene	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<.440 *	<1.000
Chlorobenzilate						<10.8			
Chlorodibromomethane	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Chloroethane	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Chloroform	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00
Chloromethane	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
Chloroprene						<1			
Chromium	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Chrysene						<10.8			
cis-1,2-Dichloroethene	<1.000	<1.000	<1.000	<1.000	<1.000 *	<.503	<.373	<.378 *	<1.000
cis-1,3-Dichloropropene	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Cobalt	4.58	4.10	3.54	3.29	9.93 *	9.32	14.80	10.70	6.19
Copper	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<2.01
Cyanide						<.010			
delta-BHC						<.0352			
Diallate [cis or trans]						<10.8			
Dibenz [a,h] anthracene						<10.8			
Dibenzofuran						<10.8			
Dichlorodifluoromethane						<3			
Dieldrin						<.0352			
Diethyl phthalate						<10.8			
Dimethoate						<10.8			
Dimethyl phthalate						<10.8			
Dimethylaminoazobenzene						<10.8			
Di-n-butyl phthalate						<10.8			
Di-n-octyl phthalate						<21.5			
Dinoseb						<10.8			
Diphenylamine						<10.8			
Disulfoton						<10.8			
Endosulfan I						<.0352			
Endosulfan II						<.0352			
Endosulfan sulfate						<.0352			
Endrin						<.0352			
Endrin aldehyde						<.0352			
Ethyl Methacrylate						<2			
Ethyl Methanesulfonate						<10.8			
Ethylbenzene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Famphur						<10.8			
Fluoranthene						<10.8			
Fluorene						<10.8			
gamma-BHC [Lindane]						<.0352			
Heptachlor						<.0352			
Heptachlor Epoxide						<.0352			
Hexachlorobenzene						<10.8			
Hexachlorobutadiene						<10.8			
Hexachlorocyclopentadiene						<10.8			
Hexachloroethane						<10.8			
Hexachloropropene						<10.8			
Indeno [1,2,3-cd] pyrene						<10.8			
Iodomethane	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Isobutanol						<10000			
Isodrin						<10.8			
Isophorone						<10.8			

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-11

Constituents	3/8/2023	9/13/2023	5/29/2024	10/15/2024
Arsenic	13.50	14.50	5.17	6.60
Barium	745	636	496	346
Benzene	<.50	<.50	<.50	<1.00
Benzo [a] anthracene				
Benzo [a] pyrene				
Benzo [b] fluoranthene				
Benzo [g,h,i] perylene				
Benzo [k] fluoranthene				
Benzyl alcohol				
Beryllium	<.338	<1.000	<1.000	<4.000
beta-BHC				
Bis[2-chloroethoxy]methane				
Bis[2-chloroethyl]ether				
Bis[2-chloroisopropyl]ether				
Bis[2-ethylhexyl]phthalate				
Bromochloromethane	<5.00	<5.00	<5.00	<1.00
Bromodichloromethane	<1.0	<1.0	<1.0	<1.0
Bromoform	<5.00	<5.00	<5.00	<1.00
Bromomethane	<4.00	<4.00	<4.00	<1.00
Butyl benzyl phthalate				
Cadmium	.259	.213	<.200	<.800
Carbon Disulfide	<1.00	<1.00	<1.00	<1.00
Carbon Tetrachloride	<2.00	<2.00	<2.00	<1.00
Chlordane				
Chlorobenzene	<.445	<1.000	<1.000	<1.000
Chlorobenzilate				
Chlorodibromomethane	<5.00	<5.00	<5.00	<1.00
Chloroethane	<4.0	<4.0	<4.0	<1.0
Chloroform	<3.00	<3.00	<3.00	<1.00
Chloromethane	<3.0	<3.0	<3.0	<1.0
Chloroprene				
Chromium	<5.00	<5.00	<5.00	<8.00
Chrysene				
cis-1,2-Dichloroethene	<1.000	<.299	<.477	<1.000
cis-1,3-Dichloropropene	<5.00	<5.00	<5.00	<1.00
Cobalt	13.40	11.30	6.63	3.00
Copper	<5.00	<1.81	<2.53	9.70
Cyanide				
delta-BHC				
Diallate [cis or trans]				
Dibenz [a,h] anthracene				
Dibenzofuran				
Dichlorodifluoromethane				
Dieldrin				
Diethyl phthalate				
Dimethoate				
Dimethyl phthalate				
Dimethylaminoazobenzene				
Di-n-butyl phthalate				
Di-n-octyl phthalate				
Dinoseb				
Diphenylamine				
Disulfoton				
Endosulfan I				
Endosulfan II				
Endosulfan sulfate				
Endrin				
Endrin aldehyde				
Ethyl Methacrylate				
Ethyl Methanesulfonate				
Ethylbenzene	<1.00	<1.00	<1.00	<1.00
Famphur				
Fluoranthene				
Fluorene				
gamma-BHC [Lindane]				
Heptachlor				
Heptachlor Epoxide				
Hexachlorobenzene				
Hexachlorobutadiene				
Hexachlorocyclopentadiene				
Hexachloroethane				
Hexachloropropene				
Indeno [1,2,3-cd] pyrene				
Iodomethane	<10.0	<10.0	<10.0	<1.0
Isobutanol				
Isodrin				
Isophorone				

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-11

Constituents	Units	2/11/2008	4/30/2008	7/9/2008	9/11/2008	12/10/2008	3/3/2009	8/21/2009	10/21/2009
Isosafrole	ug/L							<10.0	
Kepone	ug/L							<10.0	
Lead	ug/L	<4.000	7.420	4.720	<4.000	<4.000	5.140	<4.000	<4.000
MP-Xylene	ug/L								
Mercury	ug/L							<.2	
Methacrylonitrile	ug/L							<1	
Methapyrilene	ug/L							<10.0	
Methoxychlor	ug/L							<.0320	
Methyl Methacrylate	ug/L							<2	
Methyl Methanesulfonate	ug/L							<10.0	
Methylene Bromide	ug/L	<.3	<.3	<.3	<1.0	<1.0	<1.0	<1.0	
Methylene Chloride	ug/L	<.45	<.45	.50	<5.00	<5.00	<5.00	<5.00	
Naphthalene	ug/L							<5	
Nickel	ug/L	<50.00	<4.60	<50.00	<50.00	<50.00	82.20	<50.00	<50.00
Nitrobenzene	ug/L							<10.0	
N-Nitrosodiethylamine	ug/L							<10.0	
N-Nitrosodimethylamine	ug/L							<10.0	
N-Nitrosodi-n-butylamine	ug/L							<10.0	
N-Nitrosodi-n-propylamine	ug/L							<10.0	
N-Nitrosodiphenylamine	ug/L							<10.0	
N-Nitrosomethylethylamine	ug/L							<10.0	
N-Nitrosopiperidine	ug/L							<10.0	
N-Nitrosopyrrolidine	ug/L							<10.0	
O,O,O-Triethyl Phosphorothioate	ug/L							<10.0	
o-Toluidine	ug/L							<10.0	
o-Xylene	ug/L								
Parathion-Ethyl	ug/L							<10.0	
Parathion-Methyl	ug/L							<10.0	
PCB-1016	ug/L							<.800	
PCB-1221	ug/L							<.800	
PCB-1232	ug/L							<.800	
PCB-1242	ug/L							<.800	
PCB-1248	ug/L							<.800	
PCB-1254	ug/L							<.800	
PCB-1260	ug/L							<.800	
Pentachlorobenzene	ug/L							<10.0	
Pentachloronitrobenzene	ug/L							<10.0	
Pentachlorophenol [2C]	ug/L							<10.0	
Phenacetin	ug/L							<10.0	
Phenanthrene	ug/L							<10.0	
Phenol	ug/L							<10.0	
Phorate	ug/L							<10.0	
Pronamide	ug/L							<10.0	
Propionitrile	ug/L							<10	
Pyrene	ug/L							<10.0	
Safrole	ug/L							<10.0	
Selenium	ug/L	6.72	<1.44	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Silver	ug/L	<20.00	<2.61	<20.00	<20.00	<20.00	<20.00	<20.00	<20.00
Styrene	ug/L	<.19	<.19	<.19	<1.00	<1.00	<1.00	<1.00	
Sulfide	mg/L							<1.0	
Tetrachloroethene	ug/L	.76	<.38	<.38	<1.00	<1.00	<1.00	<1.00	
Thallium	ug/L	<2.00	<.70	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00
Thionazin	ug/L							<10.0	
Tin	ug/L							<100	
Toluene	ug/L	<.140	<.140	<.140	<1.000	<1.000	<1.000	<1.000	
Total Suspended Solids	mg/L								
Toxaphene	ug/L							<2.00	
trans-1,2-Dichloroethene	ug/L	<.31	<.31	<.31	<1.00	<1.00	<1.00	<1.00	
trans-1,3-Dichloropropene	ug/L	<.17	<.17	<.17	<5.00	<5.00	<5.00	<5.00	
trans-1,4-Dichloro-2-Butene	ug/L	<1.8	<1.8	<1.8	<10.0	<10.0	<10.0	<10.0	
Trichloroethene	ug/L	<.24	<.24	<.24	<1.00	<1.00	<1.00	<1.00	
Trichlorofluoromethane	ug/L	<.26	<.26	<.26	<4.00	<4.00	<4.00	<4.00	
Vanadium	ug/L	<50.0	<1.6	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
Vinyl Acetate	ug/L	<1.36	<1.36	<1.36	<2.50	<2.00	<2.00	<2.00	
Vinyl Chloride	ug/L	.39	<.26	.28	<1.00	<1.00	<1.00	<1.00	
Xylenes, total	ug/L	<.3	<.3	<.3	<3.0	<3.0	<3.0	<3.0	
Zinc	ug/L	<20.0	29.3	121.0	25.4	31.2	56.1	40.5	53.9

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-11

Constituents	3/11/2010	8/31/2010	2/16/2011	10/27/2011	4/26/2012	10/9/2012	2/20/2013	5/15/2013	10/3/2013
Isosafrole		<10.0		<10.0					
Kepone		<10.0		<10.0					
Lead	4.640	<4.000	<4.000	4.680	<4.000	<4.000	<4.000		<3.000 *
MP-Xylene						<2	<2		
Mercury		<.2		<.2					
Methacrylonitrile		<1		<1					
Methapyrilene		<10.0		<10.0					
Methoxychlor		<.0320		<.0320					
Methyl Methacrylate		<2		<2					
Methyl Methanesulfonate		<10.0		<10.0					
Methylene Bromide	<50.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0		<1.0
Methylene Chloride	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00		<5.00
Naphthalene		<5		<5					
Nickel	<50.00	<50.00	<50.00	<50.00	62.40	<50.00	60.20	54.60	65.85 *
Nitrobenzene		<10.0		<10.0					
N-Nitrosodiethylamine		<10.0		<10.0					
N-Nitrosodimethylamine		<10.0		<10.0					
N-Nitrosodi-n-butylamine		<10.0		<10.0					
N-Nitrosodi-n-propylamine		<10.0		<10.0					
N-Nitrosodiphenylamine		<10.0		<10.0					
N-Nitrosomethylethylamine		<10.0		<10.0					
N-Nitrosopiperidine		<10.0		<10.0					
N-Nitrosopyrrolidine		<10.0		<10.0					
O,O,O-Triethyl Phosphorothioate		<10.0		<10.0					
o-Toluidine		<10.0		<10.0					
o-Xylene						<1	<1		
Parathion-Ethyl		<10.0		<10.0					
Parathion-Methyl		<10.0		<10.0					
PCB-1016		<.800		<.800					
PCB-1221		<.800		<.800					
PCB-1232		<.800		<.800					
PCB-1242		<.800		<.800					
PCB-1248		<.800		<.800					
PCB-1254		<.800		<.800					
PCB-1260		<.800		<.800					
Pentachlorobenzene		<10.0		<10.0					
Pentachloronitrobenzene		<10.0		<10.0					
Pentachlorophenol [2C]		<10.0		<10.0					
Phenacetin		<10.0		<10.0					
Phenanthrene		<10.0		<10.0					
Phenol		<10.0		<10.0					
Phorate		<10.0		<10.0					
Pronamide		<10.0		<10.0					
Propionitrile		<10		<10					
Pyrene		<10.0		<10.0					
Safrole		<10.0		<10.0					
Selenium	<5.00	<5.00	<5.00	<6.00	<5.00	<5.00	<5.00		<5.00
Silver	<20.00	<20.00	<20.00	<20.00	<20.00	<20.00	<20.00		<20.00
Styrene	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00		<1.00
Sulfide		<1.0		<1.0				<1.0	
Tetrachloroethene	<5.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00		<1.00
Thallium	<2.00	<2.00	<2.00	<2.00	2.00	<2.00	<2.00		<2.00
Thionazin		<10.0		<10.0					
Tin		<100		<100					
Toluene	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000		<1.000
Total Suspended Solids									
Toxaphene		<2.00		<2.00					
trans-1,2-Dichloroethene	<50.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00		<1.00
trans-1,3-Dichloropropene	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00		<5.00
trans-1,4-Dichloro-2-Butene	<50.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0		<10.0
Trichloroethene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00		<1.00
Trichlorofluoromethane	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00		<4.00
Vanadium	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0		<50.0
Vinyl Acetate	<10.00	<2.00	<4.00	<2.00	<5.00	<2.00	<2.00		<2.00
Vinyl Chloride	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00		<1.00 *
Xylenes, total	<5.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0		<3.0
Zinc	75.5	24.9	<20.0	<20.0	<20.0	<20.0	52.7		151.5 *

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-11

Constituents	4/22/2014	10/14/2014	5/12/2015	7/29/2015	2/15/2016	10/31/2016	3/27/2017	11/13/2017	6/6/2018
Isosafrole					<10.5				
Kepone					<10.5				
Lead	<2.000	<4.000	.832	<1.000	<.500	<.500	<.500	<.500	<1.000
MP-Xylene									
Mercury					<.2				
Methacrylonitrile					<10				
Methapyrilene					<10.5				
Methoxychlor					<.0333				
Methyl Methacrylate					<2				
Methyl Methanesulfonate					<10.5				
Methylene Bromide	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methylene Chloride	<5.00	<5.00	<5.00	<5.00	<1.00	<1.00	<5.00	<5.00	<5.00
Naphthalene					<5				
Nickel	68.80	54.00	42.30	24.20	20.10	11.00	11.80 *	6.82	8.74
Nitrobenzene					<10.5				
N-Nitrosodiethylamine					<10.5				
N-Nitrosodimethylamine					<10.5				
N-Nitrosodi-n-butylamine					<10.5				
N-Nitrosodi-n-propylamine					<10.5				
N-Nitrosodiphenylamine					<10.5				
N-Nitrosomethylethylamine					<10.5				
N-Nitrosopiperidine					<10.5				
N-Nitrosopyrrolidine					<10.5				
O,O,O-Triethyl Phosphorothioate					<10.5				
o-Toluidine					<10.5				
o-Xylene									
Parathion-Ethyl					<10.5				
Parathion-Methyl					<10.5				
PCB-1016					<.860				
PCB-1221					<.860				
PCB-1232					<.860				
PCB-1242					<.860				
PCB-1248					<.860				
PCB-1254					<.860				
PCB-1260					<.860				
Pentachlorobenzene					<10.5				
Pentachloronitrobenzene					<10.5				
Pentachlorophenol [2C]					<10.5				
Phenacetin					<10.5				
Phenanthrene					<10.5				
Phenol					<10.5				
Phorate					<10.5				
Pronamide					<10.5				
Propionitrile					<10				
Pyrene					<10.5				
Safrole					<10.5				
Selenium	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<2.50
Silver	<20.00	<20.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<.50
Styrene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Sulfide					<1.0				
Tetrachloroethene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Thallium	<2.00	<2.00	<1.00	<1.00	<1.00	<1.00	<1.00 *	<1.00	<2.00
Thionazin					<10.5				
Tin					<5				
Toluene	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000
Total Suspended Solids	31.70	70.70	39.00	19.80	6.75	11.00	6.69 *	7.13	5.00
Toxaphene					<2.08				
trans-1,2-Dichloroethene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
trans-1,3-Dichloropropene	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
trans-1,4-Dichloro-2-Butene	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Trichloroethene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Trichlorofluoromethane	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00
Vanadium	<50.0	<50.0	<1.0	<1.0	<5.0	<1.0	<5.0	<5.0	<3.0
Vinyl Acetate	<2.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00
Vinyl Chloride	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Xylenes, total	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
Zinc	<20.0	<20.0	<10.0	<10.0	<10.0	<10.0	<20.0	<20.0	<20.0

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-11

Constituents	11/26/2018	3/18/2019	12/2/2019	3/30/2020	11/17/2020	5/6/2021	10/7/2021	4/6/2022	8/23/2022
Isosafrole						<10.8			
Kepone						<10.8			
Lead	<1.000	<.500	<.500	<.500	<.500	<.500	<.500	<.500	<.500
MP-Xylene									
Mercury						<.2			
Methacrylonitrile						<10			
Methapyrilene						<10.8			
Methoxychlor						<.0352			
Methyl Methacrylate						<2			
Methyl Methanesulfonate						<10.8			
Methylene Bromide	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methylene Chloride	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Naphthalene						<5			
Nickel	7.35	5.57	5.37	<4.00	8.18 *	8.83	16.40	14.65 *	7.44
Nitrobenzene						<10.8			
N-Nitrosodiethylamine						<10.8			
N-Nitrosodimethylamine						<10.8			
N-Nitrosodi-n-butylamine						<10.8			
N-Nitrosodi-n-propylamine						<10.8			
N-Nitrosodiphenylamine						<10.8			
N-Nitrosomethylethylamine						<10.8			
N-Nitrosopiperidine						<10.8			
N-Nitrosopyrrolidine						<10.8			
O,O,O-Triethyl Phosphorothioate						<10.8			
o-Toluidine						<10.8			
o-Xylene									
Parathion-Ethyl						<10.8			
Parathion-Methyl						<10.8			
PCB-1016						<.879			
PCB-1221						<.879			
PCB-1232						<.879			
PCB-1242						<.879			
PCB-1248						<.879			
PCB-1254						<.879			
PCB-1260						<.879			
Pentachlorobenzene						<10.8			
Pentachloronitrobenzene						<10.8			
Pentachlorophenol [2C]						<10.8			
Phenacetin						<10.8			
Phenanthrene						<10.8			
Phenol						<10.8			
Phorate						<10.8			
Pronamide						<10.8			
Propionitrile						<10			
Pyrene						<10.8			
Safrole						<10.8			
Selenium	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Silver	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Styrene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Sulfide						21.2	<10.0		
Tetrachloroethene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Thallium	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Thionazin						<10.8			
Tin						<5			
Toluene	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<.552
Total Suspended Solids	13.10	8.00	7.25	17.30	6.50 *	6.87	14.50	12.75 *	4.50
Toxaphene						<2.20			
trans-1,2-Dichloroethene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
trans-1,3-Dichloropropene	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
trans-1,4-Dichloro-2-Butene	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Trichloroethene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Trichlorofluoromethane	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00
Vanadium	<1.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Vinyl Acetate	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00
Vinyl Chloride	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Xylenes, total	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
Zinc	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-11

Constituents	3/8/2023	9/13/2023	5/29/2024	10/15/2024
Isosafrole				
Kepone				
Lead	.534	.589	<.500	<4.000
MP-Xylene				
Mercury				
Methacrylonitrile				
Methapyrilene				
Methoxychlor				
Methyl Methacrylate				
Methyl Methanesulfonate				
Methylene Bromide	<1.0	<1.0	<1.0	<1.0
Methylene Chloride	<5.00	<5.00	<5.00	<5.00
Naphthalene				
Nickel	18.80	14.20	5.63	5.40
Nitrobenzene				
N-Nitrosodiethylamine				
N-Nitrosodimethylamine				
N-Nitrosodi-n-butylamine				
N-Nitrosodi-n-propylamine				
N-Nitrosodiphenylamine				
N-Nitrosomethylethylamine				
N-Nitrosopiperidine				
N-Nitrosopyrrolidine				
O,O,O-Triethyl Phosphorothioate				
o-Toluidine				
o-Xylene				
Parathion-Ethyl				
Parathion-Methyl				
PCB-1016				
PCB-1221				
PCB-1232				
PCB-1242				
PCB-1248				
PCB-1254				
PCB-1260				
Pentachlorobenzene				
Pentachloronitrobenzene				
Pentachlorophenol [2C]				
Phenacetin				
Phenanthrene				
Phenol				
Phorate				
Pronamide				
Propionitrile				
Pyrene				
Safrole				
Selenium	<1.35	<1.70	<5.00	<4.00
Silver	<1.00	1.11	<1.00	<4.00
Styrene	<1.00	<1.00	<1.00	<1.00
Sulfide				
Tetrachloroethene	<1.00	<1.00	<1.00	<1.00
Thallium	1.22	7.89	<1.00	<2.00
Thionazin				
Tin				
Toluene	<1.000	<1.000	<1.000	<1.000
Total Suspended Solids	11.30	8.25	8.33	
Toxaphene				
trans-1,2-Dichloroethene	<1.00	<1.00	<1.00	<1.00
trans-1,3-Dichloropropene	<5.00	<5.00	<5.00	<1.00
trans-1,4-Dichloro-2-Butene	<10.0	<10.0	<10.0	<5.0
Trichloroethene	<1.00	<1.00	<1.00	<1.00
Trichlorofluoromethane	<4.00	<4.00	<4.00	<1.00
Vanadium	<5.0	<5.0	<5.0	<20.0
Vinyl Acetate	<10.00	<10.00	<10.00	<5.00
Vinyl Chloride	<1.00	<1.00	<1.00	<1.00
Xylenes, total	<3.0	<3.0	<3.0	<2.0
Zinc	<20.0	<20.0	<11.5	28.4

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-12

Constituents	Units	9/11/2008	12/10/2008	3/3/2009	8/21/2009	11/4/2009	3/11/2010	8/31/2010	2/16/2011
1,1,1,2-Tetrachloroethane	ug/L	<1	<1	<1	<1	<1	<5	<1	<1
1,1,1-Trichloroethane	ug/L	<1	<1	<1	<1	<1	<5	<1	<1
1,1,2,2-Tetrachloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethene	ug/L	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloropropene	ug/L				<1			<1	
1,2,3-Trichloropropane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4,5-Tetrachlorobenzene	ug/L				<10.0			<10.0	
1,2,4-Trichlorobenzene	ug/L				<5			<5	
1,2-Dibromo-3-Chloropropane	ug/L	<.860	<.860	<.860	<10.000	<.498	<.498	<10.000	<.120
1,2-Dibromoethane	ug/L	<.250	<.250	<.250	<10.000	<.255	<.255	<10.000	<.130
1,2-Dichlorobenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloropropane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trinitrobenzene	ug/L				<10.00			<10.00	
1,3-Dichlorobenzene	ug/L				<1			<1	
1,3-Dichloropropane	ug/L				<1			<1	
1,3-Dinitrobenzene	ug/L				<10.0			<10.0	
1,4-Dichlorobenzene	ug/L	<1.000	1.600	1.380	1.100	1.010	<1.000	<1.000	<1.000
1,4-Naphthoquinone	ug/L				<10.0			<10.0	
1,4-Phenylenediamine	ug/L				<10.0			<10.0	
1-Naphthylamine	ug/L				<10.0			<10.0	
2,2-Dichloropropane	ug/L				<4			<4	
2,3,4,6-Tetrachlorophenol	ug/L				<10.0			<10.0	
2,4,5-T [2C]	ug/L				<.20			<.53	
2,4,5-TP [Silvex] [2C]	ug/L				.80	<.20	<.20	<.53	<.50
2,4,5-Trichlorophenol	ug/L				<10.0			<10.0	
2,4,6-Trichlorophenol	ug/L				<10.0			<10.0	
2,4-D [2C]	ug/L				<1.00			<1.10	
2,4-Dichlorophenol	ug/L				<10.0			<10.0	
2,4-Dimethylphenol	ug/L				<10.0			<10.0	
2,4-Dinitrophenol	ug/L				<20.0			<20.0	
2,4-Dinitrotoluene	ug/L				<10.0			<10.0	
2,6-Dichlorophenol	ug/L				<10.0			<10.0	
2,6-Dinitrotoluene	ug/L				<10.0			<10.0	
2-Acetylaminofluorene	ug/L				<10.0			<10.0	
2-Butanone	ug/L	<10	<10	<10	<10	<10	<10	<10	<10
2-Chloronaphthalene	ug/L				<10.0			<10.0	
2-Chlorophenol	ug/L				<10.0			<10.0	
2-Hexanone	ug/L	<10	<10	<10	<10	<10	<10	<10	<10
2-Methylnaphthalene	ug/L				<10.0			<10.0	
2-Methylphenol	ug/L				<10.0			<10.0	
2-Naphthylamine	ug/L				<10.0			<10.0	
2-Nitroaniline	ug/L				<10.0			<10.0	
2-Nitrophenol	ug/L				<10.0			<10.0	
3,3-Dichlorobenzidine	ug/L				<10.0			<10.0	
3,3-Dimethylbenzidine	ug/L				<10.0			<10.0	
3/4-Methylphenol	ug/L				<10.0			<10.0	
3-Chloropropene	ug/L				<2			<2	
3-Methylcholanthrene	ug/L				<10.00			<10.00	
3-Nitroaniline	ug/L				<10.0			<10.0	
4,4`-DDD	ug/L				<.03200			<.03200	
4,4`-DDE	ug/L				<.032			<.032	
4,4`-DDT	ug/L				<.032			<.032	
4,6-Dinitro-2-methylphenol	ug/L				<10.0			<10.0	
4-Aminobiphenyl	ug/L				<10.0			<10.0	
4-Bromophenyl phenyl ether	ug/L				<10.0			<10.0	
4-Chloro-3-methylphenol	ug/L				<10.0			<10.0	
4-Chloroaniline	ug/L				<10.0			<10.0	
4-Chlorophenyl phenyl ether	ug/L				<10.0			<10.0	
4-Methyl-2-Pentanone	ug/L	<10	<10	<10	<10	<10	<10	<10	<10
4-Nitroaniline	ug/L				<10.0			<10.0	
4-Nitrophenol	ug/L				<10.0			<10.0	
5-Nitro-o-toluidine	ug/L				<10.0			<10.0	
7,12-Dimethylbenz [a] anthracene	ug/L				<10.0			<10.0	
Acenaphthene	ug/L				<10.0			<10.0	
Acenaphthylene	ug/L				<10.0			<10.0	
Acetone	ug/L	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00
Acetonitrile	ug/L				<10000			<10000	
Acetophenone	ug/L				<10.0			<10.0	
Acrolein	ug/L				<10			<10	
Acrylonitrile	ug/L	<10	<10	<10	<10	<10	<10	<10	<10
Aldrin	ug/L				<.032			<.032	
alpha-BHC	ug/L				<.032			<.032	
Anthracene	ug/L				<10.0			<10.0	
Antimony	ug/L	<6.000	<6.000	<6.000	<6.000	<6.000	<6.000	<6.000	<6.000

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-12

Constituents	4/26/2012	10/9/2012	7/29/2015	3/28/2016	10/31/2016	3/27/2017	5/31/2017	7/12/2017	11/13/2017
1,1,1,2-Tetrachloroethane	<1	<1	<1	<1	<1	<1			<1
1,1,1-Trichloroethane	<1	<1	<1	<1	<1	<1			<1
1,1,2,2-Tetrachloroethane	<1	<1	<1	<1	<1	<1			<1
1,1,2-Trichloroethane	<1	<2	<1	<1	<1	<1			<1
1,1-Dichloroethane	<1	<1	<1	<1	<1	<1			<1
1,1-Dichloroethene	<1	<2	<2	<2	<2	<2			<2
1,1-Dichloropropene				<1					
1,2,3-Trichloropropane	<1	<1	<1	<1	<1	<1			<1
1,2,4,5-Tetrachlorobenzene				<11.5					
1,2,4-Trichlorobenzene				<5					
1,2-Dibromo-3-Chloropropane	<.200	<.120	<.500	<.500	<.500	<.500			<.500
1,2-Dibromoethane	<.050	<.130	<.130	<.130	<.130	<.130			<.130
1,2-Dichlorobenzene	<1	<1	<1	<1	<1	<1			<1
1,2-Dichloroethane	<1	<1	<1	<1	<1	<1			<1
1,2-Dichloropropane	<1	<1	<1	<1	<1	<1			<1
1,3,5-Trinitrobenzene				<2.11					
1,3-Dichlorobenzene				<1					
1,3-Dichloropropane				<1					
1,3-Dinitrobenzene				<11.5					
1,4-Dichlorobenzene	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000			<1.000
1,4-Naphthoquinone				<11.5					
1,4-Phenylenediamine				<11.5					
1-Naphthylamine				<11.5					
2,2-Dichloropropane				<4					
2,3,4,6-Tetrachlorophenol				<11.5					
2,4,5-T [2C]				<1.16					
2,4,5-TP [Silvex] [2C]	<1.00	<.32	<1.07	<1.16	<1.17	<1.20			<1.01
2,4,5-Trichlorophenol				<11.5					
2,4,6-Trichlorophenol				<11.5					
2,4-D [2C]				<1.16					
2,4-Dichlorophenol				<11.5					
2,4-Dimethylphenol				<11.5					
2,4-Dinitrophenol				<23.0					
2,4-Dinitrotoluene				<11.5					
2,6-Dichlorophenol				<11.5					
2,6-Dinitrotoluene				<11.5					
2-Acetylaminofluorene				<11.5					
2-Butanone	<10	<10	<10	<10	<10	<10			<10
2-Chloronaphthalene				<11.5					
2-Chlorophenol				<11.5					
2-Hexanone	<10	<10	<10	<10	<10	<10			<10
2-Methylnaphthalene				<11.5					
2-Methylphenol				<11.5					
2-Naphthylamine				<11.5					
2-Nitroaniline				<11.5					
2-Nitrophenol				<11.5					
3,3-Dichlorobenzidine				<57.5					
3,3-Dimethylbenzidine				<11.5					
3/4-Methylphenol				<11.5					
3-Chloropropene				<2					
3-Methylcholanthrene				<1.41					
3-Nitroaniline				<11.5					
4,4`-DDD				<.00868					
4,4`-DDE				<.128					
4,4`-DDT				<.128					
4,6-Dinitro-2-methylphenol				<11.5					
4-Aminobiphenyl				<11.5					
4-Bromophenyl phenyl ether				<11.5					
4-Chloro-3-methylphenol				<11.5					
4-Chloroaniline				<11.5					
4-Chlorophenyl phenyl ether				<11.5					
4-Methyl-2-Pentanone	<10	<10	<10	<10	<10	<10			<10
4-Nitroaniline				<11.5					
4-Nitrophenol				<11.5					
5-Nitro-o-toluidine				<11.5					
7,12-Dimethylbenz [a] anthracene				<11.5					
Acenaphthene				<11.5					
Acenaphthylene				<11.5					
Acetone	<10.00	<10.00	<10.00	14.70	<6.36 *	<4.18			<2.94
Acetonitrile				<10000					
Acetophenone				<11.5					
Acrolein				<10					
Acrylonitrile	<5	<10	<10	<10	<10	<10			<10
Aldrin				<.128					
alpha-BHC				<.128					
Anthracene				<11.5					
Antimony	<6.000	<12.000	<1.000	<1.000	<1.000	<1.000			<.403

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-12

Constituents	6/6/2018	11/27/2018	3/18/2019	12/2/2019	3/30/2020	5/6/2021	10/7/2021	4/6/2022
1,1,1,2-Tetrachloroethane	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethene	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloropropene						<1		
1,2,3-Trichloropropane	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4,5-Tetrachlorobenzene						<10.9		
1,2,4-Trichlorobenzene						<5		
1,2-Dibromo-3-Chloropropane	<.500	<.500	<1.200	<1.200	<5.000	<5.000	<5.000	<5.000
1,2-Dibromoethane	<.130	<.130	<.340	<.340	<1.000	<1.000	<1.000	<1.000
1,2-Dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloropropane	<1	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trinitrobenzene						<10.90		
1,3-Dichlorobenzene						<1		
1,3-Dichloropropane						<1		
1,3-Dinitrobenzene						<10.9		
1,4-Dichlorobenzene	<.250	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<.298
1,4-Naphthoquinone						<10.9		
1,4-Phenylenediamine						<10.9		
1-Naphthylamine						<10.9		
2,2-Dichloropropane						<4		
2,3,4,6-Tetrachlorophenol						<10.9		
2,4,5-T [2C]						<1.08		
2,4,5-TP [Silvex] [2C]						<1.08		
2,4,5-Trichlorophenol						<10.9		
2,4,6-Trichlorophenol						<10.9		
2,4-D [2C]						<1.08		
2,4-Dichlorophenol						<10.9		
2,4-Dimethylphenol						<10.9		
2,4-Dinitrophenol						<21.7		
2,4-Dinitrotoluene						<10.9		
2,6-Dichlorophenol						<10.9		
2,6-Dinitrotoluene						<10.9		
2-Acetylaminofluorene						<10.9		
2-Butanone	<10	<10	<10	<10	<10	<10	<10	<10
2-Chloronaphthalene						<10.9		
2-Chlorophenol						<10.9		
2-Hexanone	<10	<10	<10	<10	<10	<10	<10	<10
2-Methylnaphthalene						<10.9		
2-Methylphenol						<10.9		
2-Naphthylamine						<10.9		
2-Nitroaniline						<10.9		
2-Nitrophenol						<10.9		
3,3-Dichlorobenzidine						<10.9		
3,3-Dimethylbenzidine						<10.9		
3/4-Methylphenol						<10.9		
3-Chloropropene						<2		
3-Methylcholanthrene						<10.90		
3-Nitroaniline						<10.9		
4,4`-DDD						<.03600		
4,4`-DDE						<.036		
4,4`-DDT						<.036		
4,6-Dinitro-2-methylphenol						<10.9		
4-Aminobiphenyl						<10.9		
4-Bromophenyl phenyl ether						<10.9		
4-Chloro-3-methylphenol						<10.9		
4-Chloroaniline						<10.9		
4-Chlorophenyl phenyl ether						<10.9		
4-Methyl-2-Pentanone	<10	<10	<10	<10	<10	<10	<10	<10
4-Nitroaniline						<10.9		
4-Nitrophenol						<10.9		
5-Nitro-o-toluidine						<10.9		
7,12-Dimethylbenz [a] anthracene						<10.9		
Acenaphthene						<10.9		
Acenaphthylene						<10.9		
Acetone	<10.00	<3.76	<10.00	<10.00	<10.00	<3.64	<10.00	<3.55
Acetonitrile						<10000		
Acetophenone						<10.9		
Acrolein						<10		
Acrylonitrile	<10	<10	<10	<10	<5	<5	<5	<5
Aldrin						<.036		
alpha-BHC						<.036		
Anthracene						<10.9		
Antimony	<3.000	<1.000	<1.000	<1.000	<1.000	<2.000	<2.000	<2.000

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-12

Constituents	Units	9/11/2008	12/10/2008	3/3/2009	8/21/2009	11/4/2009	3/11/2010	8/31/2010	2/16/2011
Arsenic	ug/L	1.52	3.94	6.99	25.20	6.19	1.68	15.90	16.40
Barium	ug/L	255	2280	1770	2050	280	396	429	727
Benzene	ug/L	<.50	1.00	.90	<.50	.65	<.50	.58	<.50
Benzo [a] anthracene	ug/L				<10.0			<10.0	
Benzo [a] pyrene	ug/L				<10.0			<10.0	
Benzo [b] fluoranthene	ug/L				<10.0			<10.0	
Benzo [g,h,i] perylene	ug/L				<10.0			<10.0	
Benzo [k] fluoranthene	ug/L				<10.0			<10.0	
Benzyl alcohol	ug/L				<10.0			<10.0	
Beryllium	ug/L	<1.000	1.230	<1.000	10.500	1.840	<1.000	1.980	2.010
beta-BHC	ug/L				<.0320			<.0320	
Bis[2-chloroethoxy]methane	ug/L				<10.0			<10.0	
Bis[2-chloroethyl]ether	ug/L				<10.0			<10.0	
Bis[2-chloroisopropyl]ether	ug/L				<10.0			<10.0	
Bis[2-ethylhexyl]phthalate	ug/L				<10.000			<10.000	
Bromochloromethane	ug/L	<5	<5	<5	<5	<5	<5	<5	<5
Bromodichloromethane	ug/L	<1	<1	<1	<1	<1	<5	<1	<1
Bromoform	ug/L	<5	<5	<5	<5	<20	<5	<5	<5
Bromomethane	ug/L	<4	<4	<4	<4	<4	<4	<4	<4
Butyl benzyl phthalate	ug/L				<10.0			<10.0	
Cadmium	ug/L	3.740	5.640	7.560	52.200	9.350	3.860	8.850	13.200
Carbon Disulfide	ug/L	<1	<1	<1	<1	<1	<1	<1	<1
Carbon Tetrachloride	ug/L	<2	<2	<2	<2	<2	<10	<4	<2
Chlordane	ug/L				<2.00			<2.00	
Chlorobenzene	ug/L	<1.000	<1.000	1.250	<1.000	<1.000	<5.000	<1.000	<1.000
Chlorobenzilate	ug/L				<10.0			<10.0	
Chlorodibromomethane	ug/L	<5	<5	<5	<5	<5	<5	<5	<5
Chloroethane	ug/L	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00
Chloroform	ug/L	<1.0	<2.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloromethane	ug/L	<3	<3	<3	<3	<3	<3	<3	<3
Chloroprene	ug/L				<1			<1	
Chromium	ug/L	<20.000	<20.000	<20.000	43.300	<20.000	<20.000	<20.000	<20.000
Chrysene	ug/L				<10.0			<10.0	
cis-1,2-Dichloroethene	ug/L	<1.000	3.620	2.790	1.570	1.480	<1.000	<1.000	<1.000
cis-1,3-Dichloropropene	ug/L	<5	<5	<5	<5	<5	<5	<5	<5
Cobalt	ug/L	<20.0	83.7	184.0	237.0	133.0	10.4	84.6	122.0
Copper	ug/L	<20.000	48.000	246.000	441.000	113.000	<20.000	93.400	170.000
Cyanide	mg/L				<.01000			<.01000	
delta-BHC	ug/L				<.032			<.032	
Diallate [cis or trans]	ug/L				<10.0			<10.0	
Dibenz [a,h] anthracene	ug/L				<10.0			<10.0	
Dibenzofuran	ug/L				<10.0			<10.0	
Dichlorodifluoromethane	ug/L				<3			<3	
Dieldrin	ug/L				<.032			<.032	
Diethyl phthalate	ug/L				<10.0			<10.0	
Dimethoate	ug/L				<10.0			<10.0	
Dimethyl phthalate	ug/L				<10.0			<10.0	
Dimethylaminoazobenzene	ug/L				<10.0			<10.0	
Di-n-butyl phthalate	ug/L				<10.0			<10.0	
Di-n-octyl phthalate	ug/L				<10.0			<10.0	
Dinoseb	ug/L				<10.0			<10.0	
Diphenylamine	ug/L				<10.0			<10.0	
Disulfoton	ug/L				<10.0			<10.0	
Endosulfan I	ug/L				<.032			<.032	
Endosulfan II	ug/L				<.0320			<.0320	
Endosulfan sulfate	ug/L				<.0320			<.0320	
Endrin	ug/L				<.0320			<.0320	
Endrin aldehyde	ug/L				<.032			<.032	
Ethyl Methacrylate	ug/L				<2			<2	
Ethyl Methanesulfonate	ug/L				<10.0			<10.0	
Ethylbenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1
Famphur	ug/L				<20.0			<20.0	
Fluoranthene	ug/L				<10.0			<10.0	
Fluorene	ug/L				<10.0			<10.0	
gamma-BHC [Lindane]	ug/L				<.032			<.032	
Heptachlor	ug/L				<.032			<.032	
Heptachlor Epoxide	ug/L				<.032			<.032	
Hexachlorobenzene	ug/L				<10.0			<10.0	
Hexachlorobutadiene	ug/L				<10.0			<10.0	
Hexachlorocyclopentadiene	ug/L				<10.0			<10.0	
Hexachloroethane	ug/L				<10.0			<10.0	
Hexachloropropene	ug/L				<10.0			<10.0	
Indeno [1,2,3-cd] pyrene	ug/L				<10.0			<10.0	
Iodomethane	ug/L	<10	<10	<10	<10	<20	<10	<10	<10
Isobutanol	ug/L				<10000			<10000	
Isodrin	ug/L				<10.0			<10.0	
Isophorone	ug/L				<10.0			<10.0	

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-12

Constituents	4/26/2012	10/9/2012	7/29/2015	3/28/2016	10/31/2016	3/27/2017	5/31/2017	7/12/2017	11/13/2017
Arsenic	23.10	15.00	10.60	32.00	50.35 *	53.60			44.10
Barium	1820	678	638	608	748 *	799			926
Benzene	<.50	<.50	<.50	<.50	<.50	<.50			<.50
Benzo [a] anthracene				<11.5					
Benzo [a] pyrene				<11.5					
Benzo [b] fluoranthene				<11.5					
Benzo [g,h,i] perylene				<11.5					
Benzo [k] fluoranthene				<11.5					
Benzyl alcohol				<11.5					
Beryllium	<4.000	<1.000	<1.000	<1.000	<.620 *	<1.000			<1.000
beta-BHC				<.0235					
Bis[2-chloroethoxy]methane				<11.5					
Bis[2-chloroethyl]ether				<11.5					
Bis[2-chloroisopropyl]ether				<11.5					
Bis[2-ethylhexyl]phthalate				13.900	<.575	<10.400	<10.000	15.600	<10.400
Bromochloromethane	<5	<5	<5	<5	<5	<5			<5
Bromodichloromethane	<1	<2	<1	<1	<1	<1			<1
Bromoform	<5	<5	<5	<5	<5	<5			<5
Bromomethane	<50	<5	<4	<4	<4	<4			<4
Butyl benzyl phthalate				<11.5					
Cadmium	8.000	7.110	<.500	<.500	2.300 *	<.162			<.228
Carbon Disulfide	<1	<1	<1	<1	<1	<1			<1
Carbon Tetrachloride	<2	<2	<2	<2	<2	<2			<2
Chlordane				<8.00					
Chlorobenzene	<1.000	<1.000	<.192	<1.000	<1.000	<1.000			<1.000
Chlorobenzilate				<11.5					
Chlorodibromomethane	<5	<5	<5	<5	<5	<5			<5
Chloroethane	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00			<4.00
Chloroform	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0			<1.0
Chloromethane	<3	<3	<3	<3	<3	<3			<3
Chloroprene				<1					
Chromium	23.400	<20.000	<5.000	<.742	<1.687 *	<5.000			<5.000
Chrysene				<11.5					
cis-1,2-Dichloroethene	<1.000	<1.000	<.258	<1.000	<1.000	<1.000			<.239
cis-1,3-Dichloropropene	<5	<5	<5	<5	<5	<5			<5
Cobalt	80.0	64.2	64.6	54.5	42.4 *	48.0			39.6
Copper	89.400	<20.000	<.898	<5.000	19.900 *	<5.000			<3.340
Cyanide				<.00387					
delta-BHC				<.128					
Diallate [cis or trans]				<11.5					
Dibenz [a,h] anthracene				<11.5					
Dibenzofuran				<11.5					
Dichlorodifluoromethane				<3					
Dieldrin				<.128					
Diethyl phthalate				<11.5					
Dimethoate				<11.5					
Dimethyl phthalate				<11.5					
Dimethylaminoazobenzene				<11.5					
Di-n-butyl phthalate				<11.5					
Di-n-octyl phthalate				<23.0					
Dinoseb				<11.5					
Diphenylamine				<11.5					
Disulfoton				<11.5					
Endosulfan I				<.128					
Endosulfan II				<.0106					
Endosulfan sulfate				<.0242					
Endrin				<.0112					
Endrin aldehyde				<.128					
Ethyl Methacrylate				<2					
Ethyl Methanesulfonate				<11.5					
Ethylbenzene	<1	<1	<1	<1	<1	<1			<1
Famphur				<23.0					
Fluoranthene				<11.5					
Fluorene				<11.5					
gamma-BHC [Lindane]				<.128					
Heptachlor				<.128					
Heptachlor Epoxide				<.128					
Hexachlorobenzene				<11.5					
Hexachlorobutadiene				<11.5					
Hexachlorocyclopentadiene				<23.0					
Hexachloroethane				<11.5					
Hexachloropropene				<11.5					
Indeno [1,2,3-cd] pyrene				<11.5					
Iodomethane	<10	<10	<10	<10	<10	<10			<10
Isobutanol				<10000					
Isodrin				<11.5					
Isophorone				<11.5					

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-12

Constituents	6/6/2018	11/27/2018	3/18/2019	12/2/2019	3/30/2020	5/6/2021	10/7/2021	4/6/2022
Arsenic	45.70	27.60	21.40	33.35 *	28.40	34.20	39.10	40.10
Barium	1230	1130	1160	1060 *	933	1550	1470	1620
Benzene	<.50	<.50	<.50	<.50	<.50	<.50	<.50	<.50
Benzo [a] anthracene						<10.9		
Benzo [a] pyrene						<10.9		
Benzo [b] fluoranthene						<10.9		
Benzo [g,h,i] perylene						<10.9		
Benzo [k] fluoranthene						<10.9		
Benzyl alcohol						<10.9		
Beryllium	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000
beta-BHC						<.0360		
Bis[2-chloroethoxy]methane						<10.9		
Bis[2-chloroethyl]ether						<10.9		
Bis[2-chloroisopropyl]ether						<10.9		
Bis[2-ethylhexyl]phthalate	<106.000	<10.800	<10.600	<10.300	<10.800	<10.900		<10.000
Bromochloromethane	<5	<5	<5	<5	<5	<5	<5	<5
Bromodichloromethane	<1	<1	<1	<1	<1	<1	<1	<1
Bromoform	<5	<5	<5	<5	<5	<5	<5	<5
Bromomethane	<4	<4	<4	<4	<4	<4	<4	<4
Butyl benzyl phthalate						<10.9		
Cadmium	<.500	<.087	<.500	<.100	<.100	<.100	<.073	<.075
Carbon Disulfide	<1	<1	<1	<1	<1	<1	<1	<1
Carbon Tetrachloride	<2	<2	<2	<2	<2	<2	<2	<2
Chlordane						<2.25		
Chlorobenzene	<1.000	<1.000	<1.000	<1.000	<1.000	1.010	<1.000	1.260
Chlorobenzilate						<10.9		
Chlorodibromomethane	<5	<5	<5	<5	<5	<5	<5	<5
Chloroethane	<1.28	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00
Chloroform	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
Chloromethane	<3	<3	<3	<3	<3	<3	<3	<3
Chloroprene						<1		
Chromium	<3.770	<5.000	<5.000	<5.000	<5.000	<5.000	<5.000	<5.000
Chrysene						<10.9		
cis-1,2-Dichloroethene	<1.000	<1.000	<1.000	<1.000	<1.000	<.254	<.331	<.336
cis-1,3-Dichloropropene	<5	<5	<5	<5	<5	<5	<5	<5
Cobalt	52.7	37.8	40.1	40.7 *	41.2	56.3	60.1	67.2
Copper	<1.330	<5.000	<5.000	<5.000	<5.000	<5.000	<5.000	<5.000
Cyanide						<.01000		
delta-BHC						<.036		
Diallate [cis or trans]						<10.9		
Dibenz [a,h] anthracene						<10.9		
Dibenzofuran						<10.9		
Dichlorodifluoromethane						<3		
Dieldrin						<.036		
Diethyl phthalate						<10.9		
Dimethoate						<10.9		
Dimethyl phthalate						<10.9		
Dimethylaminoazobenzene						<10.9		
Di-n-butyl phthalate						<10.9		
Di-n-octyl phthalate						<21.7		
Dinoseb						<10.9		
Diphenylamine						<10.9		
Disulfoton						<10.9		
Endosulfan I						<.036		
Endosulfan II						<.0360		
Endosulfan sulfate						<.0360		
Endrin						<.0360		
Endrin aldehyde						<.036		
Ethyl Methacrylate						<2		
Ethyl Methanesulfonate						<10.9		
Ethylbenzene	<1	<1	<1	<1	<1	<1	<1	<1
Famphur						<10.9		
Fluoranthene						<10.9		
Fluorene						<10.9		
gamma-BHC [Lindane]						<.036		
Heptachlor						<.036		
Heptachlor Epoxide						<.036		
Hexachlorobenzene						<10.9		
Hexachlorobutadiene						<10.9		
Hexachlorocyclopentadiene						<10.9		
Hexachloroethane						<10.9		
Hexachloropropene						<10.9		
Indeno [1,2,3-cd] pyrene						<10.9		
Iodomethane	<10	<10	<10	<10	<10	<10	<10	<10
Isobutanol						<10000		
Isodrin						<10.9		
Isophorone						<10.9		

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-12

Constituents	Units	9/11/2008	12/10/2008	3/3/2009	8/21/2009	11/4/2009	3/11/2010	8/31/2010	2/16/2011
Isosafrole	ug/L				<10.0			<10.0	
Kepone	ug/L				<10.0			<10.0	
Lead	ug/L	<4.000	15.700	26.000	40.600	6.680	4.370	14.600	19.100
MP-Xylene	ug/L								
Mercury	ug/L				<.2			<.2	
Methacrylonitrile	ug/L				<1			<1	
Methapyrilene	ug/L				<10.0			<10.0	
Methoxychlor	ug/L				<.032			<.032	
Methyl Methacrylate	ug/L				<2			<2	
Methyl Methanesulfonate	ug/L				<10.0			<10.0	
Methylene Bromide	ug/L	<1	<1	<1	<1	<1	<50	<1	<1
Methylene Chloride	ug/L	<5.000	<5.000	<5.000	<5.000	<5.000	<5.000	<5.000	<5.000
Naphthalene	ug/L				<5			<5	
Nickel	ug/L	<50.0	155.0	287.0	274.0	167.0	<50.0	133.0	169.0
Nitrobenzene	ug/L				<10.0			<10.0	
N-Nitrosodiethylamine	ug/L				<10.0			<10.0	
N-Nitrosodimethylamine	ug/L				<10.0			<10.0	
N-Nitrosodi-n-butylamine	ug/L				<10.0			<10.0	
N-Nitrosodi-n-propylamine	ug/L				<10.0			<10.0	
N-Nitrosodiphenylamine	ug/L				<10.0			<10.0	
N-Nitrosomethylethylamine	ug/L				<10.0			<10.0	
N-Nitrosopiperidine	ug/L				<10.0			<10.0	
N-Nitrosopyrrolidine	ug/L				<10.0			<10.0	
O,O,O-Triethyl Phosphorothioate	ug/L				<10.0			<10.0	
o-Toluidine	ug/L				<10.0			<10.0	
o-Xylene	ug/L								
Parathion-Ethyl	ug/L				<10.0			<10.0	
Parathion-Methyl	ug/L				<10.0			<10.0	
PCB-1016	ug/L				<.800			<.800	
PCB-1221	ug/L				<.800			<.800	
PCB-1232	ug/L				<.800			<.800	
PCB-1242	ug/L				<.800			<.800	
PCB-1248	ug/L				<.800			<.800	
PCB-1254	ug/L				<.800			<.800	
PCB-1260	ug/L				<.800			<.800	
Pentachlorobenzene	ug/L				<10.0			<10.0	
Pentachloronitrobenzene	ug/L				<10.0			<10.0	
Pentachlorophenol [2C]	ug/L				<10.00			<10.00	
Phenacetin	ug/L				<10.0			<10.0	
Phenanthrene	ug/L				<10.0			<10.0	
Phenol	ug/L				<10.0			<10.0	
Phorate	ug/L				<10.0			<10.0	
Pronamide	ug/L				<10.0			<10.0	
Propionitrile	ug/L				<10			<10	
Pyrene	ug/L				<10.0			<10.0	
Safrole	ug/L				<10.0			<10.0	
Selenium	ug/L	<5.00	<5.00	<5.00	<5.00	<5.00	25.00	<5.00	<5.00
Silver	ug/L	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
Styrene	ug/L	<1	<1	<1	<1	<2	<5	<1	<1
Sulfide	mg/L				<1			<1	
Tetrachloroethene	ug/L	<1	<1	<1	<1	<1	<5	<1	<1
Thallium	ug/L	<2.000	<2.000	<2.000	<2.000	<2.000	<2.000	<2.000	<2.000
Thionazin	ug/L				<10.0			<10.0	
Tin	ug/L				<100			<100	
Toluene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1
Total Suspended Solids	mg/L								
Toxaphene	ug/L				<2.00			<2.00	
trans-1,2-Dichloroethene	ug/L	<1	<1	<1	<1	<1	<50	<1	<1
trans-1,3-Dichloropropene	ug/L	<5	<5	<5	<5	<5	<5	<5	<5
trans-1,4-Dichloro-2-Butene	ug/L	<10	<10	<10	<10	<10	<50	<10	<10
Trichloroethene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	ug/L	<4	<4	<4	<4	<4	<4	<4	<4
Vanadium	ug/L	<50.000	<50.000	58.900	151.000	<50.000	<50.000	<50.000	<50.000
Vinyl Acetate	ug/L	<2.5	<2.0	<2.0	<2.0	<2.0	<10.0	<2.0	<4.0
Vinyl Chloride	ug/L	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	ug/L	<3.000	<3.000	<3.000	<3.000	<4.000	<5.000	<3.000	<3.000
Zinc	ug/L	35.60	39.50	115.00	204.00	101.00	58.20	40.40	71.40

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-12

Constituents	4/26/2012	10/9/2012	7/29/2015	3/28/2016	10/31/2016	3/27/2017	5/31/2017	7/12/2017	11/13/2017
Isosafrole				<11.5					
Kepone				<11.5					
Lead	22.500	4.500	<.188	<.260	4.275 *	<.484			.653
MP-Xylene		<2							
Mercury				<.2					
Methacrylonitrile				<10					
Methapyrilene				<11.5					
Methoxychlor				<.128					
Methyl Methacrylate				<2					
Methyl Methanesulfonate				<11.5					
Methylene Bromide	<1	<1	<1	<1	<1	<1			<1
Methylene Chloride	<5.000	<5.000	<5.000	<5.000	<.471 *	<5.000			<5.000
Naphthalene				<5					
Nickel	117.0	62.9	59.8	37.9	33.8 *	39.4			31.2
Nitrobenzene				<11.5					
N-Nitrosodiethylamine				<11.5					
N-Nitrosodimethylamine				<11.5					
N-Nitrosodi-n-butylamine				<11.5					
N-Nitrosodi-n-propylamine				<11.5					
N-Nitrosodiphenylamine				<11.5					
N-Nitrosomethylethylamine				<11.5					
N-Nitrosopiperidine				<11.5					
N-Nitrosopyrrolidine				<11.5					
O,O,O-Triethyl Phosphorothioate				<11.5					
o-Toluidine				<11.5					
o-Xylene		<1							
Parathion-Ethyl				<11.5					
Parathion-Methyl				<11.5					
PCB-1016				<.889					
PCB-1221				<.889					
PCB-1232				<.889					
PCB-1242				<.889					
PCB-1248				<.889					
PCB-1254				<.889					
PCB-1260				<.889					
Pentachlorobenzene				<11.5					
Pentachloronitrobenzene				<11.5					
Pentachlorophenol [2C]				<11.50					
Phenacetin				<11.5					
Phenanthrene				<11.5					
Phenol				<11.5					
Phorate				<11.5					
Pronamide				<11.5					
Propionitrile				<10					
Pyrene				<11.5					
Safrole				<11.5					
Selenium	6.20	<5.00	<5.00	<5.00	<5.00	<5.00			<5.00
Silver	<20.0	<20.0	<1.0	<1.0	<1.0	<1.0			<1.0
Styrene	<1	<1	<1	<1	<1	<1			<1
Sulfide				<1					
Tetrachloroethene	<1	<1	<1	<1	<1	<1			<1
Thallium	<2.000	<2.000	<.220	<.147	<.186 *	<.172			<.141
Thionazin				<11.5					
Tin				<5					
Toluene	<1	<1	<1	<1	<1	<1			<1
Total Suspended Solids			66.9	54.9	174.5 *	64.6	27.5	145.0	68.1
Toxaphene				<8.00					
trans-1,2-Dichloroethene	<1	<1	<1	<1	<1	<1			<1
trans-1,3-Dichloropropene	<5	<5	<5	<5	<5	<5			<5
trans-1,4-Dichloro-2-Butene	<10	<10	<10	<10	<10	<10			<10
Trichloroethene	<1	<1	<1	<1	<1	<1			<1
Trichlorofluoromethane	<4	<4	<4	<4	<4	<4			<4
Vanadium	<50.000	<50.000	<.503	<.576	4.185 *	<5.000			<5.000
Vinyl Acetate	<5.0	<2.0	<10.0	<10.0	<10.0	<10.0			<10.0
Vinyl Chloride	<1	<1	<1	<1	<1	<1			<1
Xylenes, total	<3.000	<3.000	<3.000	<3.000	<3.000	<3.000			<3.000
Zinc	64.90	<20.00	<10.00	<10.00	<6.80 *	<20.00			<20.00

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-12

Constituents	6/6/2018	11/27/2018	3/18/2019	12/2/2019	3/30/2020	5/6/2021	10/7/2021	4/6/2022
Isosafrole						<10.9		
Kepone						<10.9		
Lead	<.415	<.500	<.500	<.500	<.500	<.500	<.369	<.417
MP-Xylene								
Mercury						<.2		
Methacrylonitrile						<10		
Methapyrilene						<10.9		
Methoxychlor						<.036		
Methyl Methacrylate						<2		
Methyl Methanesulfonate						<10.9		
Methylene Bromide	<1	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	<5.000	<5.000	<5.000	<5.000	<10.000	<5.000	<5.000	<5.000
Naphthalene						<5		
Nickel	52.7	39.7	38.3	38.5 *	38.7	63.1	77.4	90.8
Nitrobenzene						<10.9		
N-Nitrosodiethylamine						<10.9		
N-Nitrosodimethylamine						<10.9		
N-Nitrosodi-n-butylamine						<10.9		
N-Nitrosodi-n-propylamine						<10.9		
N-Nitrosodiphenylamine						<10.9		
N-Nitrosomethylethylamine						<10.9		
N-Nitrosopiperidine						<10.9		
N-Nitrosopyrrolidine						<10.9		
O,O,O-Triethyl Phosphorothioate						<10.9		
o-Toluidine						<10.9		
o-Xylene								
Parathion-Ethyl						<10.9		
Parathion-Methyl						<10.9		
PCB-1016						<.899		
PCB-1221						<.899		
PCB-1232						<.899		
PCB-1242						<.899		
PCB-1248						<.899		
PCB-1254						<.899		
PCB-1260						<.899		
Pentachlorobenzene						<10.9		
Pentachloronitrobenzene						<10.9		
Pentachlorophenol [2C]						<2.53		
Phenacetin						<10.9		
Phenanthrene						<10.9		
Phenol						<10.9		
Phorate						<10.9		
Pronamide						<10.9		
Propionitrile						<10		
Pyrene						<10.9		
Safrole						<10.9		
Selenium	<2.50	<5.00	5.81	<5.00	<5.00	<1.17	<5.00	<5.00
Silver	<.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Styrene	<1	<1	<1	<1	<1	<1	<1	<1
Sulfide						16	<1	
Tetrachloroethene	<1	<1	<1	<1	<1	<1	<1	<1
Thallium	<2.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000
Thionazin						<10.9		
Tin						<5		
Toluene	<1	<1	<1	<1	<1	<1	<1	<1
Total Suspended Solids	41.0	15.5	13.5	20.3 *	19.5	25.1	124.0	35.0
Toxaphene						<2.25		
trans-1,2-Dichloroethene	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,3-Dichloropropene	<5	<5	<5	<5	<5	<5	<5	<5
trans-1,4-Dichloro-2-Butene	<10	<10	<10	<10	<10	<10	<10	<10
Trichloroethene	<1	<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	<4	<4	<4	<4	<4	<4	<4	<4
Vanadium	<2.620	<5.000	<5.000	<5.000	<5.000	<5.000	<5.000	<5.000
Vinyl Acetate	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Vinyl Chloride	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	<3.000	<3.000	<3.000	<3.000	<3.000	<.961	<3.000	<3.000
Zinc	<20.00	<20.00	<20.00	<20.00	<20.00	<20.00	<20.00	<20.00

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-13

Constituents	Units	10/15/2024
Antimony	ug/L	<2
Arsenic	ug/L	<4
Barium	ug/L	232
Beryllium	ug/L	<4
Cadmium	ug/L	<.8
Chromium	ug/L	<8
Cobalt	ug/L	1.7
Copper	ug/L	<4
Lead	ug/L	<4
Nickel	ug/L	5.8
Selenium	ug/L	<4
Silver	ug/L	<4
Thallium	ug/L	<2
Vanadium	ug/L	<20
Zinc	ug/L	<20

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-15R

Constituents	Units	3/11/2010	5/27/2010	8/31/2010	11/4/2010	2/16/2011	10/27/2011	4/26/2012	10/9/2012
1,1,1,2-Tetrachloroethane	ug/L	<5	<4	<1	<1	<1	<1		<1
1,1,1-Trichloroethane	ug/L	<1	<4	<1	<1	<1	<1		<1
1,1,2,2-Tetrachloroethane	ug/L	<1	<1	<1	<1	<1	<1		<1
1,1,2-Trichloroethane	ug/L	<1	<1	<1	<1	<1	<1		<2
1,1-Dichloroethane	ug/L	<1	<1	<1	<1	<1	<1		<1
1,1-Dichloroethene	ug/L	<2	<2	<2	<2	<2	<2		<2
1,2,3-Trichloropropane	ug/L	<2.5	<1.0	<1.0	<1.0	<1.0	<1.0		<1.0
1,2-Dibromo-3-Chloropropane	ug/L	<.498	<.498	<.498	<.120	<.120	<.120		<.120
1,2-Dibromoethane	ug/L	<.255	<.255	<.255	<.130	<.130	<.130		<.130
1,2-Dichlorobenzene	ug/L	<1	<1	<1	<1	<1	<1		<1
1,2-Dichloroethane	ug/L	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00		<1.00
1,2-Dichloropropane	ug/L	<1	<1	<1	<1	<1	<1		<1
1,4-Dichlorobenzene	ug/L	<1	<1	<1	<1	<1	<1		<1
2-Butanone	ug/L	<10	<10	<10	<10	<10	<10		<10
2-Hexanone	ug/L	<10	<20	<10	<10	<10	<10		<10
4-Methyl-2-Pentanone	ug/L	<10	<10	<10	<10	<10	<10		<10
Acetone	ug/L	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00		<10.00
Acrylonitrile	ug/L	<10	<10	<10	<10	<10	<10		<10
Antimony	ug/L	<6.000	<6.000	<6.000	<6.000	<6.000	<6.000	<6.000	<6.000
Arsenic	ug/L	<1.000	<1.000	<2.000	<1.000	<1.000	<1.000	4.500	<1.000
Barium	ug/L	54.7	50.3	120.0	86.6	84.8	79.1	251.0	140.0
Benzene	ug/L	<.5	<.5	<.5	<.5	<.5	<.5		<.5
Beryllium	ug/L	<1	<1	<1	<1	<1	<1	<4	<1
Bromochloromethane	ug/L	<5	<5	<5	<5	<5	<5		<5
Bromodichloromethane	ug/L	<5	<4	<1	<1	<1	<1		<2
Bromoform	ug/L	<5	<20	<5	<5	<5	<5		<5
Bromomethane	ug/L	<4	<4	<4	<4	<4	<20		<5
Cadmium	ug/L	.649	1.250	1.110	.610	.948	.514	<.800	.783
Carbon Disulfide	ug/L	<1	<4	<4	<1	<1	<1		<1
Carbon Tetrachloride	ug/L	<10	<4	<5	<2	<2	<2		<2
Chlorobenzene	ug/L	<5	<1	<1	<1	<1	<1		<1
Chlorodibromomethane	ug/L	<5	<5	<10	<5	<5	<5		<5
Chloroethane	ug/L	<4	<4	<4	<4	<4	<4		<4
Chloroform	ug/L	<1	<1	<1	<1	<1	<1		<2
Chloromethane	ug/L	<3	<3	<3	<3	<3	<3		<3
Chromium	ug/L	<20.000	<20.000	<20.000	<20.000	<20.000	<20.000	<20.000	<20.000
cis-1,2-Dichloroethene	ug/L	<1	<1	<1	<1	<1	<1		<1
cis-1,3-Dichloropropene	ug/L	<5	<5	<10	<5	<5	<5		<5
Cobalt	ug/L	<1.550	1.770	<1.550	<1.550	<1.550	<1.550	2.000	<1.550
Copper	ug/L	<20.000	<20.000	<20.000	<20.000	<20.000	<20.000	<20.000	<20.000
Ethylbenzene	ug/L	<1	<1	<1	<1	<1	<1		<1
Iodomethane	ug/L	<10	<10	<10	<10	<10	<20		<10
Lead	ug/L	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000
MP-Xylene	ug/L								<2
Methylene Bromide	ug/L	<50	<1	<1	<1	<1	<1		<1
Methylene Chloride	ug/L	<5.000	<5.000	<5.000	<5.000	<5.000	<5.000		<5.000
Nickel	ug/L	<50.000	<50.000	<50.000	<50.000	<50.000	<50.000	<50.000	<50.000
o-Xylene	ug/L								<1
Selenium	ug/L	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Silver	ug/L	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
Styrene	ug/L	<5	<4	<4	<1	<1	<1		<1
Sulfide	mg/L						<1		
Tetrachloroethene	ug/L	<5	<1	<1	<1	<1	<1		<1
Thallium	ug/L	<2	<2	<2	<2	<2	<2	<2	<2
Toluene	ug/L	<1	<1	<1	<1	<1	<1		<1
Total Suspended Solids	mg/L								
trans-1,2-Dichloroethene	ug/L	<1	<1	<1	<1	<1	<1		<1
trans-1,3-Dichloropropene	ug/L	<5	<5	<10	<5	<5	<5		<5
trans-1,4-Dichloro-2-Butene	ug/L	<50	<10	<10	<10	<10	<10		<10
Trichloroethene	ug/L	<1	<1	<1	<1	<1	<1		<1
Trichlorofluoromethane	ug/L	<4	<4	<4	<4	<4	<4		<4
Vanadium	ug/L	<50.000	<50.000	<50.000	<50.000	<50.000	<50.000	<50.000	<50.000
Vinyl Acetate	ug/L	<2	<2	<2	<2	<4	<2		<2
Vinyl Chloride	ug/L	<1	<1	<1	<1	<1	<1		<1
Xylenes, total	ug/L	<7.500	<12.000	<3.000	<3.000	<3.000	<3.000		<3.000
Zinc	ug/L	57.70	<20.00	48.90	22.60	<20.00	39.40	23.80	145.00

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-15R

Constituents	2/20/2013	10/3/2013	4/22/2014	7/10/2014	10/14/2014	5/12/2015	7/29/2015	2/15/2016	10/31/2016
1,1,1,2-Tetrachloroethane	<1	<1	<1		<1	<1	<1	<1	<1
1,1,1-Trichloroethane	<1	<1	<1		<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	<1	<1	<1		<1	<1	<1	<1	<1
1,1,2-Trichloroethane	<1	<1	<1		<1	<1	<1	<1	<1
1,1-Dichloroethane	<1	<1	<1		<1	<1	<1	<1	<1
1,1-Dichloroethene	<2	<2	<2		<2	<2	<2	<2	<2
1,2,3-Trichloropropane	<1.0	<1.0	<1.0		<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dibromo-3-Chloropropane	<.120	<.120	<.120		<.120	<.500	<.500	<.500	<.500
1,2-Dibromoethane	<.130	<.130	<.130		<.130	<.130	<.130	<.130	<.130
1,2-Dichlorobenzene	<1	<1	<1		<1	<1	<1	<1	<1
1,2-Dichloroethane	<1.00	<1.00	<1.00		<1.00	<1.00	<1.00	<1.00	<1.00
1,2-Dichloropropane	<1	<1	<1		<1	<1	<1	<1	<1
1,4-Dichlorobenzene	<1	<1	<1		<1	<1	<1	<1	<1
2-Butanone	<10	<10	<10		<10	<10	<10	<10	<10
2-Hexanone	<10	<10	<10		<10	<10	<10	<10	<10
4-Methyl-2-Pentanone	<10	<10	<10		<10	<10	<10	<10	<10
Acetone	<10.00	<10.00	<10.00		<10.00	<10.00	<10.00	<10.00	<10.00
Acrylonitrile	<10	<10	<10		<10	<10	<10	<10	<10
Antimony	<6.000	<1.030	<6.000		<6.000	<1.000	<1.000	<1.000	<1.000
Arsenic	<1.000	<.644	<1.000		<1.000	<1.470	<2.000	<1.340	<2.000
Barium	131.0	160.0	173.5 *		226.0 *	195.0	175.0	187.0	168.0
Benzene	<.5	<.5	<.5		<.5	<.5	<.5	<.5	<.5
Beryllium	<1	<1	<1		<1	<1	<1	<1	<1
Bromochloromethane	<5	<5	<5		<5	<5	<5	<5	<5
Bromodichloromethane	<1	<1	<1		<1	<1	<1	<1	<1
Bromoform	<5	<5	<5		<5	<5	<5	<5	<5
Bromomethane	<4	<4	<4		<4	<4	<4	<4	<4
Cadmium	<.500	1.070	1.047 *		<.295 *	<.195	<.162	<.500	<.040
Carbon Disulfide	<1	<1	<1		<1	<1	<1	<1	<1
Carbon Tetrachloride	<2	<2	<2		<2	<2	<2	<2	<2
Chlorobenzene	<1	<1	<1		<1	<1	<1	<1	<1
Chlorodibromomethane	<5	<5	<5		<5	<5	<5	<5	<5
Chloroethane	<4	<4	<4		<4	<4	<4	<4	<4
Chloroform	<1	<1	<1		<1	<1	<1	<1	<1
Chloromethane	<3	<3	<3		<3	<3	<3	<3	<3
Chromium	<20.000	<3.050	<20.000		<20.000	<5.000	<5.000	<5.000	<.743
cis-1,2-Dichloroethene	<1	<1	<1		<1	<1	<1	<1	<1
cis-1,3-Dichloropropene	<5	<5	<5		<5	<5	<5	<5	<5
Cobalt	<1.320	<1.320	<2.410		<2.410	<.244	<.070	<.152	<.500
Copper	<20.000	<6.520	<6.680 *		<11.830 *	<1.530	<1.060	<2.000	<5.000
Ethylbenzene	<1	<1	<1		<1	<1	<1	<1	<1
Iodomethane	<10	<10	<10		<10	<10	<10	<10	<10
Lead	<4.000	<1.830	<2.420 *		<4.000	<.264	<.500	<.500	<.500
MP-Xylene	<2								
Methylene Bromide	<1	<1	<1		<1	<1	<1	<1	<1
Methylene Chloride	<5.000	<5.000	<5.000		<5.000	<5.000	<5.000	<5.000	<.474
Nickel	<50.000	<3.110	<50.000		<11.850 *	<2.380	<.679	<5.000	<5.000
o-Xylene	<1								
Selenium	<5.00	<2.46	<5.00		<5.00	<5.00	<5.00	<5.00	<1.21
Silver	<20.0	<20.0	<20.0		<20.0	<1.0	<1.0	<1.0	<1.0
Styrene	<1	<1	<1		<1	<1	<1	<1	<1
Sulfide			<1	<1	<1	<1			<1
Tetrachloroethene	<1	<1	<1		<1	<1	<1	<1	<1
Thallium	<2	<2	<2		<2	<1	<1	<1	<1
Toluene	<1	<1	<1		<1	<1	<1	<1	<1
Total Suspended Solids			116.250 *	100.000	51.500 *	3.500	3.750	2.380	<1.500
trans-1,2-Dichloroethene	<1	<1	<1		<1	<1	<1	<1	<1
trans-1,3-Dichloropropene	<5	<5	<5		<5	<5	<5	<5	<5
trans-1,4-Dichloro-2-Butene	<10	<10	<10		<10	<10	<10	<10	<10
Trichloroethene	<1	<1	<1		<1	<1	<1	<1	<1
Trichlorofluoromethane	<4	<4	<4		<4	<4	<4	<4	<4
Vanadium	<50.000	<50.000	<2.990 *		<26.345 *	<5.000	<.457	<5.000	<.337
Vinyl Acetate	<2	<2	<2		<10	<10	<10	<10	<10
Vinyl Chloride	<1	<1	<1		<1	<1	<1	<1	<1
Xylenes, total	<3.000	<3.000	<3.000		<3.000	<3.000	<3.000	<3.000	<3.000
Zinc	51.10	185.00	<20.00		<20.00	<7.93	<10.00	<10.00	<10.00

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-15R

Constituents	3/27/2017	11/13/2017	6/6/2018	11/27/2018	3/18/2019	12/2/2019	3/30/2020	11/17/2020	5/6/2021
1,1,1,2-Tetrachloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethene	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,2,3-Trichloropropane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dibromo-3-Chloropropane	<.500	<.500	<.500	<.500	<1.200	<1.200	<5.000	<5.000	<5.000
1,2-Dibromoethane	<.130	<.130	<.130	<.130	<.340	<.340	<1.000	<1.000	<1.000
1,2-Dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	<1.00	<1.00	<1.00	<1.00	1.44	<1.00	<1.00	<1.00	<1.00
1,2-Dichloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-Dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-Butanone	<10	<10	<10	<10	<10	<10	<10	<10	<10
2-Hexanone	<10	<10	<10	<10	<10	<10	<10	<10	<10
4-Methyl-2-Pentanone	<10	<10	<10	<10	<10	<10	<10	<10	<10
Acetone	<2.11	<3.10	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00
Acrylonitrile	<10	<10	<10	<10	<10	<10	<5	<5	<5
Antimony	<1.000	<.255	<3.000	<1.000	<1.000	<1.000	<1.000	<1.000	<2.000
Arsenic	<.543	<.608	1.670	<1.110	<.859	<2.000	<2.000	<2.000	<2.000
Barium	217.0	193.0	170.0	199.0	263.0	208.0	205.0	224.0	217.0
Benzene	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5
Beryllium	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromochloromethane	<5	<5	<5	<5	<5	<5	<5	<5	<5
Bromodichloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromoform	<5	<5	<5	<5	<5	<5	<5	<5	<5
Bromomethane	<4	<4	<4	<4	<4	<4	<4	<4	<4
Cadmium	<.048	<.089	<.500	<.500	<.500	<.100	<.100	<.100	<.100
Carbon Disulfide	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon Tetrachloride	<2	<2	<2	<2	<2	<2	<2	<2	<2
Chlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorodibromomethane	<5	<5	<5	<5	<5	<5	<5	<5	<5
Chloroethane	<4	<4	<4	<4	<4	<4	<4	<4	<4
Chloroform	<1	<1	<3	<3	<3	<3	<3	<3	<3
Chloromethane	<3	<3	<3	<3	<3	<3	<3	<3	<3
Chromium	<.793	<.912	<4.310	<.802	<5.000	<5.000	<5.000	<5.000	<5.000
cis-1,2-Dichloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,3-Dichloropropene	<5	<5	<5	<5	<5	<5	<5	<5	<5
Cobalt	<.500	<.500	<1.000	1.020	<.214	<.500	<.500	<.500	<.500
Copper	<5.000	<5.000	<.886	<5.000	<5.000	<5.000	<5.000	<5.000	<5.000
Ethylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Iodomethane	<10	<10	<10	<10	<10	<10	<10	<10	<10
Lead	<.500	.518	<.500	<.500	<.500	<.500	<.500	<.500	<.500
MP-Xylene									
Methylene Bromide	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	<5.000	<5.000	<5.000	<5.000	<5.000	<5.000	<5.000	<5.000	<5.000
Nickel	<5.000	<5.000	<1.030	<5.000	<5.000	<5.000	<5.000	<5.000	<5.000
o-Xylene									
Selenium	<1.19	<1.19	<1.52	<1.58	<5.00	<5.00	<1.29	<5.00	<2.07
Silver	<1.0	<1.0	<.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Styrene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Sulfide									
Tetrachloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Thallium	<1	<1	<2	<1	<1	<1	<1	<1	<1
Toluene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total Suspended Solids	<.625	<1.250	<1.880	<1.880	<1.500	<1.880	<1.880	<1.880	<1.880
trans-1,2-Dichloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,3-Dichloropropene	<5	<5	<5	<5	<5	<5	<5	<5	<5
trans-1,4-Dichloro-2-Butene	<10	<10	<10	<10	<10	<10	<10	<10	<10
Trichloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	<4	<4	<4	<4	<4	<4	<4	<4	<4
Vanadium	<5.000	<5.000	<3.230	<.565	<5.000	<5.000	<5.000	<5.000	<5.000
Vinyl Acetate	<10	<10	<10	<10	<10	<10	<10	<10	<10
Vinyl Chloride	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	<3.000	<3.000	<3.000	<3.000	<3.000	<3.000	<3.000	<3.000	<.463
Zinc	<20.00	<20.00	<10.80	<20.00	<20.00	<20.00	<20.00	<20.00	<20.00

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-15R

Constituents	10/7/2021	4/6/2022	8/23/2022	3/8/2023	9/13/2023	5/29/2024	10/15/2024
1,1,1,2-Tetrachloroethane	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethene	<2	<2	<2	<2	<2	<2	<1
1,2,3-Trichloropropane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dibromo-3-Chloropropane	<5.000	<5.000	<5.000	<5.000	<5.000	<5.000	<5.000
1,2-Dibromoethane	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000
1,2-Dichlorobenzene	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-Dichloropropane	<1	<1	<1	<1	<1	<1	<1
1,4-Dichlorobenzene	<1	<1	<1	<1	<1	<1	<1
2-Butanone	<10	<10	<10	<10	<10	<10	<10
2-Hexanone	<10	<10	<10	<10	<10	<10	<5
4-Methyl-2-Pentanone	<10	<10	<10	<10	<10	<10	<5
Acetone	<10.00	<10.00	<10.00	<10.00	<3.18	<10.00	<10.00
Acrylonitrile	<5	<5	<5	<5	<5	<5	<5
Antimony	<2.000	<2.000	<2.000	<2.000	<1.650	<2.000	<2.000
Arsenic	2.840	<.821	<2.000	<2.000	<.640	9.130	9.100
Barium	207.0	257.0	248.0	265.0	306.0	351.0	376.0
Benzene	<.5	<.5	<.5	<.5	<.5	<.5	<1.0
Beryllium	<1	<1	<1	<1	<1	<1	<4
Bromochloromethane	<5	<5	<5	<5	<5	<5	<1
Bromodichloromethane	<1	<1	<1	<1	<1	<1	<1
Bromoform	<5	<5	<5	<5	<5	<5	<1
Bromomethane	<4	<4	<4	<4	<4	<4	<1
Cadmium	<.100	<.100	<.100	<.100	<.200	<.111	<.800
Carbon Disulfide	<1	<1	<1	<1	<1	<1	<1
Carbon Tetrachloride	<2	<2	<2	<2	<2	<2	<1
Chlorobenzene	<1	<1	<1	<1	<1	<1	<1
Chlorodibromomethane	<5	<5	<5	<5	<5	<5	<1
Chloroethane	<4	<4	<4	<4	<4	<4	<1
Chloroform	<3	<3	<3	<3	<3	<3	<1
Chloromethane	<3	<3	<3	<3	<3	<3	<1
Chromium	<1.110	<5.000	<5.000	<5.000	<5.000	<5.000	<8.000
cis-1,2-Dichloroethene	<1	<1	<1	<1	<1	<1	<1
cis-1,3-Dichloropropene	<5	<5	<5	<5	<5	<5	<1
Cobalt	<.500	<.464	<.500	<.308	<.500	2.730	4.200
Copper	<5.000	<5.000	<5.000	<5.000	<5.000	<5.000	<4.000
Ethylbenzene	<1	<1	<1	<1	<1	<1	<1
Iodomethane	<10	<10	<10	<10	<10	<10	<1
Lead	<.500	<.500	<.500	<.500	<.500	<.500	<4.000
MP-Xylene							
Methylene Bromide	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	<5.000	<5.000	<5.000	<5.000	<5.000	<5.000	<5.000
Nickel	<5.000	<5.000	<5.000	<2.330	<5.000	<2.480	6.300
o-Xylene							
Selenium	<1.35	<1.00	<1.13	<1.55	<5.00	<5.00	<4.00
Silver	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<4.0
Styrene	<1	<1	<1	<1	<1	<1	<1
Sulfide	<1						
Tetrachloroethene	<1	<1	<1	<1	<1	<1	<1
Thallium	<1	<1	<1	<1	<1	<1	<2
Toluene	<1	<1	<1	<1	<1	<1	<1
Total Suspended Solids	<.875	<1.880	<1.880	<1.880	21.800	8.600	
trans-1,2-Dichloroethene	<1	<1	<1	<1	<1	<1	<1
trans-1,3-Dichloropropene	<5	<5	<5	<5	<5	<5	<1
trans-1,4-Dichloro-2-Butene	<10	<10	<10	<10	<10	<10	<5
Trichloroethene	<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	<4	<4	<4	<4	<4	<4	<1
Vanadium	<5.000	<5.000	<5.000	<5.000	<5.000	<5.000	<20.000
Vinyl Acetate	<10	<10	<10	<10	<10	<10	<5
Vinyl Chloride	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	<3.000	<3.000	<3.000	<3.000	<3.000	<3.000	<2.000
Zinc	<20.00	<20.00	<20.00	<20.00	<20.00	<20.00	<20.00

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-19

Constituents	Units	2/11/2008	4/30/2008	7/9/2008	9/11/2008	12/10/2008	3/3/2009	8/21/2009	3/11/2010
1,2,4-Trichlorobenzene	ug/L								
1,2-Dibromo-3-Chloropropane	ug/L	<.860	<.860	<.860	<.860	<.860	<.860	<.498	<.498
1,2-Dibromoethane	ug/L	<.250	<.250	<.250	<.250	<.250	<.250	<.255	<.255
1,2-Dichlorobenzene	ug/L	<.21	<.21	<.21	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-Dichloroethane	ug/L	<.2	<.2	<.2	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane	ug/L	<.4	<.4	<.4	<1.0	<1.0	<1.0	<1.0	<1.0
1,3,5-Trinitrobenzene	ug/L								
1,3-Dichlorobenzene	ug/L								
1,3-Dichloropropane	ug/L								
1,3-Dinitrobenzene	ug/L								
1,4-Dichlorobenzene	ug/L	<.160	<.160	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000
1,4-Naphthoquinone	ug/L								
1,4-Phenylenediamine	ug/L								
1-Naphthylamine	ug/L								
2,2-Dichloropropane	ug/L								
2,3,4,6-Tetrachlorophenol	ug/L								
2,4,5-T [2C]	ug/L								
2,4,5-TP [Silvex] [2C]	ug/L								
2,4,5-Trichlorophenol	ug/L								
2,4,6-Trichlorophenol	ug/L								
2,4-D [2C]	ug/L								
2,4-Dichlorophenol	ug/L								
2,4-Dimethylphenol	ug/L								
2,4-Dinitrophenol	ug/L								
2,4-Dinitrotoluene	ug/L								
2,6-Dichlorophenol	ug/L								
2,6-Dinitrotoluene	ug/L								
2-Acetylaminofluorene	ug/L								
2-Butanone	ug/L	<.91	<.91	<.91	<10.00	<10.00	<10.00	<10.00	<10.00
2-Chloronaphthalene	ug/L								
2-Chlorophenol	ug/L								
2-Hexanone	ug/L	<1.76	<1.76	<1.76	<10.00	<10.00	<10.00	<10.00	<10.00
2-Methylnaphthalene	ug/L								
2-Methylphenol	ug/L								
2-Naphthylamine	ug/L								
2-Nitroaniline	ug/L								
2-Nitrophenol	ug/L								
3,3-Dichlorobenzidine	ug/L								
3,3-Dimethylbenzidine	ug/L								
3/4-Methylphenol	ug/L								
3-Chloropropene	ug/L								
3-Methylcholanthrene	ug/L								
3-Nitroaniline	ug/L								
4,4`-DDD	ug/L								
4,4`-DDE	ug/L								
4,4`-DDT	ug/L								
4,6-Dinitro-2-methylphenol	ug/L								
4-Aminobiphenyl	ug/L								
4-Bromophenyl phenyl ether	ug/L								
4-Chloro-3-methylphenol	ug/L								
4-Chloroaniline	ug/L								
4-Chlorophenyl phenyl ether	ug/L								
4-Methyl-2-Pentanone	ug/L	<.31	<.31	<.31	<10.00	<10.00	<10.00	<10.00	<10.00
4-Nitroaniline	ug/L								
4-Nitrophenol	ug/L								
5-Nitro-o-toluidine	ug/L								
7,12-Dimethylbenz [a] anthracene	ug/L								
Acenaphthene	ug/L								
Acenaphthylene	ug/L								
Acetone	ug/L	<4.62	<4.62	<4.62	32.90	<10.00	<10.00	<10.00	<10.00
Acetonitrile	ug/L								
Acetophenone	ug/L								
Acrolein	ug/L								
Acrylonitrile	ug/L	<1.28	<1.28	<1.28	<10.00	<10.00	<10.00	<10.00	<10.00
Aldrin	ug/L								
alpha-BHC	ug/L								
alpha-Chlordane	ug/L								
Anthracene	ug/L								
Antimony	ug/L	<6.00	<1.79	<6.00	<6.00	<6.00	<6.00	<6.00	<6.00
Arsenic	ug/L	<1.00	1.78	1.61	8.97	1.08	1.73	<1.00	<1.00
Barium	ug/L	675	791	600	309	599	670	546	567
Benzene	ug/L	<.160	<.160	<.160	<.500	<.500	<.500	<.500	<.500
Benzo [a] anthracene	ug/L								
Benzo [a] pyrene	ug/L								
Benzo [b] fluoranthene	ug/L								
Benzo [g,h,i] perylene	ug/L								
Benzo [k] fluoranthene	ug/L								

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-19

Constituents	8/31/2010	2/16/2011	7/7/2011	10/27/2011	1/23/2012	4/26/2012	10/9/2012	2/20/2013	5/15/2013
1,2,4-Trichlorobenzene			<5				<5		
1,2-Dibromo-3-Chloropropane	<.498	<.120	<10.000	<.120		<.200	<.120	<.120	
1,2-Dibromoethane	<.255	<.130	<10.000	<.130		<.050	<.130	<.130	
1,2-Dichlorobenzene	<1.00	<1.00	<1.00	<1.00		<1.00	<1.00	<1.00	
1,2-Dichloroethane	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0	<1.0	
1,2-Dichloropropane	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0	<1.0	
1,3,5-Trinitrobenzene			<10.0				<10.0		
1,3-Dichlorobenzene			<1				<1		
1,3-Dichloropropane			<1				<1		
1,3-Dinitrobenzene			<10.0				<10.0		
1,4-Dichlorobenzene	<1.000	<1.000	3.060	<1.000		<1.000	<1.000	<1.000	
1,4-Naphthoquinone			<10.0				<10.0		
1,4-Phenylenediamine			<10.0				<10.0		
1-Naphthylamine			<10.0				<10.0		
2,2-Dichloropropane			<4				<4		
2,3,4,6-Tetrachlorophenol			<10.0				<10.0		
2,4,5-T [2C]			<.24				<.43		
2,4,5-TP [Silvex] [2C]			<.240				<.290		
2,4,5-Trichlorophenol			<10.0				<10.0		
2,4,6-Trichlorophenol			<10.0				<10.0		
2,4-D [2C]			<.450				<.470		
2,4-Dichlorophenol			<10.0				<10.0		
2,4-Dimethylphenol			<10.000				<10.000		
2,4-Dinitrophenol			<20.0				<20.0		
2,4-Dinitrotoluene			<10.0				<10.0		
2,6-Dichlorophenol			<10.0				<10.0		
2,6-Dinitrotoluene			<10.0				<10.0		
2-Acetylaminofluorene			<10.0				<10.0		
2-Butanone	<10.00	<10.00	<10.00	<10.00		<10.00	<10.00	<10.00	
2-Chloronaphthalene			<10.0				<10.0		
2-Chlorophenol			<10.0				<10.0		
2-Hexanone	<10.00	<10.00	<10.00	<10.00		<10.00	<10.00	<10.00	
2-Methylnaphthalene			<10.0				<10.0		
2-Methylphenol			<10.0				<10.0		
2-Naphthylamine			<10.0				<10.0		
2-Nitroaniline			<10.0				<10.0		
2-Nitrophenol			<10.0				<10.0		
3,3-Dichlorobenzidine			<10.0				<10.0		
3,3-Dimethylbenzidine			<10.0				<10.0		
3/4-Methylphenol			<10.0				<10.0		
3-Chloropropene			<2				<2		
3-Methylcholanthrene			<10.0				<10.0		
3-Nitroaniline			<10.0				<10.0		
4,4`-DDD			<.0320				<.0320		
4,4`-DDE			<.0320				<.0320		
4,4`-DDT			<.0320				<.0320		
4,6-Dinitro-2-methylphenol			<10.0				<10.0		
4-Aminobiphenyl			<10.0				<10.0		
4-Bromophenyl phenyl ether			<10.0				<10.0		
4-Chloro-3-methylphenol			10.9	<10.0	<10.0	<10.0	<10.0	<10.0	
4-Chloroaniline			<10.0				<10.0		
4-Chlorophenyl phenyl ether			<10.0				<10.0		
4-Methyl-2-Pentanone	<10.00	<10.00	<10.00	<10.00		<10.00	<10.00	<10.00	
4-Nitroaniline			<10.0				<10.0		
4-Nitrophenol			<10.0				<10.0		
5-Nitro-o-toluidine			<10.0				<10.0		
7,12-Dimethylbenz [a] anthracene			<10.0				<10.0		
Acenaphthene			<10.0				<10.0		
Acenaphthylene			<10.0				<10.0		
Acetone	<10.00	<10.00	<10.00	<10.00		<10.00	<10.00	<10.00	
Acetonitrile			<10000				<10000		
Acetophenone			<10.0				<10.0		
Acrolein			<10				<10		
Acrylonitrile	<10.00	<10.00	<10.00	<10.00		<5.00	<10.00	<10.00	
Aldrin			<.0320				<.0320		
alpha-BHC			<.0320				<.0320		
alpha-Chlordane							<.032		
Anthracene			<10.0				<10.0		
Antimony	<6.00	<6.00	<6.00	<6.00		<6.00	<12.00	<6.00	
Arsenic	<1.00	<1.00	72.50	1.21		19.60	3.05	<1.00	
Barium	490	607	4440	639		918	990	1110	1020
Benzene	<.500	<.500	4.590	<.500		<.500	<.500	.987	
Benzo [a] anthracene			<10.0				<10.0		
Benzo [a] pyrene			<10.0				<10.0		
Benzo [b] fluoranthene			<10.0				<10.0		
Benzo [g,h,i] perylene			<10.0				<10.0		
Benzo [k] fluoranthene			<10.0				<10.0		

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-19

Constituents	10/3/2013	12/18/2013	4/22/2014	10/14/2014	5/12/2015	7/29/2015	2/15/2016	10/31/2016	3/27/2017
1,2,4-Trichlorobenzene									<5
1,2-Dibromo-3-Chloropropane	<.120		<.120	<.120	<.500	<.500	<.500	<.500	<.500
1,2-Dibromoethane	<.130		<.130	<.130	<.130	<.130	<.130	<.130	<.130
1,2-Dichlorobenzene	<1.00		<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-Dichloroethane	<1.0		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane	<1.0		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3,5-Trinitrobenzene									<10.9
1,3-Dichlorobenzene									<1
1,3-Dichloropropane									<1
1,3-Dinitrobenzene									<10.9
1,4-Dichlorobenzene	<1.000		<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000
1,4-Naphthoquinone									<10.9
1,4-Phenylenediamine									<10.9
1-Naphthylamine									<10.9
2,2-Dichloropropane									<4
2,3,4,6-Tetrachlorophenol									<10.9
2,4,5-T [2C]									<1.22
2,4,5-TP [Silvex] [2C]									<1.220
2,4,5-Trichlorophenol									<10.9
2,4,6-Trichlorophenol									<10.9
2,4-D [2C]									<1.220
2,4-Dichlorophenol									<10.9
2,4-Dimethylphenol									<.583
2,4-Dinitrophenol									<21.7
2,4-Dinitrotoluene									<10.9
2,6-Dichlorophenol									<10.9
2,6-Dinitrotoluene									<10.9
2-Acetylaminofluorene									<10.9
2-Butanone	<10.00		<10.00		<10.00	<10.00	<10.00	<10.00	<10.00
2-Chloronaphthalene									<10.9
2-Chlorophenol									<10.9
2-Hexanone	<10.00		<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00
2-Methylnaphthalene									<10.9
2-Methylphenol									<10.9
2-Naphthylamine									<10.9
2-Nitroaniline									<10.9
2-Nitrophenol									<10.9
3,3-Dichlorobenzidine									<54.3
3,3-Dimethylbenzidine									<10.9
3/4-Methylphenol									<10.9
3-Chloropropene									<2
3-Methylcholanthrene									<10.9
3-Nitroaniline									<10.9
4,4`-DDD									<.3230
4,4`-DDE									<.3230
4,4`-DDT									<.3230
4,6-Dinitro-2-methylphenol									<10.9
4-Aminobiphenyl									<10.9
4-Bromophenyl phenyl ether									<10.9
4-Chloro-3-methylphenol			<10.3	<10.4	<10.0	<10.2	<10.2	<10.5	<10.9
4-Chloroaniline									<10.9
4-Chlorophenyl phenyl ether									<10.9
4-Methyl-2-Pentanone	<10.00		<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00
4-Nitroaniline									<10.9
4-Nitrophenol									<10.9
5-Nitro-o-toluidine									<10.9
7,12-Dimethylbenz [a] anthracene									<10.9
Acenaphthene									<10.9
Acenaphthylene									<10.9
Acetone	<10.00		<10.00	<10.00	<10.00	<10.00	<10.00	<3.53	<10.00
Acetonitrile									<10000
Acetophenone									<10.9
Acrolein									<10
Acrylonitrile	<10.00		<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00
Aldrin									<.3230
alpha-BHC									<.0202
alpha-Chlordane									
Anthracene									<10.9
Antimony	<1.75		<6.00	<6.00	<.77	<1.00	<1.00	<1.00	<1.00
Arsenic	3.81		4.41	1.39	<1.47	<1.27	<2.00	<2.00	<2.00
Barium	1010		1170	1010	978	860	838	792	875
Benzene	1.000		1.210	.996	1.140	.821	.640	<.216	<.500
Benzo [a] anthracene									<10.9
Benzo [a] pyrene									<10.9
Benzo [b] fluoranthene									<10.9
Benzo [g,h,i] perylene									<10.9
Benzo [k] fluoranthene									<10.9

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-19

Constituents	11/13/2017	6/6/2018	11/26/2018	3/18/2019	12/2/2019	3/30/2020	11/17/2020	5/6/2021	10/7/2021
1,2,4-Trichlorobenzene									
1,2-Dibromo-3-Chloropropane	<.500	<.500	<1.200	<1.200	<1.200	<5.000	<5.000	<5.000	<5.000
1,2-Dibromoethane	<.130	<.130	<.340	<.340	<.340	<1.000	<1.000	<1.000	<1.000
1,2-Dichlorobenzene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-Dichloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3,5-Trinitrobenzene									
1,3-Dichlorobenzene									
1,3-Dichloropropane									
1,3-Dinitrobenzene									
1,4-Dichlorobenzene	<.268	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000
1,4-Naphthoquinone									
1,4-Phenylenediamine									
1-Naphthylamine									
2,2-Dichloropropane									
2,3,4,6-Tetrachlorophenol									
2,4,5-T [2C]									
2,4,5-TP [Silvex] [2C]									
2,4,5-Trichlorophenol									
2,4,6-Trichlorophenol									
2,4-D [2C]									
2,4-Dichlorophenol									
2,4-Dimethylphenol									
2,4-Dinitrophenol									
2,4-Dinitrotoluene									
2,6-Dichlorophenol									
2,6-Dinitrotoluene									
2-Acetylaminofluorene									
2-Butanone	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00
2-Chloronaphthalene									
2-Chlorophenol									
2-Hexanone	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00
2-Methylnaphthalene									
2-Methylphenol									
2-Naphthylamine									
2-Nitroaniline									
2-Nitrophenol									
3,3-Dichlorobenzidine									
3,3-Dimethylbenzidine									
3/4-Methylphenol									
3-Chloropropene									
3-Methylcholanthrene									
3-Nitroaniline									
4,4`-DDD									
4,4`-DDE									
4,4`-DDT									
4,6-Dinitro-2-methylphenol									
4-Aminobiphenyl									
4-Bromophenyl phenyl ether									
4-Chloro-3-methylphenol	<10.6								
4-Chloroaniline									
4-Chlorophenyl phenyl ether									
4-Methyl-2-Pentanone	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00
4-Nitroaniline									
4-Nitrophenol									
5-Nitro-o-toluidine									
7,12-Dimethylbenz [a] anthracene									
Acenaphthene									
Acenaphthylene									
Acetone	<4.16	<4.19	<10.00	<3.43	<10.00	<10.00	<10.00	<10.00	<10.00
Acetonitrile									
Acetophenone									
Acrolein									
Acrylonitrile	<10.00	<10.00	<10.00	<10.00	<10.00	<5.00	<5.00	<5.00	<5.00
Aldrin									
alpha-BHC									
alpha-Chlordane									
Anthracene									
Antimony	<1.00	<3.00	<1.00	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00
Arsenic	<1.18	3.95	<1.26 *	<2.00	<1.25	<2.00	<1.45	<1.22	<1.44
Barium	978	1120	1040 *	1160	1030	1040	1150	1150	1140
Benzene	.704	<.500	.652 *	<.500	<.275	<.500	.557	.824	.856
Benzo [a] anthracene									
Benzo [a] pyrene									
Benzo [b] fluoranthene									
Benzo [g,h,i] perylene									
Benzo [k] fluoranthene									

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-19

Constituents	4/6/2022	8/23/2022	3/8/2023	9/13/2023	5/29/2024	10/15/2024
1,2,4-Trichlorobenzene	<5					
1,2-Dibromo-3-Chloropropane	<5.000	<5.000	<5.000	<5.000	<5.000	<5.000
1,2-Dibromoethane	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000
1,2-Dichlorobenzene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-Dichloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3,5-Trinitrobenzene	<10.0					
1,3-Dichlorobenzene	<1					
1,3-Dichloropropane	<1					
1,3-Dinitrobenzene	<10.0					
1,4-Dichlorobenzene	<.323	<1.000	<.366 *	<.280	<.232	<1.000
1,4-Naphthoquinone	<10.0					
1,4-Phenylenediamine	<10.0					
1-Naphthylamine	<10.0					
2,2-Dichloropropane	<4					
2,3,4,6-Tetrachlorophenol	<10.0					
2,4,5-T [2C]	<1.04					
2,4,5-TP [Silvex] [2C]	<.869					
2,4,5-Trichlorophenol	<10.0					
2,4,6-Trichlorophenol	<10.0					
2,4-D [2C]	<.679					
2,4-Dichlorophenol	<10.0					
2,4-Dimethylphenol	<10.000					
2,4-Dinitrophenol	<20.0					
2,4-Dinitrotoluene	<10.0					
2,6-Dichlorophenol	<10.0					
2,6-Dinitrotoluene	<10.0					
2-Acetylaminofluorene	<10.0					
2-Butanone	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00
2-Chloronaphthalene	<10.0					
2-Chlorophenol	<10.0					
2-Hexanone	<10.00	<10.00	<10.00	<10.00	<10.00	<5.00
2-Methylnaphthalene	<10.0					
2-Methylphenol	<10.0					
2-Naphthylamine	<10.0					
2-Nitroaniline	<10.0					
2-Nitrophenol	<10.0					
3,3-Dichlorobenzidine	<10.0					
3,3-Dimethylbenzidine	<10.0					
3/4-Methylphenol	<10.0					
3-Chloropropene	<2					
3-Methylcholanthrene	<10.0					
3-Nitroaniline	<10.0					
4,4`-DDD	<.0696					
4,4`-DDE	<.0696					
4,4`-DDT	<.0696					
4,6-Dinitro-2-methylphenol	<10.0					
4-Aminobiphenyl	<10.0					
4-Bromophenyl phenyl ether	<10.0					
4-Chloro-3-methylphenol	<10.0					
4-Chloroaniline	<10.0					
4-Chlorophenyl phenyl ether	<10.0					
4-Methyl-2-Pentanone	<10.00	<10.00	<10.00	<10.00	<10.00	<5.00
4-Nitroaniline	<10.0					
4-Nitrophenol	<10.0					
5-Nitro-o-toluidine	<10.0					
7,12-Dimethylbenz [a] anthracene	<10.0					
Acenaphthene	<10.0					
Acenaphthylene	<10.0					
Acetone	<10.00	<10.00	<10.00	<5.58	<10.00	<10.00
Acetonitrile	<10000					
Acetophenone	<10.0					
Acrolein	<10					
Acrylonitrile	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Aldrin	<.0696					
alpha-BHC	<.0696					
alpha-Chlordane						
Anthracene	<10.0					
Antimony	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00
Arsenic	<1.86	<1.27	<1.80 *	<1.63	<1.52	<4.00
Barium	1300	1110	1270 *	1240	1070	966
Benzene	.930	.588	.912	.733	.624	<1.000
Benzo [a] anthracene	<10.0					
Benzo [a] pyrene	<10.0					
Benzo [b] fluoranthene	<10.0					
Benzo [g,h,i] perylene	<10.0					
Benzo [k] fluoranthene	<10.0					

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-19

Constituents	Units	2/11/2008	4/30/2008	7/9/2008	9/11/2008	12/10/2008	3/3/2009	8/21/2009	3/11/2010
Benzyl alcohol	ug/L								
Beryllium	ug/L	<1.000	1.610	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000
beta-BHC	ug/L								
Bis[2-chloroethoxy]methane	ug/L								
Bis[2-chloroethyl]ether	ug/L								
Bis[2-chloroisopropyl]ether	ug/L								
Bis[2-ethylhexyl]phthalate	ug/L								
Bromochloromethane	ug/L	<.76	<.76	<.76	<5.00	<5.00	<5.00	<5.00	<5.00
Bromodichloromethane	ug/L	<.2	<.2	<.2	<1.0	<1.0	<1.0	<1.0	<5.0
Bromoform	ug/L	<.430	<.430	<.430	<5.000	<5.000	<5.000	<5.000	<5.000
Bromomethane	ug/L	<.480	<.480	<.480	<4.000	<4.000	<4.000	<4.000	<4.000
Butyl benzyl phthalate	ug/L								
1,1,1,2-Tetrachloroethane	ug/L	<.33	<.33	<.33	<1.00	<1.00	<1.00	<1.00	<5.00
1,1,1-Trichloroethane	ug/L	<.19	<.19	<.19	<1.00	<1.00	<1.00	<1.00	<5.00
1,1,2,2-Tetrachloroethane	ug/L	<.23	<.23	<.23	<1.00	<1.00	<1.00	<1.00	<1.00
1,1,2-Trichloroethane	ug/L	<.37	<.37	<.37	<1.00	<1.00	<1.00	<1.00	<1.00
1,1-Dichloroethane	ug/L	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000
1,1-Dichloroethene	ug/L	<.37	<.37	<.37	<2.00	<2.00	<2.00	<2.00	<2.00
1,1-Dichloropropene	ug/L								
1,2,3-Trichloropropane	ug/L	<.7	<.7	<.7	<1.0	<1.0	<1.0	<1.0	<2.5
1,2,4,5-Tetrachlorobenzene	ug/L								
Cadmium	ug/L	1.900	3.930	1.470	7.450	2.860	7.040	46.200	1.430
Carbon Disulfide	ug/L	<.180	<.180	<.180	<1.000	<1.000	<1.000	<1.000	<1.000
Carbon Tetrachloride	ug/L	<.31	<.31	<.31	<2.00	<2.00	<2.00	<2.00	<10.00
Chlordane	ug/L								
Chlorobenzene	ug/L	<.170	<.170	<.170	<1.000	<1.000	<1.000	<1.000	<5.000
Chlorobenzilate	ug/L								
Chlorodibromomethane	ug/L	.32	<.26	<.26	<5.00	<5.00	<5.00	<5.00	<5.00
Chloroethane	ug/L	.790	.540	<.500	<4.000	<4.000	<4.000	<4.000	<4.000
Chloroform	ug/L	<.17	<.17	<.17	<1.00	<2.50	<1.00	<1.00	<1.00
Chloromethane	ug/L	<.200	<.200	<.200	<3.000	<3.000	<3.000	<3.000	<3.000
Chloroprene	ug/L								
Chromium	ug/L	<20.00	<1.73	<20.00	<20.00	<20.00	<20.00	<20.00	<20.00
Chrysene	ug/L								
cis-1,2-Dichloroethene	ug/L	<.370	<.370	<.370	<1.000	<1.000	<1.000	<1.000	<1.000
cis-1,3-Dichloropropene	ug/L	<.23	<.23	<.23	<5.00	<5.00	<5.00	<5.00	<5.00
Cobalt	ug/L	<20.00	<1.40	<20.00	<20.00	<20.00	<20.00	<20.00	2.52
Copper	ug/L	<20.000	<13.100	<20.000	<20.000	<20.000	<20.000	<20.000	<20.000
Cyanide	mg/L								
delta-BHC	ug/L								
Diallate [cis or trans]	ug/L								
Dibenz [a,h] anthracene	ug/L								
Dibenzofuran	ug/L								
Dichlorodifluoromethane	ug/L								
Dieldrin	ug/L								
Diethyl phthalate	ug/L								
Dimethoate	ug/L								
Dimethyl phthalate	ug/L								
Dimethylaminoazobenzene	ug/L								
Di-n-butyl phthalate	ug/L								
Di-n-octyl phthalate	ug/L								
Dinoseb	ug/L								
Diphenylamine	ug/L								
Disulfoton	ug/L								
Endosulfan I	ug/L								
Endosulfan II	ug/L								
Endosulfan sulfate	ug/L								
Endrin	ug/L								
Endrin aldehyde	ug/L								
Ethyl Methacrylate	ug/L								
Ethyl Methanesulfonate	ug/L								
Ethylbenzene	ug/L	<.25	<.25	<.25	<1.00	<1.00	<1.00	<1.00	<1.00
Famphur	ug/L								
Fluoranthene	ug/L								
Fluorene	ug/L								
gamma-BHC [Lindane]	ug/L								
gamma-Chlordane	ug/L								
Heptachlor	ug/L								
Heptachlor Epoxide	ug/L								
Hexachlorobenzene	ug/L								
Hexachlorobutadiene	ug/L								
Hexachlorocyclopentadiene	ug/L								
Hexachloroethane	ug/L								
Hexachloropropene	ug/L								
Indeno [1,2,3-cd] pyrene	ug/L								
Iodomethane	ug/L	<.4	<.4	<.4	<10.0	<10.0	<10.0	<10.0	<10.0
Isobutanol	ug/L								

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-19

Constituents	8/31/2010	2/16/2011	7/7/2011	10/27/2011	1/23/2012	4/26/2012	10/9/2012	2/20/2013	5/15/2013
Benzyl alcohol			<10.0				<10.0		
Beryllium	<1.000	<1.000	<1.000	1.020		<4.000	1.000	<1.000	
beta-BHC			<.0320				<.0320		
Bis[2-chloroethoxy]methane			<10.0				<10.0		
Bis[2-chloroethyl]ether			<10.0				<10.0		
Bis[2-chloroisopropyl]ether			<10.0				<10.0		
Bis[2-ethylhexyl]phthalate			<10				<10		
Bromochloromethane	<5.00	<5.00	<5.00	<5.00		<5.00	<5.00	<5.00	
Bromodichloromethane	<1.0	<1.0	<1.0	<1.0		<1.0	<2.0	<1.0	
Bromoform	<5.000	<5.000	<5.000	<5.000		<5.000	<5.000	<5.000	
Bromomethane	<4.000	<4.000	<4.000	<20.000		<50.000	<5.000	<4.000	
Butyl benzyl phthalate			<10.0				<10.0		
1,1,1,2-Tetrachloroethane	<1.00	<1.00	<1.00	<1.00		<1.00	<1.00	<1.00	
1,1,1-Trichloroethane	<1.00	<1.00	<1.00	<1.00		<1.00	<1.00	<1.00	
1,1,2,2-Tetrachloroethane	<1.00	<1.00	<1.00	<1.00		<1.00	<1.00	<1.00	
1,1,2-Trichloroethane	<1.00	<1.00	<1.00	<1.00		<1.00	<2.00	<1.00	
1,1-Dichloroethane	<1.000	<1.000	1.180	<1.000		<1.000	<1.000	<1.000	
1,1-Dichloroethene	<2.00	<2.00	<2.00	<2.00		<1.00	<2.00	<2.00	
1,1-Dichloropropene			<1				<1		
1,2,3-Trichloropropane	<1.0	<1.0	<2.0	<1.0		<1.0	<1.0	<1.0	
1,2,4,5-Tetrachlorobenzene			<10.0				<10.0		
Cadmium	.992	2.570	<.500	2.140		4.000	2.220	2.280	
Carbon Disulfide	<4.000	<1.000	<1.000	<1.000		<1.000	<1.000	<1.000	
Carbon Tetrachloride	<5.00	<2.00	<2.00	<2.00		<2.00	<2.00	<2.00	
Chlordane			<2.00				<2.00		
Chlorobenzene	<1.000	<1.000	7.350	<1.000		<1.000	<1.000	<1.000	
Chlorobenzilate			<10.0				<10.0		
Chlorodibromomethane	<10.00	<5.00	<5.00	<5.00		<5.00	<5.00	<5.00	
Chloroethane	<4.000	<4.000	<4.000	<4.000		<4.000	<4.000	<4.000	
Chloroform	<1.00	<1.00	<1.00	<1.00		<1.00	<2.00	<1.00	
Chloromethane	<3.000	<3.000	<3.000	<3.000		<3.000	<3.000	<3.000	
Chloroprene			<1				<1		
Chromium	<20.00	<20.00	39.40	<20.00		21.10	<20.00	<20.00	
Chrysene			<10.0				<10.0		
cis-1,2-Dichloroethene	<1.000	<1.000	<1.000	<1.000		<1.000	<1.000	<1.000	
cis-1,3-Dichloropropene	<10.00	<5.00	<5.00	<5.00		<5.00	<5.00	<5.00	
Cobalt	<1.55	2.14	27.10	3.67		23.50	11.60	22.50	
Copper	<20.000	<20.000	23.200	<20.000		<20.000	<20.000	<20.000	
Cyanide			<.01				<.01		
delta-BHC			<.0320				<.0320		
Diallate [cis or trans]			<10.0				<10.0		
Dibenz [a,h] anthracene			<10.0				<10.0		
Dibenzofuran			<10.0				<10.0		
Dichlorodifluoromethane			<3				<3		
Dieldrin			<.0320				<.0320		
Diethyl phthalate			<10.0				<10.0		
Dimethoate			<10.0				<10.0		
Dimethyl phthalate			<10.0				<10.0		
Dimethylaminoazobenzene			<10.0				<10.0		
Di-n-butyl phthalate			<10.000				<10.000		
Di-n-octyl phthalate			<10.0				<10.0		
Dinoseb			<10.0				<10.0		
Diphenylamine			<10.0				<10.0		
Disulfoton			<10.0				<10.0		
Endosulfan I			<.0320				<.0320		
Endosulfan II			<.0320				<.0320		
Endosulfan sulfate			<.0320				<.0320		
Endrin			<.0320				<.0320		
Endrin aldehyde			<.0320				<.0320		
Ethyl Methacrylate			<2				<2		
Ethyl Methanesulfonate			<10.0				<10.0		
Ethylbenzene	<1.00	<1.00	1.73	<1.00		<1.00	<1.00	<1.00	
Famphur			<20.0				<20.0		
Fluoranthene			<10.0				<10.0		
Fluorene			<10.0				<10.0		
gamma-BHC [Lindane]			<.0320				<.0320		
gamma-Chlordane							.0633	<.0320	
Heptachlor			<.0320				<.0320		
Heptachlor Epoxide			<.0320				<.0320		
Hexachlorobenzene			<10.0				<10.0		
Hexachlorobutadiene			<10.0				<10.0		
Hexachlorocyclopentadiene			<10.0				<10.0		
Hexachloroethane			<10.0				<10.0		
Hexachloropropene			<10.0				<10.0		
Indeno [1,2,3-cd] pyrene			<10.0				<10.0		
Iodomethane	<10.0	<10.0	<20.0	<20.0		<10.0	<10.0	<10.0	
Isobutanol			<10000				<10000		

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-19

Constituents	10/3/2013	12/18/2013	4/22/2014	10/14/2014	5/12/2015	7/29/2015	2/15/2016	10/31/2016	3/27/2017
Benzyl alcohol									<10.9
Beryllium	<.320		<.457	<.469	<.076	<1.000	<1.000	<1.000	<1.000
beta-BHC									<.3230
Bis[2-chloroethoxy]methane									<10.9
Bis[2-chloroethyl]ether									<10.9
Bis[2-chloroisopropyl]ether									<10.9
Bis[2-ethylhexyl]phthalate									<2
Bromochloromethane	<5.00		<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Bromodichloromethane	<1.0		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromoform	<.242		<5.000	<5.000	<5.000	<5.000	<5.000	<5.000	<5.000
Bromomethane	<4.000		<4.000		<4.000	<4.000	<4.000	<4.000	<4.000
Butyl benzyl phthalate									<10.9
1,1,1,2-Tetrachloroethane	<1.00		<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1,1-Trichloroethane	<1.00		<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1,2,2-Tetrachloroethane	<1.00		<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1,2-Trichloroethane	<1.00		<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1-Dichloroethane	1.050		2.280	1.260	1.680	1.180	1.010	<1.000	<.511
1,1-Dichloroethene	<2.00		<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00
1,1-Dichloropropene									<1
1,2,3-Trichloropropane	<1.0		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,4,5-Tetrachlorobenzene									<10.9
Cadmium	1.850		2.580	2.930	3.090	<.397	.581	1.390	1.520
Carbon Disulfide	<1.000		<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000
Carbon Tetrachloride	<2.00		<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00
Chlordane									<20.20
Chlorobenzene	<1.000		<.774	<1.000	<.712	<1.000	<.330	<1.000	<1.000
Chlorobenzilate									<10.9
Chlorodibromomethane	<5.00		<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Chloroethane	<1.810		<2.020	<4.000	<1.020	<.957	<.657	<4.000	<4.000
Chloroform	<1.00		<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Chloromethane	<3.000		<3.000	<3.000	<3.000	<3.000	<.321	<3.000	<3.000
Chloroprene									<1
Chromium	<2.34		<9.70	<20.00	<5.00	<5.00	<5.00	<5.00	<5.00
Chrysene									<10.9
cis-1,2-Dichloroethene	<.744		<.704	<.458	<.958	<.549	<.539	<1.000	<1.000
cis-1,3-Dichloropropene	<5.00		<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Cobalt	20.30		18.40	19.30	12.70	10.20	9.81	7.08	6.31
Copper	<3.610		<8.400	<6.230	<1.590	<.857	<.681	<5.000	<5.000
Cyanide									<.01
delta-BHC									<.3230
Diallate [cis or trans]									<10.9
Dibenz [a,h] anthracene									<10.9
Dibenzofuran									<10.9
Dichlorodifluoromethane									<3
Dieldrin									<.0428
Diethyl phthalate									<10.9
Dimethoate									<10.9
Dimethyl phthalate									<10.9
Dimethylaminoazobenzene									<10.9
Di-n-butyl phthalate									<.665
Di-n-octyl phthalate									<21.7
Dinoseb									<10.9
Diphenylamine									<10.9
Disulfoton									<10.9
Endosulfan I									<.3230
Endosulfan II									<.3230
Endosulfan sulfate									<.3230
Endrin									<.3230
Endrin aldehyde									<.3230
Ethyl Methacrylate									<2
Ethyl Methanesulfonate									<10.9
Ethylbenzene	<1.00		<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Famphur									<21.7
Fluoranthene									<10.9
Fluorene									<10.9
gamma-BHC [Lindane]									<.3230
gamma-Chlordane	.1370	.1240	.1760					<.1740	
Heptachlor									<.3230
Heptachlor Epoxide									<.3230
Hexachlorobenzene									<10.9
Hexachlorobutadiene									<10.9
Hexachlorocyclopentadiene									<21.7
Hexachloroethane									<10.9
Hexachloropropene									<10.9
Indeno [1,2,3-cd] pyrene									<10.9
Iodomethane	<10.0		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Isobutanol									<10000

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-19

Constituents	11/13/2017	6/6/2018	11/26/2018	3/18/2019	12/2/2019	3/30/2020	11/17/2020	5/6/2021	10/7/2021
Benzyl alcohol									
Beryllium	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000
beta-BHC									
Bis[2-chloroethoxy]methane									
Bis[2-chloroethyl]ether									
Bis[2-chloroisopropyl]ether									
Bis[2-ethylhexyl]phthalate									
Bromochloromethane	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Bromodichloromethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromoform	<5.000	<5.000	<5.000	<5.000	<5.000	<5.000	<5.000	<5.000	<5.000
Bromomethane	<.861	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000
Butyl benzyl phthalate									
1,1,1,2-Tetrachloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1,1-Trichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1,2,2-Tetrachloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1,2-Trichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1-Dichloroethane	<.882	<.375	1.020 *	<.346	<.587	<.252	<1.000	<.879	<.729
1,1-Dichloroethene	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00
1,1-Dichloropropene									
1,2,3-Trichloropropane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,4,5-Tetrachlorobenzene									
Cadmium	<.088	1.480	.594	2.620	<.078	.512	<.100	2.040	<.100
Carbon Disulfide	<.152	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000
Carbon Tetrachloride	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00
Chlordane									
Chlorobenzene	<.375	<1.000	<.735 *	<1.000	<1.000	<1.000	<.489	1.210	1.450
Chlorobenzilate									
Chlorodibromomethane	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Chloroethane	<.581	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<1.110	<.840
Chloroform	<1.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00
Chloromethane	<3.000	<3.000	<3.000	<3.000	<3.000	<3.000	<3.000	<3.000	<3.000
Chloroprene									
Chromium	<5.00	<3.44	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Chrysene									
cis-1,2-Dichloroethene	<.457	<1.000	<.505 *	<1.000	<.228	<1.000	<1.000	<.559	<.412
cis-1,3-Dichloropropene	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Cobalt	11.40	15.80	16.90 *	13.30	15.50	14.20	20.60	20.10	22.60
Copper	<5.000	2.320	<5.000	<5.000	<3.060	<5.000	<5.000	<5.000	<5.000
Cyanide									
delta-BHC									
Diallate [cis or trans]									
Dibenz [a,h] anthracene									
Dibenzofuran									
Dichlorodifluoromethane									
Dieldrin									
Diethyl phthalate									
Dimethoate									
Dimethyl phthalate									
Dimethylaminoazobenzene									
Di-n-butyl phthalate									
Di-n-octyl phthalate									
Dinoseb									
Diphenylamine									
Disulfoton									
Endosulfan I									
Endosulfan II									
Endosulfan sulfate									
Endrin									
Endrin aldehyde									
Ethyl Methacrylate									
Ethyl Methanesulfonate									
Ethylbenzene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Famphur									
Fluoranthene									
Fluorene									
gamma-BHC [Lindane]									
gamma-Chlordane	<.0290	<.0207	<.0340	<.0340	<.0328	.0634		.1190	<.0340
Heptachlor									
Heptachlor Epoxide									
Hexachlorobenzene									
Hexachlorobutadiene									
Hexachlorocyclopentadiene									
Hexachloroethane									
Hexachloropropene									
Indeno [1,2,3-cd] pyrene									
Iodomethane	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Isobutanol									

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-19

Constituents	4/6/2022	8/23/2022	3/8/2023	9/13/2023	5/29/2024	10/15/2024
Benzyl alcohol	<10.0					
Beryllium	<1.000	<1.000	<1.000	<1.000	<1.000	<4.000
beta-BHC	<.0696					
Bis[2-chloroethoxy]methane	<10.0					
Bis[2-chloroethyl]ether	<10.0					
Bis[2-chloroisopropyl]ether	<10.0					
Bis[2-ethylhexyl]phthalate	<10					
Bromochloromethane	<5.00	<5.00	<5.00	<5.00	<5.00	<1.00
Bromodichloromethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromoform	<5.000	<5.000	<5.000	<5.000	<5.000	<1.000
Bromomethane	<4.000	<4.000	<4.000	<4.000	<4.000	<1.000
Butyl benzyl phthalate	<10.0					
1,1,1,2-Tetrachloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1,1-Trichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1,2,2-Tetrachloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1,2-Trichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1-Dichloroethane	<.598	<1.000	<.610 *	<.611	<.508	<1.000
1,1-Dichloroethene	<2.00	<2.00	<2.00	<2.00	<2.00	<1.00
1,1-Dichloropropene	<1					
1,2,3-Trichloropropane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,4,5-Tetrachlorobenzene	<10.0					
Cadmium	<.100	<.100	<.100	<.200	<.200	<.800
Carbon Disulfide	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000
Carbon Tetrachloride	<2.00	<2.00	<2.00	<2.00	<2.00	<1.00
Chlordane	<2.17					
Chlorobenzene	1.920	<.761	1.875 *	1.490	1.160	1.200
Chlorobenzilate	<10.0					
Chlorodibromomethane	<5.00	<5.00	<5.00	<5.00	<5.00	<1.00
Chloroethane	<1.120	<4.000	<1.034 *	<4.000	<4.000	<1.000
Chloroform	<3.00	<3.00	<3.00	<3.00	<3.00	<1.00
Chloromethane	<3.000	<3.000	<3.000	<3.000	<3.000	<1.000
Chloroprene	<1					
Chromium	<5.00	<5.00	<5.00	<5.00	<5.00	<8.00
Chrysene	<10.0					
cis-1,2-Dichloroethene	<.434	<1.000	<.453 *	<.287	<.279	<1.000
cis-1,3-Dichloropropene	<5.00	<5.00	<5.00	<5.00	<5.00	<1.00
Cobalt	25.60	21.30	23.55 *	23.80	23.40	19.50
Copper	<5.000	<5.000	<5.000	<5.000	<5.000	<4.000
Cyanide	<.01					
delta-BHC	<.0696					
Diallate [cis or trans]	<10.0					
Dibenz [a,h] anthracene	<10.0					
Dibenzofuran	<10.0					
Dichlorodifluoromethane	<3					
Dieldrin	<.0696					
Diethyl phthalate	<10.0					
Dimethoate	<10.0					
Dimethyl phthalate	<10.0					
Dimethylaminoazobenzene	<10.0					
Di-n-butyl phthalate	<10.000					
Di-n-octyl phthalate	<20.0					
Dinoseb	<10.0					
Diphenylamine	<10.0					
Disulfoton	<10.0					
Endosulfan I	<.0696					<.0500
Endosulfan II	<.0696					
Endosulfan sulfate	<.0696					
Endrin	<.0696					
Endrin aldehyde	<.0696					
Ethyl Methacrylate	<2					
Ethyl Methanesulfonate	<10.0					
Ethylbenzene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Famphur	<10.0					
Fluoranthene	<10.0					
Fluorene	<10.0					
gamma-BHC [Lindane]	<.0696	<.0640				
gamma-Chlordane				<2.0000	<.0640	<.0500
Heptachlor	<.0696					
Heptachlor Epoxide	<.0696					
Hexachlorobenzene	<10.0					
Hexachlorobutadiene	<10.0					
Hexachlorocyclopentadiene	<10.0					
Hexachloroethane	<10.0					
Hexachloropropene	<10.0					
Indeno [1,2,3-cd] pyrene	<10.0					
Iodomethane	<10.0	<10.0	<10.0	<10.0	<10.0	<1.0
Isobutanol	<10000					

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-19

Constituents	Units	2/11/2008	4/30/2008	7/9/2008	9/11/2008	12/10/2008	3/3/2009	8/21/2009	3/11/2010
Isodrin	ug/L								
Isophorone	ug/L								
Isosafrole	ug/L								
Kepone	ug/L								
Lead	ug/L	<4.000	15.600	<4.000	6.980	<4.000	6.500	<4.000	<4.000
MP-Xylene	ug/L								
Mercury	ug/L								
Methacrylonitrile	ug/L								
Methapyrilene	ug/L								
Methoxychlor	ug/L								
Methyl Methacrylate	ug/L								
Methyl Methanesulfonate	ug/L								
Methylene Bromide	ug/L	<.3	<.3	<.3	<1.0	<1.0	<1.0	<1.0	<50.0
Methylene Chloride	ug/L	<.450	<.450	.480	<5.000	<5.000	<5.000	<5.000	<5.000
Naphthalene	ug/L								
Nickel	ug/L	<50.0	<4.6	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
Nitrobenzene	ug/L								
N-Nitrosodiethylamine	ug/L								
N-Nitrosodimethylamine	ug/L								
N-Nitrosodi-n-butylamine	ug/L								
N-Nitrosodi-n-propylamine	ug/L								
N-Nitrosodiphenylamine	ug/L								
N-Nitrosomethylethylamine	ug/L								
N-Nitrosopiperidine	ug/L								
N-Nitrosopyrrolidine	ug/L								
O,O,O-Triethyl Phosphorothioate	ug/L								
o-Toluidine	ug/L								
o-Xylene	ug/L								
Parathion-Ethyl	ug/L								
Parathion-Methyl	ug/L								
PCB-1016	ug/L								
PCB-1221	ug/L								
PCB-1232	ug/L								
PCB-1242	ug/L								
PCB-1248	ug/L								
PCB-1254	ug/L								
PCB-1260	ug/L								
Pentachlorobenzene	ug/L								
Pentachloronitrobenzene	ug/L								
Pentachlorophenol [2C]	ug/L								
Phenacetin	ug/L								
Phenanthrene	ug/L								
Phenol	ug/L								
Phorate	ug/L								
Pronamide	ug/L								
Propionitrile	ug/L								
Pyrene	ug/L								
Safrole	ug/L								
Selenium	ug/L	<5.00	<1.44	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Silver	ug/L	<20.00	<2.61	<20.00	<20.00	<20.00	<20.00	<20.00	<20.00
Styrene	ug/L	<.19	<.19	<.19	<1.00	<1.00	<1.00	<1.00	<5.00
Sulfate	mg/L								
Sulfide	mg/L								
Tetrachloroethene	ug/L	.77	<.38	<.38	<1.00	<1.00	<1.00	<1.00	<5.00
Thallium	ug/L	<2.000	<.700	<2.000	<2.000	<2.000	<2.000	<2.000	<2.000
Thionazin	ug/L								
Tin	ug/L								
Toluene	ug/L	<.140	<.140	<.140	<1.000	<1.000	<1.000	<1.000	<1.000
Total Suspended Solids	mg/L								
Toxaphene	ug/L								
trans-1,2-Dichloroethene	ug/L	<.31	<.31	<.31	<1.00	<1.00	<1.00	<1.00	<1.00
trans-1,3-Dichloropropene	ug/L	<.17	<.17	<.17	<5.00	<5.00	<5.00	<5.00	<5.00
trans-1,4-Dichloro-2-Butene	ug/L	<1.8	<1.8	<1.8	<10.0	<10.0	<10.0	<10.0	<50.0
Trichloroethene	ug/L	<.240	<.240	<.240	<1.000	<1.000	<1.000	<1.000	<1.000
Trichlorofluoromethane	ug/L	<.26	<.26	<.26	<4.00	<4.00	<4.00	<4.00	<4.00
Vanadium	ug/L	<50.000	<1.600	<50.000	<50.000	<50.000	<50.000	<50.000	<50.000
Vinyl Acetate	ug/L	<1.36	<1.36	<1.36	<2.50	<2.00	<2.00	<2.00	<2.00
Vinyl Chloride	ug/L	<.26	<.26	<.26	<1.00	<1.00	<1.00	<1.00	<1.00
Xylenes, total	ug/L	<.300	<.300	<.300	<3.000	<3.000	<3.000	<3.000	<7.500
Zinc	ug/L	<20.0	54.2	94.7	23.2	40.6	59.5	120.0	71.9

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-19

Constituents	8/31/2010	2/16/2011	7/7/2011	10/27/2011	1/23/2012	4/26/2012	10/9/2012	2/20/2013	5/15/2013
Isodrin			<10.0				<10.0		
Isophorone			<10.0				<10.0		
Isosafrole			<10.0				<10.0		
Kepone			<10.0				<10.0		
Lead	<4.000	4.340	4.920	4.860		24.900	8.560	4.970	
MP-Xylene							<2	<2	
Mercury			<.200				.428	<.200	
Methacrylonitrile			<1				<2		
Methapyrilene			<10.0				<10.0		
Methoxychlor			<.0320				<.0320		
Methyl Methacrylate			<2				<2		
Methyl Methanesulfonate			<10.0				<10.0		
Methylene Bromide	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0	<1.0	
Methylene Chloride	<5.000	<5.000	<5.000	<5.000		<5.000	<5.000	<5.000	
Naphthalene			5.41	<5.00	<5.00	<5.00	<5.00	<5.00	
Nickel	<50.0	<50.0	127.0	<50.0		59.3	51.4	<50.0	<50.0
Nitrobenzene			<10.0				<10.0		
N-Nitrosodiethylamine			<10.0				<10.0		
N-Nitrosodimethylamine			<10.0				<10.0		
N-Nitrosodi-n-butylamine			<10.0				<10.0		
N-Nitrosodi-n-propylamine			<10.0				<10.0		
N-Nitrosodiphenylamine			<10.0				<10.0		
N-Nitrosomethylethylamine			<10.0				<10.0		
N-Nitrosopiperidine			<10.0				<10.0		
N-Nitrosopyrrolidine			<10.0				<10.0		
O,O,O-Triethyl Phosphorothioate			<10.0				<10.0		
o-Toluidine			<10.0				<10.0		
o-Xylene							<1	<1	
Parathion-Ethyl			<10.0				<10.0		
Parathion-Methyl			<10.0				<10.0		
PCB-1016			<.800				<.800		
PCB-1221			<.800				<.800		
PCB-1232			<.800				<.800		
PCB-1242			<.800				<.800		
PCB-1248			<.800				<.800		
PCB-1254			<.800				<.800		
PCB-1260			<.800				<.800		
Pentachlorobenzene			<10.0				<10.0		
Pentachloronitrobenzene			<10.0				<10.0		
Pentachlorophenol [2C]			<10.0				<10.0		
Phenacetin			<10.0				<10.0		
Phenanthrene			<10.0				<10.0		
Phenol			<10.0				<10.0		
Phorate			<10.0				<10.0		
Pronamide			<10.0				<10.0		
Propionitrile			<10				<10		
Pyrene			<10.0				<10.0		
Safrole			<10.0				<10.0		
Selenium	<5.00	<5.00	<5.00	<5.00		<5.00	<5.00	<5.00	
Silver	<20.00	<20.00	<20.00	<20.00		<20.00	<20.00	<20.00	
Styrene	<4.00	<1.00	<1.00	<1.00		<1.00	<1.00	<1.00	
Sulfate									
Sulfide			6.40	<1.00	<1.00	<1.00	2.60	<1.00	<1.00
Tetrachloroethene	<1.00	<1.00	<1.00	<1.00		<1.00	<1.00	<1.00	
Thallium	<2.000	<2.000	<2.000	<2.000		<2.000	<2.000	<2.000	
Thionazin			<10.0				<10.0		
Tin			<100				<100		
Toluene	<1.000	<1.000	<1.000	<1.000		<1.000	<1.000	<1.000	
Total Suspended Solids									
Toxaphene			<2.00				<2.00		
trans-1,2-Dichloroethene	<1.00	<1.00	<1.00	<1.00		<1.00	<1.00	<1.00	
trans-1,3-Dichloropropene	<10.00	<5.00	<10.00	<5.00		<5.00	<5.00	<5.00	
trans-1,4-Dichloro-2-Butene	<10.0	<10.0	<10.0	<10.0		<10.0	<10.0	<10.0	
Trichloroethene	<1.000	<1.000	<1.000	<1.000		<1.000	<1.000	<1.000	
Trichlorofluoromethane	<4.00	<4.00	<4.00	<4.00		<4.00	<4.00	<4.00	
Vanadium	<50.000	<50.000	<50.000	<50.000		53.200	<50.000	<50.000	
Vinyl Acetate	<2.00	<4.00	<2.00	<2.00		<5.00	<2.00	<2.00	
Vinyl Chloride	<1.00	<1.00	<1.00	<1.00		<1.00	<1.00	<1.00	
Xylenes, total	<3.000	<3.000	<3.000	<3.000		<3.000	<3.000	<3.000	
Zinc	35.0	<20.0	84.6	42.2		78.6	25.0	88.5	

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-19

Constituents	10/3/2013	12/18/2013	4/22/2014	10/14/2014	5/12/2015	7/29/2015	2/15/2016	10/31/2016	3/27/2017
Isodrin									<10.9
Isophorone									<10.9
Isosafrole									<10.9
Kepone									<10.9
Lead	5.590		8.170	7.690	.582	<.500	<.500	<.500	<.500
MP-Xylene									
Mercury	<.196	.332	.263	.335	<.200	<.200	<.200	<.200	<.200
Methacrylonitrile									<10
Methapyrilene									<10.9
Methoxychlor									<.3230
Methyl Methacrylate									<2
Methyl Methanesulfonate									<10.9
Methylene Bromide	<1.0		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methylene Chloride	<5.000		<5.000	<5.000	<5.000	<.181	<.374	<.457	<5.000
Naphthalene	<5.00		<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Nickel	59.0		75.6	79.7	60.3	58.5	53.1	43.4	49.9
Nitrobenzene									<10.9
N-Nitrosodiethylamine									<10.9
N-Nitrosodimethylamine									<10.9
N-Nitrosodi-n-butylamine									<10.9
N-Nitrosodi-n-propylamine									<10.9
N-Nitrosodiphenylamine									<10.9
N-Nitrosomethylethylamine									<10.9
N-Nitrosopiperidine									<10.9
N-Nitrosopyrrolidine									<10.9
O,O,O-Triethyl Phosphorothioate									<10.9
o-Toluidine									<10.9
o-Xylene									
Parathion-Ethyl									<10.9
Parathion-Methyl									<10.9
PCB-1016									<.842
PCB-1221									<.842
PCB-1232									<.842
PCB-1242									<.842
PCB-1248									<.842
PCB-1254									<.842
PCB-1260									<.842
Pentachlorobenzene									<10.9
Pentachloronitrobenzene									<10.9
Pentachlorophenol [2C]									<10.9
Phenacetin									<10.9
Phenanthrene									<10.9
Phenol									<10.9
Phorate									<10.9
Pronamide									<10.9
Propionitrile									<10
Pyrene									<10.9
Safrole									<10.9
Selenium	<5.00		<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Silver	<20.00		<20.00	<20.00	<1.00	<1.00	<1.00	<1.00	<1.00
Styrene	<1.00		<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Sulfate									
Sulfide			<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Tetrachloroethene	<1.00		<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Thallium	<2.000		<2.000	<2.000	<.045	<.044	<.035	<1.000	<1.000
Thionazin									<10.9
Tin									<5
Toluene	<1.000		<1.000	<1.000	<1.000	<1.000	<.246	<1.000	<1.000
Total Suspended Solids			190.00	730.00	24.20	12.40	2.63	<.75	<1.00
Toxaphene									<20.20
trans-1,2-Dichloroethene	<1.00		<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
trans-1,3-Dichloropropene	<5.00		<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
trans-1,4-Dichloro-2-Butene	<10.0		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Trichloroethene	<1.000		<1.000	<.291	<1.000	<1.000	<1.000	<1.000	<1.000
Trichlorofluoromethane	<4.00		<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00
Vanadium	<8.310		<25.800	<9.790	<.893	<.615	<5.000	<5.000	<5.000
Vinyl Acetate	<2.00		<2.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00
Vinyl Chloride	<1.00		<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Xylenes, total	<3.000		<3.000	<3.000	<3.000	<3.000	<.215	<3.000	<3.000
Zinc	164.0		<20.0	<20.0	<10.0	<10.0	<10.0	<10.0	<20.0

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-19

Constituents	11/13/2017	6/6/2018	11/26/2018	3/18/2019	12/2/2019	3/30/2020	11/17/2020	5/6/2021	10/7/2021
Isodrin									
Isophorone									
Isosafrole									
Kepone									
Lead	<.500	.836	<.500	<.500	<.500	<.500	<.500	<.500	<.500
MP-Xylene									
Mercury	.255	<.200	<.200	<.200	<.200	<.200		<.200	<.200
Methacrylonitrile									
Methapyrilene									
Methoxychlor									
Methyl Methacrylate									
Methyl Methanesulfonate									
Methylene Bromide	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methylene Chloride	<5.000	<5.000	<5.000	<5.000	<5.000	<5.000	<5.000	<5.000	<5.000
Naphthalene	<5.00								
Nickel	45.4	60.5	62.7 *	64.5	59.6	58.1	60.4	49.5	56.4
Nitrobenzene									
N-Nitrosodiethylamine									
N-Nitrosodimethylamine									
N-Nitrosodi-n-butylamine									
N-Nitrosodi-n-propylamine									
N-Nitrosodiphenylamine									
N-Nitrosomethylethylamine									
N-Nitrosopiperidine									
N-Nitrosopyrrolidine									
O,O,O-Triethyl Phosphorothioate									
o-Toluidine									
o-Xylene									
Parathion-Ethyl									
Parathion-Methyl									
PCB-1016									
PCB-1221									
PCB-1232									
PCB-1242									
PCB-1248									
PCB-1254									
PCB-1260									
Pentachlorobenzene									
Pentachloronitrobenzene									
Pentachlorophenol [2C]									
Phenacetin									
Phenanthrene									
Phenol									
Phorate									
Pronamide									
Propionitrile									
Pyrene									
Safrole									
Selenium	<5.00	<2.50	<5.00	<5.00	<5.00	<5.00	<5.00	<1.13	<5.00
Silver	<1.00	<.50	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Styrene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Sulfate									
Sulfide	3.09			<1.00	<1.00	<1.00	<10.00		<10.00
Tetrachloroethene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Thallium	<1.000	<2.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000
Thionazin									
Tin									
Toluene	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000
Total Suspended Solids	3.25	11.00	3.38 *	<1.88	<3.50	<.75	4.80	<1.13	7.62
Toxaphene									
trans-1,2-Dichloroethene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
trans-1,3-Dichloropropene	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
trans-1,4-Dichloro-2-Butene	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Trichloroethene	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000
Trichlorofluoromethane	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00
Vanadium	<5.000	<3.240	<.659 *	<5.000	<5.000	<5.000	<.974	<5.000	<5.000
Vinyl Acetate	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00
Vinyl Chloride	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Xylenes, total	<3.000	<3.000	<3.000	<3.000	<3.000	<3.000	<3.000	<.969	<3.000
Zinc	<20.0	<15.3	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-19

Constituents	4/6/2022	8/23/2022	3/8/2023	9/13/2023	5/29/2024	10/15/2024
Isodrin	<10.0					
Isophorone	<10.0					
Isosafrole	<10.0					
Kepone	<10.0					
Lead	<.500	<.500	<.500	<.500	<.500	<4.000
MP-Xylene						
Mercury	<.200	<.200				
Methacrylonitrile	<10					
Methapyrilene	<10.0					
Methoxychlor	<.0696					
Methyl Methacrylate	<2					
Methyl Methanesulfonate	<10.0					
Methylene Bromide	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methylene Chloride	<5.000	<5.000	<5.000	<5.000	<5.000	<5.000
Naphthalene	<5.00					
Nickel	64.3	63.8	61.7 *	43.1	59.6	55.7
Nitrobenzene	<10.0					
N-Nitrosodiethylamine	<10.0					
N-Nitrosodimethylamine	<10.0					
N-Nitrosodi-n-butylamine	<10.0					
N-Nitrosodi-n-propylamine	<10.0					
N-Nitrosodiphenylamine	<10.0					
N-Nitrosomethylethylamine	<10.0					
N-Nitrosopiperidine	<10.0					
N-Nitrosopyrrolidine	<10.0					
O,O,O-Triethyl Phosphorothioate	<10.0					
o-Toluidine	<10.0					
o-Xylene						
Parathion-Ethyl	<10.0					
Parathion-Methyl	<10.0					
PCB-1016	<.870					
PCB-1221	<.870					
PCB-1232	<.870					
PCB-1242	<.870					
PCB-1248	<.870					
PCB-1254	<.870					
PCB-1260	<.870					
Pentachlorobenzene	<10.0					
Pentachloronitrobenzene	<10.0					
Pentachlorophenol [2C]	<10.0					
Phenacetin	<10.0					
Phenanthrene	<10.0					
Phenol	<10.0					
Phorate	<10.0					
Pronamide	<10.0					
Propionitrile	<10					
Pyrene	<10.0					
Safrole	<10.0					
Selenium	<5.00	<5.00	<5.00	<5.00	<5.00	<4.00
Silver	<1.00	<1.00	<1.00	<1.00	<1.00	<4.00
Styrene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Sulfate						14.3
Sulfide	<1.00	<1.00	<1.00	<1.00	<1.00	
Tetrachloroethene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Thallium	<1.000	<1.000	<1.000	<1.000	<1.000	<2.000
Thionazin	<10.0					
Tin	<5					
Toluene	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000
Total Suspended Solids	1.88	2.50	3.44 *	3.75	5.50	
Toxaphene	<2.17					
trans-1,2-Dichloroethene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
trans-1,3-Dichloropropene	<5.00	<5.00	<5.00	<5.00	<5.00	<1.00
trans-1,4-Dichloro-2-Butene	<10.0	<10.0	<10.0	<10.0	<10.0	<5.0
Trichloroethene	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000
Trichlorofluoromethane	<4.00	<4.00	<4.00	<4.00	<4.00	<1.00
Vanadium	<5.000	<5.000	<5.000	<5.000	<5.000	<20.000
Vinyl Acetate	<10.00	<10.00	<10.00	<10.00	<10.00	<5.00
Vinyl Chloride	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Xylenes, total	<3.000	<3.000	<3.000	<3.000	<3.000	<2.000
Zinc	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-20

Constituents	Units	9/11/2008	12/10/2008	3/3/2009	8/21/2009	10/21/2009	3/11/2010	8/31/2010	2/16/2011
1,1,1,2-Tetrachloroethane	ug/L	<1.0	<5.0	<5.0	<5.0	<2.0	<5.0	<5.0	<5.0
1,1,1-Trichloroethane	ug/L	<1.0	<5.0	<5.0	<5.0	<1.0	<1.0	<5.0	<5.0
1,1,2,2-Tetrachloroethane	ug/L	<1	<5	<5	<5	<2	<1	<5	<5
1,1,2-Trichloroethane	ug/L	<1.0	<5.0	<5.0	<5.0	<2.0	<1.0	<5.0	<5.0
1,1-Dichloroethane	ug/L	<1.0	<5.0	<5.0	<5.0	<1.0	<1.0	<5.0	<5.0
1,1-Dichloroethene	ug/L	<2	<10	<10	<10	<2	<2	<10	<10
1,1-Dichloropropene	ug/L				<5			<5	
1,2,3-Trichloropropane	ug/L	<1.0	<5.0	<5.0	<5.0	<2.0	<2.5	<5.0	<5.0
1,2,4,5-Tetrachlorobenzene	ug/L				<10.0			<10.0	
1,2,4-Trichlorobenzene	ug/L				<25			<25	
1,2-Dibromo-3-Chloropropane	ug/L	<.860	<4.300	<4.300	<50.000	<.498	<.498	<50.000	<.600
1,2-Dibromoethane	ug/L	<.250	<1.250	<1.250	<50.000	<.255	<.255	<50.000	<.650
1,2-Dichlorobenzene	ug/L	<1.0	<5.0	<5.0	<5.0	<2.0	<1.0	<5.0	<5.0
1,2-Dichloroethane	ug/L	<1.0	<5.0	<5.0	<5.0	<2.0	<1.0	<5.0	<5.0
1,2-Dichloropropane	ug/L	<1.0	<5.0	<5.0	<5.0	<2.0	<1.0	<5.0	<5.0
1,3,5-Trinitrobenzene	ug/L				<10.0			<10.0	
1,3-Dichlorobenzene	ug/L				<5			<5	
1,3-Dichloropropane	ug/L				<5			<5	
1,3-Dinitrobenzene	ug/L				<10.0			<10.0	
1,4-Dichlorobenzene	ug/L	<1.00	<5.00	<5.00	<5.00	<2.00	<1.00	<5.00	<5.00
1,4-Naphthoquinone	ug/L				<10.0			<10.0	
1,4-Phenylenediamine	ug/L				<10.0			<10.0	
1-Naphthylamine	ug/L				<10.0			<10.0	
2,2-Dichloropropane	ug/L				<20			<20	
2,3,4,6-Tetrachlorophenol	ug/L				<10.0			<10.0	
2,4,5-T	ug/L								
2,4,5-T [2C]	ug/L				<.200			<.520	
2,4,5-TP [Silvex] [2C]	ug/L				1.20	.86	<1.10	<.52	<5.00
2,4,5-Trichlorophenol	ug/L				<10.0			<10.0	
2,4,6-Trichlorophenol	ug/L				<10.0			<10.0	
2,4-D [2C]	ug/L				<1.00			<1.00	
2,4-Dichlorophenol	ug/L				<10.0			<10.0	
2,4-Dimethylphenol	ug/L				<10.000			<10.000	
2,4-Dinitrophenol	ug/L				<20.0			<20.0	
2,4-Dinitrotoluene	ug/L				<10.0			<10.0	
2,6-Dichlorophenol	ug/L				<10.0			<10.0	
2,6-Dinitrotoluene	ug/L				<10.0			<10.0	
2-Acetylaminofluorene	ug/L				<10.0			<10.0	
2-Butanone	ug/L	<10	<50	<50	<50	<10	<10	<50	<50
2-Chloronaphthalene	ug/L				<10.0			<10.0	
2-Chlorophenol	ug/L				<10.0			<10.0	
2-Hexanone	ug/L	<10	<50	<50	<50	<10	<10	<50	<50
2-Methylnaphthalene	ug/L				<10.0			<10.0	
2-Methylphenol	ug/L				<10.0			<10.0	
2-Naphthylamine	ug/L				<10.0			<10.0	
2-Nitroaniline	ug/L				<10.0			<10.0	
2-Nitrophenol	ug/L				<10.0			<10.0	
3,3-Dichlorobenzidine	ug/L				<10.0			<10.0	
3,3-Dimethylbenzidine	ug/L				<10.0			<10.0	
3/4-Methylphenol	ug/L				<10.000			<10.000	
3-Chloropropene	ug/L				<10			<10	
3-Methylcholanthrene	ug/L				<10.0			<10.0	
3-Nitroaniline	ug/L				<10.0			<10.0	
4,4`-DDD	ug/L				<.03200			.03400	<.32000
4,4`-DDE	ug/L				<.0320			<.0320	
4,4`-DDT	ug/L				<.03200			<.03200	
4,6-Dinitro-2-methylphenol	ug/L				<10.0			<10.0	
4-Aminobiphenyl	ug/L				<10.0			<10.0	
4-Bromophenyl phenyl ether	ug/L				<10.0			<10.0	
4-Chloro-3-methylphenol	ug/L				<10.000			11.000	<10.000
4-Chloroaniline	ug/L				<10.0			<10.0	
4-Chlorophenyl phenyl ether	ug/L				<10.0			<10.0	
4-Methyl-2-Pentanone	ug/L	<10	<50	<50	<50	<10	<10	<50	<50
4-Nitroaniline	ug/L				<10.0			<10.0	
4-Nitrophenol	ug/L				<10.0			<10.0	
5-Nitro-o-toluidine	ug/L				<10.0			<10.0	
7,12-Dimethylbenz [a] anthracene	ug/L				<10.0			<10.0	
Acenaphthene	ug/L				<10.0			<10.0	
Acenaphthylene	ug/L				<10.0			<10.0	
Acetone	ug/L	<10.00	<50.00	<50.00	<50.00	<10.00	17.90	<50.00	100.00
Acetonitrile	ug/L				<10000			<10000	
Acetophenone	ug/L				<10.000			<10.000	
Acrolein	ug/L				<50			<50	
Acrylonitrile	ug/L	<10	<50	<50	<50	<10	<10	<50	<50
Aldrin	ug/L				<.0320			<.0320	
alpha-BHC	ug/L				<.0320			<.0320	
Anthracene	ug/L				<10.000			<10.000	

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-20

Constituents	10/27/2011	4/26/2012	10/9/2012	2/20/2013	5/15/2013	10/3/2013	4/22/2014	10/14/2014	5/12/2015
1,1,1,2-Tetrachloroethane	<5.0	<5.0	<5.0	<2.1		<1.0	<10.0	<1.0	<1.0
1,1,1-Trichloroethane	<5.0	<5.0	<5.0	<1.2		<1.0	<10.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane	<5	<5	<5	<1		<1	<10	<1	<1
1,1,2-Trichloroethane	<5.0	<5.0	<10.0	<1.2		<1.0	<10.0	<1.0	<1.0
1,1-Dichloroethane	<5.0	<5.0	<5.0	<2.1		<1.0	<10.0	<1.0	<1.0
1,1-Dichloroethene	<10	<5	<10	<2		<2	<20	<2	<2
1,1-Dichloropropene	<5								
1,2,3-Trichloropropane	<5.0	<5.0	<5.0	<1.9		<1.0	<10.0	<1.0	<1.0
1,2,4,5-Tetrachlorobenzene	<10.0								
1,2,4-Trichlorobenzene	<25								
1,2-Dibromo-3-Chloropropane	<.600	<.200	<.600	<1.200		<.120	<1.200	<.120	<.500
1,2-Dibromoethane	<.650	<.050	<.650	<1.300		<.130	<1.300	<.130	<.130
1,2-Dichlorobenzene	<5.0	<5.0	<5.0	<1.4		<1.0	<10.0	<1.0	<1.0
1,2-Dichloroethane	<5.0	<5.0	<5.0	<1.8		<1.0	<10.0	<1.0	<1.0
1,2-Dichloropropane	<5.0	<5.0	<5.0	<8.7		<1.0	<10.0	<1.0	<1.0
1,3,5-Trinitrobenzene	<10.0								
1,3-Dichlorobenzene	<5								
1,3-Dichloropropane	<5								
1,3-Dinitrobenzene	<10.0								
1,4-Dichlorobenzene	<5.00	<5.00	<5.00	<2.00		2.88	<10.00	1.92	<1.00
1,4-Naphthoquinone	<10.0								
1,4-Phenylenediamine	<10.0								
1-Naphthylamine	<10.0								
2,2-Dichloropropane	<20								
2,3,4,6-Tetrachlorophenol	<10.0								
2,4,5-T									
2,4,5-T [2C]	<1.100								
2,4,5-TP [Silvex] [2C]	<1.10	<1.00	<.29	<1.00		<1.10	<1.01	1.93	<1.08
2,4,5-Trichlorophenol	<10.0								
2,4,6-Trichlorophenol	<10.0								
2,4-D [2C]	<1.10								
2,4-Dichlorophenol	<10.0								
2,4-Dimethylphenol	<10.000								
2,4-Dinitrophenol	<20.0								
2,4-Dinitrotoluene	<10.0								
2,6-Dichlorophenol	<10.0								
2,6-Dinitrotoluene	<10.0								
2-Acetylaminofluorene	<10.0								
2-Butanone	<50	<50	<50	<10		<10	<100	<10	<10
2-Chloronaphthalene	<10.0								
2-Chlorophenol	<10.0								
2-Hexanone	<50	<50	<50	<10		<10	<100	<10	<10
2-Methylnaphthalene	<10.0								
2-Methylphenol	<10.0								
2-Naphthylamine	<10.0								
2-Nitroaniline	<10.0								
2-Nitrophenol	<10.0								
3,3-Dichlorobenzidine	<10.0								
3,3-Dimethylbenzidine	<10.0								
3/4-Methylphenol	<10.000								
3-Chloropropene	<10								
3-Methylcholanthrene	<10.0								
3-Nitroaniline	<10.0								
4,4`-DDD	<.03200	<.03000	.04780	<.03200		<.03270	<.00240	<.00245	<.03200
4,4`-DDE	<.0320								
4,4`-DDT	<.03200								
4,6-Dinitro-2-methylphenol	<10.0								
4-Aminobiphenyl	<10.0								
4-Bromophenyl phenyl ether	<10.0								
4-Chloro-3-methylphenol	<10.000	<10.000	<10.000	<10.000		<1.950	<103.000	<.619	<.590
4-Chloroaniline	<10.0								
4-Chlorophenyl phenyl ether	<10.0								
4-Methyl-2-Pentanone	<50	<50	<50	<10		<10	<100	<10	<10
4-Nitroaniline	<10.0								
4-Nitrophenol	<10.0								
5-Nitro-o-toluidine	<10.0								
7,12-Dimethylbenz [a] anthracene	<10.0								
Acenaphthene	<10.0								
Acenaphthylene	<10.0								
Acetone	<50.00	<50.00	<50.00	24.40		<10.00	<26.70	<10.00	52.10
Acetonitrile	<10000								
Acetophenone	<10.000								
Acrolein	<50								
Acrylonitrile	<50	<25	<50	<10		<10	<100	<10	<10
Aldrin	<.0320								
alpha-BHC	<.0320								
Anthracene	<10.000								

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-20

Constituents	7/29/2015	2/15/2016	10/31/2016	3/27/2017	5/31/2017	7/12/2017	11/13/2017	6/6/2018	11/27/2018
1,1,1,2-Tetrachloroethane	<1.0	<10.0	<1.0	<1.0			<10.0	<1.0	<1.0
1,1,1-Trichloroethane	<1.0	<10.0	<1.0	<1.0			<10.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane	<1	<10	<1	<1			<10	<1	<1
1,1,2-Trichloroethane	<1.0	<10.0	<1.0	<1.0			<10.0	<1.0	<1.0
1,1-Dichloroethane	<1.0	<10.0	<1.0	<1.0			<10.0	<1.0	<1.0
1,1-Dichloroethene	<2	<20	<2	<2			<20	<2	<2
1,1-Dichloropropene		<10							
1,2,3-Trichloropropane	<1.0	<10.0	<1.0	<1.0			<10.0	<1.0	<1.0
1,2,4,5-Tetrachlorobenzene		<10.5							
1,2,4-Trichlorobenzene		<50							
1,2-Dibromo-3-Chloropropane	<.500	<5.000	<.500	<.500			<5.000	<.500	<1.200
1,2-Dibromoethane	<.130	<1.300	<.130	<.130			<1.300	<.130	<.340
1,2-Dichlorobenzene	<1.0	<10.0	<1.0	<1.0			<10.0	<1.0	<1.0
1,2-Dichloroethane	<1.0	<10.0	<1.0	<1.0			<10.0	<1.0	<1.0
1,2-Dichloropropane	<1.0	<10.0	<1.0	<1.0			<10.0	<1.0	<1.0
1,3,5-Trinitrobenzene		<10.5							
1,3-Dichlorobenzene		<10							
1,3-Dichloropropane		<10							
1,3-Dinitrobenzene		<10.5							
1,4-Dichlorobenzene	1.56	<10.00	<1.00	<1.00			<2.82	2.05 *	1.98
1,4-Naphthoquinone		<10.5							
1,4-Phenylenediamine		<10.5							
1-Naphthylamine		<10.5							
2,2-Dichloropropane		<40							
2,3,4,6-Tetrachlorophenol		<10.5							
2,4,5-T									
2,4,5-T [2C]		<5.530							
2,4,5-TP [Silvex] [2C]	<1.08	<5.53	<10.50	<1.24			<1.07	<1.01	<1.09
2,4,5-Trichlorophenol		<10.5							
2,4,6-Trichlorophenol		<10.5							
2,4-D [2C]		<5.53							
2,4-Dichlorophenol		<10.5							
2,4-Dimethylphenol		<.502							
2,4-Dinitrophenol		<21.1							
2,4-Dinitrotoluene		<10.5							
2,6-Dichlorophenol		<10.5							
2,6-Dinitrotoluene		<10.5							
2-Acetylaminofluorene		<10.5							
2-Butanone	<10	<100	<10	<10			<100	<10	<10
2-Chloronaphthalene		<10.5							
2-Chlorophenol		<10.5							
2-Hexanone	<10	<100	<10	<10			<100	<10	<10
2-Methylnaphthalene		<10.5							
2-Methylphenol		<10.5							
2-Naphthylamine		<10.5							
2-Nitroaniline		<10.5							
2-Nitrophenol		<10.5							
3,3-Dichlorobenzidine		<52.6							
3,3-Dimethylbenzidine		<10.5							
3/4-Methylphenol		<.249							
3-Chloropropene		<20							
3-Methylcholanthrene		<10.5							
3-Nitroaniline		<10.5							
4,4`-DDD	<.03270	<.01140		<.17400			<.01020		
4,4`-DDE		<.0333							
4,4`-DDT		<.00459							
4,6-Dinitro-2-methylphenol		<10.5							
4-Aminobiphenyl		<10.5							
4-Bromophenyl phenyl ether		<10.5							
4-Chloro-3-methylphenol	<.576	<10.500	<3.200	<10.200			<4.030		
4-Chloroaniline		<10.5							
4-Chlorophenyl phenyl ether		<10.5							
4-Methyl-2-Pentanone	<10	<100	<10	<10			<100	<10	<10
4-Nitroaniline		<10.5							
4-Nitrophenol		<10.5							
5-Nitro-o-toluidine		<10.5							
7,12-Dimethylbenz [a] anthracene		<10.5							
Acenaphthene		<10.5							
Acenaphthylene		<10.5							
Acetone	<10.00	<100.00	<4.17	<2.73			<23.40	8.18 *	<10.00
Acetonitrile		<10000							
Acetophenone		<.428							
Acrolein		<100							
Acrylonitrile	<10	<100	<10	<10			<100	<10	<10
Aldrin		<.0333							
alpha-BHC		<.0333							
Anthracene		<.325							

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-20

Constituents	3/18/2019	12/2/2019	3/30/2020	11/17/2020	5/6/2021	10/7/2021	4/6/2022	8/23/2022	3/8/2023
1,1,1,2-Tetrachloroethane	<1.0	<1.0	<1.0	<10.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,1-Trichloroethane	<1.0	<1.0	<1.0	<10.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane	<1	<1	<1	<10	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	<1.0	<1.0	<1.0	<10.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethane	<1.0	<1.0	<1.0	<10.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethene	<2	<2	<2	<20	<2	<2	<2	<2	<2
1,1-Dichloropropene					<1				
1,2,3-Trichloropropane	<1.0	<1.0	<1.0	<10.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,4,5-Tetrachlorobenzene					<10.5				
1,2,4-Trichlorobenzene					<5				
1,2-Dibromo-3-Chloropropane	<1.200	<1.200	<5.000	<50.000	<5.000	<5.000	<5.000	<5.000	<5.000
1,2-Dibromoethane	<.340	<.340	<1.000	<10.000	<1.000	<1.000	<1.000	<1.000	<1.000
1,2-Dichlorobenzene	<1.0	<1.0	<1.0	<10.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloroethane	<1.0	<1.0	<1.0	<10.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane	<1.0	<1.0	<1.0	<10.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3,5-Trinitrobenzene					<10.5				
1,3-Dichlorobenzene					<1				
1,3-Dichloropropane					<1				
1,3-Dinitrobenzene					<10.5				
1,4-Dichlorobenzene	<1.00	<1.00	1.81	<10.00	<1.00	1.69 *	1.94	1.79	2.40
1,4-Naphthoquinone					<10.5				
1,4-Phenylenediamine					<10.5				
1-Naphthylamine					<10.5				
2,2-Dichloropropane					<4				
2,3,4,6-Tetrachlorophenol					<10.5				
2,4,5-T									
2,4,5-T [2C]					2.800		<1.040	<.600	<.500
2,4,5-TP [Silvex] [2C]	<1.10				<1.08				
2,4,5-Trichlorophenol					<10.5				
2,4,6-Trichlorophenol					<10.5				
2,4-D [2C]					<1.08				
2,4-Dichlorophenol					<10.5				
2,4-Dimethylphenol					<10.500				
2,4-Dinitrophenol					<21.1				
2,4-Dinitrotoluene					<10.5				
2,6-Dichlorophenol					<10.5				
2,6-Dinitrotoluene					<10.5				
2-Acetylaminofluorene					<10.5				
2-Butanone	<10	<10	<10	<100	<10	<10	<10	<10	<10
2-Chloronaphthalene					<10.5				
2-Chlorophenol					<10.5				
2-Hexanone	<10	<10	<10	<100	<10	<10	<10	<10	<10
2-Methylnaphthalene					<10.5				
2-Methylphenol					<10.5				
2-Naphthylamine					<10.5				
2-Nitroaniline					<10.5				
2-Nitrophenol					<10.5				
3,3-Dichlorobenzidine					<10.5				
3,3-Dimethylbenzidine					<10.5				
3/4-Methylphenol					<10.500				
3-Chloropropene					<2				
3-Methylcholanthrene					<10.5				
3-Nitroaniline					<10.5				
4,4`-DDD					<.03480				
4,4`-DDE					<.0348				
4,4`-DDT					<.03480				
4,6-Dinitro-2-methylphenol					<10.5				
4-Aminobiphenyl					<10.5				
4-Bromophenyl phenyl ether					<10.5				
4-Chloro-3-methylphenol					<10.500				
4-Chloroaniline					<10.5				
4-Chlorophenyl phenyl ether					<10.5				
4-Methyl-2-Pentanone	<10	<10	<10	<100	<10	<10	<10	<10	<10
4-Nitroaniline					<10.5				
4-Nitrophenol					<10.5				
5-Nitro-o-toluidine					<10.5				
7,12-Dimethylbenz [a] anthracene					<10.5				
Acenaphthene					<10.5				
Acenaphthylene					<10.5				
Acetone	<7.76	<6.21	<10.00	<100.00	<4.94	<10.00	<10.00	<8.49	<6.42
Acetonitrile					<10000				
Acetophenone					<10.500				
Acrolein					<10				
Acrylonitrile	<10	<10	<5	<50	<5	<5	<5	<5	<5
Aldrin					<.0348				
alpha-BHC					<.0348				
Anthracene					<10.500				

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-20

Constituents	9/13/2023	5/29/2024	10/15/2024
1,1,1,2-Tetrachloroethane	<1.0	<1.0	<1.0
1,1,1-Trichloroethane	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane	<1	<1	<1
1,1,2-Trichloroethane	<1.0	<1.0	<1.0
1,1-Dichloroethane	<1.0	<1.0	<1.0
1,1-Dichloroethene	<2	<2	<1
1,1-Dichloropropene			
1,2,3-Trichloropropane	<1.0	<1.0	<1.0
1,2,4,5-Tetrachlorobenzene			
1,2,4-Trichlorobenzene			
1,2-Dibromo-3-Chloropropane	<5.000	<5.000	<5.000
1,2-Dibromoethane	<1.000	<1.000	<1.000
1,2-Dichlorobenzene	<1.0	<1.0	<1.0
1,2-Dichloroethane	<1.0	<1.0	<1.0
1,2-Dichloropropane	<1.0	<1.0	<1.0
1,3,5-Trinitrobenzene			
1,3-Dichlorobenzene			
1,3-Dichloropropane			
1,3-Dinitrobenzene			
1,4-Dichlorobenzene	2.48	1.93 *	3.10
1,4-Naphthoquinone			
1,4-Phenylenediamine			
1-Naphthylamine			
2,2-Dichloropropane			
2,3,4,6-Tetrachlorophenol			
2,4,5-T			<.5
2,4,5-T [2C]	<.994	<.147	
2,4,5-TP [Silvex] [2C]			
2,4,5-Trichlorophenol			
2,4,6-Trichlorophenol			
2,4-D [2C]			
2,4-Dichlorophenol			
2,4-Dimethylphenol			
2,4-Dinitrophenol			
2,4-Dinitrotoluene			
2,6-Dichlorophenol			
2,6-Dinitrotoluene			
2-Acetylaminofluorene			
2-Butanone	<10	<10	<10
2-Chloronaphthalene			
2-Chlorophenol			
2-Hexanone	<10	<10	<5
2-Methylnaphthalene			
2-Methylphenol			
2-Naphthylamine			
2-Nitroaniline			
2-Nitrophenol			
3,3-Dichlorobenzidine			
3,3-Dimethylbenzidine			
3/4-Methylphenol			
3-Chloropropene			
3-Methylcholanthrene			
3-Nitroaniline			
4,4`-DDD			
4,4`-DDE			
4,4`-DDT			
4,6-Dinitro-2-methylphenol			
4-Aminobiphenyl			
4-Bromophenyl phenyl ether			
4-Chloro-3-methylphenol			
4-Chloroaniline			
4-Chlorophenyl phenyl ether			
4-Methyl-2-Pentanone	<10	<10	<5
4-Nitroaniline			
4-Nitrophenol			
5-Nitro-o-toluidine			
7,12-Dimethylbenz [a] anthracene			
Acenaphthene			
Acenaphthylene			
Acetone	<8.10	<10.00	<10.00
Acetonitrile			
Acetophenone			
Acrolein			
Acrylonitrile	<5	<5	<5
Aldrin			
alpha-BHC			
Anthracene			

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-20

Constituents	Units	9/11/2008	12/10/2008	3/3/2009	8/21/2009	10/21/2009	3/11/2010	8/31/2010	2/16/2011
Antimony	ug/L	<6.000	<6.000	<6.000	<6.000	<6.000	<6.000	6.450	<6.000
Arsenic	ug/L	6.60	66.30	80.40	108.00	95.00	83.50	20.00	136.00
Barium	ug/L	646	3940	4460	4150	4270	3760	3880	4350
Benzene	ug/L	<.50	4.05	4.15	3.40	.92	3.72	3.80	3.85
Benzo [a] anthracene	ug/L				<10.0			<10.0	
Benzo [a] pyrene	ug/L				<10.0			<10.0	
Benzo [b] fluoranthene	ug/L				<10.0			<10.0	
Benzo [g,h,i] perylene	ug/L				<10.0			<10.0	
Benzo [k] fluoranthene	ug/L				<10.0			<10.0	
Benzyl alcohol	ug/L				<10.0			<10.0	
Beryllium	ug/L	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
beta-BHC	ug/L				<.0320			<.0320	
Bis[2-chloroethoxy]methane	ug/L				<10.0			<10.0	
Bis[2-chloroethyl]ether	ug/L				<10.0			<10.0	
Bis[2-chloroisopropyl]ether	ug/L				<10.0			<10.0	
Bis[2-ethylhexyl]phthalate	ug/L				<10.0			<10.0	
Bromochloromethane	ug/L	<5	<25	<25	<25	<5	<5	<25	<25
Bromodichloromethane	ug/L	<1.0	<5.0	<5.0	<5.0	<2.0	<5.0	<5.0	<5.0
Bromoform	ug/L	<5	<25	<25	<25	<10	<5	<25	<25
Bromomethane	ug/L	<4.00	<20.00	<20.00	<20.00	<4.00	<4.00	<20.00	<20.00
Butyl benzyl phthalate	ug/L				<10.0			<10.0	
Cadmium	ug/L	14.800	<.500	1.120	6.240	4.040	.685	.520	1.690
Carbon Disulfide	ug/L	<1.0	<5.0	<5.0	<5.0	<5.0	<1.0	<5.0	<5.0
Carbon Tetrachloride	ug/L	<2.0	<10.0	<10.0	<10.0	<2.0	<10.0	<20.0	<10.0
Chlordane	ug/L				<2.00			<2.00	
Chlorobenzene	ug/L	<1.00	<5.00	6.20	5.00	<2.00	5.81	6.85	7.25
Chlorobenzilate	ug/L				<10.0			<10.0	
Chlorodibromomethane	ug/L	<5	<25	<25	<25	<5	<5	<25	<25
Chloroethane	ug/L	<4.000	<20.000	<20.000	<20.000	<4.000	4.130	<20.000	<20.000
Chloroform	ug/L	<1.00	<12.50	<5.00	<5.00	<2.00	<1.00	<5.00	<5.00
Chloromethane	ug/L	<3.00	<15.00	<15.00	<15.00	<3.00	<3.00	<15.00	<15.00
Chloroprene	ug/L				<5			<5	
Chromium	ug/L	<20.00	<20.00	<20.00	<20.00	<20.00	<20.00	<20.00	<20.00
Chrysene	ug/L				<10.0			<10.0	
cis-1,2-Dichloroethene	ug/L	<1.000	<5.000	<5.000	<5.000	<1.000	<1.000	<5.000	<5.000
cis-1,3-Dichloropropene	ug/L	<5	<25	<25	<25	<5	<5	<25	<25
Cobalt	ug/L	<20.00	23.30	37.50	30.60	25.50	20.60	22.00	25.70
Copper	ug/L	<20.000	<20.000	<20.000	33.400	<20.000	<20.000	<20.000	<20.000
Cyanide	mg/L				<.01			<.01	
delta-BHC	ug/L				<.03200			<.03200	
Diallate [cis or trans]	ug/L				<10.0			<10.0	
Dibenz [a,h] anthracene	ug/L				<10.0			<10.0	
Dibenzofuran	ug/L				<10.0			<10.0	
Dichlorodifluoromethane	ug/L				<15			<15	
Dieldrin	ug/L				<.0320			<.0320	
Diethyl phthalate	ug/L				<10.000			<10.000	
Dimethoate	ug/L				<10.0			<10.0	
Dimethyl phthalate	ug/L				<10.0			<10.0	
Dimethylaminoazobenzene	ug/L				<10.0			<10.0	
Di-n-butyl phthalate	ug/L				<10.00			<10.00	
Di-n-octyl phthalate	ug/L				<10.0			<10.0	
Dinoseb	ug/L				<10.0			<10.0	
Diphenylamine	ug/L				<10.0			<10.0	
Disulfoton	ug/L				<10.0			<10.0	
Endosulfan I	ug/L				<.03200			.07290	<.32000
Endosulfan II	ug/L				<.0320			<.0320	
Endosulfan sulfate	ug/L				<.03200			<.03200	
Endrin	ug/L				<.0320			<.0320	
Endrin aldehyde	ug/L				<.0320			<.0320	
Ethyl Methacrylate	ug/L				<10			<10	
Ethyl Methanesulfonate	ug/L				<10.0			<10.0	
Ethylbenzene	ug/L	<1.000	<5.000	<5.000	<5.000	<2.000	1.440	<5.000	<5.000
Famphur	ug/L				<20.0			<20.0	
Fluoranthene	ug/L				<10.0			<10.0	
Fluorene	ug/L				<10.0			<10.0	
gamma-BHC [Lindane]	ug/L				<.0320			<.0320	
gamma-Chlordane	ug/L								
Heptachlor	ug/L				<.0320			<.0320	
Heptachlor Epoxide	ug/L				<.0320			<.0320	
Hexachlorobenzene	ug/L				<10.0			<10.0	
Hexachlorobutadiene	ug/L				<10.0			<10.0	
Hexachlorocyclopentadiene	ug/L				<10.0			<10.0	
Hexachloroethane	ug/L				<10.0			<10.0	
Hexachloropropene	ug/L				<10.0			<10.0	
Indeno [1,2,3-cd] pyrene	ug/L				<10.0			<10.0	
Iodomethane	ug/L	<10	<50	<50	<50	<10	<10	<10	<50
Isobutanol	ug/L				<10000			<10000	

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-20

Constituents	10/27/2011	4/26/2012	10/9/2012	2/20/2013	5/15/2013	10/3/2013	4/22/2014	10/14/2014	5/12/2015
Antimony	<6.000	<6.000	<12.000	<6.000		<1.310	<6.000	<6.000	<.312
Arsenic	92.60	85.30	49.10	90.40		153.00	111.00	140.00	97.30
Barium	4770	4920	4320	5540		2730	2950	2400	2430
Benzene	3.65	4.30	3.40	4.09		2.89	<2.29	3.89	2.27
Benzo [a] anthracene	<10.0								
Benzo [a] pyrene	<10.0								
Benzo [b] fluoranthene	<10.0								
Benzo [g,h,i] perylene	<10.0								
Benzo [k] fluoranthene	<10.0								
Benzyl alcohol	<10.0								
Beryllium	<1.00	<4.00	<1.00	<1.00		<1.00	<1.00	<1.00	<.09
beta-BHC	<.0320								
Bis[2-chloroethoxy]methane	<10.0								
Bis[2-chloroethyl]ether	<10.0								
Bis[2-chloroisopropyl]ether	<10.0								
Bis[2-ethylhexyl]phthalate	<10.0								
Bromochloromethane	<25	<25	<25	<5		<5	<50	<5	<5
Bromodichloromethane	<5.0	<5.0	<10.0	<1.2		<1.0	<10.0	<1.0	<1.0
Bromoform	<25	<25	<25	<5		<5	<50	<5	<5
Bromomethane	<100.00	<250.00	<25.00	<4.00		<4.00	<40.00	<4.00	<4.00
Butyl benzyl phthalate	<10.0								
Cadmium	.827	1.900	3.950	<.500		.817	.743	.693	.694
Carbon Disulfide	<5.0	<5.0	<5.0	<1.5		<1.0	<10.0	<1.0	<1.0
Carbon Tetrachloride	<10.0	<10.0	<10.0	<2.4		<2.0	<20.0	<2.0	<2.0
Chlordane	<2.00								
Chlorobenzene	7.55	6.90	7.05	7.78		5.57	<10.00	4.54	1.88
Chlorobenzilate	<10.0								
Chlorodibromomethane	<25	<25	<25	<5		<5	<50	<5	<5
Chloroethane	<20.000	<20.000	<20.000	<4.000		<2.210	<40.000	<4.000	<1.520
Chloroform	<5.00	<5.00	<10.00	<2.80		<1.00	<10.00	<1.00	<1.00
Chloromethane	<15.00	<15.00	<15.00	<3.10		<3.00	<30.00	<3.00	<3.00
Chloroprene	<5								
Chromium	<20.00	<20.00	<20.00	<20.00		<4.11	<20.00	24.20	<5.00
Chrysene	<10.0								
cis-1,2-Dichloroethene	<5.000	<5.000	<5.000	<1.300		<.331	<10.000	<1.000	<1.000
cis-1,3-Dichloropropene	<25	<25	<25	<5		<5	<50	<5	<5
Cobalt	28.90	29.20	24.00	38.10		17.40	13.00	14.60	12.70
Copper	21.000	<20.000	<20.000	<20.000		<20.000	<20.000	<3.960	2.180
Cyanide	<.01								
delta-BHC	<.03200								
Diallate [cis or trans]	<10.0								
Dibenz [a,h] anthracene	<10.0								
Dibenzofuran	<10.0								
Dichlorodifluoromethane	<15								
Dieldrin	<.0320								
Diethyl phthalate	<10.000								
Dimethoate	<10.0								
Dimethyl phthalate	<10.0								
Dimethylaminoazobenzene	<10.0								
Di-n-butyl phthalate	<10.00								
Di-n-octyl phthalate	<10.0								
Dinoseb	<10.0								
Diphenylamine	<10.0								
Disulfoton	<10.0								
Endosulfan I	.10800	<.03000	.04490	<.03200		.06320	.07070	.03870	<.01970
Endosulfan II	<.0320								
Endosulfan sulfate	<.03200								
Endrin	<.0320								
Endrin aldehyde	<.0320								
Ethyl Methacrylate	<10								
Ethyl Methanesulfonate	<10.0								
Ethylbenzene	<5.000	<5.000	<5.000	<2.100		<.418	<10.000	<1.000	<1.000
Famphur	<20.0								
Fluoranthene	<10.0								
Fluorene	<10.0								
gamma-BHC [Lindane]	<.0320								
gamma-Chlordane									
Heptachlor	<.0320								
Heptachlor Epoxide	<.0320								
Hexachlorobenzene	<10.0								
Hexachlorobutadiene	<10.0								
Hexachlorocyclopentadiene	<10.0								
Hexachloroethane	<10.0								
Hexachloropropene	<10.0								
Indeno [1,2,3-cd] pyrene	<10.0								
Iodomethane	<100	<50	<50	<10		<10	<100	<10	<10
Isobutanol	<10000								

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-20

Constituents	7/29/2015	2/15/2016	10/31/2016	3/27/2017	5/31/2017	7/12/2017	11/13/2017	6/6/2018	11/27/2018
Antimony	<1.000	<.217	<.333	<1.000			<.392	<3.000	<1.000
Arsenic	77.40	62.80	102.00	61.00			81.10	66.45 *	59.20
Barium	2290	2660	4200	2190			3290	2400 *	1930
Benzene	2.93	<3.38	3.72	2.62			<4.03	2.88 *	3.06
Benzo [a] anthracene		<10.5							
Benzo [a] pyrene		<10.5							
Benzo [b] fluoranthene		<10.5							
Benzo [g,h,i] perylene		<10.5							
Benzo [k] fluoranthene		<10.5							
Benzyl alcohol		<10.5							
Beryllium	<1.00	<1.00	<1.00	<1.00			<1.00	<1.00	<1.00
beta-BHC		<.0214							
Bis[2-chloroethoxy]methane		<10.5							
Bis[2-chloroethyl]ether		<10.5							
Bis[2-chloroisopropyl]ether		<10.5							
Bis[2-ethylhexyl]phthalate		<2.6							
Bromochloromethane	<5	<50	<5	<5			<50	<5	<5
Bromodichloromethane	<1.0	<10.0	<1.0	<1.0			<10.0	<1.0	<1.0
Bromoform	<5	<50	<5	<5			<50	<5	<5
Bromomethane	<4.00	<40.00	<4.00	<4.00			<4.83	<4.00	<4.00
Butyl benzyl phthalate		<10.5							
Cadmium	<.500	<.500	<.500	<.500			<.500	<.500	<.500
Carbon Disulfide	<1.0	<10.0	<1.0	<1.0			<10.0	<1.0	<1.0
Carbon Tetrachloride	<2.0	<20.0	<2.0	<2.0			<20.0	<2.0	<2.0
Chlordane		<2.08							
Chlorobenzene	2.83	<10.00	4.59	2.88			<4.13	3.49 *	3.36
Chlorobenzilate		<10.5							
Chlorodibromomethane	<5	<50	<5	<5			<50	<5	<5
Chloroethane	<2.310	<40.000	<1.190	<1.280			<40.000	<1.275 *	<1.510
Chloroform	<1.00	<6.60	<1.00	<1.00			<8.75	<3.00	<3.00
Chloromethane	<3.00	<30.00	<3.00	<3.00			<30.00	<3.00	<3.00
Chloroprene		<10							
Chromium	<5.00	<5.00	<1.86	<5.00			<1.30	<3.93 *	<5.00
Chrysene		<10.5							
cis-1,2-Dichloroethene	<.190	<10.000	<.339	<.268			<10.000	<.272 *	<.387
cis-1,3-Dichloropropene	<5	<50	<5	<5			<50	<5	<5
Cobalt	11.60	9.89	18.70	12.30			13.30	11.85 *	7.96
Copper	<.536	<2.000	<5.000	<5.000			<5.000	<1.370 *	<5.000
Cyanide		<.01							
delta-BHC		<.00386							
Diallate [cis or trans]		<10.5							
Dibenz [a,h] anthracene		<10.5							
Dibenzofuran		<10.5							
Dichlorodifluoromethane		<30							
Dieldrin		<.0333							
Diethyl phthalate		<.779							
Dimethoate		<10.5							
Dimethyl phthalate		<10.5							
Dimethylaminoazobenzene		<10.5							
Di-n-butyl phthalate		<1.15							
Di-n-octyl phthalate		<21.1							
Dinoseb		<10.5							
Diphenylamine		<10.5							
Disulfoton		<10.5							
Endosulfan I	<.03270	.06140	.05380	<.03020			.06960	<.02750	<.02920
Endosulfan II		<.0333							
Endosulfan sulfate		.04510	<.03450	<.17400	<.00777	.06230	<.03400	<.00299	<.00595
Endrin		<.0103	<.0348						
Endrin aldehyde		<.0333							
Ethyl Methacrylate		<20							
Ethyl Methanesulfonate		<10.5							
Ethylbenzene	<1.000	<10.000	<.452	<1.000			<10.000	<1.000	<1.000
Famphur		<21.1							
Fluoranthene		<10.5							
Fluorene		<10.5							
gamma-BHC [Lindane]		<.0333							
gamma-Chlordane									
Heptachlor		.1620	<.0348	<.0246	<.0330	<.0340	<.0340	<.0344	<.0340
Heptachlor Epoxide		<.0333							
Hexachlorobenzene		<10.5							
Hexachlorobutadiene		<10.5							
Hexachlorocyclopentadiene		<21.1							
Hexachloroethane		<10.5							
Hexachloropropene		<10.5							
Indeno [1,2,3-cd] pyrene		<10.5							
Iodomethane	<10	<100	<10	<10			<100	<10	<10
Isobutanol		<10000							

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-20

Constituents	3/18/2019	12/2/2019	3/30/2020	11/17/2020	5/6/2021	10/7/2021	4/6/2022	8/23/2022	3/8/2023
Antimony	<1.000	<1.000	<1.000	<1.000	<2.000	<2.000	<2.000	<2.000	<2.000
Arsenic	43.30	76.30	56.40	63.70	53.00	75.85 *	83.30	<7.78	81.30
Barium	2740	2960	1850	3320	2090	2285 *	2120	2470	3800
Benzene	3.04	3.24	2.00	<3.08	2.04	2.71 *	2.90	2.91	3.14
Benzo [a] anthracene					<10.5				
Benzo [a] pyrene					<10.5				
Benzo [b] fluoranthene					<10.5				
Benzo [g,h,i] perylene					<10.5				
Benzo [k] fluoranthene					<10.5				
Benzyl alcohol					<10.5				
Beryllium	<1.00	<1.00	<1.00	<1.00	<1.00	<4.00	<1.00	<1.00	<1.00
beta-BHC					<.0348				
Bis[2-chloroethoxy]methane					<10.5				
Bis[2-chloroethyl]ether					<10.5				
Bis[2-chloroisopropyl]ether					<10.5				
Bis[2-ethylhexyl]phthalate					<10.5				
Bromochloromethane	<5	<5	<5	<50	<5	<5	<5	<5	<5
Bromodichloromethane	<1.0	<1.0	<1.0	<10.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromoform	<5	<5	<5	<50	<5	<5	<5	<5	<5
Bromomethane	<4.00	<4.00	<4.00	<40.00	<4.00	<4.00	<4.00	<4.00	<4.00
Butyl benzyl phthalate					<10.5				
Cadmium	<.500	<.100	<.100	<.100	<.100	<.100	<.100	<.100	<.059
Carbon Disulfide	<1.0	<1.0	<1.0	<10.0	<1.0	<1.0	<1.0	<1.0	<1.0
Carbon Tetrachloride	<2.0	<2.0	<2.0	<20.0	<2.0	<2.0	<2.0	<2.0	<2.0
Chlordane					<2.17				
Chlorobenzene	3.67	3.80	2.69	<10.00	2.29	3.48 *	3.27	3.29	4.44
Chlorobenzilate					<10.5				
Chlorodibromomethane	<5	<5	<5	<50	<5	<5	<5	<5	<5
Chloroethane	<.857	<1.080	<.853	<40.000	<4.000	<2.404 *	<4.000	<4.000	<1.000
Chloroform	<3.00	<3.00	<3.00	<30.00	<3.00	<3.00	<3.00	<3.00	<3.00
Chloromethane	<3.00	<1.43	<3.00	<30.00	<3.00	<3.00	<3.00	<3.00	<3.00
Chloroprene					<1				
Chromium	<1.14	<1.50	<5.00	<1.61	<5.00	<20.00	<5.00	<5.00	<1.68
Chrysene					<10.5				
cis-1,2-Dichloroethene	<.337	<.331	<.266	<10.000	<.287	<.634 *	<.247	<1.000	<.327
cis-1,3-Dichloropropene	<5	<5	<5	<50	<5	<5	<5	<5	<5
Cobalt	10.40	12.40	7.96	13.00	8.44	9.32 *	9.16	8.82	15.80
Copper	<5.000	<5.000	<5.000	<5.000	<5.000	<20.000	<5.000	<5.000	<5.000
Cyanide					<.01				
delta-BHC					<.03480				
Diallate [cis or trans]					<10.5				
Dibenz [a,h] anthracene					<10.5				
Dibenzofuran					<10.5				
Dichlorodifluoromethane					<3				
Dieldrin					<.0348				
Diethyl phthalate					<10.500				
Dimethoate					<10.5				
Dimethyl phthalate					<10.5				
Dimethylaminoazobenzene					<10.5				
Di-n-butyl phthalate					<10.50				
Di-n-octyl phthalate					<21.1				
Dinoseb					<10.5				
Diphenylamine					<10.5				
Disulfoton					<10.5				
Endosulfan I	<.03350	.03700	<.00264	<.03370	.04720	.04350	<.06670	<.06400	.11200
Endosulfan II					<.0348				
Endosulfan sulfate	<.00703	<.00968	<.00493	<.03370	<.01160	<.03370	<.06670	<.06400	
Endrin					<.0348				
Endrin aldehyde					<.0348				
Ethyl Methacrylate					<2				
Ethyl Methanesulfonate					<10.5				
Ethylbenzene	<1.000	<1.000	<1.000	<10.000	<1.000	<1.000	<1.000	<1.000	<.332
Famphur					<10.5				
Fluoranthene					<10.5				
Fluorene					<10.5				
gamma-BHC [Lindane]					<.0348				
gamma-Chlordane				<.0337					
Heptachlor	<.0337	<.0328	<.0364	<.0337	<.0348				
Heptachlor Epoxide					<.0348				
Hexachlorobenzene					<10.5				
Hexachlorobutadiene					<10.5				
Hexachlorocyclopentadiene					<10.5				
Hexachloroethane					<10.5				
Hexachloropropene					<10.5				
Indeno [1,2,3-cd] pyrene					<10.5				
Iodomethane	<10	<10	<10	<100	<10	<10	<10	<10	<10
Isobutanol					<10000				

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-20

Constituents	9/13/2023	5/29/2024	10/15/2024
Antimony	<8.000	<2.000	<2.000
Arsenic	80.00	112.50 *	77.50
Barium	3320	1640 *	2430
Benzene	2.93	2.01 *	3.00
Benzo [a] anthracene			
Benzo [a] pyrene			
Benzo [b] fluoranthene			
Benzo [g,h,i] perylene			
Benzo [k] fluoranthene			
Benzyl alcohol			
Beryllium	<1.00	<1.00	<4.00
beta-BHC			
Bis[2-chloroethoxy]methane			
Bis[2-chloroethyl]ether			
Bis[2-chloroisopropyl]ether			
Bis[2-ethylhexyl]phthalate			
Bromochloromethane	<5	<5	<1
Bromodichloromethane	<1.0	<1.0	<1.0
Bromoform	<5	<5	<1
Bromomethane	<4.00	<4.00	<1.00
Butyl benzyl phthalate			
Cadmium	<.200	<.200	<.800
Carbon Disulfide	<1.0	<1.0	<1.0
Carbon Tetrachloride	<2.0	<2.0	<1.0
Chlordane			
Chlorobenzene	4.34	2.76 *	4.70
Chlorobenzilate			
Chlorodibromomethane	<5	<5	<1
Chloroethane	<4.000	<4.000	<1.000
Chloroform	<3.00	<3.00	<1.00
Chloromethane	<3.00	<3.00	<1.00
Chloroprene			
Chromium	<1.38	<5.00	<8.00
Chrysene			
cis-1,2-Dichloroethene	<.406	<1.000	<1.000
cis-1,3-Dichloropropene	<5	<5	<1
Cobalt	13.10	8.04 *	9.90
Copper	<5.000	<5.000	<4.000
Cyanide			
delta-BHC			
Diallate [cis or trans]			
Dibenz [a,h] anthracene			
Dibenzofuran			
Dichlorodifluoromethane			
Dieldrin			
Diethyl phthalate			
Dimethoate			
Dimethyl phthalate			
Dimethylaminoazobenzene			
Di-n-butyl phthalate			
Di-n-octyl phthalate			
Dinoseb			
Diphenylamine			
Disulfoton			
Endosulfan I	<.06400	<.06400	.13000
Endosulfan II			
Endosulfan sulfate			
Endrin			
Endrin aldehyde			
Ethyl Methacrylate			
Ethyl Methanesulfonate			
Ethylbenzene	<1.000	<1.000	<1.000
Famphur			
Fluoranthene			
Fluorene			
gamma-BHC [Lindane]			
gamma-Chlordane			<.0500
Heptachlor			
Heptachlor Epoxide			
Hexachlorobenzene			
Hexachlorobutadiene			
Hexachlorocyclopentadiene			
Hexachloroethane			
Hexachloropropene			
Indeno [1,2,3-cd] pyrene			
Iodomethane	<10	<10	<1
Isobutanol			

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-20

Constituents	Units	9/11/2008	12/10/2008	3/3/2009	8/21/2009	10/21/2009	3/11/2010	8/31/2010	2/16/2011
Isodrin	ug/L				<10.0			<10.0	
Isophorone	ug/L				<10.0			<10.0	
Isosafrole	ug/L				<10.0			<10.0	
Kepone	ug/L				<10.0			<10.0	
Lead	ug/L	5.380	<4.000	10.600	27.500	<4.000	7.240	<4.000	12.600
MP-Xylene	ug/L								
Mercury	ug/L				<.200			<.200	
Methacrylonitrile	ug/L				<5			<5	
Methapyrilene	ug/L				<10.0			<10.0	
Methoxychlor	ug/L				<.0320			<.0320	
Methyl Methacrylate	ug/L				<10			<10	
Methyl Methanesulfonate	ug/L				<10.0			<10.0	
Methylene Bromide	ug/L	<1.0	<5.0	<5.0	<5.0	<2.0	<50.0	<5.0	<5.0
Methylene Chloride	ug/L	<5.000	<25.000	<25.000	<25.000	<5.000	<5.000	<25.000	<25.000
Naphthalene	ug/L				<25			<25	
Nickel	ug/L	<50.0	112.0	140.0	63.2	127.0	98.1	111.0	128.0
Nitrobenzene	ug/L				<10.0			<10.0	
N-Nitrosodiethylamine	ug/L				<10.0			<10.0	
N-Nitrosodimethylamine	ug/L				<10.0			<10.0	
N-Nitrosodi-n-butylamine	ug/L				<10.0			<10.0	
N-Nitrosodi-n-propylamine	ug/L				<10.0			<10.0	
N-Nitrosodiphenylamine	ug/L				<10.0			<10.0	
N-Nitrosomethylethylamine	ug/L				<10.0			<10.0	
N-Nitrosopiperidine	ug/L				<10.0			<10.0	
N-Nitrosopyrrolidine	ug/L				<10.0			<10.0	
O,O,O-Triethyl Phosphorothioate	ug/L				<10.0			<10.0	
o-Toluidine	ug/L				<10.0			<10.0	
o-Xylene	ug/L								
Parathion-Ethyl	ug/L				<10.0			<10.0	
Parathion-Methyl	ug/L				<10.0			<10.0	
PCB-1016	ug/L				<.80			<.80	
PCB-1221	ug/L				<.80			<.80	
PCB-1232	ug/L				<.80			<.80	
PCB-1242	ug/L				<.80			<.80	
PCB-1248	ug/L				<.80			<.80	
PCB-1254	ug/L				<.80			<.80	
PCB-1260	ug/L				<.80			<.80	
Pentachlorobenzene	ug/L				<10.0			<10.0	
Pentachloronitrobenzene	ug/L				<10.0			<10.0	
Pentachlorophenol [2C]	ug/L				<10.00			<10.00	
Phenacetin	ug/L				<10.0			<10.0	
Phenanthrene	ug/L				<10.0			<10.0	
Phenol	ug/L				<10.0			<10.0	
Phorate	ug/L				<10.0			<10.0	
Pronamide	ug/L				<10.0			<10.0	
Propionitrile	ug/L				<50			<50	
Pyrene	ug/L				<10.0			<10.0	
Safrole	ug/L				<10.0			<10.0	
Selenium	ug/L	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Silver	ug/L	<20.000	<20.000	<20.000	<20.000	<20.000	<20.000	<20.000	<20.000
Styrene	ug/L	<1	<5	<5	<5	<2	<5	<5	<5
Sulfate	mg/L								
Sulfide	mg/L				<1.000			2.000	1.100
Tetrachloroethene	ug/L	<1.0	<5.0	<5.0	<5.0	<1.0	<5.0	<5.0	<5.0
Thallium	ug/L	<2	<2	<4	<2	<2	<2	<2	<2
Thionazin	ug/L				<10.0			<10.0	
Tin	ug/L				<100			<100	
Toluene	ug/L	<1.000	<5.000	<5.000	<5.000	<1.000	<1.000	<5.000	<5.000
Total Suspended Solids	mg/L								
Toxaphene	ug/L				<2.00			<2.00	
trans-1,2-Dichloroethene	ug/L	<1.0	<5.0	<5.0	<5.0	<1.0	<1.0	<5.0	<5.0
trans-1,3-Dichloropropene	ug/L	<5	<25	<25	<25	<5	<5	<25	<25
trans-1,4-Dichloro-2-Butene	ug/L	<10	<50	<50	<50	<10	<50	<50	<50
Trichloroethene	ug/L	<1.000	<5.000	<5.000	<5.000	<1.000	<1.000	<5.000	<5.000
Trichlorofluoromethane	ug/L	<4	<20	<20	<20	<4	<4	<20	<20
Vanadium	ug/L	<50.00	<50.00	<50.00	<50.00	<50.00	<50.00	<50.00	<50.00
Vinyl Acetate	ug/L	<2.5	<10.0	<10.0	<10.0	<2.0	<2.0	<10.0	<20.0
Vinyl Chloride	ug/L	<1	<5	<5	<5	<1	<1	<5	<5
Xylenes, total	ug/L	<3.000	<15.000	<15.000	<15.000	<6.000	<7.500	<15.000	<15.000
Zinc	ug/L	52.90	<20.00	198.00	345.00	165.00	157.00	43.50	332.00

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-20

Constituents	10/27/2011	4/26/2012	10/9/2012	2/20/2013	5/15/2013	10/3/2013	4/22/2014	10/14/2014	5/12/2015
Isodrin	<10.0								
Isophorone	<10.0								
Isosafrole	<10.0								
Kepone	<10.0								
Lead	11.100	6.700	<4.000	5.320		4.900	<2.250	<3.270	3.420
MP-Xylene			<10	<2					
Mercury	<.200								
Methacrylonitrile	<5								
Methapyrilene	<10.0								
Methoxychlor	<.0320								
Methyl Methacrylate	<10								
Methyl Methanesulfonate	<10.0								
Methylene Bromide	<5.0	<5.0	<5.0	<1.8		<1.0	<10.0	<1.0	<1.0
Methylene Chloride	<25.000	<25.000	<25.000	<5.000		<5.000	<50.000	<5.000	<5.000
Naphthalene	<25								
Nickel	137.0	147.0	111.0	158.0		76.8	54.1	60.4	20.1
Nitrobenzene	<10.0								
N-Nitrosodiethylamine	<10.0								
N-Nitrosodimethylamine	<10.0								
N-Nitrosodi-n-butylamine	<10.0								
N-Nitrosodi-n-propylamine	<10.0								
N-Nitrosodiphenylamine	<10.0								
N-Nitrosomethylethylamine	<10.0								
N-Nitrosopiperidine	<10.0								
N-Nitrosopyrrolidine	<10.0								
O,O,O-Triethyl Phosphorothioate	<10.0								
o-Toluidine	<10.0								
o-Xylene			<5.0	<1.3					
Parathion-Ethyl	<10.0								
Parathion-Methyl	<10.0								
PCB-1016	<.80								
PCB-1221	<.80								
PCB-1232	<.80								
PCB-1242	<.80								
PCB-1248	<.80								
PCB-1254	<.80								
PCB-1260	<.80								
Pentachlorobenzene	<10.0								
Pentachloronitrobenzene	<10.0								
Pentachlorophenol [2C]	<10.00								
Phenacetin	<10.0								
Phenanthrene	<10.0								
Phenol	<10.0								
Phorate	<10.0								
Pronamide	<10.0								
Propionitrile	<50								
Pyrene	<10.0								
Safrole	<10.0								
Selenium	<5.00	27.40	<5.00	<5.00		<5.00	<5.00	<5.00	<5.00
Silver	<20.000	<20.000	<20.000	<20.000		<20.000	<20.000	<20.000	<.081
Styrene	<5	<5	<5	<1		<1	<10	<1	<1
Sulfate									
Sulfide	3.700	<1.000	1.800	4.940	<1.000	<1.000	<1.000	<1.000	<1.000
Tetrachloroethene	<5.0	<5.0	<5.0	<1.8		<1.0	<10.0	<1.0	<1.0
Thallium	<3	<2	<2	<2		<2	<2	<2	<1
Thionazin	<10.0								
Tin	117	<100	<100	<100		427	<100	127	<5
Toluene	<5.000	<5.000	<5.000	<1.500		<1.000	<10.000	<1.000	<1.000
Total Suspended Solids							118.0	175.0	288.0
Toxaphene	<2.00								
trans-1,2-Dichloroethene	<5.0	<5.0	<5.0	<2.1		<1.0	<10.0	<1.0	<1.0
trans-1,3-Dichloropropene	<25	<25	<25	<5		<5	<50	<5	<5
trans-1,4-Dichloro-2-Butene	<50	<50	<50	<10		<10	<100	<10	<10
Trichloroethene	<5.000	<5.000	<5.000	<1.900		<1.000	<10.000	<.317	<1.000
Trichlorofluoromethane	<20	<20	<20	<4		<4	<40	<4	<4
Vanadium	<50.00	<50.00	<50.00	<50.00		<5.22	<3.92	<5.05	<3.10
Vinyl Acetate	<10.0	<25.0	<10.0	<7.4		<2.0	<20.0	<10.0	<10.0
Vinyl Chloride	<5	<5	<5	<1		<1	<10	<1	<1
Xylenes, total	<15.000	<15.000	<15.000	<3.000		<.376	<30.000	<3.000	<3.000
Zinc	124.00	119.00	71.20	102.00		237.00	<40.00	36.90	37.60

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-20

Constituents	7/29/2015	2/15/2016	10/31/2016	3/27/2017	5/31/2017	7/12/2017	11/13/2017	6/6/2018	11/27/2018
Isodrin		<10.5							
Isophorone		<10.5							
Isosafrole		<10.5							
Kepone		<10.5							
Lead	<.500	<.177	<.220	<.500			.819	.411 *	<.469
MP-Xylene									
Mercury		<.118							
Methacrylonitrile		<100							
Methapyrilene		<10.5							
Methoxychlor		<.0333							
Methyl Methacrylate		<20							
Methyl Methanesulfonate		<10.5							
Methylene Bromide	<1.0	<10.0	<1.0	<1.0			<10.0	<1.0	<1.0
Methylene Chloride	<.180	<50.000	<.471	<5.000			<50.000	<5.000	<5.000
Naphthalene		<50							
Nickel	28.8	45.6	83.8	30.9			56.1	34.7 *	16.2
Nitrobenzene		<10.5							
N-Nitrosodiethylamine		<10.5							
N-Nitrosodimethylamine		<10.5							
N-Nitrosodi-n-butylamine		<10.5							
N-Nitrosodi-n-propylamine		<10.5							
N-Nitrosodiphenylamine		<10.5							
N-Nitrosomethylethylamine		<10.5							
N-Nitrosopiperidine		<10.5							
N-Nitrosopyrrolidine		<10.5							
O,O,O-Triethyl Phosphorothioate		<10.5							
o-Toluidine		<10.5							
o-Xylene									
Parathion-Ethyl		<10.5							
Parathion-Methyl		<10.5							
PCB-1016		<.87							
PCB-1221		<.87							
PCB-1232		<.87							
PCB-1242		<.87							
PCB-1248		<.87							
PCB-1254		<.87							
PCB-1260		<.87							
Pentachlorobenzene		<10.5							
Pentachloronitrobenzene		<10.5							
Pentachlorophenol [2C]		<3.17							
Phenacetin		<10.5							
Phenanthrene		<10.5							
Phenol		<10.5							
Phorate		<10.5							
Pronamide		<10.5							
Propionitrile		<100							
Pyrene		<10.5							
Safrole		<10.5							
Selenium	<5.00	<5.00	<5.00	<5.00			<5.00	<2.50	<5.00
Silver	<1.000	<1.000	<1.000	<1.000			<1.000	<.500	<1.000
Styrene	<1	<10	<1	<1			<10	<1	<1
Sulfate									
Sulfide	<1.000	3.260	<1.000	<1.000			4.270	<.672	<1.000
Tetrachloroethene	<1.0	<10.0	<1.0	<1.0			<10.0	<1.0	<1.0
Thallium	<1	<1	<1	<1			<1	<2	<1
Thionazin		<10.5							
Tin	<5	<5	<5	<5			<5	<5	<5
Toluene	<.202	<10.000	1.520	<.526			<10.000	1.520 *	<1.000
Total Suspended Solids	118.0	118.0	172.0	80.1	64.0	156.0	133.0	80.7 *	92.0
Toxaphene		<2.08							
trans-1,2-Dichloroethene	<1.0	<10.0	<1.0	<1.0			<10.0	<1.0	<1.0
trans-1,3-Dichloropropene	<5	<50	<5	<5			<50	<5	<5
trans-1,4-Dichloro-2-Butene	<10	<100	<10	<10			<100	<10	<10
Trichloroethene	<1.000	<10.000	<1.000	<1.000			<10.000	<1.000	<1.000
Trichlorofluoromethane	<4	<40	<4	<4			<40	<4	<4
Vanadium	<1.96	<2.67	<3.96	<1.07			<3.07	4.39 *	<1.23
Vinyl Acetate	<10.0	<100.0	<10.0	<10.0			<100.0	<10.0	<10.0
Vinyl Chloride	<1	<10	<1	<1			<10	<1	<1
Xylenes, total	<3.000	<30.000	<2.090	<.805			<2.160	<1.125 *	<.595
Zinc	<10.00	<10.00	<10.00	<17.70			<20.00	<14.61 *	<20.00

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-20

Constituents	3/18/2019	12/2/2019	3/30/2020	11/17/2020	5/6/2021	10/7/2021	4/6/2022	8/23/2022	3/8/2023
Isodrin					<10.5				
Isophorone					<10.5				
Isosafrole					<10.5				
Kepone					<10.5				
Lead	<.500	<.500	<.500	<.500	<.500	<.379 *	<.500	<.500	<.500
MP-Xylene									
Mercury				<.200	<.200				
Methacrylonitrile					<10				
Methapyrilene					<10.5				
Methoxychlor					<.0348				
Methyl Methacrylate					<2				
Methyl Methanesulfonate					<10.5				
Methylene Bromide	<1.0	<1.0	<1.0	<10.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methylene Chloride	<5.000	<5.000	<5.000	<50.000	<5.000	<5.000	<5.000	<5.000	<5.000
Naphthalene					<5				
Nickel	46.0	58.2	12.0	71.6	20.5	42.2 *	31.2	65.0	78.7
Nitrobenzene					<10.5				
N-Nitrosodiethylamine					<10.5				
N-Nitrosodimethylamine					<10.5				
N-Nitrosodi-n-butylamine					<10.5				
N-Nitrosodi-n-propylamine					<10.5				
N-Nitrosodiphenylamine					<10.5				
N-Nitrosomethylethylamine					<10.5				
N-Nitrosopiperidine					<10.5				
N-Nitrosopyrrolidine					<10.5				
O,O,O-Triethyl Phosphorothioate					<10.5				
o-Toluidine					<10.5				
o-Xylene									
Parathion-Ethyl					<10.5				
Parathion-Methyl					<10.5				
PCB-1016					<.87				
PCB-1221					<.87				
PCB-1232					<.87				
PCB-1242					<.87				
PCB-1248					<.87				
PCB-1254					<.87				
PCB-1260					<.87				
Pentachlorobenzene					<10.5				
Pentachloronitrobenzene					<10.5				
Pentachlorophenol [2C]					<10.50				
Phenacetin					<10.5				
Phenanthrene					<10.5				
Phenol					<10.5				
Phorate					<10.5				
Pronamide					<10.5				
Propionitrile					<10				
Pyrene					<10.5				
Safrole					<10.5				
Selenium	<5.00	<5.00	<5.00	<5.00	<1.39	<5.00	<5.00	<5.00	<1.08
Silver	<1.000	<1.000	<1.000	<1.000	<1.000	<4.000	<1.000	<1.000	<1.000
Styrene	<1	<1	<1	<10	<1	<1	<1	<1	<1
Sulfate									
Sulfide	<1.000	<1.000	<1.000	<10.000	12.700	<10.000	<1.000	<1.000	<1.000
Tetrachloroethene	<1.0	<1.0	<1.0	<10.0	<1.0	<1.0	<1.0	<1.0	<1.0
Thallium	<1	<1	<1	<1	<1	<4	<1	<1	<1
Thionazin					<10.5				
Tin	<5	<5			<5				
Toluene	1.110	1.810	<1.000	<10.000	<1.000	<.650 *	<1.000	<.752	<.701
Total Suspended Solids	102.0	114.0	130.0	112.0	109.0	102.2 *	123.0	100.0	114.0
Toxaphene					<2.17				
trans-1,2-Dichloroethene	<1.0	<1.0	<1.0	<10.0	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,3-Dichloropropene	<5	<5	<5	<50	<5	<5	<5	<5	<5
trans-1,4-Dichloro-2-Butene	<10	<10	<10	<100	<10	<10	<10	<10	<10
Trichloroethene	<1.000	<1.000	<1.000	<10.000	<1.000	<1.000	<1.000	<1.000	<1.000
Trichlorofluoromethane	<4	<4	<4	<40	<4	<4	<4	<4	<4
Vanadium	<1.93	<3.57	<1.09	<4.60	<1.64	<20.00	<2.59	<5.00	<3.79
Vinyl Acetate	<10.0	<10.0	<10.0	<100.0	<10.0	<10.0	<10.0	<10.0	<10.0
Vinyl Chloride	<1	<1	<1	<10	<1	<1	<1	<1	<1
Xylenes, total	<1.200	<1.230	<3.000	<30.000	<1.350	<1.739 *	<3.000	<3.000	<.551
Zinc	<20.00	<20.00	<20.00	<20.00	<20.00	<20.00	<20.00	<20.00	<20.00

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-20

Constituents	9/13/2023	5/29/2024	10/15/2024
Isodrin			
Isophorone			
Isosafrole			
Kepone			
Lead	<.500	<.500	<4.000
MP-Xylene			
Mercury			
Methacrylonitrile			
Methapyrilene			
Methoxychlor			
Methyl Methacrylate			
Methyl Methanesulfonate			
Methylene Bromide	<1.0	<1.0	<1.0
Methylene Chloride	<5.000	<5.000	<5.000
Naphthalene			
Nickel	48.7	14.4 *	50.8
Nitrobenzene			
N-Nitrosodiethylamine			
N-Nitrosodimethylamine			
N-Nitrosodi-n-butylamine			
N-Nitrosodi-n-propylamine			
N-Nitrosodiphenylamine			
N-Nitrosomethylethylamine			
N-Nitrosopiperidine			
N-Nitrosopyrrolidine			
O,O,O-Triethyl Phosphorothioate			
o-Toluidine			
o-Xylene			
Parathion-Ethyl			
Parathion-Methyl			
PCB-1016			
PCB-1221			
PCB-1232			
PCB-1242			
PCB-1248			
PCB-1254			
PCB-1260			
Pentachlorobenzene			
Pentachloronitrobenzene			
Pentachlorophenol [2C]			
Phenacetin			
Phenanthrene			
Phenol			
Phorate			
Pronamide			
Propionitrile			
Pyrene			
Safrole			
Selenium	<5.00	<5.00	<4.00
Silver	<1.000	<1.000	<4.000
Styrene	<1	<1	<1
Sulfate			<1
Sulfide	<1.000	<1.000	
Tetrachloroethene	<1.0	<1.0	<1.0
Thallium	<1	<1	<2
Thionazin			
Tin			
Toluene	<.790	<1.000	<1.000
Total Suspended Solids	151.0	33.8 *	
Toxaphene			
trans-1,2-Dichloroethene	<1.0	<1.0	<1.0
trans-1,3-Dichloropropene	<5	<5	<1
trans-1,4-Dichloro-2-Butene	<10	<10	<5
Trichloroethene	<1.000	<1.000	<1.000
Trichlorofluoromethane	<4	<4	<1
Vanadium	<3.68	<1.25 *	<20.00
Vinyl Acetate	<10.0	<10.0	<5.0
Vinyl Chloride	<1	<1	<1
Xylenes, total	<3.000	<3.000	<2.000
Zinc	<20.00	<20.00	<20.00

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-21

Constituents	Units	12/23/2008	3/3/2009	8/21/2009	12/15/2009	3/11/2010	8/31/2010	2/16/2011	7/7/2011
1,1,1,2-Tetrachloroethane	ug/L	<1	<1	<1	<1	<5	<1	<1	<1
1,1,1-Trichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethene	ug/L	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloropropene	ug/L								<1
1,2,3-Trichloropropane	ug/L	<1.0	<1.0	<1.0	<1.0	<2.5	<1.0	<1.0	<2.0
1,2,4,5-Tetrachlorobenzene	ug/L								<10.0
1,2,4-Trichlorobenzene	ug/L								<5
1,2-Dibromo-3-Chloropropane	ug/L	<.860	<.860	<.498	<.498	<.498	<.498	<.120	<10.000
1,2-Dibromoethane	ug/L	<.250	<.250	<.255	<.255	<.255	<.255	<.130	<10.000
1,2-Dichlorobenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloropropane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trinitrobenzene	ug/L								<10.0
1,3-Dichlorobenzene	ug/L								<1
1,3-Dichloropropane	ug/L								<1
1,3-Dinitrobenzene	ug/L								<10.0
1,4-Dichlorobenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1
1,4-Naphthoquinone	ug/L								<10.0
1,4-Phenylenediamine	ug/L								<10.0
1-Naphthylamine	ug/L								<10.0
2,2-Dichloropropane	ug/L								<4
2,3,4,6-Tetrachlorophenol	ug/L								<10.0
2,4,5-T [2C]	ug/L								<.24
2,4,5-TP [Silvex] [2C]	ug/L								<.24
2,4,5-Trichlorophenol	ug/L								<10.0
2,4,6-Trichlorophenol	ug/L								<10.0
2,4-D [2C]	ug/L								<.45
2,4-Dichlorophenol	ug/L								<10.0
2,4-Dimethylphenol	ug/L								<10.0
2,4-Dinitrophenol	ug/L								<20.0
2,4-Dinitrotoluene	ug/L								<10.0
2,6-Dichlorophenol	ug/L								<10.0
2,6-Dinitrotoluene	ug/L								<10.0
2-Acetylaminofluorene	ug/L								<10.0
2-Butanone	ug/L	<10	<10	<10	<10	<10	<10	<10	<10
2-Chloronaphthalene	ug/L								<10.0
2-Chlorophenol	ug/L								<10.0
2-Hexanone	ug/L	<10	<10	<10	<10	<10	<10	<10	<10
2-Methylnaphthalene	ug/L								<10.0
2-Methylphenol	ug/L								<10.0
2-Naphthylamine	ug/L								<10.0
2-Nitroaniline	ug/L								<10.0
2-Nitrophenol	ug/L								<10.0
3,3-Dichlorobenzidine	ug/L								<10.0
3,3-Dimethylbenzidine	ug/L								<10.0
3/4-Methylphenol	ug/L								<10.0
3-Chloropropene	ug/L								<2
3-Methylcholanthrene	ug/L								<10.0
3-Nitroaniline	ug/L								<10.0
4,4`-DDD	ug/L								<.03200
4,4`-DDE	ug/L								<.032
4,4`-DDT	ug/L								<.03200
4,6-Dinitro-2-methylphenol	ug/L								<10.0
4-Aminobiphenyl	ug/L								<10.0
4-Bromophenyl phenyl ether	ug/L								<10.0
4-Chloro-3-methylphenol	ug/L								<10.0
4-Chloroaniline	ug/L								<10.0
4-Chlorophenyl phenyl ether	ug/L								<10.0
4-Methyl-2-Pentanone	ug/L	<10	<10	<10	<10	<10	<10	<10	<10
4-Nitroaniline	ug/L								<10.0
4-Nitrophenol	ug/L								<10.0
5-Nitro-o-toluidine	ug/L								<10.0
7,12-Dimethylbenz [a] anthracene	ug/L								<10.0
Acenaphthene	ug/L								<10.0
Acenaphthylene	ug/L								<10.0
Acetone	ug/L	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00
Acetonitrile	ug/L								<10000
Acetophenone	ug/L								<10.0
Acrolein	ug/L								<10
Acrylonitrile	ug/L	<10	<10	<10	<10	<10	<10	<10	<10
Aldrin	ug/L								<.032
alpha-BHC	ug/L								<.032
alpha-Chlordane	ug/L								
Anthracene	ug/L								<10.0

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-21

Constituents	10/27/2011	1/23/2012	4/26/2012	10/9/2012	2/20/2013	10/3/2013	12/18/2013	4/22/2014	5/12/2015
1,1,1,2-Tetrachloroethane	<1		<1	<1	<1	<1		<1	<1
1,1,1-Trichloroethane	<1		<1	<1	<1	<1		<1	<1
1,1,2,2-Tetrachloroethane	<1		<1	<1	<1	<1		<1	<1
1,1,2-Trichloroethane	<1		<1	<2	<1	<1		<1	<1
1,1-Dichloroethane	<1		<1	<1	<1	<1		<1	<1
1,1-Dichloroethene	<2		<1	<2	<2	<2		<2	<2
1,1-Dichloropropene				<1					
1,2,3-Trichloropropane	<1.0		<1.0	<1.0	<1.0	<1.0		<1.0	<1.0
1,2,4,5-Tetrachlorobenzene				<33.0					
1,2,4-Trichlorobenzene				<5					
1,2-Dibromo-3-Chloropropane	<.120		<.200	<.120	<.120	<.120		<.120	<.500
1,2-Dibromoethane	<.130		<.050	<.130	<.130	<.130		<.130	<.130
1,2-Dichlorobenzene	<1		<1	<1	<1	<1		<1	<1
1,2-Dichloroethane	<1		<1	<1	<1	<1		<1	<1
1,2-Dichloropropane	<1		<1	<1	<1	<1		<1	<1
1,3,5-Trinitrobenzene				<33.0					
1,3-Dichlorobenzene				<1					
1,3-Dichloropropane				<1					
1,3-Dinitrobenzene				<33.0					
1,4-Dichlorobenzene	<1		<1	<1	<1	<1		<1	<1
1,4-Naphthoquinone				<33.0					
1,4-Phenylenediamine				<33.0					
1-Naphthylamine				<33.0					
2,2-Dichloropropane				<4					
2,3,4,6-Tetrachlorophenol				<33.0					
2,4,5-T [2C]				<.48					
2,4,5-TP [Silvex] [2C]				<.32					
2,4,5-Trichlorophenol				<33.0					
2,4,6-Trichlorophenol				<33.0					
2,4-D [2C]				<.52					
2,4-Dichlorophenol				<33.0					
2,4-Dimethylphenol				<33.0					
2,4-Dinitrophenol				<65.9					
2,4-Dinitrotoluene				<33.0					
2,6-Dichlorophenol				<33.0					
2,6-Dinitrotoluene				<33.0					
2-Acetylaminofluorene				<33.0					
2-Butanone	<10		<10	<10	<10	<10		<10	<10
2-Chloronaphthalene				<33.0					
2-Chlorophenol				<33.0					
2-Hexanone	<10		<10	<10	<10	<10		<10	<10
2-Methylnaphthalene				<33.0					
2-Methylphenol				<33.0					
2-Naphthylamine				<33.0					
2-Nitroaniline				<33.0					
2-Nitrophenol				<33.0					
3,3-Dichlorobenzidine				<33.0					
3,3-Dimethylbenzidine				<33.0					
3/4-Methylphenol				<33.0					
3-Chloropropene				<2					
3-Methylcholanthrene				<33.0					
3-Nitroaniline				<33.0					
4,4`-DDD				<.06400					
4,4`-DDE				<.064					
4,4`-DDT				<.06400					
4,6-Dinitro-2-methylphenol				<33.0					
4-Aminobiphenyl				<33.0					
4-Bromophenyl phenyl ether				<33.0					
4-Chloro-3-methylphenol				<33.0					
4-Chloroaniline				<33.0					
4-Chlorophenyl phenyl ether				<33.0					
4-Methyl-2-Pentanone	<10		<10	<10	<10	<10		<10	<10
4-Nitroaniline				<33.0					
4-Nitrophenol				<33.0					
5-Nitro-o-toluidine				<33.0					
7,12-Dimethylbenz [a] anthracene				<33.0					
Acenaphthene				<33.0					
Acenaphthylene				<33.0					
Acetone	10.20		<10.00	<10.00	<10.00	<10.00		<10.00	<10.00
Acetonitrile				<10000					
Acetophenone				<33.0					
Acrolein				<10					
Acrylonitrile	<10		<5	<10	<10	<10		<10	<10
Aldrin				<.064					
alpha-BHC				<.064					
alpha-Chlordane				<.064					
Anthracene				<33.0					

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-21

Constituents	7/29/2015	2/15/2016	10/31/2016	3/27/2017	11/13/2017	6/6/2018	11/27/2018	3/18/2019	12/2/2019
1,1,1,2-Tetrachloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethene	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloropropene				<1					
1,2,3-Trichloropropane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,4,5-Tetrachlorobenzene				<10.0					
1,2,4-Trichlorobenzene				<5					
1,2-Dibromo-3-Chloropropane	<.500	<.500	<.500	<.500	<.500	<.500	<1.200	<1.200	<1.200
1,2-Dibromoethane	<.130	<.130	<.130	<.130	<.130	<.130	<.340	<.340	<.340
1,2-Dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trinitrobenzene				<10.0					
1,3-Dichlorobenzene				<1					
1,3-Dichloropropane				<1					
1,3-Dinitrobenzene				<10.0					
1,4-Dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-Naphthoquinone				<10.0					
1,4-Phenylenediamine				<10.0					
1-Naphthylamine				<10.0					
2,2-Dichloropropane				<4					
2,3,4,6-Tetrachlorophenol				<10.0					
2,4,5-T [2C]				<1.29					
2,4,5-TP [Silvex] [2C]				<1.29					
2,4,5-Trichlorophenol				<10.0					
2,4,6-Trichlorophenol				<10.0					
2,4-D [2C]				<1.29					
2,4-Dichlorophenol				<10.0					
2,4-Dimethylphenol				<10.0					
2,4-Dinitrophenol				<20.0					
2,4-Dinitrotoluene				<10.0					
2,6-Dichlorophenol				<10.0					
2,6-Dinitrotoluene				<10.0					
2-Acetylaminofluorene				<10.0					
2-Butanone	<10	<10	<10	<10	<10	<10	<10	<10	<10
2-Chloronaphthalene				<10.0					
2-Chlorophenol				<10.0					
2-Hexanone	<10	<10	<10	<10	<10	<10	<10	<10	<10
2-Methylnaphthalene				<10.0					
2-Methylphenol				<10.0					
2-Naphthylamine				<10.0					
2-Nitroaniline				<10.0					
2-Nitrophenol				<10.0					
3,3-Dichlorobenzidine				<50.0					
3,3-Dimethylbenzidine				<10.0					
3/4-Methylphenol				<10.0					
3-Chloropropene				<2					
3-Methylcholanthrene				<10.0					
3-Nitroaniline				<10.0					
4,4`-DDD				<.00262					
4,4`-DDE				<.032					
4,4`-DDT				<.00523					
4,6-Dinitro-2-methylphenol				<10.0					
4-Aminobiphenyl				<10.0					
4-Bromophenyl phenyl ether				<10.0					
4-Chloro-3-methylphenol				<10.0					
4-Chloroaniline				<10.0					
4-Chlorophenyl phenyl ether				<10.0					
4-Methyl-2-Pentanone	<10	<10	<10	<10	<10	<10	<10	<10	<10
4-Nitroaniline				<10.0					
4-Nitrophenol				<10.0					
5-Nitro-o-toluidine				<10.0					
7,12-Dimethylbenz [a] anthracene				<10.0					
Acenaphthene				<10.0					
Acenaphthylene				<10.0					
Acetone	<10.00	<10.00	<10.00	<10.00	<4.17	<10.00	<10.00	<3.39	12.20
Acetonitrile				<10000					
Acetophenone				<10.0					
Acrolein				<10					
Acrylonitrile	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aldrin				<.032					
alpha-BHC				<.032					
alpha-Chlordane									
Anthracene				<10.0					

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-21

Constituents	3/30/2020	11/17/2020	5/6/2021	10/7/2021	4/6/2022	8/23/2022	3/8/2023	9/13/2023	5/29/2024
1,1,1,2-Tetrachloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethene	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloropropene					<1				
1,2,3-Trichloropropane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,4,5-Tetrachlorobenzene					<10.9				
1,2,4-Trichlorobenzene					<5				
1,2-Dibromo-3-Chloropropane	<5.000	<5.000	<5.000	<5.000	<5.000	<5.000	<5.000	<5.000	<5.000
1,2-Dibromoethane	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000
1,2-Dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trinitrobenzene					<10.9				
1,3-Dichlorobenzene					<1				
1,3-Dichloropropane					<1				
1,3-Dinitrobenzene					<10.9				
1,4-Dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-Naphthoquinone					<10.9				
1,4-Phenylenediamine					<10.9				
1-Naphthylamine					<10.9				
2,2-Dichloropropane					<4				
2,3,4,6-Tetrachlorophenol					<10.9				
2,4,5-T [2C]					<1.04				
2,4,5-TP [Silvex] [2C]					<1.04				
2,4,5-Trichlorophenol					<10.9				
2,4,6-Trichlorophenol					<10.9				
2,4-D [2C]					<1.04				
2,4-Dichlorophenol					<10.9				
2,4-Dimethylphenol					<10.9				
2,4-Dinitrophenol					<21.7				
2,4-Dinitrotoluene					<10.9				
2,6-Dichlorophenol					<10.9				
2,6-Dinitrotoluene					<10.9				
2-Acetylaminofluorene					<10.9				
2-Butanone	<10	<10	<10	<10	<10	<10	<10	<10	<10
2-Chloronaphthalene					<10.9				
2-Chlorophenol					<10.9				
2-Hexanone	<10	<10	<10	<10	<10	<10	<10	<10	<10
2-Methylnaphthalene					<10.9				
2-Methylphenol					<10.9				
2-Naphthylamine					<10.9				
2-Nitroaniline					<10.9				
2-Nitrophenol					<10.9				
3,3-Dichlorobenzidine					<10.9				
3,3-Dimethylbenzidine					<10.9				
3/4-Methylphenol					<10.9				
3-Chloropropene					<2				
3-Methylcholanthrene					<10.9				
3-Nitroaniline					<10.9				
4,4`-DDD					<.06400				
4,4`-DDE					<.064				
4,4`-DDT					<.06400				
4,6-Dinitro-2-methylphenol					<10.9				
4-Aminobiphenyl					<10.9				
4-Bromophenyl phenyl ether					<10.9				
4-Chloro-3-methylphenol					<10.9				
4-Chloroaniline					<10.9				
4-Chlorophenyl phenyl ether					<10.9				
4-Methyl-2-Pentanone	<10	<10	<10	<10	<10	<10	<10	<10	<10
4-Nitroaniline					<10.9				
4-Nitrophenol					<10.9				
5-Nitro-o-toluidine					<10.9				
7,12-Dimethylbenz [a] anthracene					<10.9				
Acenaphthene					<10.9				
Acenaphthylene					<10.9				
Acetone	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00
Acetonitrile					<10000				
Acetophenone					<10.9				
Acrolein					<10				
Acrylonitrile	<5	<5	<5	<5	<5	<5	<5	<5	<5
Aldrin					<.064				
alpha-BHC					<.064				
alpha-Chlordane									
Anthracene					<10.9				

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-21

Constituents	10/15/2024
1,1,1,2-Tetrachloroethane	<1
1,1,1-Trichloroethane	<1
1,1,2,2-Tetrachloroethane	<1
1,1,2-Trichloroethane	<1
1,1-Dichloroethane	<1
1,1-Dichloroethene	<1
1,1-Dichloropropene	
1,2,3-Trichloropropane	<1.0
1,2,4,5-Tetrachlorobenzene	
1,2,4-Trichlorobenzene	
1,2-Dibromo-3-Chloropropane	<5.000
1,2-Dibromoethane	<1.000
1,2-Dichlorobenzene	<1
1,2-Dichloroethane	<1
1,2-Dichloropropane	<1
1,3,5-Trinitrobenzene	
1,3-Dichlorobenzene	
1,3-Dichloropropane	
1,3-Dinitrobenzene	
1,4-Dichlorobenzene	<1
1,4-Naphthoquinone	
1,4-Phenylenediamine	
1-Naphthylamine	
2,2-Dichloropropane	
2,3,4,6-Tetrachlorophenol	
2,4,5-T [2C]	
2,4,5-TP [Silvex] [2C]	
2,4,5-Trichlorophenol	
2,4,6-Trichlorophenol	
2,4-D [2C]	
2,4-Dichlorophenol	
2,4-Dimethylphenol	
2,4-Dinitrophenol	
2,4-Dinitrotoluene	
2,6-Dichlorophenol	
2,6-Dinitrotoluene	
2-Acetylaminofluorene	
2-Butanone	<10
2-Chloronaphthalene	
2-Chlorophenol	
2-Hexanone	<5
2-Methylnaphthalene	
2-Methylphenol	
2-Naphthylamine	
2-Nitroaniline	
2-Nitrophenol	
3,3-Dichlorobenzidine	
3,3-Dimethylbenzidine	
3/4-Methylphenol	
3-Chloropropene	
3-Methylcholanthrene	
3-Nitroaniline	
4,4`-DDD	
4,4`-DDE	
4,4`-DDT	
4,6-Dinitro-2-methylphenol	
4-Aminobiphenyl	
4-Bromophenyl phenyl ether	
4-Chloro-3-methylphenol	
4-Chloroaniline	
4-Chlorophenyl phenyl ether	
4-Methyl-2-Pentanone	<5
4-Nitroaniline	
4-Nitrophenol	
5-Nitro-o-toluidine	
7,12-Dimethylbenz [a] anthracene	
Acenaphthene	
Acenaphthylene	
Acetone	<10.00
Acetonitrile	
Acetophenone	
Acrolein	
Acrylonitrile	<5
Aldrin	
alpha-BHC	
alpha-Chlordane	
Anthracene	

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-21

Constituents	Units	12/23/2008	3/3/2009	8/21/2009	12/15/2009	3/11/2010	8/31/2010	2/16/2011	7/7/2011
Antimony	ug/L	<6.00	<6.00	<6.00	<6.00	<6.00	<6.00	<6.00	<6.00
Arsenic	ug/L	<1.000	<1.000	<1.000	1.190	<1.000	<1.000	<1.000	<1.000
Barium	ug/L	732	782	679	630	841	801	743	699
Benzene	ug/L	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5
Benzo [a] anthracene	ug/L								<10.0
Benzo [a] pyrene	ug/L								<10.0
Benzo [b] fluoranthene	ug/L								<10.0
Benzo [g,h,i] perylene	ug/L								<10.0
Benzo [k] fluoranthene	ug/L								<10.0
Benzyl alcohol	ug/L								<10.0
Beryllium	ug/L	<1.000	1.230	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000
beta-BHC	ug/L								<.032
Bis[2-chloroethoxy]methane	ug/L								<10.0
Bis[2-chloroethyl]ether	ug/L								<10.0
Bis[2-chloroisopropyl]ether	ug/L								<10.0
Bis[2-ethylhexyl]phthalate	ug/L								<10.00
Bromochloromethane	ug/L	<5	<5	<5	<5	<5	<5	<5	<5
Bromodichloromethane	ug/L	<1	<1	<1	<5	<5	<1	<1	<1
Bromoform	ug/L	<5	<5	<5	<20	<5	<5	<5	<5
Bromomethane	ug/L	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000
Butyl benzyl phthalate	ug/L								<10.0
Cadmium	ug/L	1.250	.974	<.500	<.500	2.000	.661	.861	<.500
Carbon Disulfide	ug/L	<1.000	<1.000	<1.000	<5.000	<1.000	<4.000	<1.000	<1.000
Carbon Tetrachloride	ug/L	<2	<2	<2	<5	<10	<5	<2	<2
Chlordane	ug/L								<2
Chlorobenzene	ug/L	<1	<1	<1	<1	<5	<1	<1	<1
Chlorobenzilate	ug/L								<10.0
Chlorodibromomethane	ug/L	<5	<5	<5	<5	<5	<10	<5	<5
Chloroethane	ug/L	<4	<4	<4	<4	<4	<4	<4	<4
Chloroform	ug/L	<1	<1	<1	<1	<1	<1	<1	<1
Chloromethane	ug/L	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00
Chloroprene	ug/L								<1
Chromium	ug/L	<20.000	<20.000	<20.000	<20.000	<20.000	<20.000	<20.000	<20.000
Chrysene	ug/L								<10.0
cis-1,2-Dichloroethene	ug/L	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000
cis-1,3-Dichloropropene	ug/L	<5	<5	<5	<5	<5	<10	<5	<5
Cobalt	ug/L	<20.000	<20.000	<20.000	<20.000	4.990	10.000	3.400	7.100
Copper	ug/L	<20.00	21.10	<20.00	<20.00	<20.00	<20.00	<20.00	<20.00
Cyanide	mg/L								<.01
delta-BHC	ug/L								<.032
Diallate [cis or trans]	ug/L								<10.0
Dibenz [a,h] anthracene	ug/L								<10.0
Dibenzofuran	ug/L								<10.0
Dichlorodifluoromethane	ug/L								<3
Dieldrin	ug/L								<.032
Diethyl phthalate	ug/L								<10.0
Dimethoate	ug/L								<10.0
Dimethyl phthalate	ug/L								<10.0
Dimethylaminoazobenzene	ug/L								<10.0
Di-n-butyl phthalate	ug/L								<10.000
Di-n-octyl phthalate	ug/L								<10.0
Dinoseb	ug/L								<10.0
Diphenylamine	ug/L								<10.0
Disulfoton	ug/L								<10.0
Endosulfan I	ug/L								<.032
Endosulfan II	ug/L								<.032
Endosulfan sulfate	ug/L								<.03200
Endrin	ug/L								<.032
Endrin aldehyde	ug/L								<.032
Ethyl Methacrylate	ug/L								<2
Ethyl Methanesulfonate	ug/L								<10.0
Ethylbenzene	ug/L	<1	<1	<1	<2	<1	<1	<1	<1
Famphur	ug/L								<20.0
Fluoranthene	ug/L								<10.0
Fluorene	ug/L								<10.0
gamma-BHC [Lindane]	ug/L								<.032
gamma-Chlordane	ug/L								
Heptachlor	ug/L								<.032
Heptachlor Epoxide	ug/L								<.032
Hexachlorobenzene	ug/L								<10.0
Hexachlorobutadiene	ug/L								<10.0
Hexachlorocyclopentadiene	ug/L								<10.0
Hexachloroethane	ug/L								<10.0
Hexachloropropene	ug/L								<10.0
Indeno [1,2,3-cd] pyrene	ug/L								<10.0
Iodomethane	ug/L	<10	<10	<10	<10	<10	<10	<10	<20
Isobutanol	ug/L								<10000

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-21

Constituents	10/27/2011	1/23/2012	4/26/2012	10/9/2012	2/20/2013	10/3/2013	12/18/2013	4/22/2014	5/12/2015
Antimony	<6.00		<6.00	<12.00	<6.00	<1.16		<6.00	<1.00
Arsenic	<1.000		46.300	1.950	<1.000	4.610		<1.000	<2.000
Barium	633		1970	945	1080	1390		1110	929
Benzene	<.5		<.5	<.5	<.5	<.5		<.5	<.5
Benzo [a] anthracene				<33.0					
Benzo [a] pyrene				<33.0					
Benzo [b] fluoranthene				<33.0					
Benzo [g,h,i] perylene				<33.0					
Benzo [k] fluoranthene				<33.0					
Benzyl alcohol				<33.0					
Beryllium	<1.000		10.400	<1.000	<1.000	<.660		<.246	<1.000
beta-BHC				<.064					
Bis[2-chloroethoxy]methane				<33.0					
Bis[2-chloroethyl]ether				<33.0					
Bis[2-chloroisopropyl]ether				<33.0					
Bis[2-ethylhexyl]phthalate				<33.00					
Bromochloromethane	<5		<5	<5	<5	<5		<5	<5
Bromodichloromethane	<1		<1	<2	<1	<1		<1	<1
Bromoform	<5		<5	<5	<5	<5		<5	<5
Bromomethane	<20.000		<50.000	<5.000	<4.000	<4.000		<4.000	<4.000
Butyl benzyl phthalate				<33.0					
Cadmium	<.500		15.600	<.500	1.280	1.210		.866	<.216
Carbon Disulfide	<1.000		<1.000	1.520	<1.000	<.395		<1.000	<1.000
Carbon Tetrachloride	<2		<2	<2	<2	<2		<2	<2
Chlordane				<4					
Chlorobenzene	<1		<1	<1	<1	<1		<1	<1
Chlorobenzilate				<33.0					
Chlorodibromomethane	<5		<5	<5	<5	<5		<5	<5
Chloroethane	<4		<4	<4	<4	<4		<4	<4
Chloroform	<1		<1	<2	<1	<1		<1	<1
Chloromethane	<3.00		<3.00	<3.00	<3.00	<3.00		<3.00	<3.00
Chloroprene				<1					
Chromium	<20.000		68.500	<20.000	<20.000	<3.490		<20.000	<5.000
Chrysene				<33.0					
cis-1,2-Dichloroethene	<1.000		<1.000	<1.000	<1.000	<1.000		<.200	<.291
cis-1,3-Dichloropropene	<5		<5	<5	<5	<5		<5	<5
Cobalt	<1.550		224.000	13.300	12.100	42.900		16.000	1.620
Copper	<20.00		127.00	<20.00	20.30	<20.00		<7.79	13.60
Cyanide				<.01					
delta-BHC				<.064					
Diallate [cis or trans]				<33.0					
Dibenz [a,h] anthracene				<33.0					
Dibenzofuran				<33.0					
Dichlorodifluoromethane				<3					
Dieldrin				<.064					
Diethyl phthalate				<33.0					
Dimethoate				<33.0					
Dimethyl phthalate				<33.0					
Dimethylaminoazobenzene				<33.0					
Di-n-butyl phthalate				<33.000					
Di-n-octyl phthalate				<33.0					
Dinoseb				<33.0					
Diphenylamine				<33.0					
Disulfoton				<33.0					
Endosulfan I				<.064					
Endosulfan II				<.064					
Endosulfan sulfate				<.06400					
Endrin				<.064					
Endrin aldehyde				<.064					
Ethyl Methacrylate				<2					
Ethyl Methanesulfonate				<33.0					
Ethylbenzene	<1		<1	<1	<1	<1		<1	<1
Famphur				<65.9					
Fluoranthene				<33.0					
Fluorene				<33.0					
gamma-BHC [Lindane]				<.064					
gamma-Chlordane				<.064					
Heptachlor				<.064					
Heptachlor Epoxide				<.064					
Hexachlorobenzene				<33.0					
Hexachlorobutadiene				<33.0					
Hexachlorocyclopentadiene				<33.0					
Hexachloroethane				<33.0					
Hexachloropropene				<33.0					
Indeno [1,2,3-cd] pyrene				<33.0					
Iodomethane	<20		<10	<10	<10	<10		<10	<10
Isobutanol				<10000					

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-21

Constituents	7/29/2015	2/15/2016	10/31/2016	3/27/2017	11/13/2017	6/6/2018	11/27/2018	3/18/2019	12/2/2019
Antimony	<1.00	<1.00	<1.00	<1.00	<1.00	<3.00	<1.00	<1.00	<1.00
Arsenic	<2.000	<2.000	<2.000	<2.000	<.827	2.170	<2.000	2.090	3.480
Barium	978	969	1000	969	958	957	421	236	969
Benzene	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5
Benzo [a] anthracene				<10.0					
Benzo [a] pyrene				<10.0					
Benzo [b] fluoranthene				<10.0					
Benzo [g,h,i] perylene				<10.0					
Benzo [k] fluoranthene				<10.0					
Benzyl alcohol				<10.0					
Beryllium	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000
beta-BHC				<.032					
Bis[2-chloroethoxy]methane				<10.0					
Bis[2-chloroethyl]ether				<10.0					
Bis[2-chloroisopropyl]ether				<10.0					
Bis[2-ethylhexyl]phthalate				<1.81					
Bromochloromethane	<5	<5	<5	<5	<5	<5	<5	<5	<5
Bromodichloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromoform	<5	<5	<5	<5	<5	<5	<5	<5	<5
Bromomethane	<4.000	<4.000	<4.000	<4.000	<.576	<4.000	<4.000	<4.000	<4.000
Butyl benzyl phthalate				<10.0					
Cadmium	1.910	<.500	<.063	<.196	<.378	<.264	<.132	<.500	<.100
Carbon Disulfide	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000
Carbon Tetrachloride	<2	<2	<2	<2	<2	<2	<2	<2	<2
Chlordane				<2					
Chlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzilate				<10.0					
Chlorodibromomethane	<5	<5	<5	<5	<5	<5	<5	<5	<5
Chloroethane	<4	<4	<4	<4	<4	<4	<4	<4	<4
Chloroform	<1	<1	<1	<1	<1	<3	<3	<3	<3
Chloromethane	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00
Chloroprene				<1					
Chromium	<5.000	<5.000	<.575	<5.000	<5.000	<2.930	<5.000	<5.000	<5.000
Chrysene				<10.0					
cis-1,2-Dichloroethene	<1.000	<1.000	<.151	<1.000	<.250	<1.000	<1.000	<1.000	<1.000
cis-1,3-Dichloropropene	<5	<5	<5	<5	<5	<5	<5	<5	<5
Cobalt	2.430	<.074	6.540	<.356	3.580	2.480	1.330	3.390	3.300
Copper	5.04	2.85	<5.00	<2.62	<2.27	2.61	5.77	<5.00	<5.00
Cyanide				<.01					
delta-BHC				<.032					
Diallate [cis or trans]				<10.0					
Dibenz [a,h] anthracene				<10.0					
Dibenzofuran				<10.0					
Dichlorodifluoromethane				<3					
Dieldrin				<.032					
Diethyl phthalate				<10.0					
Dimethoate				<10.0					
Dimethyl phthalate				<10.0					
Dimethylaminoazobenzene				<10.0					
Di-n-butyl phthalate				<.601					
Di-n-octyl phthalate				<20.0					
Dinoseb				<10.0					
Diphenylamine				<10.0					
Disulfoton				<10.0					
Endosulfan I				<.032					
Endosulfan II				<.032					
Endosulfan sulfate				<.00465					
Endrin				<.032					
Endrin aldehyde				<.032					
Ethyl Methacrylate				<2					
Ethyl Methanesulfonate				<10.0					
Ethylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Famphur				<20.0					
Fluoranthene				<10.0					
Fluorene				<10.0					
gamma-BHC [Lindane]				<.032					
gamma-Chlordane									
Heptachlor				<.032					
Heptachlor Epoxide				<.032					
Hexachlorobenzene				<10.0					
Hexachlorobutadiene				<10.0					
Hexachlorocyclopentadiene				<20.0					
Hexachloroethane				<10.0					
Hexachloropropene				<10.0					
Indeno [1,2,3-cd] pyrene				<10.0					
Iodomethane	<10	<10	<10	<10	<10	<10	<10	<10	<10
Isobutanol				<10000					

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-21

Constituents	3/30/2020	11/17/2020	5/6/2021	10/7/2021	4/6/2022	8/23/2022	3/8/2023	9/13/2023	5/29/2024
Antimony	<1.00	<1.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00
Arsenic	<1.050 *	2.630	2.900	2.800	3.740	2.285 *	<1.940	<1.530	2.360
Barium	1180 *	894	909	733	1050	1095 *	1210	1240	1110
Benzene	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5
Benzo [a] anthracene					<10.9				
Benzo [a] pyrene					<10.9				
Benzo [b] fluoranthene					<10.9				
Benzo [g,h,i] perylene					<10.9				
Benzo [k] fluoranthene					<10.9				
Benzyl alcohol					<10.9				
Beryllium	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000
beta-BHC					<.064				
Bis[2-chloroethoxy]methane					<10.9				
Bis[2-chloroethyl]ether					<10.9				
Bis[2-chloroisopropyl]ether					<10.9				
Bis[2-ethylhexyl]phthalate					<10.90				
Bromochloromethane	<5	<5	<5	<5	<5	<5	<5	<5	<5
Bromodichloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromoform	<5	<5	<5	<5	<5	<5	<5	<5	<5
Bromomethane	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000
Butyl benzyl phthalate					<10.9				
Cadmium	<.100	<.100	<.100	<.100	<.100	<.100	<.100	<.200	<.200
Carbon Disulfide	<.743 *	<1.000	<1.000	<1.000	<1.000	2.565 *	<1.000	<1.000	<1.000
Carbon Tetrachloride	<2	<2	<2	<2	<2	<2	<2	<2	<2
Chlordane					<2				
Chlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzilate					<10.9				
Chlorodibromomethane	<5	<5	<5	<5	<5	<5	<5	<5	<5
Chloroethane	<4	<4	<4	<4	<4	<4	<4	<4	<4
Chloroform	<3	<3	<3	<3	<3	<3	<3	<3	<3
Chloromethane	<3.00	<3.00	<3.00	<3.00	<3.00	<2.31 *	<3.00	<3.00	<3.00
Chloroprene					<1				
Chromium	<5.000	<5.000	<5.000	<5.000	<5.000	<5.000	<5.000	<5.000	<5.000
Chrysene					<10.9				
cis-1,2-Dichloroethene	<.679 *	<1.000	<.301	<1.000	<.217	<.667 *	<.233	<1.000	<.222
cis-1,3-Dichloropropene	<5	<5	<5	<5	<5	<5	<5	<5	<5
Cobalt	1.700 *	1.860	1.640	2.680	4.620	3.940 *	5.730	4.680	7.150
Copper	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Cyanide					<.01				
delta-BHC					<.064				
Diallate [cis or trans]					<10.9				
Dibenz [a,h] anthracene					<10.9				
Dibenzofuran					<10.9				
Dichlorodifluoromethane					<3				
Dieldrin					<.064				
Diethyl phthalate					<10.9				
Dimethoate					<10.9				
Dimethyl phthalate					<10.9				
Dimethylaminoazobenzene					<10.9				
Di-n-butyl phthalate					<10.900				
Di-n-octyl phthalate					<21.7				
Dinoseb					<10.9				
Diphenylamine					<10.9				
Disulfoton					<10.9				
Endosulfan I					<.064				
Endosulfan II					<.064				
Endosulfan sulfate					<.06400				
Endrin					<.064				
Endrin aldehyde					<.064				
Ethyl Methacrylate					<2				
Ethyl Methanesulfonate					<10.9				
Ethylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Famphur					<10.9				
Fluoranthene					<10.9				
Fluorene					<10.9				
gamma-BHC [Lindane]					<.064				
gamma-Chlordane									
Heptachlor					<.064				
Heptachlor Epoxide					<.064				
Hexachlorobenzene					<10.9				
Hexachlorobutadiene					<10.9				
Hexachlorocyclopentadiene					<10.9				
Hexachloroethane					<10.9				
Hexachloropropene					<10.9				
Indeno [1,2,3-cd] pyrene					<10.9				
Iodomethane	<10	<10	<10	<10	<10	<10	<10	<10	<10
Isobutanol					<10000				

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-21

Constituents	10/15/2024
Antimony	<2.00
Arsenic	6.700
Barium	1170
Benzene	<1.0
Benzo [a] anthracene	
Benzo [a] pyrene	
Benzo [b] fluoranthene	
Benzo [g,h,i] perylene	
Benzo [k] fluoranthene	
Benzyl alcohol	
Beryllium	<4.000
beta-BHC	
Bis[2-chloroethoxy]methane	
Bis[2-chloroethyl]ether	
Bis[2-chloroisopropyl]ether	
Bis[2-ethylhexyl]phthalate	
Bromochloromethane	<1
Bromodichloromethane	<1
Bromoform	<1
Bromomethane	<1.000
Butyl benzyl phthalate	
Cadmium	<.800
Carbon Disulfide	<1.000
Carbon Tetrachloride	<1
Chlordane	
Chlorobenzene	<1
Chlorobenzilate	
Chlorodibromomethane	<1
Chloroethane	<1
Chloroform	<1
Chloromethane	<1.00
Chloroprene	
Chromium	<8.000
Chrysene	
cis-1,2-Dichloroethene	<1.000
cis-1,3-Dichloropropene	<1
Cobalt	13.400
Copper	7.40
Cyanide	
delta-BHC	
Diallate [cis or trans]	
Dibenz [a,h] anthracene	
Dibenzofuran	
Dichlorodifluoromethane	
Dieldrin	
Diethyl phthalate	
Dimethoate	
Dimethyl phthalate	
Dimethylaminoazobenzene	
Di-n-butyl phthalate	
Di-n-octyl phthalate	
Dinoseb	
Diphenylamine	
Disulfoton	
Endosulfan I	
Endosulfan II	
Endosulfan sulfate	
Endrin	
Endrin aldehyde	
Ethyl Methacrylate	
Ethyl Methanesulfonate	
Ethylbenzene	<1
Famphur	
Fluoranthene	
Fluorene	
gamma-BHC [Lindane]	
gamma-Chlordane	
Heptachlor	
Heptachlor Epoxide	
Hexachlorobenzene	
Hexachlorobutadiene	
Hexachlorocyclopentadiene	
Hexachloroethane	
Hexachloropropene	
Indeno [1,2,3-cd] pyrene	
Iodomethane	<1
Isobutanol	

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-21

Constituents	Units	12/23/2008	3/3/2009	8/21/2009	12/15/2009	3/11/2010	8/31/2010	2/16/2011	7/7/2011
Isodrin	ug/L								<10.0
Isophorone	ug/L								<10.0
Isosafrole	ug/L								<10.0
Kepone	ug/L								<10.0
Lead	ug/L	<4.000	9.300	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000
MP-Xylene	ug/L								
Mercury	ug/L								<.200
Methacrylonitrile	ug/L								<1
Methapyrilene	ug/L								<10.0
Methoxychlor	ug/L								<.032
Methyl Methacrylate	ug/L								<2
Methyl Methanesulfonate	ug/L								<10.0
Methylene Bromide	ug/L	<1	<1	<1	<1	<50	<1	<1	<1
Methylene Chloride	ug/L	<5.000	<5.000	<5.000	<5.000	<5.000	<5.000	<5.000	<5.000
Naphthalene	ug/L								<5
Nickel	ug/L	<50.00	<50.00	<50.00	<50.00	<50.00	<50.00	<50.00	<50.00
Nitrobenzene	ug/L								<10.0
N-Nitrosodiethylamine	ug/L								<10.0
N-Nitrosodimethylamine	ug/L								<10.0
N-Nitrosodi-n-butylamine	ug/L								<10.0
N-Nitrosodi-n-propylamine	ug/L								<10.0
N-Nitrosodiphenylamine	ug/L								<10.0
N-Nitrosomethylethylamine	ug/L								<10.0
N-Nitrosopiperidine	ug/L								<10.0
N-Nitrosopyrrolidine	ug/L								<10.0
O,O,O-Triethyl Phosphorothioate	ug/L								<10.0
o-Toluidine	ug/L								<10.0
o-Xylene	ug/L								
Parathion-Ethyl	ug/L								<10.0
Parathion-Methyl	ug/L								<10.0
PCB-1016	ug/L								<.800
PCB-1221	ug/L								<.800
PCB-1232	ug/L								<.800
PCB-1242	ug/L								<.800
PCB-1248	ug/L								<.800
PCB-1254	ug/L								<.800
PCB-1260	ug/L								<.800
Pentachlorobenzene	ug/L								<10.0
Pentachloronitrobenzene	ug/L								<10.0
Pentachlorophenol [2C]	ug/L								<10.0
Phenacetin	ug/L								<10.0
Phenanthrene	ug/L								<10.0
Phenol	ug/L								<10.0
Phorate	ug/L								<10.0
Pronamide	ug/L								<10.0
Propionitrile	ug/L								<10
Pyrene	ug/L								<10.0
Safrole	ug/L								<10.0
Selenium	ug/L	<5.00	<5.00	18.90	13.20	<5.00	<5.00	<5.00	<5.00
Silver	ug/L	<20.000	<20.000	<20.000	<20.000	<20.000	<20.000	<20.000	<20.000
Styrene	ug/L	<1	<1	<1	<5	<5	<4	<1	<1
Sulfate	mg/L								
Sulfide	mg/L								.290
Tetrachloroethene	ug/L	<1	<1	<1	<1	<5	<1	<1	<1
Thallium	ug/L	<2.000	<2.000	<2.000	<2.000	<2.000	<2.000	<2.000	<2.000
Thionazin	ug/L								<10.0
Tin	ug/L								<100
Toluene	ug/L	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000
Total Suspended Solids	mg/L								
Toxaphene	ug/L								<2
trans-1,2-Dichloroethene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,3-Dichloropropene	ug/L	<5	<5	<5	<20	<5	<10	<5	<10
trans-1,4-Dichloro-2-Butene	ug/L	<10	<10	<10	<10	<50	<10	<10	<10
Trichloroethene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	ug/L	<4	<4	<4	<4	<4	<4	<4	<4
Vanadium	ug/L	<50.000	<50.000	<50.000	<50.000	<50.000	<50.000	<50.000	<50.000
Vinyl Acetate	ug/L	<2	<2	<2	<2	<2	<2	<4	<2
Vinyl Chloride	ug/L	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	ug/L	<3.00	<3.00	<3.00	<9.00	<7.50	<3.00	<3.00	<3.00
Zinc	ug/L	43.3	108.0	63.2	66.3	80.0	52.8	<20.0	<20.0

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-21

Constituents	10/27/2011	1/23/2012	4/26/2012	10/9/2012	2/20/2013	10/3/2013	12/18/2013	4/22/2014	5/12/2015
Isodrin				<33.0					
Isophorone				<33.0					
Isosafrole				<33.0					
Kepone				<33.0					
Lead	<4.000		778.000	<4.000	7.590	7.050		4.640	.545
MP-Xylene				<2	<2				
Mercury				<.267					
Methacrylonitrile				<2					
Methapyrilene				<33.0					
Methoxychlor				<.064					
Methyl Methacrylate				<2					
Methyl Methanesulfonate				<33.0					
Methylene Bromide	<1		<1	<1	<1	<1		<1	<1
Methylene Chloride	<5.000		<5.000	<5.000	<5.000	<5.000		<5.000	<5.000
Naphthalene				<5					
Nickel	<50.00		204.00	<50.00	<50.00	72.90		<33.50	17.20
Nitrobenzene				<33.0					
N-Nitrosodiethylamine				<33.0					
N-Nitrosodimethylamine				<33.0					
N-Nitrosodi-n-butylamine				<33.0					
N-Nitrosodi-n-propylamine				<33.0					
N-Nitrosodiphenylamine				<33.0					
N-Nitrosomethylethylamine				<33.0					
N-Nitrosopiperidine				<33.0					
N-Nitrosopyrrolidine				<33.0					
O,O,O-Triethyl Phosphorothioate				<33.0					
o-Toluidine				<33.0					
o-Xylene				<1	<1				
Parathion-Ethyl				<33.0					
Parathion-Methyl				<33.0					
PCB-1016				<.909					
PCB-1221				<.909					
PCB-1232				<.909					
PCB-1242				<.909					
PCB-1248				<.909					
PCB-1254				<.909					
PCB-1260				<.909					
Pentachlorobenzene				<33.0					
Pentachloronitrobenzene				<33.0					
Pentachlorophenol [2C]				<33.0					
Phenacetin				<33.0					
Phenanthrene				<33.0					
Phenol				62.5	<10.0	34.7	<10.1	<10.2	<10.2
Phorate				<33.0					
Pronamide				<33.0					
Propionitrile				<10					
Pyrene				<33.0					
Safrole				<33.0					
Selenium	<5.00		<5.00	<5.00	<5.00	<5.00		<5.00	<5.00
Silver	<20.000		<20.000	<20.000	<20.000	<20.000		<20.000	<1.000
Styrene	<1		<1	<1	<1	<1		<1	<1
Sulfate									
Sulfide	3.900	<1.000	<1.000	4.500	<1.000	<1.000		<1.000	<1.000
Tetrachloroethene	<1		<1	<1	<1	<1		<1	<1
Thallium	<2.000		2.300	<2.000	<2.000	<2.000		<2.000	<.033
Thionazin				<33.0					
Tin				<100					
Toluene	<1.000		<1.000	<1.000	<1.000	24.300		<1.000	<1.000
Total Suspended Solids								790.00	12.30
Toxaphene				<4					
trans-1,2-Dichloroethene	<1		<1	<1	<1	<1		<1	<1
trans-1,3-Dichloropropene	<5		<5	<5	<5	<5		<5	<5
trans-1,4-Dichloro-2-Butene	<10		<10	<10	<10	<10		<10	<10
Trichloroethene	<1		<1	<1	<1	<1		<1	<1
Trichlorofluoromethane	<4		<4	<4	<4	<4		<4	<4
Vanadium	<50.000		409.000	<50.000	<50.000	<26.300		<9.780	<.605
Vinyl Acetate	<2		<5	<2	<2	<2		<2	<10
Vinyl Chloride	<1		<1	<1	<1	<1		<1	<1
Xylenes, total	<3.00		<3.00	<3.00	<3.00	<3.00		<3.00	<3.00
Zinc	<20.0		461.0	57.0	84.5	209.0		<40.0	<10.0

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-21

Constituents	7/29/2015	2/15/2016	10/31/2016	3/27/2017	11/13/2017	6/6/2018	11/27/2018	3/18/2019	12/2/2019
Isodrin				<10.0					
Isophorone				<10.0					
Isosafrole				<10.0					
Kepone				<10.0					
Lead	<.199	<.500	<.500	<.500	<.500	<.186	<.500	1.560	<.423
MP-Xylene									
Mercury				<.200					
Methacrylonitrile				<10					
Methapyrilene				<10.0					
Methoxychlor				<.032					
Methyl Methacrylate				<2					
Methyl Methanesulfonate				<10.0					
Methylene Bromide	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	<5.000	<.643	<.275	<5.000	<5.000	<5.000	<5.000	<5.000	<5.000
Naphthalene				<5					
Nickel	18.50	7.77	14.30	9.98	10.80	12.20	6.55	6.09	<3.48
Nitrobenzene				<10.0					
N-Nitrosodiethylamine				<10.0					
N-Nitrosodimethylamine				<10.0					
N-Nitrosodi-n-butylamine				<10.0					
N-Nitrosodi-n-propylamine				<10.0					
N-Nitrosodiphenylamine				<10.0					
N-Nitrosomethylethylamine				<10.0					
N-Nitrosopiperidine				<10.0					
N-Nitrosopyrrolidine				<10.0					
O,O,O-Triethyl Phosphorothioate				<10.0					
o-Toluidine				<10.0					
o-Xylene									
Parathion-Ethyl				<10.0					
Parathion-Methyl				<10.0					
PCB-1016				<.808					
PCB-1221				<.808					
PCB-1232				<.808					
PCB-1242				<.808					
PCB-1248				<.808					
PCB-1254				<.808					
PCB-1260				<.808					
Pentachlorobenzene				<10.0					
Pentachloronitrobenzene				<10.0					
Pentachlorophenol [2C]				<10.0					
Phenacetin				<10.0					
Phenanthrene				<10.0					
Phenol	<10.1	<10.4	<11.0	<10.0	<100.0				
Phorate				<10.0					
Pronamide				<10.0					
Propionitrile				<10					
Pyrene				<10.0					
Safrole				<10.0					
Selenium	<5.00	<5.00	<5.00	<5.00	<5.00	<2.50	<5.00	<5.00	<5.00
Silver	<1.000	<1.000	<1.000	<1.000	<.204	<.500	<1.000	<1.000	<1.000
Styrene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Sulfate									
Sulfide	<1.000	<1.000	<1.000	<1.000	4.930	<1.000	<1.000	2.020	<.707
Tetrachloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Thallium	<.034	<.035	<.028	<1.000	<1.000	<2.000	<1.000	<1.000	<1.000
Thionazin				<10.0					
Tin				<5					
Toluene	<1.000	<.202	<1.000	<1.000	<1.000	<1.000	<1.000	23.300	173.000
Total Suspended Solids	14.90	<1.00	3.13	6.50	<1.25	<1.88	3.13	62.00	36.70
Toxaphene				<2					
trans-1,2-Dichloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,3-Dichloropropene	<5	<5	<5	<5	<5	<5	<5	<5	<5
trans-1,4-Dichloro-2-Butene	<10	<10	<10	<10	<10	<10	<10	<10	<10
Trichloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	<4	<4	<4	<4	<4	<4	<4	<4	<4
Vanadium	<.910	<.533	<.428	<.999	<5.000	<3.720	<1.330	<3.530	<.980
Vinyl Acetate	<10	<10	<10	<10	<10	<10	<10	<10	<10
Vinyl Chloride	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00
Zinc	<10.0	<10.0	<10.0	<20.0	35.2	<20.0	<16.7	<20.0	<20.0

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-21

Constituents	3/30/2020	11/17/2020	5/6/2021	10/7/2021	4/6/2022	8/23/2022	3/8/2023	9/13/2023	5/29/2024
Isodrin					<10.9				
Isophorone					<10.9				
Isosafrole					<10.9				
Kepone					<10.9				
Lead	<.500	<.152	<.500	<.500	<.500	<.500	<.500	<.500	<.500
MP-Xylene									
Mercury					<.200				
Methacrylonitrile					<10				
Methapyrilene					<10.9				
Methoxychlor					<.064				
Methyl Methacrylate					<2				
Methyl Methanesulfonate					<10.9				
Methylene Bromide	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	<7.500 *	<5.000	<5.000	<5.000	<5.000	<5.000	<5.000	<5.000	<5.000
Naphthalene					<5				
Nickel	<5.00	<3.14	<2.68	<4.32	<3.56	<3.55 *	8.53	<4.44	11.70
Nitrobenzene					<10.9				
N-Nitrosodiethylamine					<10.9				
N-Nitrosodimethylamine					<10.9				
N-Nitrosodi-n-butylamine					<10.9				
N-Nitrosodi-n-propylamine					<10.9				
N-Nitrosodiphenylamine					<10.9				
N-Nitrosomethylethylamine					<10.9				
N-Nitrosopiperidine					<10.9				
N-Nitrosopyrrolidine					<10.9				
O,O,O-Triethyl Phosphorothioate					<10.9				
o-Toluidine					<10.9				
o-Xylene									
Parathion-Ethyl					<10.9				
Parathion-Methyl					<10.9				
PCB-1016					<.800				
PCB-1221					<.800				
PCB-1232					<.800				
PCB-1242					<.800				
PCB-1248					<.800				
PCB-1254					<.800				
PCB-1260					<.800				
Pentachlorobenzene					<10.9				
Pentachloronitrobenzene					<10.9				
Pentachlorophenol [2C]					<10.9				
Phenacetin					<10.9				
Phenanthrene					<10.9				
Phenol					<10.9				
Phorate					<10.9				
Pronamide					<10.9				
Propionitrile					<10				
Pyrene					<10.9				
Safrole					<10.9				
Selenium	<5.00	<5.00	<1.05	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Silver	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000
Styrene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Sulfate									
Sulfide	1.080	<10.000	<10.000	<.588	<1.000	<1.000	<1.000	<1.000	<1.000
Tetrachloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Thallium	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000
Thionazin					<10.9				
Tin					<5				
Toluene	301.500 *	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000
Total Suspended Solids	10.34 *	<24.00	16.00	13.60	13.50	12.30 *	4.38	4.50	5.00
Toxaphene					<2				
trans-1,2-Dichloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,3-Dichloropropene	<5	<5	<5	<5	<5	<5	<5	<5	<5
trans-1,4-Dichloro-2-Butene	<10	<10	<10	<10	<10	<10	<10	<10	<10
Trichloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	<4	<4	<4	<4	<4	<4	<4	<4	<4
Vanadium	<5.000	<5.000	<5.000	<5.000	<5.000	<5.000	<5.000	<5.000	<5.000
Vinyl Acetate	<10	<10	<10	<10	<10	<10	<10	<10	<10
Vinyl Chloride	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	<3.00	<3.00	<.44	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00
Zinc	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-21

Constituents	10/15/2024
Isodrin	
Isophorone	
Isosafrole	
Kepone	
Lead	<4.000
MP-Xylene	
Mercury	
Methacrylonitrile	
Methapyrilene	
Methoxychlor	
Methyl Methacrylate	
Methyl Methanesulfonate	
Methylene Bromide	<1
Methylene Chloride	<5.000
Naphthalene	
Nickel	27.20
Nitrobenzene	
N-Nitrosodiethylamine	
N-Nitrosodimethylamine	
N-Nitrosodi-n-butylamine	
N-Nitrosodi-n-propylamine	
N-Nitrosodiphenylamine	
N-Nitrosomethylethylamine	
N-Nitrosopiperidine	
N-Nitrosopyrrolidine	
O,O,O-Triethyl Phosphorothioate	
o-Toluidine	
o-Xylene	
Parathion-Ethyl	
Parathion-Methyl	
PCB-1016	
PCB-1221	
PCB-1232	
PCB-1242	
PCB-1248	
PCB-1254	
PCB-1260	
Pentachlorobenzene	
Pentachloronitrobenzene	
Pentachlorophenol [2C]	
Phenacetin	
Phenanthrene	
Phenol	
Phorate	
Pronamide	
Propionitrile	
Pyrene	
Safrole	
Selenium	<4.00
Silver	<4.000
Styrene	<1
Sulfate	18.1
Sulfide	
Tetrachloroethene	<1
Thallium	<2.000
Thionazin	
Tin	
Toluene	<1.000
Total Suspended Solids	
Toxaphene	
trans-1,2-Dichloroethene	<1
trans-1,3-Dichloropropene	<1
trans-1,4-Dichloro-2-Butene	<5
Trichloroethene	<1
Trichlorofluoromethane	<1
Vanadium	<20.000
Vinyl Acetate	<5
Vinyl Chloride	<1
Xylenes, total	<2.00
Zinc	28.1

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-22

Constituents	Units	2/11/2008	4/30/2008	7/9/2008	9/11/2008	12/10/2008	8/21/2009	3/11/2010	8/31/2010	2/16/2011
1,1,1,2-Tetrachloroethane	ug/L	<.33	<.33	<.33	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00
1,1,1-Trichloroethane	ug/L	<.19	<.19	<.19	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1,2,2-Tetrachloroethane	ug/L	<.23	<.23	<.23	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1,2-Trichloroethane	ug/L	<.37	<.37	<.37	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1-Dichloroethane	ug/L	<.19	<.19	<.19	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1-Dichloroethene	ug/L	<.37	<.37	<.37	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00
1,2,3-Trichloropropane	ug/L	<.7	<.7	<.7	<1.0	<1.0	<1.0	<2.5	<1.0	<1.0
1,2-Dibromo-3-Chloropropane	ug/L	<.860	<.860	<.860	<.860	<.860	<.498	<.498	<.498	<.120
1,2-Dibromoethane	ug/L	<.250	<.250	<.250	<.250	<.250	<.255	<.255	<.255	<.130
1,2-Dichlorobenzene	ug/L	<.21	<.21	<.21	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-Dichloroethane	ug/L	<.2	<.2	<.2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane	ug/L	<.4	<.4	<.4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,4-Dichlorobenzene	ug/L	<.16	<.16	<.16	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
2-Butanone	ug/L	<.91	<.91	<.91	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00
2-Hexanone	ug/L	<1.76	<1.76	<1.76	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00
4-Methyl-2-Pentanone	ug/L	<.31	<.31	<.31	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00
Acetone	ug/L	<4.62	<4.62	<4.62	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00
Acrylonitrile	ug/L	<1.28	<1.28	<1.28	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00
Antimony	ug/L	<6.00	<6.00	<6.00	<6.00	<6.00	<6.00	<6.00	<6.00	<6.00
Arsenic	ug/L	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Barium	ug/L	248	229	231	234	242	233 *	221	244	252
Benzene	ug/L	<.16	<.16	<.16	<.50	<.50	<.50	<.50	<.50	<.50
Beryllium	ug/L	<1.000	<.028	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000
Bromochloromethane	ug/L	<.76	<.76	<.76	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Bromodichloromethane	ug/L	<.2	<.2	<.2	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0
Bromoform	ug/L	<.43	<.43	<.43	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Bromomethane	ug/L	<.48	<.48	<.48	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00
Cadmium	ug/L	<.500	.170	<.500	1.580	<.500	<.500	<.500	<.500	<.500
Carbon Disulfide	ug/L	<.18	<.18	<.18	<1.00	<1.00	<1.00	<1.00	<4.00	<1.00
Carbon Tetrachloride	ug/L	<.31	<.31	<.31	<2.00	<2.00	<2.00	<10.00	<5.00	<2.00
Chlorobenzene	ug/L	<.17	<.17	<.17	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00
Chlorodibromomethane	ug/L	<.26	<.26	<.26	<5.00	<5.00	<5.00	<5.00	<10.00	<5.00
Chloroethane	ug/L	<.5	<.5	<.5	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Chloroform	ug/L	<.17	<.17	<.17	<1.00	<2.50	<1.00	<1.00	<1.00	<1.00
Chloromethane	ug/L	<.2	<.2	<.2	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
Chromium	ug/L	<20.00	<1.73	<20.00	<20.00	<20.00	<20.00	<20.00	<20.00	<20.00
cis-1,2-Dichloroethene	ug/L	<.37	<.37	<.37	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
cis-1,3-Dichloropropene	ug/L	<.23	<.23	<.23	<5.00	<5.00	<5.00	<5.00	<10.00	<5.00
Cobalt	ug/L	<20.000	<1.400	<20.000	<20.000	<20.000	<20.000	<1.550	<1.550	<1.550
Copper	ug/L	<20.0	<13.1	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
Ethylbenzene	ug/L	<.25	<.25	<.25	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Iodomethane	ug/L	<.4	<.4	<.4	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Lead	ug/L	<4.000	<.370	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000
MP-Xylene	ug/L									
Methylene Bromide	ug/L	<.3	<.3	<.3	<1.0	<1.0	<1.0	<50.0	<1.0	<1.0
Methylene Chloride	ug/L	<.45	<.45	.80	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Nickel	ug/L	<50.0	<4.6	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
o-Xylene	ug/L									
Selenium	ug/L	<5.00	<1.44	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Silver	ug/L	<20.000	<2.610	<20.000	<20.000	<20.000	<20.000	<20.000	<20.000	<20.000
Styrene	ug/L	<.19	<.19	<.19	<1.00	<1.00	<1.00	<5.00	<4.00	<1.00
Sulfide	mg/L									
Tetrachloroethene	ug/L	.58	<.38	<.38	<1.00	<1.00	<1.00	<5.00	<1.00	<1.00
Thallium	ug/L	<2.000	<.700	<2.000	<2.000	<2.000	<2.000	<2.000	<2.000	<2.000
Toluene	ug/L	<.14	<.14	<.14	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Total Suspended Solids	mg/L									
trans-1,2-Dichloroethene	ug/L	<.31	<.31	<.31	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
trans-1,3-Dichloropropene	ug/L	<.17	<.17	<.17	<5.00	<5.00	<5.00	<5.00	<10.00	<5.00
trans-1,4-Dichloro-2-Butene	ug/L	<1.8	<1.8	<1.8	<10.0	<10.0	<10.0	<50.0	<10.0	<10.0
Trichloroethene	ug/L	<.24	<.24	<.24	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Trichlorofluoromethane	ug/L	<.26	<.26	<.26	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00
Vanadium	ug/L	<50.00	<1.60	<50.00	<50.00	<50.00	<50.00	<50.00	<50.00	<50.00
Vinyl Acetate	ug/L	<1.36	<1.36	<1.36	<2.50	<2.00	<2.00	<2.00	<2.00	<4.00
Vinyl Chloride	ug/L	<.26	<.26	<.26	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Xylenes, total	ug/L	<.30	<.30	<.30	<3.00	<3.00	<3.00	<7.50	<3.00	<3.00
Zinc	ug/L	<20.00	<5.27	25.10	<20.00	21.30	<20.00	<20.00	<20.00	<20.00

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-22

Constituents	10/27/2011	4/26/2012	10/9/2012	2/20/2013	5/15/2013	10/3/2013	4/22/2014	7/10/2014	10/14/2014
1,1,1,2-Tetrachloroethane	<1.00		<1.00	<1.00		<1.00	<1.00		<1.00
1,1,1-Trichloroethane	<1.00		<1.00	<1.00		<1.00	<1.00		<1.00
1,1,2,2-Tetrachloroethane	<1.00		<1.00	<1.00		<1.00	<1.00		<1.00
1,1,2-Trichloroethane	<1.00		<2.00	<1.00		<1.00	<1.00		<1.00
1,1-Dichloroethane	<1.00		<1.00	<1.00		<1.00	<1.00		<1.00
1,1-Dichloroethene	<2.00		<2.00	<2.00		<2.00	<2.00		<2.00
1,2,3-Trichloropropane	<1.0		<1.0	<1.0		<1.0	<1.0		<1.0
1,2-Dibromo-3-Chloropropane	<.120		<.120	<.120		<.120	<.120		<.120
1,2-Dibromoethane	<.130		<.130	<.130		<.130	<.130		<.130
1,2-Dichlorobenzene	<1.00		<1.00	<1.00		<1.00	<1.00		<1.00
1,2-Dichloroethane	<1.0		<1.0	<1.0		<1.0	<1.0		<1.0
1,2-Dichloropropane	<1.0		<1.0	<1.0		<1.0	<1.0		<1.0
1,4-Dichlorobenzene	<1.00		<1.00	<1.00		<1.00	<1.00		<1.00
2-Butanone	<10.00		<10.00	<10.00		<10.00	<10.00		<10.00
2-Hexanone	<10.00		<10.00	<10.00		<10.00	<10.00		<10.00
4-Methyl-2-Pentanone	<10.00		<10.00	<10.00		<10.00	<10.00		<10.00
Acetone	<10.00		<10.00	<10.00		<10.00	<10.00		<10.00
Acrylonitrile	<10.00		<10.00	<10.00		<10.00	<10.00		<10.00
Antimony	<6.00	<6.00	<6.00	<6.00		<6.00	<6.00		<6.00
Arsenic	<1.00	<4.00	<1.00	<1.00		<1.00	<1.00		<1.00
Barium	221	275	239 *	247 *		220	244		254
Benzene	<.50		<.50	<.50		<.50	<.50		<.50
Beryllium	<1.000	<4.000	<1.000	<1.000		<1.000	<1.000		<1.000
Bromochloromethane	<5.00		<5.00	<5.00		<5.00	<5.00		<5.00
Bromodichloromethane	<1.0		<2.0	<1.0		<1.0	<1.0		<1.0
Bromoform	<5.00		<5.00	<5.00		<5.00	<5.00		<5.00
Bromomethane	<20.00		<5.00	<4.00		<4.00	<4.00		<4.00
Cadmium	<.500	<.800	.588 *	.875 *		<.500	.507		<1.000
Carbon Disulfide	<1.00		<1.00	<1.00		<1.00	<1.00		<1.00
Carbon Tetrachloride	<2.00		<2.00	<2.00		<2.00	<2.00		<2.00
Chlorobenzene	<1.00		<1.00	<1.00		<1.00	<1.00		<1.00
Chlorodibromomethane	<5.00		<5.00	<5.00		<5.00	<5.00		<5.00
Chloroethane	<4.0		<4.0	<4.0		<4.0	<4.0		<4.0
Chloroform	<1.00		<2.00	<1.00		<1.00	<1.00		<1.00
Chloromethane	<3.0		<3.0	<3.0		<3.0	<3.0		<3.0
Chromium	<20.00	<20.00	<20.00	<20.00		<20.00	<20.00		<20.00
cis-1,2-Dichloroethene	<1.00		<1.00	<1.00		<1.00	<1.00		<1.00
cis-1,3-Dichloropropene	<5.00		<5.00	<5.00		<5.00	<5.00		<5.00
Cobalt	1.730	<1.000	<1.550	<1.320		<1.320	<2.410		<2.410
Copper	<20.0	<20.0	<20.0	<20.0		<20.0	<20.0		<20.0
Ethylbenzene	<1.00		<1.00	<1.00		<1.00	<1.00		<1.00
Iodomethane	<20.0		<10.0	<10.0		<10.0	<10.0		<10.0
Lead	<4.000	<4.000	<4.000	<4.000		<4.000	<4.000		<4.000
MP-Xylene			<2	<2					
Methylene Bromide	<1.0		<1.0	<1.0		<1.0	<1.0		<1.0
Methylene Chloride	<5.00		<5.00	<5.00		<5.00	<5.00		<5.00
Nickel	<50.0	<50.0	<50.0	<50.0		<50.0	<50.0		<50.0
o-Xylene			<1	<1					
Selenium	<5.00	<5.00	<5.00	<5.00		<5.00	<5.00		<5.00
Silver	<20.000	<20.000	<20.000	<20.000		<20.000	<20.000		<20.000
Styrene	<1.00		<1.00	<1.00		<1.00	<1.00		<1.00
Sulfide	<1				<1		<1	<1	<1
Tetrachloroethene	<1.00		<1.00	<1.00		<1.00	<1.00		<1.00
Thallium	<2.000	<2.000	<2.000	<2.000		<2.000	<2.000		<2.000
Toluene	<1.00		<1.00	<1.00		<1.00	<1.00		<1.00
Total Suspended Solids							10.30	6.00	7.00
trans-1,2-Dichloroethene	<1.00		<1.00	<1.00		<1.00	<1.00		<1.00
trans-1,3-Dichloropropene	<5.00		<5.00	<5.00		<5.00	<5.00		<5.00
trans-1,4-Dichloro-2-Butene	<10.0		<10.0	<10.0		<10.0	<10.0		<10.0
Trichloroethene	<1.00		<1.00	<1.00		<1.00	<1.00		<1.00
Trichlorofluoromethane	<4.00		<4.00	<4.00		<4.00	<4.00		<4.00
Vanadium	<50.00	<50.00	<50.00	<50.00		<50.00	<50.00		<50.00
Vinyl Acetate	<2.00		<2.00	<2.00		<2.00	<2.00		<10.00
Vinyl Chloride	<1.00		<1.00	<1.00		<1.00	<1.00		<1.00
Xylenes, total	<3.00		<3.00	<3.00		<3.00	<3.00		<3.00
Zinc	<20.00	25.00	<20.00	24.25 *		34.10	<20.00		<20.00

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-22

Constituents	5/12/2015	7/29/2015	3/28/2016	10/31/2016	3/27/2017	11/13/2017	6/6/2018	11/26/2018	3/18/2019
1,1,1,2-Tetrachloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1,1-Trichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1,2,2-Tetrachloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1,2-Trichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1-Dichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1-Dichloroethene	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00
1,2,3-Trichloropropane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dibromo-3-Chloropropane	<.500	<.500	<.500	<.500	<.500	<.500	<.500	<.500	<1.200
1,2-Dibromoethane	<.130	<.130	<.130	<.130	<.130	<.130	<.130	<.130	<.340
1,2-Dichlorobenzene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-Dichloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,4-Dichlorobenzene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
2-Butanone	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00
2-Hexanone	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00
4-Methyl-2-Pentanone	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00
Acetone	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00
Acrylonitrile	<10.00	<10.00	<10.00	<5.00	<10.00	<10.00	<10.00	<10.00	<10.00
Antimony	<1.00	<1.00	236.00	2.13	<1.00	1.54	6.51	<1.00	<1.00
Arsenic	<2.00	<2.00	<2.00	<2.00	<2.00	<1.00	1.35	<1.00	<2.00
Barium	244	241	250	248	273	220	262	270	266
Benzene	<.50	<.50	<.50	<.50	<.50	<.50	<.50	<.50	<.50
Beryllium	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000
Bromochloromethane	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Bromodichloromethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromoform	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Bromomethane	<4.00	<4.00	<4.00	<4.00	<4.00	<1.00	<4.00	<4.00	<4.00
Cadmium	<.500	<1.000	<1.000	<.500	<.500	<.500	<.500	<.500	<.500
Carbon Disulfide	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Carbon Tetrachloride	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00
Chlorobenzene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Chlorodibromomethane	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Chloroethane	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Chloroform	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<3.00	<3.00	<3.00
Chloromethane	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
Chromium	<5.00	<5.00	<1.00	<5.00	<5.00	<5.00	<4.00	<5.00	<5.00
cis-1,2-Dichloroethene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
cis-1,3-Dichloropropene	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Cobalt	<1.000	<1.000	<1.000	<.500	<.500	<.500	<1.000	<.500	<.500
Copper	<2.0	16.4	<5.0	<5.0	<5.0	<5.0	<2.0	<5.0	<5.0
Ethylbenzene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Iodomethane	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Lead	<1.000	<.500	.765	<.500	<.500	<.500	<1.000	<.500	<.500
MP-Xylene									
Methylene Bromide	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methylene Chloride	<5.00	<5.00	<5.00	<1.00	<5.00	<5.00	<5.00	<5.00	<5.00
Nickel	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<1.0	<5.0	<5.0
o-Xylene									
Selenium	<5.00	<5.00	<2.00	<1.00	<2.00	<2.00	<2.50	<2.00	<2.00
Silver	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<.500	<1.000	<1.000
Styrene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Sulfide	<1			<1					
Tetrachloroethene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Thallium	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<2.000	<1.000	<1.000
Toluene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Total Suspended Solids	4.62	6.50	8.37	5.13	<1.88	2.00	2.00	<1.88	<1.00
trans-1,2-Dichloroethene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
trans-1,3-Dichloropropene	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
trans-1,4-Dichloro-2-Butene	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Trichloroethene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Trichlorofluoromethane	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00
Vanadium	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<4.00	<2.00	<2.00
Vinyl Acetate	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00
Vinyl Chloride	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Xylenes, total	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00
Zinc	<10.00	97.40	13.20	12.50	<20.00	<20.00	<20.00	<20.00	<20.00

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-22

Constituents	12/2/2019	3/30/2020	11/17/2020	5/6/2021	10/7/2021	4/6/2022	8/23/2022	3/8/2023	9/13/2023
1,1,1,2-Tetrachloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1,1-Trichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1,2,2-Tetrachloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1,2-Trichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1-Dichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1-Dichloroethene	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00
1,2,3-Trichloropropane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dibromo-3-Chloropropane	<1.200	<5.000	<5.000	<5.000	<5.000	<5.000	<5.000	<5.000	<5.000
1,2-Dibromoethane	<.340	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000
1,2-Dichlorobenzene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-Dichloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,4-Dichlorobenzene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
2-Butanone	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00
2-Hexanone	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00
4-Methyl-2-Pentanone	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00
Acetone	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00
Acrylonitrile	<10.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Antimony	<1.00	<1.00	<1.00	<2.00	<2.00	<1.00	5.65	<2.00	<2.00
Arsenic	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<1.00	<1.00 *
Barium	264	249	208	304	274	241	250	251	238 *
Benzene	<.50	<.50	<.50	<.50	<.50	<.50	<.50	<.50	<.50
Beryllium	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000
Bromochloromethane	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Bromodichloromethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromoform	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Bromomethane	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00
Cadmium	<.100	<.100	.307	<.100	<.100	<.100	<.100	.186	<.200
Carbon Disulfide	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Carbon Tetrachloride	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00
Chlorobenzene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Chlorodibromomethane	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Chloroethane	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Chloroform	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00
Chloromethane	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
Chromium	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
cis-1,2-Dichloroethene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
cis-1,3-Dichloropropene	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Cobalt	<.500	<.500	1.380	<.500	<.500	<.500	<.500	<.197	<.500
Copper	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Ethylbenzene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Iodomethane	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Lead	<.500	<.500	<1.000	<.500	<.500	<.500	.528	<.369	<.500
MP-Xylene									
Methylene Bromide	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methylene Chloride	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Nickel	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	10.8 *
o-Xylene									
Selenium	<2.00	<2.00	<3.00	<1.02	<1.52	<1.69	<5.00	<2.05	<3.25 *
Silver	<1.000	<1.000	<1.000	<1.000	<1.000	<.651	<1.000	<1.000	<1.000
Styrene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Sulfide					<1				
Tetrachloroethene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Thallium	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<.746	<1.000
Toluene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Total Suspended Solids	<1.88	<1.88	6.50	<1.88	<1.88	<1.88	4.75	<1.88	<1.51 *
trans-1,2-Dichloroethene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
trans-1,3-Dichloropropene	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
trans-1,4-Dichloro-2-Butene	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Trichloroethene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Trichlorofluoromethane	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00
Vanadium	<2.00	<5.00	<3.00	<1.57	<1.10	<1.11	<2.01	<1.33	<1.36 *
Vinyl Acetate	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00
Vinyl Chloride	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Xylenes, total	<3.00	<3.00	<3.00	<.99	<3.00	<3.00	<3.00	<3.00	<3.00
Zinc	<20.00	<20.00	<20.00	<20.00	<20.00	<20.00	<20.00	<20.00	<20.00

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-22

Constituents	5/29/2024	10/15/2024
1,1,1,2-Tetrachloroethane	<1.00	<1.00
1,1,1-Trichloroethane	<1.00	<1.00
1,1,2,2-Tetrachloroethane	<1.00	<1.00
1,1,2-Trichloroethane	<1.00	<1.00
1,1-Dichloroethane	<1.00	<1.00
1,1-Dichloroethene	<2.00	<1.00
1,2,3-Trichloropropane	<1.0	<1.0
1,2-Dibromo-3-Chloropropane	<5.000	<5.000
1,2-Dibromoethane	<1.000	<1.000
1,2-Dichlorobenzene	<1.00	<1.00
1,2-Dichloroethane	<1.0	<1.0
1,2-Dichloropropane	<1.0	<1.0
1,4-Dichlorobenzene	<1.00	<1.00
2-Butanone	<10.00	<10.00
2-Hexanone	<10.00	<5.00
4-Methyl-2-Pentanone	<10.00	<5.00
Acetone	<10.00	<10.00
Acrylonitrile	<5.00	<5.00
Antimony	2.79	
Arsenic	<2.00	<4.00
Barium	241	231
Benzene	<.50	<1.00
Beryllium	<1.000	<4.000
Bromochloromethane	<5.00	<1.00
Bromodichloromethane	<1.0	<1.0
Bromoform	<5.00	<1.00
Bromomethane	<4.00	<1.00
Cadmium	<.200	<.800
Carbon Disulfide	<1.00	<1.00
Carbon Tetrachloride	<2.00	<1.00
Chlorobenzene	<1.00	<1.00
Chlorodibromomethane	<5.00	<1.00
Chloroethane	<4.0	<1.0
Chloroform	<3.00	<1.00
Chloromethane	<3.0	<1.0
Chromium	<5.00	<8.00
cis-1,2-Dichloroethene	<1.00	<1.00
cis-1,3-Dichloropropene	<5.00	<1.00
Cobalt	<.500	<.400
Copper	<5.0	<4.0
Ethylbenzene	<1.00	<1.00
Iodomethane	<10.0	<1.0
Lead	<.327	<4.000
MP-Xylene		
Methylene Bromide	<1.0	<1.0
Methylene Chloride	<5.00	<5.00
Nickel	<5.0	<4.0
o-Xylene		
Selenium	<5.00	<4.00
Silver	<1.000	<4.000
Styrene	<1.00	<1.00
Sulfide		
Tetrachloroethene	<1.00	<1.00
Thallium	<1.000	<2.000
Toluene	<1.00	<1.00
Total Suspended Solids	3.63	
trans-1,2-Dichloroethene	<1.00	<1.00
trans-1,3-Dichloropropene	<5.00	<1.00
trans-1,4-Dichloro-2-Butene	<10.0	<5.0
Trichloroethene	<1.00	<1.00
Trichlorofluoromethane	<4.00	<1.00
Vanadium	<1.45	<20.00
Vinyl Acetate	<10.00	<5.00
Vinyl Chloride	<1.00	<1.00
Xylenes, total	<3.00	<2.00
Zinc	<20.00	<20.00

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-23

Constituents	Units	2/11/2008	4/30/2008	7/9/2008	9/11/2008	12/10/2008	3/3/2009	8/21/2009	3/11/2010
1,1,1,2-Tetrachloroethane	ug/L	<.33	<.33	<.33	<1.00	<1.00	<1.00	<1.00	<5.00
1,1,1-Trichloroethane	ug/L	<.19	<.19	<.19	<1.00	<1.00	<1.00	<1.00	<1.00
1,1,2,2-Tetrachloroethane	ug/L	<.23	<.23	<.23	<1.00	<1.00	<1.00	<1.00	<1.00
1,1,2-Trichloroethane	ug/L	<.37	<.37	<.37	<1.00	<1.00	<1.00	<1.00	<1.00
1,1-Dichloroethane	ug/L	<.19	<.19	<.19	<1.00	<1.00	<1.00	<1.00	<1.00
1,1-Dichloroethene	ug/L	<.37	<.37	<.37	<2.00	<2.00	<2.00	<2.00	<2.00
1,1-Dichloropropene	ug/L								
1,2,3-Trichloropropane	ug/L	<.7	<.7	<.7	<1.0	<1.0	<1.0	<1.0	<2.5
1,2,4,5-Tetrachlorobenzene	ug/L								
1,2,4-Trichlorobenzene	ug/L								
1,2-Dibromo-3-Chloropropane	ug/L	<.860	<.860	<.860	<.860	<.860	<.860	<.498	<.498
1,2-Dibromoethane	ug/L	<.250	<.250	<.250	<.250	<.250	<.250	<.255	<.255
1,2-Dichlorobenzene	ug/L	<.21	<.21	<.21	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-Dichloroethane	ug/L	<.2	<.2	<.2	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane	ug/L	<.4	<.4	<.4	<1.0	<1.0	<1.0	<1.0	<1.0
1,3,5-Trinitrobenzene	ug/L								
1,3-Dichlorobenzene	ug/L								
1,3-Dichloropropane	ug/L								
1,3-Dinitrobenzene	ug/L								
1,4-Dichlorobenzene	ug/L	<.16	<.16	<.16	<1.00	<1.00	<1.00	<1.00	<1.00
1,4-Naphthoquinone	ug/L								
1,4-Phenylenediamine	ug/L								
1-Naphthylamine	ug/L								
2,2-Dichloropropane	ug/L								
2,3,4,6-Tetrachlorophenol	ug/L								
2,4,5-T [2C]	ug/L								
2,4,5-TP [Silvex] [2C]	ug/L								
2,4,5-Trichlorophenol	ug/L								
2,4,6-Trichlorophenol	ug/L								
2,4-D [2C]	ug/L								
2,4-Dichlorophenol	ug/L								
2,4-Dimethylphenol	ug/L								
2,4-Dinitrophenol	ug/L								
2,4-Dinitrotoluene	ug/L								
2,6-Dichlorophenol	ug/L								
2,6-Dinitrotoluene	ug/L								
2-Acetylaminofluorene	ug/L								
2-Butanone	ug/L	<.91	<.91	<.91	<10.00	<10.00	<10.00	<10.00	<10.00
2-Chloronaphthalene	ug/L								
2-Chlorophenol	ug/L								
2-Hexanone	ug/L	<1.76	<1.76	<1.76	<10.00	<10.00	<10.00	<10.00	<10.00
2-Methylnaphthalene	ug/L								
2-Methylphenol	ug/L								
2-Naphthylamine	ug/L								
2-Nitroaniline	ug/L								
2-Nitrophenol	ug/L								
3,3-Dichlorobenzidine	ug/L								
3,3-Dimethylbenzidine	ug/L								
3/4-Methylphenol	ug/L								
3-Chloropropene	ug/L								
3-Methylcholanthrene	ug/L								
3-Nitroaniline	ug/L								
4,4`-DDD	ug/L								
4,4`-DDE	ug/L								
4,4`-DDT	ug/L								
4,6-Dinitro-2-methylphenol	ug/L								
4-Aminobiphenyl	ug/L								
4-Bromophenyl phenyl ether	ug/L								
4-Chloro-3-methylphenol	ug/L								
4-Chloroaniline	ug/L								
4-Chlorophenyl phenyl ether	ug/L								
4-Methyl-2-Pentanone	ug/L	<.31	<.31	<.31	<10.00	<10.00	<10.00	<10.00	<10.00
4-Nitroaniline	ug/L								
4-Nitrophenol	ug/L								
5-Nitro-o-toluidine	ug/L								
7,12-Dimethylbenz [a] anthracene	ug/L								
Acenaphthene	ug/L								
Acenaphthylene	ug/L								
Acetone	ug/L	<4.62	<4.62	<4.62	<10.00	<10.00	<10.00	<10.00	<10.00
Acetonitrile	ug/L								
Acetophenone	ug/L								
Acrolein	ug/L								
Acrylonitrile	ug/L	<1.28	<1.28	<1.28	<10.00	<10.00	<10.00	<10.00	<10.00
Aldrin	ug/L								
alpha-BHC	ug/L								
alpha-Chlordane	ug/L								
Anthracene	ug/L								

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-23

Constituents	8/31/2010	2/16/2011	7/7/2011	10/27/2011	4/26/2012	10/9/2012	2/20/2013	10/3/2013	4/22/2014
1,1,1,2-Tetrachloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1,1-Trichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1,2,2-Tetrachloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1,2-Trichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00
1,1-Dichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1-Dichloroethene	<2.00	<2.00	<2.00	<2.00	<1.00	<2.00	<2.00	<2.00	<2.00
1,1-Dichloropropene			<1			<1			
1,2,3-Trichloropropane	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,4,5-Tetrachlorobenzene			<10.0			<10.0			
1,2,4-Trichlorobenzene			<5			<5			
1,2-Dibromo-3-Chloropropane	<.498	<.120	<10.000	<.120	<.200	<.120	<.120	<.120	<.120
1,2-Dibromoethane	<.255	<.130	<10.000	<.130	<.050	<.130	<.130	<.130	<.130
1,2-Dichlorobenzene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-Dichloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3,5-Trinitrobenzene			<10.0			<10.0			
1,3-Dichlorobenzene			<1			<1			
1,3-Dichloropropane			<1			<1			
1,3-Dinitrobenzene			<10.0			<10.0			
1,4-Dichlorobenzene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,4-Naphthoquinone			<10.0			<10.0			
1,4-Phenylenediamine			<10.0			<10.0			
1-Naphthylamine			<10.0			<10.0			
2,2-Dichloropropane			<4			<4			
2,3,4,6-Tetrachlorophenol			<10.0			<10.0			
2,4,5-T [2C]			<.24			<.43			
2,4,5-TP [Silvex] [2C]			<.24			<.29			
2,4,5-Trichlorophenol			<10.0			<10.0			
2,4,6-Trichlorophenol			<10.0			<10.0			
2,4-D [2C]			<.45			<.47			
2,4-Dichlorophenol			<10.0			<10.0			
2,4-Dimethylphenol			<10.0			<10.0			
2,4-Dinitrophenol			<20.0			<20.0			
2,4-Dinitrotoluene			<10.0			<10.0			
2,6-Dichlorophenol			<10.0			<10.0			
2,6-Dinitrotoluene			<10.0			<10.0			
2-Acetylaminofluorene			<10.0			<10.0			
2-Butanone	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00
2-Chloronaphthalene			<10.0			<10.0			
2-Chlorophenol			<10.0			<10.0			
2-Hexanone	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00
2-Methylnaphthalene			<10.0			<10.0			
2-Methylphenol			<10.0			<10.0			
2-Naphthylamine			<10.0			<10.0			
2-Nitroaniline			<10.0			<10.0			
2-Nitrophenol			<10.0			<10.0			
3,3-Dichlorobenzidine			<10.0			<10.0			
3,3-Dimethylbenzidine			<10.0			<10.0			
3/4-Methylphenol			<10.0			<10.0			
3-Chloropropene			<2			<2			
3-Methylcholanthrene			<10.0			<10.0			
3-Nitroaniline			<10.0			<10.0			
4,4`-DDD			<.0320			<.0320			
4,4`-DDE			<.0320			<.0320			
4,4`-DDT			<.0320			<.0320			
4,6-Dinitro-2-methylphenol			<10.0			<10.0			
4-Aminobiphenyl			<10.0			<10.0			
4-Bromophenyl phenyl ether			<10.0			<10.0			
4-Chloro-3-methylphenol			<10.0			<10.0			
4-Chloroaniline			<10.0			<10.0			
4-Chlorophenyl phenyl ether			<10.0			<10.0			
4-Methyl-2-Pentanone	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00
4-Nitroaniline			<10.0			<10.0			
4-Nitrophenol			<10.0			<10.0			
5-Nitro-o-toluidine			<10.0			<10.0			
7,12-Dimethylbenz [a] anthracene			<10.0			<10.0			
Acenaphthene			<10.0			<10.0			
Acenaphthylene			<10.0			<10.0			
Acetone	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00
Acetonitrile			<10000			<10000			
Acetophenone			<10.0			<10.0			
Acrolein			<10			<10			
Acrylonitrile	<10.00	<10.00	<10.00	<10.00	<5.00	<10.00	<10.00	<10.00	<10.00
Aldrin			<.0320			<.0320			
alpha-BHC			<.0320			<.0320			
alpha-Chlordane						<.032			
Anthracene			<10.0			<10.0			

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-23

Constituents	10/14/2014	5/12/2015	7/29/2015	2/15/2016	10/31/2016	3/27/2017	11/13/2017	6/6/2018	11/26/2018
1,1,1,2-Tetrachloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1,1-Trichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1,2,2-Tetrachloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1,2-Trichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1-Dichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1-Dichloroethene	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00
1,1-Dichloropropene						<1			
1,2,3-Trichloropropane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,4,5-Tetrachlorobenzene						<10.2			
1,2,4-Trichlorobenzene						<5			
1,2-Dibromo-3-Chloropropane	<.120	<.500	<.500	<.500	<.500	<.500	<.500	<.500	<.500
1,2-Dibromoethane	<.130	<.130	<.130	<.130	<.130	<.130	<.130	<.130	<.130
1,2-Dichlorobenzene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-Dichloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3,5-Trinitrobenzene						<10.2			
1,3-Dichlorobenzene						<1			
1,3-Dichloropropane						<1			
1,3-Dinitrobenzene						<10.2			
1,4-Dichlorobenzene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,4-Naphthoquinone						<10.2			
1,4-Phenylenediamine						<10.2			
1-Naphthylamine						<10.2			
2,2-Dichloropropane						<4			
2,3,4,6-Tetrachlorophenol						<10.2			
2,4,5-T [2C]						<1.22			
2,4,5-TP [Silvex] [2C]						<1.22			
2,4,5-Trichlorophenol						<10.2			
2,4,6-Trichlorophenol						<10.2			
2,4-D [2C]						<1.22			
2,4-Dichlorophenol						<10.2			
2,4-Dimethylphenol						<10.2			
2,4-Dinitrophenol						<20.4			
2,4-Dinitrotoluene						<10.2			
2,6-Dichlorophenol						<10.2			
2,6-Dinitrotoluene						<10.2			
2-Acetylaminofluorene						<10.2			
2-Butanone	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00
2-Chloronaphthalene						<10.2			
2-Chlorophenol						<10.2			
2-Hexanone	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00
2-Methylnaphthalene						<10.2			
2-Methylphenol						<10.2			
2-Naphthylamine						<10.2			
2-Nitroaniline						<10.2			
2-Nitrophenol						<10.2			
3,3-Dichlorobenzidine						<51.0			
3,3-Dimethylbenzidine						<10.2			
3/4-Methylphenol						<10.2			
3-Chloropropene						<2			
3-Methylcholanthrene						<10.2			
3-Nitroaniline						<10.2			
4,4`-DDD						<.0320			
4,4`-DDE						<.0320			
4,4`-DDT						<.0320			
4,6-Dinitro-2-methylphenol						<10.2			
4-Aminobiphenyl						<10.2			
4-Bromophenyl phenyl ether						<10.2			
4-Chloro-3-methylphenol						<10.2			
4-Chloroaniline						<10.2			
4-Chlorophenyl phenyl ether						<10.2			
4-Methyl-2-Pentanone	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00
4-Nitroaniline						<10.2			
4-Nitrophenol						<10.2			
5-Nitro-o-toluidine						<10.2			
7,12-Dimethylbenz [a] anthracene						<10.2			
Acenaphthene						<10.2			
Acenaphthylene						<10.2			
Acetone	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00
Acetonitrile						<10000			
Acetophenone						<10.2			
Acrolein						<10			
Acrylonitrile	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00
Aldrin						<.0320			
alpha-BHC						<.0320			
alpha-Chlordane									
Anthracene						<10.2			

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-23

Constituents	3/18/2019	12/2/2019	3/30/2020	11/17/2020	5/6/2021	10/7/2021	4/6/2022	8/23/2022	3/8/2023
1,1,1,2-Tetrachloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1,1-Trichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1,2,2-Tetrachloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1,2-Trichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1-Dichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1-Dichloroethene	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00
1,1-Dichloropropene							<1		
1,2,3-Trichloropropane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,4,5-Tetrachlorobenzene							<10.9		
1,2,4-Trichlorobenzene							<5		
1,2-Dibromo-3-Chloropropane	<1.200	<1.200	<5.000	<5.000	<5.000	<5.000	<5.000	<5.000	<5.000
1,2-Dibromoethane	<.340	<.340	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000
1,2-Dichlorobenzene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-Dichloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3,5-Trinitrobenzene							<10.9		
1,3-Dichlorobenzene							<1		
1,3-Dichloropropane							<1		
1,3-Dinitrobenzene							<10.9		
1,4-Dichlorobenzene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,4-Naphthoquinone							<10.9		
1,4-Phenylenediamine							<10.9		
1-Naphthylamine							<10.9		
2,2-Dichloropropane							<4		
2,3,4,6-Tetrachlorophenol							<10.9		
2,4,5-T [2C]							<1.07		
2,4,5-TP [Silvex] [2C]							<1.07		
2,4,5-Trichlorophenol							<10.9		
2,4,6-Trichlorophenol							<10.9		
2,4-D [2C]							<1.07		
2,4-Dichlorophenol							<10.9		
2,4-Dimethylphenol							<10.9		
2,4-Dinitrophenol							<21.7		
2,4-Dinitrotoluene							<10.9		
2,6-Dichlorophenol							<10.9		
2,6-Dinitrotoluene							<10.9		
2-Acetylaminofluorene							<10.9		
2-Butanone	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00
2-Chloronaphthalene							<10.9		
2-Chlorophenol							<10.9		
2-Hexanone	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00
2-Methylnaphthalene							<10.9		
2-Methylphenol							<10.9		
2-Naphthylamine							<10.9		
2-Nitroaniline							<10.9		
2-Nitrophenol							<10.9		
3,3-Dichlorobenzidine							<10.9		
3,3-Dimethylbenzidine							<10.9		
3/4-Methylphenol							<10.9		
3-Chloropropene							<2		
3-Methylcholanthrene							<10.9		
3-Nitroaniline							<10.9		
4,4`-DDD							<.0667		
4,4`-DDE							<.0667		
4,4`-DDT							<.0667		
4,6-Dinitro-2-methylphenol							<10.9		
4-Aminobiphenyl							<10.9		
4-Bromophenyl phenyl ether							<10.9		
4-Chloro-3-methylphenol							<10.9		
4-Chloroaniline							<10.9		
4-Chlorophenyl phenyl ether							<10.9		
4-Methyl-2-Pentanone	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00
4-Nitroaniline							<10.9		
4-Nitrophenol							<10.9		
5-Nitro-o-toluidine							<10.9		
7,12-Dimethylbenz [a] anthracene							<10.9		
Acenaphthene							<10.9		
Acenaphthylene							<10.9		
Acetone	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00
Acetonitrile							<10000		
Acetophenone							<10.9		
Acrolein							<10		
Acrylonitrile	<10.00	<10.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Aldrin							<.0667		
alpha-BHC							<.0667		
alpha-Chlordane									
Anthracene							<10.9		

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-23

Constituents	9/13/2023	5/29/2024	10/15/2024
1,1,1,2-Tetrachloroethane	<1.00	<1.00	<1.00
1,1,1-Trichloroethane	<1.00	<1.00	<1.00
1,1,2,2-Tetrachloroethane	<1.00	<1.00	<1.00
1,1,2-Trichloroethane	<1.00	<1.00	<1.00
1,1-Dichloroethane	<1.00	<1.00	<1.00
1,1-Dichloroethene	<2.00	<2.00	<1.00
1,1-Dichloropropene			
1,2,3-Trichloropropane	<1.0	<1.0	<1.0
1,2,4,5-Tetrachlorobenzene			
1,2,4-Trichlorobenzene			
1,2-Dibromo-3-Chloropropane	<5.000	<5.000	<5.000
1,2-Dibromoethane	<1.000	<1.000	<1.000
1,2-Dichlorobenzene	<1.00	<1.00	<1.00
1,2-Dichloroethane	<1.0	<1.0	<1.0
1,2-Dichloropropane	<1.0	<1.0	<1.0
1,3,5-Trinitrobenzene			
1,3-Dichlorobenzene			
1,3-Dichloropropane			
1,3-Dinitrobenzene			
1,4-Dichlorobenzene	<1.00	<1.00	<1.00
1,4-Naphthoquinone			
1,4-Phenylenediamine			
1-Naphthylamine			
2,2-Dichloropropane			
2,3,4,6-Tetrachlorophenol			
2,4,5-T [2C]			
2,4,5-TP [Silvex] [2C]			
2,4,5-Trichlorophenol			
2,4,6-Trichlorophenol			
2,4-D [2C]			
2,4-Dichlorophenol			
2,4-Dimethylphenol			
2,4-Dinitrophenol			
2,4-Dinitrotoluene			
2,6-Dichlorophenol			
2,6-Dinitrotoluene			
2-Acetylaminofluorene			
2-Butanone	<10.00	<10.00	<10.00
2-Chloronaphthalene			
2-Chlorophenol			
2-Hexanone	<10.00	<10.00	<5.00
2-Methylnaphthalene			
2-Methylphenol			
2-Naphthylamine			
2-Nitroaniline			
2-Nitrophenol			
3,3-Dichlorobenzidine			
3,3-Dimethylbenzidine			
3/4-Methylphenol			
3-Chloropropene			
3-Methylcholanthrene			
3-Nitroaniline			
4,4`-DDD			
4,4`-DDE			
4,4`-DDT			
4,6-Dinitro-2-methylphenol			
4-Aminobiphenyl			
4-Bromophenyl phenyl ether			
4-Chloro-3-methylphenol			
4-Chloroaniline			
4-Chlorophenyl phenyl ether			
4-Methyl-2-Pentanone	<10.00	<10.00	<5.00
4-Nitroaniline			
4-Nitrophenol			
5-Nitro-o-toluidine			
7,12-Dimethylbenz [a] anthracene			
Acenaphthene			
Acenaphthylene			
Acetone	<10.00	<10.00	<10.00
Acetonitrile			
Acetophenone			
Acrolein			
Acrylonitrile	<5.00	<5.00	<5.00
Aldrin			
alpha-BHC			
alpha-Chlordane			
Anthracene			

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-23

Constituents	Units	2/11/2008	4/30/2008	7/9/2008	9/11/2008	12/10/2008	3/3/2009	8/21/2009	3/11/2010
Antimony	ug/L	<6.00	<6.00	<6.00	<6.00	<6.00	<6.00	<6.00	<6.00
Arsenic	ug/L	4.04	<1.00	3.10	1.88	<1.00	1.45 *	<1.00	<1.00
Barium	ug/L	231.0	163.0	211.0	209.5 *	186.5 *	293.0 *	220.0	209.0
Benzene	ug/L	<.16	<.16	<.16	<.50	<.50	<.50	<.50	<.50
Benzo [a] anthracene	ug/L								
Benzo [a] pyrene	ug/L								
Benzo [b] fluoranthene	ug/L								
Benzo [g,h,i] perylene	ug/L								
Benzo [k] fluoranthene	ug/L								
Benzyl alcohol	ug/L								
Beryllium	ug/L	<1.000	<.028	<1.000	<1.000	<1.000	3.720 *	<1.000	<1.000
beta-BHC	ug/L								
Bis[2-chloroethoxy]methane	ug/L								
Bis[2-chloroethyl]ether	ug/L								
Bis[2-chloroisopropyl]ether	ug/L								
Bis[2-ethylhexyl]phthalate	ug/L								
Bromochloromethane	ug/L	<.76	<.76	<.76	<5.00	<5.00	<5.00	<5.00	<5.00
Bromodichloromethane	ug/L	<.2	<.2	<.2	<1.0	<1.0	<1.0	<1.0	<5.0
Bromoform	ug/L	<.43	<.43	<.43	<5.00	<5.00	<5.00	<5.00	<5.00
Bromomethane	ug/L	<.48	<.48	<.48	<4.00	<4.00	<4.00	<4.00	<4.00
Butyl benzyl phthalate	ug/L								
Cadmium	ug/L	<.500	2.450	<.500	2.847 *	1.330 *	3.370 *	4.100	<.500
Carbon Disulfide	ug/L	<.18	<.18	<.18	<1.00	<1.00	<1.00	<1.00	<1.00
Carbon Tetrachloride	ug/L	<.31	.37	<.31	<2.00	<2.00	<2.00	<2.00	<10.00
Chlordane	ug/L								
Chlorobenzene	ug/L	<.17	<.17	<.17	<1.00	<1.00	<1.00	<1.00	<5.00
Chlorobenzilate	ug/L								
Chlorodibromomethane	ug/L	<.26	<.26	<.26	<5.00	<5.00	<5.00	<5.00	<5.00
Chloroethane	ug/L	<.5	<.5	<.5	<4.0	<4.0	<4.0	<4.0	<4.0
Chloroform	ug/L	<.17	<.17	<.17	<1.00	<2.50	<1.00	<1.00	<1.00
Chloromethane	ug/L	<.2	<.2	<.2	<3.0	<3.0	<3.0	<3.0	<3.0
Chloroprene	ug/L								
Chromium	ug/L	<20.00	<1.73	<20.00	<20.00	<20.00	<20.00	<20.00	<20.00
Chrysene	ug/L								
cis-1,2-Dichloroethene	ug/L	<.37	<.37	<.37	<1.00	<1.00	<1.00	<1.00	<1.00
cis-1,3-Dichloropropene	ug/L	<.23	<.23	<.23	<5.00	<5.00	<5.00	<5.00	<5.00
Cobalt	ug/L	<20.000	<1.400	<20.000	<20.000	<20.000	<20.000	<20.000	2.520
Copper	ug/L	<20.00	<13.10	<20.00	<20.00	<20.00	<20.00	<20.00	<20.00
Cyanide	mg/L								
delta-BHC	ug/L								
Diallate [cis or trans]	ug/L								
Dibenz [a,h] anthracene	ug/L								
Dibenzofuran	ug/L								
Dichlorodifluoromethane	ug/L								
Dieldrin	ug/L								
Diethyl phthalate	ug/L								
Dimethoate	ug/L								
Dimethyl phthalate	ug/L								
Dimethylaminoazobenzene	ug/L								
Di-n-butyl phthalate	ug/L								
Di-n-octyl phthalate	ug/L								
Dinoseb	ug/L								
Diphenylamine	ug/L								
Disulfoton	ug/L								
Endosulfan I	ug/L								
Endosulfan II	ug/L								
Endosulfan sulfate	ug/L								
Endrin	ug/L								
Endrin aldehyde	ug/L								
Ethyl Methacrylate	ug/L								
Ethyl Methanesulfonate	ug/L								
Ethylbenzene	ug/L	<.25	<.25	<.25	<1.00	<1.00	<1.00	<1.00	<1.00
Famphur	ug/L								
Fluoranthene	ug/L								
Fluorene	ug/L								
gamma-BHC [Lindane]	ug/L								
gamma-Chlordane	ug/L								
Heptachlor	ug/L								
Heptachlor Epoxide	ug/L								
Hexachlorobenzene	ug/L								
Hexachlorobutadiene	ug/L								
Hexachlorocyclopentadiene	ug/L								
Hexachloroethane	ug/L								
Hexachloropropene	ug/L								
Indeno [1,2,3-cd] pyrene	ug/L								
Iodomethane	ug/L	<.4	<.4	<.4	<10.0	<10.0	<10.0	<10.0	<10.0
Isobutanol	ug/L								

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-23

Constituents	8/31/2010	2/16/2011	7/7/2011	10/27/2011	4/26/2012	10/9/2012	2/20/2013	10/3/2013	4/22/2014
Antimony	<6.00	<6.00	<6.00	<6.00	<6.00	<6.00	<6.00	<6.00	<6.00
Arsenic	<1.00	<1.00	<1.00	<1.00	6.25 *	<1.00	<1.00	1.22	<1.00
Barium	223.0 *	257.0	242.0	211.0	197.9 *	256.0	239.0	229.0	185.0
Benzene	<.50	<.50	<.50	<.50	<.50	<.50	<.50	<.50	<.50
Benzo [a] anthracene			<10.0			<10.0			
Benzo [a] pyrene			<10.0			<10.0			
Benzo [b] fluoranthene			<10.0			<10.0			
Benzo [g,h,i] perylene			<10.0			<10.0			
Benzo [k] fluoranthene			<10.0			<10.0			
Benzyl alcohol			<10.0			<10.0			
Beryllium	<1.000	1.370	<1.000	<1.000	<4.000	1.050	<1.000	<1.000	<1.000
beta-BHC			<.0320			<.0320			
Bis[2-chloroethoxy]methane			<10.0			<10.0			
Bis[2-chloroethyl]ether			<10.0			<10.0			
Bis[2-chloroisopropyl]ether			<10.0			<10.0			
Bis[2-ethylhexyl]phthalate			<10.0			<10.0			
Bromochloromethane	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Bromodichloromethane	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0
Bromoform	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<1.00	<5.00
Bromomethane	<4.00	<4.00	<4.00	<20.00	<50.00	<5.00	<4.00	4.02	<4.00
Butyl benzyl phthalate			<10.0			<10.0			
Cadmium	<.500	1.550	.730	7.580	1.350 *	<.500	2.340	<1.000	1.100
Carbon Disulfide	<4.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Carbon Tetrachloride	<5.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00
Chlordane			<2.00			<2.00			
Chlorobenzene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Chlorobenzilate			<10.0			<10.0			
Chlorodibromomethane	<10.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Chloroethane	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Chloroform	<1.00	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00
Chloromethane	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
Chloroprene			<1			<1			
Chromium	<20.00	<20.00	<20.00	<20.00	<20.00	<20.00	<20.00	<3.00	<20.00
Chrysene			<10.0			<10.0			
cis-1,2-Dichloroethene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
cis-1,3-Dichloropropene	<10.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Cobalt	4.405 *	4.490	4.840	2.500	7.300 *	2.390	1.500	3.420	<2.410
Copper	<20.00	<20.00	<20.00	<20.00	<20.00	<20.00	<20.00	<3.00	<20.00
Cyanide			<.01			<.01			
delta-BHC			<.0320			<.0320			
Diallate [cis or trans]			<10.0			<10.0			
Dibenz [a,h] anthracene			<10.0			<10.0			
Dibenzofuran			<10.0			<10.0			
Dichlorodifluoromethane			<3			<3			
Dieldrin			<.0320			<.0320			
Diethyl phthalate			<10.0			<10.0			
Dimethoate			<10.0			<10.0			
Dimethyl phthalate			<10.0			<10.0			
Dimethylaminoazobenzene			<10.0			<10.0			
Di-n-butyl phthalate			<10.0			<10.0			
Di-n-octyl phthalate			<10.0			<10.0			
Dinoseb			<10.0			<10.0			
Diphenylamine			<10.0			<10.0			
Disulfoton			<10.0			<10.0			
Endosulfan I			<.0320			<.0320			
Endosulfan II			<.0320			<.0320			
Endosulfan sulfate			<.0320			<.0320			
Endrin			<.0320			<.0320			
Endrin aldehyde			<.0320			<.0320			
Ethyl Methacrylate			<2			<2			
Ethyl Methanesulfonate			<10.0			<10.0			
Ethylbenzene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Famphur			<20.0			<20.0			
Fluoranthene			<10.0			<10.0			
Fluorene			<10.0			<10.0			
gamma-BHC [Lindane]			<.0320			<.0320			
gamma-Chlordane						<.032			
Heptachlor			<.0320			<.0320			
Heptachlor Epoxide			<.0320			<.0320			
Hexachlorobenzene			<10.0			<10.0			
Hexachlorobutadiene			<10.0			<10.0			
Hexachlorocyclopentadiene			<10.0			<10.0			
Hexachloroethane			<10.0			<10.0			
Hexachloropropene			<10.0			<10.0			
Indeno [1,2,3-cd] pyrene			<10.0			<10.0			
Iodomethane	<10.0	<10.0	<20.0	<20.0	<10.0	<10.0	<10.0	<10.0	<10.0
Isobutanol			<10000			<10000			

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-23

Constituents	10/14/2014	5/12/2015	7/29/2015	2/15/2016	10/31/2016	3/27/2017	11/13/2017	6/6/2018	11/26/2018
Antimony	<6.00	<1.00	<1.00 *	<1.00	<1.00	<1.00	<1.00	<3.00	<1.00
Arsenic	<1.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	1.46	<2.00
Barium	243.0	62.9	173.5 *	181.0	175.0	172.0	149.0	174.0	163.0
Benzene	<.50	<.50	<.50	<.50	<.50	<.50	<.50	<.50	<.50
Benzo [a] anthracene						<10.2			
Benzo [a] pyrene						<10.2			
Benzo [b] fluoranthene						<10.2			
Benzo [g,h,i] perylene						<10.2			
Benzo [k] fluoranthene						<10.2			
Benzyl alcohol						<10.2			
Beryllium	<1.000	<1.000	<1.000 *	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000
beta-BHC						<.0320			
Bis[2-chloroethoxy]methane						<10.2			
Bis[2-chloroethyl]ether						<10.2			
Bis[2-chloroisopropyl]ether						<10.2			
Bis[2-ethylhexyl]phthalate						<5.0			
Bromochloromethane	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Bromodichloromethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromoform	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Bromomethane	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<1.00	<4.00	<4.00
Butyl benzyl phthalate						<10.2			
Cadmium	<1.000	2.840	<.500	<.500	<1.000	<.500	<1.000	<.500	<.500
Carbon Disulfide	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Carbon Tetrachloride	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00
Chlordane						<2.00			
Chlorobenzene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Chlorobenzilate						<10.2			
Chlorodibromomethane	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Chloroethane	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Chloroform	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<3.00	<3.00
Chloromethane	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
Chloroprene						<1			
Chromium	<20.00	<5.00	<5.00	<5.00	<1.00	<5.00	<1.00	<5.00	<5.00
Chrysene						<10.2			
cis-1,2-Dichloroethene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
cis-1,3-Dichloropropene	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Cobalt	3.850	<1.000	.356 *	<1.000	<1.000	<.500	<1.000	<1.000	<.500
Copper	<4.00	2.82	<2.00 *	<1.00	<5.00	<5.00	<5.00	<2.00	<5.00
Cyanide						<.01			
delta-BHC						<.0320			
Diallate [cis or trans]						<10.2			
Dibenz [a,h] anthracene						<10.2			
Dibenzofuran						<10.2			
Dichlorodifluoromethane						<3			
Dieldrin						<.0320			
Diethyl phthalate						<10.2			
Dimethoate						<10.2			
Dimethyl phthalate						<10.2			
Dimethylaminoazobenzene						<10.2			
Di-n-butyl phthalate						<10.2			
Di-n-octyl phthalate						<20.4			
Dinoseb						<10.2			
Diphenylamine						<10.2			
Disulfoton						<10.2			
Endosulfan I						<.0320			
Endosulfan II						<.0320			
Endosulfan sulfate						<.0320			
Endrin						<.0320			
Endrin aldehyde						<.0320			
Ethyl Methacrylate						<2			
Ethyl Methanesulfonate						<10.2			
Ethylbenzene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Famphur						<20.4			
Fluoranthene						<10.2			
Fluorene						<10.2			
gamma-BHC [Lindane]						<.0320			
gamma-Chlordane									
Heptachlor						<.0320			
Heptachlor Epoxide						<.0320			
Hexachlorobenzene						<10.2			
Hexachlorobutadiene						<10.2			
Hexachlorocyclopentadiene						<20.4			
Hexachloroethane						<10.2			
Hexachloropropene						<10.2			
Indeno [1,2,3-cd] pyrene						<10.2			
Iodomethane	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Isobutanol						<10000			

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-23

Constituents	3/18/2019	12/2/2019	3/30/2020	11/17/2020	5/6/2021	10/7/2021	4/6/2022	8/23/2022	3/8/2023
Antimony	<1.00	1.63 *	<1.00	<1.00	<2.00	<2.00	<2.00	<2.00	<2.00
Arsenic	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00
Barium	162.0	157.5 *	165.0	140.0	152.5 *	150.0	127.0	148.0	157.0
Benzene	<.50	<.50	<.50	<.50	<.50	<.50	<.50	<.50	<.50
Benzo [a] anthracene							<10.9		
Benzo [a] pyrene							<10.9		
Benzo [b] fluoranthene							<10.9		
Benzo [g,h,i] perylene							<10.9		
Benzo [k] fluoranthene							<10.9		
Benzyl alcohol							<10.9		
Beryllium	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000
beta-BHC							<.0667		
Bis[2-chloroethoxy]methane							<10.9		
Bis[2-chloroethyl]ether							<10.9		
Bis[2-chloroisopropyl]ether							<10.9		
Bis[2-ethylhexyl]phthalate							<10.9		
Bromochloromethane	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Bromodichloromethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromoform	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Bromomethane	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00
Butyl benzyl phthalate							<10.9		
Cadmium	<.500	<1.000 *	<.100	<1.000	<.068 *	<.100	<.100	<.100	<.073
Carbon Disulfide	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Carbon Tetrachloride	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00
Chlordane							<2.08		
Chlorobenzene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Chlorobenzilate							<10.9		
Chlorodibromomethane	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Chloroethane	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Chloroform	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00
Chloromethane	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
Chloroprene							<1		
Chromium	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Chrysene							<10.9		
cis-1,2-Dichloroethene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
cis-1,3-Dichloropropene	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Cobalt	<.500	<1.000 *	<.500	<1.000	<.172 *	<.500	<.500	<.500	<.500
Copper	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Cyanide							<.01		
delta-BHC							<.0667		
Diallate [cis or trans]							<10.9		
Dibenz [a,h] anthracene							<10.9		
Dibenzofuran							<10.9		
Dichlorodifluoromethane							<3		
Dieldrin							<.0667		
Diethyl phthalate							<10.9		
Dimethoate							<10.9		
Dimethyl phthalate							<10.9		
Dimethylaminoazobenzene							<10.9		
Di-n-butyl phthalate							<10.9		
Di-n-octyl phthalate							<21.7		
Dinoseb							<10.9		
Diphenylamine							<10.9		
Disulfoton							<10.9		
Endosulfan I							<.0667		
Endosulfan II							<.0667		
Endosulfan sulfate							<.0667		
Endrin							<.0667		
Endrin aldehyde							<.0667		
Ethyl Methacrylate							<2		
Ethyl Methanesulfonate							<10.9		
Ethylbenzene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Famphur							<10.9		
Fluoranthene							<10.9		
Fluorene							<10.9		
gamma-BHC [Lindane]							<.0667		
gamma-Chlordane									
Heptachlor							<.0667		
Heptachlor Epoxide							<.0667		
Hexachlorobenzene							<10.9		
Hexachlorobutadiene							<10.9		
Hexachlorocyclopentadiene							<10.9		
Hexachloroethane							<10.9		
Hexachloropropene							<10.9		
Indeno [1,2,3-cd] pyrene							<10.9		
Iodomethane	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Isobutanol							<10000		

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-23

Constituents	9/13/2023	5/29/2024	10/15/2024
Antimony	<2.00	<2.00	<2.00
Arsenic	<1.00	<2.00	<4.00
Barium	146.0	158.0 *	23.3
Benzene	<.50	<.50	<1.00
Benzo [a] anthracene			
Benzo [a] pyrene			
Benzo [b] fluoranthene			
Benzo [g,h,i] perylene			
Benzo [k] fluoranthene			
Benzyl alcohol			
Beryllium	<1.000	<1.000	<4.000
beta-BHC			
Bis[2-chloroethoxy]methane			
Bis[2-chloroethyl]ether			
Bis[2-chloroisopropyl]ether			
Bis[2-ethylhexyl]phthalate			
Bromochloromethane	<5.00	<5.00	<1.00
Bromodichloromethane	<1.0	<1.0	<1.0
Bromoform	<5.00	<5.00	<1.00
Bromomethane	<4.00	<4.00	<1.00
Butyl benzyl phthalate			
Cadmium	<.200	<.200	<.800
Carbon Disulfide	<1.00	<1.00	<1.00
Carbon Tetrachloride	<2.00	<2.00	<1.00
Chlordane			
Chlorobenzene	<1.00	<1.00	<1.00
Chlorobenzilate			
Chlorodibromomethane	<5.00	<5.00	<1.00
Chloroethane	<4.0	<4.0	<1.0
Chloroform	<3.00	<3.00	<1.00
Chloromethane	<3.0	<3.0	<1.0
Chloroprene			
Chromium	<5.00	<5.00	<8.00
Chrysene			
cis-1,2-Dichloroethene	<1.00	<1.00	<1.00
cis-1,3-Dichloropropene	<5.00	<5.00	<1.00
Cobalt	<.500	<.500	.400
Copper	<5.00	<5.00	<4.00
Cyanide			
delta-BHC			
Diallate [cis or trans]			
Dibenz [a,h] anthracene			
Dibenzofuran			
Dichlorodifluoromethane			
Dieldrin			
Diethyl phthalate			
Dimethoate			
Dimethyl phthalate			
Dimethylaminoazobenzene			
Di-n-butyl phthalate			
Di-n-octyl phthalate			
Dinoseb			
Diphenylamine			
Disulfoton			
Endosulfan I			
Endosulfan II			
Endosulfan sulfate			
Endrin			
Endrin aldehyde			
Ethyl Methacrylate			
Ethyl Methanesulfonate			
Ethylbenzene	<1.00	<1.00	<1.00
Famphur			
Fluoranthene			
Fluorene			
gamma-BHC [Lindane]			
gamma-Chlordane			
Heptachlor			
Heptachlor Epoxide			
Hexachlorobenzene			
Hexachlorobutadiene			
Hexachlorocyclopentadiene			
Hexachloroethane			
Hexachloropropene			
Indeno [1,2,3-cd] pyrene			
Iodomethane	<10.0	<10.0	<1.0
Isobutanol			

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-23

Constituents	Units	2/11/2008	4/30/2008	7/9/2008	9/11/2008	12/10/2008	3/3/2009	8/21/2009	3/11/2010
Isodrin	ug/L								
Isophorone	ug/L								
Isosafrole	ug/L								
Kepone	ug/L								
Lead	ug/L	5.060	<.370	<4.000	<4.000	<4.000	4.400 *	<4.000	<4.000
MP-Xylene	ug/L								
Mercury	ug/L								
Methacrylonitrile	ug/L								
Methapyrilene	ug/L								
Methoxychlor	ug/L								
Methyl Methacrylate	ug/L								
Methyl Methanesulfonate	ug/L								
Methylene Bromide	ug/L	<.3	<.3	<.3	<1.0	<1.0	<1.0	<1.0	<50.0
Methylene Chloride	ug/L	<.45	<.45	<.45	<5.00	<5.00	<5.00	<5.00	<5.00
Naphthalene	ug/L								
Nickel	ug/L	<50.0	<4.6	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
Nitrobenzene	ug/L								
N-Nitrosodiethylamine	ug/L								
N-Nitrosodimethylamine	ug/L								
N-Nitrosodi-n-butylamine	ug/L								
N-Nitrosodi-n-propylamine	ug/L								
N-Nitrosodiphenylamine	ug/L								
N-Nitrosomethylethylamine	ug/L								
N-Nitrosopiperidine	ug/L								
N-Nitrosopyrrolidine	ug/L								
O,O,O-Triethyl Phosphorothioate	ug/L								
o-Toluidine	ug/L								
o-Xylene	ug/L								
Parathion-Ethyl	ug/L								
Parathion-Methyl	ug/L								
PCB-1016	ug/L								
PCB-1221	ug/L								
PCB-1232	ug/L								
PCB-1242	ug/L								
PCB-1248	ug/L								
PCB-1254	ug/L								
PCB-1260	ug/L								
Pentachlorobenzene	ug/L								
Pentachloronitrobenzene	ug/L								
Pentachlorophenol [2C]	ug/L								
Phenacetin	ug/L								
Phenanthrene	ug/L								
Phenol	ug/L								
Phorate	ug/L								
Pronamide	ug/L								
Propionitrile	ug/L								
Pyrene	ug/L								
Safrole	ug/L								
Selenium	ug/L	<5.00	<1.44	6.21	9.13 *	7.93 *	5.97 *	12.80	9.11
Silver	ug/L	<20.00	<2.61	<20.00	<20.00	<20.00	<20.00	<20.00	<20.00
Styrene	ug/L	<.19	<.19	<.19	<1.00	<1.00	<1.00	<1.00	<5.00
Sulfide	mg/L								
Tetrachloroethene	ug/L	.52	<.38	<.38	<1.00	<1.00	<1.00	<1.00	<5.00
Thallium	ug/L	<2.0	<.7	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Thionazin	ug/L								
Tin	ug/L								
Toluene	ug/L	<.14	<.14	<.14	<1.00	<1.00	<1.00	<1.00	<1.00
Total Suspended Solids	mg/L								
Toxaphene	ug/L								
trans-1,2-Dichloroethene	ug/L	<.31	<.31	<.31	<1.00	<1.00	<1.00	<1.00	<1.00
trans-1,3-Dichloropropene	ug/L	<.17	<.17	<.17	<5.00	<5.00	<5.00	<5.00	<5.00
trans-1,4-Dichloro-2-Butene	ug/L	<1.8	<1.8	<1.8	<10.0	<10.0	<10.0	<10.0	<50.0
Trichloroethene	ug/L	<.24	<.24	<.24	<1.00	<1.00	<1.00	<1.00	<1.00
Trichlorofluoromethane	ug/L	<.26	<.26	<.26	<4.00	<4.00	<4.00	<4.00	<4.00
Vanadium	ug/L	<50.00	<1.60	<50.00	<50.00	<50.00	<50.00	<50.00	<50.00
Vinyl Acetate	ug/L	<1.36	<1.36	<1.36	<2.50	<2.00	<2.00	<2.00	<2.00
Vinyl Chloride	ug/L	<.26	<.26	<.26	<1.00	<1.00	<1.00	<1.00	<1.00
Xylenes, total	ug/L	<.3	<.3	<.3	<3.0	<3.0	<3.0	<3.0	<7.5
Zinc	ug/L	36.60	<5.27	63.60	32.55 *	28.55 *	41.85 *	51.90	47.30

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-23

Constituents	8/31/2010	2/16/2011	7/7/2011	10/27/2011	4/26/2012	10/9/2012	2/20/2013	10/3/2013	4/22/2014
Isodrin			<10.0			<10.0			
Isophorone			<10.0			<10.0			
Isosafrole			<10.0			<10.0			
Kepone			<10.0			<10.0			
Lead	<4.000	<4.000	<4.000	<4.000	6.950 *	<4.000	<4.000	<4.000	<4.000
MP-Xylene						<2	<2		
Mercury			<.200			<.267			
Methacrylonitrile			<1			<2			
Methapyrilene			<10.0			<10.0			
Methoxychlor			<.0320			<.0320			
Methyl Methacrylate			<2			<2			
Methyl Methanesulfonate			<10.0			<10.0			
Methylene Bromide	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methylene Chloride	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Naphthalene			<5			<5			
Nickel	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<10.0	<50.0
Nitrobenzene			<10.0			<10.0			
N-Nitrosodiethylamine			<10.0			<10.0			
N-Nitrosodimethylamine			<10.0			<10.0			
N-Nitrosodi-n-butylamine			<10.0			<10.0			
N-Nitrosodi-n-propylamine			<10.0			<10.0			
N-Nitrosodiphenylamine			<10.0			<10.0			
N-Nitrosomethylethylamine			<10.0			<10.0			
N-Nitrosopiperidine			<10.0			<10.0			
N-Nitrosopyrrolidine			<10.0			<10.0			
O,O,O-Triethyl Phosphorothioate			<10.0			<10.0			
o-Toluidine			<10.0			<10.0			
o-Xylene						<1	<1		
Parathion-Ethyl			<10.0			<10.0			
Parathion-Methyl			<10.0			<10.0			
PCB-1016			<.800			<.800			
PCB-1221			<.800			<.800			
PCB-1232			<.800			<.800			
PCB-1242			<.800			<.800			
PCB-1248			<.800			<.800			
PCB-1254			<.800			<.800			
PCB-1260			<.800			<.800			
Pentachlorobenzene			<10.0			<10.0			
Pentachloronitrobenzene			<10.0			<10.0			
Pentachlorophenol [2C]			<10.0			<10.0			
Phenacetin			<10.0			<10.0			
Phenanthrene			<10.0			<10.0			
Phenol			<10.0			<10.0			
Phorate			<10.0			<10.0			
Pronamide			<10.0			<10.0			
Propionitrile			<10			<10			
Pyrene			<10.0			<10.0			
Safrole			<10.0			<10.0			
Selenium	9.50 *	7.26	7.64	7.33	44.60 *	<5.00	<5.00	<4.00	<1.00
Silver	<20.00	<20.00	<20.00	<20.00	<20.00	<20.00	<20.00	<20.00	<20.00
Styrene	<4.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Sulfide			<.120			<.230			
Tetrachloroethene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Thallium	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Thionazin			<10.0			<10.0			
Tin			<100			<100			
Toluene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Total Suspended Solids									178.00
Toxaphene			<2.00			<2.00			
trans-1,2-Dichloroethene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
trans-1,3-Dichloropropene	<10.00	<5.00	<10.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
trans-1,4-Dichloro-2-Butene	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Trichloroethene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Trichlorofluoromethane	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00
Vanadium	<50.00	<50.00	<50.00	<50.00	<50.00	<50.00	<50.00	<10.00	<5.00
Vinyl Acetate	<2.00	<4.00	<2.00	<2.00	<5.00	<2.00	<2.00	<2.00	<2.00
Vinyl Chloride	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Xylenes, total	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
Zinc	24.75 *	<20.00	<20.00	<20.00	24.40 *	<20.00	41.40	94.50	<40.00

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-23

Constituents	10/14/2014	5/12/2015	7/29/2015	2/15/2016	10/31/2016	3/27/2017	11/13/2017	6/6/2018	11/26/2018
Isodrin						<10.2			
Isophorone						<10.2			
Isosafrole						<10.2			
Kepone						<10.2			
Lead	<3.000	<1.000	.431 *	<1.000	<.500	<.500	<1.000	<1.000	<.500
MP-Xylene									
Mercury						<.200			
Methacrylonitrile						<10			
Methapyrilene						<10.2			
Methoxychlor						<.0320			
Methyl Methacrylate						<2			
Methyl Methanesulfonate						<10.2			
Methylene Bromide	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methylene Chloride	<5.00	<5.00	<3.00 *	<1.00	<1.00	<5.00	<5.00	<5.00	<5.00
Naphthalene						<5			
Nickel	<10.0	<5.0	<3.0 *	<1.0	<5.0	<5.0	<5.0	<1.0	<5.0
Nitrobenzene						<10.2			
N-Nitrosodiethylamine						<10.2			
N-Nitrosodimethylamine						<10.2			
N-Nitrosodi-n-butylamine						<10.2			
N-Nitrosodi-n-propylamine						<10.2			
N-Nitrosodiphenylamine						<10.2			
N-Nitrosomethylethylamine						<10.2			
N-Nitrosopiperidine						<10.2			
N-Nitrosopyrrolidine						<10.2			
O,O,O-Triethyl Phosphorothioate						<10.2			
o-Toluidine						<10.2			
o-Xylene									
Parathion-Ethyl						<10.2			
Parathion-Methyl						<10.2			
PCB-1016						<.851			
PCB-1221						<.851			
PCB-1232						<.851			
PCB-1242						<.851			
PCB-1248						<.851			
PCB-1254						<.851			
PCB-1260						<.851			
Pentachlorobenzene						<10.2			
Pentachloronitrobenzene						<10.2			
Pentachlorophenol [2C]						<10.2			
Phenacetin						<10.2			
Phenanthrene						<10.2			
Phenol						<10.2			
Phorate						<10.2			
Pronamide						<10.2			
Propionitrile						<10			
Pyrene						<10.2			
Safrole						<10.2			
Selenium	<2.00	<5.00	<5.00	<5.00	<2.00	<3.00	<3.00	<3.00	<3.00
Silver	<20.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<.50	<1.00
Styrene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Sulfide						<1.000			
Tetrachloroethene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Thallium	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0
Thionazin						<10.2			
Tin						<5			
Toluene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Total Suspended Solids	385.00	5.63	22.80 *	21.00	17.60	<1.00	5.67	6.00	<1.00
Toxaphene						<2.00			
trans-1,2-Dichloroethene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
trans-1,3-Dichloropropene	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
trans-1,4-Dichloro-2-Butene	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Trichloroethene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Trichlorofluoromethane	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00
Vanadium	<10.00	<1.00	<2.50 *	<2.00	<1.00	<1.00	<1.00	<4.00	<1.00
Vinyl Acetate	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00
Vinyl Chloride	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Xylenes, total	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
Zinc	<20.00	21.20	<10.00	<10.00	<10.00	<20.00	<20.00	<20.00	<20.00

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-23

Constituents	3/18/2019	12/2/2019	3/30/2020	11/17/2020	5/6/2021	10/7/2021	4/6/2022	8/23/2022	3/8/2023
Isodrin							<10.9		
Isophorone							<10.9		
Isosafrole							<10.9		
Kepone							<10.9		
Lead	<.500	<.500	<.500	<1.000	<.385 *	<.500	<.500	<.500	<.500
MP-Xylene									
Mercury							<.200		
Methacrylonitrile							<10		
Methapyrilene							<10.9		
Methoxychlor							<.0667		
Methyl Methacrylate							<2		
Methyl Methanesulfonate							<10.9		
Methylene Bromide	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methylene Chloride	<5.00	<5.00	<10.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Naphthalene							<5		
Nickel	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Nitrobenzene							<10.9		
N-Nitrosodiethylamine							<10.9		
N-Nitrosodimethylamine							<10.9		
N-Nitrosodi-n-butylamine							<10.9		
N-Nitrosodi-n-propylamine							<10.9		
N-Nitrosodiphenylamine							<10.9		
N-Nitrosomethylethylamine							<10.9		
N-Nitrosopiperidine							<10.9		
N-Nitrosopyrrolidine							<10.9		
O,O,O-Triethyl Phosphorothioate							<10.9		
o-Toluidine							<10.9		
o-Xylene									
Parathion-Ethyl							<10.9		
Parathion-Methyl							<10.9		
PCB-1016							<.833		
PCB-1221							<.833		
PCB-1232							<.833		
PCB-1242							<.833		
PCB-1248							<.833		
PCB-1254							<.833		
PCB-1260							<.833		
Pentachlorobenzene							<10.9		
Pentachloronitrobenzene							<10.9		
Pentachlorophenol [2C]							<10.9		
Phenacetin							<10.9		
Phenanthrene							<10.9		
Phenol							<10.9		
Phorate							<10.9		
Pronamide							<10.9		
Propionitrile							<10		
Pyrene							<10.9		
Safrole							<10.9		
Selenium	<2.00	<2.00 *	<3.00	<2.00	<1.76 *	<1.71	<1.60	<5.00	<2.09
Silver	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Styrene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Sulfide							<.781		
Tetrachloroethene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Thallium	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Thionazin							<10.9		
Tin							<5		
Toluene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Total Suspended Solids	<1.00	4.00 *	2.38	17.60	6.07 *	2.75	<1.00	3.32 *	<1.75
Toxaphene							<2.08		
trans-1,2-Dichloroethene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
trans-1,3-Dichloropropene	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
trans-1,4-Dichloro-2-Butene	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Trichloroethene	<1.00	<1.00 *	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Trichlorofluoromethane	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00
Vanadium	<1.00	<2.00 *	<5.00	<3.00	<1.28 *	<5.00	<5.00	<5.00	<5.00
Vinyl Acetate	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00
Vinyl Chloride	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Xylenes, total	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
Zinc	<20.00	<20.00	<20.00	<20.00	<20.00	<20.00	<20.00	<20.00	<20.00

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-23

Constituents	9/13/2023	5/29/2024	10/15/2024
Isodrin			
Isophorone			
Isosafrole			
Kepone			
Lead	<.500	<.500	<4.000
MP-Xylene			
Mercury			
Methacrylonitrile			
Methapyrilene			
Methoxychlor			
Methyl Methacrylate			
Methyl Methanesulfonate			
Methylene Bromide	<1.0	<1.0	<1.0
Methylene Chloride	<5.00	<5.00	<5.00
Naphthalene			
Nickel	<5.0	<5.0	<4.0
Nitrobenzene			
N-Nitrosodiethylamine			
N-Nitrosodimethylamine			
N-Nitrosodi-n-butylamine			
N-Nitrosodi-n-propylamine			
N-Nitrosodiphenylamine			
N-Nitrosomethylethylamine			
N-Nitrosopiperidine			
N-Nitrosopyrrolidine			
O,O,O-Triethyl Phosphorothioate			
o-Toluidine			
o-Xylene			
Parathion-Ethyl			
Parathion-Methyl			
PCB-1016			
PCB-1221			
PCB-1232			
PCB-1242			
PCB-1248			
PCB-1254			
PCB-1260			
Pentachlorobenzene			
Pentachloronitrobenzene			
Pentachlorophenol [2C]			
Phenacetin			
Phenanthrene			
Phenol			
Phorate			
Pronamide			
Propionitrile			
Pyrene			
Safrole			
Selenium	<2.19	<1.50 *	<4.00
Silver	<1.00	<1.00	<4.00
Styrene	<1.00	<1.00	<1.00
Sulfide			
Tetrachloroethene	<1.00	<1.00	<1.00
Thallium	1.5	<1.0	<2.0
Thionazin			
Tin			
Toluene	<1.00	<1.00	<1.00
Total Suspended Solids	<1.13	<1.88	
Toxaphene			
trans-1,2-Dichloroethene	<1.00	<1.00	<1.00
trans-1,3-Dichloropropene	<5.00	<5.00	<1.00
trans-1,4-Dichloro-2-Butene	<10.0	<10.0	<5.0
Trichloroethene	<1.00	<1.00	<1.00
Trichlorofluoromethane	<4.00	<4.00	<1.00
Vanadium	<5.00	<5.00	<20.00
Vinyl Acetate	<10.00	<10.00	<5.00
Vinyl Chloride	<1.00	<1.00	<1.00
Xylenes, total	<3.0	<3.0	<2.0
Zinc	<20.00	29.65 *	<20.00

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-24

Constituents	Units	4/26/2012	5/15/2013	4/22/2014	10/14/2014	5/12/2015	7/29/2015	2/15/2016	10/31/2016
1,1,1,2-Tetrachloroethane	ug/L								
1,1,1-Trichloroethane	ug/L								
1,1,2,2-Tetrachloroethane	ug/L								
1,1,2-Trichloroethane	ug/L								
1,1-Dichloroethane	ug/L								
1,1-Dichloroethene	ug/L								
1,1-Dichloropropene	ug/L								
1,2,3-Trichloropropane	ug/L								
1,2,4,5-Tetrachlorobenzene	ug/L								
1,2,4-Trichlorobenzene	ug/L								
1,2-Dibromo-3-Chloropropane	ug/L								
1,2-Dibromoethane	ug/L								
1,2-Dichlorobenzene	ug/L								
1,2-Dichloroethane	ug/L								
1,2-Dichloropropane	ug/L								
1,3,5-Trinitrobenzene	ug/L								
1,3-Dichlorobenzene	ug/L								
1,3-Dichloropropane	ug/L								
1,3-Dinitrobenzene	ug/L								
1,4-Dichlorobenzene	ug/L								
1,4-Naphthoquinone	ug/L								
1,4-Phenylenediamine	ug/L								
1-Naphthylamine	ug/L								
2,2-Dichloropropane	ug/L								
2,3,4,6-Tetrachlorophenol	ug/L								
2,4,5-T [2C]	ug/L								
2,4,5-TP [Silvex] [2C]	ug/L								
2,4,5-Trichlorophenol	ug/L								
2,4,6-Trichlorophenol	ug/L								
2,4-D [2C]	ug/L								
2,4-Dichlorophenol	ug/L								
2,4-Dimethylphenol	ug/L								
2,4-Dinitrophenol	ug/L								
2,4-Dinitrotoluene	ug/L								
2,6-Dichlorophenol	ug/L								
2,6-Dinitrotoluene	ug/L								
2-Acetylaminofluorene	ug/L								
2-Butanone	ug/L								
2-Chloronaphthalene	ug/L								
2-Chlorophenol	ug/L								
2-Hexanone	ug/L								
2-Methylnaphthalene	ug/L								
2-Methylphenol	ug/L								
2-Naphthylamine	ug/L								
2-Nitroaniline	ug/L								
2-Nitrophenol	ug/L								
3,3-Dichlorobenzidine	ug/L								
3,3-Dimethylbenzidine	ug/L								
3/4-Methylphenol	ug/L								
3-Chloropropene	ug/L								
3-Methylcholanthrene	ug/L								
3-Nitroaniline	ug/L								
4,4`-DDD	ug/L								
4,4`-DDE	ug/L								
4,4`-DDT	ug/L								
4,6-Dinitro-2-methylphenol	ug/L								
4-Aminobiphenyl	ug/L								
4-Bromophenyl phenyl ether	ug/L								
4-Chloro-3-methylphenol	ug/L								
4-Chloroaniline	ug/L								
4-Chlorophenyl phenyl ether	ug/L								
4-Methyl-2-Pentanone	ug/L								
4-Nitroaniline	ug/L								
4-Nitrophenol	ug/L								
5-Nitro-o-toluidine	ug/L								
7,12-Dimethylbenz [a] anthracene	ug/L								
Acenaphthene	ug/L								
Acenaphthylene	ug/L								
Acetone	ug/L								
Acetonitrile	ug/L								
Acetophenone	ug/L								
Acrolein	ug/L								
Acrylonitrile	ug/L								
Aldrin	ug/L								
alpha-BHC	ug/L								
Anthracene	ug/L								
Antimony	ug/L								

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-24

Constituents	3/27/2017	11/13/2017	6/6/2018	11/26/2018	3/18/2019	12/2/2019	3/30/2020	11/17/2020	5/6/2021
1,1,1,2-Tetrachloroethane									
1,1,1-Trichloroethane									
1,1,2,2-Tetrachloroethane									
1,1,2-Trichloroethane									
1,1-Dichloroethane									
1,1-Dichloroethene									
1,1-Dichloropropene									
1,2,3-Trichloropropane									
1,2,4,5-Tetrachlorobenzene									
1,2,4-Trichlorobenzene									
1,2-Dibromo-3-Chloropropane									
1,2-Dibromoethane									
1,2-Dichlorobenzene									
1,2-Dichloroethane									
1,2-Dichloropropane									
1,3,5-Trinitrobenzene									
1,3-Dichlorobenzene									
1,3-Dichloropropane									
1,3-Dinitrobenzene									
1,4-Dichlorobenzene									
1,4-Naphthoquinone									
1,4-Phenylenediamine									
1-Naphthylamine									
2,2-Dichloropropane									
2,3,4,6-Tetrachlorophenol									
2,4,5-T [2C]									
2,4,5-TP [Silvex] [2C]									
2,4,5-Trichlorophenol									
2,4,6-Trichlorophenol									
2,4-D [2C]									
2,4-Dichlorophenol									
2,4-Dimethylphenol									
2,4-Dinitrophenol									
2,4-Dinitrotoluene									
2,6-Dichlorophenol									
2,6-Dinitrotoluene									
2-Acetylaminofluorene									
2-Butanone									
2-Chloronaphthalene									
2-Chlorophenol									
2-Hexanone									
2-Methylnaphthalene									
2-Methylphenol									
2-Naphthylamine									
2-Nitroaniline									
2-Nitrophenol									
3,3-Dichlorobenzidine									
3,3-Dimethylbenzidine									
3/4-Methylphenol									
3-Chloropropene									
3-Methylcholanthrene									
3-Nitroaniline									
4,4`-DDD									
4,4`-DDE									
4,4`-DDT									
4,6-Dinitro-2-methylphenol									
4-Aminobiphenyl									
4-Bromophenyl phenyl ether									
4-Chloro-3-methylphenol									
4-Chloroaniline									
4-Chlorophenyl phenyl ether									
4-Methyl-2-Pentanone									
4-Nitroaniline									
4-Nitrophenol									
5-Nitro-o-toluidine									
7,12-Dimethylbenz [a] anthracene									
Acenaphthene									
Acenaphthylene									
Acetone									
Acetonitrile									
Acetophenone									
Acrolein									
Acrylonitrile									
Aldrin									
alpha-BHC									
Anthracene									
Antimony									

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-24

Constituents	10/7/2021	4/6/2022	7/8/2022	8/23/2022	9/29/2022	3/8/2023	9/13/2023	5/29/2024	10/15/2024
1,1,1,2-Tetrachloroethane		<1		<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane		<1		<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane		<1		<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane		<1		<1	<1	<1	<1	<1	<1
1,1-Dichloroethane		<.563		<.455	<.426	<.394	<.415	<.286	<1.000
1,1-Dichloroethene		<2		<2	<2	<2	<2	<2	<1
1,1-Dichloropropene					<1	<1			
1,2,3-Trichloropropane		<1		<1	<1	<1	<1	<1	<1
1,2,4,5-Tetrachlorobenzene					<10	<10			
1,2,4-Trichlorobenzene					<5	<5			
1,2-Dibromo-3-Chloropropane		<5		<5	<5	<5	<5	<5	<5
1,2-Dibromoethane		<1		<1	<1	<1	<1	<1	<1
1,2-Dichlorobenzene		<1		<1	<1	<1	<1	<1	<1
1,2-Dichloroethane		<1		<1	<1	<1	<1	<1	<1
1,2-Dichloropropane		<1		<1	<1	<1	<1	<1	<1
1,3,5-Trinitrobenzene					<10	<10			
1,3-Dichlorobenzene					<1	<1			
1,3-Dichloropropane					<1	<1			
1,3-Dinitrobenzene					<10	<10			
1,4-Dichlorobenzene		<1		<1	<1	<1	<1	<1	<1
1,4-Naphthoquinone					<10	<10			
1,4-Phenylenediamine					<10	<10			
1-Naphthylamine					<10	<10			
2,2-Dichloropropane					<4	<4			
2,3,4,6-Tetrachlorophenol					<10	<10			
2,4,5-T [2C]					<.5	<.5			
2,4,5-TP [Silvex] [2C]					<.5	<.5			
2,4,5-Trichlorophenol					<10	<10			
2,4,6-Trichlorophenol					<10	<10			
2,4-D [2C]					<2	<2			
2,4-Dichlorophenol					<10	<10			
2,4-Dimethylphenol					<10	<10			
2,4-Dinitrophenol					<20	<20			
2,4-Dinitrotoluene					<10	<10			
2,6-Dichlorophenol					<10	<10			
2,6-Dinitrotoluene					<10	<10			
2-Acetylaminofluorene					<10	<10			
2-Butanone		<10		<10	<10	<10	<10	<10	<10
2-Chloronaphthalene					<10	<10			
2-Chlorophenol					<10	<10			
2-Hexanone		<10		<10	<10	<10	<10	<10	<5
2-Methylnaphthalene					<10.000	<.698			
2-Methylphenol					<10	<10			
2-Naphthylamine					<10	<10			
2-Nitroaniline					<10	<10			
2-Nitrophenol					<10	<10			
3,3-Dichlorobenzidine					<10	<10			
3,3-Dimethylbenzidine					<10	<10			
3/4-Methylphenol					<10	<10			
3-Chloropropene					<2	<2			
3-Methylcholanthrene					<10	<10			
3-Nitroaniline					<10	<10			
4,4`-DDD					<.0653	<.0640			
4,4`-DDE					<.0653	<.0640			
4,4`-DDT					<.0653	<.0640			
4,6-Dinitro-2-methylphenol					<10	<10			
4-Aminobiphenyl					<10	<10			
4-Bromophenyl phenyl ether					<10	<10			
4-Chloro-3-methylphenol					<10	<10			
4-Chloroaniline					<10	<10			
4-Chlorophenyl phenyl ether					<10	<10			
4-Methyl-2-Pentanone		<10		<10	<10	<10	<10	<10	<5
4-Nitroaniline					<10	<10			
4-Nitrophenol					<10	<10			
5-Nitro-o-toluidine					<10	<10			
7,12-Dimethylbenz [a] anthracene					<10	<10			
Acenaphthene					<10	<10			
Acenaphthylene					<10	<10			
Acetone		<10		<10	<10	<10	<10	<10	<10
Acetonitrile					<10000	<10000			
Acetophenone					<10	<10			
Acrolein					<10	<10			
Acrylonitrile		<5		<5	<5	<5	<5	<5	<5
Aldrin					<.0653	<.0640			
alpha-BHC					<.0653	<.0640			
Anthracene					<10	<10			
Antimony		<2		<2	<2	<2	<2	<2	<2

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-24

Constituents	Units	4/26/2012	5/15/2013	4/22/2014	10/14/2014	5/12/2015	7/29/2015	2/15/2016	10/31/2016
Arsenic	ug/L	58.100			26.600	2.600	<2.000	6.190	<.828
Barium	ug/L	595					662	688	151
Benzene	ug/L								
Benzo [a] anthracene	ug/L								
Benzo [a] pyrene	ug/L								
Benzo [b] fluoranthene	ug/L								
Benzo [g,h,i] perylene	ug/L								
Benzo [k] fluoranthene	ug/L								
Benzyl alcohol	ug/L								
Beryllium	ug/L								
beta-BHC	ug/L								
Bis[2-chloroethoxy]methane	ug/L								
Bis[2-chloroethyl]ether	ug/L								
Bis[2-chloroisopropyl]ether	ug/L								
Bis[2-ethylhexyl]phthalate	ug/L								
Bromochloromethane	ug/L								
Bromodichloromethane	ug/L								
Bromoform	ug/L								
Bromomethane	ug/L								
Butyl benzyl phthalate	ug/L								
Cadmium	ug/L								
Carbon Disulfide	ug/L								
Carbon Tetrachloride	ug/L								
Chlordane	ug/L								
Chlorobenzene	ug/L								
Chlorobenzilate	ug/L								
Chlorodibromomethane	ug/L								
Chloroethane	ug/L								
Chloroform	ug/L								
Chloromethane	ug/L								
Chloroprene	ug/L								
Chromium	ug/L								
Chrysene	ug/L								
cis-1,2-Dichloroethene	ug/L								
cis-1,3-Dichloropropene	ug/L								
Cobalt	ug/L	42.900							
Copper	ug/L								
Cyanide	mg/L								
delta-BHC	ug/L								
Diallate [cis or trans]	ug/L								
Dibenz [a,h] anthracene	ug/L								
Dibenzofuran	ug/L								
Dichlorodifluoromethane	ug/L								
Dieldrin	ug/L								
Diethyl phthalate	ug/L								
Dimethoate	ug/L								
Dimethyl phthalate	ug/L								
Dimethylaminoazobenzene	ug/L								
Di-n-butyl phthalate	ug/L								
Di-n-octyl phthalate	ug/L								
Dinoseb	ug/L								
Diphenylamine	ug/L								
Disulfoton	ug/L								
Endosulfan I	ug/L								
Endosulfan II	ug/L								
Endosulfan sulfate	ug/L								
Endrin	ug/L								
Endrin aldehyde	ug/L								
Ethyl Methacrylate	ug/L								
Ethyl Methanesulfonate	ug/L								
Ethylbenzene	ug/L								
Famphur	ug/L								
Fluoranthene	ug/L								
Fluorene	ug/L								
gamma-BHC [Lindane]	ug/L								
Heptachlor	ug/L								
Heptachlor Epoxide	ug/L								
Hexachlorobenzene	ug/L								
Hexachlorobutadiene	ug/L								
Hexachlorocyclopentadiene	ug/L								
Hexachloroethane	ug/L								
Hexachloropropene	ug/L								
Indeno [1,2,3-cd] pyrene	ug/L								
Iodomethane	ug/L								
Isobutanol	ug/L								
Isodrin	ug/L								
Isophorone	ug/L								

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-24

Constituents	3/27/2017	11/13/2017	6/6/2018	11/26/2018	3/18/2019	12/2/2019	3/30/2020	11/17/2020	5/6/2021
Arsenic	<2.000	<.618	1.540	<.623	<2.000	<2.000	<.975	2.860	<1.980
Barium	172	198	259	200			761	896	735
Benzene									
Benzo [a] anthracene									
Benzo [a] pyrene									
Benzo [b] fluoranthene									
Benzo [g,h,i] perylene									
Benzo [k] fluoranthene									
Benzyl alcohol									
Beryllium									
beta-BHC									
Bis[2-chloroethoxy]methane									
Bis[2-chloroethyl]ether									
Bis[2-chloroisopropyl]ether									
Bis[2-ethylhexyl]phthalate									
Bromochloromethane									
Bromodichloromethane									
Bromoform									
Bromomethane									
Butyl benzyl phthalate									
Cadmium									
Carbon Disulfide									
Carbon Tetrachloride									
Chlordane									
Chlorobenzene									
Chlorobenzilate									
Chlorodibromomethane									
Chloroethane									
Chloroform									
Chloromethane									
Chloroprene									
Chromium									
Chrysene									
cis-1,2-Dichloroethene									
cis-1,3-Dichloropropene									
Cobalt					<.262		.880		
Copper									
Cyanide									
delta-BHC									
Diallate [cis or trans]									
Dibenz [a,h] anthracene									
Dibenzofuran									
Dichlorodifluoromethane									
Dieldrin									
Diethyl phthalate									
Dimethoate									
Dimethyl phthalate									
Dimethylaminoazobenzene									
Di-n-butyl phthalate									
Di-n-octyl phthalate									
Dinoseb									
Diphenylamine									
Disulfoton									
Endosulfan I									
Endosulfan II									
Endosulfan sulfate									
Endrin									
Endrin aldehyde									
Ethyl Methacrylate									
Ethyl Methanesulfonate									
Ethylbenzene									
Famphur									
Fluoranthene									
Fluorene									
gamma-BHC [Lindane]									
Heptachlor									
Heptachlor Epoxide									
Hexachlorobenzene									
Hexachlorobutadiene									
Hexachlorocyclopentadiene									
Hexachloroethane									
Hexachloropropene									
Indeno [1,2,3-cd] pyrene									
Iodomethane									
Isobutanol									
Isodrin									
Isophorone									

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-24

Constituents	10/7/2021	4/6/2022	7/8/2022	8/23/2022	9/29/2022	3/8/2023	9/13/2023	5/29/2024	10/15/2024
Arsenic	2.090	<.893		<1.110	<1.390	<1.270	<1.420	<.767	9.900
Barium	785	702	679	774	834	819	712	581	700
Benzene		<.5		<.5	<.5	<.5	<.5	<.5	<1.0
Benzo [a] anthracene					<10	<10			
Benzo [a] pyrene					<10	<10			
Benzo [b] fluoranthene					<10	<10			
Benzo [g,h,i] perylene					<10	<10			
Benzo [k] fluoranthene					<10	<10			
Benzyl alcohol					<10	<10			
Beryllium		<1		<1	<1	<1	<1	<1	<4
beta-BHC					<.0653	<.0640			
Bis[2-chloroethoxy]methane					<10	<10			
Bis[2-chloroethyl]ether					<10	<10			
Bis[2-chloroisopropyl]ether					<10	<10			
Bis[2-ethylhexyl]phthalate					<10	<10			
Bromochloromethane		<5		<5	<5	<5	<5	<5	<1
Bromodichloromethane		<1		<1	<1	<1	<1	<1	<1
Bromoform		<5		<5	<5	<5	<5	<5	<1
Bromomethane		<4		<4	<4	<4	<4	<4	<1
Butyl benzyl phthalate					<10	<10			
Cadmium		.944	.696	.485	.417	.692	.776	1.170	1.100
Carbon Disulfide		<1		<1	<1	<1	<1	<1	<1
Carbon Tetrachloride		<2		<2	<2	<2	<2	<2	<1
Chlordane					<2.04	<2.00			
Chlorobenzene		<.480		1.040	<.967	<.911	<.499	<1.000	<1.000
Chlorobenzilate					<10	<10			
Chlorodibromomethane		<5		<5	<5	<5	<5	<5	<1
Chloroethane		<4		<4	<4	<4	<4	<4	<1
Chloroform		<3		<3	<3	<3	<3	<3	<1
Chloromethane		<3		<3	<3	<3	<3	<3	<1
Chloroprene					<1	<1			
Chromium		<5		<5	<5	<5	<5	<5	<8
Chrysene					<10	<10			
cis-1,2-Dichloroethene		<1		<1	<1	<1	<1	<1	<1
cis-1,3-Dichloropropene		<5		<5	<5	<5	<5	<5	<1
Cobalt		3.130	3.660	4.230	4.160	2.830	3.230	2.220	4.300
Copper		<5.0		<5.0	<5.0	<5.0	<5.0	<5.0	4.6
Cyanide					<.01	<.01			
delta-BHC					<.0653	<.0640			
Diallate [cis or trans]					<10	<10			
Dibenz [a,h] anthracene					<10	<10			
Dibenzofuran					<10	<10			
Dichlorodifluoromethane					<3	<3			
Dieldrin					<.0653	<.0640			
Diethyl phthalate					<10	<10			
Dimethoate					<10	<10			
Dimethyl phthalate					<10	<10			
Dimethylaminoazobenzene					<10	<10			
Di-n-butyl phthalate					<10	<10			
Di-n-octyl phthalate					<20	<20			
Dinoseb					<10	<10			
Diphenylamine					<10	<10			
Disulfoton					<10	<10			
Endosulfan I					<.0653	<.0640			
Endosulfan II					<.0653	<.0640			
Endosulfan sulfate					<.0653	<.0640			
Endrin					<.0653	<.0640			
Endrin aldehyde					<.0653	<.0640			
Ethyl Methacrylate					<2	<2			
Ethyl Methanesulfonate					<10	<10			
Ethylbenzene		<1		<1	<1	<1	<1	<1	<1
Famphur					<10	<10			
Fluoranthene					<10	<10			
Fluorene					<10	<10			
gamma-BHC [Lindane]					<.0653	<.0640			
Heptachlor					<.0653	<.0640			
Heptachlor Epoxide					<.0653	<.0640			
Hexachlorobenzene					<10	<10			
Hexachlorobutadiene					<10	<10			
Hexachlorocyclopentadiene					<10	<10			
Hexachloroethane					<10	<10			
Hexachloropropene					<10	<10			
Indeno [1,2,3-cd] pyrene					<10	<10			
Iodomethane		<10		<10	<10	<10	<10	<10	<1
Isobutanol					<10000	<10000			
Isodrin					<10	<10			
Isophorone					<10	<10			

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-24

Constituents	Units	4/26/2012	5/15/2013	4/22/2014	10/14/2014	5/12/2015	7/29/2015	2/15/2016	10/31/2016
Isosafrole	ug/L								
Kepone	ug/L								
Lead	ug/L								
Mercury	ug/L								
Methacrylonitrile	ug/L								
Methapyrilene	ug/L								
Methoxychlor	ug/L								
Methyl Methacrylate	ug/L								
Methyl Methanesulfonate	ug/L								
Methylene Bromide	ug/L								
Methylene Chloride	ug/L								
Naphthalene	ug/L								
Nickel	ug/L		<50.00				11.70	28.00	<3.55
Nitrobenzene	ug/L								
N-Nitrosodiethylamine	ug/L								
N-Nitrosodimethylamine	ug/L								
N-Nitrosodi-n-butylamine	ug/L								
N-Nitrosodi-n-propylamine	ug/L								
N-Nitrosodiphenylamine	ug/L								
N-Nitrosomethylethylamine	ug/L								
N-Nitrosopiperidine	ug/L								
N-Nitrosopyrrolidine	ug/L								
O,O,O-Triethyl Phosphorothioate	ug/L								
o-Toluidine	ug/L								
Parathion-Ethyl	ug/L								
Parathion-Methyl	ug/L								
PCB-1016	ug/L								
PCB-1221	ug/L								
PCB-1232	ug/L								
PCB-1242	ug/L								
PCB-1248	ug/L								
PCB-1254	ug/L								
PCB-1260	ug/L								
Pentachlorobenzene	ug/L								
Pentachloronitrobenzene	ug/L								
Pentachlorophenol [2C]	ug/L								
Phenacetin	ug/L								
Phenanthrene	ug/L								
Phenol	ug/L								
Phorate	ug/L								
Pronamide	ug/L								
Propionitrile	ug/L								
Pyrene	ug/L								
Safrole	ug/L								
Selenium	ug/L								
Silver	ug/L								
Styrene	ug/L								
Sulfide	mg/L		<1						
Tetrachloroethene	ug/L								
Thallium	ug/L								
Thionazin	ug/L								
Tin	ug/L								
Toluene	ug/L								
Total Suspended Solids	mg/L			93300.000	5780.000	177.000	118.000	120.000	<1.880
Toxaphene	ug/L								
trans-1,2-Dichloroethene	ug/L								
trans-1,3-Dichloropropene	ug/L								
trans-1,4-Dichloro-2-Butene	ug/L								
Trichloroethene	ug/L								
Trichlorofluoromethane	ug/L								
Vanadium	ug/L								
Vinyl Acetate	ug/L								
Vinyl Chloride	ug/L								
Xylenes, total	ug/L								
Zinc	ug/L								

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-24

Constituents	3/27/2017	11/13/2017	6/6/2018	11/26/2018	3/18/2019	12/2/2019	3/30/2020	11/17/2020	5/6/2021
Isosafrole									
Kepone									
Lead									
Mercury									
Methacrylonitrile									
Methapyrilene									
Methoxychlor									
Methyl Methacrylate									
Methyl Methanesulfonate									
Methylene Bromide									
Methylene Chloride									
Naphthalene									
Nickel	<3.02	<3.66	5.55	<2.72					
Nitrobenzene									
N-Nitrosodiethylamine									
N-Nitrosodimethylamine									
N-Nitrosodi-n-butylamine									
N-Nitrosodi-n-propylamine									
N-Nitrosodiphenylamine									
N-Nitrosomethylethylamine									
N-Nitrosopiperidine									
N-Nitrosopyrrolidine									
O,O,O-Triethyl Phosphorothioate									
o-Toluidine									
Parathion-Ethyl									
Parathion-Methyl									
PCB-1016									
PCB-1221									
PCB-1232									
PCB-1242									
PCB-1248									
PCB-1254									
PCB-1260									
Pentachlorobenzene									
Pentachloronitrobenzene									
Pentachlorophenol [2C]									
Phenacetin									
Phenanthrene									
Phenol									
Phorate									
Pronamide									
Propionitrile									
Pyrene									
Safrole									
Selenium									
Silver									
Styrene									
Sulfide									
Tetrachloroethene									
Thallium									
Thionazin									
Tin									
Toluene									
Total Suspended Solids	<1.880	<1.880	<1.880	<.875	<1.630	<1.250	<.750	46.400	18.500
Toxaphene									
trans-1,2-Dichloroethene									
trans-1,3-Dichloropropene									
trans-1,4-Dichloro-2-Butene									
Trichloroethene									
Trichlorofluoromethane									
Vanadium									
Vinyl Acetate									
Vinyl Chloride									
Xylenes, total									
Zinc									

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-24

Constituents	10/7/2021	4/6/2022	7/8/2022	8/23/2022	9/29/2022	3/8/2023	9/13/2023	5/29/2024	10/15/2024
Isosafrole					<10	<10			
Kepone					<10	<10			
Lead		<.5		<.5	<.5	<.5	<.5	<.5	<4.0
Mercury					<.2	<.2			
Methacrylonitrile					<10	<10			
Methapyrilene					<10	<10			
Methoxychlor					<.0653	<.0640			
Methyl Methacrylate					<2	<2			
Methyl Methanesulfonate					<10	<10			
Methylene Bromide		<1		<1	<1	<1	<1	<1	<1
Methylene Chloride		<5		<5	<5	<5	<5	<5	<5
Naphthalene					<5	<5			
Nickel		32.30	29.00	30.60	29.10	30.10	23.90	30.50	32.70
Nitrobenzene					<10	<10			
N-Nitrosodiethylamine					<10	<10			
N-Nitrosodimethylamine					<10	<10			
N-Nitrosodi-n-butylamine					<10	<10			
N-Nitrosodi-n-propylamine					<10	<10			
N-Nitrosodiphenylamine					<10	<10			
N-Nitrosomethylethylamine					<10	<10			
N-Nitrosopiperidine					<10	<10			
N-Nitrosopyrrolidine					<10	<10			
O,O,O-Triethyl Phosphorothioate					<10	<10			
o-Toluidine					<10	<10			
Parathion-Ethyl					<10	<10			
Parathion-Methyl					<10	<10			
PCB-1016					<.816	<.800			
PCB-1221					<.816	<.800			
PCB-1232					<.816	<.800			
PCB-1242					<.816	<.800			
PCB-1248					<.816	<.800			
PCB-1254					<.816	<.800			
PCB-1260					<.816	<.800			
Pentachlorobenzene					<10	<10			
Pentachloronitrobenzene					<10	<10			
Pentachlorophenol [2C]					<10	<10			
Phenacetin					<10	<10			
Phenanthrene					<10	<10			
Phenol					<10	<10			
Phorate					<10	<10			
Pronamide					<10	<10			
Propionitrile					<10	<10			
Pyrene					<10	<10			
Safrole					<10	<10			
Selenium		<5		<5	<5	<5	<5	<5	<4
Silver		<1		<1	<1	<1	<1	<1	<4
Styrene		<1		<1	<1	<1	<1	<1	<1
Sulfide					<1	<1			
Tetrachloroethene		<1		<1	<1	<1	<1	<1	<1
Thallium		<1		<1	<1	<1	<1	<1	<2
Thionazin					<10	<10			
Tin					<5	<5			
Toluene		<1		<1	<1	<1	<1	<1	<1
Total Suspended Solids	2.500	<1.500	4.500	<1.630	2.630	<1.630	45.000	4.750	
Toxaphene					<2.04	<2.00			
trans-1,2-Dichloroethene		<1		<1	<1	<1	<1	<1	<1
trans-1,3-Dichloropropene		<5		<5	<5	<5	<5	<5	<1
trans-1,4-Dichloro-2-Butene		<10		<10	<10	<10	<10	<10	<5
Trichloroethene		<1		<1	<1	<1	<1	<1	<1
Trichlorofluoromethane		<4		<4	<4	<4	<4	<4	<1
Vanadium		<5		<5	<5	<5	<5	<5	<20
Vinyl Acetate		<10		<10	<10	<10	<10	<10	<5
Vinyl Chloride		<1		<1	<1	<1	<1	<1	<1
Xylenes, total		<3		<3	<3	<3	<3	<3	<2
Zinc		<20		<20	<20	<20	<20	<20	<20

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-36

Constituents	Units	8/21/2009	12/15/2009	2/18/2010	3/11/2010	5/27/2010	8/31/2010	2/16/2011	7/7/2011
1,1,1,2-Tetrachloroethane	ug/L	<1	<1	<2	<5	<4	<1	<1	<1
1,1,1-Trichloroethane	ug/L	<1	<1	<1	<1	<4	<1	<1	<1
1,1,2,2-Tetrachloroethane	ug/L	<1	<1	<2	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethene	ug/L	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloropropene	ug/L								<1
1,2,3-Trichloropropane	ug/L	<1.0	<1.0	<2.0	<2.5	<1.0	<1.0	<1.0	<2.0
1,2,4,5-Tetrachlorobenzene	ug/L								<10
1,2,4-Trichlorobenzene	ug/L								<5
1,2-Dibromo-3-Chloropropane	ug/L	<.498	<.498	<.498	<.498	<.498	<.498	<.120	<10.000
1,2-Dibromoethane	ug/L	<.255	<.255	<.255	<.255	<.255	<.255	<.130	<10.000
1,2-Dichlorobenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloropropane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trinitrobenzene	ug/L								<10
1,3-Dichlorobenzene	ug/L								<1
1,3-Dichloropropane	ug/L								<1
1,3-Dinitrobenzene	ug/L								<10
1,4-Dichlorobenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1
1,4-Naphthoquinone	ug/L								<10
1,4-Phenylenediamine	ug/L								<10
1-Naphthylamine	ug/L								<10
2,2-Dichloropropane	ug/L								<4
2,3,4,6-Tetrachlorophenol	ug/L								<10
2,4,5-T [2C]	ug/L								<.24
2,4,5-TP [Silvex] [2C]	ug/L								<.24
2,4,5-Trichlorophenol	ug/L								<10
2,4,6-Trichlorophenol	ug/L								<10
2,4-D [2C]	ug/L								<.45
2,4-Dichlorophenol	ug/L								<10
2,4-Dimethylphenol	ug/L								<10
2,4-Dinitrophenol	ug/L								<20
2,4-Dinitrotoluene	ug/L								<10
2,6-Dichlorophenol	ug/L								<10
2,6-Dinitrotoluene	ug/L								<10
2-Acetylaminofluorene	ug/L								<10
2-Butanone	ug/L	<10	<10	<10	<10	<10	<10	<10	<10
2-Chloronaphthalene	ug/L								<10
2-Chlorophenol	ug/L								<10
2-Hexanone	ug/L	<10	<10	<10	<10	<20	<10	<10	<10
2-Methylnaphthalene	ug/L								<10
2-Methylphenol	ug/L								<10
2-Naphthylamine	ug/L								<10
2-Nitroaniline	ug/L								<10
2-Nitrophenol	ug/L								<10
3,3-Dichlorobenzidine	ug/L								<10
3,3-Dimethylbenzidine	ug/L								<10
3/4-Methylphenol	ug/L								<10
3-Chloropropene	ug/L								<2
3-Methylcholanthrene	ug/L								<10
3-Nitroaniline	ug/L								<10
4,4`-DDD	ug/L								<.0320
4,4`-DDE	ug/L								<.0320
4,4`-DDT	ug/L								<.0320
4,6-Dinitro-2-methylphenol	ug/L								<10
4-Aminobiphenyl	ug/L								<10
4-Bromophenyl phenyl ether	ug/L								<10
4-Chloro-3-methylphenol	ug/L								<10
4-Chloroaniline	ug/L								<10
4-Chlorophenyl phenyl ether	ug/L								<10
4-Methyl-2-Pentanone	ug/L	<10	<10	<10	<10	<10	<10	<10	<10
4-Nitroaniline	ug/L								<10
4-Nitrophenol	ug/L								<10
5-Nitro-o-toluidine	ug/L								<10
7,12-Dimethylbenz [a] anthracene	ug/L								<10
Acenaphthene	ug/L								<10
Acenaphthylene	ug/L								<10
Acetone	ug/L	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00
Acetonitrile	ug/L								<10000
Acetophenone	ug/L								<10
Acrolein	ug/L								<10
Acrylonitrile	ug/L	<10	<10	<10	<10	<10	<10	<10	<10
Aldrin	ug/L								<.0320
alpha-BHC	ug/L								<.0320
alpha-Chlordane	ug/L								
Anthracene	ug/L								<10

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-36

Constituents	10/27/2011	4/26/2012	10/9/2012	2/20/2013	5/15/2013	10/3/2013	12/18/2013	4/22/2014	10/14/2014
1,1,1,2-Tetrachloroethane	<1	<1	<1	<1		<1		<1	<1
1,1,1-Trichloroethane	<1	<1	<1	<1		<1		<1	<1
1,1,2,2-Tetrachloroethane	<1	<1	<1	<1		<1		<1	<1
1,1,2-Trichloroethane	<1	<1	<2	<1		<1		<1	<1
1,1-Dichloroethane	<1	<1	<1	<1		<1		<1	<1
1,1-Dichloroethene	<2	<1	<2	<2		<2		<2	<2
1,1-Dichloropropene			<1						
1,2,3-Trichloropropane	<1.0	<1.0	<1.0	<1.0		<1.0		<1.0	<1.0
1,2,4,5-Tetrachlorobenzene			<10						
1,2,4-Trichlorobenzene			<5						
1,2-Dibromo-3-Chloropropane	<.120	<.200	<.120	<.120		<.120		<.120	<.120
1,2-Dibromoethane	<.130	<.050	<.130	<.130		<.130		<.130	<.130
1,2-Dichlorobenzene	<1	<1	<1	<1		<1		<1	<1
1,2-Dichloroethane	<1	<1	<1	<1		<1		<1	<1
1,2-Dichloropropane	<1	<1	<1	<1		<1		<1	<1
1,3,5-Trinitrobenzene			<10						
1,3-Dichlorobenzene			<1						
1,3-Dichloropropane			<1						
1,3-Dinitrobenzene			<10						
1,4-Dichlorobenzene	<1	<1	<1	<1		<1		<1	<1
1,4-Naphthoquinone			<10						
1,4-Phenylenediamine			<10						
1-Naphthylamine			<10						
2,2-Dichloropropane			<4						
2,3,4,6-Tetrachlorophenol			<10						
2,4,5-T [2C]			<.52						
2,4,5-TP [Silvex] [2C]			<.34						
2,4,5-Trichlorophenol			<10						
2,4,6-Trichlorophenol			<10						
2,4-D [2C]			<.55						
2,4-Dichlorophenol			<10						
2,4-Dimethylphenol			<10						
2,4-Dinitrophenol			<20						
2,4-Dinitrotoluene			<10						
2,6-Dichlorophenol			<10						
2,6-Dinitrotoluene			<10						
2-Acetylaminofluorene			<10						
2-Butanone	<10	<10	<10	<10		<10		<10	<10
2-Chloronaphthalene			<10						
2-Chlorophenol			<10						
2-Hexanone	<10	<10	<10	<10		<10		<10	<10
2-Methylnaphthalene			<10						
2-Methylphenol			<10						
2-Naphthylamine			<10						
2-Nitroaniline			<10						
2-Nitrophenol			<10						
3,3-Dichlorobenzidine			<10						
3,3-Dimethylbenzidine			<10						
3/4-Methylphenol			<10						
3-Chloropropene			<2						
3-Methylcholanthrene			<10						
3-Nitroaniline			<10						
4,4`-DDD			<.0320						
4,4`-DDE			<.0320						
4,4`-DDT			<.0320						
4,6-Dinitro-2-methylphenol			<10						
4-Aminobiphenyl			<10						
4-Bromophenyl phenyl ether			<10						
4-Chloro-3-methylphenol			<10						
4-Chloroaniline			<10						
4-Chlorophenyl phenyl ether			<10						
4-Methyl-2-Pentanone	<10	<10	<10	<10		<10		<10	<10
4-Nitroaniline			<10						
4-Nitrophenol			<10						
5-Nitro-o-toluidine			<10						
7,12-Dimethylbenz [a] anthracene			<10						
Acenaphthene			<10						
Acenaphthylene			<10						
Acetone	<10.00	<10.00	<10.00	<10.00		<10.00		<10.00	<10.00
Acetonitrile			<10000						
Acetophenone			<10						
Acrolein			<10						
Acrylonitrile	<10	<5	<10	<10		<10		<10	<10
Aldrin			<.0320						
alpha-BHC			<.0320						
alpha-Chlordane			<.032						
Anthracene			<10						

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-36

Constituents	5/12/2015	7/29/2015	2/15/2016	10/31/2016	3/27/2017	11/13/2017	6/6/2018	11/26/2018	3/18/2019
1,1,1,2-Tetrachloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethene	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloropropene					<1				
1,2,3-Trichloropropane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,4,5-Tetrachlorobenzene					<10				
1,2,4-Trichlorobenzene					<5				
1,2-Dibromo-3-Chloropropane	<.500	<.500	<.500	<.500	<.500	<.500	<.500	<.500	<1.200
1,2-Dibromoethane	<.130	<.130	<.130	<.130	<.130	<.130	<.130	<.130	<.340
1,2-Dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trinitrobenzene					<10				
1,3-Dichlorobenzene					<1				
1,3-Dichloropropane					<1				
1,3-Dinitrobenzene					<10				
1,4-Dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-Naphthoquinone					<10				
1,4-Phenylenediamine					<10				
1-Naphthylamine					<10				
2,2-Dichloropropane					<4				
2,3,4,6-Tetrachlorophenol					<10				
2,4,5-T [2C]					<1.15				
2,4,5-TP [Silvex] [2C]					<1.15				
2,4,5-Trichlorophenol					<10				
2,4,6-Trichlorophenol					<10				
2,4-D [2C]					<1.15				
2,4-Dichlorophenol					<10				
2,4-Dimethylphenol					<10				
2,4-Dinitrophenol					<20				
2,4-Dinitrotoluene					<10				
2,6-Dichlorophenol					<10				
2,6-Dinitrotoluene					<10				
2-Acetylaminofluorene					<10				
2-Butanone	<10	<10	<10	<10	<10	<10	<10	<10	<10
2-Chloronaphthalene					<10				
2-Chlorophenol					<10				
2-Hexanone	<10	<10	<10	<10	<10	<10	<10	<10	<10
2-Methylnaphthalene					<10				
2-Methylphenol					<10				
2-Naphthylamine					<10				
2-Nitroaniline					<10				
2-Nitrophenol					<10				
3,3-Dichlorobenzidine					<50				
3,3-Dimethylbenzidine					<10				
3/4-Methylphenol					<10				
3-Chloropropene					<2				
3-Methylcholanthrene					<10				
3-Nitroaniline					<10				
4,4`-DDD					<.0320				
4,4`-DDE					<.0320				
4,4`-DDT					<.0320				
4,6-Dinitro-2-methylphenol					<10				
4-Aminobiphenyl					<10				
4-Bromophenyl phenyl ether					<10				
4-Chloro-3-methylphenol					<10				
4-Chloroaniline					<10				
4-Chlorophenyl phenyl ether					<10				
4-Methyl-2-Pentanone	<10	<10	<10	<10	<10	<10	<10	<10	<10
4-Nitroaniline					<10				
4-Nitrophenol					<10				
5-Nitro-o-toluidine					<10				
7,12-Dimethylbenz [a] anthracene					<10				
Acenaphthene					<10				
Acenaphthylene					<10				
Acetone	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00
Acetonitrile					<10000				
Acetophenone					<10				
Acrolein					<10				
Acrylonitrile	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aldrin					<.0320				
alpha-BHC					<.0320				
alpha-Chlordane									
Anthracene					<10				

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-36

Constituents	12/2/2019	3/30/2020	11/17/2020	5/6/2021	10/7/2021	4/6/2022	8/23/2022	3/8/2023	9/13/2023
1,1,1,2-Tetrachloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethene	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloropropene						<1			
1,2,3-Trichloropropane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,4,5-Tetrachlorobenzene						<10			
1,2,4-Trichlorobenzene						<5			
1,2-Dibromo-3-Chloropropane	<1.200	<5.000	<5.000	<5.000	<5.000	<5.000	<5.000	<5.000	<5.000
1,2-Dibromoethane	<.340	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000
1,2-Dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trinitrobenzene						<10			
1,3-Dichlorobenzene						<1			
1,3-Dichloropropane						<1			
1,3-Dinitrobenzene						<10			
1,4-Dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-Naphthoquinone						<10			
1,4-Phenylenediamine						<10			
1-Naphthylamine						<10			
2,2-Dichloropropane						<4			
2,3,4,6-Tetrachlorophenol						<10			
2,4,5-T [2C]						<1.03			
2,4,5-TP [Silvex] [2C]						<1.03			
2,4,5-Trichlorophenol						<10			
2,4,6-Trichlorophenol						<10			
2,4-D [2C]						<1.03			
2,4-Dichlorophenol						<10			
2,4-Dimethylphenol						<10			
2,4-Dinitrophenol						<20			
2,4-Dinitrotoluene						<10			
2,6-Dichlorophenol						<10			
2,6-Dinitrotoluene						<10			
2-Acetylaminofluorene						<10			
2-Butanone	<10	<10	<10	<10	<10	<10	<10	<10	<10
2-Chloronaphthalene						<10			
2-Chlorophenol						<10			
2-Hexanone	<10	<10	<10	<10	<10	<10	<10	<10	<10
2-Methylnaphthalene						<10			
2-Methylphenol						<10			
2-Naphthylamine						<10			
2-Nitroaniline						<10			
2-Nitrophenol						<10			
3,3-Dichlorobenzidine						<10			
3,3-Dimethylbenzidine						<10			
3/4-Methylphenol						<10			
3-Chloropropene						<2			
3-Methylcholanthrene						<10			
3-Nitroaniline						<10			
4,4`-DDD						<.0696			
4,4`-DDE						<.0696			
4,4`-DDT						<.0696			
4,6-Dinitro-2-methylphenol						<10			
4-Aminobiphenyl						<10			
4-Bromophenyl phenyl ether						<10			
4-Chloro-3-methylphenol						<10			
4-Chloroaniline						<10			
4-Chlorophenyl phenyl ether						<10			
4-Methyl-2-Pentanone	<10	<10	<10	<10	<10	<10	<10	<10	<10
4-Nitroaniline						<10			
4-Nitrophenol						<10			
5-Nitro-o-toluidine						<10			
7,12-Dimethylbenz [a] anthracene						<10			
Acenaphthene						<10			
Acenaphthylene						<10			
Acetone	<10.00	<10.00	<10.00	<4.08	<10.00	<10.00	<10.00	<10.00	<10.00
Acetonitrile						<10000			
Acetophenone						<10			
Acrolein						<10			
Acrylonitrile	<10	<5	<5	<5	<5	<5	<5	<5	<5
Aldrin						<.0696			
alpha-BHC						<.0696			
alpha-Chlordane									
Anthracene						<10			

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-36

Constituents	5/29/2024	10/15/2024
1,1,1,2-Tetrachloroethane	<1	<1
1,1,1-Trichloroethane	<1	<1
1,1,2,2-Tetrachloroethane	<1	<1
1,1,2-Trichloroethane	<1	<1
1,1-Dichloroethane	<1	<1
1,1-Dichloroethene	<2	<1
1,1-Dichloropropene		
1,2,3-Trichloropropane	<1.0	<1.0
1,2,4,5-Tetrachlorobenzene		
1,2,4-Trichlorobenzene		
1,2-Dibromo-3-Chloropropane	<5.000	<5.000
1,2-Dibromoethane	<1.000	<1.000
1,2-Dichlorobenzene	<1	<1
1,2-Dichloroethane	<1	<1
1,2-Dichloropropane	<1	<1
1,3,5-Trinitrobenzene		
1,3-Dichlorobenzene		
1,3-Dichloropropane		
1,3-Dinitrobenzene		
1,4-Dichlorobenzene	<1	<1
1,4-Naphthoquinone		
1,4-Phenylenediamine		
1-Naphthylamine		
2,2-Dichloropropane		
2,3,4,6-Tetrachlorophenol		
2,4,5-T [2C]		
2,4,5-TP [Silvex] [2C]		
2,4,5-Trichlorophenol		
2,4,6-Trichlorophenol		
2,4-D [2C]		
2,4-Dichlorophenol		
2,4-Dimethylphenol		
2,4-Dinitrophenol		
2,4-Dinitrotoluene		
2,6-Dichlorophenol		
2,6-Dinitrotoluene		
2-Acetylaminofluorene		
2-Butanone	<10	<10
2-Chloronaphthalene		
2-Chlorophenol		
2-Hexanone	<10	<5
2-Methylnaphthalene		
2-Methylphenol		
2-Naphthylamine		
2-Nitroaniline		
2-Nitrophenol		
3,3-Dichlorobenzidine		
3,3-Dimethylbenzidine		
3/4-Methylphenol		
3-Chloropropene		
3-Methylcholanthrene		
3-Nitroaniline		
4,4`-DDD		
4,4`-DDE		
4,4`-DDT		
4,6-Dinitro-2-methylphenol		
4-Aminobiphenyl		
4-Bromophenyl phenyl ether		
4-Chloro-3-methylphenol		
4-Chloroaniline		
4-Chlorophenyl phenyl ether		
4-Methyl-2-Pentanone	<10	<5
4-Nitroaniline		
4-Nitrophenol		
5-Nitro-o-toluidine		
7,12-Dimethylbenz [a] anthracene		
Acenaphthene		
Acenaphthylene		
Acetone	<10.00	<10.00
Acetonitrile		
Acetophenone		
Acrolein		
Acrylonitrile	<5	<5
Aldrin		
alpha-BHC		
alpha-Chlordane		
Anthracene		

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-36

Constituents	Units	8/21/2009	12/15/2009	2/18/2010	3/11/2010	5/27/2010	8/31/2010	2/16/2011	7/7/2011
Antimony	ug/L	<6.00	<6.00	<6.00	<6.00	<6.00	7.08	<6.00	<6.00
Arsenic	ug/L	6.60	7.63	5.57 *	2.11	2.50	3.29	2.49 *	1.66
Barium	ug/L	2250	584	530 *	347	648	3150	1036 *	489
Benzene	ug/L	<.50	<.50	<.50	<.50	<.50	<.50	<.50	<.50
Benzo [a] anthracene	ug/L								<10
Benzo [a] pyrene	ug/L								<10
Benzo [b] fluoranthene	ug/L								<10
Benzo [g,h,i] perylene	ug/L								<10
Benzo [k] fluoranthene	ug/L								<10
Benzyl alcohol	ug/L								<10
Beryllium	ug/L	25.500	<15.000	15.400 *	2.970	4.020	30.900	9.795 *	4.670
beta-BHC	ug/L								<.0320
Bis[2-chloroethoxy]methane	ug/L								<10
Bis[2-chloroethyl]ether	ug/L								<10
Bis[2-chloroisopropyl]ether	ug/L								<10
Bis[2-ethylhexyl]phthalate	ug/L								<10
Bromochloromethane	ug/L	<5	<5	<5	<5	<5	<5	<5	<5
Bromodichloromethane	ug/L	<1	<5	<1	<5	<4	<1	<1	<1
Bromoform	ug/L	<5	<20	<5	<5	<20	<5	<5	<5
Bromomethane	ug/L	<4	<4	<4	<4	<4	<4	<4	<4
Butyl benzyl phthalate	ug/L								<10
Cadmium	ug/L	8.140	4.080	5.870 *	1.940	3.760	9.380	9.430 *	4.630
Carbon Disulfide	ug/L	<1	<5	<1	<1	<4	<4	<1	<1
Carbon Tetrachloride	ug/L	<2	<5	<2	<10	<4	<5	<2	<2
Chlordane	ug/L								<2.00
Chlorobenzene	ug/L	<1	<1	<1	<5	<1	<1	<1	<1
Chlorobenzilate	ug/L								<10
Chlorodibromomethane	ug/L	<5	<5	<5	<5	<5	<10	<5	<5
Chloroethane	ug/L	<4	<4	<4	<4	<4	<4	<4	<4
Chloroform	ug/L	<1	<1	<1	<1	<1	<1	<1	<1
Chloromethane	ug/L	<3	<3	<3	<3	<3	<3	<3	<3
Chloroprene	ug/L								<1
Chromium	ug/L	<20.00	<20.00	<20.00	<20.00	<20.00	<20.00	<20.00	<20.00
Chrysene	ug/L								<10
cis-1,2-Dichloroethene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,3-Dichloropropene	ug/L	<5	<5	<5	<5	<5	<10	<5	<5
Cobalt	ug/L	332.000	97.200	96.200 *	35.000	65.100	164.000	45.450 *	78.000
Copper	ug/L	50.90	30.60	35.30 *	<20.00	<20.00	47.80	26.55 *	21.00
Cyanide	mg/L								<.01
delta-BHC	ug/L								<.0320
Diallate [cis or trans]	ug/L								<10
Dibenz [a,h] anthracene	ug/L								<10
Dibenzofuran	ug/L								<10
Dichlorodifluoromethane	ug/L								<3
Dieldrin	ug/L								<.0320
Diethyl phthalate	ug/L								<10
Dimethoate	ug/L								<10
Dimethyl phthalate	ug/L								<10
Dimethylaminoazobenzene	ug/L								<10
Di-n-butyl phthalate	ug/L								<10
Di-n-octyl phthalate	ug/L								<10
Dinoseb	ug/L								<10
Diphenylamine	ug/L								<10
Disulfoton	ug/L								<10
Endosulfan I	ug/L								<.0320
Endosulfan II	ug/L								<.0320
Endosulfan sulfate	ug/L								<.0320
Endrin	ug/L								<.0320
Endrin aldehyde	ug/L								<.0320
Ethyl Methacrylate	ug/L								<2
Ethyl Methanesulfonate	ug/L								<10
Ethylbenzene	ug/L	<1	<2	<1	<1	<1	<1	<1	<1
Famphur	ug/L								<20
Fluoranthene	ug/L								<10
Fluorene	ug/L								<10
gamma-BHC [Lindane]	ug/L								<.0320
gamma-Chlordane	ug/L								
Heptachlor	ug/L								<.0320
Heptachlor Epoxide	ug/L								<.0320
Hexachlorobenzene	ug/L								<10
Hexachlorobutadiene	ug/L								<10
Hexachlorocyclopentadiene	ug/L								<10
Hexachloroethane	ug/L								<10
Hexachloropropene	ug/L								<10
Indeno [1,2,3-cd] pyrene	ug/L								<10
Iodomethane	ug/L	<10	<10	<10	<10	<10	<10	<10	<20
Isobutanol	ug/L								<10000

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-36

Constituents	10/27/2011	4/26/2012	10/9/2012	2/20/2013	5/15/2013	10/3/2013	12/18/2013	4/22/2014	10/14/2014
Antimony	<6.00	<6.00	<12.00	<6.00		<1.00		<6.00	<6.00
Arsenic	<1.00	138.00	5.19	2.03		4.14		1.88	<1.00
Barium	264	3690	742	325		407		299	659
Benzene	<.50	<.50	<.50	<.50		<.01		<1.00	<.50
Benzo [a] anthracene			<10						
Benzo [a] pyrene			<10						
Benzo [b] fluoranthene			<10						
Benzo [g,h,i] perylene			<10						
Benzo [k] fluoranthene			<10						
Benzyl alcohol			<10						
Beryllium	<1.000	42.000	13.200	10.100		17.000		14.200	3.360
beta-BHC			<.0320						
Bis[2-chloroethoxy]methane			<10						
Bis[2-chloroethyl]ether			<10						
Bis[2-chloroisopropyl]ether			<10						
Bis[2-ethylhexyl]phthalate			<10						
Bromochloromethane	<5	<5	<5	<5		<5		<5	<5
Bromodichloromethane	<1	<1	<2	<1		<1		<1	<1
Bromoform	<5	<5	<5	<5		<5		<5	<5
Bromomethane	<20	<50	<5	<4		<4		<4	<4
Butyl benzyl phthalate			<10						
Cadmium	1.530	27.800	6.200	2.960		4.580		4.630	1.860
Carbon Disulfide	<1	<1	<1	<1		<1		<1	<1
Carbon Tetrachloride	<2	<2	<2	<2		<2		<2	<2
Chlordane			<2.00						
Chlorobenzene	<1	<1	<1	<1		<1		<1	<1
Chlorobenzilate			<10						
Chlorodibromomethane	<5	<5	<5	<5		<5		<5	<5
Chloroethane	<4	<4	<4	<4		<4		<4	<4
Chloroform	<1	<1	<2	<1		<1		<1	<1
Chloromethane	<3	<3	<3	<3		<3		<3	<3
Chloroprene			<1						
Chromium	<20.00	176.00	<20.00	<20.00		<10.00		<10.00	<20.00
Chrysene			<10						
cis-1,2-Dichloroethene	<1	<1	<1	<1		<1		<1	<1
cis-1,3-Dichloropropene	<5	<5	<5	<5		<5		<5	<5
Cobalt	10.800	652.000	31.000	41.300		70.200		47.200	67.500
Copper	<20.00	300.00	26.20	23.50		26.70		24.60	<10.00
Cyanide			<.01						
delta-BHC			<.0320						
Diallate [cis or trans]			<10						
Dibenz [a,h] anthracene			<10						
Dibenzofuran			<10						
Dichlorodifluoromethane			<3						
Dieldrin			<.0320						
Diethyl phthalate			<10						
Dimethoate			<10						
Dimethyl phthalate			<10						
Dimethylaminoazobenzene			<10						
Di-n-butyl phthalate			<10						
Di-n-octyl phthalate			<10						
Dinoseb			<10						
Diphenylamine			<10						
Disulfoton			<10						
Endosulfan I			<.0320						
Endosulfan II			<.0320						
Endosulfan sulfate			<.0320						
Endrin			<.0320						
Endrin aldehyde			<.0320						
Ethyl Methacrylate			<2						
Ethyl Methanesulfonate			<10						
Ethylbenzene	<1	<1	<1	<1		<1		<1	<1
Famphur			<20						
Fluoranthene			<10						
Fluorene			<10						
gamma-BHC [Lindane]			<.0320						
gamma-Chlordane			<.032						
Heptachlor			<.0320						
Heptachlor Epoxide			<.0320						
Hexachlorobenzene			<10						
Hexachlorobutadiene			<10						
Hexachlorocyclopentadiene			<10						
Hexachloroethane			<10						
Hexachloropropene			<10						
Indeno [1,2,3-cd] pyrene			<10						
Iodomethane	<20	<10	<10	<10		<10		<10	<10
Isobutanol			<10000						

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-36

Constituents	5/12/2015	7/29/2015	2/15/2016	10/31/2016	3/27/2017	11/13/2017	6/6/2018	11/26/2018	3/18/2019
Antimony	<1.00 *	<1.00	<1.00	<1.00	<1.00	<1.00	<3.00	<1.00	<1.00
Arsenic	2.74 *	<2.00	<2.00	<2.00	<2.00	<1.00	5.23	<2.00	<1.50 *
Barium	1011 *	280	335	486	337	366	306	130	407 *
Benzene	<.50	<.50	<.50	<.50	<.50	<.50	<.50	<.50	<.50
Benzo [a] anthracene					<10				
Benzo [a] pyrene					<10				
Benzo [b] fluoranthene					<10				
Benzo [g,h,i] perylene					<10				
Benzo [k] fluoranthene					<10				
Benzyl alcohol					<1				
Beryllium	5.590 *	1.290	<1.000	2.200	<1.000	<1.000	<1.000	<1.000	1.019 *
beta-BHC					<.0320				
Bis[2-chloroethoxy]methane					<10				
Bis[2-chloroethyl]ether					<10				
Bis[2-chloroisopropyl]ether					<10				
Bis[2-ethylhexyl]phthalate					<5				
Bromochloromethane	<5	<5	<5	<5	<5	<5	<5	<5	<5
Bromodichloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromoform	<5	<5	<5	<5	<5	<5	<5	<5	<5
Bromomethane	<4	<4	<4	<4	<4	<4	<4	<4	<4
Butyl benzyl phthalate					<10				
Cadmium	3.315 *	.676	<1.000	.973	<1.000	<1.000	<1.000	<.500	<1.000 *
Carbon Disulfide	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon Tetrachloride	<2	<2	<2	<2	<2	<2	<2	<2	<2
Chlordane					<2.00				
Chlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzilate					<10				
Chlorodibromomethane	<5	<5	<5	<5	<5	<5	<5	<5	<5
Chloroethane	<4	<4	<4	<4	<4	<4	<4	<4	<4
Chloroform	<1	<1	<1	<1	<1	<1	<3	<3	<3
Chloromethane	<3	<3	<3	<3	<3	<3	<3	<3	<3
Chloroprene					<1				
Chromium	<3.00 *	<5.00	<5.00	<2.00	<5.00	<5.00	8.38	<5.00	<2.00 *
Chrysene					<10				
cis-1,2-Dichloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,3-Dichloropropene	<5	<5	<5	<5	<5	<5	<5	<5	<5
Cobalt	92.050 *	6.710	4.220	9.530	1.400	1.140	8.210	<1.000	13.900 *
Copper	20.85 *	5.38	3.05	<4.00	<5.00	<5.00	6.11	<5.00	<3.50 *
Cyanide					<.01				
delta-BHC					<.0320				
Diallate [cis or trans]					<10				
Dibenz [a,h] anthracene					<10				
Dibenzofuran					<10				
Dichlorodifluoromethane					<3				
Dieldrin					<.0320				
Diethyl phthalate					<10				
Dimethoate					<10				
Dimethyl phthalate					<10				
Dimethylaminoazobenzene					<10				
Di-n-butyl phthalate					<1				
Di-n-octyl phthalate					<20				
Dinoseb					<10				
Diphenylamine					<10				
Disulfoton					<10				
Endosulfan I					<.0320				
Endosulfan II					<.0320				
Endosulfan sulfate					<.0320				
Endrin					<.0320				
Endrin aldehyde					<.0320				
Ethyl Methacrylate					<2				
Ethyl Methanesulfonate					<10				
Ethylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Famphur					<20				
Fluoranthene					<10				
Fluorene					<10				
gamma-BHC [Lindane]					<.0320				
gamma-Chlordane									
Heptachlor					<.0320				
Heptachlor Epoxide					<.0320				
Hexachlorobenzene					<10				
Hexachlorobutadiene					<10				
Hexachlorocyclopentadiene					<20				
Hexachloroethane					<10				
Hexachloropropene					<10				
Indeno [1,2,3-cd] pyrene					<10				
Iodomethane	<10	<10	<10	<10	<10	<10	<10	<10	<10
Isobutanol					<10000				

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-36

Constituents	12/2/2019	3/30/2020	11/17/2020	5/6/2021	10/7/2021	4/6/2022	8/23/2022	3/8/2023	9/13/2023
Antimony	<1.00	<1.00	1.83	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00
Arsenic	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<1.00
Barium	279	291 *	251	198	162 *	134	126	127 *	135
Benzene	<.50	<.50	<.50	<.50	<.50	<.50	<.50	<.50	<.50
Benzo [a] anthracene						<10			
Benzo [a] pyrene						<10			
Benzo [b] fluoranthene						<10			
Benzo [g,h,i] perylene						<10			
Benzo [k] fluoranthene						<10			
Benzyl alcohol						<10			
Beryllium	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<.906
beta-BHC						<.0696			
Bis[2-chloroethoxy]methane						<10			
Bis[2-chloroethyl]ether						<10			
Bis[2-chloroisopropyl]ether						<10			
Bis[2-ethylhexyl]phthalate						<10			
Bromochloromethane	<5	<5	<5	<5	<5	<5	<5	<5	<5
Bromodichloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromoform	<5	<5	<5	<5	<5	<5	<5	<5	<5
Bromomethane	<4	<4	<4	<4	<4	<4	<4	<4	<4
Butyl benzyl phthalate						<10			
Cadmium	.208	.138 *	<.100	.242	.145 *	.240	.264	.697 *	.656
Carbon Disulfide	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon Tetrachloride	<2	<2	<2	<2	<2	<2	<2	<2	<2
Chlordane						<2.17			
Chlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzilate						<10			
Chlorodibromomethane	<5	<5	<5	<5	<5	<5	<5	<5	<5
Chloroethane	<4	<4	<4	<4	<4	<4	<4	<4	<4
Chloroform	<3	<3	<3	<3	<3	<3	<3	<3	<3
Chloromethane	<3	<3	<3	<3	<3	<3	<3	<3	<3
Chloroprene						<1			
Chromium	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<4.75 *	<2.57
Chrysene						<10			
cis-1,2-Dichloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,3-Dichloropropene	<5	<5	<5	<5	<5	<5	<5	<5	<5
Cobalt	3.850	.716 *	<.500	1.330	1.160 *	2.310	2.530	1.585 *	3.870
Copper	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	8.78	<5.00	<3.88
Cyanide						<.01			
delta-BHC						<.0696			
Diallate [cis or trans]						<10			
Dibenz [a,h] anthracene						<10			
Dibenzofuran						<10			
Dichlorodifluoromethane						<3			
Dieldrin						<.0696			
Diethyl phthalate						<10			
Dimethoate						<10			
Dimethyl phthalate						<10			
Dimethylaminoazobenzene						<10			
Di-n-butyl phthalate						<10			
Di-n-octyl phthalate						<20			
Dinoseb						<10			
Diphenylamine						<10			
Disulfoton						<10			
Endosulfan I						<.0696			
Endosulfan II						<.0696			
Endosulfan sulfate						<.0696			
Endrin						<.0682			
Endrin aldehyde						<.0696			
Ethyl Methacrylate						<2			
Ethyl Methanesulfonate						<10			
Ethylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Famphur						<10			
Fluoranthene						<10			
Fluorene						<10			
gamma-BHC [Lindane]						<.0696			
gamma-Chlordane									
Heptachlor						<.0696			
Heptachlor Epoxide						<.0696			
Hexachlorobenzene						<10			
Hexachlorobutadiene						<10			
Hexachlorocyclopentadiene						<10			
Hexachloroethane						<10			
Hexachloropropene						<10			
Indeno [1,2,3-cd] pyrene						<10			
Iodomethane	<10	<10	<10	<10	<10	<10	<10	<10	<10
Isobutanol						<10000			

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-36

Constituents	5/29/2024	10/15/2024
Antimony	<2.00	<2.00
Arsenic	<2.00	<4.00
Barium	201	146
Benzene	<.50	<1.00
Benzo [a] anthracene		
Benzo [a] pyrene		
Benzo [b] fluoranthene		
Benzo [g,h,i] perylene		
Benzo [k] fluoranthene		
Benzyl alcohol		
Beryllium	4.150	<4.000
beta-BHC		
Bis[2-chloroethoxy]methane		
Bis[2-chloroethyl]ether		
Bis[2-chloroisopropyl]ether		
Bis[2-ethylhexyl]phthalate		
Bromochloromethane	<5	<1
Bromodichloromethane	<1	<1
Bromoform	<5	<1
Bromomethane	<4	<1
Butyl benzyl phthalate		
Cadmium	2.530	<.800
Carbon Disulfide	<1	<1
Carbon Tetrachloride	<2	<1
Chlordane		
Chlorobenzene	<1	<1
Chlorobenzilate		
Chlorodibromomethane	<5	<1
Chloroethane	<4	<1
Chloroform	<3	<1
Chloromethane	<3	<1
Chloroprene		
Chromium	44.90	<8.00
Chrysene		
cis-1,2-Dichloroethene	<1	<1
cis-1,3-Dichloropropene	<5	<1
Cobalt	24.600	.800
Copper	12.10	<4.00
Cyanide		
delta-BHC		
Diallate [cis or trans]		
Dibenz [a,h] anthracene		
Dibenzofuran		
Dichlorodifluoromethane		
Dieldrin		
Diethyl phthalate		
Dimethoate		
Dimethyl phthalate		
Dimethylaminoazobenzene		
Di-n-butyl phthalate		
Di-n-octyl phthalate		
Dinoseb		
Diphenylamine		
Disulfoton		
Endosulfan I		
Endosulfan II		
Endosulfan sulfate		
Endrin		
Endrin aldehyde		
Ethyl Methacrylate		
Ethyl Methanesulfonate		
Ethylbenzene	<1	<1
Famphur		
Fluoranthene		
Fluorene		
gamma-BHC [Lindane]		
gamma-Chlordane		
Heptachlor		
Heptachlor Epoxide		
Hexachlorobenzene		
Hexachlorobutadiene		
Hexachlorocyclopentadiene		
Hexachloroethane		
Hexachloropropene		
Indeno [1,2,3-cd] pyrene		
Iodomethane	<10	<1
Isobutanol		

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-36

Constituents	Units	8/21/2009	12/15/2009	2/18/2010	3/11/2010	5/27/2010	8/31/2010	2/16/2011	7/7/2011
Isodrin	ug/L								<10
Isophorone	ug/L								<10
Isosafrole	ug/L								<10
Kepone	ug/L								<10
Lead	ug/L	4.940	26.600	26.200 *	24.300	20.300	27.100	12.900 *	18.900
MP-Xylene	ug/L								
Mercury	ug/L								<.200
Methacrylonitrile	ug/L								<1
Methapyrilene	ug/L								<10
Methoxychlor	ug/L								<.0320
Methyl Methacrylate	ug/L								<2
Methyl Methanesulfonate	ug/L								<10
Methylene Bromide	ug/L	<1	<1	<1	<50	<1	<1	<1	<1
Methylene Chloride	ug/L	<5	<5	<5	<5	<5	<5	<5	<5
Naphthalene	ug/L								<5
Nickel	ug/L	199.00	78.10	95.40 *	<50.00	52.70	188.00	72.95 *	77.50
Nitrobenzene	ug/L								<10
N-Nitrosodiethylamine	ug/L								<10
N-Nitrosodimethylamine	ug/L								<10
N-Nitrosodi-n-butylamine	ug/L								<10
N-Nitrosodi-n-propylamine	ug/L								<10
N-Nitrosodiphenylamine	ug/L								<10
N-Nitrosomethylethylamine	ug/L								<10
N-Nitrosopiperidine	ug/L								<10
N-Nitrosopyrrolidine	ug/L								<10
O,O,O-Triethyl Phosphorothioate	ug/L								<10
o-Toluidine	ug/L								<10
o-Xylene	ug/L								
Parathion-Ethyl	ug/L								<10
Parathion-Methyl	ug/L								<10
PCB-1016	ug/L								<.800
PCB-1221	ug/L								<.800
PCB-1232	ug/L								<.800
PCB-1242	ug/L								<.800
PCB-1248	ug/L								<.800
PCB-1254	ug/L								<.800
PCB-1260	ug/L								<.800
Pentachlorobenzene	ug/L								<10
Pentachloronitrobenzene	ug/L								<10
Pentachlorophenol [2C]	ug/L								<10
Phenacetin	ug/L								<10
Phenanthrene	ug/L								<10
Phenol	ug/L								<10
Phorate	ug/L								<10
Pronamide	ug/L								<10
Propionitrile	ug/L								<10
Pyrene	ug/L								<10
Safrole	ug/L								<10
Selenium	ug/L	<5.00	5.44	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Silver	ug/L	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
Styrene	ug/L	<1	<5	<2	<5	<4	<4	<1	<1
Sulfide	mg/L								<.12
Tetrachloroethene	ug/L	<1	<1	<2	<5	<1	<1	<1	<1
Thallium	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Thionazin	ug/L								<10
Tin	ug/L								<100
Toluene	ug/L	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Total Suspended Solids	mg/L								
Toxaphene	ug/L								<2.00
trans-1,2-Dichloroethene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,3-Dichloropropene	ug/L	<5	<20	<5	<5	<5	<10	<5	<10
trans-1,4-Dichloro-2-Butene	ug/L	<10	<10	<10	<50	<10	<10	<10	<10
Trichloroethene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	ug/L	<4	<4	<4	<4	<4	<4	<4	<4
Vanadium	ug/L	132.00	82.50	77.10 *	<50.00	<50.00	78.70	70.35 *	<50.00
Vinyl Acetate	ug/L	<2	<2	<2	<2	<2	<2	<4	<2
Vinyl Chloride	ug/L	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	ug/L	<3.00	<9.00	<3.00	<7.50	<12.00	<3.00	<3.00	<3.00
Zinc	ug/L	295.0	179.0	170.0 *	71.9	49.9	203.0	83.0 *	66.6

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-36

Constituents	10/27/2011	4/26/2012	10/9/2012	2/20/2013	5/15/2013	10/3/2013	12/18/2013	4/22/2014	10/14/2014
Isodrin			<10						
Isophorone			<10						
Isosafrole			<10						
Kepone			<10						
Lead	11.000	411.000	13.600	16.200		17.800		15.800	37.500
MP-Xylene			<2	<2					
Mercury			<.267						
Methacrylonitrile			<2						
Methapyrilene			<10						
Methoxychlor			<.0320						
Methyl Methacrylate			<2						
Methyl Methanesulfonate			<10						
Methylene Bromide	<1	<1	<1	<1		<1		<1	<1
Methylene Chloride	<5	<5	<5	<5		<5		<5	<5
Naphthalene			<5						
Nickel	<50.00	744.00	54.70	68.80		71.20		58.60	<10.00
Nitrobenzene			<10						
N-Nitrosodiethylamine			<10						
N-Nitrosodimethylamine			<10						
N-Nitrosodi-n-butylamine			<10						
N-Nitrosodi-n-propylamine			<10						
N-Nitrosodiphenylamine			<10						
N-Nitrosomethylethylamine			<10						
N-Nitrosopiperidine			<10						
N-Nitrosopyrrolidine			<10						
O,O,O-Triethyl Phosphorothioate			<10						
o-Toluidine			<10						
o-Xylene			<1	<1					
Parathion-Ethyl			<10						
Parathion-Methyl			<10						
PCB-1016			<.800						
PCB-1221			<.800						
PCB-1232			<.800						
PCB-1242			<.800						
PCB-1248			<.800						
PCB-1254			<.800						
PCB-1260			.965	<.800		<.842	<.842	<.816	<.816
Pentachlorobenzene			<10						
Pentachloronitrobenzene			<10						
Pentachlorophenol [2C]			<10						
Phenacetin			<10						
Phenanthrene			<10						
Phenol			<10						
Phorate			<10						
Pronamide			<10						
Propionitrile			<10						
Pyrene			<10						
Safrole			<10						
Selenium	<5.00	13.20	5.41	<5.00		5.17		<1.00	<5.00
Silver	<20.0	<20.0	<20.0	<20.0		<20.0		<20.0	<20.0
Styrene	<1	<1	<1	<1		<1		<1	<1
Sulfide			<.23		<1.00				
Tetrachloroethene	<1	<1	<1	<1		<1		<1	<1
Thallium	<2.0	3.4	<2.0	<2.0		<2.0		<2.0	<2.0
Thionazin			<10						
Tin			<100						
Toluene	<1.00	<1.00	<1.00	<1.00		<1.00		<1.00	<1.00
Total Suspended Solids								11000.000	1690.000
Toxaphene			<2.00						
trans-1,2-Dichloroethene	<1	<1	<1	<1		<1		<1	<1
trans-1,3-Dichloropropene	<5	<5	<5	<5		<5		<5	<5
trans-1,4-Dichloro-2-Butene	<10	<10	<10	<10		<10		<10	<10
Trichloroethene	<1	<1	<1	<1		<1		<1	<1
Trichlorofluoromethane	<4	<4	<4	<4		<4		<4	<4
Vanadium	<50.00	889.00	96.70	88.60		69.10		110.00	<10.00
Vinyl Acetate	<2	<5	<2	<2		<2		<2	<10
Vinyl Chloride	<1	<1	<1	<1		<1		<1	<1
Xylenes, total	<3.00	<3.00	<3.00	<3.00		<3.00		<3.00	<3.00
Zinc	<20.0	1100.0	66.0	136.0		220.0		<20.0	35.4

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-36

Constituents	5/12/2015	7/29/2015	2/15/2016	10/31/2016	3/27/2017	11/13/2017	6/6/2018	11/26/2018	3/18/2019
Isodrin					<10				
Isophorone					<10				
Isosafrole					<10				
Kepone					<10				
Lead	33.050 *	6.710	4.260	8.860	2.090	1.540	6.550	<1.000	7.505 *
MP-Xylene									
Mercury					<.200				
Methacrylonitrile					<10				
Methapyrilene					<10				
Methoxychlor					<.0320				
Methyl Methacrylate					<2				
Methyl Methanesulfonate					<10				
Methylene Bromide	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	<5	<5	<5	<1	<5	<5	<5	<5	<5
Naphthalene					<5				
Nickel	62.60 *	9.43	6.39	22.50	<2.00	<3.00	10.70	<5.00	4.11 *
Nitrobenzene					<10				
N-Nitrosodiethylamine					<10				
N-Nitrosodimethylamine					<10				
N-Nitrosodi-n-butylamine					<10				
N-Nitrosodi-n-propylamine					<10				
N-Nitrosodiphenylamine					<10				
N-Nitrosomethylethylamine					<10				
N-Nitrosopiperidine					<10				
N-Nitrosopyrrolidine					<10				
O,O,O-Triethyl Phosphorothioate					<10				
o-Toluidine					<10				
o-Xylene									
Parathion-Ethyl					<10				
Parathion-Methyl					<10				
PCB-1016					<.816				
PCB-1221					<.816				
PCB-1232					<.816				
PCB-1242					<.816				
PCB-1248					<.816				
PCB-1254					<.816				
PCB-1260	<.825	<.808	<.833	<.870	<.816	<.816			
Pentachlorobenzene					<10				
Pentachloronitrobenzene					<10				
Pentachlorophenol [2C]					<10				
Phenacetin					<10				
Phenanthrene					<10				
Phenol					<10				
Phorate					<10				
Pronamide					<10				
Propionitrile					<10				
Pyrene					<10				
Safrole					<10				
Selenium	<5.00	<5.00	<5.00	<3.00	<3.00	<3.00	3.26	<2.00	<2.50 *
Silver	<1.0 *	<1.0	<1.0	<1.0	<1.0	<1.0	<.5	<1.0	<1.0
Styrene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Sulfide					<1.00				
Tetrachloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Thallium	<1.0 *	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0
Thionazin					<10				
Tin					<5				
Toluene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Total Suspended Solids	7530.000 *	313.000	219.000	1310.000	37.100	61.800	76.000	6.750	742.000 *
Toxaphene					<2.00				
trans-1,2-Dichloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,3-Dichloropropene	<5	<5	<5	<5	<5	<5	<5	<5	<5
trans-1,4-Dichloro-2-Butene	<10	<10	<10	<10	<10	<10	<10	<10	<10
Trichloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	<4	<4	<4	<4	<4	<4	<4	<4	<4
Vanadium	58.55 *	19.00	11.50	25.40	<4.00	<3.00	23.10	<2.00	12.75 *
Vinyl Acetate	<10	<10	<10	<10	<10	<10	<10	<10	<10
Vinyl Chloride	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00
Zinc	70.9 *	13.5	12.2	19.9	<20.0	<20.0	21.9	<20.0	<20.0 *

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-36

Constituents	12/2/2019	3/30/2020	11/17/2020	5/6/2021	10/7/2021	4/6/2022	8/23/2022	3/8/2023	9/13/2023
Isodrin						<10			
Isophorone						<10			
Isosafrole						<10			
Kepone						<10			
Lead	3.610	<.500	<1.000	<.500	<.500	<.457	<.500	<.386 *	2.150
MP-Xylene									
Mercury						<.200			
Methacrylonitrile						<10			
Methapyrilene						<10			
Methoxychlor						<.0696			
Methyl Methacrylate						<2			
Methyl Methanesulfonate						<10			
Methylene Bromide	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	<5	<8 *	<5	<5	<5	<5	<5	<5	<5
Naphthalene						<5			
Nickel	<3.00	<3.00 *	<5.00	<4.15	<4.50 *	6.33	5.35	8.07 *	18.30
Nitrobenzene						<10			
N-Nitrosodiethylamine						<10			
N-Nitrosodimethylamine						<10			
N-Nitrosodi-n-butylamine						<10			
N-Nitrosodi-n-propylamine						<10			
N-Nitrosodiphenylamine						<10			
N-Nitrosomethylethylamine						<10			
N-Nitrosopiperidine						<10			
N-Nitrosopyrrolidine						<10			
O,O,O-Triethyl Phosphorothioate						<10			
o-Toluidine						<10			
o-Xylene									
Parathion-Ethyl						<10			
Parathion-Methyl						<10			
PCB-1016						<.870			
PCB-1221						<.870			
PCB-1232						<.870			
PCB-1242						<.870			
PCB-1248						<.870			
PCB-1254						<.870			
PCB-1260						<.870			
Pentachlorobenzene						<10			
Pentachloronitrobenzene						<10			
Pentachlorophenol [2C]						<10			
Phenacetin						<10			
Phenanthrene						<10			
Phenol						<10			
Phorate						<10			
Pronamide						<10			
Propionitrile						<10			
Pyrene						<10			
Safrole						<10			
Selenium	<2.00	<3.00 *	<2.00	<2.17	<2.27 *	<1.95	<1.31	<2.02 *	<1.99
Silver	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Styrene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Sulfide						<1.00			
Tetrachloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Thallium	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Thionazin						<10			
Tin						<5			
Toluene	<1.00	<1.00	<1.00	<.78	<1.00	<1.00	<1.00	<1.00	<1.00
Total Suspended Solids	110.000	6.625 *	<1.000	<1.750	<1.378 *	<1.000	<1.130	5.380 *	468.000
Toxaphene						<2.17			
trans-1,2-Dichloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,3-Dichloropropene	<5	<5	<5	<5	<5	<5	<5	<5	<5
trans-1,4-Dichloro-2-Butene	<10	<10	<10	<10	<10	<10	<10	<10	<10
Trichloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	<4	<4	<4	<4	<4	<4	<4	<4	<4
Vanadium	<5.00	<2.00 *	<2.00	<5.00	<5.00	<1.24	<5.00	<5.00	10.10
Vinyl Acetate	<10	<10	<10	<10	<10	<10	<10	<10	<10
Vinyl Chloride	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	<3.00	<3.00	<3.00	<1.49	<3.00	<3.00	<3.00	<3.00	<3.00
Zinc	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<15.1

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-36

Constituents	5/29/2024	10/15/2024
Isodrin		
Isophorone		
Isosafrole		
Kepone		
Lead	6.530	<4.000
MP-Xylene		
Mercury		
Methacrylonitrile		
Methapyrilene		
Methoxychlor		
Methyl Methacrylate		
Methyl Methanesulfonate		
Methylene Bromide	<1	<1
Methylene Chloride	<5	<5
Naphthalene		
Nickel	122.00	6.60
Nitrobenzene		
N-Nitrosodiethylamine		
N-Nitrosodimethylamine		
N-Nitrosodi-n-butylamine		
N-Nitrosodi-n-propylamine		
N-Nitrosodiphenylamine		
N-Nitrosomethylethylamine		
N-Nitrosopiperidine		
N-Nitrosopyrrolidine		
O,O,O-Triethyl Phosphorothioate		
o-Toluidine		
o-Xylene		
Parathion-Ethyl		
Parathion-Methyl		
PCB-1016		
PCB-1221		
PCB-1232		
PCB-1242		
PCB-1248		
PCB-1254		
PCB-1260		
Pentachlorobenzene		
Pentachloronitrobenzene		
Pentachlorophenol [2C]		
Phenacetin		
Phenanthrene		
Phenol		
Phorate		
Pronamide		
Propionitrile		
Pyrene		
Safrole		
Selenium	<5.00	<4.00
Silver	<1.0	<4.0
Styrene	<1	<1
Sulfide		
Tetrachloroethene	<1	<1
Thallium	<1.0	<2.0
Thionazin		
Tin		
Toluene	<1.00	<1.00
Total Suspended Solids	2170.000	
Toxaphene		
trans-1,2-Dichloroethene	<1	<1
trans-1,3-Dichloropropene	<5	<1
trans-1,4-Dichloro-2-Butene	<10	<5
Trichloroethene	<1	<1
Trichlorofluoromethane	<4	<1
Vanadium	30.70	<20.00
Vinyl Acetate	<10	<5
Vinyl Chloride	<1	<1
Xylenes, total	<3.00	<2.00
Zinc	33.2	<20.0

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-37R

Constituents	Units	11/27/2018	3/18/2019	6/5/2019	8/22/2019	12/2/2019	2/28/2020	3/30/2020	11/17/2020
1,1,1,2-Tetrachloroethane	ug/L	<1	<1	<1	<1	<1		<1	<1
1,1,1-Trichloroethane	ug/L	<1	<1	<1	<1	<1		<1	<1
1,1,2,2-Tetrachloroethane	ug/L	<1	<1	<1	<1	<1		<1	<1
1,1,2-Trichloroethane	ug/L	<1	<1	<1	<1	<1		<1	<1
1,1-Dichloroethane	ug/L	<1	<1	<1	<1	<1		<1	<1
1,1-Dichloroethene	ug/L	<2	<2	<2	<2	<2		<2	<2
1,1-Dichloropropene	ug/L							<1	<1
1,2,3-Trichloropropane	ug/L	<1	<1	<1	<1	<1		<1	<1
1,2,4,5-Tetrachlorobenzene	ug/L							<10.2	<10.6
1,2,4-Trichlorobenzene	ug/L							<5	<5
1,2-Dibromo-3-Chloropropane	ug/L	<1.2	<1.2	<1.2	<1.2	<1.2		<5.0	<5.0
1,2-Dibromoethane	ug/L	<.34	<.34	<.34	<.34	<.34		<1.00	<1.00
1,2-Dichlorobenzene	ug/L	<1	<1	<1	<1	<1		<1	<1
1,2-Dichloroethane	ug/L	<1	<1	<1	<1	<1		<1	<1
1,2-Dichloropropane	ug/L	<1	<1	<1	<1	<1		<1	<1
1,3,5-Trinitrobenzene	ug/L							<10.2	<10.6
1,3-Dichlorobenzene	ug/L							<1	<1
1,3-Dichloropropane	ug/L							<1	<1
1,3-Dinitrobenzene	ug/L							<10.2	<10.6
1,4-Dichlorobenzene	ug/L	<1	<1	<1	<1	<1		<1	<1
1,4-Naphthoquinone	ug/L							<10.2	<10.6
1,4-Phenylenediamine	ug/L							<10.2	<10.6
1-Naphthylamine	ug/L							<10.2	<10.6
2,2-Dichloropropane	ug/L							<4	<4
2,3,4,6-Tetrachlorophenol	ug/L							<10.2	<10.6
2,4,5-T [2C]	ug/L							<1.060	<.138
2,4,5-TP [Silvex] [2C]	ug/L							<1.060	<.138
2,4,5-Trichlorophenol	ug/L							<10.2	<10.6
2,4,6-Trichlorophenol	ug/L							<10.2	<10.6
2,4-D [2C]	ug/L							<1.060	<.276
2,4-Dichlorophenol	ug/L							<10.2	<10.6
2,4-Dimethylphenol	ug/L							<10.2	<10.6
2,4-Dinitrophenol	ug/L							<20.4	<21.3
2,4-Dinitrotoluene	ug/L							<10.2	<10.6
2,6-Dichlorophenol	ug/L							<10.2	<10.6
2,6-Dinitrotoluene	ug/L							<10.2	<10.6
2-Acetylaminofluorene	ug/L							<10.2	<10.6
2-Butanone	ug/L	<10	<10	<10	<10	<10		<10	<10
2-Chloronaphthalene	ug/L							<10.2	<10.6
2-Chlorophenol	ug/L							<10.2	<10.6
2-Hexanone	ug/L	<10	<10	<10	<10	<10		<10	<10
2-Methylnaphthalene	ug/L							<10.2	<10.6
2-Methylphenol	ug/L							<10.2	<10.6
2-Naphthylamine	ug/L							<10.2	<10.6
2-Nitroaniline	ug/L							<10.2	<10.6
2-Nitrophenol	ug/L							<10.2	<10.6
3,3-Dichlorobenzidine	ug/L							<10.2	<10.6
3,3-Dimethylbenzidine	ug/L							<10.2	<10.6
3/4-Methylphenol	ug/L							<10.2	<10.6
3-Chloropropene	ug/L							<2	<2
3-Methylcholanthrene	ug/L							<10.2	<10.6
3-Nitroaniline	ug/L							<10.2	<10.6
4,4`-DDD	ug/L							<.0360	<.0348
4,4`-DDE	ug/L							<.03600	<.00274
4,4`-DDT	ug/L							<.0360	<.0348
4,6-Dinitro-2-methylphenol	ug/L							<10.2	<10.6
4-Aminobiphenyl	ug/L							<10.2	<10.6
4-Bromophenyl phenyl ether	ug/L							<10.2	<10.6
4-Chloro-3-methylphenol	ug/L							<10.2	<10.6
4-Chloroaniline	ug/L							<10.2	<10.6
4-Chlorophenyl phenyl ether	ug/L							<10.2	<10.6
4-Methyl-2-Pentanone	ug/L	<10	<10	<10	<10	<10		<10	<10
4-Nitroaniline	ug/L							<10.2	<10.6
4-Nitrophenol	ug/L							<10.2	<10.6
5-Nitro-o-toluidine	ug/L							<10.2	<10.6
7,12-Dimethylbenz [a] anthracene	ug/L							<10.2	<10.6
Acenaphthene	ug/L							<10.2	<10.6
Acenaphthylene	ug/L							<10.2	<10.6
Acetone	ug/L	<10.00	<3.18 *	<10.00	<10.00	<10.00		<10.00	<10.00
Acetonitrile	ug/L							<10000	<10000
Acetophenone	ug/L							<10.2	<10.6
Acrolein	ug/L							<10	<10
Acrylonitrile	ug/L	<10	<10	<10	<10	<10		<5	<5
Aldrin	ug/L							<.0360	<.0348
alpha-BHC	ug/L							<.00382	<.03480
Anthracene	ug/L							<10.2	<10.6
Antimony	ug/L	<1.000	<1.000	<3.000	<1.000	<1.000		<.632	<1.000

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-37R

Constituents	5/6/2021	10/7/2021	4/6/2022	3/8/2023	9/13/2023	5/29/2024	10/15/2024
1,1,1,2-Tetrachloroethane	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethene	<2	<2	<2	<2	<2	<2	<1
1,1-Dichloropropene							
1,2,3-Trichloropropane	<1	<1	<1	<1	<1	<1	<1
1,2,4,5-Tetrachlorobenzene							
1,2,4-Trichlorobenzene							
1,2-Dibromo-3-Chloropropane	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dibromoethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-Dichlorobenzene	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloropropane	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trinitrobenzene							
1,3-Dichlorobenzene							
1,3-Dichloropropane							
1,3-Dinitrobenzene							
1,4-Dichlorobenzene	<1	<1	<1	<1	<1	<1	<1
1,4-Naphthoquinone							
1,4-Phenylenediamine							
1-Naphthylamine							
2,2-Dichloropropane							
2,3,4,6-Tetrachlorophenol							
2,4,5-T [2C]							
2,4,5-TP [Silvex] [2C]							
2,4,5-Trichlorophenol							
2,4,6-Trichlorophenol							
2,4-D [2C]							
2,4-Dichlorophenol							
2,4-Dimethylphenol							
2,4-Dinitrophenol							
2,4-Dinitrotoluene							
2,6-Dichlorophenol							
2,6-Dinitrotoluene							
2-Acetylaminofluorene							
2-Butanone	<10	<10	<10	<10	<10	<10	<10
2-Chloronaphthalene							
2-Chlorophenol							
2-Hexanone	<10	<10	<10	<10	<10	<10	<5
2-Methylnaphthalene							
2-Methylphenol							
2-Naphthylamine							
2-Nitroaniline							
2-Nitrophenol							
3,3-Dichlorobenzidine							
3,3-Dimethylbenzidine							
3/4-Methylphenol							
3-Chloropropene							
3-Methylcholanthrene							
3-Nitroaniline							
4,4`-DDD							
4,4`-DDE							
4,4`-DDT							
4,6-Dinitro-2-methylphenol							
4-Aminobiphenyl							
4-Bromophenyl phenyl ether							
4-Chloro-3-methylphenol							
4-Chloroaniline							
4-Chlorophenyl phenyl ether							
4-Methyl-2-Pentanone	<10	<10	<10	<10	<10	<10	<5
4-Nitroaniline							
4-Nitrophenol							
5-Nitro-o-toluidine							
7,12-Dimethylbenz [a] anthracene							
Acenaphthene							
Acenaphthylene							
Acetone	<10.00	<10.00	<10.00	<10.00	<3.23	<10.00	<10.00
Acetonitrile							
Acetophenone							
Acrolein							
Acrylonitrile	<5	<5	<5	<5	<5	<5	<5
Aldrin							
alpha-BHC							
Anthracene							
Antimony	<2.000	<2.000	<2.000	<1.530	<2.000	<2.000	<2.000

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-37R

Constituents	Units	11/27/2018	3/18/2019	6/5/2019	8/22/2019	12/2/2019	2/28/2020	3/30/2020	11/17/2020
Arsenic	ug/L	<2.000	<2.000	1.210	<2.000	<2.000		<2.000	<1.260
Barium	ug/L	828	887 *	710	879	786	857	805	780
Benzene	ug/L	<.5	<.5	<.5	<.5	<.5		<.5	<.5
Benzo [a] anthracene	ug/L							<10.2	<10.6
Benzo [a] pyrene	ug/L							<10.2	<10.6
Benzo [b] fluoranthene	ug/L							<10.2	<10.6
Benzo [g,h,i] perylene	ug/L							<10.2	<10.6
Benzo [k] fluoranthene	ug/L							<10.2	<10.6
Benzyl alcohol	ug/L							<10.2	<10.6
Beryllium	ug/L	<1.000	<1.000	<1.000	<1.000	<1.000		<1.000	<.342
beta-BHC	ug/L							<.0360	<.0348
Bis[2-chloroethoxy]methane	ug/L							<10.2	<10.6
Bis[2-chloroethyl]ether	ug/L							<10.2	<10.6
Bis[2-chloroisopropyl]ether	ug/L							<10.2	<10.6
Bis[2-ethylhexyl]phthalate	ug/L							<10.2	<10.6
Bromochloromethane	ug/L	<5	<5	<5	<5	<5		<5	<5
Bromodichloromethane	ug/L	<1	<1	<1	<1	<1		<1	<1
Bromoform	ug/L	<5	<5	<5	<5	<5		<5	<5
Bromomethane	ug/L	<4	<4	<4	<4	<4		<4	<4
Butyl benzyl phthalate	ug/L							<10.2	<10.6
Cadmium	ug/L	<.207	<.219 *	<.500	<.219	.133		.118	.474
Carbon Disulfide	ug/L	<1	<1	<1	<1	<1		<1	<1
Carbon Tetrachloride	ug/L	<2	<2	<2	<2	<2		<2	<2
Chlordane	ug/L							<2.25	<2.17
Chlorobenzene	ug/L	<1	<1	<1	<1	<1		<1	<1
Chlorobenzilate	ug/L							<10.2	<10.6
Chlorodibromomethane	ug/L	<5	<5	<5	<5	<5		<5	<5
Chloroethane	ug/L	<4	<4	<4	<4	<4		<4	<4
Chloroform	ug/L	<3	<3	<3	<3	<3		<3	<3
Chloromethane	ug/L	<3	<3	<3	<3	<3		<3	<3
Chloroprene	ug/L							<1	<1
Chromium	ug/L	<5.00	<5.00	<5.00	<5.00	<5.00		<5.00	<2.65
Chrysene	ug/L							<10.2	<10.6
cis-1,2-Dichloroethene	ug/L	<1	<1	<1	<1	<1		<1	<1
cis-1,3-Dichloropropene	ug/L	<5	<5	<5	<5	<5		<5	<5
Cobalt	ug/L	<.156	<.298 *	<1.000	<.500	<.097		<.500	2.210
Copper	ug/L	<5.00	<5.00	<1.26	<5.00	<3.23		<5.00	<3.70
Cyanide	mg/L							<.01	<.01
delta-BHC	ug/L							<.0360	<.0348
Diallate [cis or trans]	ug/L							<10.2	<10.6
Dibenz [a,h] anthracene	ug/L							<10.2	<10.6
Dibenzofuran	ug/L							<10.2	<10.6
Dichlorodifluoromethane	ug/L							<3	<3
Dieldrin	ug/L							<.0360	<.0348
Diethyl phthalate	ug/L							<10.2	<10.6
Dimethoate	ug/L							<10.2	<10.6
Dimethyl phthalate	ug/L							<10.2	<10.6
Dimethylaminoazobenzene	ug/L							<10.2	<10.6
Di-n-butyl phthalate	ug/L							<10.2	<10.6
Di-n-octyl phthalate	ug/L							<20.4	<21.3
Dinoseb	ug/L							<10.2	<10.6
Diphenylamine	ug/L							<10.2	<10.6
Disulfoton	ug/L							<10.2	<10.6
Endosulfan I	ug/L							<.0360	<.0348
Endosulfan II	ug/L							<.0360	<.0348
Endosulfan sulfate	ug/L							<.0360	<.0348
Endrin	ug/L							<.0360	<.0348
Endrin aldehyde	ug/L							<.0360	<.0348
Ethyl Methacrylate	ug/L							<2	<2
Ethyl Methanesulfonate	ug/L							<10.2	<10.6
Ethylbenzene	ug/L	<1	<1	<1	<1	<1		<1	<1
Famphur	ug/L							<10.2	<10.6
Fluoranthene	ug/L							<10.2	<10.6
Fluorene	ug/L							<10.2	<10.6
gamma-BHC [Lindane]	ug/L							<.03600	<.00211
Heptachlor	ug/L							<.0360	<.0348
Heptachlor Epoxide	ug/L							<.0360	<.0348
Hexachlorobenzene	ug/L							<10.2	<10.6
Hexachlorobutadiene	ug/L							<10.2	<10.6
Hexachlorocyclopentadiene	ug/L							<10.2	<10.6
Hexachloroethane	ug/L							<10.2	<10.6
Hexachloropropene	ug/L							<10.2	<10.6
Indeno [1,2,3-cd] pyrene	ug/L							<10.2	<10.6
Iodomethane	ug/L	<10	<10	<10	<10	<10		<10	<10
Isobutanol	ug/L							<10000	<10000
Isodrin	ug/L							<10.2	<10.6
Isophorone	ug/L							<10.2	<10.6

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-37R

Constituents	5/6/2021	10/7/2021	4/6/2022	3/8/2023	9/13/2023	5/29/2024	10/15/2024
Arsenic	<.800 *	<.750	<.888	<.838	<.637	<.772	<4.000
Barium	907 *	911	939	863	693	686	715
Benzene	<.5	<.5	<.5	<.5	<.5	<.5	<1.0
Benzo [a] anthracene							
Benzo [a] pyrene							
Benzo [b] fluoranthene							
Benzo [g,h,i] perylene							
Benzo [k] fluoranthene							
Benzyl alcohol							
Beryllium	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<4.000
beta-BHC							
Bis[2-chloroethoxy]methane							
Bis[2-chloroethyl]ether							
Bis[2-chloroisopropyl]ether							
Bis[2-ethylhexyl]phthalate							
Bromochloromethane	<5	<5	<5	<5	<5	<5	<1
Bromodichloromethane	<1	<1	<1	<1	<1	<1	<1
Bromoform	<5	<5	<5	<5	<5	<5	<1
Bromomethane	<4	<4	<4	<4	<4	<4	<1
Butyl benzyl phthalate							
Cadmium	.345 *	.339	.224	.186	.205	<.159	<.800
Carbon Disulfide	<1	<1	<1	<1	<1	<1	<1
Carbon Tetrachloride	<2	<2	<2	<2	<2	<2	<1
Chlordane							
Chlorobenzene	<1	<1	<1	<1	<1	<1	<1
Chlorobenzilate							
Chlorodibromomethane	<5	<5	<5	<5	<5	<5	<1
Chloroethane	<4	<4	<4	<4	<4	<4	<1
Chloroform	<3	<3	<3	<3	<3	<3	<1
Chloromethane	<3	<3	<3	<3	<3	<3	<1
Chloroprene							
Chromium	<1.34 *	<1.18	<1.94	<5.00	<4.65	<1.61	<8.00
Chrysene							
cis-1,2-Dichloroethene	<1	<1	<1	<1	<1	<1	<1
cis-1,3-Dichloropropene	<5	<5	<5	<5	<5	<5	<1
Cobalt	.742 *	1.380	1.720	.690	1.210	.744	<.400
Copper	<1.81 *	<1.90	<2.43	<5.00	<5.00	<1.92	<4.00
Cyanide							
delta-BHC							
Diallate [cis or trans]							
Dibenz [a,h] anthracene							
Dibenzofuran							
Dichlorodifluoromethane							
Dieldrin							
Diethyl phthalate							
Dimethoate							
Dimethyl phthalate							
Dimethylaminoazobenzene							
Di-n-butyl phthalate							
Di-n-octyl phthalate							
Dinoseb							
Diphenylamine							
Disulfoton							
Endosulfan I							
Endosulfan II							
Endosulfan sulfate							
Endrin							
Endrin aldehyde							
Ethyl Methacrylate							
Ethyl Methanesulfonate							
Ethylbenzene	<1	<1	<1	<1	<1	<1	<1
Famphur							
Fluoranthene							
Fluorene							
gamma-BHC [Lindane]							
Heptachlor							
Heptachlor Epoxide							
Hexachlorobenzene							
Hexachlorobutadiene							
Hexachlorocyclopentadiene							
Hexachloroethane							
Hexachloropropene							
Indeno [1,2,3-cd] pyrene							
Iodomethane	<10	<10	<10	<10	<10	<10	<1
Isobutanol							
Isodrin							
Isophorone							

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-37R

Constituents	Units	11/27/2018	3/18/2019	6/5/2019	8/22/2019	12/2/2019	2/28/2020	3/30/2020	11/17/2020
Isosafrole	ug/L							<10.2	<10.6
Kepone	ug/L							<10.2	<10.6
Lead	ug/L	<.500	<.500	<.500	<.500	.719	<.500	<.500	3.800
Mercury	ug/L							<.2	<.2
Methacrylonitrile	ug/L							<10	<10
Methapyrilene	ug/L							<10.2	<10.6
Methoxychlor	ug/L							<.0360	<.0348
Methyl Methacrylate	ug/L							<2	<2
Methyl Methanesulfonate	ug/L							<10.2	<10.6
Methylene Bromide	ug/L	<1	<1	<1	<1	<1		<1	<1
Methylene Chloride	ug/L	<5	<5	<5	<5	<5		<5	<5
Naphthalene	ug/L							<5	<5
Nickel	ug/L	7.76	7.74 *	4.82	7.65	7.72	7.13	5.90	10.50
Nitrobenzene	ug/L							<10.2	<10.6
N-Nitrosodiethylamine	ug/L							<10.2	<10.6
N-Nitrosodimethylamine	ug/L							<10.2	<10.6
N-Nitrosodi-n-butylamine	ug/L							<10.2	<10.6
N-Nitrosodi-n-propylamine	ug/L							<10.2	<10.6
N-Nitrosodiphenylamine	ug/L							<10.2	<10.6
N-Nitrosomethylethylamine	ug/L							<10.2	<10.6
N-Nitrosopiperidine	ug/L							<10.2	<10.6
N-Nitrosopyrrolidine	ug/L							<10.2	<10.6
O,O,O-Triethyl Phosphorothioate	ug/L							<10.2	<10.6
o-Toluidine	ug/L							<10.2	<10.6
Parathion-Ethyl	ug/L							<10.2	<10.6
Parathion-Methyl	ug/L							<10.2	<10.6
PCB-1016	ug/L							<.899	<.870
PCB-1221	ug/L							<.899	<.870
PCB-1232	ug/L							<.899	<.870
PCB-1242	ug/L							<.899	<.870
PCB-1248	ug/L							<.899	<.870
PCB-1254	ug/L							<.899	<.870
PCB-1260	ug/L							<.899	<.870
Pentachlorobenzene	ug/L							<10.2	<10.6
Pentachloronitrobenzene	ug/L							<10.2	<10.6
Pentachlorophenol [2C]	ug/L							<10.2	<10.6
Phenacetin	ug/L							<10.2	<10.6
Phenanthrene	ug/L							<10.2	<10.6
Phenol	ug/L							<10.2	<10.6
Phorate	ug/L							<10.2	<10.6
Pronamide	ug/L							<10.2	<10.6
Propionitrile	ug/L							<10	<10
Pyrene	ug/L							<10.2	<10.6
Safrole	ug/L							<10.2	<10.6
Selenium	ug/L	12.30	8.08 *	10.00	6.32	5.04	<4.58	5.01	17.90
Silver	ug/L	<1.0	<1.0	<.5	<1.0	<1.0		<1.0	<1.0
Styrene	ug/L	<1	<1	<1	<1	<1		<1	<1
Sulfide	mg/L							<1	<10
Tetrachloroethene	ug/L	<1	<1	<1	<1	<1		<1	<1
Thallium	ug/L	<1	<1	<2	<1	<1		<1	<1
Thionazin	ug/L							<10.2	<10.6
Tin	ug/L							<5	<5
Toluene	ug/L	<1.00	<1.00	<1.00	<1.00	<1.00		<1.00	1.21
Total Suspended Solids	mg/L	3.38	2.69 *	<1.63	<1.50	<1.75	3.13	<1.88	73.50
Toxaphene	ug/L							<2.25	<2.17
trans-1,2-Dichloroethene	ug/L	<1	<1	<1	<1	<1		<1	<1
trans-1,3-Dichloropropene	ug/L	<5	<5	<5	<5	<5		<5	<5
trans-1,4-Dichloro-2-Butene	ug/L	<10	<10	<10	<10	<10		<10	<10
Trichloroethene	ug/L	<1	<1	<1	<1	<1		<1	<1
Trichlorofluoromethane	ug/L	<4	<4	<4	<4	<4		<4	<4
Vanadium	ug/L	<1.660	<1.270 *	<5.000	<1.140	<.949		<.938	8.290
Vinyl Acetate	ug/L	<10	<10	<10	<10	<10		<10	<10
Vinyl Chloride	ug/L	<1	<1	<1	<1	<1		<1	<1
Xylenes, total	ug/L	<3.00	<3.00	<3.00	<3.00	<3.00		<3.00	5.25
Zinc	ug/L	<20.00	<20.00	<20.00	<20.00	<20.00		<20.00	<13.90

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-37R

Constituents	5/6/2021	10/7/2021	4/6/2022	3/8/2023	9/13/2023	5/29/2024	10/15/2024
Isosafrole							
Kepone							
Lead	1.685 *	2.670	3.800	1.590	1.350	2.160	<4.000
Mercury							
Methacrylonitrile							
Methapyrilene							
Methoxychlor							
Methyl Methacrylate							
Methyl Methanesulfonate							
Methylene Bromide	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	<5	<5	<5	<5	<5	<5	<5
Naphthalene							
Nickel	7.83 *	7.68	5.93	<3.66	12.70	<4.80	<4.00
Nitrobenzene							
N-Nitrosodiethylamine							
N-Nitrosodimethylamine							
N-Nitrosodi-n-butylamine							
N-Nitrosodi-n-propylamine							
N-Nitrosodiphenylamine							
N-Nitrosomethylethylamine							
N-Nitrosopiperidine							
N-Nitrosopyrrolidine							
O,O,O-Triethyl Phosphorothioate							
o-Toluidine							
Parathion-Ethyl							
Parathion-Methyl							
PCB-1016							
PCB-1221							
PCB-1232							
PCB-1242							
PCB-1248							
PCB-1254							
PCB-1260							
Pentachlorobenzene							
Pentachloronitrobenzene							
Pentachlorophenol [2C]							
Phenacetin							
Phenanthrene							
Phenol							
Phorate							
Pronamide							
Propionitrile							
Pyrene							
Safrole							
Selenium	12.95 *	11.90	14.30	20.10	55.80	40.50	15.80
Silver	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<4.0
Styrene	<1	<1	<1	<1	<1	<1	<1
Sulfide							
Tetrachloroethene	<1	<1	<1	<1	<1	<1	<1
Thallium	<1	<1	<1	<1	<1	<1	<2
Thionazin							
Tin							
Toluene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Total Suspended Solids	144.00 *	238.00	181.00	88.50	100.00	144.00	
Toxaphene							
trans-1,2-Dichloroethene	<1	<1	<1	<1	<1	<1	<1
trans-1,3-Dichloropropene	<5	<5	<5	<5	<5	<5	<1
trans-1,4-Dichloro-2-Butene	<10	<10	<10	<10	<10	<10	<5
Trichloroethene	<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	<4	<4	<4	<4	<4	<4	<1
Vanadium	<3.025 *	<3.510	5.260	<2.720	<2.200	<3.910	<20.000
Vinyl Acetate	<10	<10	<10	<10	<10	<10	<5
Vinyl Chloride	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<2.00
Zinc	<20.00	<20.00	<20.00	<20.00	<7.27	<20.00	<20.00

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-38R

Constituents	Units	11/27/2018	3/18/2019	6/5/2019	8/22/2019	12/2/2019	2/28/2020	3/30/2020	11/17/2020
1,1,1,2-Tetrachloroethane	ug/L	<1	<1	<1	<1	<1		<1	<1
1,1,1-Trichloroethane	ug/L	<1	<1	<1	<1	<1		<1	<1
1,1,2,2-Tetrachloroethane	ug/L	<1	<1	<1	<1	<1		<1	<1
1,1,2-Trichloroethane	ug/L	<1	<1	<1	<1	<1		<1	<1
1,1-Dichloroethane	ug/L	<1	<1	<1	<1	<1		<1	<1
1,1-Dichloroethene	ug/L	<2	<2	<2	<2	<2		<2	<2
1,1-Dichloropropene	ug/L							<1	<1
1,2,3-Trichloropropane	ug/L	<1	<1	<1	<1	<1		<1	<1
1,2,4,5-Tetrachlorobenzene	ug/L							<10.4	<10.3
1,2,4-Trichlorobenzene	ug/L							<5	<5
1,2-Dibromo-3-Chloropropane	ug/L	<.5	<1.2	<1.2	<1.2	<1.2		<5.0	<5.0
1,2-Dibromoethane	ug/L	<.13	<.34	<.34	<.34	<.34		<1.00	<1.00
1,2-Dichlorobenzene	ug/L	<1	<1	<1	<1	<1		<1	<1
1,2-Dichloroethane	ug/L	<1	<1	<1	<1	<1		<1	<1
1,2-Dichloropropane	ug/L	<1	<1	<1	<1	<1		<1	<1
1,3,5-Trinitrobenzene	ug/L							<10.4	<10.3
1,3-Dichlorobenzene	ug/L							<1	<1
1,3-Dichloropropane	ug/L							<1	<1
1,3-Dinitrobenzene	ug/L							<10.4	<10.3
1,4-Dichlorobenzene	ug/L	<1.000	<1.000	<1.000	<1.000	<1.000		<1.000	<.299
1,4-Naphthoquinone	ug/L							<10.4	<10.3
1,4-Phenylenediamine	ug/L							<10.4	<10.3
1-Naphthylamine	ug/L							<10.4	<10.3
2,2-Dichloropropane	ug/L							<4	<4
2,3,4,6-Tetrachlorophenol	ug/L							<10.4	<10.3
2,4,5-T [2C]	ug/L							<1.010	<.133
2,4,5-TP [Silvex] [2C]	ug/L							<1.010	<.133
2,4,5-Trichlorophenol	ug/L							<10.4	<10.3
2,4,6-Trichlorophenol	ug/L							<10.4	<10.3
2,4-D [2C]	ug/L							<1.010	<.267
2,4-Dichlorophenol	ug/L							<10.4	<10.3
2,4-Dimethylphenol	ug/L							<10.4	<10.3
2,4-Dinitrophenol	ug/L							<20.8	<20.6
2,4-Dinitrotoluene	ug/L							<10.4	<10.3
2,6-Dichlorophenol	ug/L							<10.4	<10.3
2,6-Dinitrotoluene	ug/L							<10.4	<10.3
2-Acetylaminofluorene	ug/L							<10.4	<10.3
2-Butanone	ug/L	<10	<10	<10	<10	<10		<10	<10
2-Chloronaphthalene	ug/L							<10.4	<10.3
2-Chlorophenol	ug/L							<10.4	<10.3
2-Hexanone	ug/L	<10	<10	<10	<10	<10		<10	<10
2-Methylnaphthalene	ug/L							<10.4	<10.3
2-Methylphenol	ug/L							<10.4	<10.3
2-Naphthylamine	ug/L							<10.4	<10.3
2-Nitroaniline	ug/L							<10.4	<10.3
2-Nitrophenol	ug/L							<10.4	<10.3
3,3-Dichlorobenzidine	ug/L							<10.4	<10.3
3,3-Dimethylbenzidine	ug/L							<10.4	<10.3
3/4-Methylphenol	ug/L							<10.4	<10.3
3-Chloropropene	ug/L							<2	<2
3-Methylcholanthrene	ug/L							<10.4	<10.3
3-Nitroaniline	ug/L							<10.4	<10.3
4,4`-DDD	ug/L							<.0356	<.0337
4,4`-DDE	ug/L							<.0356	<.0337
4,4`-DDT	ug/L							<.00774	<.03370
4,6-Dinitro-2-methylphenol	ug/L							<10.4	<10.3
4-Aminobiphenyl	ug/L							<10.4	<10.3
4-Bromophenyl phenyl ether	ug/L							<10.4	<10.3
4-Chloro-3-methylphenol	ug/L							<10.4	<10.3
4-Chloroaniline	ug/L							<10.4	<10.3
4-Chlorophenyl phenyl ether	ug/L							<10.4	<10.3
4-Methyl-2-Pentanone	ug/L	<10	<10	<10	<10	<10		<10	<10
4-Nitroaniline	ug/L							<10.4	<10.3
4-Nitrophenol	ug/L							<10.4	<10.3
5-Nitro-o-toluidine	ug/L							<10.4	<10.3
7,12-Dimethylbenz [a] anthracene	ug/L							<10.4	<10.3
Acenaphthene	ug/L							<10.4	<10.3
Acenaphthylene	ug/L							<10.4	<10.3
Acetone	ug/L	<10.00	<3.41	<10.00	<10.00	<10.00		<10.00	<10.00
Acetonitrile	ug/L							<10000	<10000
Acetophenone	ug/L							<10.4	<10.3
Acrolein	ug/L							<10	<10
Acrylonitrile	ug/L	<10	<10	<10	<10	<10		<5	<5
Aldrin	ug/L							<.0356	<.0337
alpha-BHC	ug/L							<.00352	<.00277
Anthracene	ug/L							<10.4	<10.3
Antimony	ug/L	<1	<1	<3	<1	<1		<1	<1

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-38R

Constituents	5/6/2021	4/6/2022	8/23/2022	3/8/2023	9/13/2023	5/29/2024	10/15/2024
1,1,1,2-Tetrachloroethane	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethene	<2	<2	<2	<2	<2	<2	<1
1,1-Dichloropropene							
1,2,3-Trichloropropane	<1	<1	<1	<1	<1	<1	<1
1,2,4,5-Tetrachlorobenzene							
1,2,4-Trichlorobenzene							
1,2-Dibromo-3-Chloropropane	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dibromoethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-Dichlorobenzene	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloropropane	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trinitrobenzene							
1,3-Dichlorobenzene							
1,3-Dichloropropane							
1,3-Dinitrobenzene							
1,4-Dichlorobenzene	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000
1,4-Naphthoquinone							
1,4-Phenylenediamine							
1-Naphthylamine							
2,2-Dichloropropane							
2,3,4,6-Tetrachlorophenol							
2,4,5-T [2C]							
2,4,5-TP [Silvex] [2C]							
2,4,5-Trichlorophenol							
2,4,6-Trichlorophenol							
2,4-D [2C]							
2,4-Dichlorophenol							
2,4-Dimethylphenol							
2,4-Dinitrophenol							
2,4-Dinitrotoluene							
2,6-Dichlorophenol							
2,6-Dinitrotoluene							
2-Acetylaminofluorene							
2-Butanone	<10	<10	<10	<10	<10	<10	<10
2-Chloronaphthalene							
2-Chlorophenol							
2-Hexanone	<10	<10	<10	<10	<10	<10	<5
2-Methylnaphthalene							
2-Methylphenol							
2-Naphthylamine							
2-Nitroaniline							
2-Nitrophenol							
3,3-Dichlorobenzidine							
3,3-Dimethylbenzidine							
3/4-Methylphenol							
3-Chloropropene							
3-Methylcholanthrene							
3-Nitroaniline							
4,4`-DDD							
4,4`-DDE							
4,4`-DDT							
4,6-Dinitro-2-methylphenol							
4-Aminobiphenyl							
4-Bromophenyl phenyl ether							
4-Chloro-3-methylphenol							
4-Chloroaniline							
4-Chlorophenyl phenyl ether							
4-Methyl-2-Pentanone	<10	<10	<10	<10	<10	<10	<5
4-Nitroaniline							
4-Nitrophenol							
5-Nitro-o-toluidine							
7,12-Dimethylbenz [a] anthracene							
Acenaphthene							
Acenaphthylene							
Acetone	<10.00	<10.00	<10.00	<10.00	<4.34	<10.00	<10.00
Acetonitrile							
Acetophenone							
Acrolein							
Acrylonitrile	<5	<5	<5	<5	<5	<5	<5
Aldrin							
alpha-BHC							
Anthracene							
Antimony	<2	<2	<2	<2	<2	<2	<2

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-38R

Constituents	Units	11/27/2018	3/18/2019	6/5/2019	8/22/2019	12/2/2019	2/28/2020	3/30/2020	11/17/2020
Arsenic	ug/L	<2.000	<2.000	1.390	<2.000	<.842		<2.000	<2.000
Barium	ug/L	342	439	539	650	592	711	679	536
Benzene	ug/L	<.5	<.5	<.5	<.5	<.5		<.5	<.5
Benzo [a] anthracene	ug/L							<10.4	<10.3
Benzo [a] pyrene	ug/L							<10.4	<10.3
Benzo [b] fluoranthene	ug/L							<10.4	<10.3
Benzo [g,h,i] perylene	ug/L							<10.4	<10.3
Benzo [k] fluoranthene	ug/L							<10.4	<10.3
Benzyl alcohol	ug/L							<10.4	<10.3
Beryllium	ug/L	<1	<1	<1	<1	<1		<1	<1
beta-BHC	ug/L							<.0356	<.0337
Bis[2-chloroethoxy]methane	ug/L							<10.4	<10.3
Bis[2-chloroethyl]ether	ug/L							<10.4	<10.3
Bis[2-chloroisopropyl]ether	ug/L							<10.4	<10.3
Bis[2-ethylhexyl]phthalate	ug/L							<10.4	<10.3
Bromochloromethane	ug/L	<5	<5	<5	<5	<5		<5	<5
Bromodichloromethane	ug/L	<1	<1	<1	<1	<1		<1	<1
Bromoform	ug/L	<5	<5	<5	<5	<5		<5	<5
Bromomethane	ug/L	<4	<4	<4	<4	<4		<4	<4
Butyl benzyl phthalate	ug/L							<10.4	<10.3
Cadmium	ug/L	<.132	<.151	<.275	<.398	.321	.391	.525	.220
Carbon Disulfide	ug/L	<1	<1	<1	<1	<1		<1	<1
Carbon Tetrachloride	ug/L	<2	<2	<2	<2	<2		<2	<2
Chlordane	ug/L							<2.22	<2.11
Chlorobenzene	ug/L	<1	<1	<1	<1	<1		<1	<1
Chlorobenzilate	ug/L							<10.4	<10.3
Chlorodibromomethane	ug/L	<5	<5	<5	<5	<5		<5	<5
Chloroethane	ug/L	<4	<4	<4	<4	<4		<4	<4
Chloroform	ug/L	<3	<3	<3	<3	<3		<3	<3
Chloromethane	ug/L	<3	<3	<3	<3	<3		<3	<3
Chloroprene	ug/L							<1	<1
Chromium	ug/L	<5.00	<5.00	<5.00	14.60	<5.00		<5.00	<5.00
Chrysene	ug/L							<10.4	<10.3
cis-1,2-Dichloroethene	ug/L	<1	<1	<1	<1	<1		<1	<1
cis-1,3-Dichloropropene	ug/L	<5	<5	<5	<5	<5		<5	<5
Cobalt	ug/L	<.429	<.470	1.360	1.130	3.840	2.620	3.170	<.213
Copper	ug/L	<5.00	<5.00	<1.92	<5.00	<5.00		<5.00	<1.90
Cyanide	mg/L							<.01	<.01
delta-BHC	ug/L							<.0356	<.0337
Diallate [cis or trans]	ug/L							<10.4	<10.3
Dibenz [a,h] anthracene	ug/L							<10.4	<10.3
Dibenzofuran	ug/L							<10.4	<10.3
Dichlorodifluoromethane	ug/L							<3	<3
Dieldrin	ug/L							<.00242	<.03370
Diethyl phthalate	ug/L							<10.4	<10.3
Dimethoate	ug/L							<10.4	<10.3
Dimethyl phthalate	ug/L							<10.4	<10.3
Dimethylaminoazobenzene	ug/L							<10.4	<10.3
Di-n-butyl phthalate	ug/L							<10.4	<10.3
Di-n-octyl phthalate	ug/L							<20.8	<20.6
Dinoseb	ug/L							<10.4	<10.3
Diphenylamine	ug/L							<10.4	<10.3
Disulfoton	ug/L							<10.4	<10.3
Endosulfan I	ug/L							<.0356	<.0337
Endosulfan II	ug/L							<.0356	<.0337
Endosulfan sulfate	ug/L							<.03560	<.00905
Endrin	ug/L							<.00647	<.00544
Endrin aldehyde	ug/L							<.0356	<.0337
Ethyl Methacrylate	ug/L							<2	<2
Ethyl Methanesulfonate	ug/L							<10.4	<10.3
Ethylbenzene	ug/L	<1.000	<1.000	<1.000	<1.000	<1.000		<1.000	<.438
Famphur	ug/L							<10.4	<10.3
Fluoranthene	ug/L							<10.4	<10.3
Fluorene	ug/L							<10.4	<10.3
gamma-BHC [Lindane]	ug/L							<.0356	<.0337
Heptachlor	ug/L							<.0356	<.0337
Heptachlor Epoxide	ug/L							<.0356	<.0337
Hexachlorobenzene	ug/L							<10.4	<10.3
Hexachlorobutadiene	ug/L							<10.4	<10.3
Hexachlorocyclopentadiene	ug/L							<10.4	<10.3
Hexachloroethane	ug/L							<10.4	<10.3
Hexachloropropene	ug/L							<10.4	<10.3
Indeno [1,2,3-cd] pyrene	ug/L							<10.4	<10.3
Iodomethane	ug/L	<10	<10	<10	<10	<10		<10	<10
Isobutanol	ug/L							<10000	<10000
Isodrin	ug/L							<10.4	<10.3
Isophorone	ug/L							<10.4	<10.3

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-38R

Constituents	5/6/2021	4/6/2022	8/23/2022	3/8/2023	9/13/2023	5/29/2024	10/15/2024
Arsenic	<2.000	<2.000	<2.000	<2.000	<2.000	<.543	15.700
Barium	453	310	348	261	212	273	337
Benzene	<.5	<.5	<.5	<.5	<.5	<.5	<1.0
Benzo [a] anthracene							
Benzo [a] pyrene							
Benzo [b] fluoranthene							
Benzo [g,h,i] perylene							
Benzo [k] fluoranthene							
Benzyl alcohol							
Beryllium	<1	<1	<1	<1	<1	<1	<4
beta-BHC							
Bis[2-chloroethoxy]methane							
Bis[2-chloroethyl]ether							
Bis[2-chloroisopropyl]ether							
Bis[2-ethylhexyl]phthalate							
Bromochloromethane	<5	<5	<5	<5	<5	<5	<1
Bromodichloromethane	<1	<1	<1	<1	<1	<1	<1
Bromoform	<5	<5	<5	<5	<5	<5	<1
Bromomethane	<4	<4	<4	<4	<4	<4	<1
Butyl benzyl phthalate							
Cadmium	.276	.197	.161	<.078	<.200	<.125	1.900
Carbon Disulfide	<1	<1	<1	<1	<1	<1	<1
Carbon Tetrachloride	<2	<2	<2	<2	<2	<2	<1
Chlordane							
Chlorobenzene	<1	<1	<1	<1	<1	<1	<1
Chlorobenzilate							
Chlorodibromomethane	<5	<5	<5	<5	<5	<5	<1
Chloroethane	<4	<4	<4	<4	<4	<4	<1
Chloroform	<3	<3	<3	<3	<3	<3	<1
Chloromethane	<3	<3	<3	<3	<3	<3	<1
Chloroprene							
Chromium	<5.00	<5.00	<5.00	<4.57	<3.75	177.00	218.00
Chrysene							
cis-1,2-Dichloroethene	<1	<1	<1	<1	<1	<1	<1
cis-1,3-Dichloropropene	<5	<5	<5	<5	<5	<5	<1
Cobalt	.501	<.477	<.261	<.323	<.185	2.870	16.800
Copper	<2.45	<2.01	<5.00	<5.00	<5.00	5.88	23.90
Cyanide							
delta-BHC							
Diallate [cis or trans]							
Dibenz [a,h] anthracene							
Dibenzofuran							
Dichlorodifluoromethane							
Dieldrin							
Diethyl phthalate							
Dimethoate							
Dimethyl phthalate							
Dimethylaminoazobenzene							
Di-n-butyl phthalate							
Di-n-octyl phthalate							
Dinoseb							
Diphenylamine							
Disulfoton							
Endosulfan I							
Endosulfan II							
Endosulfan sulfate							
Endrin							
Endrin aldehyde							
Ethyl Methacrylate							
Ethyl Methanesulfonate							
Ethylbenzene	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000
Famphur							
Fluoranthene							
Fluorene							
gamma-BHC [Lindane]							
Heptachlor							
Heptachlor Epoxide							
Hexachlorobenzene							
Hexachlorobutadiene							
Hexachlorocyclopentadiene							
Hexachloroethane							
Hexachloropropene							
Indeno [1,2,3-cd] pyrene							
Iodomethane	<10	<10	<10	<10	<10	<10	<1
Isobutanol							
Isodrin							
Isophorone							

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-38R

Constituents	Units	11/27/2018	3/18/2019	6/5/2019	8/22/2019	12/2/2019	2/28/2020	3/30/2020	11/17/2020
Isosafrole	ug/L							<10.4	<10.3
Kepone	ug/L							<10.4	<10.3
Lead	ug/L	<.500	<.500	<.500	<.286	<.278		<.403	<.500
Mercury	ug/L							<.2	<.2
Methacrylonitrile	ug/L							<10	<10
Methapyrilene	ug/L							<10.4	<10.3
Methoxychlor	ug/L							<.0356	<.0337
Methyl Methacrylate	ug/L							<2	<2
Methyl Methanesulfonate	ug/L							<10.4	<10.3
Methylene Bromide	ug/L	<1	<1	<1	<1	<1		<1	<1
Methylene Chloride	ug/L	<5	<5	<5	<5	<5		<10	<5
Naphthalene	ug/L							<5.00	<3.55
Nickel	ug/L	6.25	<3.98	11.00	10.80	10.80	10.50	8.99	8.11
Nitrobenzene	ug/L							<10.4	<10.3
N-Nitrosodiethylamine	ug/L							<10.4	<10.3
N-Nitrosodimethylamine	ug/L							<10.4	<10.3
N-Nitrosodi-n-butylamine	ug/L							<10.4	<10.3
N-Nitrosodi-n-propylamine	ug/L							<10.4	<10.3
N-Nitrosodiphenylamine	ug/L							<10.4	<10.3
N-Nitrosomethylethylamine	ug/L							<10.4	<10.3
N-Nitrosopiperidine	ug/L							<10.4	<10.3
N-Nitrosopyrrolidine	ug/L							<10.4	<10.3
O,O,O-Triethyl Phosphorothioate	ug/L							<10.4	<10.3
o-Toluidine	ug/L							<10.4	<10.3
Parathion-Ethyl	ug/L							<10.4	<10.3
Parathion-Methyl	ug/L							<10.4	<10.3
PCB-1016	ug/L							<.889	<.842
PCB-1221	ug/L							<.889	<.842
PCB-1232	ug/L							<.889	<.842
PCB-1242	ug/L							<.889	<.842
PCB-1248	ug/L							<.889	<.842
PCB-1254	ug/L							<.889	<.842
PCB-1260	ug/L							<.889	<.842
Pentachlorobenzene	ug/L							<10.4	<10.3
Pentachloronitrobenzene	ug/L							<10.4	<10.3
Pentachlorophenol [2C]	ug/L							<10.4	<10.3
Phenacetin	ug/L							<10.4	<10.3
Phenanthrene	ug/L							<10.4	<10.3
Phenol	ug/L							<10.4	<10.3
Phorate	ug/L							<10.4	<10.3
Pronamide	ug/L							<10.4	<10.3
Propionitrile	ug/L							<10	<10
Pyrene	ug/L							<10.4	<10.3
Safrole	ug/L							<10.4	<10.3
Selenium	ug/L	<5.00	<5.00	<2.50	<5.00	<5.00		<5.00	<5.00
Silver	ug/L	<1.0	<1.0	<.5	<1.0	<1.0		<1.0	<1.0
Styrene	ug/L	<1.000	<1.000	<1.000	<1.000	<1.000		<1.000	<.907
Sulfide	mg/L	<1						<1	<10
Tetrachloroethene	ug/L	<1	<1	<1	<1	<1		<1	<1
Thallium	ug/L	<1	<1	<2	<1	<1		<1	<1
Thionazin	ug/L							<10.4	<10.3
Tin	ug/L	<5						<5	<5
Toluene	ug/L	<1.000	<1.000	<1.000	<1.000	<1.000		<1.000	2.120
Total Suspended Solids	mg/L	12.800	3.250	2.500	7.370	11.000	4.750	8.000	<.875
Toxaphene	ug/L							<2.22	<2.11
trans-1,2-Dichloroethene	ug/L	<1	<1	<1	<1	<1		<1	<1
trans-1,3-Dichloropropene	ug/L	<5	<5	<5	<5	<5		<5	<5
trans-1,4-Dichloro-2-Butene	ug/L	<10	<10	<10	<10	<10		<10	<10
Trichloroethene	ug/L	<1	<1	<1	<1	<1		<1	<1
Trichlorofluoromethane	ug/L	<4	<4	<4	<4	<4		<4	<4
Vanadium	ug/L	<1.070	<.931	<5.000	<1.310	<.995		<1.480	<1.540
Vinyl Acetate	ug/L	<10	<10	<10	<10	<10		<10	<10
Vinyl Chloride	ug/L	<1	<1	<1	<1	<1		<1	<1
Xylenes, total	ug/L	<3.000	<3.000	<3.000	<3.000	<3.000		<3.000	10.200
Zinc	ug/L	<20	<20	<20	<20	<20		<20	<20

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-38R

Constituents	5/6/2021	4/6/2022	8/23/2022	3/8/2023	9/13/2023	5/29/2024	10/15/2024
Isosafrole							
Kepone							
Lead	.601	.684	<.363	<.500	<.500	<.314	14.500
Mercury							
Methacrylonitrile							
Methapyrilene							
Methoxychlor							
Methyl Methacrylate							
Methyl Methanesulfonate							
Methylene Bromide	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	<5	<5	<5	<5	<5	<5	<5
Naphthalene							
Nickel	7.39	<2.77	<4.46	5.69	<4.09	135.00	145.00
Nitrobenzene							
N-Nitrosodiethylamine							
N-Nitrosodimethylamine							
N-Nitrosodi-n-butylamine							
N-Nitrosodi-n-propylamine							
N-Nitrosodiphenylamine							
N-Nitrosomethylethylamine							
N-Nitrosopiperidine							
N-Nitrosopyrrolidine							
O,O,O-Triethyl Phosphorothioate							
o-Toluidine							
Parathion-Ethyl							
Parathion-Methyl							
PCB-1016							
PCB-1221							
PCB-1232							
PCB-1242							
PCB-1248							
PCB-1254							
PCB-1260							
Pentachlorobenzene							
Pentachloronitrobenzene							
Pentachlorophenol [2C]							
Phenacetin							
Phenanthrene							
Phenol							
Phorate							
Pronamide							
Propionitrile							
Pyrene							
Safrole							
Selenium	<1.77	13.60	10.30	29.10	26.40	43.20	7.80
Silver	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<4.0
Styrene	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000
Sulfide							
Tetrachloroethene	<1	<1	<1	<1	<1	<1	<1
Thallium	<1	<1	<1	<1	<1	<1	<2
Thionazin							
Tin							
Toluene	<1.000	<.519	<1.000	<1.000	<1.000	<1.000	<1.000
Total Suspended Solids	38.700	23.500	4.370	3.750	3.750	22.800	
Toxaphene							
trans-1,2-Dichloroethene	<1	<1	<1	<1	<1	<1	<1
trans-1,3-Dichloropropene	<5	<5	<5	<5	<5	<5	<1
trans-1,4-Dichloro-2-Butene	<10	<10	<10	<10	<10	<10	<5
Trichloroethene	<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	<4	<4	<4	<4	<4	<4	<1
Vanadium	<2.520	<2.760	<1.370	<5.000	<5.000	<2.230	59.300
Vinyl Acetate	<10	<10	<10	<10	<10	<10	<5
Vinyl Chloride	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	<3.000	<.461	<3.000	<3.000	<3.000	<3.000	<2.000
Zinc	<20	<20	<20	<20	<20	<20	44

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-39

Constituents	Units	8/21/2009	12/15/2009	2/18/2010	3/11/2010	5/27/2010	8/31/2010	11/4/2010	2/16/2011
1,1,1,2-Tetrachloroethane	ug/L	<1	<1	<2	<1	<4	<1	<1	<1
1,1,1-Trichloroethane	ug/L	<1	<1	<1	<5	<4	<1	<1	<1
1,1,2,2-Tetrachloroethane	ug/L	<1	<1	<2	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethene	ug/L	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloropropene	ug/L								
1,2,3-Trichloropropane	ug/L	<1.0	<1.0	<2.0	<2.5	<1.0	<1.0	<1.0	<1.0
1,2,4,5-Tetrachlorobenzene	ug/L								
1,2,4-Trichlorobenzene	ug/L								
1,2-Dibromo-3-Chloropropane	ug/L	<.498	<.498	<.498	<.498	<.498	<.498	<.120	<.120
1,2-Dibromoethane	ug/L	<.255	<.255	<.255	<.255	<.255	<.255	<.130	<.130
1,2-Dichlorobenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloropropane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trinitrobenzene	ug/L								
1,3-Dichlorobenzene	ug/L								
1,3-Dichloropropane	ug/L								
1,3-Dinitrobenzene	ug/L								
1,4-Dichlorobenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1
1,4-Naphthoquinone	ug/L								
1,4-Phenylenediamine	ug/L								
1-Naphthylamine	ug/L								
2,2-Dichloropropane	ug/L								
2,3,4,6-Tetrachlorophenol	ug/L								
2,4,5-T [2C]	ug/L								
2,4,5-TP [Silvex] [2C]	ug/L								
2,4,5-Trichlorophenol	ug/L								
2,4,6-Trichlorophenol	ug/L								
2,4-D [2C]	ug/L								
2,4-Dichlorophenol	ug/L								
2,4-Dimethylphenol	ug/L								
2,4-Dinitrophenol	ug/L								
2,4-Dinitrotoluene	ug/L								
2,6-Dichlorophenol	ug/L								
2,6-Dinitrotoluene	ug/L								
2-Acetylaminofluorene	ug/L								
2-Butanone	ug/L	<10	<10	<10	<10	<10	<10	<10	<10
2-Chloronaphthalene	ug/L								
2-Chlorophenol	ug/L								
2-Hexanone	ug/L	<10	<10	<10	<10	<20	<10	<10	<10
2-Methylnaphthalene	ug/L								
2-Methylphenol	ug/L								
2-Naphthylamine	ug/L								
2-Nitroaniline	ug/L								
2-Nitrophenol	ug/L								
3,3-Dichlorobenzidine	ug/L								
3,3-Dimethylbenzidine	ug/L								
3/4-Methylphenol	ug/L								
3-Chloropropene	ug/L								
3-Methylcholanthrene	ug/L								
3-Nitroaniline	ug/L								
4,4`-DDD	ug/L								
4,4`-DDE	ug/L								
4,4`-DDT	ug/L								
4,6-Dinitro-2-methylphenol	ug/L								
4-Aminobiphenyl	ug/L								
4-Bromophenyl phenyl ether	ug/L								
4-Chloro-3-methylphenol	ug/L								
4-Chloroaniline	ug/L								
4-Chlorophenyl phenyl ether	ug/L								
4-Methyl-2-Pentanone	ug/L	<10	<10	<10	<10	<10	<10	<10	<10
4-Nitroaniline	ug/L								
4-Nitrophenol	ug/L								
5-Nitro-o-toluidine	ug/L								
7,12-Dimethylbenz [a] anthracene	ug/L								
Acenaphthene	ug/L								
Acenaphthylene	ug/L								
Acetone	ug/L	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00
Acetonitrile	ug/L								
Acetophenone	ug/L								
Acrolein	ug/L								
Acrylonitrile	ug/L	<10	<10	<10	<10	<10	<10	<10	<10
Aldrin	ug/L								
alpha-BHC	ug/L								
alpha-Chlordane	ug/L								
Anthracene	ug/L								

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-39

Constituents	7/7/2011	10/27/2011	4/26/2012	10/9/2012	2/20/2013	10/3/2013	4/22/2014	10/14/2014	5/12/2015
1,1,1,2-Tetrachloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	<1	<1	<1	<2	<1	<1	<1	<1	<1
1,1-Dichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethene	<2	<2	<1	<2	<2	<2	<2	<2	<2
1,1-Dichloropropene	<1			<1					
1,2,3-Trichloropropane	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,4,5-Tetrachlorobenzene	<10.0			<10.0					
1,2,4-Trichlorobenzene	<5			<5					
1,2-Dibromo-3-Chloropropane	<10.000	<.120	<.200	<.120	<.120	<.120	<.120	<.120	<.500
1,2-Dibromoethane	<10.000	<.130	<.050	<.130	<.130	<.130	<.130	<.130	<.130
1,2-Dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trinitrobenzene	<10.0			<10.0					
1,3-Dichlorobenzene	<1			<1					
1,3-Dichloropropane	<1			<1					
1,3-Dinitrobenzene	<10.0			<10.0					
1,4-Dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-Naphthoquinone	<10.0			<10.0					
1,4-Phenylenediamine	<10.0			<10.0					
1-Naphthylamine	<10.0			<10.0					
2,2-Dichloropropane	<4			<4					
2,3,4,6-Tetrachlorophenol	<10.0			<10.0					
2,4,5-T [2C]	<.24			<.45					
2,4,5-TP [Silvex] [2C]	<.24			<.30					
2,4,5-Trichlorophenol	<10.0			<10.0					
2,4,6-Trichlorophenol	<10.0			<10.0					
2,4-D [2C]	<.45			<.48					
2,4-Dichlorophenol	<10.0			<10.0					
2,4-Dimethylphenol	<10.0			<10.0					
2,4-Dinitrophenol	<20			<20					
2,4-Dinitrotoluene	<10.0			<10.0					
2,6-Dichlorophenol	<10.0			<10.0					
2,6-Dinitrotoluene	<10.0			<10.0					
2-Acetylaminofluorene	<10.0			<10.0					
2-Butanone	<10	<10	<10	<10	<10	<10	<10	<10	<10
2-Chloronaphthalene	<10.0			<10.0					
2-Chlorophenol	<10.0			<10.0					
2-Hexanone	<10	<10	<10	<10	<10	<10	<10	<10	<10
2-Methylnaphthalene	<10.0			<10.0					
2-Methylphenol	<10.0			<10.0					
2-Naphthylamine	<10.0			<10.0					
2-Nitroaniline	<10.0			<10.0					
2-Nitrophenol	<10.0			<10.0					
3,3-Dichlorobenzidine	<10.0			<10.0					
3,3-Dimethylbenzidine	<10.0			<10.0					
3/4-Methylphenol	<10.0			<10.0					
3-Chloropropene	<2			<2					
3-Methylcholanthrene	<10.0			<10.0					
3-Nitroaniline	<10.0			<10.0					
4,4`-DDD	<.0320			<.0320					
4,4`-DDE	<.0320			<.0320					
4,4`-DDT	<.0320			<.0320					
4,6-Dinitro-2-methylphenol	<10.0			<10.0					
4-Aminobiphenyl	<10.0			<10.0					
4-Bromophenyl phenyl ether	<10.0			<10.0					
4-Chloro-3-methylphenol	<10.0			<10.0					
4-Chloroaniline	<10.0			<10.0					
4-Chlorophenyl phenyl ether	<10.0			<10.0					
4-Methyl-2-Pentanone	<10	<10	<10	<10	<10	<10	<10	<10	<10
4-Nitroaniline	<10.0			<10.0					
4-Nitrophenol	<10.0			<10.0					
5-Nitro-o-toluidine	<10.0			<10.0					
7,12-Dimethylbenz [a] anthracene	<10.0			<10.0					
Acenaphthene	<10.0			<10.0					
Acenaphthylene	<10.0			<10.0					
Acetone	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00
Acetonitrile	<10000			<10000					
Acetophenone	<10.0			<10.0					
Acrolein	<10			<10					
Acrylonitrile	<10	<10	<5	<10	<10	<10	<10	<10	<10
Aldrin	<.0320			<.0320					
alpha-BHC	<.0320			<.0320					
alpha-Chlordane				<.032					
Anthracene	<10.0			<10.0					

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-39

Constituents	7/29/2015	2/15/2016	10/31/2016	3/27/2017	11/13/2017	6/6/2018	11/27/2018	3/18/2019	12/2/2019
1,1,1,2-Tetrachloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethene	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloropropene				<1					
1,2,3-Trichloropropane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,4,5-Tetrachlorobenzene				<11.5					
1,2,4-Trichlorobenzene				<5					
1,2-Dibromo-3-Chloropropane	<.500	<.500	<.500	<.500	<.500	<.500	<1.200	<1.200	<1.200
1,2-Dibromoethane	<.130	<.130	<.130	<.130	<.130	<.130	<.340	<.340	<.340
1,2-Dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trinitrobenzene				<11.5					
1,3-Dichlorobenzene				<1					
1,3-Dichloropropane				<1					
1,3-Dinitrobenzene				<11.5					
1,4-Dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-Naphthoquinone				<11.5					
1,4-Phenylenediamine				<11.5					
1-Naphthylamine				<11.5					
2,2-Dichloropropane				<4					
2,3,4,6-Tetrachlorophenol				<11.5					
2,4,5-T [2C]				<1.32					
2,4,5-TP [Silvex] [2C]				<1.32					
2,4,5-Trichlorophenol				<11.5					
2,4,6-Trichlorophenol				<11.5					
2,4-D [2C]				<1.32					
2,4-Dichlorophenol				<11.5					
2,4-Dimethylphenol				<11.5					
2,4-Dinitrophenol				<23					
2,4-Dinitrotoluene				<11.5					
2,6-Dichlorophenol				<11.5					
2,6-Dinitrotoluene				<11.5					
2-Acetylaminofluorene				<11.5					
2-Butanone	<10	<10	<10	<10	<10	<10	<10	<10	<10
2-Chloronaphthalene				<11.5					
2-Chlorophenol				<11.5					
2-Hexanone	<10	<10	<10	<10	<10	<10	<10	<10	<10
2-Methylnaphthalene				<11.5					
2-Methylphenol				<11.5					
2-Naphthylamine				<11.5					
2-Nitroaniline				<11.5					
2-Nitrophenol				<11.5					
3,3-Dichlorobenzidine				<57.5					
3,3-Dimethylbenzidine				<11.5					
3/4-Methylphenol				<11.5					
3-Chloropropene				<2					
3-Methylcholanthrene				<11.5					
3-Nitroaniline				<11.5					
4,4`-DDD				<.0320					
4,4`-DDE				<.0320					
4,4`-DDT				<.0320					
4,6-Dinitro-2-methylphenol				<11.5					
4-Aminobiphenyl				<11.5					
4-Bromophenyl phenyl ether				<11.5					
4-Chloro-3-methylphenol				<11.5					
4-Chloroaniline				<11.5					
4-Chlorophenyl phenyl ether				<11.5					
4-Methyl-2-Pentanone	<10	<10	<10	<10	<10	<10	<10	<10	<10
4-Nitroaniline				<11.5					
4-Nitrophenol				<11.5					
5-Nitro-o-toluidine				<11.5					
7,12-Dimethylbenz [a] anthracene				<11.5					
Acenaphthene				<11.5					
Acenaphthylene				<11.5					
Acetone	<10.00	<10.00	<10.00	<10.00	<2.76 *	<10.00	<10.00	<10.00	<10.00
Acetonitrile				<10000					
Acetophenone				<11.5					
Acrolein				<10					
Acrylonitrile	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aldrin				<.0320					
alpha-BHC				<.0320					
alpha-Chlordane									
Anthracene				<11.5					

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-39

Constituents	3/30/2020	11/17/2020	5/6/2021	10/7/2021	4/6/2022	8/23/2022	3/8/2023	9/13/2023	5/29/2024
1,1,1,2-Tetrachloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethene	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-Dichloropropene					<1				
1,2,3-Trichloropropane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,4,5-Tetrachlorobenzene					<10.0				
1,2,4-Trichlorobenzene					<5				
1,2-Dibromo-3-Chloropropane	<5.000	<5.000	<5.000	<5.000	<5.000	<5.000	<5.000	<5.000	<5.000
1,2-Dibromoethane	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000
1,2-Dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trinitrobenzene					<10.0				
1,3-Dichlorobenzene					<1				
1,3-Dichloropropane					<1				
1,3-Dinitrobenzene					<10.0				
1,4-Dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-Naphthoquinone					<10.0				
1,4-Phenylenediamine					<10.0				
1-Naphthylamine					<10.0				
2,2-Dichloropropane					<4				
2,3,4,6-Tetrachlorophenol					<10.0				
2,4,5-T [2C]					<1.03				
2,4,5-TP [Silvex] [2C]					<1.03				
2,4,5-Trichlorophenol					<10.0				
2,4,6-Trichlorophenol					<10.0				
2,4-D [2C]					<1.03				
2,4-Dichlorophenol					<10.0				
2,4-Dimethylphenol					<10.0				
2,4-Dinitrophenol					<20				
2,4-Dinitrotoluene					<10.0				
2,6-Dichlorophenol					<10.0				
2,6-Dinitrotoluene					<10.0				
2-Acetylaminofluorene					<10.0				
2-Butanone	<10	<10	<10	<10	<10	<10	<10	<10	<10
2-Chloronaphthalene					<10.0				
2-Chlorophenol					<10.0				
2-Hexanone	<10	<10	<10	<10	<10	<10	<10	<10	<10
2-Methylnaphthalene					<10.0				
2-Methylphenol					<10.0				
2-Naphthylamine					<10.0				
2-Nitroaniline					<10.0				
2-Nitrophenol					<10.0				
3,3-Dichlorobenzidine					<10.0				
3,3-Dimethylbenzidine					<10.0				
3/4-Methylphenol					<10.0				
3-Chloropropene					<2				
3-Methylcholanthrene					<10.0				
3-Nitroaniline					<10.0				
4,4`-DDD					<.0696				
4,4`-DDE					<.0696				
4,4`-DDT					<.0696				
4,6-Dinitro-2-methylphenol					<10.0				
4-Aminobiphenyl					<10.0				
4-Bromophenyl phenyl ether					<10.0				
4-Chloro-3-methylphenol					<10.0				
4-Chloroaniline					<10.0				
4-Chlorophenyl phenyl ether					<10.0				
4-Methyl-2-Pentanone	<10	<10	<10	<10	<10	<10	<10	<10	<10
4-Nitroaniline					<10.0				
4-Nitrophenol					<10.0				
5-Nitro-o-toluidine					<10.0				
7,12-Dimethylbenz [a] anthracene					<10.0				
Acenaphthene					<10.0				
Acenaphthylene					<10.0				
Acetone	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<7.38 *	<10.00
Acetonitrile					<10000				
Acetophenone					<10.0				
Acrolein					<10				
Acrylonitrile	<5	<5	<5	<5	<5	<5	<5	<5	<5
Aldrin					<.0696				
alpha-BHC					<.0696				
alpha-Chlordane									
Anthracene					<10.0				

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-39

Constituents	10/15/2024
1,1,1,2-Tetrachloroethane	<1
1,1,1-Trichloroethane	<1
1,1,2,2-Tetrachloroethane	<1
1,1,2-Trichloroethane	<1
1,1-Dichloroethane	<1
1,1-Dichloroethene	<1
1,1-Dichloropropene	
1,2,3-Trichloropropane	<1.0
1,2,4,5-Tetrachlorobenzene	
1,2,4-Trichlorobenzene	
1,2-Dibromo-3-Chloropropane	<5.000
1,2-Dibromoethane	<1.000
1,2-Dichlorobenzene	<1
1,2-Dichloroethane	<1
1,2-Dichloropropane	<1
1,3,5-Trinitrobenzene	
1,3-Dichlorobenzene	
1,3-Dichloropropane	
1,3-Dinitrobenzene	
1,4-Dichlorobenzene	<1
1,4-Naphthoquinone	
1,4-Phenylenediamine	
1-Naphthylamine	
2,2-Dichloropropane	
2,3,4,6-Tetrachlorophenol	
2,4,5-T [2C]	
2,4,5-TP [Silvex] [2C]	
2,4,5-Trichlorophenol	
2,4,6-Trichlorophenol	
2,4-D [2C]	
2,4-Dichlorophenol	
2,4-Dimethylphenol	
2,4-Dinitrophenol	
2,4-Dinitrotoluene	
2,6-Dichlorophenol	
2,6-Dinitrotoluene	
2-Acetylaminofluorene	
2-Butanone	<10
2-Chloronaphthalene	
2-Chlorophenol	
2-Hexanone	<5
2-Methylnaphthalene	
2-Methylphenol	
2-Naphthylamine	
2-Nitroaniline	
2-Nitrophenol	
3,3-Dichlorobenzidine	
3,3-Dimethylbenzidine	
3/4-Methylphenol	
3-Chloropropene	
3-Methylcholanthrene	
3-Nitroaniline	
4,4`-DDD	
4,4`-DDE	
4,4`-DDT	
4,6-Dinitro-2-methylphenol	
4-Aminobiphenyl	
4-Bromophenyl phenyl ether	
4-Chloro-3-methylphenol	
4-Chloroaniline	
4-Chlorophenyl phenyl ether	
4-Methyl-2-Pentanone	<5
4-Nitroaniline	
4-Nitrophenol	
5-Nitro-o-toluidine	
7,12-Dimethylbenz [a] anthracene	
Acenaphthene	
Acenaphthylene	
Acetone	<10.00
Acetonitrile	
Acetophenone	
Acrolein	
Acrylonitrile	<5
Aldrin	
alpha-BHC	
alpha-Chlordane	
Anthracene	

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-39

Constituents	Units	8/21/2009	12/15/2009	2/18/2010	3/11/2010	5/27/2010	8/31/2010	11/4/2010	2/16/2011
Antimony	ug/L	<6.000	<6.000	<6.000	<6.000	<6.000	<6.000	<6.000	<6.000
Arsenic	ug/L	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000
Barium	ug/L	39.7	51.7	53.5	57.8 *	44.8	61.0	67.5	73.5
Benzene	ug/L	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5
Benzo [a] anthracene	ug/L								
Benzo [a] pyrene	ug/L								
Benzo [b] fluoranthene	ug/L								
Benzo [g,h,i] perylene	ug/L								
Benzo [k] fluoranthene	ug/L								
Benzyl alcohol	ug/L								
Beryllium	ug/L	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000
beta-BHC	ug/L								
Bis[2-chloroethoxy]methane	ug/L								
Bis[2-chloroethyl]ether	ug/L								
Bis[2-chloroisopropyl]ether	ug/L								
Bis[2-ethylhexyl]phthalate	ug/L								
Bromochloromethane	ug/L	<5	<5	<5	<5	<5	<5	<5	<5
Bromodichloromethane	ug/L	<1	<5	<1	<1	<4	<1	<1	<1
Bromoform	ug/L	<5	<20	<5	<5	<20	<5	<5	<5
Bromomethane	ug/L	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000
Butyl benzyl phthalate	ug/L								
Cadmium	ug/L	1.980	.890	<.500	<.500	<.500	<.500	<.500	5.510
Carbon Disulfide	ug/L	<1	<5	<1	<1	<4	<4	<1	<1
Carbon Tetrachloride	ug/L	<2	<5	<2	<2	<4	<5	<2	<2
Chlordane	ug/L								
Chlorobenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzilate	ug/L								
Chlorodibromomethane	ug/L	<5	<5	<5	<5	<5	<10	<5	<5
Chloroethane	ug/L	<4	<4	<4	<4	<4	<4	<4	<4
Chloroform	ug/L	<1	<1	<1	<1	<1	<1	<1	<1
Chloromethane	ug/L	<3	<3	<3	<3	<3	<3	<3	<3
Chloroprene	ug/L								
Chromium	ug/L	<20.00	<20.00	<20.00	<20.00	<20.00	<20.00	<20.00	<20.00
Chrysene	ug/L								
cis-1,2-Dichloroethene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,3-Dichloropropene	ug/L	<5	<5	<5	<5	<5	<10	<5	<5
Cobalt	ug/L	<20.000	<20.000	<20.000	<1.550	<1.550	<1.550	<1.550	<1.550
Copper	ug/L	<20.00	<20.00	<20.00	<20.00	<20.00	<20.00	<20.00	<20.00
Cyanide	mg/L								
delta-BHC	ug/L								
Diallate [cis or trans]	ug/L								
Dibenz [a,h] anthracene	ug/L								
Dibenzofuran	ug/L								
Dichlorodifluoromethane	ug/L								
Dieldrin	ug/L								
Diethyl phthalate	ug/L								
Dimethoate	ug/L								
Dimethyl phthalate	ug/L								
Dimethylaminoazobenzene	ug/L								
Di-n-butyl phthalate	ug/L								
Di-n-octyl phthalate	ug/L								
Dinoseb	ug/L								
Diphenylamine	ug/L								
Disulfoton	ug/L								
Endosulfan I	ug/L								
Endosulfan II	ug/L								
Endosulfan sulfate	ug/L								
Endrin	ug/L								
Endrin aldehyde	ug/L								
Ethyl Methacrylate	ug/L								
Ethyl Methanesulfonate	ug/L								
Ethylbenzene	ug/L	<1	<2	<1	<1	<1	<1	<1	<1
Famphur	ug/L								
Fluoranthene	ug/L								
Fluorene	ug/L								
gamma-BHC [Lindane]	ug/L								
gamma-Chlordane	ug/L								
Heptachlor	ug/L								
Heptachlor Epoxide	ug/L								
Hexachlorobenzene	ug/L								
Hexachlorobutadiene	ug/L								
Hexachlorocyclopentadiene	ug/L								
Hexachloroethane	ug/L								
Hexachloropropene	ug/L								
Indeno [1,2,3-cd] pyrene	ug/L								
Iodomethane	ug/L	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00
Isobutanol	ug/L								

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-39

Constituents	7/7/2011	10/27/2011	4/26/2012	10/9/2012	2/20/2013	10/3/2013	4/22/2014	10/14/2014	5/12/2015
Antimony	<6.000	<6.000	<6.000	<6.000	<6.000	<1.130	<6.000	<6.000	<.361
Arsenic	<1.000	<1.000	8.000	<1.000	<1.000	<.211	<1.000	<1.000	<2.000
Barium	72.5	73.4	331.0	88.1	94.1	79.1	81.9	81.6	79.8
Benzene	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5
Benzo [a] anthracene	<10.0			<10.0					
Benzo [a] pyrene	<10.0			<10.0					
Benzo [b] fluoranthene	<10.0			<10.0					
Benzo [g,h,i] perylene	<10.0			<10.0					
Benzo [k] fluoranthene	<10.0			<10.0					
Benzyl alcohol	<10.0			<10.0					
Beryllium	<1.000	<1.000	<4.000	<1.000	<1.000	<1.000	<1.000	<1.000	<.073
beta-BHC	<.0320			<.0320					
Bis[2-chloroethoxy]methane	<10.0			<10.0					
Bis[2-chloroethyl]ether	<10.0			<10.0					
Bis[2-chloroisopropyl]ether	<10.0			<10.0					
Bis[2-ethylhexyl]phthalate	<10.00			<10.00					
Bromochloromethane	<5	<5	<5	<5	<5	<5	<5	<5	<5
Bromodichloromethane	<1	<1	<1	<2	<1	<1	<1	<1	<1
Bromoform	<5	<5	<5	<5	<5	<5	<5	<5	<5
Bromomethane	<4.000	<20.000	<50.000	<5.000	<4.000	<4.000	<4.000	<4.000	<4.000
Butyl benzyl phthalate	<10.0			<10.0					
Cadmium	<.500	1.800	1.300	<.500	1.130	<.500	<.096	<.500	<.500
Carbon Disulfide	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon Tetrachloride	<2	<2	<2	<2	<2	<2	<2	<2	<2
Chlordane	<2.00			<2.00					
Chlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzilate	<10.0			<10.0					
Chlorodibromomethane	<5	<5	<5	<5	<5	<5	<5	<5	<5
Chloroethane	<4	<4	<4	<4	<4	<4	<4	<4	<4
Chloroform	<1	<1	<1	<2	<1	<1	<1	<1	<1
Chloromethane	<3	<3	<3	<3	<3	<3	<3	<3	<3
Chloroprene	<1			<1					
Chromium	<20.00	<20.00	<20.00	<20.00	<20.00	<3.63	<3.91	<20.00	<2.33
Chrysene	<10.0			<10.0					
cis-1,2-Dichloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,3-Dichloropropene	<5	<5	<5	<5	<5	<5	<5	<5	<5
Cobalt	<1.550	<1.550	15.600	<1.550	<1.320	<1.320	<2.410	<2.410	<.205
Copper	<20.00	<20.00	<20.00	<20.00	<20.00	<20.00	<20.00	<20.00	<.97
Cyanide	<.01			<.01					
delta-BHC	<.0320			<.0320					
Diallate [cis or trans]	<10.0			<10.0					
Dibenz [a,h] anthracene	<10.0			<10.0					
Dibenzofuran	<10.0			<10.0					
Dichlorodifluoromethane	<3			<3					
Dieldrin	<.0320			<.0320					
Diethyl phthalate	<10.0			<10.0					
Dimethoate	<10.0			<10.0					
Dimethyl phthalate	<10.0			<10.0					
Dimethylaminoazobenzene	<10.0			<10.0					
Di-n-butyl phthalate	<10.0			<10.0					
Di-n-octyl phthalate	<10			<10					
Dinoseb	<10.0			<10.0					
Diphenylamine	<10.0			<10.0					
Disulfoton	<10.0			<10.0					
Endosulfan I	<.0320			<.0320					
Endosulfan II	<.0320			<.0320					
Endosulfan sulfate	<.0320			<.0320					
Endrin	<.0320			<.0320					
Endrin aldehyde	<.0320			<.0320					
Ethyl Methacrylate	<2			<2					
Ethyl Methanesulfonate	<10.0			<10.0					
Ethylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Famphur	<20			<20					
Fluoranthene	<10.0			<10.0					
Fluorene	<10.0			<10.0					
gamma-BHC [Lindane]	<.0320			<.0320					
gamma-Chlordane				<.032					
Heptachlor	<.0320			<.0320					
Heptachlor Epoxide	<.0320			<.0320					
Hexachlorobenzene	<10.0			<10.0					
Hexachlorobutadiene	<10.0			<10.0					
Hexachlorocyclopentadiene	<10			<10					
Hexachloroethane	<10.0			<10.0					
Hexachloropropene	<10.0			<10.0					
Indeno [1,2,3-cd] pyrene	<10.0			<10.0					
Iodomethane	<20.00	<20.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00
Isobutanol	<10000			<10000					

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-39

Constituents	7/29/2015	2/15/2016	10/31/2016	3/27/2017	11/13/2017	6/6/2018	11/27/2018	3/18/2019	12/2/2019
Antimony	<1.000	<.367 *	<1.000	<1.000	<.602 *	<3.000	<1.000	<1.000	<1.000
Arsenic	<2.000	<2.000	<2.000	<2.000	<2.000	1.470	<2.000	<2.000	<2.000
Barium	79.2	86.3 *	86.1	93.4	78.7 *	90.7	92.5 *	107.0	85.9
Benzene	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5
Benzo [a] anthracene				<11.5					
Benzo [a] pyrene				<11.5					
Benzo [b] fluoranthene				<11.5					
Benzo [g,h,i] perylene				<11.5					
Benzo [k] fluoranthene				<11.5					
Benzyl alcohol				<11.5					
Beryllium	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000
beta-BHC				<.0320					
Bis[2-chloroethoxy]methane				<11.5					
Bis[2-chloroethyl]ether				<11.5					
Bis[2-chloroisopropyl]ether				<11.5					
Bis[2-ethylhexyl]phthalate				<2.15					
Bromochloromethane	<5	<5	<5	<5	<5	<5	<5	<5	<5
Bromodichloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromoform	<5	<5	<5	<5	<5	<5	<5	<5	<5
Bromomethane	<4.000	<4.000	<4.000	<.239	<.318 *	<4.000	<4.000	<4.000	<4.000
Butyl benzyl phthalate				<11.5					
Cadmium	<.500	<.500	<.500	<.070	<.090 *	<.173	<.500	<.500	<.100
Carbon Disulfide	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon Tetrachloride	<2	<2	<2	<2	<2	<2	<2	<2	<2
Chlordane				<2.00					
Chlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzilate				<11.5					
Chlorodibromomethane	<5	<5	<5	<5	<5	<5	<5	<5	<5
Chloroethane	<4	<4	<4	<4	<4	<4	<4	<4	<4
Chloroform	<1	<1	<1	<1	<1	<3	<3	<3	<3
Chloromethane	<3	<3	<3	<3	<3	<3	<3	<3	<3
Chloroprene				<1					
Chromium	<1.72	<2.63 *	<1.77	<3.14	<2.40	5.28	<2.65 *	<3.16	<2.39
Chrysene				<11.5					
cis-1,2-Dichloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,3-Dichloropropene	<5	<5	<5	<5	<5	<5	<5	<5	<5
Cobalt	<.500	<.500	<.500	<.500	<.500	<1.000	<.500	<.500	<.500
Copper	<2.00	<2.00	<5.00	<5.00	<5.00	<1.08	<5.00	<5.00	<5.00
Cyanide				<.01					
delta-BHC				<.0320					
Diallate [cis or trans]				<11.5					
Dibenz [a,h] anthracene				<11.5					
Dibenzofuran				<11.5					
Dichlorodifluoromethane				<3					
Dieldrin				<.0320					
Diethyl phthalate				<11.5					
Dimethoate				<11.5					
Dimethyl phthalate				<11.5					
Dimethylaminoazobenzene				<11.5					
Di-n-butyl phthalate				<11.5					
Di-n-octyl phthalate				<23					
Dinoseb				<11.5					
Diphenylamine				<11.5					
Disulfoton				<11.5					
Endosulfan I				<.0320					
Endosulfan II				<.0320					
Endosulfan sulfate				<.0320					
Endrin				<.0320					
Endrin aldehyde				<.0320					
Ethyl Methacrylate				<2					
Ethyl Methanesulfonate				<11.5					
Ethylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Famphur				<23					
Fluoranthene				<11.5					
Fluorene				<11.5					
gamma-BHC [Lindane]				<.0320					
gamma-Chlordane									
Heptachlor				<.0320					
Heptachlor Epoxide				<.0320					
Hexachlorobenzene				<11.5					
Hexachlorobutadiene				<11.5					
Hexachlorocyclopentadiene				<23					
Hexachloroethane				<11.5					
Hexachloropropene				<11.5					
Indeno [1,2,3-cd] pyrene				<11.5					
Iodomethane	<10.00	<7.94 *	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00
Isobutanol				<10000					

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-39

Constituents	3/30/2020	11/17/2020	5/6/2021	10/7/2021	4/6/2022	8/23/2022	3/8/2023	9/13/2023	5/29/2024
Antimony	<1.000	<.822 *	<2.000	<2.000	<2.000	<2.000	<2.000	<2.000	<2.000
Arsenic	<2.000	<2.000	<2.000	<2.000	<2.000	<2.000	<2.000	<1.505 *	<2.000
Barium	98.9	82.5 *	107.0	84.5	97.5 *	87.7	94.9	89.3 *	83.3
Benzene	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5
Benzo [a] anthracene					<10.0				
Benzo [a] pyrene					<10.0				
Benzo [b] fluoranthene					<10.0				
Benzo [g,h,i] perylene					<10.0				
Benzo [k] fluoranthene					<10.0				
Benzyl alcohol					<10.0				
Beryllium	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<.682 *	<1.000
beta-BHC					<.0696				
Bis[2-chloroethoxy]methane					<10.0				
Bis[2-chloroethyl]ether					<10.0				
Bis[2-chloroisopropyl]ether					<10.0				
Bis[2-ethylhexyl]phthalate					<10.00				
Bromochloromethane	<5	<5	<5	<5	<5	<5	<5	<5	<5
Bromodichloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromoform	<5	<5	<5	<5	<5	<5	<5	<5	<5
Bromomethane	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000
Butyl benzyl phthalate					<10.0				
Cadmium	<.100	<.100	<.100	<.100	<.100	<.055	.129	.260 *	<.200
Carbon Disulfide	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon Tetrachloride	<2	<2	<2	<2	<2	<2	<2	<2	<2
Chlordane					<2.17				
Chlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzilate					<10.0				
Chlorodibromomethane	<5	<5	<5	<5	<5	<5	<5	<5	<5
Chloroethane	<4	<4	<4	<4	<4	<4	<4	<4	<4
Chloroform	<3	<3	<3	<3	<3	<3	<3	<3	<3
Chloromethane	<3	<3	<3	<3	<3	<3	<3	<3	<3
Chloroprene					<1				
Chromium	<2.53	<2.53 *	<2.66	<1.59	<2.63 *	<1.34	<2.15	<2.14 *	<1.44
Chrysene					<10.0				
cis-1,2-Dichloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,3-Dichloropropene	<5	<5	<5	<5	<5	<5	<5	<5	<5
Cobalt	<.500	<.500	<.500	<.500	<.500	<.500	<.500	<.404 *	<.500
Copper	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Cyanide					<.01				
delta-BHC					<.0696				
Diallate [cis or trans]					<10.0				
Dibenz [a,h] anthracene					<10.0				
Dibenzofuran					<10.0				
Dichlorodifluoromethane					<3				
Dieldrin					<.0696				
Diethyl phthalate					<10.0				
Dimethoate					<10.0				
Dimethyl phthalate					<10.0				
Dimethylaminoazobenzene					<10.0				
Di-n-butyl phthalate					<10.0				
Di-n-octyl phthalate					<20				
Dinoseb					<10.0				
Diphenylamine					<10.0				
Disulfoton					<10.0				
Endosulfan I					<.0696				
Endosulfan II					<.0696				
Endosulfan sulfate					<.0696				
Endrin					<.0696				
Endrin aldehyde					<.0696				
Ethyl Methacrylate					<2				
Ethyl Methanesulfonate					<10.0				
Ethylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Famphur					<10				
Fluoranthene					<10.0				
Fluorene					<10.0				
gamma-BHC [Lindane]					<.0696				
gamma-Chlordane									
Heptachlor					<.0696				
Heptachlor Epoxide					<.0696				
Hexachlorobenzene					<10.0				
Hexachlorobutadiene					<10.0				
Hexachlorocyclopentadiene					<10				
Hexachloroethane					<10.0				
Hexachloropropene					<10.0				
Indeno [1,2,3-cd] pyrene					<10.0				
Iodomethane	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00	<10.00
Isobutanol					<10000				

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-39

Constituents	10/15/2024
Antimony	<2.000
Arsenic	<4.000
Barium	93.1
Benzene	<1.0
Benzo [a] anthracene	
Benzo [a] pyrene	
Benzo [b] fluoranthene	
Benzo [g,h,i] perylene	
Benzo [k] fluoranthene	
Benzyl alcohol	
Beryllium	<4.000
beta-BHC	
Bis[2-chloroethoxy]methane	
Bis[2-chloroethyl]ether	
Bis[2-chloroisopropyl]ether	
Bis[2-ethylhexyl]phthalate	
Bromochloromethane	<1
Bromodichloromethane	<1
Bromoform	<1
Bromomethane	<1.000
Butyl benzyl phthalate	
Cadmium	<.800
Carbon Disulfide	<1
Carbon Tetrachloride	<1
Chlordane	
Chlorobenzene	<1
Chlorobenzilate	
Chlorodibromomethane	<1
Chloroethane	<1
Chloroform	<1
Chloromethane	<1
Chloroprene	
Chromium	<8.00
Chrysene	
cis-1,2-Dichloroethene	<1
cis-1,3-Dichloropropene	<1
Cobalt	<.400
Copper	<4.00
Cyanide	
delta-BHC	
Diallate [cis or trans]	
Dibenz [a,h] anthracene	
Dibenzofuran	
Dichlorodifluoromethane	
Dieldrin	
Diethyl phthalate	
Dimethoate	
Dimethyl phthalate	
Dimethylaminoazobenzene	
Di-n-butyl phthalate	
Di-n-octyl phthalate	
Dinoseb	
Diphenylamine	
Disulfoton	
Endosulfan I	
Endosulfan II	
Endosulfan sulfate	
Endrin	
Endrin aldehyde	
Ethyl Methacrylate	
Ethyl Methanesulfonate	
Ethylbenzene	<1
Famphur	
Fluoranthene	
Fluorene	
gamma-BHC [Lindane]	
gamma-Chlordane	
Heptachlor	
Heptachlor Epoxide	
Hexachlorobenzene	
Hexachlorobutadiene	
Hexachlorocyclopentadiene	
Hexachloroethane	
Hexachloropropene	
Indeno [1,2,3-cd] pyrene	
Iodomethane	<1.00
Isobutanol	

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-39

Constituents	Units	8/21/2009	12/15/2009	2/18/2010	3/11/2010	5/27/2010	8/31/2010	11/4/2010	2/16/2011
Isodrin	ug/L								
Isophorone	ug/L								
Isosafrole	ug/L								
Kepone	ug/L								
Lead	ug/L	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000	<4.000
MP-Xylene	ug/L								
Mercury	ug/L								
Methacrylonitrile	ug/L								
Methapyrilene	ug/L								
Methoxychlor	ug/L								
Methyl Methacrylate	ug/L								
Methyl Methanesulfonate	ug/L								
Methylene Bromide	ug/L	<1	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	ug/L	<5.000	<5.000	<5.000	<5.000	<5.000	<5.000	<5.000	<5.000
Naphthalene	ug/L								
Nickel	ug/L	<50.000	<50.000	<50.000	<50.000	<50.000	<50.000	<50.000	<50.000
Nitrobenzene	ug/L								
N-Nitrosodiethylamine	ug/L								
N-Nitrosodimethylamine	ug/L								
N-Nitrosodi-n-butylamine	ug/L								
N-Nitrosodi-n-propylamine	ug/L								
N-Nitrosodiphenylamine	ug/L								
N-Nitrosomethylethylamine	ug/L								
N-Nitrosopiperidine	ug/L								
N-Nitrosopyrrolidine	ug/L								
O,O,O-Triethyl Phosphorothioate	ug/L								
o-Toluidine	ug/L								
o-Xylene	ug/L								
Parathion-Ethyl	ug/L								
Parathion-Methyl	ug/L								
PCB-1016	ug/L								
PCB-1221	ug/L								
PCB-1232	ug/L								
PCB-1242	ug/L								
PCB-1248	ug/L								
PCB-1254	ug/L								
PCB-1260	ug/L								
Pentachlorobenzene	ug/L								
Pentachloronitrobenzene	ug/L								
Pentachlorophenol [2C]	ug/L								
Phenacetin	ug/L								
Phenanthrene	ug/L								
Phenol	ug/L								
Phorate	ug/L								
Pronamide	ug/L								
Propionitrile	ug/L								
Pyrene	ug/L								
Safrole	ug/L								
Selenium	ug/L	83.7	164.0	78.4	81.0 *	73.7	82.4	72.1	74.3
Silver	ug/L	<20.000	<20.000	<20.000	<20.000	<20.000	<20.000	<20.000	<20.000
Styrene	ug/L	<1	<5	<2	<1	<4	<4	<1	<1
Sulfide	mg/L								
Tetrachloroethene	ug/L	<1	<1	<2	<1	<1	<1	<1	<1
Thallium	ug/L	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00
Thionazin	ug/L								
Tin	ug/L								
Toluene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1
Total Suspended Solids	mg/L								
Toxaphene	ug/L								
trans-1,2-Dichloroethene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,3-Dichloropropene	ug/L	<5	<5	<5	<5	<5	<10	<5	<5
trans-1,4-Dichloro-2-Butene	ug/L	<10	<10	<10	<10	<10	<10	<10	<10
Trichloroethene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	ug/L	<4	<4	<4	<4	<4	<4	<4	<4
Vanadium	ug/L	<50.000	<50.000	<50.000	<50.000	<50.000	<50.000	<50.000	<50.000
Vinyl Acetate	ug/L	<2	<2	<2	<2	<2	<2	<2	<4
Vinyl Chloride	ug/L	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	ug/L	<3.000	<9.000	<3.000	<3.000	<12.000	<3.000	<3.000	<3.000
Zinc	ug/L	37.8	33.4	33.9	34.0 *	<20.0	24.8	<20.0	<20.0

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-39

Constituents	7/7/2011	10/27/2011	4/26/2012	10/9/2012	2/20/2013	10/3/2013	4/22/2014	10/14/2014	5/12/2015
Isodrin	<10.0			<10.0					
Isophorone	<10.0			<10.0					
Isosafrole	<10.0			<10.0					
Kepone	<10.0			<10.0					
Lead	<4.000	<4.000	11.500	<4.000	<4.000	<4.000	<4.000	<4.000	.777
MP-Xylene				<2	<2				
Mercury	<.200			<.267					
Methacrylonitrile	<1			<2					
Methapyrilene	<10.0			<10.0					
Methoxychlor	<.0320			<.0320					
Methyl Methacrylate	<2			<2					
Methyl Methanesulfonate	<10.0			<10.0					
Methylene Bromide	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	<5.000	<5.000	<5.000	<5.000	<5.000	<5.000	<5.000	<5.000	<5.000
Naphthalene	<5			<5					
Nickel	<50.000	<50.000	<50.000	<50.000	<50.000	<50.000	<50.000	<8.180	<5.000
Nitrobenzene	<10.0			<10.0					
N-Nitrosodiethylamine	<10.0			<10.0					
N-Nitrosodimethylamine	<10.0			<10.0					
N-Nitrosodi-n-butylamine	<10.0			<10.0					
N-Nitrosodi-n-propylamine	<10.0			<10.0					
N-Nitrosodiphenylamine	<10.0			<10.0					
N-Nitrosomethylethylamine	<10.0			<10.0					
N-Nitrosopiperidine	<10.0			<10.0					
N-Nitrosopyrrolidine	<10.0			<10.0					
O,O,O-Triethyl Phosphorothioate	<10.0			<10.0					
o-Toluidine	<10.0			<10.0					
o-Xylene				<1	<1				
Parathion-Ethyl	<10.0			<10.0					
Parathion-Methyl	<10.0			<10.0					
PCB-1016	<.80			<.80					
PCB-1221	<.80			<.80					
PCB-1232	<.80			<.80					
PCB-1242	<.80			<.80					
PCB-1248	<.80			<.80					
PCB-1254	<.80			<.80					
PCB-1260	<.80			<.80					
Pentachlorobenzene	<10.0			<10.0					
Pentachloronitrobenzene	<10.0			<10.0					
Pentachlorophenol [2C]	<10.0			<10.0					
Phenacetin	<10.0			<10.0					
Phenanthrene	<10.0			<10.0					
Phenol	<10.0			<10.0					
Phorate	<10.0			<10.0					
Pronamide	<10.0			<10.0					
Propionitrile	<10			<10					
Pyrene	<10.0			<10.0					
Safrole	<10.0			<10.0					
Selenium	81.3	97.3	5.9	85.8	42.4	57.6	71.3	66.8	73.2
Silver	<20.000	<20.000	<20.000	<20.000	<20.000	<20.000	<20.000	<20.000	<1.000
Styrene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Sulfide	<.12			<.23					
Tetrachloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Thallium	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<1.00
Thionazin	<10.0			<10.0					
Tin	<100			<100					
Toluene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total Suspended Solids							32.300	23.600	11.500
Toxaphene	<2.00			<2.00					
trans-1,2-Dichloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,3-Dichloropropene	<10	<5	<5	<5	<5	<5	<5	<5	<5
trans-1,4-Dichloro-2-Butene	<10	<10	<10	<10	<10	<10	<10	<10	<10
Trichloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	<4	<4	<4	<4	<4	<4	<4	<4	<4
Vanadium	<50.000	<50.000	<50.000	<50.000	<50.000	<50.000	<50.000	<50.000	<.911
Vinyl Acetate	<2	<2	<5	<2	<2	<2	<2	<10	<10
Vinyl Chloride	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	<3.000	<3.000	<3.000	<3.000	<3.000	<3.000	<3.000	<3.000	<3.000
Zinc	<20.0	<20.0	31.7	<20.0	37.4	90.4	<20.0	<20.0	<10.0

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-39

Constituents	7/29/2015	2/15/2016	10/31/2016	3/27/2017	11/13/2017	6/6/2018	11/27/2018	3/18/2019	12/2/2019
Isodrin				<11.5					
Isophorone				<11.5					
Isosafrole				<11.5					
Kepone				<11.5					
Lead	<.124	<.500	<.500	<.500	<.500	<.299	<.500	<.500	<.500
MP-Xylene									
Mercury				<.200					
Methacrylonitrile				<10					
Methapyrilene				<11.5					
Methoxychlor				<.0320					
Methyl Methacrylate				<2					
Methyl Methanesulfonate				<11.5					
Methylene Bromide	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	<5.000	<2.620 *	<.325	<5.000	<5.000	<5.000	<5.000	<5.000	<5.000
Naphthalene				<5					
Nickel	<5.000	<5.000	<5.000	<5.000	<5.000	<.868	<5.000	<5.000	<5.000
Nitrobenzene				<11.5					
N-Nitrosodiethylamine				<11.5					
N-Nitrosodimethylamine				<11.5					
N-Nitrosodi-n-butylamine				<11.5					
N-Nitrosodi-n-propylamine				<11.5					
N-Nitrosodiphenylamine				<11.5					
N-Nitrosomethylethylamine				<11.5					
N-Nitrosopiperidine				<11.5					
N-Nitrosopyrrolidine				<11.5					
O,O,O-Triethyl Phosphorothioate				<11.5					
o-Toluidine				<11.5					
o-Xylene									
Parathion-Ethyl				<11.5					
Parathion-Methyl				<11.5					
PCB-1016				<.87					
PCB-1221				<.87					
PCB-1232				<.87					
PCB-1242				<.87					
PCB-1248				<.87					
PCB-1254				<.87					
PCB-1260				<.87					
Pentachlorobenzene				<11.5					
Pentachloronitrobenzene				<11.5					
Pentachlorophenol [2C]				<11.5					
Phenacetin				<11.5					
Phenanthrene				<11.5					
Phenol				<11.5					
Phorate				<11.5					
Pronamide				<11.5					
Propionitrile				<10					
Pyrene				<11.5					
Safrole				<11.5					
Selenium	73.4	74.9	70.4	77.2	71.9 *	74.5	76.0 *	76.4	74.8
Silver	<1.000	<.532 *	<1.000	<1.000	<1.000	<.500	<1.000	<1.000	<1.000
Styrene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Sulfide				<1.00					
Tetrachloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Thallium	<1.00	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00
Thionazin				<11.5					
Tin				<5					
Toluene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total Suspended Solids	<1.500	1.565 *	<.875	<1.000	4.125 *	<1.000	<1.880	<.750	<.875
Toxaphene				<2.00					
trans-1,2-Dichloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,3-Dichloropropene	<5	<5	<5	<5	<5	<5	<5	<5	<5
trans-1,4-Dichloro-2-Butene	<10	<10	<10	<10	<10	<10	<10	<10	<10
Trichloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	<4	<4	<4	<4	<4	<4	<4	<4	<4
Vanadium	<.819	<.793 *	<.802	<.986	<5.000	<3.890	<.881 *	<1.040	<5.000
Vinyl Acetate	<10	<10	<10	<10	<10	<10	<10	<10	<10
Vinyl Chloride	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	<3.000	<3.000	<3.000	<3.000	<3.000	<3.000	<3.000	<3.000	<3.000
Zinc	<10.0	<10.0	<10.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-39

Constituents	3/30/2020	11/17/2020	5/6/2021	10/7/2021	4/6/2022	8/23/2022	3/8/2023	9/13/2023	5/29/2024
Isodrin					<10.0				
Isophorone					<10.0				
Isosafrole					<10.0				
Kepone					<10.0				
Lead	<.500	<.500	<.500	<.500	<.500	<.500	<.500	.611 *	<.500
MP-Xylene									
Mercury					<.200				
Methacrylonitrile					<10				
Methapyrilene					<10.0				
Methoxychlor					<.0696				
Methyl Methacrylate					<2				
Methyl Methanesulfonate					<10.0				
Methylene Bromide	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	<10.000	<5.000	<5.000	<5.000	<5.000	<5.000	<5.000	<5.000	<5.000
Naphthalene					<5				
Nickel	<5.000	<5.000	<5.000	<5.000	<5.000	<5.000	<5.000	<5.000	<5.000
Nitrobenzene					<10.0				
N-Nitrosodiethylamine					<10.0				
N-Nitrosodimethylamine					<10.0				
N-Nitrosodi-n-butylamine					<10.0				
N-Nitrosodi-n-propylamine					<10.0				
N-Nitrosodiphenylamine					<10.0				
N-Nitrosomethylethylamine					<10.0				
N-Nitrosopiperidine					<10.0				
N-Nitrosopyrrolidine					<10.0				
O,O,O-Triethyl Phosphorothioate					<10.0				
o-Toluidine					<10.0				
o-Xylene									
Parathion-Ethyl					<10.0				
Parathion-Methyl					<10.0				
PCB-1016					<.87				
PCB-1221					<.87				
PCB-1232					<.87				
PCB-1242					<.87				
PCB-1248					<.87				
PCB-1254					<.87				
PCB-1260					<.87				
Pentachlorobenzene					<10.0				
Pentachloronitrobenzene					<10.0				
Pentachlorophenol [2C]					<10.0				
Phenacetin					<10.0				
Phenanthrene					<10.0				
Phenol					<10.0				
Phorate					<10.0				
Pronamide					<10.0				
Propionitrile					<10				
Pyrene					<10.0				
Safrole					<10.0				
Selenium	73.1	71.3 *	80.1	74.6	79.1 *	79.9	79.4	75.1 *	71.4
Silver	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000
Styrene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Sulfide					<1.00				
Tetrachloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Thallium	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	3.32 *	<1.00
Thionazin					<10.0				
Tin					<5				
Toluene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total Suspended Solids	<1.880	<1.880	<1.000	<1.880	<1.440 *	<1.880	<.875	<1.565 *	<1.880
Toxaphene					<2.17				
trans-1,2-Dichloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,3-Dichloropropene	<5	<5	<5	<5	<5	<5	<5	<5	<5
trans-1,4-Dichloro-2-Butene	<10	<10	<10	<10	<10	<10	<10	<10	<10
Trichloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	<4	<4	<4	<4	<4	<4	<4	<4	<4
Vanadium	<5.000	<1.151 *	<5.000	<5.000	<5.000	<5.000	<5.000	3.810 *	<5.000
Vinyl Acetate	<10	<10	<10	<10	<10	<10	<10	<10	<10
Vinyl Chloride	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	<3.000	<3.000	<.969	<3.000	<3.000	<3.000	<3.000	<3.000	<3.000
Zinc	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-39

Constituents	10/15/2024
Isodrin	
Isophorone	
Isosafrole	
Kepone	
Lead	<4.000
MP-Xylene	
Mercury	
Methacrylonitrile	
Methapyrilene	
Methoxychlor	
Methyl Methacrylate	
Methyl Methanesulfonate	
Methylene Bromide	<1
Methylene Chloride	<5.000
Naphthalene	
Nickel	<4.000
Nitrobenzene	
N-Nitrosodiethylamine	
N-Nitrosodimethylamine	
N-Nitrosodi-n-butylamine	
N-Nitrosodi-n-propylamine	
N-Nitrosodiphenylamine	
N-Nitrosomethylethylamine	
N-Nitrosopiperidine	
N-Nitrosopyrrolidine	
O,O,O-Triethyl Phosphorothioate	
o-Toluidine	
o-Xylene	
Parathion-Ethyl	
Parathion-Methyl	
PCB-1016	
PCB-1221	
PCB-1232	
PCB-1242	
PCB-1248	
PCB-1254	
PCB-1260	
Pentachlorobenzene	
Pentachloronitrobenzene	
Pentachlorophenol [2C]	
Phenacetin	
Phenanthrene	
Phenol	
Phorate	
Pronamide	
Propionitrile	
Pyrene	
Safrole	
Selenium	63.6
Silver	<4.000
Styrene	<1
Sulfide	
Tetrachloroethene	<1
Thallium	<2.00
Thionazin	
Tin	
Toluene	<1
Total Suspended Solids	
Toxaphene	
trans-1,2-Dichloroethene	<1
trans-1,3-Dichloropropene	<1
trans-1,4-Dichloro-2-Butene	<5
Trichloroethene	<1
Trichlorofluoromethane	<1
Vanadium	<20.000
Vinyl Acetate	<5
Vinyl Chloride	<1
Xylenes, total	<2.000
Zinc	<20.0

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-43

Constituents	Units	5/15/2013	4/22/2014	10/14/2014	5/12/2015	7/29/2015	2/15/2016	10/31/2016	3/27/2017
1,1,1,2-Tetrachloroethane	ug/L								
1,1,1-Trichloroethane	ug/L								
1,1,2,2-Tetrachloroethane	ug/L								
1,1,2-Trichloroethane	ug/L								
1,1-Dichloroethane	ug/L								
1,1-Dichloroethene	ug/L								
1,1-Dichloropropene	ug/L								
1,2,3-Trichloropropane	ug/L								
1,2,4,5-Tetrachlorobenzene	ug/L								
1,2,4-Trichlorobenzene	ug/L								
1,2-Dibromo-3-Chloropropane	ug/L								
1,2-Dibromoethane	ug/L								
1,2-Dichlorobenzene	ug/L								
1,2-Dichloroethane	ug/L								
1,2-Dichloropropane	ug/L								
1,3,5-Trinitrobenzene	ug/L								
1,3-Dichlorobenzene	ug/L								
1,3-Dichloropropane	ug/L								
1,3-Dinitrobenzene	ug/L								
1,4-Dichlorobenzene	ug/L								
1,4-Naphthoquinone	ug/L								
1,4-Phenylenediamine	ug/L								
1-Naphthylamine	ug/L								
2,2-Dichloropropane	ug/L								
2,3,4,6-Tetrachlorophenol	ug/L								
2,4,5-T [2C]	ug/L								
2,4,5-TP [Silvex] [2C]	ug/L								
2,4,5-Trichlorophenol	ug/L								
2,4,6-Trichlorophenol	ug/L								
2,4-D [2C]	ug/L								
2,4-Dichlorophenol	ug/L								
2,4-Dimethylphenol	ug/L								
2,4-Dinitrophenol	ug/L								
2,4-Dinitrotoluene	ug/L								
2,6-Dichlorophenol	ug/L								
2,6-Dinitrotoluene	ug/L								
2-Acetylaminofluorene	ug/L								
2-Butanone	ug/L								
2-Chloronaphthalene	ug/L								
2-Chlorophenol	ug/L								
2-Hexanone	ug/L								
2-Methylnaphthalene	ug/L								
2-Methylphenol	ug/L								
2-Naphthylamine	ug/L								
2-Nitroaniline	ug/L								
2-Nitrophenol	ug/L								
3,3-Dichlorobenzidine	ug/L								
3,3-Dimethylbenzidine	ug/L								
3/4-Methylphenol	ug/L								
3-Chloropropene	ug/L								
3-Methylcholanthrene	ug/L								
3-Nitroaniline	ug/L								
4,4`-DDD	ug/L								
4,4`-DDE	ug/L								
4,4`-DDT	ug/L								
4,6-Dinitro-2-methylphenol	ug/L								
4-Aminobiphenyl	ug/L								
4-Bromophenyl phenyl ether	ug/L								
4-Chloro-3-methylphenol	ug/L								
4-Chloroaniline	ug/L								
4-Chlorophenyl phenyl ether	ug/L								
4-Methyl-2-Pentanone	ug/L								
4-Nitroaniline	ug/L								
4-Nitrophenol	ug/L								
5-Nitro-o-toluidine	ug/L								
7,12-Dimethylbenz [a] anthracene	ug/L								
Acenaphthene	ug/L								
Acenaphthylene	ug/L								
Acetone	ug/L								
Acetonitrile	ug/L								
Acetophenone	ug/L								
Acrolein	ug/L								
Acrylonitrile	ug/L								
Aldrin	ug/L								
alpha-BHC	ug/L								
Anthracene	ug/L								
Antimony	ug/L								

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-43

Constituents	11/13/2017	6/6/2018	11/26/2018	3/18/2019	12/2/2019	3/30/2020	11/17/2020	5/6/2021	10/7/2021
1,1,1,2-Tetrachloroethane									
1,1,1-Trichloroethane									
1,1,2,2-Tetrachloroethane									
1,1,2-Trichloroethane									
1,1-Dichloroethane									
1,1-Dichloroethene									
1,1-Dichloropropene									
1,2,3-Trichloropropane									
1,2,4,5-Tetrachlorobenzene									
1,2,4-Trichlorobenzene									
1,2-Dibromo-3-Chloropropane									
1,2-Dibromoethane									
1,2-Dichlorobenzene									
1,2-Dichloroethane									
1,2-Dichloropropane									
1,3,5-Trinitrobenzene									
1,3-Dichlorobenzene									
1,3-Dichloropropane									
1,3-Dinitrobenzene									
1,4-Dichlorobenzene									
1,4-Naphthoquinone									
1,4-Phenylenediamine									
1-Naphthylamine									
2,2-Dichloropropane									
2,3,4,6-Tetrachlorophenol									
2,4,5-T [2C]									
2,4,5-TP [Silvex] [2C]									
2,4,5-Trichlorophenol									
2,4,6-Trichlorophenol									
2,4-D [2C]									
2,4-Dichlorophenol									
2,4-Dimethylphenol									
2,4-Dinitrophenol									
2,4-Dinitrotoluene									
2,6-Dichlorophenol									
2,6-Dinitrotoluene									
2-Acetylaminofluorene									
2-Butanone									
2-Chloronaphthalene									
2-Chlorophenol									
2-Hexanone									
2-Methylnaphthalene									
2-Methylphenol									
2-Naphthylamine									
2-Nitroaniline									
2-Nitrophenol									
3,3-Dichlorobenzidine									
3,3-Dimethylbenzidine									
3/4-Methylphenol									
3-Chloropropene									
3-Methylcholanthrene									
3-Nitroaniline									
4,4`-DDD									
4,4`-DDE									
4,4`-DDT									
4,6-Dinitro-2-methylphenol									
4-Aminobiphenyl									
4-Bromophenyl phenyl ether									
4-Chloro-3-methylphenol									
4-Chloroaniline									
4-Chlorophenyl phenyl ether									
4-Methyl-2-Pentanone									
4-Nitroaniline									
4-Nitrophenol									
5-Nitro-o-toluidine									
7,12-Dimethylbenz [a] anthracene									
Acenaphthene									
Acenaphthylene									
Acetone									
Acetonitrile									
Acetophenone									
Acrolein									
Acrylonitrile									
Aldrin									
alpha-BHC									
Anthracene									
Antimony									

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-43

Constituents	4/6/2022	7/8/2022	8/23/2022	3/8/2023	7/21/2023	9/13/2023	5/29/2024	10/15/2024
1,1,1,2-Tetrachloroethane	<1		<1	<1		<1	<1	<1
1,1,1-Trichloroethane	<1		<1	<1		<1	<1	<1
1,1,2,2-Tetrachloroethane	<1		<1	<1		<1	<1	<1
1,1,2-Trichloroethane	<1		<1	<1		<1	<1	<1
1,1-Dichloroethane	<1		<1	<1		<1	<1	<1
1,1-Dichloroethene	<2		<2	<2		<2	<2	<1
1,1-Dichloropropene			<1					
1,2,3-Trichloropropane	<1		<1	<1		<1	<1	<1
1,2,4,5-Tetrachlorobenzene			<10					
1,2,4-Trichlorobenzene			<5					
1,2-Dibromo-3-Chloropropane	<5		<5	<5		<5	<5	<5
1,2-Dibromoethane	<1		<1	<1		<1	<1	<1
1,2-Dichlorobenzene	<1		<1	<1		<1	<1	<1
1,2-Dichloroethane	<1		<1	<1		<1	<1	<1
1,2-Dichloropropane	<1		<1	<1		<1	<1	<1
1,3,5-Trinitrobenzene			<10					
1,3-Dichlorobenzene			<1					
1,3-Dichloropropane			<1					
1,3-Dinitrobenzene			<10					
1,4-Dichlorobenzene	<1		<1	<1		<1	<1	<1
1,4-Naphthoquinone			<10					
1,4-Phenylenediamine			<10					
1-Naphthylamine			<10					
2,2-Dichloropropane			<4					
2,3,4,6-Tetrachlorophenol			<10					
2,4,5-T [2C]			<.5					
2,4,5-TP [Silvex] [2C]			<.5					
2,4,5-Trichlorophenol			<10					
2,4,6-Trichlorophenol			<10					
2,4-D [2C]			<2					
2,4-Dichlorophenol			<10					
2,4-Dimethylphenol			<10					
2,4-Dinitrophenol			<20					
2,4-Dinitrotoluene			<10					
2,6-Dichlorophenol			<10					
2,6-Dinitrotoluene			<10					
2-Acetylaminofluorene			<10					
2-Butanone	<10		<10	<10		<10	<10	<10
2-Chloronaphthalene			<10					
2-Chlorophenol			<10					
2-Hexanone	<10		<10	<10		<10	<10	<5
2-Methylnaphthalene			<10					
2-Methylphenol			<10					
2-Naphthylamine			<10					
2-Nitroaniline			<10					
2-Nitrophenol			<10					
3,3-Dichlorobenzidine			<10					
3,3-Dimethylbenzidine			<10					
3/4-Methylphenol			<10					
3-Chloropropene			<2					
3-Methylcholanthrene			<10					
3-Nitroaniline			<10					
4,4`-DDD			<.064					
4,4`-DDE			<.064					
4,4`-DDT			<.064					
4,6-Dinitro-2-methylphenol			<10					
4-Aminobiphenyl			<10					
4-Bromophenyl phenyl ether			<10					
4-Chloro-3-methylphenol			<10					
4-Chloroaniline			<10					
4-Chlorophenyl phenyl ether			<10					
4-Methyl-2-Pentanone	<10		<10	<10		<10	<10	<5
4-Nitroaniline			<10					
4-Nitrophenol			<10					
5-Nitro-o-toluidine			<10					
7,12-Dimethylbenz [a] anthracene			<10					
Acenaphthene			<10					
Acenaphthylene			<10					
Acetone	<10.00		<10.00	<10.00		<4.57	<10.00	<10.00
Acetonitrile			<10000					
Acetophenone			<10					
Acrolein			<10					
Acrylonitrile	<5		<5	<5		<5	<5	<5
Aldrin			<.064					
alpha-BHC			<.064					
Anthracene			<10					
Antimony	<2		<2	<2		<2	<2	<2

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-43

Constituents	Units	5/15/2013	4/22/2014	10/14/2014	5/12/2015	7/29/2015	2/15/2016	10/31/2016	3/27/2017
Arsenic	ug/L								
Barium	ug/L								
Benzene	ug/L								
Benzo [a] anthracene	ug/L								
Benzo [a] pyrene	ug/L								
Benzo [b] fluoranthene	ug/L								
Benzo [g,h,i] perylene	ug/L								
Benzo [k] fluoranthene	ug/L								
Benzyl alcohol	ug/L								
Beryllium	ug/L								
beta-BHC	ug/L								
Bis[2-chloroethoxy]methane	ug/L								
Bis[2-chloroethyl]ether	ug/L								
Bis[2-chloroisopropyl]ether	ug/L								
Bis[2-ethylhexyl]phthalate	ug/L								
Bromochloromethane	ug/L								
Bromodichloromethane	ug/L								
Bromoform	ug/L								
Bromomethane	ug/L								
Butyl benzyl phthalate	ug/L								
Cadmium	ug/L								
Carbon Disulfide	ug/L								
Carbon Tetrachloride	ug/L								
Chlordane	ug/L								
Chlorobenzene	ug/L								
Chlorobenzilate	ug/L								
Chlorodibromomethane	ug/L								
Chloroethane	ug/L								
Chloroform	ug/L								
Chloromethane	ug/L								
Chloroprene	ug/L								
Chromium	ug/L								
Chrysene	ug/L								
cis-1,2-Dichloroethene	ug/L								
cis-1,3-Dichloropropene	ug/L								
Cobalt	ug/L	37.000				111.000	<.257	.703	<.114
Copper	ug/L								
Cyanide	mg/L								
delta-BHC	ug/L								
Diallate [cis or trans]	ug/L								
Dibenz [a,h] anthracene	ug/L								
Dibenzofuran	ug/L								
Dichlorodifluoromethane	ug/L								
Dieldrin	ug/L								
Diethyl phthalate	ug/L								
Dimethoate	ug/L								
Dimethyl phthalate	ug/L								
Dimethylaminoazobenzene	ug/L								
Di-n-butyl phthalate	ug/L								
Di-n-octyl phthalate	ug/L								
Dinoseb	ug/L								
Diphenylamine	ug/L								
Disulfoton	ug/L								
Endosulfan I	ug/L								
Endosulfan II	ug/L								
Endosulfan sulfate	ug/L								
Endrin	ug/L								
Endrin aldehyde	ug/L								
Ethyl Methacrylate	ug/L								
Ethyl Methanesulfonate	ug/L								
Ethylbenzene	ug/L								
Famphur	ug/L								
Fluoranthene	ug/L								
Fluorene	ug/L								
gamma-BHC [Lindane]	ug/L								
Heptachlor	ug/L								
Heptachlor Epoxide	ug/L								
Hexachlorobenzene	ug/L								
Hexachlorobutadiene	ug/L								
Hexachlorocyclopentadiene	ug/L								
Hexachloroethane	ug/L								
Hexachloropropene	ug/L								
Indeno [1,2,3-cd] pyrene	ug/L								
Iodomethane	ug/L								
Isobutanol	ug/L								
Isodrin	ug/L								
Isophorone	ug/L								

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-43

Constituents	11/13/2017	6/6/2018	11/26/2018	3/18/2019	12/2/2019	3/30/2020	11/17/2020	5/6/2021	10/7/2021
Arsenic				<2.000	<1.260	<2.000	<1.040	<.768	<1.570
Barium									
Benzene									
Benzo [a] anthracene									
Benzo [a] pyrene									
Benzo [b] fluoranthene									
Benzo [g,h,i] perylene									
Benzo [k] fluoranthene									
Benzyl alcohol									
Beryllium									
beta-BHC									
Bis[2-chloroethoxy]methane									
Bis[2-chloroethyl]ether									
Bis[2-chloroisopropyl]ether									
Bis[2-ethylhexyl]phthalate									
Bromochloromethane									
Bromodichloromethane									
Bromoform									
Bromomethane									
Butyl benzyl phthalate									
Cadmium									
Carbon Disulfide									
Carbon Tetrachloride									
Chlordane									
Chlorobenzene									
Chlorobenzilate									
Chlorodibromomethane									
Chloroethane									
Chloroform									
Chloromethane									
Chloroprene									
Chromium									
Chrysene									
cis-1,2-Dichloroethene									
cis-1,3-Dichloropropene									
Cobalt	<.301	2.120	.723						
Copper									
Cyanide									
delta-BHC									
Diallate [cis or trans]									
Dibenz [a,h] anthracene									
Dibenzofuran									
Dichlorodifluoromethane									
Dieldrin									
Diethyl phthalate									
Dimethoate									
Dimethyl phthalate									
Dimethylaminoazobenzene									
Di-n-butyl phthalate									
Di-n-octyl phthalate									
Dinoseb									
Diphenylamine									
Disulfoton									
Endosulfan I									
Endosulfan II									
Endosulfan sulfate									
Endrin									
Endrin aldehyde									
Ethyl Methacrylate									
Ethyl Methanesulfonate									
Ethylbenzene									
Famphur									
Fluoranthene									
Fluorene									
gamma-BHC [Lindane]									
Heptachlor									
Heptachlor Epoxide									
Hexachlorobenzene									
Hexachlorobutadiene									
Hexachlorocyclopentadiene									
Hexachloroethane									
Hexachloropropene									
Indeno [1,2,3-cd] pyrene									
Iodomethane									
Isobutanol									
Isodrin									
Isophorone									

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-43

Constituents	4/6/2022	7/8/2022	8/23/2022	3/8/2023	7/21/2023	9/13/2023	5/29/2024	10/15/2024
Arsenic	<2.000		<.904	<.814		2.420	<.867	<4.000
Barium	249		264	202		348	173	231
Benzene	<.5		<.5	<.5		<.5	<.5	<1.0
Benzo [a] anthracene			<10					
Benzo [a] pyrene			<10					
Benzo [b] fluoranthene			<10					
Benzo [g,h,i] perylene			<10					
Benzo [k] fluoranthene			<10					
Benzyl alcohol			<10					
Beryllium	<1		<1	<1		<1	<1	<4
beta-BHC			<.064					
Bis[2-chloroethoxy]methane			<10					
Bis[2-chloroethyl]ether			<10					
Bis[2-chloroisopropyl]ether			<10					
Bis[2-ethylhexyl]phthalate			<10					
Bromochloromethane	<5		<5	<5		<5	<5	<1
Bromodichloromethane	<1		<1	<1		<1	<1	<1
Bromoform	<5		<5	<5		<5	<5	<1
Bromomethane	<4		<4	<4		<4	<4	<1
Butyl benzyl phthalate			<10					
Cadmium	<.070		.129	<.065		.240	<.200	<.800
Carbon Disulfide	<1.000		<.553	<1.000		<1.000	<1.000	<1.000
Carbon Tetrachloride	<2		<2	<2		<2	<2	<1
Chlordane			<2					
Chlorobenzene	<1		<1	<1		<1	<1	<1
Chlorobenzilate			<10					
Chlorodibromomethane	<5		<5	<5		<5	<5	<1
Chloroethane	<4		<4	<4		<4	<4	<1
Chloroform	<3		<3	<3		<3	<3	<1
Chloromethane	<3		<3	<3		<3	<3	<1
Chloroprene			<1					
Chromium	<5		<5	<5		<5	<5	<8
Chrysene			<10					
cis-1,2-Dichloroethene	<1		<1	<1		<1	<1	<1
cis-1,3-Dichloropropene	<5		<5	<5		<5	<5	<1
Cobalt	<.500		.919	<.369		13.000	<.500	1.300
Copper	<5		<5	<5		<5	<5	<4
Cyanide			<.01					
delta-BHC			<.064					
Diallate [cis or trans]			<10					
Dibenz [a,h] anthracene			<10					
Dibenzofuran			<10					
Dichlorodifluoromethane			<3					
Dieldrin			<.064					
Diethyl phthalate			<10					
Dimethoate			<10					
Dimethyl phthalate			<10					
Dimethylaminoazobenzene			<10					
Di-n-butyl phthalate			<10					
Di-n-octyl phthalate			<20					
Dinoseb			<10					
Diphenylamine			<10					
Disulfoton			<10					
Endosulfan I			<.064					
Endosulfan II			<.064					
Endosulfan sulfate			<.064					
Endrin			<.064					
Endrin aldehyde			<.064					
Ethyl Methacrylate			<2					
Ethyl Methanesulfonate			<10					
Ethylbenzene	<1		<1	<1		<1	<1	<1
Famphur			<10					
Fluoranthene			<10					
Fluorene			<10					
gamma-BHC [Lindane]			<.064					
Heptachlor			<.064					
Heptachlor Epoxide			<.064					
Hexachlorobenzene			<10					
Hexachlorobutadiene			<10					
Hexachlorocyclopentadiene			<10					
Hexachloroethane			<10					
Hexachloropropene			<10					
Indeno [1,2,3-cd] pyrene			<10					
Iodomethane	<10		<10	<10		<10	<10	<1
Isobutanol			<10000					
Isodrin			<10					
Isophorone			<10					

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-43

Constituents	Units	5/15/2013	4/22/2014	10/14/2014	5/12/2015	7/29/2015	2/15/2016	10/31/2016	3/27/2017
Isosafrole	ug/L								
Kepone	ug/L								
Lead	ug/L								
Mercury	ug/L								
Methacrylonitrile	ug/L								
Methapyrilene	ug/L								
Methoxychlor	ug/L								
Methyl Methacrylate	ug/L								
Methyl Methanesulfonate	ug/L								
Methylene Bromide	ug/L								
Methylene Chloride	ug/L								
Naphthalene	ug/L								
Nickel	ug/L								
Nitrobenzene	ug/L								
N-Nitrosodiethylamine	ug/L								
N-Nitrosodimethylamine	ug/L								
N-Nitrosodi-n-butylamine	ug/L								
N-Nitrosodi-n-propylamine	ug/L								
N-Nitrosodiphenylamine	ug/L								
N-Nitrosomethylethylamine	ug/L								
N-Nitrosopiperidine	ug/L								
N-Nitrosopyrrolidine	ug/L								
O,O,O-Triethyl Phosphorothioate	ug/L								
o-Toluidine	ug/L								
Parathion-Ethyl	ug/L								
Parathion-Methyl	ug/L								
PCB-1016	ug/L								
PCB-1221	ug/L								
PCB-1232	ug/L								
PCB-1242	ug/L								
PCB-1248	ug/L								
PCB-1254	ug/L								
PCB-1260	ug/L								
Pentachlorobenzene	ug/L								
Pentachloronitrobenzene	ug/L								
Pentachlorophenol [2C]	ug/L								
Phenacetin	ug/L								
Phenanthrene	ug/L								
Phenol	ug/L								
Phorate	ug/L								
Pronamide	ug/L								
Propionitrile	ug/L								
Pyrene	ug/L								
Safrole	ug/L								
Selenium	ug/L								
Silver	ug/L								
Styrene	ug/L								
Sulfide	mg/L	<1							
Tetrachloroethene	ug/L								
Thallium	ug/L								
Thionazin	ug/L								
Tin	ug/L								
Toluene	ug/L								
Total Suspended Solids	mg/L		142000.000	497.000	514.000	15300.000	25.800	6.500	<.875
Toxaphene	ug/L								
trans-1,2-Dichloroethene	ug/L								
trans-1,3-Dichloropropene	ug/L								
trans-1,4-Dichloro-2-Butene	ug/L								
Trichloroethene	ug/L								
Trichlorofluoromethane	ug/L								
Vanadium	ug/L								
Vinyl Acetate	ug/L								
Vinyl Chloride	ug/L								
Xylenes, total	ug/L								
Zinc	ug/L								

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-43

Constituents	11/13/2017	6/6/2018	11/26/2018	3/18/2019	12/2/2019	3/30/2020	11/17/2020	5/6/2021	10/7/2021
Isosafrole									
Kepone									
Lead									
Mercury									
Methacrylonitrile									
Methapyrilene									
Methoxychlor									
Methyl Methacrylate									
Methyl Methanesulfonate									
Methylene Bromide									
Methylene Chloride									
Naphthalene									
Nickel									
Nitrobenzene									
N-Nitrosodiethylamine									
N-Nitrosodimethylamine									
N-Nitrosodi-n-butylamine									
N-Nitrosodi-n-propylamine									
N-Nitrosodiphenylamine									
N-Nitrosomethylethylamine									
N-Nitrosopiperidine									
N-Nitrosopyrrolidine									
O,O,O-Triethyl Phosphorothioate									
o-Toluidine									
Parathion-Ethyl									
Parathion-Methyl									
PCB-1016									
PCB-1221									
PCB-1232									
PCB-1242									
PCB-1248									
PCB-1254									
PCB-1260									
Pentachlorobenzene									
Pentachloronitrobenzene									
Pentachlorophenol [2C]									
Phenacetin									
Phenanthrene									
Phenol									
Phorate									
Pronamide									
Propionitrile									
Pyrene									
Safrole									
Selenium									
Silver									
Styrene									
Sulfide									
Tetrachloroethene									
Thallium									
Thionazin									
Tin									
Toluene									
Total Suspended Solids	10.600	35.800	6.750	<1.880	4.250	<1.880	5.630	<1.250	29.300
Toxaphene									
trans-1,2-Dichloroethene									
trans-1,3-Dichloropropene									
trans-1,4-Dichloro-2-Butene									
Trichloroethene									
Trichlorofluoromethane									
Vanadium									
Vinyl Acetate									
Vinyl Chloride									
Xylenes, total									
Zinc									

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for MW-43

Constituents	4/6/2022	7/8/2022	8/23/2022	3/8/2023	7/21/2023	9/13/2023	5/29/2024	10/15/2024
Isosafrole			<10					
Kepone			<10					
Lead	<.5		<.5	<.5		<.5	<.5	<4.0
Mercury			<.2					
Methacrylonitrile			<10					
Methapyrilene			<10					
Methoxychlor			<.064					
Methyl Methacrylate			<2					
Methyl Methanesulfonate			<10					
Methylene Bromide	<1		<1	<1		<1	<1	<1
Methylene Chloride	<5		<5	<5		<5	<5	<5
Naphthalene			<5					
Nickel	<3.11		5.23	<2.91		5.90	<2.77	4.50
Nitrobenzene			<10					
N-Nitrosodiethylamine			<10					
N-Nitrosodimethylamine			<10					
N-Nitrosodi-n-butylamine			<10					
N-Nitrosodi-n-propylamine			<10					
N-Nitrosodiphenylamine			<10					
N-Nitrosomethylethylamine			<10					
N-Nitrosopiperidine			<10					
N-Nitrosopyrrolidine			<10					
O,O,O-Triethyl Phosphorothioate			<10					
o-Toluidine			<10					
Parathion-Ethyl			<10					
Parathion-Methyl			<10					
PCB-1016			<.8					
PCB-1221			<.8					
PCB-1232			<.8					
PCB-1242			<.8					
PCB-1248			<.8					
PCB-1254			<.8					
PCB-1260			<.8					
Pentachlorobenzene			<10					
Pentachloronitrobenzene			<10					
Pentachlorophenol [2C]			<10					
Phenacetin			<10					
Phenanthrene			<10					
Phenol			<10					
Phorate			<10					
Pronamide			<10					
Propionitrile			<10					
Pyrene			<10					
Safrole			<10					
Selenium	27.5	<5.0	<5.0	24.4	<5.0	<5.0	<5.0	<4.0
Silver	<1		<1	<1		<1	<1	<4
Styrene	<1		<1	<1		<1	<1	<1
Sulfide			<1					
Tetrachloroethene	<1		<1	<1		<1	<1	<1
Thallium	<1		<1	<1		<1	<1	<2
Thionazin			<10					
Tin			<5					
Toluene	<1		<1	<1		<1	<1	<1
Total Suspended Solids	<.875	2.880	12.000	2.500	47.500	25.000	<1.880	
Toxaphene			<2					
trans-1,2-Dichloroethene	<1		<1	<1		<1	<1	<1
trans-1,3-Dichloropropene	<5		<5	<5		<5	<5	<1
trans-1,4-Dichloro-2-Butene	<10		<10	<10		<10	<10	<5
Trichloroethene	<1		<1	<1		<1	<1	<1
Trichlorofluoromethane	<4		<4	<4		<4	<4	<1
Vanadium	<1.98		<1.76	<1.78		<2.19	<5.00	<20.00
Vinyl Acetate	<10		<10	<10		<10	<10	<5
Vinyl Chloride	<1		<1	<1		<1	<1	<1
Xylenes, total	<3		<3	<3		<3	<3	<2
Zinc	<20		<20	<20		<20	<20	<20

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for UD-0

Constituents	Units	4/30/2008	10/14/2014	7/29/2015	2/15/2016	4/6/2022	3/8/2023	9/13/2023
1,1,1,2-Tetrachloroethane	ug/L	<.33	<1.00	<1.00	<1.00	<1.00	<1.00	<10.00
1,1,1-Trichloroethane	ug/L	<.19	<1.00	<1.00	<1.00	<1.00	<1.00	<10.00
1,1,2,2-Tetrachloroethane	ug/L	<.23	<1.00	<1.00	<1.00	<1.00	<1.00	<10.00
1,1,2-Trichloroethane	ug/L	<.37	<1.00	<1.00	<1.00	<1.00	<1.00	<10.00
1,1-Dichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<10
1,1-Dichloroethene	ug/L	<.37	<2.00	<2.00	<2.00	<2.00	<2.00	<20.00
1,2,3-Trichloropropane	ug/L	<.7	<1.0	<1.0	<1.0	<1.0	<1.0	<10.0
1,2-Dibromo-3-Chloropropane	ug/L	<.86	<.12	<.50	<.50	<5.00	<5.00	<50.00
1,2-Dibromoethane	ug/L	<.25	<.13	<.13	<.13	<1.00	<1.00	<10.00
1,2-Dichlorobenzene	ug/L	<.21	<1.00	<1.00	<1.00	<1.00	<1.00	<10.00
1,2-Dichloroethane	ug/L	<.2	<1.0	<1.0	<1.0	<1.0	<1.0	<10.0
1,2-Dichloropropane	ug/L	<.4	<1.0	<1.0	<1.0	<1.0	<1.0	<10.0
1,4-Dichlorobenzene	ug/L	<.16	<1.00	<1.00	<1.00	<1.00	<1.00	<10.00
2-Butanone	ug/L	<.91	<10.00	<10.00	<10.00	<10.00	<10.00	<100.00
2-Hexanone	ug/L	<1.76	<10.00	<10.00	<10.00	<10.00	<10.00	<100.00
4-Methyl-2-Pentanone	ug/L	<.31	<10.00	<10.00	<10.00	<10.00	<10.00	<100.00
Acetone	ug/L	<4.62	<10.00	<10.00	<10.00	<10.00	<10.00	<100.00
Acrylonitrile	ug/L	<1.28	<10.00	<10.00	<10.00	<5.00	<5.00	<50.00
Antimony	ug/L	<1.790	<6.000	<.777	1.570	<1.550	<2.000	2.250
Arsenic	ug/L	<.340	<.761	4.410	6.990	2.700	2.540	3.440
Barium	ug/L	121	232	372	592	797	877	940
Benzene	ug/L	<.16	<.50	<.50	<.50	<.50	<.50	<5.00
Beryllium	ug/L	<.028	<1.000	<1.000	<1.000	<1.000	<1.000	<1.000
Bromochloromethane	ug/L	<.76	<5.00	<5.00	<5.00	<5.00	<5.00	<50.00
Bromodichloromethane	ug/L	<.2	<1.0	<1.0	<1.0	<1.0	<1.0	<10.0
Bromoform	ug/L	<.43	<5.00	<5.00	<5.00	<5.00	<5.00	<50.00
Bromomethane	ug/L	<.480	<4.000	<4.000	<.245	<4.000	<4.000	<40.000
Cadmium	ug/L	<.170	<.078	<.500	<.113	.296	.124	.305
Carbon Disulfide	ug/L	<.18	<1.00	<1.00	<1.00	<1.00	<1.00	<10.00
Carbon Tetrachloride	ug/L	<.31	<2.00	<2.00	<2.00	<2.00	<2.00	<20.00
Chlorobenzene	ug/L	<.17	<1.00	<1.00	<1.00	<1.00	<1.00	<10.00
Chlorodibromomethane	ug/L	<.26	<5.00	<5.00	<5.00	<5.00	<5.00	<50.00
Chloroethane	ug/L	<.5	<4.0	<4.0	<4.0	<4.0	<4.0	<40.0
Chloroform	ug/L	<.17	<1.00	<1.00	<1.00	<3.00	<3.00	<30.00
Chloromethane	ug/L	<.200	<3.000	<3.000	<.354	<3.000	<3.000	<30.000
Chromium	ug/L	<1.73	<20.00	<1.85	5.16	6.65	<2.78	7.68
cis-1,2-Dichloroethene	ug/L	<.37	<1.00	<1.00	<1.00	<1.00	<1.00	<10.00
cis-1,3-Dichloropropene	ug/L	<.23	<5.00	<5.00	<5.00	<5.00	<5.00	<50.00
Cobalt	ug/L	<1.40	<2.41	6.09	8.90	22.00	8.90	27.80
Copper	ug/L	<13.10	<3.94	<1.23	4.10	15.00	6.55	18.60
Ethylbenzene	ug/L	<.25	<1.00	<1.00	<1.00	<1.00	<1.00	<10.00
Iodomethane	ug/L	<.4	<10.0	<10.0	<10.0	<10.0	<10.0	<100.0
Lead	ug/L	<.370	<4.000	.981	.571	.788	<.358	.680
Methylene Bromide	ug/L	<.3	<1.0	<1.0	<1.0	<1.0	<1.0	<10.0
Methylene Chloride	ug/L	<.450	<5.000	<5.000	<.191	<5.000	<5.000	<50.000
Nickel	ug/L	<4.6	50.5	42.7	72.7	121.0	76.8	128.0
Selenium	ug/L	<1.44	<5.00	<5.00	<5.00	<2.35	<1.45	<3.66
Silver	ug/L	<2.61	<20.00	<1.00	<1.00	<1.00	<1.00	<1.00
Styrene	ug/L	<.19	<1.00	<1.00	<1.00	<1.00	<1.00	<10.00
Tetrachloroethene	ug/L	<.38	<1.00	<1.00	<1.00	<1.00	<1.00	<10.00
Thallium	ug/L	<.700	<2.000	<.086	<1.000	<1.000	<1.000	<1.000
Toluene	ug/L	<.14	<1.00	<1.00	<1.00	<1.00	<1.00	<10.00
Total Suspended Solids	mg/L		4.22	6.83	<2.67	<3.33	2.63	5.75
trans-1,2-Dichloroethene	ug/L	<.31	<1.00	<1.00	<1.00	<1.00	<1.00	<10.00
trans-1,3-Dichloropropene	ug/L	<.17	<5.00	<5.00	<5.00	<5.00	<5.00	<50.00
trans-1,4-Dichloro-2-Butene	ug/L	<1.8	<10.0	<10.0	<10.0	<10.0	<10.0	<100.0
Trichloroethene	ug/L	<.24	<1.00	<1.00	<1.00	<1.00	<1.00	<10.00
Trichlorofluoromethane	ug/L	<.26	<4.00	<4.00	<4.00	<4.00	<4.00	<40.00
Vanadium	ug/L	<1.60	<50.00	<1.79	<3.24	<2.44	<3.00	<3.06
Vinyl Acetate	ug/L	<1.36	<10.00	<10.00	<10.00	<10.00	<10.00	<100.00
Vinyl Chloride	ug/L	<.26	<1.00	<1.00	<1.00	<1.00	<1.00	<10.00
Xylenes, total	ug/L	<.3	<3.0	<3.0	<3.0	<3.0	<3.0	<30.0
Zinc	ug/L	<5.27	<20.00	<10.00	<10.00	<20.00	<20.00	<8.74

* - The displayed value is the arithmetic mean of multiple database matches.

Table 9

Analytical Data Summary for UD-1

Constituents	Units	3/30/2020
1,1,1,2-Tetrachloroethane	ug/L	<1
1,1,1-Trichloroethane	ug/L	<1
1,1,2,2-Tetrachloroethane	ug/L	<1
1,1,2-Trichloroethane	ug/L	<1
1,1-Dichloroethane	ug/L	<1
1,1-Dichloroethene	ug/L	<2
1,2,3-Trichloropropane	ug/L	<1
1,2-Dibromo-3-Chloropropane	ug/L	<5
1,2-Dibromoethane	ug/L	<1
1,2-Dichlorobenzene	ug/L	<1
1,2-Dichloroethane	ug/L	<1
1,2-Dichloropropane	ug/L	<1
1,4-Dichlorobenzene	ug/L	<1
2-Butanone	ug/L	<10
2-Hexanone	ug/L	<10
4-Methyl-2-Pentanone	ug/L	<10
Acetone	ug/L	<10
Acrylonitrile	ug/L	<5
Antimony	ug/L	<1
Arsenic	ug/L	<2
Barium	ug/L	156
Benzene	ug/L	<.5
Beryllium	ug/L	<1
Bromochloromethane	ug/L	<5
Bromodichloromethane	ug/L	<1
Bromoform	ug/L	<5
Bromomethane	ug/L	<4
Cadmium	ug/L	<.1
Carbon Disulfide	ug/L	<1
Carbon Tetrachloride	ug/L	<2
Chlorobenzene	ug/L	<1
Chlorodibromomethane	ug/L	<5
Chloroethane	ug/L	<4
Chloroform	ug/L	<3
Chloromethane	ug/L	<3
Chromium	ug/L	<5
cis-1,2-Dichloroethene	ug/L	<1
cis-1,3-Dichloropropene	ug/L	<5
Cobalt	ug/L	<.5
Copper	ug/L	<5
Ethylbenzene	ug/L	<1
Iodomethane	ug/L	<10
Lead	ug/L	<.5
Methylene Bromide	ug/L	<1
Methylene Chloride	ug/L	<10
Nickel	ug/L	<5
Selenium	ug/L	<1.29
Silver	ug/L	<1
Styrene	ug/L	<1
Tetrachloroethene	ug/L	<1
Thallium	ug/L	<1
Toluene	ug/L	<1
Total Suspended Solids	mg/L	<1
trans-1,2-Dichloroethene	ug/L	<1
trans-1,3-Dichloropropene	ug/L	<5
trans-1,4-Dichloro-2-Butene	ug/L	<10
Trichloroethene	ug/L	<1
Trichlorofluoromethane	ug/L	<4
Vanadium	ug/L	<5
Vinyl Acetate	ug/L	<10
Vinyl Chloride	ug/L	<1
Xylenes, total	ug/L	<3
Zinc	ug/L	<20

* - The displayed value is the arithmetic mean of multiple database matches.

Table 10 – Historic SSI and SSL **- (Not Required)**

Table 11 – Corrective Action Trend Analysis **- (Not Required)**

Table 12 – Leachate Levels 2024

Table 12
Leachate Level Summary
2024 Annual Water Quality Report
Cass County Sanitary Landfill
Permit No. 15-SDP-01-75C

Date	LINED LANDFILL - HEAD ON LINER (FEET)			UNLINED LANDFILL - LEACHATE THICKNESS (FEET)				
	Phase 0	Phase 1	Phase 2					
	LPZ-0 8.0' Depth	LPZ-1 9.5' Depth	LPZ-2 12.9' Depth	PZ-1R 40.5' Depth	PZ-2 34.6' Depth	PZ-3R 50.2' Depth	PZ-4 30.8' Depth	PZ-5R 53.8' Depth
1/30/24	0	0	0	0	0	16.5	0.9	0.6
2/29/24	0	0	0	0	0	15.5	0.6	1.7
3/24/24	0	0	NR (1)	0	0	15.6	0.7	1.4
4/11/24	0	0	0	0.4	0	17	1.4	1.6
5/29/24	0	0	0	0.4	0	15.4	1.5	1.6
6/24/24	0	0	0	0.5	0	15.7	0.6	1
7/22/24	0	0	0	0.3	0	15.6	0.4	0.9
8/9/24	0	0	0	0.1	0	15	0.4	1
9/20/24	0	0	0	0.2	0	14.8	0.5	1.1
10/29/24	0	0	0	0	0	15.6	0	1.4
11/21/24	0	0	NR (2)	0.3	0	15.4	0	2.5
12/9/24	0	0	NR (2)	0.3	0	15.2	0	2.4

LPZ and PZ depth measurements completed in 2022 by others, will be remeasured in 2025.

NR(1) = Measurement inadvertently omitted
NR(2) = Point damaged and could not be measured

Table 12A – Leachate Levels Historic

Table E-2
Historical Leachate Column Thicknesses
Table 12A
Historic - Leachate Data
Cass County Sanitary Landfill
Permit No. 15-SDP-01-75P

Date	LEACHATE COLUMN THICKNESS										
	LPZ-0	**LPZ-1**	**LPZ-2[3,8]**	**PZ-1R**	**PZ-2**	**PZ-3R [2]**	**PZ-4**	**PZ-5R**	**PZ-6**	**PZ-7**	**PZ-8**
TOC	151.00	151.00	117.22	83.13	147.30	109.60	150.00	111.78	111.34	133.90	133.29
Constructed Depth	9.00	NM	NM	37.00	55.00	13.44	44.43	47.94	50.00	55.00	58.00
Measured Depth (6/24/2009)	38.00	10.00	12.75	42.30	35.00	50.00	31.50	54.00	NA	NA	NA
3/6/2006					17.20	Dry	Dry				
9/12/2006					16.60	Dry	Dry				
3/29/2007					15.80		11.93				
9/28/2007					Dry		Dry				
4/29/2008	Dry				Dry	Dry	Dry				
9/11/2008	Dry				Dry	Dry	Dry				
3/3/2009				Dry	Dry	Dry	Dry	7.79			
8/21/2009				Dry	Dry	22.7	Dry	9.24			
9/24/2009	2.0	0.8		Dry	Dry	22.0	Dry	6.8			
10/27/2009	2.0	1.0		Dry	Dry	21.5	Dry	8.2			
11/24/2009	Dry	0.8		Dry	Dry	21.3	Dry	11.5			
12/17/2009	Dry	Dry		Dry	Dry	20.8	Dry	6.5			
1/27/2010	[1]	0.2		Dry	Dry	20.8	Dry	6.5			
2/23/2010	[1]	0.3		Dry	Dry	20.8	Dry	8.0			
3/30/2010	[1]	0.2		Dry	Dry	20.8	Dry	9.0			
4/27/2010	Dry	2.0		Dry	Dry	21.0	Dry	8.8			
5/26/2010	Dry	2.0		Dry	Dry	21.4	Dry	11.0			
6/25/2010	Dry	2.8		Dry	Dry	21.6	Dry	11.5			
7/28/2010	Dry	2.0		Dry	Dry	21.6	Dry	11.4			
8/13/2010	Dry	1.0		Dry	Dry	21.5	Dry	11.4			
9/17/2010	Dry	1.0		Dry	Dry	21.5	Dry	11.5			
10/15/2010	Dry	0.2		Dry	Dry	21.3	Dry	11.5			
11/23/2010	Dry	0.0		Dry	Dry	21.0	Dry	10.0			
12/16/2010	Dry	0.2		Dry	Dry	21.4	Dry	10.0			
1/13/2011	Dry	0.2		Dry	Dry	21.0	Dry	10.2			
2/24/2011	Dry	0.2		Dry	Dry	21.0	Dry	10.0			
3/17/2011	Dry	0.0		Dry	Dry	20.5	Dry	9.0			
4/12/2011	Dry	0.0		Dry	Dry	20.9	Dry	10.0			
5/18/2011	Dry	0.0		Dry	Dry	20.6	Dry	10.6			
6/16/2011	Dry	Dry		Dry	Dry	20.2	Dry	9.3			
7/14/2011	Dry	Dry		Dry	Dry	20.2	Dry	9.3			
8/24/2011	Dry	Dry		Dry	Dry	20.4	Dry	9.5			
9/14/2011	Dry	Dry		Dry	Dry	22.2	Dry	9.4			
10/18/2011	Dry	Dry		Dry	Dry	20.4	Dry	9.5			
11/10/2011	Dry	Dry		Dry	Dry	20.3	Dry	9.4			
12/7/2011	Dry	Dry		Dry	Dry	20.4	Dry	9.5			
1/24/2012	Dry	Dry		Dry	Dry	19.8	Dry	7.7			
2/14/2012	Dry	Dry		Dry	Dry	20.2	Dry	8.0			
3/27/2012	Dry	Dry		Dry	Dry	19.4	Dry	7.5			
4/19/2012	Dry	Dry		Dry	Dry	19.4	Dry	7.5			
5/14/2012	Dry	Dry		Dry	Dry	19.2	Dry	7.3			
6/12/2012	Dry	Dry		Dry	Dry	20.4	Dry	7.1			
7/18/2012	Dry	Dry	Dry	Dry	Dry	19.8	Dry	6.8			
8/16/2012	Dry	Dry	Dry	Dry	Dry	19.4	Dry	6.7			
9/17/2012	Dry	Dry	Dry	Dry	Dry	19.5	Dry	6.9			
10/15/2012	Dry	Dry	Dry	Dry	Dry	19.2	Dry	6.9			
11/21/2012	Dry	Dry	Dry	Dry	Dry	19.1	Dry	6.9			
12/18/2012	Dry	Dry	Dry	Dry	Dry	19.8	Dry	6.3			

Table E-2
Historical Leachate Column Thicknesses
Table 12A
Historic - Leachate Data
Cass County Sanitary Landfill
Permit No. 15-SDP-01-75P

Date	LEACHATE COLUMN THICKNESS										
	LPZ-0	**LPZ-1**	**LPZ-2[3,8]**	**PZ-1R**	**PZ-2**	**PZ-3R [2]**	**PZ-4**	**PZ-5R**	**PZ-6**	**PZ-7**	**PZ-8**
TOC	151.00	151.00	117.22	83.13	147.30	109.60	150.00	111.78	111.34	133.90	133.29
Constructed Depth	9.00	NM	NM	37.00	55.00	13.44	44.43	47.94	50.00	55.00	58.00
Measured Depth (6/24/2009)	38.00	10.00	12.75	42.30	35.00	50.00	31.50	54.00	NA	NA	NA
1/25/2013	Dry	Dry	Dry	Dry	Dry	19.8	Dry	Dry			
2/12/2013	Dry	Dry	Dry	Dry	Dry	19.8	Dry	6.3			
3/26/2013	Dry	Dry	Dry	Dry	Dry	19.7	Dry	6.5			
4/5/2013	Dry	Dry	Dry	Dry	Dry	19.7	Dry	6.5			
5/9/2013	Dry	Dry	Dry	Dry	Dry	18.9	Dry	6.4			
6/20/2013	Dry	Dry	Dry	Dry	Dry	18.9	0.6	6.4			
7/22/2013	Dry	Dry	Dry	Dry	Dry	18.9	0.7	6.4			
8/1/2013	Dry	Dry	Dry	Dry	Dry	18.9	Dry	6.4			
9/24/2013	Dry	Dry	Dry	Dry	Dry	19.0	Dry	6.1			
10/17/2013	Dry	Dry	Dry	Dry	Dry	18.9	Dry	6.1			
11/18/2013	Dry	Dry	Dry	Dry	Dry	18.9	Dry	6.1			
12/3/2013	Dry	Dry	Dry	Dry	Dry	18.9	Dry	6.5			
1/22/2014	Dry	Dry	Dry	Dry	Dry	18.9	Dry	6.1			
2/10/2014	Dry	Dry	Dry	Dry	Dry	18.9	Dry	6.1			
3/11/2014	Dry	Dry	Dry	Dry	Dry	19.0	Dry	6.1			
4/19/2014	Dry	Dry	Dry	Dry	Dry	19.0	Dry	6.0			
5/20/2014	Dry	Dry	Dry	Dry	Dry	18.8	Dry	6.0			
6/24/2014		Dry	Dry	Dry	Dry	19.0	Dry	6.0			
7/14/2014		Dry	Dry	Dry	Dry	19.2	Dry	6.0			
8/12/2014		Dry	Dry	Dry	Dry	19.6	Dry	6.0			
9/17/2014		Dry	Dry	Dry	Dry	19.6	Dry	6.0			
10/21/2014		Dry	Dry	Dry	Dry	20.9	Dry	5.7			
11/25/2014		Dry	Dry	Dry	Dry	20.6	Dry	5.7			
12/12/2014		Dry	Dry	Dry	Dry	20.7	Dry	5.7			
1/22/2015		Dry	Dry	Dry	Dry	20.6	Dry	5.5			
2/24/2015		Dry	Dry	Dry	Dry	20.6	Dry	5.5			
3/24/2015		Dry	Dry	Dry	Dry	20.6	Dry	5.5			
4/16/2015		Dry	Dry	Dry	Dry	20.5	Dry	5.5			
5/21/2015		Dry	Dry	Dry	Dry	20.6	Dry	5.5			
10/21/2015		Dry	Dry	Dry	Dry	20.4	Dry	5.6	16.2	22.7	15.5
11/16/2015	0.4	Dry	Dry	1.3	Dry	19.6	Dry	5.7	17.9	23.1	15.4
12/8/2015	0.8	Dry	Dry	2.3	Dry	Dry	Dry	5.6	19.1	24.8	15.8
1/18/2016	0.7	Dry	Dry	1.2	Dry	19.9	1.8	5.5	18.0	22.9	15.2
2/20/2016	0.4	Dry	Dry	1.3	Dry	19.3	1.7	5.2	15.0	23.0	15.1
3/22/2016	0.3	Dry	Dry	1.4	Dry	19.5	1.4	5.3	16.0	22.9	15.8
4/21/2016	0.4	Dry	Dry	1.3	Dry	19.5	Dry	5.3	16.0	22.0	15.7
5/19/2016	0.2	Dry	Dry	1.4	Dry	19.3	Dry	5.3	16.0	19.0	14.2
6/30/2016	0.3	Dry	Dry	1.4	Dry	17.1	Dry	4.5	19.9	21.3	13.6
7/26/2016	0.2	Dry	Dry	1.3	Dry	19.2	Dry	5.3	16.1	22.5	15.0
8/29/2016	0.6	Dry	Dry	1.3	Dry	19.4	Dry	5.4	16.2	22.6	15.0
9/30/2016	0.3	Dry	Dry	1.4	Dry	19.1	Dry	5.2	16.1	22.2	14.5
10/24/2016	0.2	Dry	Dry	1.1	Dry	18.9	Dry	5.3	16.2	22.4	15.0
11/16/2016	0.2	Dry	Dry	1.2	Dry	19.0	Dry	5.1	16.2	22.5	15.0
12/22/2016	0.2	Dry	Dry	1.3	Dry	19.1	1.5	5.1	16.0	22.1	15.1

Table E-2
Historical Leachate Column Thicknesses
Table 12A
Historic - Leachate Data
Cass County Sanitary Landfill
Permit No. 15-SDP-01-75P

Date	LEACHATE COLUMN THICKNESS										
	LPZ-0	LPZ-1	LPZ-2 (3,8)	PZ-1R	PZ-2	PZ-3R (2)	PZ-4	PZ-5R	PZ-6	PZ-7	PZ-8
TOC	151.00	151.00	117.22	83.13	147.30	109.60	150.00	111.78	111.34	133.90	133.29
Constructed Depth	9.00	NM	NM	37.00	55.00	13.44	44.43	47.94	50.00	55.00	58.00
Measured Depth (6/24/2009)	38.00	10.00	12.75	42.30	35.00	50.00	31.50	54.00	NA	NA	NA
1/20/2017	0.1	Dry	Dry	1.3	Dry	19.9	Dry	5.8	19.2	24.0	15.9
2/17/2017	0.6	Dry	Dry	Dry	0.1	18.8	Dry	6.7	16.0	22.8	15.5
3/29/2017	0.6	Dry	Dry	1.3	Dry	19.1	Dry	Dry	16.3	22.8	15.4
4/27/2017	0.4	Dry	Dry	0.5	Dry	19.3	Dry	5.3	15.2	22.4	15.0
5/30/2017	0.7	Dry	Dry	1.3	Dry	19.1	Dry	Dry	16.2	22.4	15.1
6/22/2017	0.8	Dry	Dry	1.2	Dry	18.0	Dry	Dry	18.0	22.5	15.3
7/26/2017	0.9	Dry	Dry	1.2	Dry	12.0	Dry	Dry	18.8	22.5	15.3
8/22/2017	1.0	Dry	Dry	1.3	Dry	18.9	Dry	5.2	16.3	22.3	14.5
9/14/2017	0.8	Dry	Dry	1.3	Dry	10.1	Dry	5.0	19.1	22.4	15.2
10/24/2017	0.7	Dry	Dry	0.6	Dry	18.8	Dry	5.1	19.2	22.2	15.0
11/17/2017	0.4	Dry	Dry	1.3	Dry	19.0	Dry	5.2	16.3	22.1	14.9
12/12/2017	0.6	Dry	Dry	Dry	Dry	18.5	Dry	4.6	Dry	21.9	14.8
1/25/2018	0.7	Dry	Dry	Dry	Dry	18.4	Dry	9.8	14.6	22.3	14.9
2/27/2018	0.8	Dry	Dry	0.5	Dry	18.2	Dry	9.5	14.8	22.4	15.0
3/22/2018	0.5	Dry	Dry	Dry	Dry	18.4	Dry	4.8	Dry	21.8	14.6
4/23/2018	0.6	Dry	Dry	Dry	Dry	18.3	Dry	9.6	14.9	22.2	14.8
5/23/2018	0.4	Dry	Dry	Dry	Dry	18.2	Dry	8.9	14.8	22.1	14.7
6/30/2018	0.5	Dry	Dry	1.4	Dry	18.1	Dry	4.0	16.7	22.3	14.7
7/25/2018	Dry	Dry	Dry	1.3	Dry	14.9	Dry	4.1	22.2	21.1	12.9
8/28/2018	0.2	Dry	Dry	1.1	Dry	15.2	Dry	4.3	20.6	21.0	24.2
9/19/2018	0.7	Dry	Dry	1.3	Dry	7.3	Dry	5.3	18.9	21.2	13.9
10/24/2018	0.3	Dry	Dry	1.3	Dry	0.8	Dry	4.2	23.6	18.8	13.3
11/26/2018	0.9	Dry	Dry	1.2	Dry	1.3	Dry	5.1	21.9	21.0	13.4
12/21/2018	0.7	Dry	Dry	Dry	Dry	16.9	Dry	Dry	10.5		
1/18/2019	0.9	Dry	Dry	Dry	Dry	17.1	Dry	Dry	10.6	22.4	17.3
2/21/2019	0.6	Dry	Dry	1.3	Dry	16.9	Dry	Dry	12.1	22.5	19.2
3/24/2019	0.5	Dry	Dry	Dry	Dry	17.0	Dry	Dry	10.8	22.7	17.9
4/26/2019	0.6	Dry	Dry	Dry	Dry	17.3	Dry	Dry	16.8	22.0	12.9
5/31/2019	0.7	Dry	Dry	Dry	Dry	17.0	Dry	Dry	17.0	21.6	13.1
6/28/2019	0.8	Dry	Dry	Dry	Dry	17.2	Dry	Dry	16.8	21.9	13.3
7/31/2019	0.7	Dry	Dry	Dry	Dry	17.5	Dry	Dry	16.9	22.1	12.9
8/28/2019	0.2	Dry	Dry	1.2	Dry	17.3	1.7	8.4	12.2	22.8	19.5
9/27/2019	0.5	Dry	Dry	Dry	Dry	17.1	Dry	Dry	14.2	21.9	17.9
10/1/2019											
11/19/2019	1.1	Dry	Dry	0.5	Dry	17.2	Dry	3.8	11.2	22.1	14.8
12/20/2019	0.8	Dry	Dry	0.8	Dry	17.2	Dry	Dry	11.9	22.5	17.7
1/1/2020	0.9	Dry		Dry	Dry	17.3	Dry	Dry	11.8	22.6	17.8
2/1/2020	0.9	Dry		Dry	Dry	17.4	Dry	Dry	17.0	22.1	12.9
3/1/2020	0.5	Dry		0.9	Dry	16.0	Dry	Dry	12.5	22.6	17.9
4/1/2020	0.3	0.7	0.4	1.1	Dry	17.1	1.3	4.1	8.4	22.0	14.7
5/1/2020	1.2	Dry		Dry	Dry	16.9	Dry	Dry	10.3	22.2	17.0
6/1/2020	0.2	0.8		Dry	Dry	17.2	1.9	5.5	6.5	21.6	14.6
7/1/2020	1.0	Dry	0.1	Dry	Dry	17.0	Dry	Dry	17.2	22.2	13.2
8/1/2020	0.3	Dry	Dry	1.5	2.0	16.8	1.4	5.4	13.4	21.7	13.9
9/1/2020	0.4	Dry	Dry	Dry	Dry	17.2	Dry	Dry	16.8	21.9	13.3
10/1/2020	0.5	1.0	0.1	1.4	1.0	16.7	1.1	5.0	13.6	21.5	13.6
11/1/2020	1.0	1.2		1.3	0.4	16.6	0.9	3.4	14.8	21.5	13.2
12/1/2020	1.4	Dry	Dry	Dry	Dry	16.8	3.9	3.5	6.2	21.5	13.0

Table E-2
Historical Leachate Column Thicknesses
Table 12A
Historic - Leachate Data
Cass County Sanitary Landfill
Permit No. 15-SDP-01-75P

Date	LEACHATE COLUMN THICKNESS										
	LPZ-0	**LPZ-1**	**LPZ-2(3,8)**	**PZ-1R**	**PZ-2**	**PZ-3R (2)**	**PZ-4**	**PZ-5R**	**PZ-6**	**PZ-7**	**PZ-8**
TOC	151.00	151.00	117.22	83.13	147.30	109.60	150.00	111.78	111.34	133.90	133.29
Constructed Depth	9.00	NM	NM	37.00	55.00	13.44	44.43	47.94	50.00	55.00	58.00
Measured Depth (6/24/2009)	38.00	10.00	12.75	42.30	35.00	50.00	31.50	54.00	NA	NA	NA
1/21/2021	Dry	Dry	Dry	Dry	Dry	17.2	0.7	3.0	7.1	22.1	13.0
2/3/2021	0.5	0.4	0.2	Dry	Dry	17.0	1.4	3.4	6.6	22.0	13.4
3/31/2021	Dry	Dry	Dry	Dry	Dry	18.0	1.5	10.7		22.0	13.9
4/27/2021	Dry	0.7	Dry	Dry	Dry	Dry	0.2	21.5	1.7	14.0	15.3
5/25/2021	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	5.1	21.6	13.2
6/23/2021	Dry	Dry	Dry	Dry	2.6	Dry	Dry	3.1	10.2	21.7	13.5
7/26/2021	Dry	Dry	Dry	Dry	Dry	17.4	1.8	3.4	9.8	21.7	13.6
8/11/2021											
9/14/2021	Dry	Dry	Dry	3.7		19.8	3.6	4.2	5.5	21.8	13.4
10/15/2021	Dry	Dry	Dry	Dry	3.2	11.8	3.0	7.3	11.4	21.6	19.5
11/29/2021	Dry	Dry	Dry	Dry	3.9	10.9	1.7	5.7	10.4	23.4	21.9
12/21/2021	Dry	Dry	Dry	Dry	Dry	16.5	1.7	3.5	7.2	21.6	13.9
1/11/2022	0.9	1.1	0.2	1.7	4.4	17.2	0.3	15.9	5.6	21.5	19.4
2/28/2022	Dry	0.8	Dry	2.3	2.0	18.8	1.3	3.8	7.7	23.9	19.9
3/30/2022	Dry	Dry	Dry	Dry	Dry	16.4	1.6	3.4	7.5	22.0	14.4
4/25/2022	Dry	Dry	Dry	8.8	7.0	18.0	Dry	1.1	7.2	23.0	14.6
5/30/2022	Dry	Dry	Dry	8.6	7.2	17.7	Dry	1.2	7.0	22.9	14.2
6/20/2022	Dry	Dry	Dry	9.3	6.9	18.1	2.2	12.7	7.0	23.1	14.1
7/25/2022	Dry	Dry	Dry	11.7	Dry	16.9	Dry	14.9	8.8	23.1	16.0
8/31/2022	Dry	Dry	Dry	11.5	Dry	17.4	1.5	3.2	15.8	22.0	20.4
9/30/2022	Dry	Dry	0.8	10.2	7.7	16.2	Dry	14.8	8.8	16.8	17.2
10/21/2022	Dry	Dry	Dry	Dry	Dry	16.8	0.9	3.8	6.4	23.2	13.5
11/8/2022	Dry	Dry	Dry	Dry	Dry	0.1	1.3	5.1	15.4	19.3	14.4
1/6/2023	Dry	Dry	Dry	Dry		15.9	1.4	2.7	14.5	21.0	12.7
2/28/2023	Dry	Dry	Dry	Dry	Dry	15.5	1.3	3.1	14.7	21.6	12.9
3/24/2023	Dry	Dry	Dry	Dry	Dry	16.1	1.4	3.8	13.9	21.0	13.6
4/26/2023	Dry	Dry	Dry	Dry	Dry	15.7	1.8	2.9	16.8	21.2	13.7
5/31/2023	Dry	Dry	Dry	Dry	Dry	15.5	1.7	2.7	15.0	21.5	20.5
6/22/2023	Dry	Dry	Dry	Dry	Dry	13.1	Dry	1.6	7.0	21.3	13.5
7/26/2023	Dry		Dry	Dry	0.8	13.4	Dry	1.9	6.1	21.2	12.6
8/25/2023	Dry	Dry	Dry	Dry	0.9	13.2	Dry	1.7	6.6	21.9	12.3
9/26/2023	Dry	Dry	Dry	2.4	Dry	15.4	Dry	1.6	6.2	21.1	12.5
10/27/2023	Dry	Dry	Dry	Dry	Dry	16.4	Dry	2.6	7.2	20.7	12.0
11/9/2023	Dry	Dry	Dry	Dry	Dry	0.9	Dry	2.1	5.6	20.7	8.8
12/14/2023	Dry	Dry	Dry	Dry	Dry	16.3	Dry	2.6	Dry	20.6	11.9

Notes:
NI = Not Installed.
NA = Not Available; Monitoring point has been abandoned.
NM = Not Measured.
1. LPZ-0 not accessible due to weather-related conditions on steep slope.
2. PZ-3 abandoned in April 2009 at a depth of approximately 13 feet, and PZ-3R installed in April 2009 at depth of 50 feet.
3. TOC of LPZ-2 was verified during 5/28/12 survey event. See survey point #1529 in Cass Final Check Topo. Measured Depth was verified on January 11, 2021.
4. LPZ-0 casing modified to allow for head level measurements commencing with November 2015 readings. Prior depth was 38 feet. New depth is 9.0 feet.
5. Due to a change in landfill staff in June 2015, levels were inadvertently not taken for June - September 2015.
6. Measured depth from 6/24/09 used for determining column thickness if constructed depth unavailable or no longer applicable.
7. Measurements were inadvertantly missed during October 2019.
8. Equipment sensitivity likely led to erroneous data in 2020.

Table 13 – Gas Monitoring Summary

Table 13
Explosive Gas Testing
2024 Annual Water Quality Report
Cass County Sanitary Landfill
Permit No. 15-SDP-01-75C

March 7, 2024

Reference* Location	Screen Exposed	Combustible % LEL
Breathing Zone		
#1 NE Corner		0
#2 NW Corner		0
#3 SW Corner		0
#4 SE Corner		0
#5 Bldg NE of Baler Bldg		0
#6 Beneath Scale		0
#7 North Maint. Shed		0
#8 Office		0
#9 Baler		0
#10 RCC Receiving		0
Subsurface		
#11 MW-10	Y	0
#12 MW-12	Y	0
#13 MW-15R	Y	0
#14 MW-31	N	0
#15 LFGW-W1	Y	0
#16 MW-35	Y	0
#17 MW-39	Y	0
#18 GUCO-1		0
#19 GUCO-2		0

June 12, 2024

Reference* Location	Screen Exposed	Combustible % LEL
Breathing Zone		
#1 NE Corner		0
#2 NW Corner		0
#3 SW Corner		0
#4 SE Corner		0
#5 Bldg NE of Baler Bldg		0
#6 Beneath Scale		0
#7 North Maint. Shed		0
#8 Office		0
#9 Baler		0
#10 RCC Receiving		0
Subsurface		
#11 MW-10	Y	0
#12 MW-12	Y	0
#13 MW-15R	Y	0
#14 MW-31	N	0
#15 LFGW-W1	Y	0
#16 MW-35	N	0
#17 MW-39	Y	0
#18 GUCO-1		0
#19 GUCO-2		0

August 19, 2024

Reference* Location	Screen Exposed	Combustible % LEL
Breathing Zone		
#1 NE Corner		0
#2 NW Corner		0
#3 SW Corner		0
#4 SE Corner		0
#5 Bldg NE of Baler Bldg		0
#6 Beneath Scale		0
#7 North Maint. Shed		0
#8 Office		0
#9 Baler		0
#10 RCC Receiving		0
Subsurface		
#11 MW-10	Y	0
#12 MW-12	Y	0
#13 MW-15R	Y	0
#14 MW-31	N	0
#15 LFGW-W1	Y	0
#16 MW-35	Y	0
#17 MW-39	Y	0
#18 GUCO-1		0
#19 GUCO-2		0

November 26, 2024

Reference* Location	Screen Exposed	Combustible % LEL
Breathing Zone		
#1 NE Corner		0
#2 NW Corner		0
#3 SW Corner		0
#4 SE Corner		0
#5 Bldg NE of Baler Bldg		0
#6 Beneath Scale		0
#7 North Maint. Shed		0
#8 Office		0
#9 Baler		0
#10 RCC Receiving		0
Subsurface		
#11 MW-10	Y	0
#12 MW-12	Y	0
#13 MW-15R	Y	0
#14 MW-31	N	0
#15 LFGW-W1	Y	0
#16 MW-35	N	0
#17 MW-39	Y	0
#18 GUCO-1		0
#19 GUCO-2		0

Appendix A

Historic Hydraulic Conductivity Testing Results

TABLE 3
SUMMARY OF SLUG TEST RESULTS
CASS COUNTY SANITARY LANDFILL
ATLANTIC, IOWA
PERMIT NO. 15-SDP-01-75P
PROJECT NO. CASSC 05004

Monitoring Well Installation Status	Monitoring Well	Date Water Level	Top of Casing ft. (1)	Constructed Depth (2) ft.	Screen Elevations		Depth to Water(3) ft.	July 7, 2005 Water Elevation ft.	August 12, 2005 Hydraulic Conductivity (4) cm/sec	Aquifer
					Top ft.	Bottom ft.				
Newly Installed	**MW-27**	7/7/2005	103.79	34.9	83.84	68.8	14.67	89.12	7.34E-07	shallow
	MW-28	7/7/2005	103.58	71.2	52.4	32.4	dry	NA	NM	deep, till
	MW-29	7/7/2005	118.12	38.3	95.9	80.9	dry	NA	NM	shallow
	MW-30	7/7/2005	121.84	35.6	101.3	86.3	30.35	91.49	6.67E-05	shallow
	MW-31	7/7/2005	92.95	40.1	67.8	52.8	dry	NA	NM	deep, till
	MW-32	7/7/2005	93.07	60.2	42.9	32.9	57.35	35.72	NM	deep, sandstone
	MW-33	7/7/2005	115.50	31.9	98.6	83.6	12.94	102.56	NM	shallow
	MW-34	7/7/2005	126.51	39.3	102.2	87.2	23.09	103.42	2.64E-07	shallow
	MW-35	7/7/2005	118.24	32.3	100.9	85.9	25.79	92.45	1.37E-04	shallow

Monitoring Well Installation Status	Monitoring Well	Date of Slug Test	Top of Casing ft. (1)	Constructed Depth (2) ft.	Screen Elevations		Depth to Water(3) ft.	July 7, 2005 Water Elevation ft.	Hydraulic Conductivity cm/sec	Shallow or deep aquifer
					Top ft.	Bottom ft.				
Pre-Lateral Expansion (Existing)	MW-6	12/2/1989	137.05	88.9	58.19	48.19	68.67	68.38	1.15E-07	deep, till
	MW-7	>2003	140.03	43.1	106.97	96.97	26.38	113.65	**1.15E-07**	shallow
	MW-9	7/11/2003	49.60	66.9	-7.27	-17.27	20.73	28.87	1.38E-02	deep, sandstone
	MW-10	6/30/1989	50.63	26.7	33.93	23.93	21.09	29.54	1.32E-06	shallow
	MW-11	7/11/2003	44.64	46.0	3.63	-6.37	15.75	28.89	1.14E-03	deep, sandstone
	MW-12	7/11/2003	44.44	19.9	34.59	24.59	17.28	27.16	**5.70E-04**	shallow
	MW-13	7/11/2003	44.43	90.1	-35.63	-45.63	12.70	31.73	1.99E-02	deep, sandstone
	MW-14	>2003	105.31	31.4	83.88	73.88	-	NA	**3.00E-06**	shallow
	MW-15		144.96	31.7	123.27	113.27	24.31	120.65	-	shallow
	MW-16	>2003	140.16	75.7	74.42	59.42	66.46	73.70	8.00E-06	deep, till
	MW-17	7/24/2003	139.99	28.7	121.31	111.31	26.43	113.56	**6.19E-04**	shallow
	MW-18		107.44	35.0	82.48	72.48	9.82	97.62	-	shallow
	MW-19	7/11/2003	48.60	41.7	11.95	6.95	18.98	29.62	6.31E-06	deep, sandstone
	MW-20	7/24/2003	48.51	26.7	31.79	21.79	13.82	34.69	**3.92E-04**	shallow
	MW-21		69.48	26.6	52.84	42.84	7.37	62.11	-	deep, till
	MW-22	7/24/2003	93.30	118.8	-15.50	-25.50	60.42	32.88	1.88E-02	deep, sandstone
	MW-23	7/11/2003	69.01	62.2	16.80	6.80	39.48	29.53	1.60E-03	shallow
	MW-24	4/14/2005	44.60	32.0	22.60	12.60	15.04	29.56	3.31E-05	shallow
	MW-25	4/14/2005	44.33	52.2	12.20	-7.80	15.21	29.12	2.24E-03	deep
	MW-26	4/14/2005	49.30	29.2	30.10	20.10	19.57	29.73	1.40E-03	shallow

(1) All elevations measured relative to site datum = 1,200 mean sea level.

(2) Constructed well depth measured from TOC, as reported on the well logs.

(3) Date of measurement July 7, 2005.

(4) August 12, 2005 slug testing.

(5) NM - not measured due to dry wells in lateral expansion area.

Bolded wells are shallow, screened in the oxidized till layer, and near lateral expansion area.

Appendix B

Field Sampling Forms

Cass County Sanitary Landfill
PERMIT # 15-SDP-01-75C

10/14/2024 Sampled by: Glenn Hunter Weather conditions: Sunny, calm, 34-56 degrees

IDNR Form 542-1322

Primary Sampling Method: No-Purge for Appendix I
Monitoring Well: MW 15R (background) **Secondary Sampling Method:** Purge & Sample for all analytes beyond Appendix I

GENERAL INFORMATION

TOC	145.46
Well Depth	37.10
Capped	YES
Standing Water	NO
Litter	NO
Level Tape	Solinst 101
NTU Meter	Hach 2100P
No-Purge Equipment -	Solinst 429
Purge Equipment -	Waterra

NO PURGE METHOD

TOC	145.46
Well Depth	37.10
Top Screen	118.89
Bottom Screen	108.89
Bottom Well	108.39
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	31.00
Top sample	114.46
Bottom sample	110.46
Turbidity(NTU)	14.00

Date	Time	Water Level	Water Elevation	Notes
10/14/2024	9:28	26.46	119	

ANALYTES, CONTAINERS, AND VOLUMES

Analyte		Required Volume (mL)	Volume Collected No-Purge (mL)	Volume Collected Purge & Sample (mL)	Turbidity this Container (NTU)
All	Field NTU	10	10		14.00
Appendix I	Metals	150	150		14.00
Appendix I	VOC	240	240		14.00
Full Appendix II	10 more containers	5620			
TSS	TSS	1000			
Supplemental					
Supplemental					
Total			400	0	

PURGE & SAMPLE METHOD - Purge by Waterra Inertial Lift Pump, then well rest, then sample collection

		2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
TOC	145.46								
Well Depth	37.10	Before purging	10/14/2024	9:28	26.46	119.00		0.0	
		After purging				145.46			
		Top of Screen after construction				118.89			
						0.11	feet above (+) or below (-) top screen		
		Bottom of Well after construction				108.36			
		Bottom of Well	10/14/2024		37.10	108.36			
						0.00	feet sedimentation		
		Before Sampling				145.46			
		Recovery				145.46			
		Recovery				145.46			
		Recovery				145.46			
		Recovery				145.46			

IDNR Form 542-1322

Monitoring Well: MW 11

Primary Sampling Method: No-Purge for Appendix I

Secondary Sampling Method: Purge & Sample for all analytes beyond Appendix I

GENERAL INFORMATION

TOC	44.64
Well Depth	46.00
Capped	YES
Standing Water	NO
Litter	NO
Level Tape	Solinst 101
NTU Meter	Hach 2100P
No-Purge Equipment -	Solinst 429
Purge Equipment -	Waterra

NO PURGE METHOD

TOC	44.64
Well Depth	46.00
Top Screen	9.09
Bottom Screen	-0.91
Bottom Well	-1.36
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	40.00
Top sample	4.64
Bottom sample	0.64
Turbidity(NTU)	3.70

Date	Time	Water Level	Water Elevation	Notes
10/14/2024	9:55	20.04	24.6	

ANALYTES, CONTAINERS, AND VOLUMES

Analyte		Required Volume (mL)	Volume Collected No-Purge (mL)	Volume Collected Purge & Sample (mL)	Turbidity this Container (NTU)
All	Field NTU	10	10		3.70
Appendix I	Metals	150	150		3.70
Appendix I	VOC	240	240		3.70
Full Appendix II	10 more containers	5620			
TSS	TSS	1000			
Supplemental					
Supplemental					
Total			400	0	

PURGE & SAMPLE METHOD - Purge by Waterra Inertial Lift Pump, then well rest, then sample collection

TOC	44.64
Well Depth	46.00

2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Before purging	10/14/2024	9:55	20.04	24.60		0.0	
After purging				44.64			
Top of Screen after construction				9.09			
				15.51	feet above (+) or below (-) top screen		
Bottom of Well after construction				-1.36			
Bottom of Well	10/14/2024		46.00	-1.36			
				0.00	feet sedimentation		
Before Sampling				44.64			
Recovery				44.64			
Recovery				44.64			
Recovery				44.64			
Recovery				44.64			

IDNR Form 542-1322

Monitoring Well: MW-12

Primary Sampling Method: No-Purge for Appendix I
Secondary Sampling Method: Purge & Sample for all analytes beyond Appendix I

GENERAL INFORMATION

TOC	44.44
Well Depth	19.90
Capped	YES
Standing Water	NO
Litter	NO
Level Tape	Solinst 101
NTU Meter	Hach 2100P
No-Purge Equipment -	Solinst 429
Purge Equipment -	Waterra

NO PURGE METHOD

TOC	44.44
Well Depth	19.90
Top Screen	34.59
Bottom Screen	24.59
Bottom Well	24.54
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	
Top sample	44.44
Bottom sample	40.44
Turbidity(NTU)	

Date	Time	Water Level	Water Elevation	Notes
10/14/2024		19.9	24.54	dry

ANALYTES, CONTAINERS, AND VOLUMES

Analyte		Required Volume (mL)	Volume Collected No-Purge (mL)	Volume Collected Purge & Sample (mL)	Turbidity this Container (NTU)
All	Field NTU	10	10		0.00
Appendix I	Metals	150	150		0.00
Appendix I	VOC	240	240		0.00
Full Appendix II	10 more containers	5620			
TSS	TSS	1000			
Supplemental					
Supplemental					
Total			400	0	

PURGE & SAMPLE METHOD - Purge by Waterra Inertial Lift Pump, then well rest, then sample collection

TOC	44.44
Well Depth	19.90

2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Before purging	10/14/2024	0:00	19.90	24.54		#DIV/0!	
After purging				44.44			
Top of Screen after construction				34.59			
				-10.05	feet above (+) or below (-) top screen		
Bottom of Well after construction				24.54			
Bottom of Well	10/14/2024		19.90	24.54			
				0.00	feet sedimentation		
Before Sampling				44.44			
Recovery				44.44			
Recovery				44.44			
Recovery				44.44			
Recovery				44.44			

IDNR Form 542-1322

Monitoring Well: MW-13

Primary Sampling Method: No-Purge for Appendix I
Secondary Sampling Method: Purge & Sample for all analytes beyond Appendix I

GENERAL INFORMATION

TOC	44.43
Well Depth	90.95
Capped	YES
Standing Water	NO
Litter	NO
Level Tape	Solinst 101
NTU Meter	Hach 2100P
No-Purge Equipment -	Solinst 429
Purge Equipment -	Waterra

NO PURGE METHOD

TOC	44.43
Well Depth	90.95
Top Screen	-35.63
Bottom Screen	-45.63
Bottom Well	-46.52
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	83.00
Top sample	-38.57
Bottom sample	-42.57
Turbidity(NTU)	2.01

Date	Time	Water Level	Water Elevation	Notes
10/14/2024	10:17	16.45	27.98	

ANALYTES, CONTAINERS, AND VOLUMES

Analyte		Required Volume (mL)	Volume Collected No-Purge (mL)	Volume Collected Purge & Sample (mL)	Turbidity this Container (NTU)
All	Field NTU	10	10		2.01
Appendix I	Metals	150	150		2.01
Appendix I	VOC	240	240		2.01
Full Appendix II	10 more containers	5620			
TSS	TSS	1000			
Supplemental					
Supplemental					
Total			400	0	

PURGE & SAMPLE METHOD - Purge by Waterra Inertial Lift Pump, then well rest, then sample collection

TOC	44.43
Well Depth	90.95

2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Before purging	10/14/2024	10:17	16.45	27.98		0.0	
After purging				44.43			
Top of Screen after construction				-35.63			
				63.61	feet above (+) or below (-) top screen		
Bottom of Well after construction				-46.52			
Bottom of Well	10/14/2024		90.95	-46.52			
				0.00	feet sedimentation		
Before Sampling				44.43			
Recovery				44.43			
Recovery				44.43			
Recovery				44.43			
Recovery				44.43			

IDNR Form 542-1322

Monitoring Well: MW-38R

Primary Sampling Method: No-Purge for Appendix I
Secondary Sampling Method: Purge & Sample for all analytes beyond Appendix I

GENERAL INFORMATION

TOC	74.19
Well Depth	50.60
Capped	YES
Standing Water	NO
Litter	NO
Level Tape	Solinst 101
NTU Meter	Hach 2100P
No-Purge Equipment -	Solinst 429
Purge Equipment -	Waterra

NO PURGE METHOD

TOC	74.19
Well Depth	50.60
Top Screen	34.60
Bottom Screen	24.60
Bottom Well	23.59
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	46.00
Top sample	28.19
Bottom sample	24.19
Turbidity(NTU)	398.00

Date	Time	Water Level	Water Elevation	Notes
10/14/2024	10:52	47.9	26.29	

ANALYTES, CONTAINERS, AND VOLUMES

Analyte		Required Volume (mL)	Volume Collected No-Purge (mL)	Volume Collected Purge & Sample (mL)	Turbidity this Container (NTU)
All	Field NTU	10	10		398.00
Appendix I	Metals	150	150		398.00
Appendix I	VOC	240	240		398.00
Full Appendix II	10 more containers	5620			
TSS	TSS	1000			
Supplemental					
Supplemental					
Total			400	0	

PURGE & SAMPLE METHOD - Purge by Waterra Inertial Lift Pump, then well rest, then sample collection

TOC	74.19
Well Depth	50.60

2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Before purging	10/14/2024	10:52	47.9	26.29		0.0	
After purging				74.19			
Top of Screen after construction				34.60			
				-8.31	feet above (+) or below (-) top screen		
Bottom of Well after construction				23.59			
Bottom of Well	10/14/2024		50.60	23.59			
				0.00	feet sedimentation		
Before Sampling				74.19			
Recovery				74.19			
Recovery				74.19			
Recovery				74.19			
Recovery				74.19			

IDNR Form 542-1322

Monitoring Well: MW-22

Primary Sampling Method: No-Purge for Appendix I
Secondary Sampling Method: Purge & Sample for all analytes beyond Appendix I

GENERAL INFORMATION

TOC	93.3
Well Depth	118.80
Capped	YES
Standing Water	NO
Litter	NO
Level Tape	Solinst 101
NTU Meter	Hach 2100P
No-Purge Equipment -	Solinst 429
Purge Equipment -	Waterra

NO PURGE METHOD

TOC	93.3
Well Depth	118.80
Top Screen	-15.50
Bottom Screen	-25.50
Bottom Well	-25.50
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	112.00
Top sample	-18.70
Bottom sample	-22.70
Turbidity(NTU)	5.35

Date	Time	Water Level	Water Elevation	Notes
10/14/2024	9:00	63.6	29.7	

ANALYTES, CONTAINERS, AND VOLUMES

Analyte		Required Volume (mL)	Volume Collected No-Purge (mL)	Volume Collected Purge & Sample (mL)	Turbidity this Container (NTU)
All	Field NTU	10	10		5.35
Appendix I	Metals	150	150		5.35
Appendix I	VOC	240	240		5.35
Full Appendix II	10 more containers	5620			
TSS	TSS	1000			
Supplemental					
Supplemental					
Total			400	0	

PURGE & SAMPLE METHOD - Purge by Waterra Inertial Lift Pump, then well rest, then sample collection

TOC	93.3
Well Depth	118.80

2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Before purging	10/14/2024	9:00	63.6	29.70		0.0	
After purging				93.30			
Top of Screen after construction				-15.50			
				45.20	feet above (+) or below (-) top screen		
Bottom of Well after construction				-25.50			
Bottom of Well			118.80	-25.50			
				0.00	feet sedimentation		
Before Sampling				93.30			
Recovery				93.30			
Recovery				93.30			
Recovery				93.30			
Recovery				93.30			

IDNR Form 542-1322

Monitoring Well: MW-21

Primary Sampling Method: No-Purge for Appendix I
Secondary Sampling Method: Purge & Sample for all analytes beyond Appendix I

GENERAL INFORMATION

TOC	72.98
Well Depth	30.20
Capped	YES
Standing Water	NO
Litter	NO
Level Tape	Solinst 101
NTU Meter	Hach 2100P
No-Purge Equipment -	Solinst 429
Purge Equipment -	Waterra

NO PURGE METHOD

TOC	72.98
Well Depth	30.20
Top Screen	52.80
Bottom Screen	42.80
Bottom Well	42.78
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	24.00
Top sample	48.98
Bottom sample	44.98
Turbidity(NTU)	8.10

Date	Time	Water Level	Water Elevation	Notes
10/14/2024	11:43	14.05	58.93	

ANALYTES, CONTAINERS, AND VOLUMES

Analyte		Required Volume (mL)	Volume Collected No-Purge (mL)	Volume Collected Purge & Sample (mL)	Turbidity this Container (NTU)
All	Field NTU	10	10		8.10
Appendix I	Metals	150	150		8.10
Appendix I	VOC	240	240		8.10
Full Appendix II	10 more containers	5620			
TSS	TSS	1000			
Supplemental					
Supplemental					
Total			400	0	

PURGE & SAMPLE METHOD - Purge by Waterra Inertial Lift Pump, then well rest, then sample collection

TOC	72.98
Well Depth	30.20

2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Before purging	10/14/2024	11:43	14.05	58.93		0.0	
After purging				72.98			
Top of Screen after construction				52.80			
				6.13	feet above (+) or below (-) top screen		
Bottom of Well after construction				42.78			
Bottom of Well	10/14/2024		30.10	42.88			
				0.10	feet sedimentation		
Before Sampling				72.98			
Recovery				72.98			
Recovery				72.98			
Recovery				72.98			
Recovery				72.98			

IDNR Form 542-1322

Monitoring Well: MW-23

Primary Sampling Method: No-Purge for Appendix I
Secondary Sampling Method: Purge & Sample for all analytes beyond Appendix I

GENERAL INFORMATION

TOC	69.01
Well Depth	62.21
Capped	YES
Standing Water	NO
Litter	NO
Level Tape	Solinst 101
NTU Meter	Hach 2100P
No-Purge Equipment -	Solinst 429
Purge Equipment -	Waterra

NO PURGE METHOD

TOC	69.01
Well Depth	62.21
Top Screen	16.80
Bottom Screen	6.80
Bottom Well	6.80
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	56.00
Top sample	13.01
Bottom sample	9.01
Turbidity(NTU)	2.86

Date	Time	Water Level	Water Elevation	Notes
10/14/2024	11:56	41.86	27.15	

ANALYTES, CONTAINERS, AND VOLUMES

Analyte		Required Volume (mL)	Volume Collected No-Purge (mL)	Volume Collected Purge & Sample (mL)	Turbidity this Container (NTU)
All	Field NTU	10	10		2.86
Appendix I	Metals	150	150		2.86
Appendix I	VOC	240	240		2.86
Full Appendix II	10 more containers	5620			
TSS	TSS	1000			
Supplemental					
Supplemental					
Total			400	0	

PURGE & SAMPLE METHOD - Purge by Waterra Inertial Lift Pump, then well rest, then sample collection

TOC	69.01
Well Depth	62.21

2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Before purging	10/14/2024	11:56	41.86	27.15		0.0	
After purging				69.01			
Top of Screen after construction				16.80			
				52.21	feet above (+) or below (-) top screen		
Bottom of Well after construction				6.80			
Bottom of Well	10/14/2024		62.20	6.81			
				0.01	feet sedimentation		
Before Sampling				69.01	App I		
Recovery				69.01	App II		
Recovery				69.01			
Recovery				69.01			
Recovery				69.01			

IDNR Form 542-1322

Monitoring Well: MW-37R

Primary Sampling Method: No-Purge for Appendix I
Secondary Sampling Method: Purge & Sample for all analytes beyond Appendix I

GENERAL INFORMATION

TOC	62.91
Well Depth	43.60
Capped	YES
Standing Water	NO
Litter	NO
Level Tape	Solinst 101
NTU Meter	Hach 2100P
No-Purge Equipment -	Solinst 429
Purge Equipment -	Waterra

NO PURGE METHOD

TOC	62.91
Well Depth	43.60
Top Screen	30.50
Bottom Screen	20.50
Bottom Well	19.31
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	37.00
Top sample	25.91
Bottom sample	21.91
Turbidity(NTU)	2.37

Date	Time	Water Level	Water Elevation	Notes
10/14/2024	11:15	35.14	27.77	

ANALYTES, CONTAINERS, AND VOLUMES

Analyte		Required Volume (mL)	Volume Collected No-Purge (mL)	Volume Collected Purge & Sample (mL)	Turbidity this Container (NTU)
All	Field NTU	10	10		2.37
Appendix I	Metals	150	150		2.37
Appendix I	VOC	240	240		2.37
Full Appendix II	10 more containers	5620			
TSS	TSS	1000			
Supplemental					
Supplemental					
Total			400	0	

PURGE & SAMPLE METHOD - Purge by Waterra Inertial Lift Pump, then well rest, then sample collection

TOC	62.91
Well Depth	43.60

2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Before purging	10/14/2024	11:15	35.14	27.77		0.0	
After purging				62.91			
Top of Screen after construction				30.50			
				32.41	feet above (+) or below (-) top screen		
Bottom of Well after construction				19.31			
Bottom of Well	10/14/2024		43.60	19.31			
				0.00	feet sedimentation		
Before Sampling				62.91			
Recovery				62.91			
Recovery				62.91			
Recovery				62.91			
Recovery				62.91			

IDNR Form 542-1322

Monitoring Well: MW-19

Primary Sampling Method: No-Purge for Appendix I
Secondary Sampling Method: Purge & Sample for all analytes beyond Appendix I

GENERAL INFORMATION

TOC	48.6
Well Depth	41.70
Capped	YES
Standing Water	NO
Litter	NO
Level Tape	Solinst 101
NTU Meter	Hach 2100P
No-Purge Equipment -	Solinst 429
Purge Equipment -	Waterra

NO PURGE METHOD

TOC	48.6
Well Depth	41.70
Top Screen	11.90
Bottom Screen	6.90
Bottom Well	6.90
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	35.00
Top sample	13.60
Bottom sample	9.60
Turbidity(NTU)	1.72

Date	Time	Water Level	Water Elevation	Notes
10/14/2024	12:18	21.41	27.19	

ANALYTES, CONTAINERS, AND VOLUMES

Analyte		Required Volume (mL)	Volume Collected No-Purge (mL)	Volume Collected Purge & Sample (mL)	Turbidity this Container (NTU)
All	Field NTU	10	10		1.72
Appendix I	Metals	150	150		1.72
Appendix I	VOC	240	240		1.72
Full Appendix II	10 more containers	5620			
TSS	TSS	1000			
Supplemental					
Supplemental					
Total			400	0	

PURGE & SAMPLE METHOD - Purge by Waterra Inertial Lift Pump, then well rest, then sample collection

TOC	48.6
Well Depth	41.70

2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Before purging	10/14/2024	12:18	21.41	27.19		0.0	
After purging				48.60			
Top of Screen after construction				11.90			
				15.29	feet above (+) or below (-) top screen		
Bottom of Well after construction				6.90			
Bottom of Well	10/14/2024		41.70	6.90			
				0.00	feet sedimentation		
Before Sampling				48.60			
Recovery				48.60			
Recovery				48.60			
Recovery				48.60			
Recovery				48.60			

IDNR Form 542-1322

Monitoring Well: MW-20

Primary Sampling Method: No-Purge for Appendix I

Secondary Sampling Method: Purge & Sample for all analytes beyond Appendix I

GENERAL INFORMATION

TOC	48.51
Well Depth	26.70
Capped	YES
Standing Water	NO
Litter	NO
Level Tape	Solinst 101
NTU Meter	Hach 2100P
No-Purge Equipment -	Solinst 429
Purge Equipment -	Waterra

NO PURGE METHOD

TOC	48.51
Well Depth	26.70
Top Screen	31.81
Bottom Screen	21.81
Bottom Well	21.81
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	20.00
Top sample	28.51
Bottom sample	24.51
Turbidity(NTU)	6.56

Date	Time	Water Level	Water Elevation	Notes
10/14/2024	12:35	16.5	32.01	

ANALYTES, CONTAINERS, AND VOLUMES

Analyte		Required Volume (mL)	Volume Collected No-Purge (mL)	Volume Collected Purge & Sample (mL)	Turbidity this Container (NTU)
All	Field NTU	10	10		6.56
Appendix I	Metals	150	150		6.56
Appendix I	VOC	240	240		6.56
Full Appendix II	10 more containers	5620			
TSS	TSS	1000			
Supplemental					
Supplemental					
Total			400	0	

PURGE & SAMPLE METHOD - Purge by Waterra Inertial Lift Pump, then well rest, then sample collection

TOC	48.51
Well Depth	26.70

2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Before purging	10/14/2024	12:35	16.50	32.01		0.0	
After purging				48.51			
Top of Screen after construction				31.81			
				0.20	feet above (+) or below (-) top screen		
Bottom of Well after construction				21.81			
Bottom of Well	10/14/2024		26.70	21.81			
				0.00	feet sedimentation		
Before Sampling				48.51			
Recovery				48.51			
Recovery				48.51			
Recovery				48.51			
Recovery				48.51			

IDNR Form 542-1322

Monitoring Well: MW-24

Primary Sampling Method: No-Purge for Appendix I
Secondary Sampling Method: Purge & Sample for all analytes beyond Appendix I

GENERAL INFORMATION

TOC	44.6
Well Depth	32.00
Capped	YES
Standing Water	NO
Litter	NO
Level Tape	Solinst 101
NTU Meter	Hach 2100P
No-Purge Equipment -	Solinst 429
Purge Equipment -	Waterra

NO PURGE METHOD

TOC	44.6
Well Depth	32.00
Top Screen	22.60
Bottom Screen	12.60
Bottom Well	12.60
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	26.00
Top sample	18.60
Bottom sample	14.60
Turbidity(NTU)	44.20

Date	Time	Water Level	Water Elevation	Notes
10/14/2024	12:58	17.99	26.61	

ANALYTES, CONTAINERS, AND VOLUMES

Analyte		Required Volume (mL)	Volume Collected No-Purge (mL)	Volume Collected Purge & Sample (mL)	Turbidity this Container (NTU)
All	Field NTU	10	10		44.20
Appendix I	Metals	150	150		44.20
Appendix I	VOC	240	240		44.20
Full Appendix II	10 more containers	5620			
TSS	TSS	1000			
Supplemental					
Supplemental					
Total			400	0	

PURGE & SAMPLE METHOD - Purge by Waterra Inertial Lift Pump, then well rest, then sample collection

TOC	44.6
Well Depth	32.00

2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Before purging	10/14/2024	12:58	17.99	26.61		0.0	
After purging				44.60			
Top of Screen after construction				22.60			
				4.01	feet above (+) or below (-) top screen		
Bottom of Well after construction				12.60			
Bottom of Well	10/14/2024		32.00	12.60			
				0.00	feet sedimentation		
Before Sampling				44.60			
Recovery				44.60			
Recovery				44.60			
Recovery				44.60			
Recovery				44.60			

IDNR Form 542-1322

Monitoring Well: MW-36

Primary Sampling Method: No-Purge for Appendix I
Secondary Sampling Method: Purge & Sample for all analytes beyond Appendix I

GENERAL INFORMATION

TOC	72.22
Well Depth	62.80
Capped	YES
Standing Water	NO
Litter	NO
Level Tape	Solinst 101
NTU Meter	Hach 2100P
No-Purge Equipment -	Solinst 429
Purge Equipment -	Waterra

NO PURGE METHOD

TOC	72.22
Well Depth	62.80
Top Screen	29.70
Bottom Screen	9.70
Bottom Well	9.42
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	56.00
Top sample	16.22
Bottom sample	12.22
Turbidity(NTU)	4.24

Date	Time	Water Level	Water Elevation	Notes
10/14/2024	13:24	44.36	27.86	

ANALYTES, CONTAINERS, AND VOLUMES

Analyte		Required Volume (mL)	Volume Collected No-Purge (mL)	Volume Collected Purge & Sample (mL)	Turbidity this Container (NTU)
All	Field NTU	10	10		4.24
Appendix I	Metals	150	150		4.24
Appendix I	VOC	240	240		4.24
Full Appendix II	10 more containers	5620			
TSS	TSS	1000			
Supplemental					
Supplemental					
Total			400	0	

PURGE & SAMPLE METHOD - Purge by Waterra Inertial Lift Pump, then well rest, then sample collection

TOC	72.22
Well Depth	62.80

2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Before purging	10/14/2024	13:24	44.36	27.86		0.0	
After purging				72.22			
Top of Screen after construction				29.70			
				-1.84	feet above (+) or below (-) top screen		
Bottom of Well after construction				9.42			
Bottom of Well	10/14/2024		62.80	9.42			
				0.00	feet sedimentation		
Before Sampling				72.22			
Recovery				72.22			
Recovery				72.22			
Recovery				72.22			
Recovery				72.22			

IDNR Form 542-1322

Monitoring Well: MW-43

Primary Sampling Method: No-Purge for Appendix I
Secondary Sampling Method: Purge & Sample for all analytes beyond Appendix I

GENERAL INFORMATION

TOC	41.54
Well Depth	23.64
Capped	YES
Standing Water	NO
Litter	NO
Level Tape	Solinst 101
NTU Meter	Hach 2100P
No-Purge Equipment -	Solinst 429
Purge Equipment -	Waterra

NO PURGE METHOD

TOC	41.54
Well Depth	23.64
Top Screen	27.90
Bottom Screen	17.90
Bottom Well	17.90
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	18.00
Top sample	23.54
Bottom sample	19.54
Turbidity(NTU)	4.37

Date	Time	Water Level	Water Elevation	Notes
10/14/2024	10:31	19.65	21.89	

ANALYTES, CONTAINERS, AND VOLUMES

Analyte		Required Volume (mL)	Volume Collected No-Purge (mL)	Volume Collected Purge & Sample (mL)	Turbidity this Container (NTU)
All	Field NTU	10	10		4.37
Appendix I	Metals	150	150		4.37
Appendix I	VOC	240	240		4.37
Full Appendix II	10 more containers	5620			
TSS	TSS	1000			
Supplemental					
Supplemental					
Total			400	0	

PURGE & SAMPLE METHOD - Purge by Waterra Inertial Lift Pump, then well rest, then sample collection

TOC	41.54
Well Depth	23.64

2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Before purging	10/14/2024	10:31	19.65	21.89		0.0	
After purging				41.54			
Top of Screen after construction				27.90			
				-6.01	feet above (+) or below (-) top screen		
Bottom of Well after construction				17.90			
Bottom of Well	10/14/2024		23.60	17.94			
				0.04	feet sedimentation		
Before Sampling				41.54			
Recovery				41.54			
Recovery				41.54			
Recovery				41.54			
Recovery				41.54			

IDNR Form 542-1322

Primary Sampling Method: No-Purge for Appendix I

Monitoring Well: MW-39 **Secondary Sampling Method:** Purge & Sample for all analytes beyond Appendix I

GENERAL INFORMATION

TOC	111.9
Well Depth	32.70
Capped	YES
Standing Water	NO
Litter	NO
Level Tape	Solinst 101
NTU Meter	Hach 2100P
No-Purge Equipment -	Solinst 429
Purge Equipment -	Waterra

NO PURGE METHOD

TOC	111.9
Well Depth	32.70
Top Screen	99.20
Bottom Screen	79.20
Bottom Well	79.20
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	26.00
Top sample	85.90
Bottom sample	81.90
Turbidity(NTU)	2.04

Date	Time	Water Level	Water Elevation	Notes
10/14/2024	13:36	14.67	97.23	

ANALYTES, CONTAINERS, AND VOLUMES

Analyte		Required Volume (mL)	Volume Collected No-Purge (mL)	Volume Collected Purge & Sample (mL)	Turbidity this Container (NTU)
All	Field NTU	10	10		2.04
Appendix I	Metals	150	150		2.04
Appendix I	VOC	240	240		2.04
Full Appendix II	10 more containers	5620			
TSS	TSS	1000			
Supplemental					
Supplemental					
Total			400	0	

PURGE & SAMPLE METHOD - Purge by Waterra Inertial Lift Pump, then well rest, then sample collection

TOC	111.9	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	32.70	Before purging	10/14/2024	13:36	14.67	97.23		0.0	
		After purging				111.90			
		Top of Screen after construction				99.20			
						-1.97	feet above (+) or below (-) top screen		
		Bottom of Well after construction				79.20			
		Bottom of Well	10/14/2024		32.70	79.20			
						0.00	feet sedimentation		
		Before Sampling				111.90			
		Recovery				111.90			
		Recovery				111.90			
		Recovery				111.90			
		Recovery				111.90			

Cass County Sanitary Landfill
PERMIT # 15-SDP-01-75C

10/14/2024 Sampled by: Glenn Hunter Weather conditions: Sunny, calm, 34-56 degrees

IDNR Form 542-1324

	Date	Time	Type	Flowing	Quantity		Discolored	Odor	Litter
UD-0	10/14/2024		Underdrain tile	no	dry			No	No
									Turbidity (NTU)

IDNR Form 542-1324

	Date	Time	Type	Flowing	Quantity		Discolored	Odor	Litter
UD-1	10/14/2024		Underdrain tile	no	dry		No	No	No
									Turbidity (NTU)

Appendix C

Statistical Report

Results of the Ground Water Statistics

for Cass County Sanitary Landfill

Second Semi-Annual Monitoring Events in 2024

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December 2024

INTRODUCTION

This report contains the results of the statistical analyses used to evaluate the ground water data obtained during the second semi-annual monitoring event in 2024 at the Cass County Landfill. The ground water monitoring wells were sampled on October 15, 2024 and analyzed for the parameters required by permit. The statistical plan was designed to detect a release from the facility at the earliest indication so that it is protective of human health and the environment. Both intrawell and interwell methodologies are described and then applied to the Cass County Landfill data. The statistical plan conforms with IAC 567, Chapter 113.10, USEPA Guidance document ("*Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities, Unified Guidance*", March 2009), and the American Society for Testing and Materials (ASTM) standard D6312-98, *Developing Appropriate Statistical Approaches for Ground-Water Detection Monitoring Programs*.

Ground Water Monitoring Program

The groundwater monitoring network for Cass County Landfill includes wells MW-15R (upgradient), MW-12, MW-19, MW-20, MW-21, MW-24, MW-37R, MW-38R, MW-39, MW-43, UD-0, and UD-1 in the water table and MW-22 (upgradient), MW-11, MW-23, MW-36, and MW-13 in the Dakota sandstone. Each of the groundwater monitoring wells is to be sampled at least semiannually and analyzed for the detection monitoring parameters listed below.

Detection monitoring constituents listed in Appendix I of IAC 567, Chapter 113.

Organic Compounds:

Acetone	*trans*-1,4-Dichloro-2-butene	Iodomethane
Acrylonitrile	1,1-Dichloroethane	4-Methyl-2-pentanone
Benzene	1,2-Dichloroethane	Styrene
Bromochloromethane	1,1-Dichloroethene	1,1,1,2-Tetrachloroethane
Bromodichloromethane	*cis*-1,2-Dichloroethene	1,1,2,2-Tetrachloroethane
Bromoform	*trans*-1,2-Dichloroethene	Tetrachloroethene
Carbon disulfide	1,2-Dichloropropane	Toluene
Carbon tetrachloride	*cis*-1,3-Dichloropropene	1,1,1-Trichloroethane
Chlorobenzene	*trans*-1,3-Dichloropropene	1,1,2-Trichloroethane
Chloroethane	Ethylbenzene	Trichloroethene
Chloroform	2-Hexanone	Trichlorofluoromethane
Dibromochloromethane	Bromomethane	1,2,3-Trichloropropane
1,2-Dibromo-3-chloropropane	Chloromethane	Vinyl acetate
1,2-Dibromoethane	Dibromomethane	Vinyl chloride
1,2-Dichlorobenzene	Methylene chloride	Xylenes (Total)
1,4-Dichlorobenzene	2-Butanone	

Inorganic constituents:

Antimony, Total	Chromium, Total	Selenium, Total
Arsenic, Total	Cobalt, Total	Silver, Total
Barium, Total	Copper, Total	Thallium, Total
Beryllium, Total	Lead, Total	Vanadium, Total
Cadmium, Total	Nickel, Total	Zinc, Total

The ground water data obtained during the second semi-annual monitoring events in 2024 are summarized in Attachment A.

STATISTICAL METHODOLOGIES FOR DETECTION MONITORING

IAC 567, Chapter 113.10(4) provides several options for statistically evaluating the ground water data at those wells that monitor the open cells or contiguous MSWLF units. The preferred methods for comparing ground water data are using either prediction limits or using control charts. Both of these methods were applied to the Cass County Landfill data using the DUMPStat® statistical program. DUMPStat® is a program for the statistical analysis of groundwater monitoring data using methods described in "Statistical Methods for Groundwater Monitoring" by Dr. Robert D. Gibbons. The DUMPStat program is consistent with all USEPA regulations and guidance and the ASTM D6312-98 guidance. Ground water statistics are to be done on the constituents listed.

Interwell Statistics: Upgradient versus Downgradient Comparisons

Interwell statistics are appropriate when the upgradient and downgradient wells monitor the same ground water formation and there is similar variability in the upgradient and downgradient zones. Site prediction limits are determined by pooling the historical ground water data from hydraulically upgradient wells. This statistical method compares the current downgradient determinations to site prediction limits and checks for exceedances. The type of prediction limit utilized (e.g., parametric or nonparametric) is based on the detection frequency and the data distribution of each parameter in the background data. The distribution of the background data is tested for normality using the Shapiro-Wilk test (Gibbons, 1994 and USEPA 1992). If the constituent is normally distributed, a normal prediction limit is used. If normality is rejected by the Shapiro-Wilk test, the background data is transformed by taking the natural logarithm. The Shapiro-Wilk test is then reapplied on the transformed data. If it is not rejected, lognormal prediction limits are used. If after transforming the data, normality is still rejected, nonparametric prediction limits are used for that analyte. The nonparametric prediction limit is the largest determination in the background measurements. For constituents where the background detection frequency is greater than 0% but less than 50%, nonparametric prediction limits will be used. If the detection frequency is 0% after thirteen samples have been collected, the practical quantitation limit (PQL) becomes the nonparametric prediction limit.

Results of the Interwell Statistics – Water Table

The background data used in this statistical analysis includes the ground water data collected from ground water well MW-15R during the period from 2010 through the current data. A summary of the background data from monitoring well MW-15R is listed in Attachment B, Table 1 "Upgradient Data". This statistical method compares the current downgradient determinations to site prediction limits and checks for exceedances.

Table 2 "Most Current Downgradient Monitoring Data", summarizes the current data from downgradient wells MW-19, MW-20, MW-21, MW-24, MW-37R, MW-38R, MW-39, and MW-43, compared to the site prediction limits. Prediction limit exceedances are flagged with asterisks. For the most current data, the site prediction limit exceedances detected are summarized in the table below.

Prediction Limit Exceedances during the Second Semi-Annual Monitoring Event in 2024

Well	Parameter	Result, µg/L	Prediction Limit, µg/L	Prediction Limit Type	Verified/ Awaiting verification
MW-19	Barium	966	386.3237	Normal	Verified
	Cobalt	19.5	4.2000	Nonparametric	Verified
	Nickel	55.7	6.3000	Nonparametric	Verified
MW-20	Arsenic	77.5	9.1300	Nonparametric	Verified
	Barium	2430	386.3237	Normal	Verified
	Cobalt	9.9	4.2000	Nonparametric	Verified
	Nickel	50.8	6.3000	Nonparametric	Verified
MW-21	Barium	1170	386.3237	Normal	Verified
	Cobalt	13.4	4.2000	Nonparametric	Verified
	Copper	7.4	5.0000	Nonparametric	Awaiting verification
	Nickel	27.2	6.3000	Nonparametric	Verified
MW-24	Arsenic	9.9	9.1300	Nonparametric	Awaiting verification
	Barium	700	386.3237	Normal	Verified
	Cobalt	4.3	4.2000	Nonparametric	Awaiting verification
	Nickel	32.7	6.3000	Nonparametric	Verified
MW-37R	Barium	715	386.3237	Normal	Verified
	Selenium	15.8	5.0000	Nonparametric	Verified
MW-38R	Arsenic	15.7	9.1300	Nonparametric	Awaiting verification
	Cadmium	1.9	1.2500	Nonparametric	Awaiting verification
	Chromium	218	5.0000	Nonparametric	Verified
	Cobalt	16.8	4.2000	Nonparametric	Awaiting verification
	Copper	23.9	5.0000	Nonparametric	Verified
	Lead	14.5	0.5180	Nonparametric	Awaiting verification
	Nickel	145	6.3000	Nonparametric	Verified
	Selenium	7.8	5.0000	Nonparametric	Verified
	Vanadium	59.3	5.0000	Nonparametric	Awaiting verification
MW-39	Selenium	63.6	5.0000	Nonparametric	Verified

The detection frequencies of the parameters in the up and down gradient monitoring wells are summarized in Table 3. Table 4 summarizes the results of the Shapiro-Wilk test. Table 5 is a summary of the statistics and prediction limits determined. Time series graphs of each of the parameters at each well with the corresponding prediction limits are attached.

A statistical power curve indicates the expected false assessments for the site as a whole. The false positive rate for interwell analyses is the percentage of failures when the upgradient versus downgradient true mean difference equals zero. False negative rate indicates the chance of missing contamination at a single well for a single constituent. The statistical power is a function of the number of wells included, the number of constituents compared, the detection frequencies, and the data distributions involved. For interwell analysis, the site-wide false positive rate is 4% and the test becomes sensitive to 4 standard deviation unit increases over background.

Results of the Interwell Statistics – Dakota

The background data used in this statistical analysis includes the ground water data collected from ground water well MW-22 during the period from 2008 through the current data. A summary of the background data from monitoring well MW-22 is listed in Attachment C, Table 1 "Upgradient Data". This statistical method compares the current downgradient determinations to site prediction limits and checks for exceedances.

Table 2 "Most Current Downgradient Monitoring Data", summarizes the current data from downgradient wells MW-11, MW-13, MW-23, and MW-36, compared to the site prediction limits. Prediction limit exceedances are flagged with asterisks. For the most current data, the site prediction limit exceedances detected are summarized in the table below.

Prediction Limit Exceedances during the Second Semi-Annual Monitoring Event in 2024

Well	Parameter	Result, µg/L	Prediction Limit, µg/L	Prediction Limit Type	Verified/ Awaiting verification
MW-11	Arsenic	6.6	1.3500	Nonparametric	Verified
	Barium	346	293.2723	Normal	Verified
	Cobalt	3.0	1.7300	Nonparametric	Verified

The detection frequencies of the parameters in the up and down gradient monitoring wells are summarized in Table 3. Table 4 summarizes the results of the Shapiro-Wilk test. Table 5 is a summary of the statistics and prediction limits determined. Time series graphs of each of the parameters at each well with the corresponding prediction limits are attached.

A statistical power curve indicates the expected false assessments for the site as a whole. The false positive rate for interwell analyses is the percentage of failures when the upgradient versus downgradient true mean difference equals zero. False negative rate indicates the chance of missing contamination at a single well for a single constituent. The statistical power is a function of the number of wells included, the number of constituents compared, the detection frequencies, and the data distributions involved. For interwell analysis, the site-wide false positive rate is 2% and the test becomes sensitive to 4 standard deviation unit increases over background.

Intrawell Statistics

Intrawell statistics are appropriate for facilities where the upgradient wells do not accurately characterize the natural ground water conditions downgradient from the facility. This may be due to different hydrogeological conditions where the wells are screened, having too few upgradient wells to account for the spatial variability, or the site exhibiting no definable hydraulic gradient. Intrawell statistics compare new measurements to the historical data at each ground water monitoring well independently. It is recommended that at least eight background samples be obtained prior to performing the statistics.

The most useful technique for intrawell comparisons is the combined Shewhart-CUSUM control chart. This control chart procedure is useful because it will detect releases both in terms of the constituent concentration and cumulative increases. This method is also extremely sensitive to sudden and gradual releases. A requirement for constructing these control charts is that the parameter is detected at a frequency greater than or equal to 25%, otherwise the data variance is not properly defined.

The combined Shewhart-CUSUM control chart assumes that the data are independent and normally distributed with a fixed mean and a constant variance. Independent data is much more critical than the normality assumption. To achieve independence, it is recommended that data are collected no more frequently than quarterly to account for seasonal variation. The combined Shewhart-CUSUM control chart is extremely robust to deviations from normality. Because the control charts do not use a specific multiplier based on a normal distribution, it is more conservative to assume normality.

It is recommended that at least eight rounds of data be available to provide a reliable estimate of the mean and standard deviation of the parameter concentration, although the control charts will be generated with as few as four data points. Having only four data points may produce greater uncertainty in the mean and standard deviation of the background data, leading to higher control limits, thus having a potentially high false negative rate.

Many groundwater monitoring parameters are not detected at a frequency great enough to generate the combined Shewhart-CUSUM control charts. For constituents that are detected less than 25% of the time at a particular well, the data should be plotted as a time series until a sufficient number of data points are available to provide a 99% confidence nonparametric prediction limit. Thirteen independent measurements (with 1 resample) are necessary to achieve a 99% confidence (1% false positive rate) nonparametric prediction limit. Eight independent measurements (for pass 1 of 2 resamples) are necessary to achieve a 99% confidence nonparametric prediction limit. The nonparametric prediction limit is the largest determination out of the data set collected for that well and parameter. If the detection frequency is 0% after thirteen samples have been collected, the practical quantitation limit (PQL) becomes the nonparametric prediction limit.

In developing the statistical background, the historical data must be thoroughly screened for anomalous data due to sampling error, analytical error, or simply by chance alone. An erroneous data point, if not removed prior to the mean and variance computations, would yield a larger control limit thus increasing the false negative rate. The DUMPStat® program screens for outliers using the Dixon test. Anomalous data will still be plotted on the graphs (with a unique symbol) but will not be included in the calculations.

The verification resample plan is an integral function of the statistical plan to reduce the probability that anomalous data obtained after the background has been established, is indicative of a release.

The background data for each well and constituent is tested for existing trends using Sen's nonparametric estimate of trend. If contamination exists prior to completing the background, the control limits could be potentially high and this control chart method would not be able to detect an increasing trend unless the increase is severe.

Results of the Intrawell Statistics

The detection monitoring constituents were evaluated using the combined Shewhart-CUSUM control chart method. The background used to determine control limits includes the data obtained from 2008 through 2023 for wells MW-11, MW-15R (upgradient), MW-19, MW-20, MW-21, MW-22 (upgradient), MW-23, MW-36, and MW-39. The background was extended through May 2024 for wells MW-37R and MW-38R. There are fewer than eight round of data at wells MW-24, MW-43, and MW-13.

A summary of the intrawell statistics is included in Attachment D, Table 1 “Summary Statistics and Intermediate Computations for Combined Shewhart-CUSUM Control Charts.” The control charts or time series graphs follow the summary table. For the most current data, the control limit exceedances detected are summarized in the table below.

Control Limit Exceedances at Cass County Landfill during the Second Semi-Annual Monitoring Event in 2024

Well	Parameter	Result	CUSUM Value	Control Limit	Prediction Limit Type	Verified/ Awaiting verification
MW-15R (upgradient)	Arsenic, µg/L	9.1	--	4.5000	Nonparametric	Verified
	Cobalt, µg/L	4.2	--	2.0000	Nonparametric	Verified
	Nickel, µg/L	6.3	--	5.0000	Nonparametric	Awaiting verification
MW-38R	Cadmium, µg/L	1.9	1.8136	0.9738	Normal	Awaiting verification
	Cobalt, µg/L	16.8	15.8356	9.6260	Normal	Awaiting verification
	Copper, µg/L	23.9	--	5.8800	Nonparametric	Awaiting verification
	Lead, µg/L	14.5	--	0.6840	Nonparametric	Awaiting verification
	Nickel, µg/L	145	142.8381	26.0791	Normal	Awaiting verification
	Vanadium, µg/L	59.3	--	1.5400	Nonparametric	Awaiting verification
	Zinc, µg/L	44.0	--	20.0000	Nonparametric	Awaiting verification

Increasing trends were detected in the background data for barium at MW-15R, barium at MW-19, barium at MW-21, and barium at MW-39.

A control chart factor was selected to provide a balance of the site-wide false positive and false negative rates. A statistical power curve indicates the expected false assessments for the site as a whole. The site-wide false positive rate is 7% and the test becomes sensitive to 4 standard deviation units over background.

Assessment Statistics

The trace metals which have exceeded ground water protection standards (GWPS) or verified statistical exceedances were evaluated against the GWPS using confidence limits (Attachment E). The 95% lower confidence limit (LCL) for the mean of the historical data was used to evaluate whether the regulated unit is in compliance with the GWPS under 40 CFR 264 (e.g. whether the verified constituent is detected at a significant level above the GWPS). An exceedance is verified if the LCL is above the Regulatory GWPS.

The 95% LCL for arsenic at MW-20 (68.386 µg/L) exceeded the GWPS of 10 µg/L.
The 95% LCL for cobalt at MW-11 (3.083 µg/L) exceeded the GWPS of 2.1 µg/L.
The 95% LCL for cobalt at MW-19 (20.153 µg/L) exceeded the GWPS of 2.1 µg/L.
The 95% LCL for cobalt at MW-20 (7.669 µg/L) exceeded the GWPS of 2.1 µg/L.
The 95% LCL for cobalt at MW-21 (3.145 µg/L) exceeded the GWPS of 2.1 µg/L.
The 95% LCL for cobalt at MW-24 (2.116 µg/L) exceeded the GWPS of 2.1 µg/L.
The 95% LCL for selenium at MW-39 (64.488 µg/L) exceeded the GWPS of 50 µg/L.
The calculated 95% LCL for the remainder of the trace metals did not exceed GWPS.

Volatile Organic Compounds

Volatile Organic Compounds (VOCs) are generally man-made compounds not present in ambient ground water. If VOCs are detected above their statistical limit (i.e., the laboratory PQL or reporting limit), a verification resample will be conducted at the next scheduled sampling event. A statistical exceedance will be indicated if the VOC detection is confirmed by the subsequent monitoring. VOCs detected in the ground water at Cass County Landfill during the second semi-annual monitoring event in 2024 are summarized below. Historical VOC detections are summarized in Attachment F.

Organic compounds detected during the second semi-annual monitoring event in 2024

Well	VOC Detected	Result, µg/L	Reporting Limit, µg/L	Verified/ Awaiting Verification	Groundwater Standard, µg/L
MW-19	Chlorobenzene	1.2	1	Verified	100
MW-20	1,4-Dichlorobenzene	3.1	1	Verified	75
	Benzene	3.0	1	Verified	5
	Chlorobenzene	4.7	1	Verified	100
	Endosulfan I	0.13	0.05	Awaiting verification	42

The VOCs detections did not exceed GWPS. The verified VOC detections were evaluated against the GWPS using confidence limits (Attachment G). The analysis was conducted to evaluate whether verified concentrations are significantly above the water quality standard. The calculated LCLs for historically detected VOCs are below the respective GWPS.

Attachment A

Ground Water Data

Table 1

Analytical Data Summary for 10/15/2024

Constituents	Units	MW-11	MW-13	MW-15R	MW-19	MW-20	MW-21	MW-22	MW-23	MW-24	MW-36	MW-37R	MW-38R	MW-39	MW-43
1,1,1,2-Tetrachloroethane	ug/L	<1		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	ug/L	<1		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	ug/L	<1		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	ug/L	<1		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	ug/L	<1		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethene	ug/L	<1		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,3-Trichloropropane	ug/L	<1		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dibromo-3-Chloropropane	ug/L	<5		<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
1,2-Dibromoethane	ug/L	<1		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichlorobenzene	ug/L	<1		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	ug/L	<1		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloropropane	ug/L	<1		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-Dichlorobenzene	ug/L	<1.0		<1.0	<1.0	3.1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2,4,5-T	ug/L					<.5									
2-Butanone	ug/L	<10		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
2-Hexanone	ug/L	<5		<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
4-Methyl-2-Pentanone	ug/L	<5		<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Acetone	ug/L	<10		<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Acrylonitrile	ug/L	<5		<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Antimony	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	21.6	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Arsenic	ug/L	6.6	<4.0	9.1	<4.0	77.5	6.7	<4.0	<4.0	9.9	<4.0	<4.0	15.7	<4.0	<4.0
Barium	ug/L	346.0	232.0	376.0	966.0	2430.0	1170.0	231.0	23.3	700.0	146.0	715.0	337.0	93.1	231.0
Benzene	ug/L	<1		<1	<1	3	<1	<1	<1	<1	<1	<1	<1	<1	<1
Beryllium	ug/L	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Bromochloromethane	ug/L	<1		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromodichloromethane	ug/L	<1		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromoform	ug/L	<1		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromomethane	ug/L	<1		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cadmium	ug/L	<.8	<.8	<.8	<.8	<.8	<.8	<.8	<.8	1.1	<.8	<.8	1.9	<.8	<.8
Carbon Disulfide	ug/L	<1		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon Tetrachloride	ug/L	<1		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzene	ug/L	<1.0		<1.0	1.2	4.7	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chlorodibromomethane	ug/L	<1		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroethane	ug/L	<1		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	ug/L	<1		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloromethane	ug/L	<1		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chromium	ug/L	<8	<8	<8	<8	<8	<8	<8	<8	<8	<8	<8	218	<8	<8
cis-1,2-Dichloroethene	ug/L	<1		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,3-Dichloropropene	ug/L	<1		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cobalt	ug/L	3.0	1.7	4.2	19.5	9.9	13.4	<.4	.4	4.3	.8	<.4	16.8	<.4	1.3
Copper	ug/L	9.7	<4.0	<4.0	<4.0	<4.0	7.4	<4.0	<4.0	4.6	<4.0	<4.0	23.9	<4.0	<4.0
Endosulfan I	ug/L				<.05	.13									
Ethylbenzene	ug/L	<1		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
gamma-Chlordane	ug/L				<.05	<.05									
Iodomethane	ug/L	<1		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Lead	ug/L	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	14.5	<4.0	<4.0
Methylene Bromide	ug/L	<1		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene Chloride	ug/L	<5		<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Nickel	ug/L	5.4	5.8	6.3	55.7	50.8	27.2	<4.0	<4.0	32.7	6.6	<4.0	145.0	<4.0	4.5
Selenium	ug/L	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	15.8	7.8	63.6	<4.0
Silver	ug/L	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Styrene	ug/L	<1		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Sulfate	mg/L				14.3	<1.0	18.1								
Tetrachloroethene	ug/L	<1		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1

* - The displayed value is the arithmetic mean of multiple database matches.

Table 1

Analytical Data Summary for 10/15/2024

Constituents	Units	MW-11	MW-13	MW-15R	MW-19	MW-20	MW-21	MW-22	MW-23	MW-24	MW-36	MW-37R	MW-38R	MW-39	MW-43
Thallium	ug/L	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Toluene	ug/L	<1		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethene	ug/L	<1		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,3-Dichloropropene	ug/L	<1		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,4-Dichloro-2-Butene	ug/L	<5		<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Trichloroethene	ug/L	<1		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	ug/L	<1		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vanadium	ug/L	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	59.3	<20.0	<20.0
Vinyl Acetate	ug/L	<5		<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Vinyl Chloride	ug/L	<1		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	ug/L	<2		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Zinc	ug/L	28.4	<20.0	<20.0	<20.0	<20.0	28.1	<20.0	<20.0	<20.0	<20.0	<20.0	44.0	<20.0	<20.0

* - The displayed value is the arithmetic mean of multiple database matches.

Attachment B

Summary Tables and Graphs for the Interwell Comparisons – Water Table

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Antimony	ug/L	MW-15R	03/11/2010	ND	6.0000	2.0000	**
Antimony	ug/L	MW-15R	05/27/2010	ND	6.0000	2.0000	**
Antimony	ug/L	MW-15R	08/31/2010	ND	6.0000	2.0000	**
Antimony	ug/L	MW-15R	11/04/2010	ND	6.0000	2.0000	**
Antimony	ug/L	MW-15R	02/16/2011	ND	6.0000	2.0000	**
Antimony	ug/L	MW-15R	10/27/2011	ND	6.0000	2.0000	**
Antimony	ug/L	MW-15R	04/26/2012	ND	6.0000	2.0000	**
Antimony	ug/L	MW-15R	10/09/2012	ND	6.0000	2.0000	**
Antimony	ug/L	MW-15R	02/20/2013	ND	6.0000	2.0000	**
Antimony	ug/L	MW-15R	10/03/2013	ND	1.0300	2.0000	**
Antimony	ug/L	MW-15R	04/22/2014	ND	6.0000	2.0000	**
Antimony	ug/L	MW-15R	10/14/2014	ND	6.0000	2.0000	**
Antimony	ug/L	MW-15R	05/12/2015	ND	1.0000	2.0000	**
Antimony	ug/L	MW-15R	07/29/2015	ND	1.0000	2.0000	**
Antimony	ug/L	MW-15R	02/15/2016	ND	1.0000	2.0000	**
Antimony	ug/L	MW-15R	10/31/2016	ND	1.0000	2.0000	**
Antimony	ug/L	MW-15R	03/27/2017	ND	1.0000	2.0000	**
Antimony	ug/L	MW-15R	11/13/2017	ND	0.2550	2.0000	**
Antimony	ug/L	MW-15R	06/06/2018	ND	3.0000	2.0000	**
Antimony	ug/L	MW-15R	11/27/2018	ND	1.0000	2.0000	**
Antimony	ug/L	MW-15R	03/18/2019	ND	1.0000	2.0000	**
Antimony	ug/L	MW-15R	12/02/2019	ND	1.0000	2.0000	**
Antimony	ug/L	MW-15R	03/30/2020	ND	1.0000	2.0000	**
Antimony	ug/L	MW-15R	11/17/2020	ND	1.0000	2.0000	**
Antimony	ug/L	MW-15R	05/06/2021	ND	2.0000		
Antimony	ug/L	MW-15R	10/07/2021	ND	2.0000		
Antimony	ug/L	MW-15R	04/06/2022	ND	2.0000		
Antimony	ug/L	MW-15R	08/23/2022	ND	2.0000		
Antimony	ug/L	MW-15R	03/08/2023	ND	2.0000		
Antimony	ug/L	MW-15R	09/13/2023	ND	1.6500	2.0000	**
Antimony	ug/L	MW-15R	05/29/2024	ND	2.0000		
Antimony	ug/L	MW-15R	10/15/2024	ND	2.0000		
Arsenic	ug/L	MW-15R	03/11/2010	ND	1.0000		
Arsenic	ug/L	MW-15R	05/27/2010	ND	1.0000		
Arsenic	ug/L	MW-15R	08/31/2010	ND	2.0000	1.0000	**
Arsenic	ug/L	MW-15R	11/04/2010	ND	1.0000		
Arsenic	ug/L	MW-15R	02/16/2011	ND	1.0000		
Arsenic	ug/L	MW-15R	10/27/2011	ND	1.0000		
Arsenic	ug/L	MW-15R	04/26/2012		4.5000		
Arsenic	ug/L	MW-15R	10/09/2012	ND	1.0000		
Arsenic	ug/L	MW-15R	02/20/2013	ND	1.0000		
Arsenic	ug/L	MW-15R	10/03/2013	ND	0.6440	1.0000	**
Arsenic	ug/L	MW-15R	04/22/2014	ND	1.0000		
Arsenic	ug/L	MW-15R	10/14/2014	ND	1.0000		
Arsenic	ug/L	MW-15R	05/12/2015	ND	1.4700	1.0000	**
Arsenic	ug/L	MW-15R	07/29/2015	ND	2.0000	1.0000	**
Arsenic	ug/L	MW-15R	02/15/2016	ND	1.3400	1.0000	**
Arsenic	ug/L	MW-15R	10/31/2016	ND	2.0000	1.0000	**
Arsenic	ug/L	MW-15R	03/27/2017	ND	0.5430	1.0000	**
Arsenic	ug/L	MW-15R	11/13/2017	ND	0.6080	1.0000	**
Arsenic	ug/L	MW-15R	06/06/2018		1.6700		
Arsenic	ug/L	MW-15R	11/27/2018	ND	1.1100	1.0000	**
Arsenic	ug/L	MW-15R	03/18/2019	ND	0.8590	1.0000	**
Arsenic	ug/L	MW-15R	12/02/2019	ND	2.0000	1.0000	**
Arsenic	ug/L	MW-15R	03/30/2020	ND	2.0000	1.0000	**
Arsenic	ug/L	MW-15R	11/17/2020	ND	2.0000	1.0000	**
Arsenic	ug/L	MW-15R	05/06/2021	ND	2.0000	1.0000	**
Arsenic	ug/L	MW-15R	10/07/2021		2.8400		
Arsenic	ug/L	MW-15R	04/06/2022	ND	0.8210	1.0000	**
Arsenic	ug/L	MW-15R	08/23/2022	ND	2.0000	1.0000	**
Arsenic	ug/L	MW-15R	03/08/2023	ND	2.0000	1.0000	**
Arsenic	ug/L	MW-15R	09/13/2023	ND	0.6400	1.0000	**
Arsenic	ug/L	MW-15R	05/29/2024		9.1300		
Arsenic	ug/L	MW-15R	10/15/2024		9.1000		
Barium	ug/L	MW-15R	03/11/2010		54.7000		
Barium	ug/L	MW-15R	05/27/2010		50.3000		
Barium	ug/L	MW-15R	08/31/2010		120.0000		
Barium	ug/L	MW-15R	11/04/2010		86.6000		
Barium	ug/L	MW-15R	02/16/2011		84.8000		
Barium	ug/L	MW-15R	10/27/2011		79.1000		
Barium	ug/L	MW-15R	04/26/2012		251.0000		
Barium	ug/L	MW-15R	10/09/2012		140.0000		
Barium	ug/L	MW-15R	02/20/2013		131.0000		
Barium	ug/L	MW-15R	10/03/2013		160.0000		

* - Outlier for that well and constituent.
** - ND value replaced with median RL.
*** - ND value replaced with manual RL.
ND = Not detected, Result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Barium	ug/L	MW-15R	04/22/2014		173.5000		
Barium	ug/L	MW-15R	10/14/2014		226.0000		
Barium	ug/L	MW-15R	05/12/2015		195.0000		
Barium	ug/L	MW-15R	07/29/2015		175.0000		
Barium	ug/L	MW-15R	02/15/2016		187.0000		
Barium	ug/L	MW-15R	10/31/2016		168.0000		
Barium	ug/L	MW-15R	03/27/2017		217.0000		
Barium	ug/L	MW-15R	11/13/2017		193.0000		
Barium	ug/L	MW-15R	06/06/2018		170.0000		
Barium	ug/L	MW-15R	11/27/2018		199.0000		
Barium	ug/L	MW-15R	03/18/2019		263.0000		
Barium	ug/L	MW-15R	12/02/2019		208.0000		
Barium	ug/L	MW-15R	03/30/2020		205.0000		
Barium	ug/L	MW-15R	11/17/2020		224.0000		
Barium	ug/L	MW-15R	05/06/2021		217.0000		
Barium	ug/L	MW-15R	10/07/2021		207.0000		
Barium	ug/L	MW-15R	04/06/2022		257.0000		
Barium	ug/L	MW-15R	08/23/2022		248.0000		
Barium	ug/L	MW-15R	03/08/2023		265.0000		
Barium	ug/L	MW-15R	09/13/2023		306.0000		
Barium	ug/L	MW-15R	05/29/2024		351.0000		
Barium	ug/L	MW-15R	10/15/2024		376.0000		
Beryllium	ug/L	MW-15R	03/11/2010	ND	1.0000		
Beryllium	ug/L	MW-15R	05/27/2010	ND	1.0000		
Beryllium	ug/L	MW-15R	08/31/2010	ND	1.0000		
Beryllium	ug/L	MW-15R	11/04/2010	ND	1.0000		
Beryllium	ug/L	MW-15R	02/16/2011	ND	1.0000		
Beryllium	ug/L	MW-15R	10/27/2011	ND	1.0000		
Beryllium	ug/L	MW-15R	04/26/2012	ND	4.0000		*
Beryllium	ug/L	MW-15R	10/09/2012	ND	1.0000		
Beryllium	ug/L	MW-15R	02/20/2013	ND	1.0000		
Beryllium	ug/L	MW-15R	10/03/2013	ND	1.0000		
Beryllium	ug/L	MW-15R	04/22/2014	ND	1.0000		
Beryllium	ug/L	MW-15R	10/14/2014	ND	1.0000		
Beryllium	ug/L	MW-15R	05/12/2015	ND	1.0000		
Beryllium	ug/L	MW-15R	07/29/2015	ND	1.0000		
Beryllium	ug/L	MW-15R	02/15/2016	ND	1.0000		
Beryllium	ug/L	MW-15R	10/31/2016	ND	1.0000		
Beryllium	ug/L	MW-15R	03/27/2017	ND	1.0000		
Beryllium	ug/L	MW-15R	11/13/2017	ND	1.0000		
Beryllium	ug/L	MW-15R	06/06/2018	ND	1.0000		
Beryllium	ug/L	MW-15R	11/27/2018	ND	1.0000		
Beryllium	ug/L	MW-15R	03/18/2019	ND	1.0000		
Beryllium	ug/L	MW-15R	12/02/2019	ND	1.0000		
Beryllium	ug/L	MW-15R	03/30/2020	ND	1.0000		
Beryllium	ug/L	MW-15R	11/17/2020	ND	1.0000		
Beryllium	ug/L	MW-15R	05/06/2021	ND	1.0000		
Beryllium	ug/L	MW-15R	10/07/2021	ND	1.0000		
Beryllium	ug/L	MW-15R	04/06/2022	ND	1.0000		
Beryllium	ug/L	MW-15R	08/23/2022	ND	1.0000		
Beryllium	ug/L	MW-15R	03/08/2023	ND	1.0000		
Beryllium	ug/L	MW-15R	09/13/2023	ND	1.0000		
Beryllium	ug/L	MW-15R	05/29/2024	ND	1.0000		
Beryllium	ug/L	MW-15R	10/15/2024	ND	4.0000		*
Cadmium	ug/L	MW-15R	03/11/2010		0.6490		
Cadmium	ug/L	MW-15R	05/27/2010		1.2500		
Cadmium	ug/L	MW-15R	08/31/2010		1.1100		
Cadmium	ug/L	MW-15R	11/04/2010		0.6100		
Cadmium	ug/L	MW-15R	02/16/2011		0.9480		
Cadmium	ug/L	MW-15R	10/27/2011		0.5140		
Cadmium	ug/L	MW-15R	04/26/2012	ND	0.8000	0.1110	**
Cadmium	ug/L	MW-15R	10/09/2012		0.7830		
Cadmium	ug/L	MW-15R	02/20/2013	ND	0.5000	0.1110	**
Cadmium	ug/L	MW-15R	10/03/2013		1.0700		
Cadmium	ug/L	MW-15R	04/22/2014		1.0470		
Cadmium	ug/L	MW-15R	10/14/2014	ND	0.2945	0.1110	**
Cadmium	ug/L	MW-15R	05/12/2015	ND	0.1950	0.1110	**
Cadmium	ug/L	MW-15R	07/29/2015	ND	0.1620	0.1110	**
Cadmium	ug/L	MW-15R	02/15/2016	ND	0.5000	0.1110	**
Cadmium	ug/L	MW-15R	10/31/2016	ND	0.0400	0.1110	**
Cadmium	ug/L	MW-15R	03/27/2017	ND	0.0480	0.1110	**
Cadmium	ug/L	MW-15R	11/13/2017	ND	0.0890	0.1110	**
Cadmium	ug/L	MW-15R	06/06/2018	ND	0.5000	0.1110	**
Cadmium	ug/L	MW-15R	11/27/2018	ND	0.5000	0.1110	**

* - Outlier for that well and constituent.
** - ND value replaced with median RL.
*** - ND value replaced with manual RL.
ND = Not detected, Result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Cadmium	ug/L	MW-15R	03/18/2019	ND	0.5000	0.1110	**
Cadmium	ug/L	MW-15R	12/02/2019	ND	0.1000	0.1110	**
Cadmium	ug/L	MW-15R	03/30/2020	ND	0.1000	0.1110	**
Cadmium	ug/L	MW-15R	11/17/2020	ND	0.1000	0.1110	**
Cadmium	ug/L	MW-15R	05/06/2021	ND	0.1000	0.1110	**
Cadmium	ug/L	MW-15R	10/07/2021	ND	0.1000	0.1110	**
Cadmium	ug/L	MW-15R	04/06/2022	ND	0.1000	0.1110	**
Cadmium	ug/L	MW-15R	08/23/2022	ND	0.1000	0.1110	**
Cadmium	ug/L	MW-15R	03/08/2023	ND	0.1000	0.1110	**
Cadmium	ug/L	MW-15R	09/13/2023	ND	0.2000	0.1110	**
Cadmium	ug/L	MW-15R	05/29/2024	ND	0.1110		
Cadmium	ug/L	MW-15R	10/15/2024	ND	0.8000	0.1110	**
Chromium	ug/L	MW-15R	03/11/2010	ND	20.0000	5.0000	**
Chromium	ug/L	MW-15R	05/27/2010	ND	20.0000	5.0000	**
Chromium	ug/L	MW-15R	08/31/2010	ND	20.0000	5.0000	**
Chromium	ug/L	MW-15R	11/04/2010	ND	20.0000	5.0000	**
Chromium	ug/L	MW-15R	02/16/2011	ND	20.0000	5.0000	**
Chromium	ug/L	MW-15R	10/27/2011	ND	20.0000	5.0000	**
Chromium	ug/L	MW-15R	04/26/2012	ND	20.0000	5.0000	**
Chromium	ug/L	MW-15R	10/09/2012	ND	20.0000	5.0000	**
Chromium	ug/L	MW-15R	02/20/2013	ND	20.0000	5.0000	**
Chromium	ug/L	MW-15R	10/03/2013	ND	3.0500	5.0000	**
Chromium	ug/L	MW-15R	04/22/2014	ND	20.0000	5.0000	**
Chromium	ug/L	MW-15R	10/14/2014	ND	20.0000	5.0000	**
Chromium	ug/L	MW-15R	05/12/2015	ND	5.0000		
Chromium	ug/L	MW-15R	07/29/2015	ND	5.0000		
Chromium	ug/L	MW-15R	02/15/2016	ND	5.0000		
Chromium	ug/L	MW-15R	10/31/2016	ND	0.7430	5.0000	**
Chromium	ug/L	MW-15R	03/27/2017	ND	0.7930	5.0000	**
Chromium	ug/L	MW-15R	11/13/2017	ND	0.9120	5.0000	**
Chromium	ug/L	MW-15R	06/06/2018	ND	4.3100	5.0000	**
Chromium	ug/L	MW-15R	11/27/2018	ND	0.8020	5.0000	**
Chromium	ug/L	MW-15R	03/18/2019	ND	5.0000		
Chromium	ug/L	MW-15R	12/02/2019	ND	5.0000		
Chromium	ug/L	MW-15R	03/30/2020	ND	5.0000		
Chromium	ug/L	MW-15R	11/17/2020	ND	5.0000		
Chromium	ug/L	MW-15R	05/06/2021	ND	5.0000		
Chromium	ug/L	MW-15R	10/07/2021	ND	1.1100	5.0000	**
Chromium	ug/L	MW-15R	04/06/2022	ND	5.0000		
Chromium	ug/L	MW-15R	08/23/2022	ND	5.0000		
Chromium	ug/L	MW-15R	03/08/2023	ND	5.0000		
Chromium	ug/L	MW-15R	09/13/2023	ND	5.0000		
Chromium	ug/L	MW-15R	05/29/2024	ND	5.0000		
Chromium	ug/L	MW-15R	10/15/2024	ND	8.0000	5.0000	**
Cobalt	ug/L	MW-15R	03/11/2010	ND	1.5500	0.5000	**
Cobalt	ug/L	MW-15R	05/27/2010		1.7700		
Cobalt	ug/L	MW-15R	08/31/2010	ND	1.5500	0.5000	**
Cobalt	ug/L	MW-15R	11/04/2010	ND	1.5500	0.5000	**
Cobalt	ug/L	MW-15R	02/16/2011	ND	1.5500	0.5000	**
Cobalt	ug/L	MW-15R	10/27/2011	ND	1.5500	0.5000	**
Cobalt	ug/L	MW-15R	04/26/2012		2.0000		
Cobalt	ug/L	MW-15R	10/09/2012	ND	1.5500	0.5000	**
Cobalt	ug/L	MW-15R	02/20/2013	ND	1.3200	0.5000	**
Cobalt	ug/L	MW-15R	10/03/2013	ND	1.3200	0.5000	**
Cobalt	ug/L	MW-15R	04/22/2014	ND	2.4100	0.5000	**
Cobalt	ug/L	MW-15R	10/14/2014	ND	2.4100	0.5000	**
Cobalt	ug/L	MW-15R	05/12/2015	ND	0.2440	0.5000	**
Cobalt	ug/L	MW-15R	07/29/2015	ND	0.0700	0.5000	**
Cobalt	ug/L	MW-15R	02/15/2016	ND	0.1520	0.5000	**
Cobalt	ug/L	MW-15R	10/31/2016	ND	0.5000		
Cobalt	ug/L	MW-15R	03/27/2017	ND	0.5000		
Cobalt	ug/L	MW-15R	11/13/2017	ND	0.5000		
Cobalt	ug/L	MW-15R	06/06/2018	ND	1.0000	0.5000	**
Cobalt	ug/L	MW-15R	11/27/2018		1.0200		
Cobalt	ug/L	MW-15R	03/18/2019	ND	0.2140	0.5000	**
Cobalt	ug/L	MW-15R	12/02/2019	ND	0.5000		
Cobalt	ug/L	MW-15R	03/30/2020	ND	0.5000		
Cobalt	ug/L	MW-15R	11/17/2020	ND	0.5000		
Cobalt	ug/L	MW-15R	05/06/2021	ND	0.5000		
Cobalt	ug/L	MW-15R	10/07/2021	ND	0.5000		
Cobalt	ug/L	MW-15R	04/06/2022	ND	0.4640	0.5000	**
Cobalt	ug/L	MW-15R	08/23/2022	ND	0.5000		
Cobalt	ug/L	MW-15R	03/08/2023	ND	0.3080	0.5000	**
Cobalt	ug/L	MW-15R	09/13/2023	ND	0.5000		

*   - Outlier for that well and constituent.
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ND = Not detected, Result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Cobalt	ug/L	MW-15R	05/29/2024		2.7300		
Cobalt	ug/L	MW-15R	10/15/2024		4.2000		
Copper	ug/L	MW-15R	03/11/2010	ND	20.0000	5.0000	**
Copper	ug/L	MW-15R	05/27/2010	ND	20.0000	5.0000	**
Copper	ug/L	MW-15R	08/31/2010	ND	20.0000	5.0000	**
Copper	ug/L	MW-15R	11/04/2010	ND	20.0000	5.0000	**
Copper	ug/L	MW-15R	02/16/2011	ND	20.0000	5.0000	**
Copper	ug/L	MW-15R	10/27/2011	ND	20.0000	5.0000	**
Copper	ug/L	MW-15R	04/26/2012	ND	20.0000	5.0000	**
Copper	ug/L	MW-15R	10/09/2012	ND	20.0000	5.0000	**
Copper	ug/L	MW-15R	02/20/2013	ND	20.0000	5.0000	**
Copper	ug/L	MW-15R	10/03/2013	ND	6.5200	5.0000	**
Copper	ug/L	MW-15R	04/22/2014	ND	6.6800	5.0000	**
Copper	ug/L	MW-15R	10/14/2014	ND	11.8300	5.0000	**
Copper	ug/L	MW-15R	05/12/2015	ND	1.5300	5.0000	**
Copper	ug/L	MW-15R	07/29/2015	ND	1.0600	5.0000	**
Copper	ug/L	MW-15R	02/15/2016	ND	2.0000	5.0000	**
Copper	ug/L	MW-15R	10/31/2016	ND	5.0000		
Copper	ug/L	MW-15R	03/27/2017	ND	5.0000		
Copper	ug/L	MW-15R	11/13/2017	ND	5.0000		
Copper	ug/L	MW-15R	06/06/2018	ND	0.8860	5.0000	**
Copper	ug/L	MW-15R	11/27/2018	ND	5.0000		
Copper	ug/L	MW-15R	03/18/2019	ND	5.0000		
Copper	ug/L	MW-15R	12/02/2019	ND	5.0000		
Copper	ug/L	MW-15R	03/30/2020	ND	5.0000		
Copper	ug/L	MW-15R	11/17/2020	ND	5.0000		
Copper	ug/L	MW-15R	05/06/2021	ND	5.0000		
Copper	ug/L	MW-15R	10/07/2021	ND	5.0000		
Copper	ug/L	MW-15R	04/06/2022	ND	5.0000		
Copper	ug/L	MW-15R	08/23/2022	ND	5.0000		
Copper	ug/L	MW-15R	03/08/2023	ND	5.0000		
Copper	ug/L	MW-15R	09/13/2023	ND	5.0000		
Copper	ug/L	MW-15R	05/29/2024	ND	5.0000		
Copper	ug/L	MW-15R	10/15/2024	ND	4.0000	5.0000	**
Lead	ug/L	MW-15R	03/11/2010	ND	4.0000	0.5000	**
Lead	ug/L	MW-15R	05/27/2010	ND	4.0000	0.5000	**
Lead	ug/L	MW-15R	08/31/2010	ND	4.0000	0.5000	**
Lead	ug/L	MW-15R	11/04/2010	ND	4.0000	0.5000	**
Lead	ug/L	MW-15R	02/16/2011	ND	4.0000	0.5000	**
Lead	ug/L	MW-15R	10/27/2011	ND	4.0000	0.5000	**
Lead	ug/L	MW-15R	04/26/2012	ND	4.0000	0.5000	**
Lead	ug/L	MW-15R	10/09/2012	ND	4.0000	0.5000	**
Lead	ug/L	MW-15R	02/20/2013	ND	4.0000	0.5000	**
Lead	ug/L	MW-15R	10/03/2013	ND	1.8300	0.5000	**
Lead	ug/L	MW-15R	04/22/2014	ND	2.4200	0.5000	**
Lead	ug/L	MW-15R	10/14/2014	ND	4.0000	0.5000	**
Lead	ug/L	MW-15R	05/12/2015	ND	0.2640	0.5000	**
Lead	ug/L	MW-15R	07/29/2015	ND	0.5000		
Lead	ug/L	MW-15R	02/15/2016	ND	0.5000		
Lead	ug/L	MW-15R	10/31/2016	ND	0.5000		
Lead	ug/L	MW-15R	03/27/2017	ND	0.5000		
Lead	ug/L	MW-15R	11/13/2017		0.5180		
Lead	ug/L	MW-15R	06/06/2018	ND	0.5000		
Lead	ug/L	MW-15R	11/27/2018	ND	0.5000		
Lead	ug/L	MW-15R	03/18/2019	ND	0.5000		
Lead	ug/L	MW-15R	12/02/2019	ND	0.5000		
Lead	ug/L	MW-15R	03/30/2020	ND	0.5000		
Lead	ug/L	MW-15R	11/17/2020	ND	0.5000		
Lead	ug/L	MW-15R	05/06/2021	ND	0.5000		
Lead	ug/L	MW-15R	10/07/2021	ND	0.5000		
Lead	ug/L	MW-15R	04/06/2022	ND	0.5000		
Lead	ug/L	MW-15R	08/23/2022	ND	0.5000		
Lead	ug/L	MW-15R	03/08/2023	ND	0.5000		
Lead	ug/L	MW-15R	09/13/2023	ND	0.5000		
Lead	ug/L	MW-15R	05/29/2024	ND	0.5000		
Lead	ug/L	MW-15R	10/15/2024	ND	4.0000	0.5000	**
Nickel	ug/L	MW-15R	03/11/2010	ND	50.0000	5.0000	**
Nickel	ug/L	MW-15R	05/27/2010	ND	50.0000	5.0000	**
Nickel	ug/L	MW-15R	08/31/2010	ND	50.0000	5.0000	**
Nickel	ug/L	MW-15R	11/04/2010	ND	50.0000	5.0000	**
Nickel	ug/L	MW-15R	02/16/2011	ND	50.0000	5.0000	**
Nickel	ug/L	MW-15R	10/27/2011	ND	50.0000	5.0000	**
Nickel	ug/L	MW-15R	04/26/2012	ND	50.0000	5.0000	**
Nickel	ug/L	MW-15R	10/09/2012	ND	50.0000	5.0000	**

* - Outlier for that well and constituent.
** - ND value replaced with median RL.
*** - ND value replaced with manual RL.
ND = Not detected, Result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Nickel	ug/L	MW-15R	02/20/2013	ND	50.0000	5.0000	**
Nickel	ug/L	MW-15R	10/03/2013	ND	3.1100	5.0000	**
Nickel	ug/L	MW-15R	04/22/2014	ND	50.0000	5.0000	**
Nickel	ug/L	MW-15R	10/14/2014	ND	11.8500	5.0000	**
Nickel	ug/L	MW-15R	05/12/2015	ND	2.3800	5.0000	**
Nickel	ug/L	MW-15R	07/29/2015	ND	0.6790	5.0000	**
Nickel	ug/L	MW-15R	02/15/2016	ND	5.0000		
Nickel	ug/L	MW-15R	10/31/2016	ND	5.0000		
Nickel	ug/L	MW-15R	03/27/2017	ND	5.0000		
Nickel	ug/L	MW-15R	11/13/2017	ND	5.0000		
Nickel	ug/L	MW-15R	06/06/2018	ND	1.0300	5.0000	**
Nickel	ug/L	MW-15R	11/27/2018	ND	5.0000		
Nickel	ug/L	MW-15R	03/18/2019	ND	5.0000		
Nickel	ug/L	MW-15R	12/02/2019	ND	5.0000		
Nickel	ug/L	MW-15R	03/30/2020	ND	5.0000		
Nickel	ug/L	MW-15R	11/17/2020	ND	5.0000		
Nickel	ug/L	MW-15R	05/06/2021	ND	5.0000		
Nickel	ug/L	MW-15R	10/07/2021	ND	5.0000		
Nickel	ug/L	MW-15R	04/06/2022	ND	5.0000		
Nickel	ug/L	MW-15R	08/23/2022	ND	5.0000		
Nickel	ug/L	MW-15R	03/08/2023	ND	2.3300	5.0000	**
Nickel	ug/L	MW-15R	09/13/2023	ND	5.0000		
Nickel	ug/L	MW-15R	05/29/2024	ND	2.4800	5.0000	**
Nickel	ug/L	MW-15R	10/15/2024		6.3000		
Selenium	ug/L	MW-15R	03/11/2010	ND	5.0000		
Selenium	ug/L	MW-15R	05/27/2010	ND	5.0000		
Selenium	ug/L	MW-15R	08/31/2010	ND	5.0000		
Selenium	ug/L	MW-15R	11/04/2010	ND	5.0000		
Selenium	ug/L	MW-15R	02/16/2011	ND	5.0000		
Selenium	ug/L	MW-15R	10/27/2011	ND	5.0000		
Selenium	ug/L	MW-15R	04/26/2012	ND	5.0000		
Selenium	ug/L	MW-15R	10/09/2012	ND	5.0000		
Selenium	ug/L	MW-15R	02/20/2013	ND	5.0000		
Selenium	ug/L	MW-15R	10/03/2013	ND	2.4600	5.0000	**
Selenium	ug/L	MW-15R	04/22/2014	ND	5.0000		
Selenium	ug/L	MW-15R	10/14/2014	ND	5.0000		
Selenium	ug/L	MW-15R	05/12/2015	ND	5.0000		
Selenium	ug/L	MW-15R	07/29/2015	ND	5.0000		
Selenium	ug/L	MW-15R	02/15/2016	ND	5.0000		
Selenium	ug/L	MW-15R	10/31/2016	ND	1.2100	5.0000	**
Selenium	ug/L	MW-15R	03/27/2017	ND	1.1900	5.0000	**
Selenium	ug/L	MW-15R	11/13/2017	ND	1.1900	5.0000	**
Selenium	ug/L	MW-15R	06/06/2018	ND	1.5200	5.0000	**
Selenium	ug/L	MW-15R	11/27/2018	ND	1.5800	5.0000	**
Selenium	ug/L	MW-15R	03/18/2019	ND	5.0000		
Selenium	ug/L	MW-15R	12/02/2019	ND	5.0000		
Selenium	ug/L	MW-15R	03/30/2020	ND	1.2900	5.0000	**
Selenium	ug/L	MW-15R	11/17/2020	ND	5.0000		
Selenium	ug/L	MW-15R	05/06/2021	ND	2.0700	5.0000	**
Selenium	ug/L	MW-15R	10/07/2021	ND	1.3500	5.0000	**
Selenium	ug/L	MW-15R	04/06/2022	ND	1.0000	5.0000	**
Selenium	ug/L	MW-15R	08/23/2022	ND	1.1300	5.0000	**
Selenium	ug/L	MW-15R	03/08/2023	ND	1.5500	5.0000	**
Selenium	ug/L	MW-15R	09/13/2023	ND	5.0000		
Selenium	ug/L	MW-15R	05/29/2024	ND	5.0000		
Selenium	ug/L	MW-15R	10/15/2024	ND	4.0000	5.0000	**
Silver	ug/L	MW-15R	03/11/2010	ND	20.0000	1.0000	**
Silver	ug/L	MW-15R	05/27/2010	ND	20.0000	1.0000	**
Silver	ug/L	MW-15R	08/31/2010	ND	20.0000	1.0000	**
Silver	ug/L	MW-15R	11/04/2010	ND	20.0000	1.0000	**
Silver	ug/L	MW-15R	02/16/2011	ND	20.0000	1.0000	**
Silver	ug/L	MW-15R	10/27/2011	ND	20.0000	1.0000	**
Silver	ug/L	MW-15R	04/26/2012	ND	20.0000	1.0000	**
Silver	ug/L	MW-15R	10/09/2012	ND	20.0000	1.0000	**
Silver	ug/L	MW-15R	02/20/2013	ND	20.0000	1.0000	**
Silver	ug/L	MW-15R	10/03/2013	ND	20.0000	1.0000	**
Silver	ug/L	MW-15R	04/22/2014	ND	20.0000	1.0000	**
Silver	ug/L	MW-15R	10/14/2014	ND	20.0000	1.0000	**
Silver	ug/L	MW-15R	05/12/2015	ND	1.0000		
Silver	ug/L	MW-15R	07/29/2015	ND	1.0000		
Silver	ug/L	MW-15R	02/15/2016	ND	1.0000		
Silver	ug/L	MW-15R	10/31/2016	ND	1.0000		
Silver	ug/L	MW-15R	03/27/2017	ND	1.0000		
Silver	ug/L	MW-15R	11/13/2017	ND	1.0000		

* - Outlier for that well and constituent.
** - ND value replaced with median RL.
*** - ND value replaced with manual RL.
ND = Not detected, Result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Silver	ug/L	MW-15R	06/06/2018	ND	0.5000	1.0000	**
Silver	ug/L	MW-15R	11/27/2018	ND	1.0000		
Silver	ug/L	MW-15R	03/18/2019	ND	1.0000		
Silver	ug/L	MW-15R	12/02/2019	ND	1.0000		
Silver	ug/L	MW-15R	03/30/2020	ND	1.0000		
Silver	ug/L	MW-15R	11/17/2020	ND	1.0000		
Silver	ug/L	MW-15R	05/06/2021	ND	1.0000		
Silver	ug/L	MW-15R	10/07/2021	ND	1.0000		
Silver	ug/L	MW-15R	04/06/2022	ND	1.0000		
Silver	ug/L	MW-15R	08/23/2022	ND	1.0000		
Silver	ug/L	MW-15R	03/08/2023	ND	1.0000		
Silver	ug/L	MW-15R	09/13/2023	ND	1.0000		
Silver	ug/L	MW-15R	05/29/2024	ND	1.0000		
Silver	ug/L	MW-15R	10/15/2024	ND	4.0000	1.0000	**
Thallium	ug/L	MW-15R	03/11/2010	ND	2.0000	1.0000	**
Thallium	ug/L	MW-15R	05/27/2010	ND	2.0000	1.0000	**
Thallium	ug/L	MW-15R	08/31/2010	ND	2.0000	1.0000	**
Thallium	ug/L	MW-15R	11/04/2010	ND	2.0000	1.0000	**
Thallium	ug/L	MW-15R	02/16/2011	ND	2.0000	1.0000	**
Thallium	ug/L	MW-15R	10/27/2011	ND	2.0000	1.0000	**
Thallium	ug/L	MW-15R	04/26/2012	ND	2.0000	1.0000	**
Thallium	ug/L	MW-15R	10/09/2012	ND	2.0000	1.0000	**
Thallium	ug/L	MW-15R	02/20/2013	ND	2.0000	1.0000	**
Thallium	ug/L	MW-15R	10/03/2013	ND	2.0000	1.0000	**
Thallium	ug/L	MW-15R	04/22/2014	ND	2.0000	1.0000	**
Thallium	ug/L	MW-15R	10/14/2014	ND	2.0000	1.0000	**
Thallium	ug/L	MW-15R	05/12/2015	ND	1.0000		
Thallium	ug/L	MW-15R	07/29/2015	ND	1.0000		
Thallium	ug/L	MW-15R	02/15/2016	ND	1.0000		
Thallium	ug/L	MW-15R	10/31/2016	ND	1.0000		
Thallium	ug/L	MW-15R	03/27/2017	ND	1.0000		
Thallium	ug/L	MW-15R	11/13/2017	ND	1.0000		
Thallium	ug/L	MW-15R	06/06/2018	ND	2.0000	1.0000	**
Thallium	ug/L	MW-15R	11/27/2018	ND	1.0000		
Thallium	ug/L	MW-15R	03/18/2019	ND	1.0000		
Thallium	ug/L	MW-15R	12/02/2019	ND	1.0000		
Thallium	ug/L	MW-15R	03/30/2020	ND	1.0000		
Thallium	ug/L	MW-15R	11/17/2020	ND	1.0000		
Thallium	ug/L	MW-15R	05/06/2021	ND	1.0000		
Thallium	ug/L	MW-15R	10/07/2021	ND	1.0000		
Thallium	ug/L	MW-15R	04/06/2022	ND	1.0000		
Thallium	ug/L	MW-15R	08/23/2022	ND	1.0000		
Thallium	ug/L	MW-15R	03/08/2023	ND	1.0000		
Thallium	ug/L	MW-15R	09/13/2023	ND	1.0000		
Thallium	ug/L	MW-15R	05/29/2024	ND	1.0000		
Thallium	ug/L	MW-15R	10/15/2024	ND	2.0000	1.0000	**
Vanadium	ug/L	MW-15R	03/11/2010	ND	50.0000	5.0000	**
Vanadium	ug/L	MW-15R	05/27/2010	ND	50.0000	5.0000	**
Vanadium	ug/L	MW-15R	08/31/2010	ND	50.0000	5.0000	**
Vanadium	ug/L	MW-15R	11/04/2010	ND	50.0000	5.0000	**
Vanadium	ug/L	MW-15R	02/16/2011	ND	50.0000	5.0000	**
Vanadium	ug/L	MW-15R	10/27/2011	ND	50.0000	5.0000	**
Vanadium	ug/L	MW-15R	04/26/2012	ND	50.0000	5.0000	**
Vanadium	ug/L	MW-15R	10/09/2012	ND	50.0000	5.0000	**
Vanadium	ug/L	MW-15R	02/20/2013	ND	50.0000	5.0000	**
Vanadium	ug/L	MW-15R	10/03/2013	ND	50.0000	5.0000	**
Vanadium	ug/L	MW-15R	04/22/2014	ND	2.9900	5.0000	**
Vanadium	ug/L	MW-15R	10/14/2014	ND	26.3450	5.0000	**
Vanadium	ug/L	MW-15R	05/12/2015	ND	5.0000		
Vanadium	ug/L	MW-15R	07/29/2015	ND	0.4570	5.0000	**
Vanadium	ug/L	MW-15R	02/15/2016	ND	5.0000		
Vanadium	ug/L	MW-15R	10/31/2016	ND	0.3370	5.0000	**
Vanadium	ug/L	MW-15R	03/27/2017	ND	5.0000		
Vanadium	ug/L	MW-15R	11/13/2017	ND	5.0000		
Vanadium	ug/L	MW-15R	06/06/2018	ND	3.2300	5.0000	**
Vanadium	ug/L	MW-15R	11/27/2018	ND	0.5650	5.0000	**
Vanadium	ug/L	MW-15R	03/18/2019	ND	5.0000		
Vanadium	ug/L	MW-15R	12/02/2019	ND	5.0000		
Vanadium	ug/L	MW-15R	03/30/2020	ND	5.0000		
Vanadium	ug/L	MW-15R	11/17/2020	ND	5.0000		
Vanadium	ug/L	MW-15R	05/06/2021	ND	5.0000		
Vanadium	ug/L	MW-15R	10/07/2021	ND	5.0000		
Vanadium	ug/L	MW-15R	04/06/2022	ND	5.0000		
Vanadium	ug/L	MW-15R	08/23/2022	ND	5.0000		

* - Outlier for that well and constituent.
** - ND value replaced with median RL.
*** - ND value replaced with manual RL.
ND = Not detected, Result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Vanadium	ug/L	MW-15R	03/08/2023	ND	5.0000		
Vanadium	ug/L	MW-15R	09/13/2023	ND	5.0000		
Vanadium	ug/L	MW-15R	05/29/2024	ND	5.0000		
Vanadium	ug/L	MW-15R	10/15/2024	ND	20.0000	5.0000	**
Zinc	ug/L	MW-15R	03/11/2010		57.7000		
Zinc	ug/L	MW-15R	05/27/2010	ND	20.0000		
Zinc	ug/L	MW-15R	08/31/2010		48.9000		
Zinc	ug/L	MW-15R	11/04/2010		22.6000		
Zinc	ug/L	MW-15R	02/16/2011	ND	20.0000		
Zinc	ug/L	MW-15R	10/27/2011		39.4000		
Zinc	ug/L	MW-15R	04/26/2012		23.8000		
Zinc	ug/L	MW-15R	10/09/2012		145.0000		
Zinc	ug/L	MW-15R	02/20/2013		51.1000		
Zinc	ug/L	MW-15R	10/03/2013		185.0000		
Zinc	ug/L	MW-15R	04/22/2014	ND	20.0000		
Zinc	ug/L	MW-15R	10/14/2014	ND	20.0000		
Zinc	ug/L	MW-15R	05/12/2015	ND	7.9300	20.0000	**
Zinc	ug/L	MW-15R	07/29/2015	ND	10.0000	20.0000	**
Zinc	ug/L	MW-15R	02/15/2016	ND	10.0000	20.0000	**
Zinc	ug/L	MW-15R	10/31/2016	ND	10.0000	20.0000	**
Zinc	ug/L	MW-15R	03/27/2017	ND	20.0000		
Zinc	ug/L	MW-15R	11/13/2017	ND	20.0000		
Zinc	ug/L	MW-15R	06/06/2018	ND	10.8000	20.0000	**
Zinc	ug/L	MW-15R	11/27/2018	ND	20.0000		
Zinc	ug/L	MW-15R	03/18/2019	ND	20.0000		
Zinc	ug/L	MW-15R	12/02/2019	ND	20.0000		
Zinc	ug/L	MW-15R	03/30/2020	ND	20.0000		
Zinc	ug/L	MW-15R	11/17/2020	ND	20.0000		
Zinc	ug/L	MW-15R	05/06/2021	ND	20.0000		
Zinc	ug/L	MW-15R	10/07/2021	ND	20.0000		
Zinc	ug/L	MW-15R	04/06/2022	ND	20.0000		
Zinc	ug/L	MW-15R	08/23/2022	ND	20.0000		
Zinc	ug/L	MW-15R	03/08/2023	ND	20.0000		
Zinc	ug/L	MW-15R	09/13/2023	ND	20.0000		
Zinc	ug/L	MW-15R	05/29/2024	ND	20.0000		
Zinc	ug/L	MW-15R	10/15/2024	ND	20.0000		

* - Outlier for that well and constituent.
** - ND value replaced with median RL.
*** - ND value replaced with manual RL.
ND = Not detected, Result = detection limit.

Table 2

Most Current Downgradient Monitoring Data

Constituent	Units	Well	Date		Result		Pred. Limit
Antimony	ug/L	MW-19	10/15/2024	ND	2.0000		2.0000
Arsenic	ug/L	MW-19	10/15/2024	ND	4.0000		9.1300
Barium	ug/L	MW-19	10/15/2024		966.0000	***	386.3237
Beryllium	ug/L	MW-19	10/15/2024	ND	4.0000		1.0000
Cadmium	ug/L	MW-19	10/15/2024	ND	0.8000		1.2500
Chromium	ug/L	MW-19	10/15/2024	ND	8.0000		5.0000
Cobalt	ug/L	MW-19	10/15/2024		19.5000	***	4.2000
Copper	ug/L	MW-19	10/15/2024	ND	4.0000		5.0000
Lead	ug/L	MW-19	10/15/2024	ND	4.0000		0.5180
Nickel	ug/L	MW-19	10/15/2024		55.7000	***	6.3000
Selenium	ug/L	MW-19	10/15/2024	ND	4.0000		5.0000
Silver	ug/L	MW-19	10/15/2024	ND	4.0000		1.0000
Thallium	ug/L	MW-19	10/15/2024	ND	2.0000		1.0000
Vanadium	ug/L	MW-19	10/15/2024	ND	20.0000		5.0000
Zinc	ug/L	MW-19	10/15/2024	ND	20.0000		185.0000
Antimony	ug/L	MW-20	10/15/2024	ND	2.0000		2.0000
Arsenic	ug/L	MW-20	10/15/2024		77.5000	***	9.1300
Barium	ug/L	MW-20	10/15/2024		2430.0000	***	386.3237
Beryllium	ug/L	MW-20	10/15/2024	ND	4.0000		1.0000
Cadmium	ug/L	MW-20	10/15/2024	ND	0.8000		1.2500
Chromium	ug/L	MW-20	10/15/2024	ND	8.0000		5.0000
Cobalt	ug/L	MW-20	10/15/2024		9.9000	***	4.2000
Copper	ug/L	MW-20	10/15/2024	ND	4.0000		5.0000
Lead	ug/L	MW-20	10/15/2024	ND	4.0000		0.5180
Nickel	ug/L	MW-20	10/15/2024		50.8000	***	6.3000
Selenium	ug/L	MW-20	10/15/2024	ND	4.0000		5.0000
Silver	ug/L	MW-20	10/15/2024	ND	4.0000		1.0000
Thallium	ug/L	MW-20	10/15/2024	ND	2.0000		1.0000
Vanadium	ug/L	MW-20	10/15/2024	ND	20.0000		5.0000
Zinc	ug/L	MW-20	10/15/2024	ND	20.0000		185.0000
Antimony	ug/L	MW-21	10/15/2024	ND	2.0000		2.0000
Arsenic	ug/L	MW-21	10/15/2024		6.7000		9.1300
Barium	ug/L	MW-21	10/15/2024		1170.0000	***	386.3237
Beryllium	ug/L	MW-21	10/15/2024	ND	4.0000		1.0000
Cadmium	ug/L	MW-21	10/15/2024	ND	0.8000		1.2500
Chromium	ug/L	MW-21	10/15/2024	ND	8.0000		5.0000
Cobalt	ug/L	MW-21	10/15/2024		13.4000	***	4.2000
Copper	ug/L	MW-21	10/15/2024		7.4000	*	5.0000
Lead	ug/L	MW-21	10/15/2024	ND	4.0000		0.5180
Nickel	ug/L	MW-21	10/15/2024		27.2000	***	6.3000
Selenium	ug/L	MW-21	10/15/2024	ND	4.0000		5.0000
Silver	ug/L	MW-21	10/15/2024	ND	4.0000		1.0000
Thallium	ug/L	MW-21	10/15/2024	ND	2.0000		1.0000
Vanadium	ug/L	MW-21	10/15/2024	ND	20.0000		5.0000
Zinc	ug/L	MW-21	10/15/2024		28.1000		185.0000
Antimony	ug/L	MW-24	10/15/2024	ND	2.0000		2.0000
Arsenic	ug/L	MW-24	10/15/2024		9.9000	*	9.1300
Barium	ug/L	MW-24	10/15/2024		700.0000	***	386.3237
Beryllium	ug/L	MW-24	10/15/2024	ND	4.0000		1.0000
Cadmium	ug/L	MW-24	10/15/2024		1.1000		1.2500
Chromium	ug/L	MW-24	10/15/2024	ND	8.0000		5.0000
Cobalt	ug/L	MW-24	10/15/2024		4.3000	*	4.2000
Copper	ug/L	MW-24	10/15/2024		4.6000		5.0000
Lead	ug/L	MW-24	10/15/2024	ND	4.0000		0.5180
Nickel	ug/L	MW-24	10/15/2024		32.7000	***	6.3000
Selenium	ug/L	MW-24	10/15/2024	ND	4.0000		5.0000
Silver	ug/L	MW-24	10/15/2024	ND	4.0000		1.0000
Thallium	ug/L	MW-24	10/15/2024	ND	2.0000		1.0000
Vanadium	ug/L	MW-24	10/15/2024	ND	20.0000		5.0000
Zinc	ug/L	MW-24	10/15/2024	ND	20.0000		185.0000
Antimony	ug/L	MW-37R	10/15/2024	ND	2.0000		2.0000
Arsenic	ug/L	MW-37R	10/15/2024	ND	4.0000		9.1300
Barium	ug/L	MW-37R	10/15/2024		715.0000	***	386.3237
Beryllium	ug/L	MW-37R	10/15/2024	ND	4.0000		1.0000
Cadmium	ug/L	MW-37R	10/15/2024	ND	0.8000		1.2500
Chromium	ug/L	MW-37R	10/15/2024	ND	8.0000		5.0000
Cobalt	ug/L	MW-37R	10/15/2024	ND	0.4000		4.2000
Copper	ug/L	MW-37R	10/15/2024	ND	4.0000		5.0000
Lead	ug/L	MW-37R	10/15/2024	ND	4.0000	**	0.5180
Nickel	ug/L	MW-37R	10/15/2024	ND	4.0000		6.3000
Selenium	ug/L	MW-37R	10/15/2024		15.8000	***	5.0000
Silver	ug/L	MW-37R	10/15/2024	ND	4.0000		1.0000

* - Current value failed - awaiting verification.
** - Current value passed - previous exceedance not verified.
*** - Current value failed - exceedance verified.
**** - Current value passed - awaiting one more verification.
***** - Insufficient background data to compute prediction limit.
ND = Not Detected, Result = detection limit.

Table 2

Most Current Downgradient Monitoring Data

Constituent	Units	Well	Date		Result		Pred. Limit
Thallium	ug/L	MW-37R	10/15/2024	ND	2.0000		1.0000
Vanadium	ug/L	MW-37R	10/15/2024	ND	20.0000		5.0000
Zinc	ug/L	MW-37R	10/15/2024	ND	20.0000		185.0000
Antimony	ug/L	MW-38R	10/15/2024	ND	2.0000		2.0000
Arsenic	ug/L	MW-38R	10/15/2024		15.7000	*	9.1300
Barium	ug/L	MW-38R	10/15/2024		337.0000		386.3237
Beryllium	ug/L	MW-38R	10/15/2024	ND	4.0000		1.0000
Cadmium	ug/L	MW-38R	10/15/2024		1.9000	*	1.2500
Chromium	ug/L	MW-38R	10/15/2024		218.0000	***	5.0000
Cobalt	ug/L	MW-38R	10/15/2024		16.8000	*	4.2000
Copper	ug/L	MW-38R	10/15/2024		23.9000	***	5.0000
Lead	ug/L	MW-38R	10/15/2024		14.5000	*	0.5180
Nickel	ug/L	MW-38R	10/15/2024		145.0000	***	6.3000
Selenium	ug/L	MW-38R	10/15/2024		7.8000	***	5.0000
Silver	ug/L	MW-38R	10/15/2024	ND	4.0000		1.0000
Thallium	ug/L	MW-38R	10/15/2024	ND	2.0000		1.0000
Vanadium	ug/L	MW-38R	10/15/2024		59.3000	*	5.0000
Zinc	ug/L	MW-38R	10/15/2024		44.0000		185.0000
Antimony	ug/L	MW-39	10/15/2024	ND	2.0000		2.0000
Arsenic	ug/L	MW-39	10/15/2024	ND	4.0000		9.1300
Barium	ug/L	MW-39	10/15/2024		93.1000		386.3237
Beryllium	ug/L	MW-39	10/15/2024	ND	4.0000		1.0000
Cadmium	ug/L	MW-39	10/15/2024	ND	0.8000		1.2500
Chromium	ug/L	MW-39	10/15/2024	ND	8.0000		5.0000
Cobalt	ug/L	MW-39	10/15/2024	ND	0.4000		4.2000
Copper	ug/L	MW-39	10/15/2024	ND	4.0000		5.0000
Lead	ug/L	MW-39	10/15/2024	ND	4.0000		0.5180
Nickel	ug/L	MW-39	10/15/2024	ND	4.0000		6.3000
Selenium	ug/L	MW-39	10/15/2024		63.6000	***	5.0000
Silver	ug/L	MW-39	10/15/2024	ND	4.0000		1.0000
Thallium	ug/L	MW-39	10/15/2024	ND	2.0000		1.0000
Vanadium	ug/L	MW-39	10/15/2024	ND	20.0000		5.0000
Zinc	ug/L	MW-39	10/15/2024	ND	20.0000		185.0000
Antimony	ug/L	MW-43	10/15/2024	ND	2.0000		2.0000
Arsenic	ug/L	MW-43	10/15/2024	ND	4.0000		9.1300
Barium	ug/L	MW-43	10/15/2024		231.0000		386.3237
Beryllium	ug/L	MW-43	10/15/2024	ND	4.0000		1.0000
Cadmium	ug/L	MW-43	10/15/2024	ND	0.8000		1.2500
Chromium	ug/L	MW-43	10/15/2024	ND	8.0000		5.0000
Cobalt	ug/L	MW-43	10/15/2024		1.3000		4.2000
Copper	ug/L	MW-43	10/15/2024	ND	4.0000		5.0000
Lead	ug/L	MW-43	10/15/2024	ND	4.0000		0.5180
Nickel	ug/L	MW-43	10/15/2024		4.5000		6.3000
Selenium	ug/L	MW-43	10/15/2024	ND	4.0000		5.0000
Silver	ug/L	MW-43	10/15/2024	ND	4.0000		1.0000
Thallium	ug/L	MW-43	10/15/2024	ND	2.0000		1.0000
Vanadium	ug/L	MW-43	10/15/2024	ND	20.0000		5.0000
Zinc	ug/L	MW-43	10/15/2024	ND	20.0000		185.0000

* - Current value failed - awaiting verification.
** - Current value passed - previous exceedance not verified.
*** - Current value failed - exceedance verified.
**** - Current value passed - awaiting one more verification.
***** - Insufficient background data to compute prediction limit.
ND = Not Detected, Result = detection limit.

Table 3

Detection Frequencies in Upgradient and Downgradient Wells

Constituent	Upgradient Detect	Upgradient N	Upgradient Proportion	Downgradient Detect	Downgradient N	Downgradient Proportion
Antimony	0	32	0.000	1	184	0.005
Arsenic	5	32	0.156	75	206	0.364
Barium	32	32	1.000	200	200	1.000
Beryllium	0	30	0.000	5	184	0.027
Cadmium	9	32	0.281	84	186	0.452
Chromium	0	32	0.000	8	184	0.043
Cobalt	5	32	0.156	125	197	0.635
Copper	0	32	0.000	17	184	0.092
Lead	1	32	0.031	47	185	0.254
Nickel	1	32	0.031	111	196	0.566
Selenium	0	32	0.000	61	187	0.326
Silver	0	32	0.000	0	184	0.000
Thallium	0	32	0.000	2	184	0.011
Vanadium	0	32	0.000	7	184	0.038
Zinc	8	32	0.250	49	184	0.266

N = Total number of measurements in all wells.
Detect = Total number of detections in all wells.
Proportion = Detect/N.

Table 4

Shapiro-Wilk Multiple Group Test of Normality

Constituent	Detect	N	Detect Freq	G raw	G log	G cbrt	G sqrt	G sqr	G cub	Crit Value	Dist Form	Model Type
Antimony	0	32	0.000									nonpar
Arsenic	5	32	0.156	0.799	0.120					2.326	normal	nonpar
Barium	32	32	1.000	0.167	2.335					2.326	normal	normal
Beryllium	0	30	0.000									nonpar
Cadmium	9	32	0.281	0.099	0.249					2.326	normal	nonpar
Chromium	0	32	0.000									nonpar
Cobalt	5	32	0.156	0.611	1.958					2.326	normal	nonpar
Copper	0	32	0.000									nonpar
Lead	1	32	0.031									nonpar
Nickel	1	32	0.031									nonpar
Selenium	0	32	0.000									nonpar
Silver	0	32	0.000									nonpar
Thallium	0	32	0.000									nonpar
Vanadium	0	32	0.000									nonpar
Zinc	8	32	0.250	2.031	0.490					2.326	normal	nonpar

* - Distribution override for that constituent.
Fit to distribution is confirmed if G <= critical value.
Model type may not match distributional form when detection frequency < 50%.

Table 5

Summary Statistics and Prediction Limits

Constituent	Units	Detect	N	Mean	SD	alpha	Factor	Pred Limit	Type		Conf
Antimony	ug/L	0	32					2.0000	nonpar	***	0.99
Arsenic	ug/L	5	32					9.1300	nonpar		0.99
Barium	ug/L	32	32	193.3750	77.4701	0.0100	2.4906	386.3237	normal		
Beryllium	ug/L	0	30					1.0000	nonpar	***	0.98
Cadmium	ug/L	9	32					1.2500	nonpar		0.99
Chromium	ug/L	0	32					5.0000	nonpar	***	0.99
Cobalt	ug/L	5	32					4.2000	nonpar		0.99
Copper	ug/L	0	32					5.0000	nonpar	***	0.99
Lead	ug/L	1	32					0.5180	nonpar		0.99
Nickel	ug/L	1	32					6.3000	nonpar		0.99
Selenium	ug/L	0	32					5.0000	nonpar	***	0.99
Silver	ug/L	0	32					1.0000	nonpar	***	0.99
Thallium	ug/L	0	32					1.0000	nonpar	***	0.99
Vanadium	ug/L	0	32					5.0000	nonpar	***	0.99
Zinc	ug/L	8	32					185.0000	nonpar		0.99

Conf = confidence level for passing initial test or one verification resample at all downgradient wells for a single constituent (nonparametric test only).
* - Insufficient Data.
** - Calculated limit raised to Manual Reporting Limit.
*** - Nonparametric limit based on ND value.
For transformed data, mean and SD in transformed units and prediction limit in original units.
All sample sizes and statistics are based on outlier free data.
For nonparametric limits, median reporting limits are substituted for extreme reporting limit values.

Table 6

Dixon's Test Outliers
1% Significance Level

Constituent	Units	Well	Date	Result	ND Qualifier	Date Range	N	Critical Value
Beryllium	ug/L	MW-15R	04/26/2012	4.0000	< 4.0000	03/11/2010-10/15/2024	32	0.4502
Beryllium	ug/L	MW-15R	10/15/2024	4.0000	< 4.0000	03/11/2010-10/15/2024	32	0.4502

N = Total number of independent measurements in background at each well.
Date Range = Dates of the first and last measurements included in background at each well.
Critical Value depends on the significance level and on N-1 when the two most extreme values are tested or N for the most extreme value.

Table 8

Historical Downgradient Data for Constituent-Well Combinations that Failed the Current Statistical Evaluation or are in Verification Resampling Mode

Constituent	Units	Well	Date		Result		Pred. Limit
Barium	ug/L	MW-19	02/11/2008		675.0000	*	386.3237
Barium	ug/L	MW-19	04/30/2008		791.0000	*	386.3237
Barium	ug/L	MW-19	07/09/2008		600.0000	*	386.3237
Barium	ug/L	MW-19	09/11/2008		309.0000		386.3237
Barium	ug/L	MW-19	12/10/2008		599.0000	*	386.3237
Barium	ug/L	MW-19	03/03/2009		670.0000	*	386.3237
Barium	ug/L	MW-19	08/21/2009		546.0000	*	386.3237
Barium	ug/L	MW-19	03/11/2010		567.0000	*	386.3237
Barium	ug/L	MW-19	08/31/2010		490.0000	*	386.3237
Barium	ug/L	MW-19	02/16/2011		607.0000	*	386.3237
Barium	ug/L	MW-19	07/07/2011		4440.0000	*	386.3237
Barium	ug/L	MW-19	10/27/2011		639.0000	*	386.3237
Barium	ug/L	MW-19	04/26/2012		918.0000	*	386.3237
Barium	ug/L	MW-19	10/09/2012		990.0000	*	386.3237
Barium	ug/L	MW-19	02/20/2013		1110.0000	*	386.3237
Barium	ug/L	MW-19	05/15/2013		1020.0000	*	386.3237
Barium	ug/L	MW-19	10/03/2013		1010.0000	*	386.3237
Barium	ug/L	MW-19	04/22/2014		1170.0000	*	386.3237
Barium	ug/L	MW-19	10/14/2014		1010.0000	*	386.3237
Barium	ug/L	MW-19	05/12/2015		978.0000	*	386.3237
Barium	ug/L	MW-19	07/29/2015		860.0000	*	386.3237
Barium	ug/L	MW-19	02/15/2016		838.0000	*	386.3237
Barium	ug/L	MW-19	10/31/2016		792.0000	*	386.3237
Barium	ug/L	MW-19	03/27/2017		875.0000	*	386.3237
Barium	ug/L	MW-19	11/13/2017		978.0000	*	386.3237
Barium	ug/L	MW-19	06/06/2018		1120.0000	*	386.3237
Barium	ug/L	MW-19	11/26/2018		1040.0000	*	386.3237
Barium	ug/L	MW-19	03/18/2019		1160.0000	*	386.3237
Barium	ug/L	MW-19	12/02/2019		1030.0000	*	386.3237
Barium	ug/L	MW-19	03/30/2020		1040.0000	*	386.3237
Barium	ug/L	MW-19	11/17/2020		1150.0000	*	386.3237
Barium	ug/L	MW-19	05/06/2021		1150.0000	*	386.3237
Barium	ug/L	MW-19	10/07/2021		1140.0000	*	386.3237
Barium	ug/L	MW-19	04/06/2022		1300.0000	*	386.3237
Barium	ug/L	MW-19	08/23/2022		1110.0000	*	386.3237
Barium	ug/L	MW-19	03/08/2023		1270.0000	*	386.3237
Barium	ug/L	MW-19	09/13/2023		1240.0000	*	386.3237
Barium	ug/L	MW-19	05/29/2024		1070.0000	*	386.3237
Barium	ug/L	MW-19	10/15/2024		966.0000	*	386.3237
Cobalt	ug/L	MW-19	02/11/2008	ND	20.0000		4.2000
Cobalt	ug/L	MW-19	04/30/2008	ND	1.4000		4.2000
Cobalt	ug/L	MW-19	07/09/2008	ND	20.0000		4.2000
Cobalt	ug/L	MW-19	09/11/2008	ND	20.0000		4.2000
Cobalt	ug/L	MW-19	12/10/2008	ND	20.0000		4.2000
Cobalt	ug/L	MW-19	03/03/2009	ND	20.0000		4.2000
Cobalt	ug/L	MW-19	08/21/2009	ND	20.0000		4.2000
Cobalt	ug/L	MW-19	03/11/2010		2.5200		4.2000
Cobalt	ug/L	MW-19	08/31/2010	ND	1.5500		4.2000
Cobalt	ug/L	MW-19	02/16/2011		2.1400		4.2000
Cobalt	ug/L	MW-19	07/07/2011		27.1000	*	4.2000
Cobalt	ug/L	MW-19	10/27/2011		3.6700		4.2000
Cobalt	ug/L	MW-19	04/26/2012		23.5000	*	4.2000
Cobalt	ug/L	MW-19	10/09/2012		11.6000	*	4.2000
Cobalt	ug/L	MW-19	02/20/2013		22.5000	*	4.2000
Cobalt	ug/L	MW-19	10/03/2013		20.3000	*	4.2000
Cobalt	ug/L	MW-19	04/22/2014		18.4000	*	4.2000
Cobalt	ug/L	MW-19	10/14/2014		19.3000	*	4.2000
Cobalt	ug/L	MW-19	05/12/2015		12.7000	*	4.2000
Cobalt	ug/L	MW-19	07/29/2015		10.2000	*	4.2000
Cobalt	ug/L	MW-19	02/15/2016		9.8100	*	4.2000
Cobalt	ug/L	MW-19	10/31/2016		7.0800	*	4.2000
Cobalt	ug/L	MW-19	03/27/2017		6.3100	*	4.2000
Cobalt	ug/L	MW-19	11/13/2017		11.4000	*	4.2000
Cobalt	ug/L	MW-19	06/06/2018		15.8000	*	4.2000
Cobalt	ug/L	MW-19	11/26/2018		16.9000	*	4.2000
Cobalt	ug/L	MW-19	03/18/2019		13.3000	*	4.2000
Cobalt	ug/L	MW-19	12/02/2019		15.5000	*	4.2000
Cobalt	ug/L	MW-19	03/30/2020		14.2000	*	4.2000
Cobalt	ug/L	MW-19	11/17/2020		20.6000	*	4.2000
Cobalt	ug/L	MW-19	05/06/2021		20.1000	*	4.2000
Cobalt	ug/L	MW-19	10/07/2021		22.6000	*	4.2000

* - Significantly increased over background.
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*** - Manual exclusion.
ND = Not Detected, Result = detection limit.

Table 8

Historical Downgradient Data for Constituent-Well Combinations that Failed the Current Statistical Evaluation or are in Verification Resampling Mode

Constituent	Units	Well	Date		Result		Pred. Limit
Cobalt	ug/L	MW-19	04/06/2022		25.6000	*	4.2000
Cobalt	ug/L	MW-19	08/23/2022		21.3000	*	4.2000
Cobalt	ug/L	MW-19	03/08/2023		23.5500	*	4.2000
Cobalt	ug/L	MW-19	09/13/2023		23.8000	*	4.2000
Cobalt	ug/L	MW-19	05/29/2024		23.4000	*	4.2000
Cobalt	ug/L	MW-19	10/15/2024		19.5000	*	4.2000
Nickel	ug/L	MW-19	02/11/2008	ND	50.0000		6.3000
Nickel	ug/L	MW-19	04/30/2008	ND	4.6000		6.3000
Nickel	ug/L	MW-19	07/09/2008	ND	50.0000		6.3000
Nickel	ug/L	MW-19	09/11/2008	ND	50.0000		6.3000
Nickel	ug/L	MW-19	12/10/2008	ND	50.0000		6.3000
Nickel	ug/L	MW-19	03/03/2009	ND	50.0000		6.3000
Nickel	ug/L	MW-19	08/21/2009	ND	50.0000		6.3000
Nickel	ug/L	MW-19	03/11/2010	ND	50.0000		6.3000
Nickel	ug/L	MW-19	08/31/2010	ND	50.0000		6.3000
Nickel	ug/L	MW-19	02/16/2011	ND	50.0000		6.3000
Nickel	ug/L	MW-19	07/07/2011		127.0000	*	6.3000
Nickel	ug/L	MW-19	10/27/2011	ND	50.0000		6.3000
Nickel	ug/L	MW-19	04/26/2012		59.3000	*	6.3000
Nickel	ug/L	MW-19	10/09/2012		51.4000	*	6.3000
Nickel	ug/L	MW-19	02/20/2013	ND	50.0000		6.3000
Nickel	ug/L	MW-19	05/15/2013	ND	50.0000		6.3000
Nickel	ug/L	MW-19	10/03/2013		59.0000	*	6.3000
Nickel	ug/L	MW-19	04/22/2014		75.6000	*	6.3000
Nickel	ug/L	MW-19	10/14/2014		79.7000	*	6.3000
Nickel	ug/L	MW-19	05/12/2015		60.3000	*	6.3000
Nickel	ug/L	MW-19	07/29/2015		58.5000	*	6.3000
Nickel	ug/L	MW-19	02/15/2016		53.1000	*	6.3000
Nickel	ug/L	MW-19	10/31/2016		43.4000	*	6.3000
Nickel	ug/L	MW-19	03/27/2017		49.9000	*	6.3000
Nickel	ug/L	MW-19	11/13/2017		45.4000	*	6.3000
Nickel	ug/L	MW-19	06/06/2018		60.5000	*	6.3000
Nickel	ug/L	MW-19	11/26/2018		62.7000	*	6.3000
Nickel	ug/L	MW-19	03/18/2019		64.5000	*	6.3000
Nickel	ug/L	MW-19	12/02/2019		59.6000	*	6.3000
Nickel	ug/L	MW-19	03/30/2020		58.1000	*	6.3000
Nickel	ug/L	MW-19	11/17/2020		60.4000	*	6.3000
Nickel	ug/L	MW-19	05/06/2021		49.5000	*	6.3000
Nickel	ug/L	MW-19	10/07/2021		56.4000	*	6.3000
Nickel	ug/L	MW-19	04/06/2022		64.3000	*	6.3000
Nickel	ug/L	MW-19	08/23/2022		63.8000	*	6.3000
Nickel	ug/L	MW-19	03/08/2023		61.6500	*	6.3000
Nickel	ug/L	MW-19	09/13/2023		43.1000	*	6.3000
Nickel	ug/L	MW-19	05/29/2024		59.6000	*	6.3000
Nickel	ug/L	MW-19	10/15/2024		55.7000	*	6.3000
Arsenic	ug/L	MW-20	09/11/2008		6.6000		9.1300
Arsenic	ug/L	MW-20	12/10/2008		66.3000	*	9.1300
Arsenic	ug/L	MW-20	03/03/2009		80.4000	*	9.1300
Arsenic	ug/L	MW-20	08/21/2009		108.0000	*	9.1300
Arsenic	ug/L	MW-20	10/21/2009		95.0000	*	9.1300
Arsenic	ug/L	MW-20	03/11/2010		83.5000	*	9.1300
Arsenic	ug/L	MW-20	08/31/2010		20.0000	*	9.1300
Arsenic	ug/L	MW-20	02/16/2011		136.0000	*	9.1300
Arsenic	ug/L	MW-20	10/27/2011		92.6000	*	9.1300
Arsenic	ug/L	MW-20	04/26/2012		85.3000	*	9.1300
Arsenic	ug/L	MW-20	10/09/2012		49.1000	*	9.1300
Arsenic	ug/L	MW-20	02/20/2013		90.4000	*	9.1300
Arsenic	ug/L	MW-20	10/03/2013		153.0000	*	9.1300
Arsenic	ug/L	MW-20	04/22/2014		111.0000	*	9.1300
Arsenic	ug/L	MW-20	10/14/2014		140.0000	*	9.1300
Arsenic	ug/L	MW-20	05/12/2015		97.3000	*	9.1300
Arsenic	ug/L	MW-20	07/29/2015		77.4000	*	9.1300
Arsenic	ug/L	MW-20	02/15/2016		62.8000	*	9.1300
Arsenic	ug/L	MW-20	10/31/2016		102.0000	*	9.1300
Arsenic	ug/L	MW-20	03/27/2017		61.0000	*	9.1300
Arsenic	ug/L	MW-20	11/13/2017		81.1000	*	9.1300
Arsenic	ug/L	MW-20	06/06/2018		66.4500	*	9.1300
Arsenic	ug/L	MW-20	11/27/2018		59.2000	*	9.1300
Arsenic	ug/L	MW-20	03/18/2019		43.3000	*	9.1300
Arsenic	ug/L	MW-20	12/02/2019		76.3000	*	9.1300
Arsenic	ug/L	MW-20	03/30/2020		56.4000	*	9.1300

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Table 8

Historical Downgradient Data for Constituent-Well Combinations that Failed the Current Statistical Evaluation or are in Verification Resampling Mode

Constituent	Units	Well	Date		Result		Pred. Limit
Arsenic	ug/L	MW-20	11/17/2020		63.7000	*	9.1300
Arsenic	ug/L	MW-20	05/06/2021		53.0000	*	9.1300
Arsenic	ug/L	MW-20	10/07/2021		75.8500	*	9.1300
Arsenic	ug/L	MW-20	04/06/2022		83.3000	*	9.1300
Arsenic	ug/L	MW-20	08/23/2022	ND	7.7800		9.1300
Arsenic	ug/L	MW-20	03/08/2023		81.3000	*	9.1300
Arsenic	ug/L	MW-20	09/13/2023		80.0000	*	9.1300
Arsenic	ug/L	MW-20	05/29/2024		112.5000	*	9.1300
Arsenic	ug/L	MW-20	10/15/2024		77.5000	*	9.1300
Barium	ug/L	MW-20	09/11/2008		646.0000	*	386.3237
Barium	ug/L	MW-20	12/10/2008		3940.0000	*	386.3237
Barium	ug/L	MW-20	03/03/2009		4460.0000	*	386.3237
Barium	ug/L	MW-20	08/21/2009		4150.0000	*	386.3237
Barium	ug/L	MW-20	10/21/2009		4270.0000	*	386.3237
Barium	ug/L	MW-20	03/11/2010		3760.0000	*	386.3237
Barium	ug/L	MW-20	08/31/2010		3880.0000	*	386.3237
Barium	ug/L	MW-20	02/16/2011		4350.0000	*	386.3237
Barium	ug/L	MW-20	10/27/2011		4770.0000	*	386.3237
Barium	ug/L	MW-20	04/26/2012		4920.0000	*	386.3237
Barium	ug/L	MW-20	10/09/2012		4320.0000	*	386.3237
Barium	ug/L	MW-20	02/20/2013		5540.0000	*	386.3237
Barium	ug/L	MW-20	10/03/2013		2730.0000	*	386.3237
Barium	ug/L	MW-20	04/22/2014		2950.0000	*	386.3237
Barium	ug/L	MW-20	10/14/2014		2400.0000	*	386.3237
Barium	ug/L	MW-20	05/12/2015		2430.0000	*	386.3237
Barium	ug/L	MW-20	07/29/2015		2290.0000	*	386.3237
Barium	ug/L	MW-20	02/15/2016		2660.0000	*	386.3237
Barium	ug/L	MW-20	10/31/2016		4200.0000	*	386.3237
Barium	ug/L	MW-20	03/27/2017		2190.0000	*	386.3237
Barium	ug/L	MW-20	11/13/2017		3290.0000	*	386.3237
Barium	ug/L	MW-20	06/06/2018		2400.0000	*	386.3237
Barium	ug/L	MW-20	11/27/2018		1930.0000	*	386.3237
Barium	ug/L	MW-20	03/18/2019		2740.0000	*	386.3237
Barium	ug/L	MW-20	12/02/2019		2960.0000	*	386.3237
Barium	ug/L	MW-20	03/30/2020		1850.0000	*	386.3237
Barium	ug/L	MW-20	11/17/2020		3320.0000	*	386.3237
Barium	ug/L	MW-20	05/06/2021		2090.0000	*	386.3237
Barium	ug/L	MW-20	10/07/2021		2285.0000	*	386.3237
Barium	ug/L	MW-20	04/06/2022		2120.0000	*	386.3237
Barium	ug/L	MW-20	08/23/2022		2470.0000	*	386.3237
Barium	ug/L	MW-20	03/08/2023		3800.0000	*	386.3237
Barium	ug/L	MW-20	09/13/2023		3320.0000	*	386.3237
Barium	ug/L	MW-20	05/29/2024		1640.0000	*	386.3237
Barium	ug/L	MW-20	10/15/2024		2430.0000	*	386.3237
Cobalt	ug/L	MW-20	09/11/2008	ND	20.0000		4.2000
Cobalt	ug/L	MW-20	12/10/2008		23.3000	*	4.2000
Cobalt	ug/L	MW-20	03/03/2009		37.5000	*	4.2000
Cobalt	ug/L	MW-20	08/21/2009		30.6000	*	4.2000
Cobalt	ug/L	MW-20	10/21/2009		25.5000	*	4.2000
Cobalt	ug/L	MW-20	03/11/2010		20.6000	*	4.2000
Cobalt	ug/L	MW-20	08/31/2010		22.0000	*	4.2000
Cobalt	ug/L	MW-20	02/16/2011		25.7000	*	4.2000
Cobalt	ug/L	MW-20	10/27/2011		28.9000	*	4.2000
Cobalt	ug/L	MW-20	04/26/2012		29.2000	*	4.2000
Cobalt	ug/L	MW-20	10/09/2012		24.0000	*	4.2000
Cobalt	ug/L	MW-20	02/20/2013		38.1000	*	4.2000
Cobalt	ug/L	MW-20	10/03/2013		17.4000	*	4.2000
Cobalt	ug/L	MW-20	04/22/2014		13.0000	*	4.2000
Cobalt	ug/L	MW-20	10/14/2014		14.6000	*	4.2000
Cobalt	ug/L	MW-20	05/12/2015		12.7000	*	4.2000
Cobalt	ug/L	MW-20	07/29/2015		11.6000	*	4.2000
Cobalt	ug/L	MW-20	02/15/2016		9.8900	*	4.2000
Cobalt	ug/L	MW-20	10/31/2016		18.7000	*	4.2000
Cobalt	ug/L	MW-20	03/27/2017		12.3000	*	4.2000
Cobalt	ug/L	MW-20	11/13/2017		13.3000	*	4.2000
Cobalt	ug/L	MW-20	06/06/2018		11.8500	*	4.2000
Cobalt	ug/L	MW-20	11/27/2018		7.9600	*	4.2000
Cobalt	ug/L	MW-20	03/18/2019		10.4000	*	4.2000
Cobalt	ug/L	MW-20	12/02/2019		12.4000	*	4.2000
Cobalt	ug/L	MW-20	03/30/2020		7.9600	*	4.2000
Cobalt	ug/L	MW-20	11/17/2020		13.0000	*	4.2000

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Constituent	Units	Well	Date		Result		Pred. Limit
Cobalt	ug/L	MW-20	05/06/2021		8.4400	*	4.2000
Cobalt	ug/L	MW-20	10/07/2021		9.3150	*	4.2000
Cobalt	ug/L	MW-20	04/06/2022		9.1600	*	4.2000
Cobalt	ug/L	MW-20	08/23/2022		8.8200	*	4.2000
Cobalt	ug/L	MW-20	03/08/2023		15.8000	*	4.2000
Cobalt	ug/L	MW-20	09/13/2023		13.1000	*	4.2000
Cobalt	ug/L	MW-20	05/29/2024		8.0400	*	4.2000
Cobalt	ug/L	MW-20	10/15/2024		9.9000	*	4.2000
Nickel	ug/L	MW-20	09/11/2008	ND	50.0000		6.3000
Nickel	ug/L	MW-20	12/10/2008		112.0000	*	6.3000
Nickel	ug/L	MW-20	03/03/2009		140.0000	*	6.3000
Nickel	ug/L	MW-20	08/21/2009		63.2000	*	6.3000
Nickel	ug/L	MW-20	10/21/2009		127.0000	*	6.3000
Nickel	ug/L	MW-20	03/11/2010		98.1000	*	6.3000
Nickel	ug/L	MW-20	08/31/2010		111.0000	*	6.3000
Nickel	ug/L	MW-20	02/16/2011		128.0000	*	6.3000
Nickel	ug/L	MW-20	10/27/2011		137.0000	*	6.3000
Nickel	ug/L	MW-20	04/26/2012		147.0000	*	6.3000
Nickel	ug/L	MW-20	10/09/2012		111.0000	*	6.3000
Nickel	ug/L	MW-20	02/20/2013		158.0000	*	6.3000
Nickel	ug/L	MW-20	10/03/2013		76.8000	*	6.3000
Nickel	ug/L	MW-20	04/22/2014		54.1000	*	6.3000
Nickel	ug/L	MW-20	10/14/2014		60.4000	*	6.3000
Nickel	ug/L	MW-20	05/12/2015		20.1000	*	6.3000
Nickel	ug/L	MW-20	07/29/2015		28.8000	*	6.3000
Nickel	ug/L	MW-20	02/15/2016		45.6000	*	6.3000
Nickel	ug/L	MW-20	10/31/2016		83.8000	*	6.3000
Nickel	ug/L	MW-20	03/27/2017		30.9000	*	6.3000
Nickel	ug/L	MW-20	11/13/2017		56.1000	*	6.3000
Nickel	ug/L	MW-20	06/06/2018		34.6500	*	6.3000
Nickel	ug/L	MW-20	11/27/2018		16.2000	*	6.3000
Nickel	ug/L	MW-20	03/18/2019		46.0000	*	6.3000
Nickel	ug/L	MW-20	12/02/2019		58.2000	*	6.3000
Nickel	ug/L	MW-20	03/30/2020		12.0000	*	6.3000
Nickel	ug/L	MW-20	11/17/2020		71.6000	*	6.3000
Nickel	ug/L	MW-20	05/06/2021		20.5000	*	6.3000
Nickel	ug/L	MW-20	10/07/2021		42.1500	*	6.3000
Nickel	ug/L	MW-20	04/06/2022		31.2000	*	6.3000
Nickel	ug/L	MW-20	08/23/2022		65.0000	*	6.3000
Nickel	ug/L	MW-20	03/08/2023		78.7000	*	6.3000
Nickel	ug/L	MW-20	09/13/2023		48.7000	*	6.3000
Nickel	ug/L	MW-20	05/29/2024		14.4000	*	6.3000
Nickel	ug/L	MW-20	10/15/2024		50.8000	*	6.3000
Barium	ug/L	MW-21	12/23/2008		732.0000	*	386.3237
Barium	ug/L	MW-21	03/03/2009		782.0000	*	386.3237
Barium	ug/L	MW-21	08/21/2009		679.0000	*	386.3237
Barium	ug/L	MW-21	12/15/2009		630.0000	*	386.3237
Barium	ug/L	MW-21	03/11/2010		841.0000	*	386.3237
Barium	ug/L	MW-21	08/31/2010		801.0000	*	386.3237
Barium	ug/L	MW-21	02/16/2011		743.0000	*	386.3237
Barium	ug/L	MW-21	07/07/2011		699.0000	*	386.3237
Barium	ug/L	MW-21	10/27/2011		633.0000	*	386.3237
Barium	ug/L	MW-21	04/26/2012		1970.0000	*	386.3237
Barium	ug/L	MW-21	10/09/2012		945.0000	*	386.3237
Barium	ug/L	MW-21	02/20/2013		1080.0000	*	386.3237
Barium	ug/L	MW-21	10/03/2013		1390.0000	*	386.3237
Barium	ug/L	MW-21	04/22/2014		1110.0000	*	386.3237
Barium	ug/L	MW-21	05/12/2015		929.0000	*	386.3237
Barium	ug/L	MW-21	07/29/2015		978.0000	*	386.3237
Barium	ug/L	MW-21	02/15/2016		969.0000	*	386.3237
Barium	ug/L	MW-21	10/31/2016		1000.0000	*	386.3237
Barium	ug/L	MW-21	03/27/2017		969.0000	*	386.3237
Barium	ug/L	MW-21	11/13/2017		958.0000	*	386.3237
Barium	ug/L	MW-21	06/06/2018		957.0000	*	386.3237
Barium	ug/L	MW-21	11/27/2018		421.0000	*	386.3237
Barium	ug/L	MW-21	03/18/2019		236.0000		386.3237
Barium	ug/L	MW-21	12/02/2019		969.0000	*	386.3237
Barium	ug/L	MW-21	03/30/2020		1180.0000	*	386.3237
Barium	ug/L	MW-21	11/17/2020		894.0000	*	386.3237
Barium	ug/L	MW-21	05/06/2021		909.0000	*	386.3237
Barium	ug/L	MW-21	10/07/2021		733.0000	*	386.3237

*   - Significantly increased over background.
** - Detect at limit for 100% NDs in background (NPPL only).
*** - Manual exclusion.
ND = Not Detected, Result = detection limit.

Table 8

Historical Downgradient Data for Constituent-Well Combinations that Failed the Current Statistical Evaluation or are in Verification Resampling Mode

Constituent	Units	Well	Date		Result		Pred. Limit
Barium	ug/L	MW-21	04/06/2022		1050.0000	*	386.3237
Barium	ug/L	MW-21	08/23/2022		1095.0000	*	386.3237
Barium	ug/L	MW-21	03/08/2023		1210.0000	*	386.3237
Barium	ug/L	MW-21	09/13/2023		1240.0000	*	386.3237
Barium	ug/L	MW-21	05/29/2024		1110.0000	*	386.3237
Barium	ug/L	MW-21	10/15/2024		1170.0000	*	386.3237
Cobalt	ug/L	MW-21	12/23/2008	ND	20.0000		4.2000
Cobalt	ug/L	MW-21	03/03/2009	ND	20.0000		4.2000
Cobalt	ug/L	MW-21	08/21/2009	ND	20.0000		4.2000
Cobalt	ug/L	MW-21	12/15/2009	ND	20.0000		4.2000
Cobalt	ug/L	MW-21	03/11/2010		4.9900	*	4.2000
Cobalt	ug/L	MW-21	08/31/2010		10.0000	*	4.2000
Cobalt	ug/L	MW-21	02/16/2011		3.4000		4.2000
Cobalt	ug/L	MW-21	07/07/2011		7.1000	*	4.2000
Cobalt	ug/L	MW-21	10/27/2011	ND	1.5500		4.2000
Cobalt	ug/L	MW-21	04/26/2012		224.0000	*	4.2000
Cobalt	ug/L	MW-21	10/09/2012		13.3000	*	4.2000
Cobalt	ug/L	MW-21	02/20/2013		12.1000	*	4.2000
Cobalt	ug/L	MW-21	10/03/2013		42.9000	*	4.2000
Cobalt	ug/L	MW-21	04/22/2014		16.0000	*	4.2000
Cobalt	ug/L	MW-21	05/12/2015		1.6200		4.2000
Cobalt	ug/L	MW-21	07/29/2015		2.4300		4.2000
Cobalt	ug/L	MW-21	02/15/2016	ND	0.0740		4.2000
Cobalt	ug/L	MW-21	10/31/2016		6.5400	*	4.2000
Cobalt	ug/L	MW-21	03/27/2017	ND	0.3560		4.2000
Cobalt	ug/L	MW-21	11/13/2017		3.5800		4.2000
Cobalt	ug/L	MW-21	06/06/2018		2.4800		4.2000
Cobalt	ug/L	MW-21	11/27/2018		1.3300		4.2000
Cobalt	ug/L	MW-21	03/18/2019		3.3900		4.2000
Cobalt	ug/L	MW-21	12/02/2019		3.3000		4.2000
Cobalt	ug/L	MW-21	03/30/2020		1.7000		4.2000
Cobalt	ug/L	MW-21	11/17/2020		1.8600		4.2000
Cobalt	ug/L	MW-21	05/06/2021		1.6400		4.2000
Cobalt	ug/L	MW-21	10/07/2021		2.6800		4.2000
Cobalt	ug/L	MW-21	04/06/2022		4.6200	*	4.2000
Cobalt	ug/L	MW-21	08/23/2022		3.9400		4.2000
Cobalt	ug/L	MW-21	03/08/2023		5.7300	*	4.2000
Cobalt	ug/L	MW-21	09/13/2023		4.6800	*	4.2000
Cobalt	ug/L	MW-21	05/29/2024		7.1500	*	4.2000
Cobalt	ug/L	MW-21	10/15/2024		13.4000	*	4.2000
Copper	ug/L	MW-21	12/23/2008	ND	20.0000		5.0000
Copper	ug/L	MW-21	03/03/2009		21.1000	*	5.0000
Copper	ug/L	MW-21	08/21/2009	ND	20.0000		5.0000
Copper	ug/L	MW-21	12/15/2009	ND	20.0000		5.0000
Copper	ug/L	MW-21	03/11/2010	ND	20.0000		5.0000
Copper	ug/L	MW-21	08/31/2010	ND	20.0000		5.0000
Copper	ug/L	MW-21	02/16/2011	ND	20.0000		5.0000
Copper	ug/L	MW-21	07/07/2011	ND	20.0000		5.0000
Copper	ug/L	MW-21	10/27/2011	ND	20.0000		5.0000
Copper	ug/L	MW-21	04/26/2012		127.0000	*	5.0000
Copper	ug/L	MW-21	10/09/2012	ND	20.0000		5.0000
Copper	ug/L	MW-21	02/20/2013		20.3000	*	5.0000
Copper	ug/L	MW-21	10/03/2013	ND	20.0000		5.0000
Copper	ug/L	MW-21	04/22/2014	ND	7.7900		5.0000
Copper	ug/L	MW-21	05/12/2015		13.6000	*	5.0000
Copper	ug/L	MW-21	07/29/2015		5.0400	*	5.0000
Copper	ug/L	MW-21	02/15/2016		2.8500		5.0000
Copper	ug/L	MW-21	10/31/2016	ND	5.0000		5.0000
Copper	ug/L	MW-21	03/27/2017	ND	2.6200		5.0000
Copper	ug/L	MW-21	11/13/2017	ND	2.2700		5.0000
Copper	ug/L	MW-21	06/06/2018		2.6100		5.0000
Copper	ug/L	MW-21	11/27/2018		5.7700	*	5.0000
Copper	ug/L	MW-21	03/18/2019	ND	5.0000		5.0000
Copper	ug/L	MW-21	12/02/2019	ND	5.0000		5.0000
Copper	ug/L	MW-21	03/30/2020	ND	5.0000		5.0000
Copper	ug/L	MW-21	11/17/2020	ND	5.0000		5.0000
Copper	ug/L	MW-21	05/06/2021	ND	5.0000		5.0000
Copper	ug/L	MW-21	10/07/2021	ND	5.0000		5.0000
Copper	ug/L	MW-21	04/06/2022	ND	5.0000		5.0000
Copper	ug/L	MW-21	08/23/2022	ND	5.0000		5.0000
Copper	ug/L	MW-21	03/08/2023	ND	5.0000		5.0000

* - Significantly increased over background.
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*** - Manual exclusion.
ND = Not Detected, Result = detection limit.

Table 8

Historical Downgradient Data for Constituent-Well Combinations that Failed the Current Statistical Evaluation or are in Verification Resampling Mode

Constituent	Units	Well	Date		Result		Pred. Limit
Copper	ug/L	MW-21	09/13/2023	ND	5.0000		5.0000
Copper	ug/L	MW-21	05/29/2024	ND	5.0000		5.0000
Copper	ug/L	MW-21	10/15/2024		7.4000	*	5.0000
Nickel	ug/L	MW-21	12/23/2008	ND	50.0000		6.3000
Nickel	ug/L	MW-21	03/03/2009	ND	50.0000		6.3000
Nickel	ug/L	MW-21	08/21/2009	ND	50.0000		6.3000
Nickel	ug/L	MW-21	12/15/2009	ND	50.0000		6.3000
Nickel	ug/L	MW-21	03/11/2010	ND	50.0000		6.3000
Nickel	ug/L	MW-21	08/31/2010	ND	50.0000		6.3000
Nickel	ug/L	MW-21	02/16/2011	ND	50.0000		6.3000
Nickel	ug/L	MW-21	07/07/2011	ND	50.0000		6.3000
Nickel	ug/L	MW-21	10/27/2011	ND	50.0000		6.3000
Nickel	ug/L	MW-21	04/26/2012		204.0000	*	6.3000
Nickel	ug/L	MW-21	10/09/2012	ND	50.0000		6.3000
Nickel	ug/L	MW-21	02/20/2013	ND	50.0000		6.3000
Nickel	ug/L	MW-21	10/03/2013		72.9000	*	6.3000
Nickel	ug/L	MW-21	04/22/2014	ND	33.5000		6.3000
Nickel	ug/L	MW-21	05/12/2015		17.2000	*	6.3000
Nickel	ug/L	MW-21	07/29/2015		18.5000	*	6.3000
Nickel	ug/L	MW-21	02/15/2016		7.7700	*	6.3000
Nickel	ug/L	MW-21	10/31/2016		14.3000	*	6.3000
Nickel	ug/L	MW-21	03/27/2017		9.9800	*	6.3000
Nickel	ug/L	MW-21	11/13/2017		10.8000	*	6.3000
Nickel	ug/L	MW-21	06/06/2018		12.2000	*	6.3000
Nickel	ug/L	MW-21	11/27/2018		6.5500	*	6.3000
Nickel	ug/L	MW-21	03/18/2019		6.0900		6.3000
Nickel	ug/L	MW-21	12/02/2019	ND	3.4800		6.3000
Nickel	ug/L	MW-21	03/30/2020	ND	5.0000		6.3000
Nickel	ug/L	MW-21	11/17/2020	ND	3.1400		6.3000
Nickel	ug/L	MW-21	05/06/2021	ND	2.6800		6.3000
Nickel	ug/L	MW-21	10/07/2021	ND	4.3200		6.3000
Nickel	ug/L	MW-21	04/06/2022	ND	3.5600		6.3000
Nickel	ug/L	MW-21	08/23/2022	ND	3.5500		6.3000
Nickel	ug/L	MW-21	03/08/2023		8.5300	*	6.3000
Nickel	ug/L	MW-21	09/13/2023	ND	4.4400		6.3000
Nickel	ug/L	MW-21	05/29/2024		11.7000	*	6.3000
Nickel	ug/L	MW-21	10/15/2024		27.2000	*	6.3000
Arsenic	ug/L	MW-24	04/26/2012		58.1000	*	9.1300
Arsenic	ug/L	MW-24	10/14/2014		26.6000	*	9.1300
Arsenic	ug/L	MW-24	05/12/2015		2.6000		9.1300
Arsenic	ug/L	MW-24	07/29/2015	ND	2.0000		9.1300
Arsenic	ug/L	MW-24	02/15/2016		6.1900		9.1300
Arsenic	ug/L	MW-24	10/31/2016	ND	0.8280		9.1300
Arsenic	ug/L	MW-24	03/27/2017	ND	2.0000		9.1300
Arsenic	ug/L	MW-24	11/13/2017	ND	0.6180		9.1300
Arsenic	ug/L	MW-24	06/06/2018		1.5400		9.1300
Arsenic	ug/L	MW-24	11/26/2018	ND	0.6230		9.1300
Arsenic	ug/L	MW-24	03/18/2019	ND	2.0000		9.1300
Arsenic	ug/L	MW-24	12/02/2019	ND	2.0000		9.1300
Arsenic	ug/L	MW-24	03/30/2020	ND	0.9750		9.1300
Arsenic	ug/L	MW-24	11/17/2020		2.8600		9.1300
Arsenic	ug/L	MW-24	05/06/2021	ND	1.9800		9.1300
Arsenic	ug/L	MW-24	10/07/2021		2.0900		9.1300
Arsenic	ug/L	MW-24	04/06/2022	ND	0.8930		9.1300
Arsenic	ug/L	MW-24	08/23/2022	ND	1.1100		9.1300
Arsenic	ug/L	MW-24	09/29/2022	ND	1.3900		9.1300
Arsenic	ug/L	MW-24	03/08/2023	ND	1.2700		9.1300
Arsenic	ug/L	MW-24	09/13/2023	ND	1.4200		9.1300
Arsenic	ug/L	MW-24	05/29/2024	ND	0.7670		9.1300
Arsenic	ug/L	MW-24	10/15/2024		9.9000	*	9.1300
Barium	ug/L	MW-24	04/26/2012		595.0000	*	386.3237
Barium	ug/L	MW-24	07/29/2015		662.0000	*	386.3237
Barium	ug/L	MW-24	02/15/2016		688.0000	*	386.3237
Barium	ug/L	MW-24	10/31/2016		151.0000		386.3237
Barium	ug/L	MW-24	03/27/2017		172.0000		386.3237
Barium	ug/L	MW-24	11/13/2017		198.0000		386.3237
Barium	ug/L	MW-24	06/06/2018		259.0000		386.3237
Barium	ug/L	MW-24	11/26/2018		200.0000		386.3237
Barium	ug/L	MW-24	03/30/2020		761.0000	*	386.3237
Barium	ug/L	MW-24	11/17/2020		896.0000	*	386.3237
Barium	ug/L	MW-24	05/06/2021		735.0000	*	386.3237

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Table 8

Historical Downgradient Data for Constituent-Well Combinations that Failed the Current Statistical Evaluation or are in Verification Resampling Mode

Constituent	Units	Well	Date		Result		Pred. Limit
Barium	ug/L	MW-24	10/07/2021		785.0000	*	386.3237
Barium	ug/L	MW-24	04/06/2022		702.0000	*	386.3237
Barium	ug/L	MW-24	07/08/2022		679.0000	*	386.3237
Barium	ug/L	MW-24	08/23/2022		774.0000	*	386.3237
Barium	ug/L	MW-24	09/29/2022		834.0000	*	386.3237
Barium	ug/L	MW-24	03/08/2023		819.0000	*	386.3237
Barium	ug/L	MW-24	09/13/2023		712.0000	*	386.3237
Barium	ug/L	MW-24	05/29/2024		581.0000	*	386.3237
Barium	ug/L	MW-24	10/15/2024		700.0000	*	386.3237
Cobalt	ug/L	MW-24	04/26/2012		42.9000	*	4.2000
Cobalt	ug/L	MW-24	03/18/2019	ND	0.2620		4.2000
Cobalt	ug/L	MW-24	03/30/2020		0.8800		4.2000
Cobalt	ug/L	MW-24	04/06/2022		3.1300		4.2000
Cobalt	ug/L	MW-24	07/08/2022		3.6600		4.2000
Cobalt	ug/L	MW-24	08/23/2022		4.2300	*	4.2000
Cobalt	ug/L	MW-24	09/29/2022		4.1600		4.2000
Cobalt	ug/L	MW-24	03/08/2023		2.8300		4.2000
Cobalt	ug/L	MW-24	09/13/2023		3.2300		4.2000
Cobalt	ug/L	MW-24	05/29/2024		2.2200		4.2000
Cobalt	ug/L	MW-24	10/15/2024		4.3000	*	4.2000
Nickel	ug/L	MW-24	05/15/2013	ND	50.0000		6.3000
Nickel	ug/L	MW-24	07/29/2015		11.7000	*	6.3000
Nickel	ug/L	MW-24	02/15/2016		28.0000	*	6.3000
Nickel	ug/L	MW-24	10/31/2016	ND	3.5500		6.3000
Nickel	ug/L	MW-24	03/27/2017	ND	3.0200		6.3000
Nickel	ug/L	MW-24	11/13/2017	ND	3.6600		6.3000
Nickel	ug/L	MW-24	06/06/2018		5.5500		6.3000
Nickel	ug/L	MW-24	11/26/2018	ND	2.7200		6.3000
Nickel	ug/L	MW-24	04/06/2022		32.3000	*	6.3000
Nickel	ug/L	MW-24	07/08/2022		29.0000	*	6.3000
Nickel	ug/L	MW-24	08/23/2022		30.6000	*	6.3000
Nickel	ug/L	MW-24	09/29/2022		29.1000	*	6.3000
Nickel	ug/L	MW-24	03/08/2023		30.1000	*	6.3000
Nickel	ug/L	MW-24	09/13/2023		23.9000	*	6.3000
Nickel	ug/L	MW-24	05/29/2024		30.5000	*	6.3000
Nickel	ug/L	MW-24	10/15/2024		32.7000	*	6.3000
Barium	ug/L	MW-37R	11/27/2018		828.0000	*	386.3237
Barium	ug/L	MW-37R	03/18/2019		887.0000	*	386.3237
Barium	ug/L	MW-37R	06/05/2019		710.0000	*	386.3237
Barium	ug/L	MW-37R	08/22/2019		879.0000	*	386.3237
Barium	ug/L	MW-37R	12/02/2019		786.0000	*	386.3237
Barium	ug/L	MW-37R	02/28/2020		857.0000	*	386.3237
Barium	ug/L	MW-37R	03/30/2020		805.0000	*	386.3237
Barium	ug/L	MW-37R	11/17/2020		780.0000	*	386.3237
Barium	ug/L	MW-37R	05/06/2021		907.0000	*	386.3237
Barium	ug/L	MW-37R	10/07/2021		911.0000	*	386.3237
Barium	ug/L	MW-37R	04/06/2022		939.0000	*	386.3237
Barium	ug/L	MW-37R	03/08/2023		863.0000	*	386.3237
Barium	ug/L	MW-37R	09/13/2023		693.0000	*	386.3237
Barium	ug/L	MW-37R	05/29/2024		686.0000	*	386.3237
Barium	ug/L	MW-37R	10/15/2024		715.0000	*	386.3237
Lead	ug/L	MW-37R	11/27/2018	ND	0.5000		0.5180
Lead	ug/L	MW-37R	03/18/2019	ND	0.5000		0.5180
Lead	ug/L	MW-37R	06/05/2019	ND	0.5000		0.5180
Lead	ug/L	MW-37R	08/22/2019	ND	0.5000		0.5180
Lead	ug/L	MW-37R	12/02/2019		0.7190	*	0.5180
Lead	ug/L	MW-37R	02/28/2020	ND	0.5000		0.5180
Lead	ug/L	MW-37R	03/30/2020	ND	0.5000		0.5180
Lead	ug/L	MW-37R	11/17/2020		3.8000	*	0.5180
Lead	ug/L	MW-37R	05/06/2021		1.6850	*	0.5180
Lead	ug/L	MW-37R	10/07/2021		2.6700	*	0.5180
Lead	ug/L	MW-37R	04/06/2022		3.8000	*	0.5180
Lead	ug/L	MW-37R	03/08/2023		1.5900	*	0.5180
Lead	ug/L	MW-37R	09/13/2023		1.3500	*	0.5180
Lead	ug/L	MW-37R	05/29/2024		2.1600	*	0.5180
Lead	ug/L	MW-37R	10/15/2024	ND	4.0000		0.5180
Selenium	ug/L	MW-37R	11/27/2018		12.3000	*	5.0000
Selenium	ug/L	MW-37R	03/18/2019		8.0750	*	5.0000
Selenium	ug/L	MW-37R	06/05/2019		10.0000	*	5.0000
Selenium	ug/L	MW-37R	08/22/2019		6.3200	*	5.0000
Selenium	ug/L	MW-37R	12/02/2019		5.0400	*	5.0000

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Table 8

Historical Downgradient Data for Constituent-Well Combinations that Failed the Current Statistical Evaluation or are in Verification Resampling Mode

Constituent	Units	Well	Date		Result		Pred. Limit
Selenium	ug/L	MW-37R	02/28/2020	ND	4.5800		5.0000
Selenium	ug/L	MW-37R	03/30/2020		5.0100	*	5.0000
Selenium	ug/L	MW-37R	11/17/2020		17.9000	*	5.0000
Selenium	ug/L	MW-37R	05/06/2021		12.9500	*	5.0000
Selenium	ug/L	MW-37R	10/07/2021		11.9000	*	5.0000
Selenium	ug/L	MW-37R	04/06/2022		14.3000	*	5.0000
Selenium	ug/L	MW-37R	03/08/2023		20.1000	*	5.0000
Selenium	ug/L	MW-37R	09/13/2023		55.8000	*	5.0000
Selenium	ug/L	MW-37R	05/29/2024		40.5000	*	5.0000
Selenium	ug/L	MW-37R	10/15/2024		15.8000	*	5.0000
Arsenic	ug/L	MW-38R	11/27/2018	ND	2.0000		9.1300
Arsenic	ug/L	MW-38R	03/18/2019	ND	2.0000		9.1300
Arsenic	ug/L	MW-38R	06/05/2019		1.3900		9.1300
Arsenic	ug/L	MW-38R	08/22/2019	ND	2.0000		9.1300
Arsenic	ug/L	MW-38R	12/02/2019	ND	0.8420		9.1300
Arsenic	ug/L	MW-38R	03/30/2020	ND	2.0000		9.1300
Arsenic	ug/L	MW-38R	11/17/2020	ND	2.0000		9.1300
Arsenic	ug/L	MW-38R	05/06/2021	ND	2.0000		9.1300
Arsenic	ug/L	MW-38R	04/06/2022	ND	2.0000		9.1300
Arsenic	ug/L	MW-38R	08/23/2022	ND	2.0000		9.1300
Arsenic	ug/L	MW-38R	03/08/2023	ND	2.0000		9.1300
Arsenic	ug/L	MW-38R	09/13/2023	ND	2.0000		9.1300
Arsenic	ug/L	MW-38R	05/29/2024	ND	0.5430		9.1300
Arsenic	ug/L	MW-38R	10/15/2024		15.7000	*	9.1300
Cadmium	ug/L	MW-38R	11/27/2018	ND	0.1320		1.2500
Cadmium	ug/L	MW-38R	03/18/2019	ND	0.1510		1.2500
Cadmium	ug/L	MW-38R	06/05/2019	ND	0.2750		1.2500
Cadmium	ug/L	MW-38R	08/22/2019	ND	0.3980		1.2500
Cadmium	ug/L	MW-38R	12/02/2019		0.3210		1.2500
Cadmium	ug/L	MW-38R	02/28/2020		0.3910		1.2500
Cadmium	ug/L	MW-38R	03/30/2020		0.5250		1.2500
Cadmium	ug/L	MW-38R	11/17/2020		0.2200		1.2500
Cadmium	ug/L	MW-38R	05/06/2021		0.2760		1.2500
Cadmium	ug/L	MW-38R	04/06/2022		0.1970		1.2500
Cadmium	ug/L	MW-38R	08/23/2022		0.1610		1.2500
Cadmium	ug/L	MW-38R	03/08/2023	ND	0.0780		1.2500
Cadmium	ug/L	MW-38R	09/13/2023	ND	0.2000		1.2500
Cadmium	ug/L	MW-38R	05/29/2024	ND	0.1250		1.2500
Cadmium	ug/L	MW-38R	10/15/2024		1.9000	*	1.2500
Chromium	ug/L	MW-38R	11/27/2018	ND	5.0000		5.0000
Chromium	ug/L	MW-38R	03/18/2019	ND	5.0000		5.0000
Chromium	ug/L	MW-38R	06/05/2019	ND	5.0000		5.0000
Chromium	ug/L	MW-38R	08/22/2019		14.6000	*	5.0000
Chromium	ug/L	MW-38R	12/02/2019	ND	5.0000		5.0000
Chromium	ug/L	MW-38R	03/30/2020	ND	5.0000		5.0000
Chromium	ug/L	MW-38R	11/17/2020	ND	5.0000		5.0000
Chromium	ug/L	MW-38R	05/06/2021	ND	5.0000		5.0000
Chromium	ug/L	MW-38R	04/06/2022	ND	5.0000		5.0000
Chromium	ug/L	MW-38R	08/23/2022	ND	5.0000		5.0000
Chromium	ug/L	MW-38R	03/08/2023	ND	4.5700		5.0000
Chromium	ug/L	MW-38R	09/13/2023	ND	3.7500		5.0000
Chromium	ug/L	MW-38R	05/29/2024		177.0000	*	5.0000
Chromium	ug/L	MW-38R	10/15/2024		218.0000	*	5.0000
Cobalt	ug/L	MW-38R	11/27/2018	ND	0.4290		4.2000
Cobalt	ug/L	MW-38R	03/18/2019	ND	0.4700		4.2000
Cobalt	ug/L	MW-38R	06/05/2019		1.3600		4.2000
Cobalt	ug/L	MW-38R	08/22/2019		1.1300		4.2000
Cobalt	ug/L	MW-38R	12/02/2019		3.8400		4.2000
Cobalt	ug/L	MW-38R	02/28/2020		2.6200		4.2000
Cobalt	ug/L	MW-38R	03/30/2020		3.1700		4.2000
Cobalt	ug/L	MW-38R	11/17/2020	ND	0.2130		4.2000
Cobalt	ug/L	MW-38R	05/06/2021		0.5010		4.2000
Cobalt	ug/L	MW-38R	04/06/2022	ND	0.4770		4.2000
Cobalt	ug/L	MW-38R	08/23/2022	ND	0.2610		4.2000
Cobalt	ug/L	MW-38R	03/08/2023	ND	0.3230		4.2000
Cobalt	ug/L	MW-38R	09/13/2023	ND	0.1850		4.2000
Cobalt	ug/L	MW-38R	05/29/2024		2.8700		4.2000
Cobalt	ug/L	MW-38R	10/15/2024		16.8000	*	4.2000
Copper	ug/L	MW-38R	11/27/2018	ND	5.0000		5.0000
Copper	ug/L	MW-38R	03/18/2019	ND	5.0000		5.0000
Copper	ug/L	MW-38R	06/05/2019	ND	1.9200		5.0000

* - Significantly increased over background.
** - Detect at limit for 100% NDs in background (NPPL only).
*** - Manual exclusion.
ND = Not Detected, Result = detection limit.

Table 8

Historical Downgradient Data for Constituent-Well Combinations that Failed the Current Statistical Evaluation or are in Verification Resampling Mode

Constituent	Units	Well	Date		Result		Pred. Limit
Copper	ug/L	MW-38R	08/22/2019	ND	5.0000		5.0000
Copper	ug/L	MW-38R	12/02/2019	ND	5.0000		5.0000
Copper	ug/L	MW-38R	03/30/2020	ND	5.0000		5.0000
Copper	ug/L	MW-38R	11/17/2020	ND	1.9000		5.0000
Copper	ug/L	MW-38R	05/06/2021	ND	2.4500		5.0000
Copper	ug/L	MW-38R	04/06/2022	ND	2.0100		5.0000
Copper	ug/L	MW-38R	08/23/2022	ND	5.0000		5.0000
Copper	ug/L	MW-38R	03/08/2023	ND	5.0000		5.0000
Copper	ug/L	MW-38R	09/13/2023	ND	5.0000		5.0000
Copper	ug/L	MW-38R	05/29/2024		5.8800	*	5.0000
Copper	ug/L	MW-38R	10/15/2024		23.9000	*	5.0000
Lead	ug/L	MW-38R	11/27/2018	ND	0.5000		0.5180
Lead	ug/L	MW-38R	03/18/2019	ND	0.5000		0.5180
Lead	ug/L	MW-38R	06/05/2019	ND	0.5000		0.5180
Lead	ug/L	MW-38R	08/22/2019	ND	0.2860		0.5180
Lead	ug/L	MW-38R	12/02/2019	ND	0.2780		0.5180
Lead	ug/L	MW-38R	03/30/2020	ND	0.4030		0.5180
Lead	ug/L	MW-38R	11/17/2020	ND	0.5000		0.5180
Lead	ug/L	MW-38R	05/06/2021		0.6010	*	0.5180
Lead	ug/L	MW-38R	04/06/2022		0.6840	*	0.5180
Lead	ug/L	MW-38R	08/23/2022	ND	0.3630		0.5180
Lead	ug/L	MW-38R	03/08/2023	ND	0.5000		0.5180
Lead	ug/L	MW-38R	09/13/2023	ND	0.5000		0.5180
Lead	ug/L	MW-38R	05/29/2024	ND	0.3140		0.5180
Lead	ug/L	MW-38R	10/15/2024		14.5000	*	0.5180
Nickel	ug/L	MW-38R	11/27/2018		6.2500		6.3000
Nickel	ug/L	MW-38R	03/18/2019	ND	3.9800		6.3000
Nickel	ug/L	MW-38R	06/05/2019		11.0000	*	6.3000
Nickel	ug/L	MW-38R	08/22/2019		10.8000	*	6.3000
Nickel	ug/L	MW-38R	12/02/2019		10.8000	*	6.3000
Nickel	ug/L	MW-38R	02/28/2020		10.5000	*	6.3000
Nickel	ug/L	MW-38R	03/30/2020		8.9900	*	6.3000
Nickel	ug/L	MW-38R	11/17/2020		8.1100	*	6.3000
Nickel	ug/L	MW-38R	05/06/2021		7.3900	*	6.3000
Nickel	ug/L	MW-38R	04/06/2022	ND	2.7700		6.3000
Nickel	ug/L	MW-38R	08/23/2022	ND	4.4600		6.3000
Nickel	ug/L	MW-38R	03/08/2023		5.6900		6.3000
Nickel	ug/L	MW-38R	09/13/2023	ND	4.0900		6.3000
Nickel	ug/L	MW-38R	05/29/2024		135.0000	*	6.3000
Nickel	ug/L	MW-38R	10/15/2024		145.0000	*	6.3000
Selenium	ug/L	MW-38R	11/27/2018	ND	5.0000		5.0000
Selenium	ug/L	MW-38R	03/18/2019	ND	5.0000		5.0000
Selenium	ug/L	MW-38R	06/05/2019	ND	2.5000		5.0000
Selenium	ug/L	MW-38R	08/22/2019	ND	5.0000		5.0000
Selenium	ug/L	MW-38R	12/02/2019	ND	5.0000		5.0000
Selenium	ug/L	MW-38R	03/30/2020	ND	5.0000		5.0000
Selenium	ug/L	MW-38R	11/17/2020	ND	5.0000		5.0000
Selenium	ug/L	MW-38R	05/06/2021	ND	1.7700		5.0000
Selenium	ug/L	MW-38R	04/06/2022		13.6000	*	5.0000
Selenium	ug/L	MW-38R	08/23/2022		10.3000	*	5.0000
Selenium	ug/L	MW-38R	03/08/2023		29.1000	*	5.0000
Selenium	ug/L	MW-38R	09/13/2023		26.4000	*	5.0000
Selenium	ug/L	MW-38R	05/29/2024		43.2000	*	5.0000
Selenium	ug/L	MW-38R	10/15/2024		7.8000	*	5.0000
Vanadium	ug/L	MW-38R	11/27/2018	ND	1.0700		5.0000
Vanadium	ug/L	MW-38R	03/18/2019	ND	0.9310		5.0000
Vanadium	ug/L	MW-38R	06/05/2019	ND	5.0000		5.0000
Vanadium	ug/L	MW-38R	08/22/2019	ND	1.3100		5.0000
Vanadium	ug/L	MW-38R	12/02/2019	ND	0.9950		5.0000
Vanadium	ug/L	MW-38R	03/30/2020	ND	1.4800		5.0000
Vanadium	ug/L	MW-38R	11/17/2020	ND	1.5400		5.0000
Vanadium	ug/L	MW-38R	05/06/2021	ND	2.5200		5.0000
Vanadium	ug/L	MW-38R	04/06/2022	ND	2.7600		5.0000
Vanadium	ug/L	MW-38R	08/23/2022	ND	1.3700		5.0000
Vanadium	ug/L	MW-38R	03/08/2023	ND	5.0000		5.0000
Vanadium	ug/L	MW-38R	09/13/2023	ND	5.0000		5.0000
Vanadium	ug/L	MW-38R	05/29/2024	ND	2.2300		5.0000
Vanadium	ug/L	MW-38R	10/15/2024		59.3000	*	5.0000
Selenium	ug/L	MW-39	08/21/2009		83.7000	*	5.0000
Selenium	ug/L	MW-39	12/15/2009		164.0000	*	5.0000
Selenium	ug/L	MW-39	02/18/2010		78.4000	*	5.0000

*   - Significantly increased over background.
** - Detect at limit for 100% NDs in background (NPPL only).
*** - Manual exclusion.
ND = Not Detected, Result = detection limit.

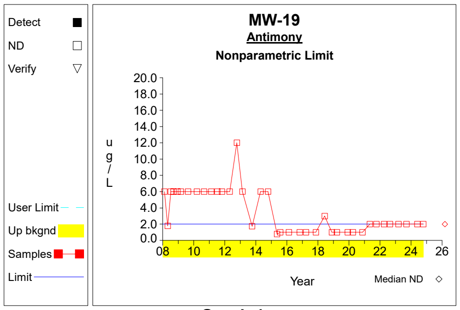
Table 8

Historical Downgradient Data for Constituent-Well Combinations that Failed the Current Statistical Evaluation or are in Verification Resampling Mode

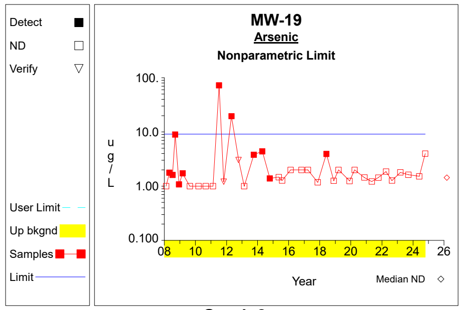
Constituent	Units	Well	Date		Result		Pred. Limit
Selenium	ug/L	MW-39	03/11/2010		80.9500	*	5.0000
Selenium	ug/L	MW-39	05/27/2010		73.7000	*	5.0000
Selenium	ug/L	MW-39	08/31/2010		82.4000	*	5.0000
Selenium	ug/L	MW-39	11/04/2010		72.1000	*	5.0000
Selenium	ug/L	MW-39	02/16/2011		74.3000	*	5.0000
Selenium	ug/L	MW-39	07/07/2011		81.3000	*	5.0000
Selenium	ug/L	MW-39	10/27/2011		97.3000	*	5.0000
Selenium	ug/L	MW-39	04/26/2012		5.9000	*	5.0000
Selenium	ug/L	MW-39	10/09/2012		85.8000	*	5.0000
Selenium	ug/L	MW-39	02/20/2013		42.4000	*	5.0000
Selenium	ug/L	MW-39	10/03/2013		57.6000	*	5.0000
Selenium	ug/L	MW-39	04/22/2014		71.3000	*	5.0000
Selenium	ug/L	MW-39	10/14/2014		66.8000	*	5.0000
Selenium	ug/L	MW-39	05/12/2015		73.2000	*	5.0000
Selenium	ug/L	MW-39	07/29/2015		73.4000	*	5.0000
Selenium	ug/L	MW-39	02/15/2016		74.9000	*	5.0000
Selenium	ug/L	MW-39	10/31/2016		70.4000	*	5.0000
Selenium	ug/L	MW-39	03/27/2017		77.2000	*	5.0000
Selenium	ug/L	MW-39	11/13/2017		71.8500	*	5.0000
Selenium	ug/L	MW-39	06/06/2018		74.5000	*	5.0000
Selenium	ug/L	MW-39	11/27/2018		76.0000	*	5.0000
Selenium	ug/L	MW-39	03/18/2019		76.4000	*	5.0000
Selenium	ug/L	MW-39	12/02/2019		74.8000	*	5.0000
Selenium	ug/L	MW-39	03/30/2020		73.1000	*	5.0000
Selenium	ug/L	MW-39	11/17/2020		71.3000	*	5.0000
Selenium	ug/L	MW-39	05/06/2021		80.1000	*	5.0000
Selenium	ug/L	MW-39	10/07/2021		74.6000	*	5.0000
Selenium	ug/L	MW-39	04/06/2022		79.1000	*	5.0000
Selenium	ug/L	MW-39	08/23/2022		79.9000	*	5.0000
Selenium	ug/L	MW-39	03/08/2023		79.4000	*	5.0000
Selenium	ug/L	MW-39	09/13/2023		75.0500	*	5.0000
Selenium	ug/L	MW-39	05/29/2024		71.4000	*	5.0000
Selenium	ug/L	MW-39	10/15/2024		63.6000	*	5.0000

*   - Significantly increased over background.
** - Detect at limit for 100% NDs in background (NPPL only).
*** - Manual exclusion.
ND = Not Detected, Result = detection limit.

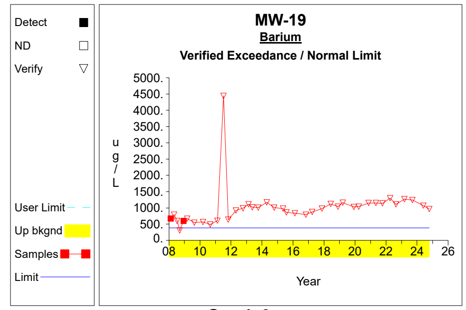
Up vs. Down Prediction Limits



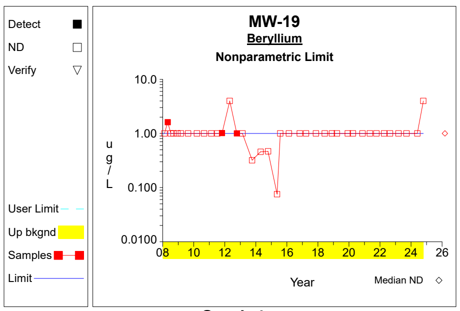
Graph 1



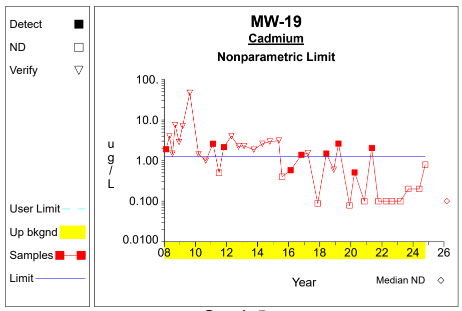
Graph 2



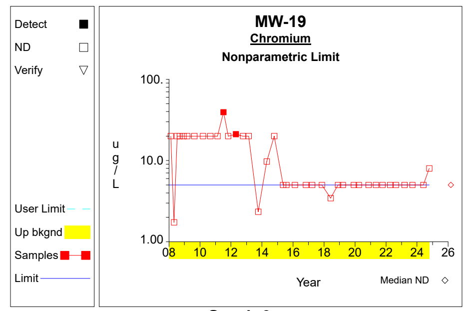
Graph 3



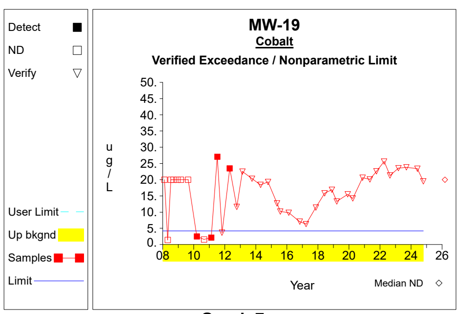
Graph 4



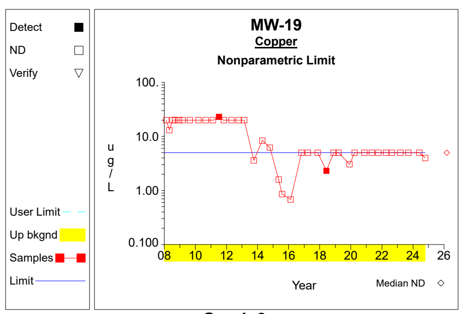
Graph 5



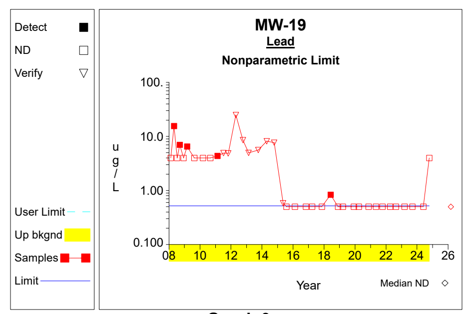
Graph 6



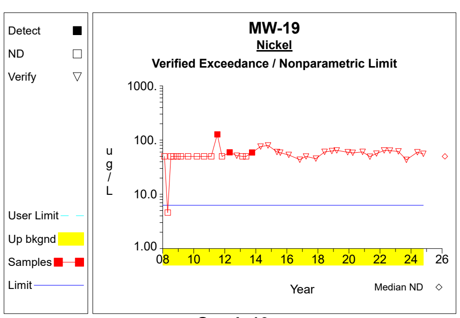
Graph 7



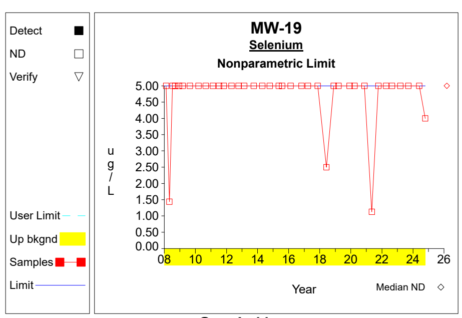
Graph 8



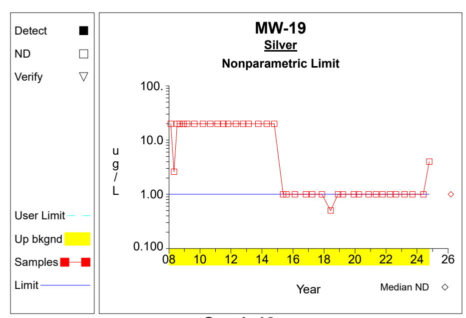
Graph 9



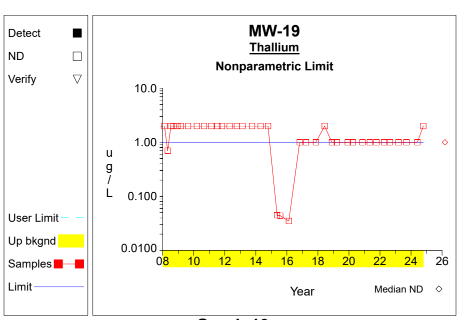
Graph 10



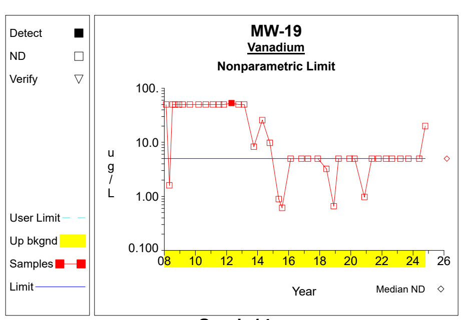
Graph 11



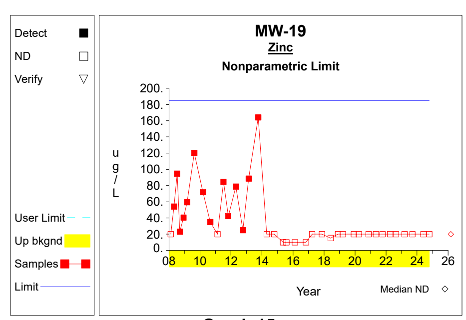
Graph 12



Graph 13

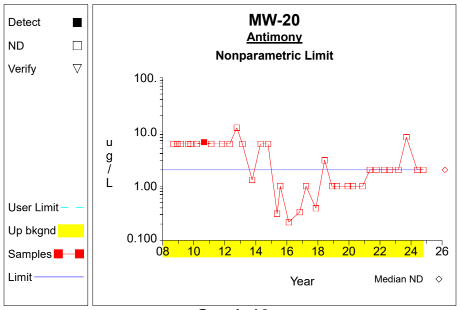


Graph 14

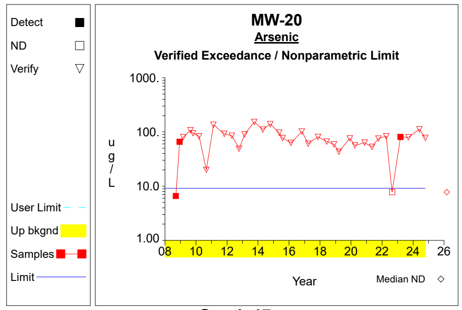


Graph 15

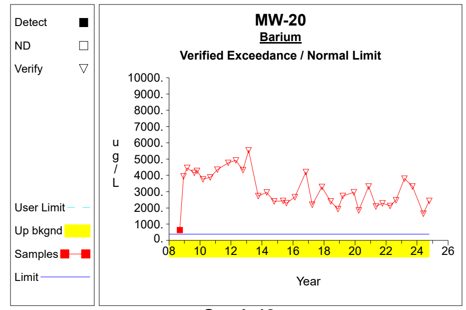
Up vs. Down Prediction Limits



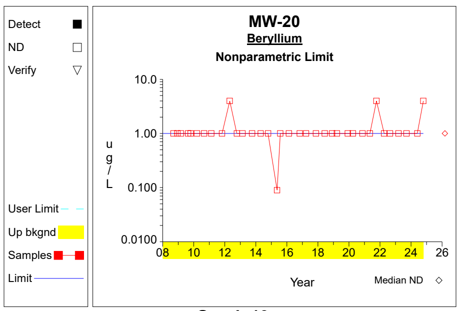
Graph 16



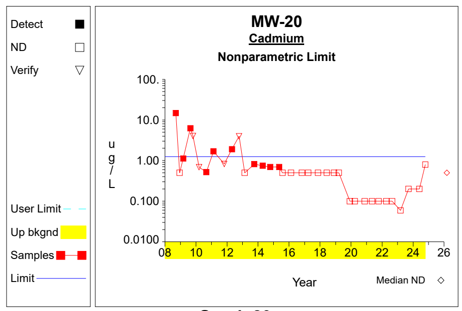
Graph 17



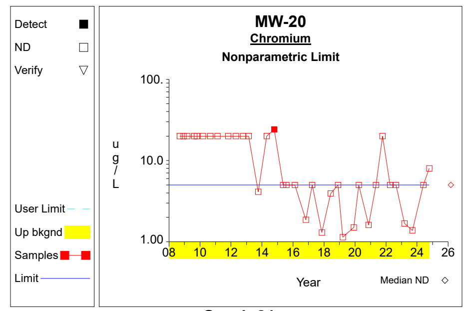
Graph 18



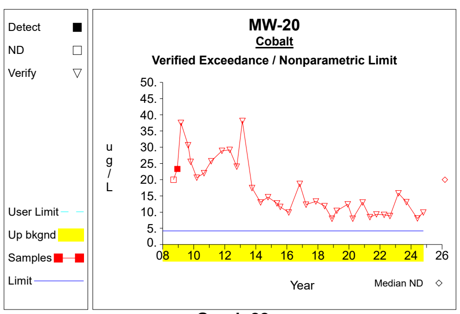
Graph 19



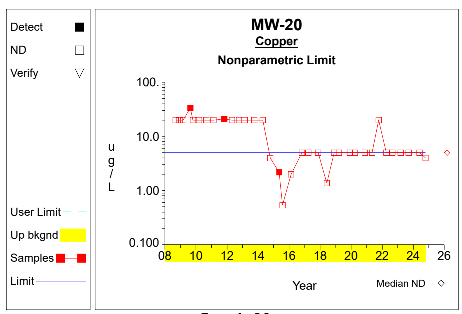
Graph 20



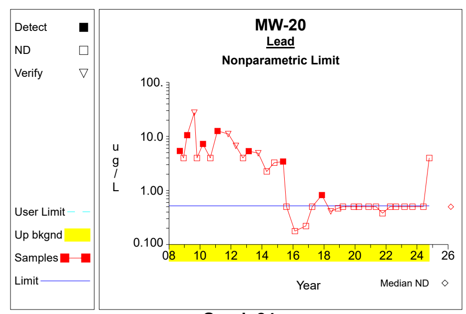
Graph 21



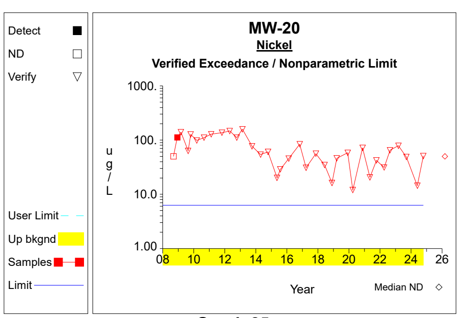
Graph 22



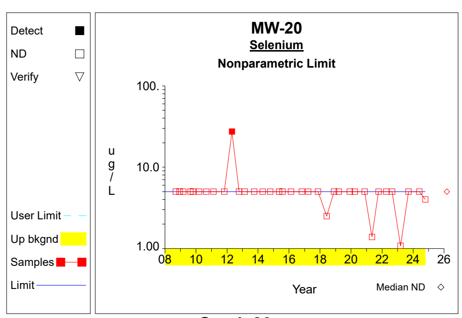
Graph 23



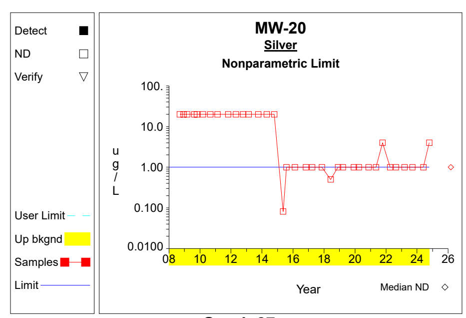
Graph 24



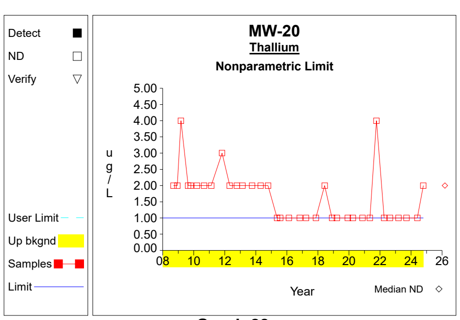
Graph 25



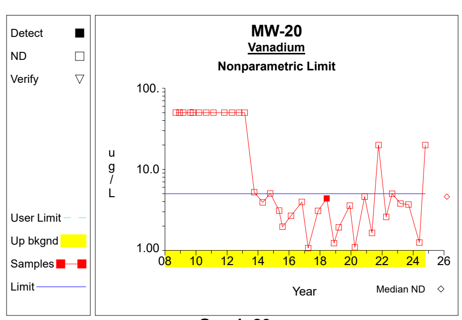
Graph 26



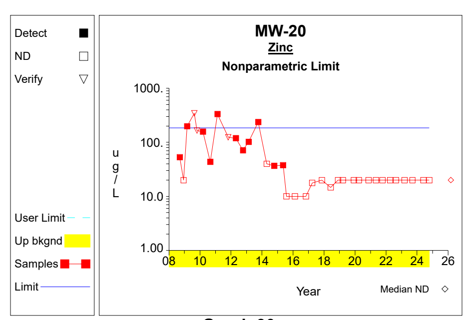
Graph 27



Graph 28

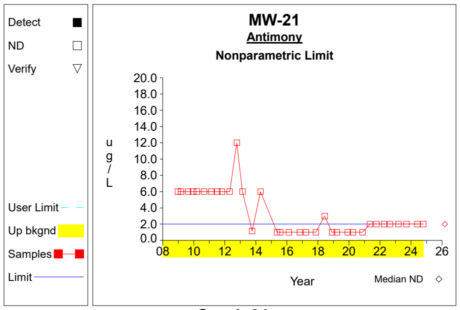


Graph 29

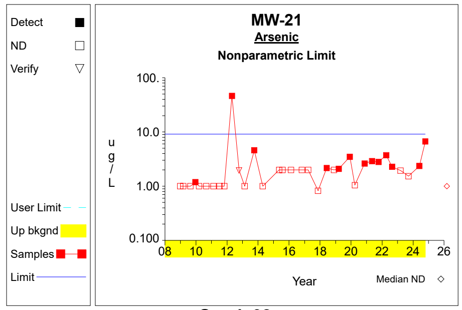


Graph 30

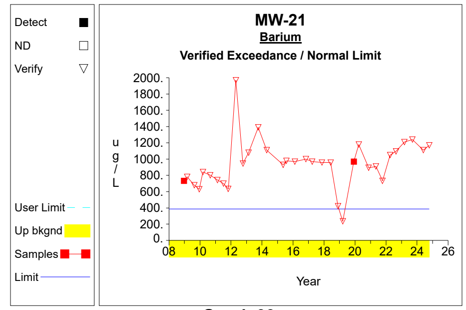
Up vs. Down Prediction Limits



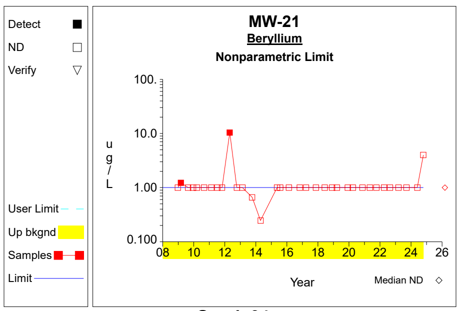
Graph 31



Graph 32



Graph 33



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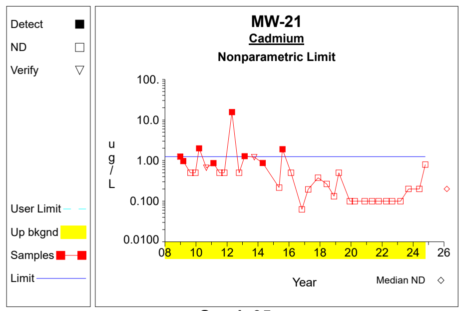

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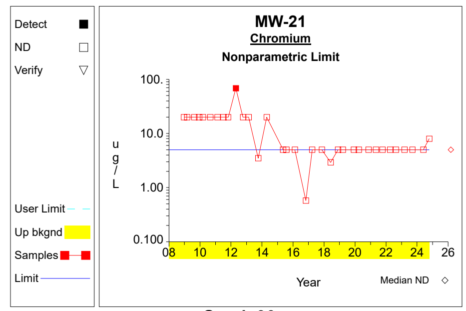

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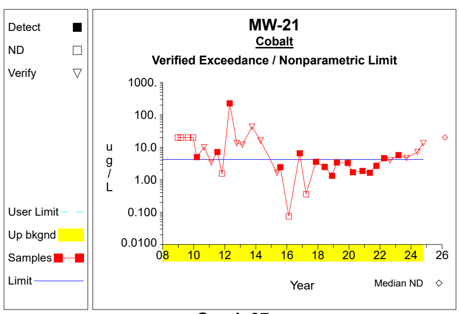

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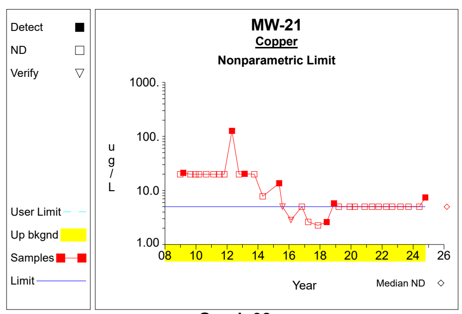

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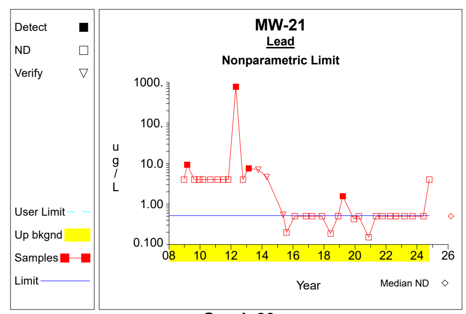

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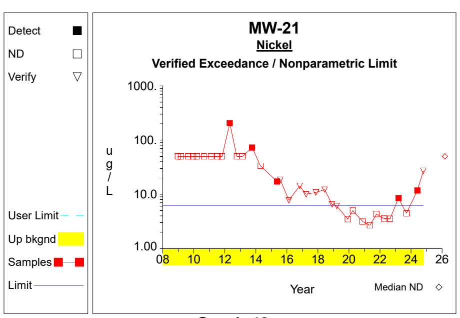

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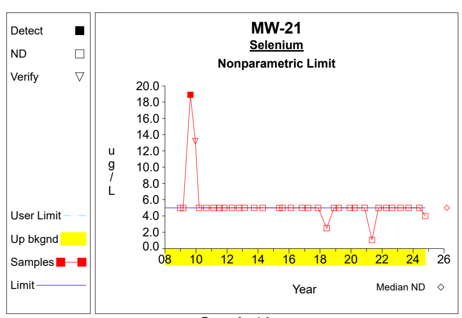

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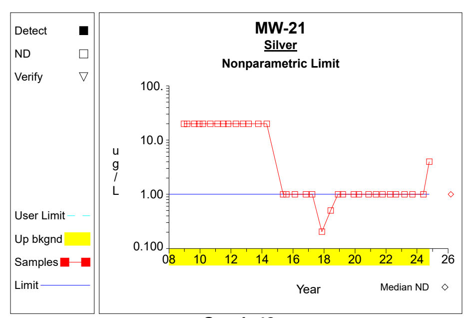

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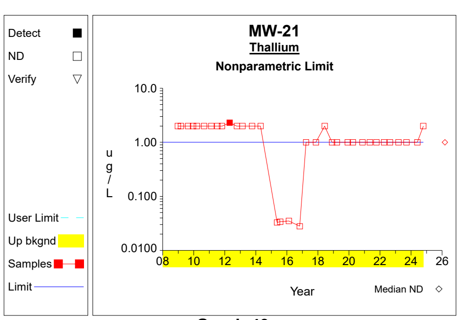

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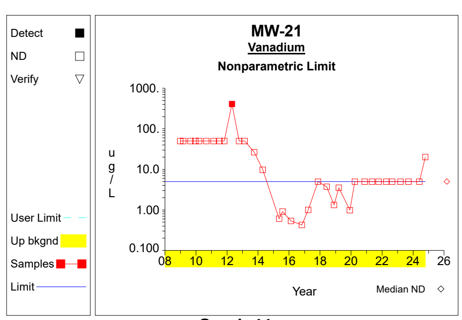

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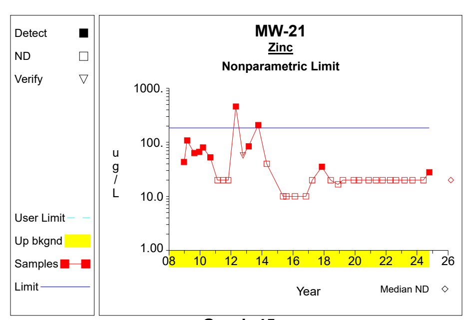

Graph 45

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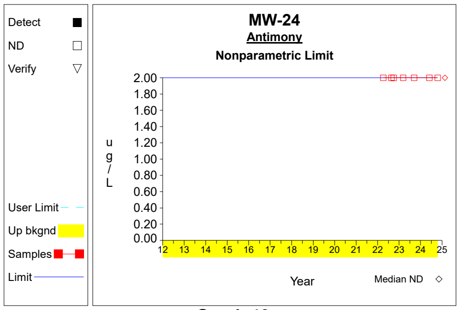
Up vs. Down Prediction Limits



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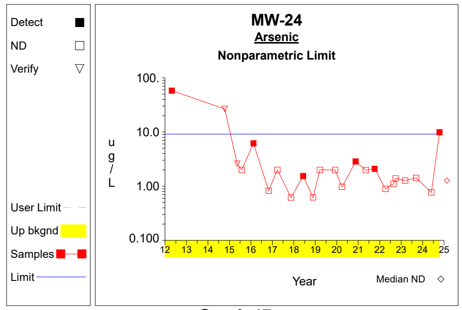
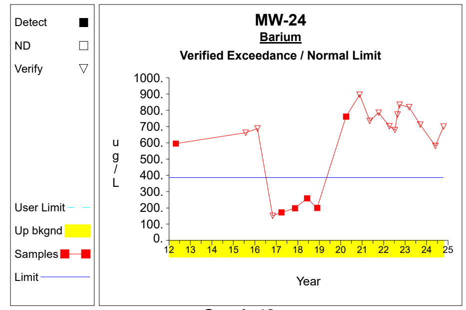
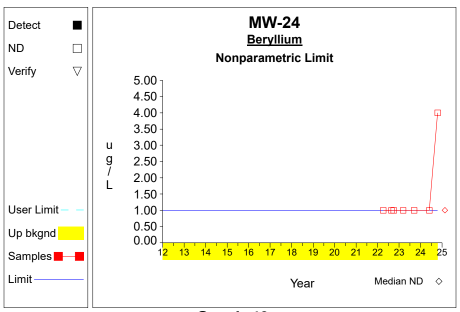


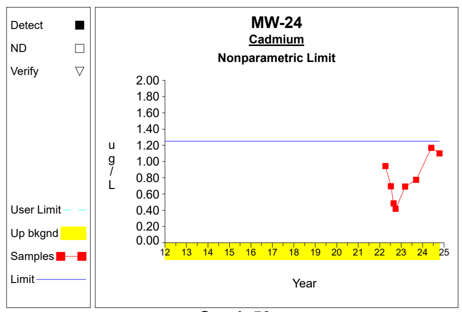
Graph 47



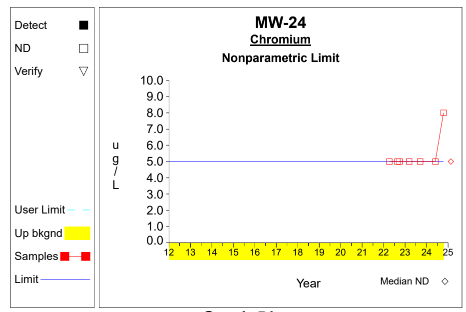
Graph 48



Graph 49



Graph 50



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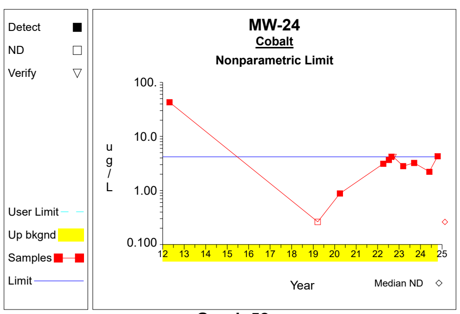

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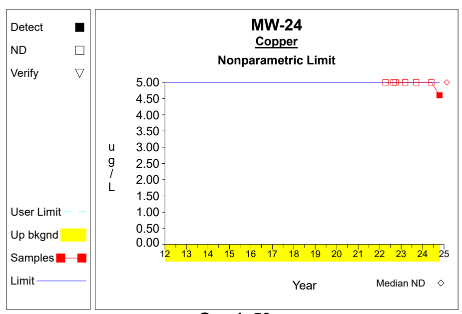

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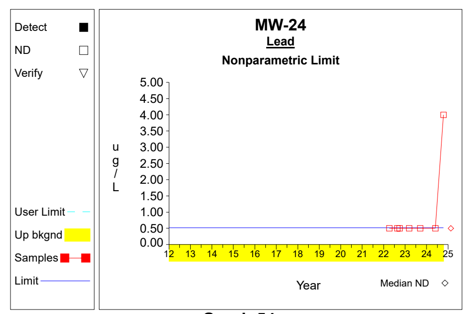

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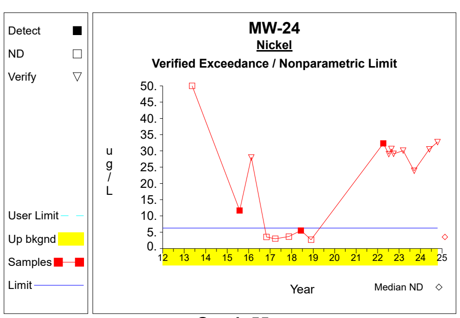

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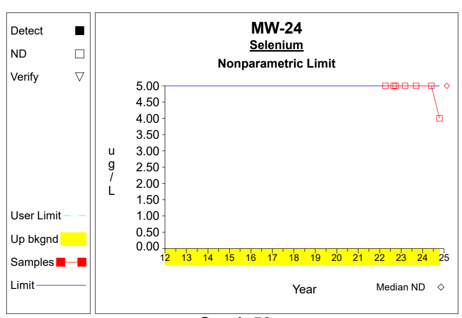

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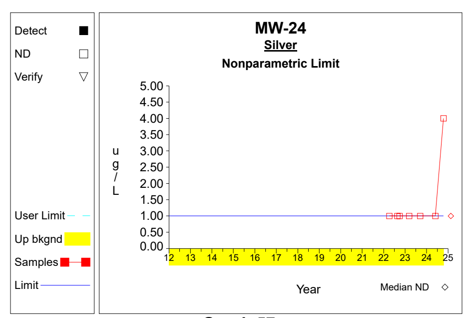

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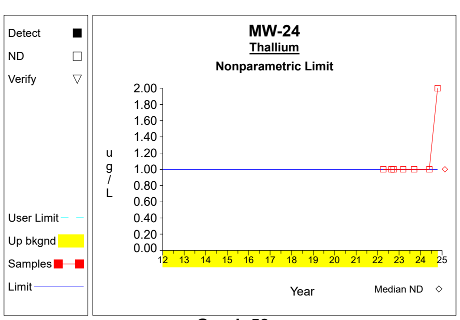

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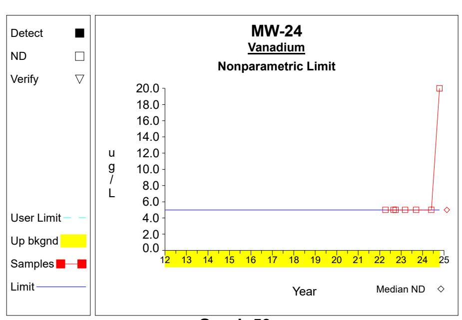
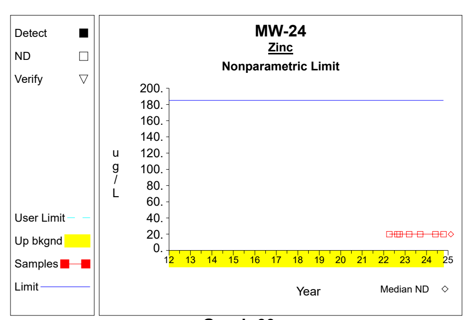


Graph 59



Graph 60

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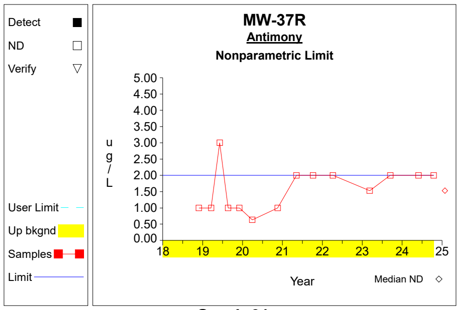
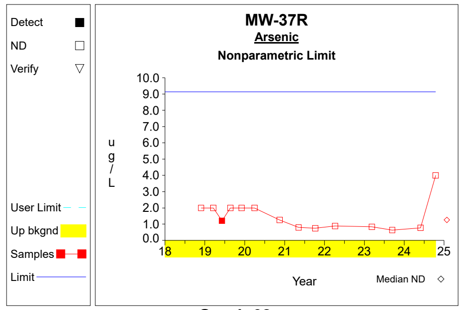
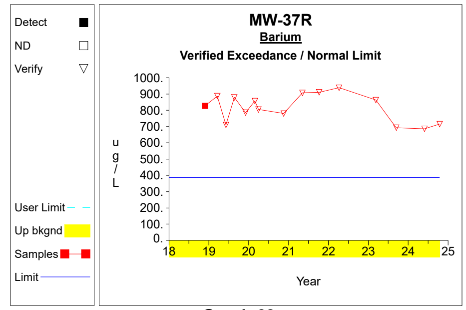
Up vs. Down Prediction Limits



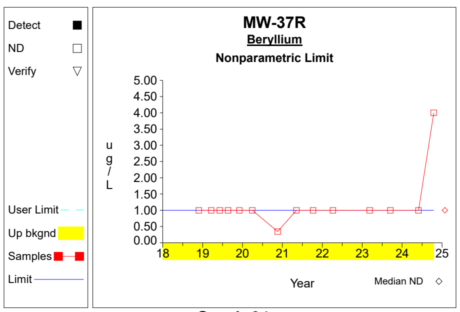
Graph 61



Graph 62



Graph 63



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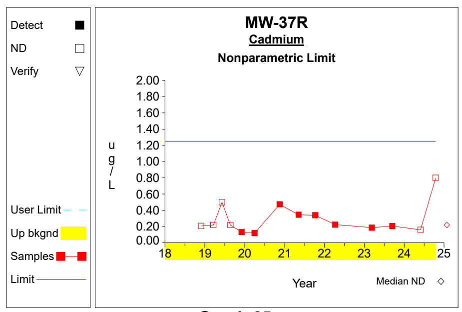

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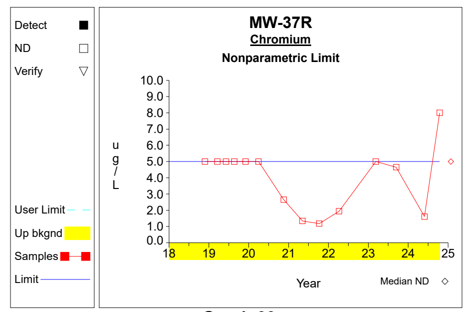

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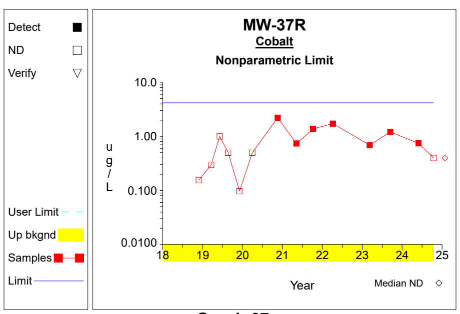

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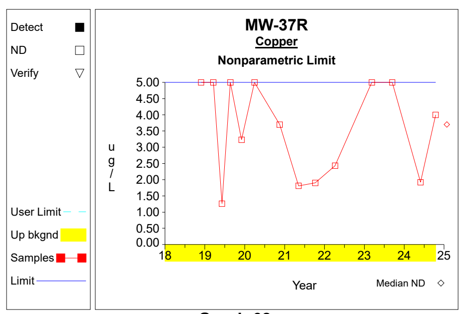

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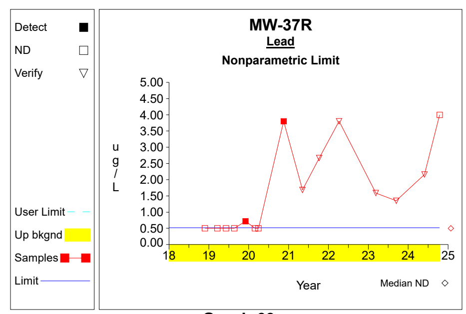
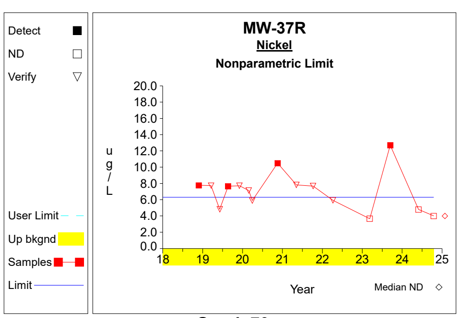
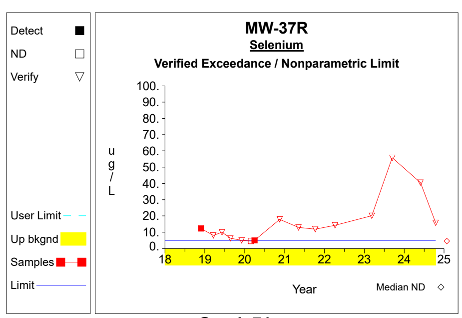


Graph 69



Graph 70



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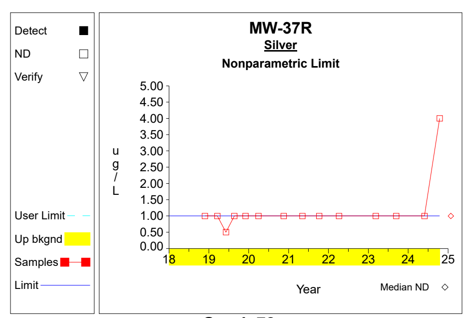

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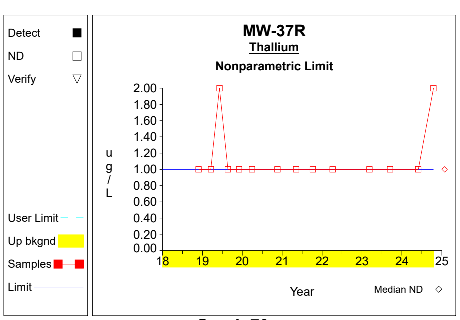

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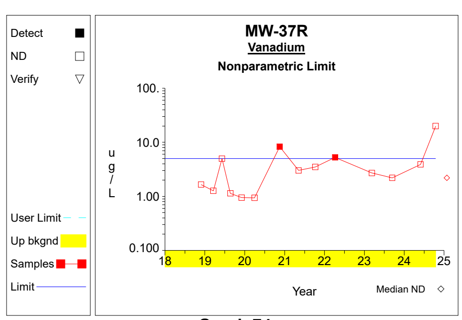

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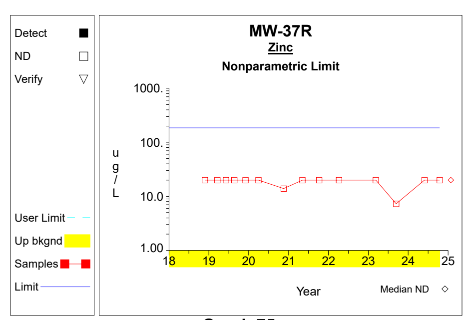

Graph 75

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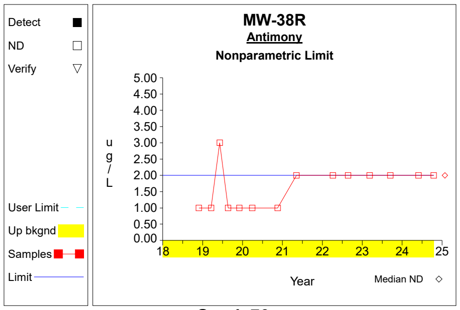
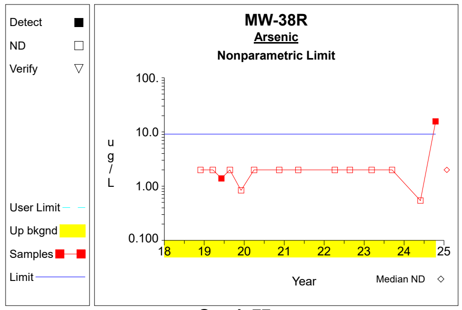
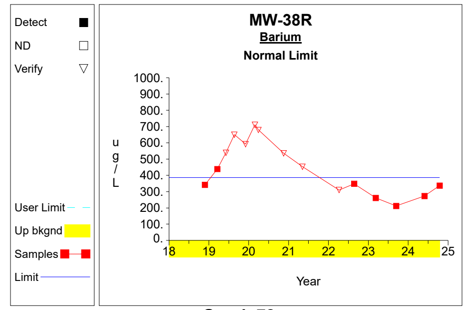
Up vs. Down Prediction Limits



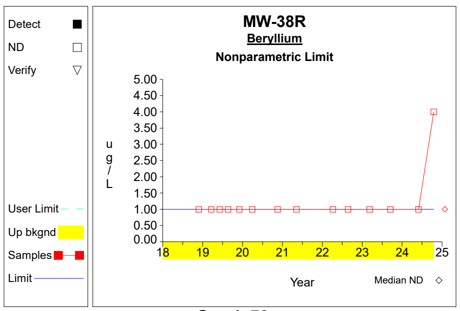
Graph 76



Graph 77



Graph 78



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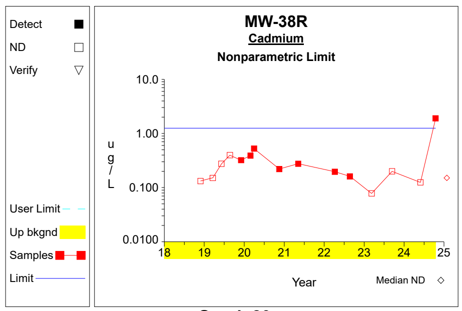

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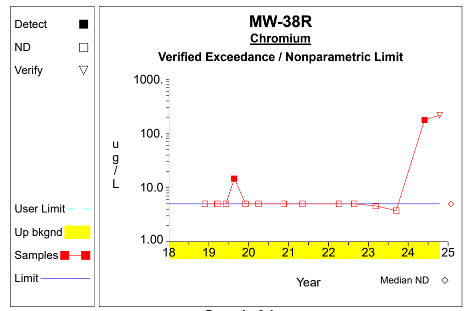
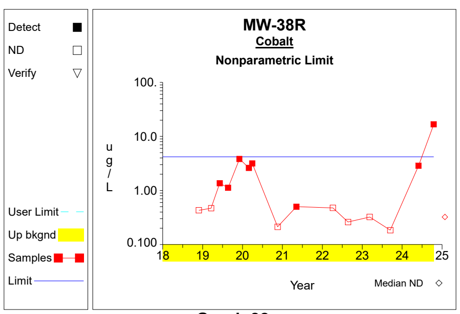
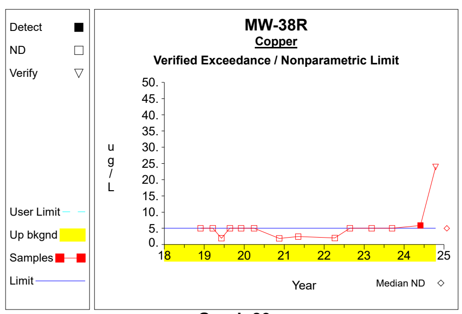


Graph 81



Graph 82



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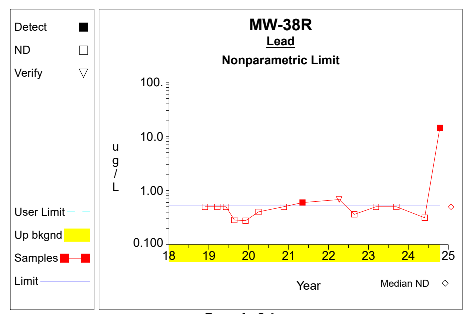
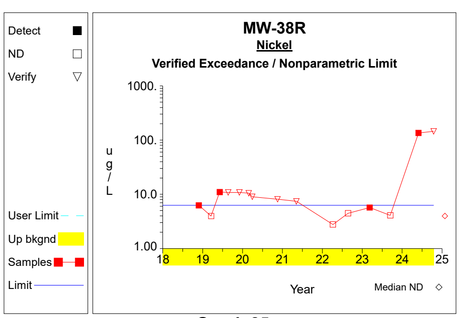


Graph 84



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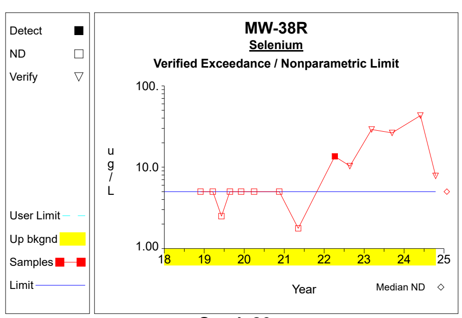

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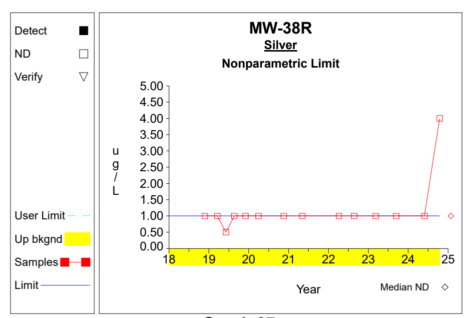
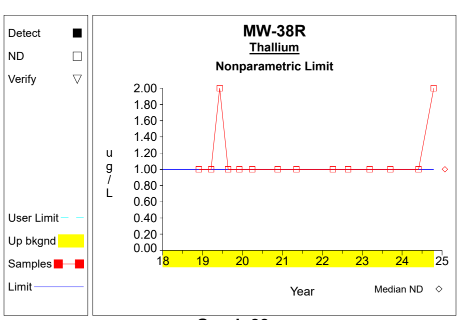
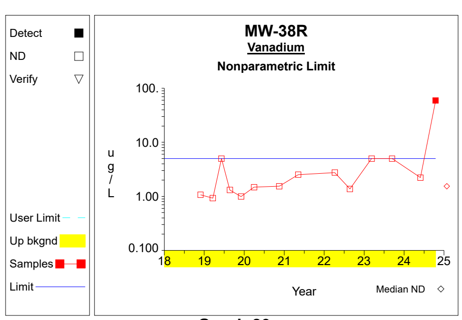


Graph 87



Graph 88



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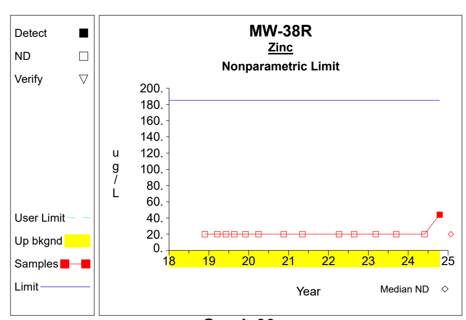

Graph 90

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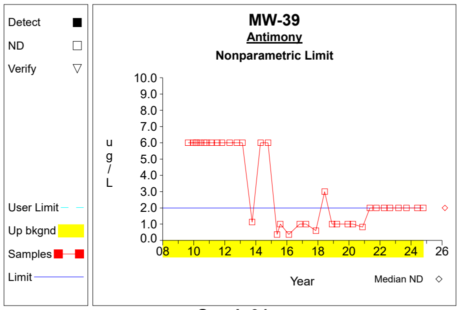
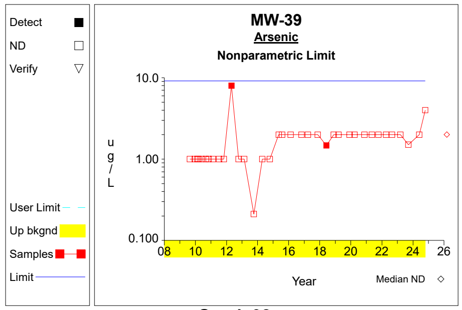
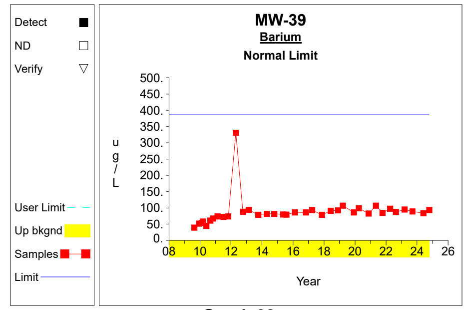
Up vs. Down Prediction Limits



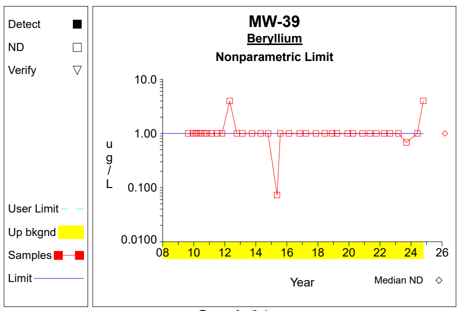
Graph 91



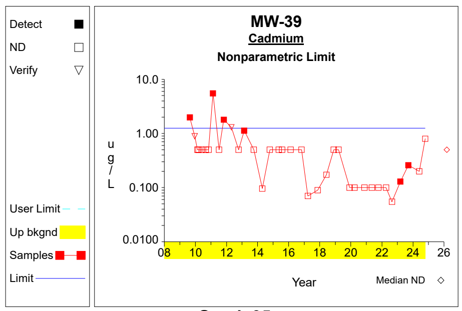
Graph 92



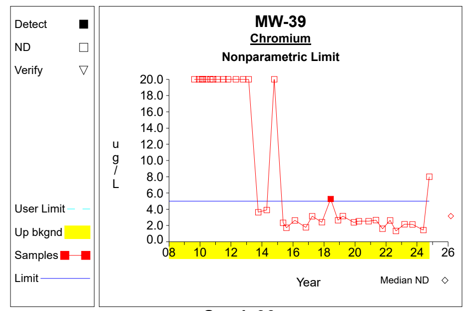
Graph 93



Graph 94



Graph 95



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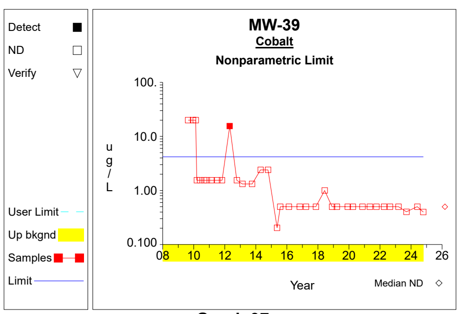
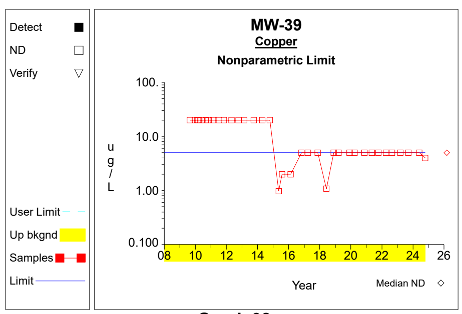
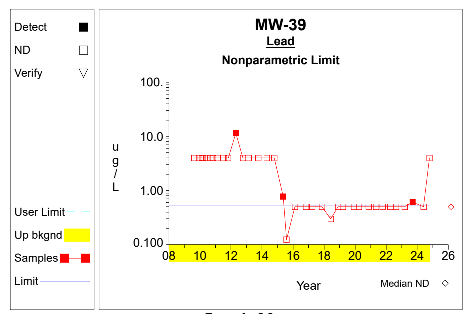


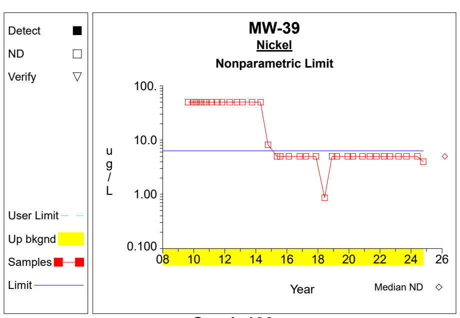
Graph 97



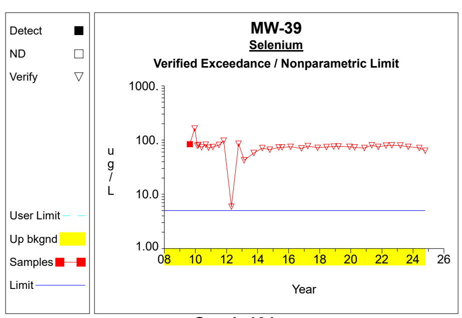
Graph 98



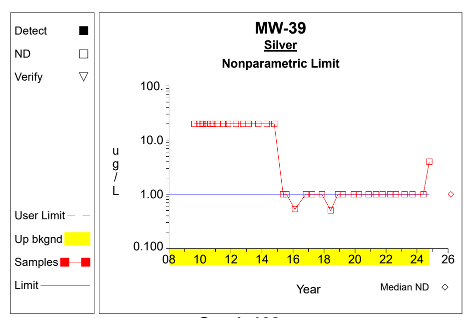
Graph 99



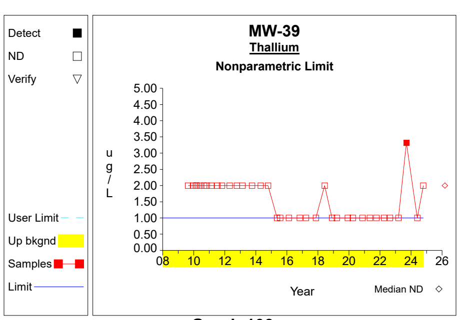
Graph 100



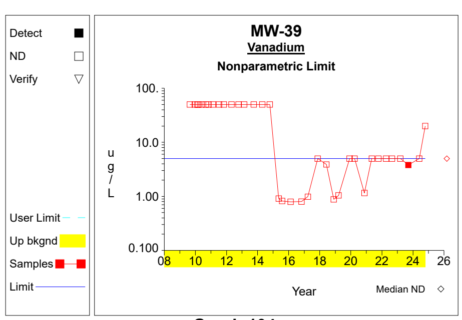
Graph 101



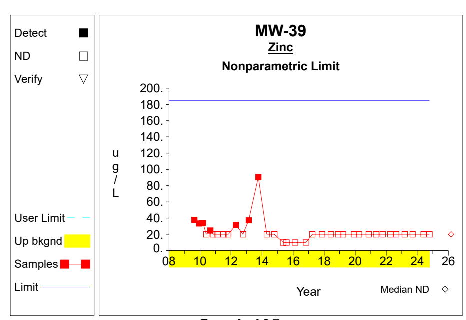
Graph 102



Graph 103

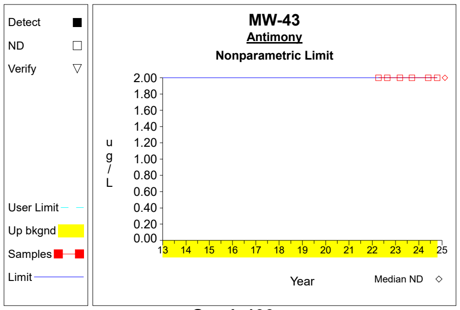


Graph 104

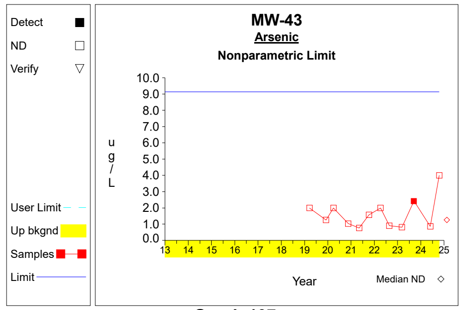


Graph 105

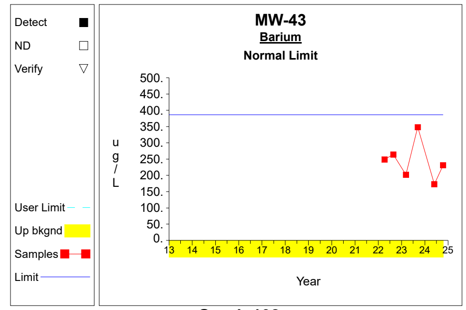
Up vs. Down Prediction Limits



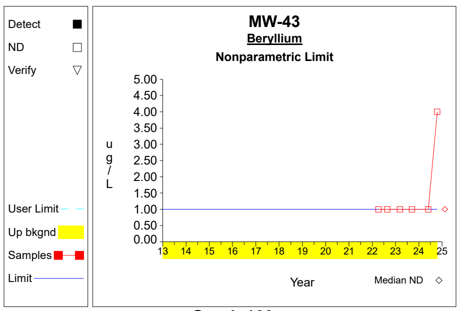
Graph 106



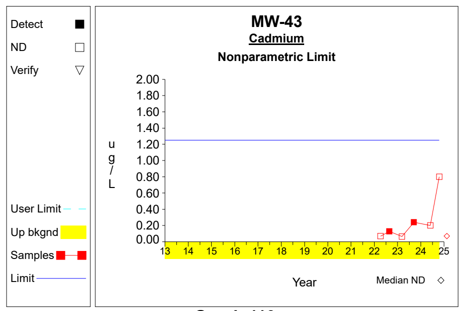
Graph 107



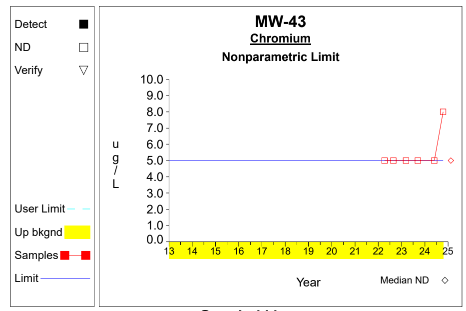
Graph 108



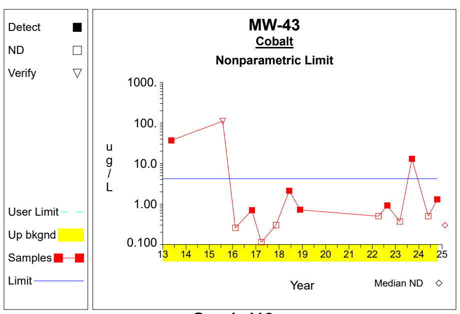
Graph 109



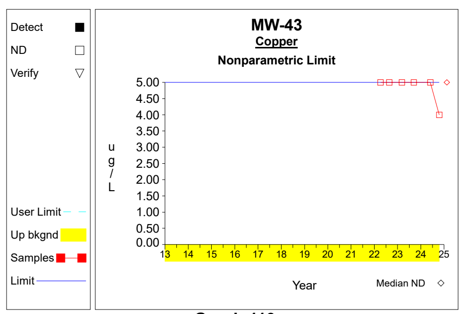
Graph 110



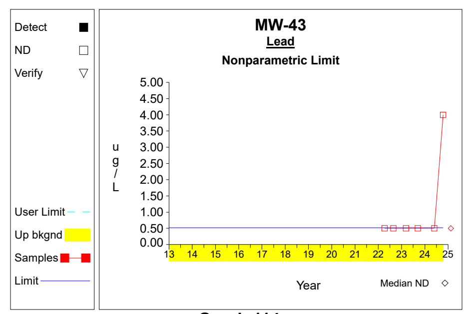
Graph 111



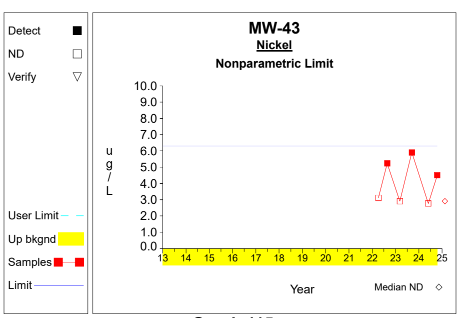
Graph 112



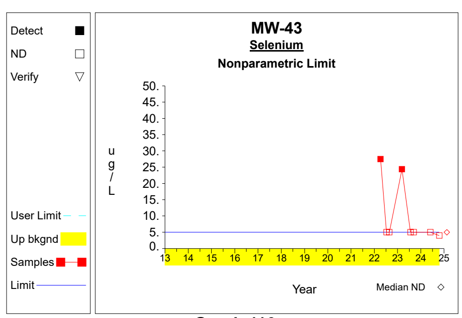
Graph 113



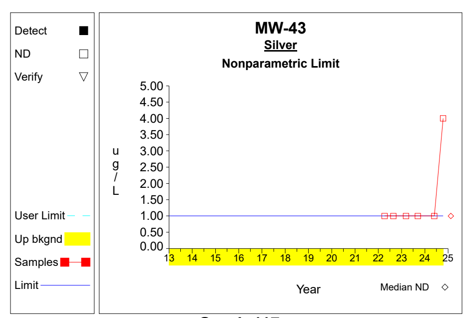
Graph 114



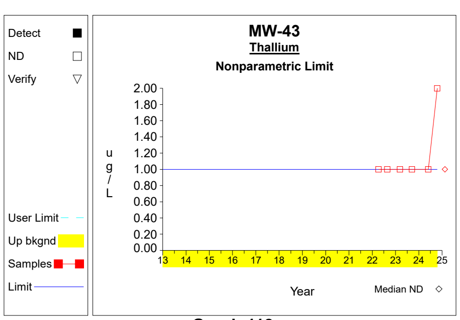
Graph 115



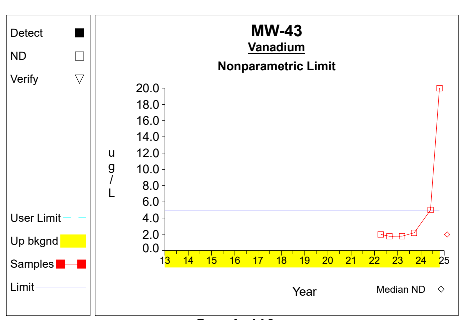
Graph 116



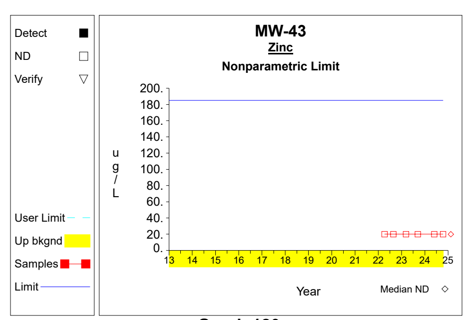
Graph 117



Graph 118



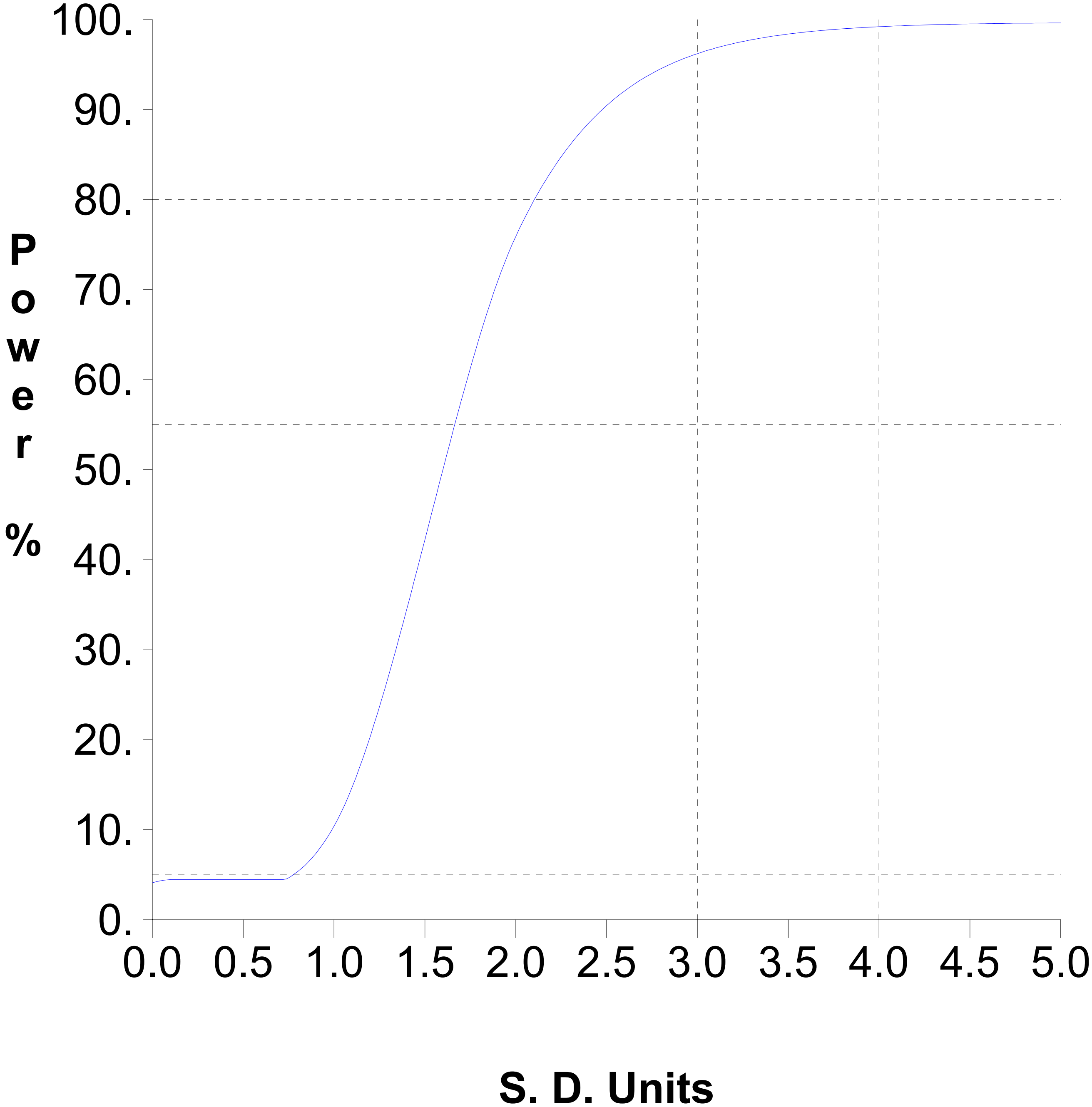
Graph 119



Graph 120

Prepared by: Otter Creek Environmental

False Positive and False Negative Rates for Current Upgradient vs. Downgradient Monitoring Program



Worksheet 1 - Upgradient vs. Downgradient Comparisons
Antimony (ug/L)
Nonparametric Prediction Limit

Step	Equation	Description
1	PL = median(X) = **2.0**	Compute nonparametric prediction limit as median reporting limit in background.
2	Conf = **0.986**	Confidence level is based on N, K and resampling strategy (see Gibbons 1994).

Worksheet 1 - Upgradient vs. Downgradient Comparisons
Arsenic (ug/L)
Nonparametric Prediction Limit

Step	Equation	Description
1	PL = max(X) = **9.13**	Compute nonparametric prediction limit as largest background measurement.
2	Conf = **0.986**	Confidence level is based on N, K and resampling strategy (see Gibbons 1994).

Worksheet 1 - Upgradient vs. Downgradient Comparisons
Barium (ug/L)
Normal Prediction Limit

Step	Equation	Description
1	$\bar{X} = \mathbf{sum[X]} / \mathbf{N}$ $= \mathbf{6188.0} / \mathbf{32}$ $= \mathbf{193.375}$	Compute upgradient mean.
2	$S = ((\mathbf{sum[X^2]} - \mathbf{sum[X]}^2/\mathbf{N}) / (\mathbf{N}-1))^{1/2}$ $= ((\mathbf{1.38}\times\mathbf{10^6} - \mathbf{3.83}\times\mathbf{10^7}/\mathbf{32}) / (\mathbf{32}-1))^{1/2}$ $= \mathbf{77.47}$	Compute upgradient sd.
3	$\text{alpha} = \min[(1-.95^{1/\mathbf{K}})^{1/2}, .01]$ $= \min[(1-.95^{1/\mathbf{120}})^{1/2}, .01]$ $= \mathbf{0.01}$	Adjusted per comparison false positive rate. Pass initial or 1 resample.
4	$PL = \bar{\mathbf{X}} + \mathbf{tS}(1+1/\mathbf{N})^{1/2}$ $= \mathbf{193.375}$ $+ (\mathbf{2.453}*\mathbf{77.47})(1+1/\mathbf{32})^{1/2}$ $= \mathbf{386.324}$	One-sided normal prediction limit (t is Student's t on N-1 degrees of freedom and 1-alpha confidence level).

Worksheet 1 - Upgradient vs. Downgradient Comparisons
Beryllium (ug/L)
Nonparametric Prediction Limit

Step	Equation	Description
1	PL = median(X) = **1.0**	Compute nonparametric prediction limit as median reporting limit in background.
2	Conf = **0.984**	Confidence level is based on N, K and resampling strategy (see Gibbons 1994).

Worksheet 1 - Upgradient vs. Downgradient Comparisons
Cadmium (ug/L)
Nonparametric Prediction Limit

Step	Equation	Description
1	PL = max(X) = **1.25**	Compute nonparametric prediction limit as largest background measurement.
2	Conf = **0.986**	Confidence level is based on N, K and resampling strategy (see Gibbons 1994).

Worksheet 1 - Upgradient vs. Downgradient Comparisons
Chromium (ug/L)
Nonparametric Prediction Limit

Step	Equation	Description
1	PL = median(X) = **5.0**	Compute nonparametric prediction limit as median reporting limit in background.
2	Conf = **0.986**	Confidence level is based on N, K and resampling strategy (see Gibbons 1994).

Worksheet 1 - Upgradient vs. Downgradient Comparisons
Cobalt (ug/L)
Nonparametric Prediction Limit

Step	Equation	Description
1	PL = max(X) = **4.2**	Compute nonparametric prediction limit as largest background measurement.
2	Conf = **0.986**	Confidence level is based on N, K and resampling strategy (see Gibbons 1994).

Worksheet 1 - Upgradient vs. Downgradient Comparisons
Copper (ug/L)
Nonparametric Prediction Limit

Step	Equation	Description
1	PL = median(X) = **5.0**	Compute nonparametric prediction limit as median reporting limit in background.
2	Conf = **0.986**	Confidence level is based on N, K and resampling strategy (see Gibbons 1994).

Worksheet 1 - Upgradient vs. Downgradient Comparisons
Lead (ug/L)
Nonparametric Prediction Limit

Step	Equation	Description
1	PL = max(X) = **0.518**	Compute nonparametric prediction limit as largest background measurement.
2	Conf = **0.986**	Confidence level is based on N, K and resampling strategy (see Gibbons 1994).

Worksheet 1 - Upgradient vs. Downgradient Comparisons
Nickel (ug/L)
Nonparametric Prediction Limit

Step	Equation	Description
1	PL = max(X) = **6.3**	Compute nonparametric prediction limit as largest background measurement.
2	Conf = **0.986**	Confidence level is based on N, K and resampling strategy (see Gibbons 1994).

Worksheet 1 - Upgradient vs. Downgradient Comparisons
Selenium (ug/L)
Nonparametric Prediction Limit

Step	Equation	Description
1	PL = median(X) = **5.0**	Compute nonparametric prediction limit as median reporting limit in background.
2	Conf = **0.986**	Confidence level is based on N, K and resampling strategy (see Gibbons 1994).

Worksheet 1 - Upgradient vs. Downgradient Comparisons
Silver (ug/L)
Nonparametric Prediction Limit

Step	Equation	Description
1	PL = median(X) = **1.0**	Compute nonparametric prediction limit as median reporting limit in background.
2	Conf = **0.986**	Confidence level is based on N, K and resampling strategy (see Gibbons 1994).

Worksheet 1 - Upgradient vs. Downgradient Comparisons
Thallium (ug/L)
Nonparametric Prediction Limit

Step	Equation	Description
1	PL = median(X) = **1.0**	Compute nonparametric prediction limit as median reporting limit in background.
2	Conf = **0.986**	Confidence level is based on N, K and resampling strategy (see Gibbons 1994).

Worksheet 1 - Upgradient vs. Downgradient Comparisons
Vanadium (ug/L)
Nonparametric Prediction Limit

Step	Equation	Description
1	PL = median(X) = **5.0**	Compute nonparametric prediction limit as median reporting limit in background.
2	Conf = **0.986**	Confidence level is based on N, K and resampling strategy (see Gibbons 1994).

Worksheet 1 - Upgradient vs. Downgradient Comparisons
Zinc (ug/L)
Nonparametric Prediction Limit

Step	Equation	Description
1	PL = max(X) = **185.0**	Compute nonparametric prediction limit as largest background measurement.
2	Conf = **0.986**	Confidence level is based on N, K and resampling strategy (see Gibbons 1994).

Attachment C

Summary Tables and Graphs for the Interwell Comparisons – Dakota

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Antimony	ug/L	MW-22	02/11/2008	ND	6.0000		
Antimony	ug/L	MW-22	04/30/2008	ND	6.0000		
Antimony	ug/L	MW-22	07/09/2008	ND	6.0000		
Antimony	ug/L	MW-22	09/11/2008	ND	6.0000		
Antimony	ug/L	MW-22	12/10/2008	ND	6.0000		
Antimony	ug/L	MW-22	08/21/2009	ND	6.0000		
Antimony	ug/L	MW-22	03/11/2010	ND	6.0000		
Antimony	ug/L	MW-22	08/31/2010	ND	6.0000		
Antimony	ug/L	MW-22	02/16/2011	ND	6.0000		
Antimony	ug/L	MW-22	10/27/2011	ND	6.0000		
Antimony	ug/L	MW-22	04/26/2012	ND	6.0000		
Antimony	ug/L	MW-22	10/09/2012	ND	6.0000		
Antimony	ug/L	MW-22	02/20/2013	ND	6.0000		
Antimony	ug/L	MW-22	10/03/2013	ND	6.0000		
Antimony	ug/L	MW-22	04/22/2014	ND	6.0000		
Antimony	ug/L	MW-22	10/14/2014	ND	6.0000		
Antimony	ug/L	MW-22	05/12/2015	ND	1.0000	6.0000	**
Antimony	ug/L	MW-22	07/29/2015	ND	1.0000	6.0000	**
Antimony	ug/L	MW-22	03/28/2016		236.0000		*
Antimony	ug/L	MW-22	10/31/2016		2.1300		
Antimony	ug/L	MW-22	03/27/2017	ND	1.0000	6.0000	**
Antimony	ug/L	MW-22	11/13/2017		1.5400		
Antimony	ug/L	MW-22	06/06/2018		6.5100		
Antimony	ug/L	MW-22	11/26/2018	ND	1.0000	6.0000	**
Antimony	ug/L	MW-22	03/18/2019	ND	1.0000	6.0000	**
Antimony	ug/L	MW-22	12/02/2019	ND	1.0000	6.0000	**
Antimony	ug/L	MW-22	03/30/2020	ND	1.0000	6.0000	**
Antimony	ug/L	MW-22	11/17/2020	ND	1.0000	6.0000	**
Antimony	ug/L	MW-22	05/06/2021	ND	2.0000	6.0000	**
Antimony	ug/L	MW-22	10/07/2021	ND	2.0000	6.0000	**
Antimony	ug/L	MW-22	04/06/2022	ND	1.0000	6.0000	**
Antimony	ug/L	MW-22	08/23/2022		5.6500		
Antimony	ug/L	MW-22	03/08/2023	ND	2.0000	6.0000	**
Antimony	ug/L	MW-22	09/13/2023	ND	2.0000	6.0000	**
Antimony	ug/L	MW-22	05/29/2024		2.7900		
Antimony	ug/L	MW-22	10/15/2024		21.6000		*
Arsenic	ug/L	MW-22	02/11/2008	ND	1.0000		
Arsenic	ug/L	MW-22	04/30/2008	ND	1.0000		
Arsenic	ug/L	MW-22	07/09/2008	ND	1.0000		
Arsenic	ug/L	MW-22	09/11/2008	ND	1.0000		
Arsenic	ug/L	MW-22	12/10/2008	ND	1.0000		
Arsenic	ug/L	MW-22	08/21/2009	ND	1.0000		
Arsenic	ug/L	MW-22	03/11/2010	ND	1.0000		
Arsenic	ug/L	MW-22	08/31/2010	ND	1.0000		
Arsenic	ug/L	MW-22	02/16/2011	ND	1.0000		
Arsenic	ug/L	MW-22	10/27/2011	ND	1.0000		
Arsenic	ug/L	MW-22	04/26/2012	ND	4.0000		*
Arsenic	ug/L	MW-22	10/09/2012	ND	1.0000		
Arsenic	ug/L	MW-22	02/20/2013	ND	1.0000		
Arsenic	ug/L	MW-22	10/03/2013	ND	1.0000		
Arsenic	ug/L	MW-22	04/22/2014	ND	1.0000		
Arsenic	ug/L	MW-22	10/14/2014	ND	1.0000		
Arsenic	ug/L	MW-22	05/12/2015	ND	2.0000	1.0000	**
Arsenic	ug/L	MW-22	07/29/2015	ND	2.0000	1.0000	**
Arsenic	ug/L	MW-22	03/28/2016	ND	2.0000	1.0000	**
Arsenic	ug/L	MW-22	10/31/2016	ND	2.0000	1.0000	**
Arsenic	ug/L	MW-22	03/27/2017	ND	2.0000	1.0000	**
Arsenic	ug/L	MW-22	11/13/2017	ND	1.0000		
Arsenic	ug/L	MW-22	06/06/2018		1.3500		
Arsenic	ug/L	MW-22	11/26/2018	ND	1.0000		
Arsenic	ug/L	MW-22	03/18/2019	ND	2.0000	1.0000	**
Arsenic	ug/L	MW-22	12/02/2019	ND	2.0000	1.0000	**
Arsenic	ug/L	MW-22	03/30/2020	ND	2.0000	1.0000	**
Arsenic	ug/L	MW-22	11/17/2020	ND	2.0000	1.0000	**
Arsenic	ug/L	MW-22	05/06/2021	ND	2.0000	1.0000	**
Arsenic	ug/L	MW-22	10/07/2021	ND	2.0000	1.0000	**
Arsenic	ug/L	MW-22	04/06/2022	ND	2.0000	1.0000	**
Arsenic	ug/L	MW-22	08/23/2022	ND	2.0000	1.0000	**
Arsenic	ug/L	MW-22	03/08/2023	ND	1.0000		
Arsenic	ug/L	MW-22	09/13/2023	ND	1.0000		
Arsenic	ug/L	MW-22	05/29/2024	ND	2.0000	1.0000	**
Arsenic	ug/L	MW-22	10/15/2024	ND	4.0000		*
Barium	ug/L	MW-22	02/11/2008		248.0000		
Barium	ug/L	MW-22	04/30/2008		229.0000		

* - Outlier for that well and constituent.
** - ND value replaced with median RL.
*** - ND value replaced with manual RL.
ND = Not detected, Result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Barium	ug/L	MW-22	07/09/2008		231.0000		
Barium	ug/L	MW-22	09/11/2008		234.0000		
Barium	ug/L	MW-22	12/10/2008		242.0000		
Barium	ug/L	MW-22	08/21/2009		233.0000		
Barium	ug/L	MW-22	03/11/2010		221.0000		
Barium	ug/L	MW-22	08/31/2010		244.0000		
Barium	ug/L	MW-22	02/16/2011		252.0000		
Barium	ug/L	MW-22	10/27/2011		221.0000		
Barium	ug/L	MW-22	04/26/2012		275.0000		
Barium	ug/L	MW-22	10/09/2012		238.5000		
Barium	ug/L	MW-22	02/20/2013		247.0000		
Barium	ug/L	MW-22	10/03/2013		220.0000		
Barium	ug/L	MW-22	04/22/2014		244.0000		
Barium	ug/L	MW-22	10/14/2014		254.0000		
Barium	ug/L	MW-22	05/12/2015		244.0000		
Barium	ug/L	MW-22	07/29/2015		241.0000		
Barium	ug/L	MW-22	03/28/2016		250.0000		
Barium	ug/L	MW-22	10/31/2016		248.0000		
Barium	ug/L	MW-22	03/27/2017		273.0000		
Barium	ug/L	MW-22	11/13/2017		220.0000		
Barium	ug/L	MW-22	06/06/2018		262.0000		
Barium	ug/L	MW-22	11/26/2018		270.0000		
Barium	ug/L	MW-22	03/18/2019		266.0000		
Barium	ug/L	MW-22	12/02/2019		264.0000		
Barium	ug/L	MW-22	03/30/2020		249.0000		
Barium	ug/L	MW-22	11/17/2020		208.0000		
Barium	ug/L	MW-22	05/06/2021		304.0000		
Barium	ug/L	MW-22	10/07/2021		274.0000		
Barium	ug/L	MW-22	04/06/2022		241.0000		
Barium	ug/L	MW-22	08/23/2022		250.0000		
Barium	ug/L	MW-22	03/08/2023		251.0000		
Barium	ug/L	MW-22	09/13/2023		238.0000		
Barium	ug/L	MW-22	05/29/2024		241.0000		
Barium	ug/L	MW-22	10/15/2024		231.0000		
Beryllium	ug/L	MW-22	02/11/2008	ND	1.0000		
Beryllium	ug/L	MW-22	04/30/2008	ND	0.0280		*
Beryllium	ug/L	MW-22	07/09/2008	ND	1.0000		
Beryllium	ug/L	MW-22	09/11/2008	ND	1.0000		
Beryllium	ug/L	MW-22	12/10/2008	ND	1.0000		
Beryllium	ug/L	MW-22	08/21/2009	ND	1.0000		
Beryllium	ug/L	MW-22	03/11/2010	ND	1.0000		
Beryllium	ug/L	MW-22	08/31/2010	ND	1.0000		
Beryllium	ug/L	MW-22	02/16/2011	ND	1.0000		
Beryllium	ug/L	MW-22	10/27/2011	ND	1.0000		
Beryllium	ug/L	MW-22	04/26/2012	ND	4.0000		*
Beryllium	ug/L	MW-22	10/09/2012	ND	1.0000		
Beryllium	ug/L	MW-22	02/20/2013	ND	1.0000		
Beryllium	ug/L	MW-22	10/03/2013	ND	1.0000		
Beryllium	ug/L	MW-22	04/22/2014	ND	1.0000		
Beryllium	ug/L	MW-22	10/14/2014	ND	1.0000		
Beryllium	ug/L	MW-22	05/12/2015	ND	1.0000		
Beryllium	ug/L	MW-22	07/29/2015	ND	1.0000		
Beryllium	ug/L	MW-22	03/28/2016	ND	1.0000		
Beryllium	ug/L	MW-22	10/31/2016	ND	1.0000		
Beryllium	ug/L	MW-22	03/27/2017	ND	1.0000		
Beryllium	ug/L	MW-22	11/13/2017	ND	1.0000		
Beryllium	ug/L	MW-22	06/06/2018	ND	1.0000		
Beryllium	ug/L	MW-22	11/26/2018	ND	1.0000		
Beryllium	ug/L	MW-22	03/18/2019	ND	1.0000		
Beryllium	ug/L	MW-22	12/02/2019	ND	1.0000		
Beryllium	ug/L	MW-22	03/30/2020	ND	1.0000		
Beryllium	ug/L	MW-22	11/17/2020	ND	1.0000		
Beryllium	ug/L	MW-22	05/06/2021	ND	1.0000		
Beryllium	ug/L	MW-22	10/07/2021	ND	1.0000		
Beryllium	ug/L	MW-22	04/06/2022	ND	1.0000		
Beryllium	ug/L	MW-22	08/23/2022	ND	1.0000		
Beryllium	ug/L	MW-22	03/08/2023	ND	1.0000		
Beryllium	ug/L	MW-22	09/13/2023	ND	1.0000		
Beryllium	ug/L	MW-22	05/29/2024	ND	1.0000		
Beryllium	ug/L	MW-22	10/15/2024	ND	4.0000		*
Cadmium	ug/L	MW-22	02/11/2008	ND	0.5000		
Cadmium	ug/L	MW-22	04/30/2008		0.1700		
Cadmium	ug/L	MW-22	07/09/2008	ND	0.5000		
Cadmium	ug/L	MW-22	09/11/2008		1.5800		

* - Outlier for that well and constituent.
** - ND value replaced with median RL.
*** - ND value replaced with manual RL.
ND = Not detected, Result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Cadmium	ug/L	MW-22	12/10/2008	ND	0.5000		
Cadmium	ug/L	MW-22	08/21/2009	ND	0.5000		
Cadmium	ug/L	MW-22	03/11/2010	ND	0.5000		
Cadmium	ug/L	MW-22	08/31/2010	ND	0.5000		
Cadmium	ug/L	MW-22	02/16/2011	ND	0.5000		
Cadmium	ug/L	MW-22	10/27/2011	ND	0.5000		
Cadmium	ug/L	MW-22	04/26/2012	ND	0.8000	0.5000	**
Cadmium	ug/L	MW-22	10/09/2012		0.5875		
Cadmium	ug/L	MW-22	02/20/2013		0.8750		
Cadmium	ug/L	MW-22	10/03/2013	ND	0.5000		
Cadmium	ug/L	MW-22	04/22/2014		0.5070		
Cadmium	ug/L	MW-22	10/14/2014	ND	1.0000	0.5000	**
Cadmium	ug/L	MW-22	05/12/2015	ND	0.5000		
Cadmium	ug/L	MW-22	07/29/2015	ND	1.0000	0.5000	**
Cadmium	ug/L	MW-22	03/28/2016	ND	1.0000	0.5000	**
Cadmium	ug/L	MW-22	10/31/2016	ND	0.5000		
Cadmium	ug/L	MW-22	03/27/2017	ND	0.5000		
Cadmium	ug/L	MW-22	11/13/2017	ND	0.5000		
Cadmium	ug/L	MW-22	06/06/2018	ND	0.5000		
Cadmium	ug/L	MW-22	11/26/2018	ND	0.5000		
Cadmium	ug/L	MW-22	03/18/2019	ND	0.5000		
Cadmium	ug/L	MW-22	12/02/2019	ND	0.1000	0.5000	**
Cadmium	ug/L	MW-22	03/30/2020	ND	0.1000	0.5000	**
Cadmium	ug/L	MW-22	11/17/2020		0.3070		
Cadmium	ug/L	MW-22	05/06/2021	ND	0.1000	0.5000	**
Cadmium	ug/L	MW-22	10/07/2021	ND	0.1000	0.5000	**
Cadmium	ug/L	MW-22	04/06/2022	ND	0.1000	0.5000	**
Cadmium	ug/L	MW-22	08/23/2022	ND	0.1000	0.5000	**
Cadmium	ug/L	MW-22	03/08/2023		0.1860		
Cadmium	ug/L	MW-22	09/13/2023	ND	0.2000	0.5000	**
Cadmium	ug/L	MW-22	05/29/2024	ND	0.2000	0.5000	**
Cadmium	ug/L	MW-22	10/15/2024	ND	0.8000	0.5000	**
Chromium	ug/L	MW-22	02/11/2008	ND	20.0000	5.0000	**
Chromium	ug/L	MW-22	04/30/2008	ND	1.7300	5.0000	**
Chromium	ug/L	MW-22	07/09/2008	ND	20.0000	5.0000	**
Chromium	ug/L	MW-22	09/11/2008	ND	20.0000	5.0000	**
Chromium	ug/L	MW-22	12/10/2008	ND	20.0000	5.0000	**
Chromium	ug/L	MW-22	08/21/2009	ND	20.0000	5.0000	**
Chromium	ug/L	MW-22	03/11/2010	ND	20.0000	5.0000	**
Chromium	ug/L	MW-22	08/31/2010	ND	20.0000	5.0000	**
Chromium	ug/L	MW-22	02/16/2011	ND	20.0000	5.0000	**
Chromium	ug/L	MW-22	10/27/2011	ND	20.0000	5.0000	**
Chromium	ug/L	MW-22	04/26/2012	ND	20.0000	5.0000	**
Chromium	ug/L	MW-22	10/09/2012	ND	20.0000	5.0000	**
Chromium	ug/L	MW-22	02/20/2013	ND	20.0000	5.0000	**
Chromium	ug/L	MW-22	10/03/2013	ND	20.0000	5.0000	**
Chromium	ug/L	MW-22	04/22/2014	ND	20.0000	5.0000	**
Chromium	ug/L	MW-22	10/14/2014	ND	20.0000	5.0000	**
Chromium	ug/L	MW-22	05/12/2015	ND	5.0000		
Chromium	ug/L	MW-22	07/29/2015	ND	5.0000		
Chromium	ug/L	MW-22	03/28/2016	ND	1.0000		*
Chromium	ug/L	MW-22	10/31/2016	ND	5.0000		
Chromium	ug/L	MW-22	03/27/2017	ND	5.0000		
Chromium	ug/L	MW-22	11/13/2017	ND	5.0000		
Chromium	ug/L	MW-22	06/06/2018	ND	4.0000	5.0000	**
Chromium	ug/L	MW-22	11/26/2018	ND	5.0000		
Chromium	ug/L	MW-22	03/18/2019	ND	5.0000		
Chromium	ug/L	MW-22	12/02/2019	ND	5.0000		
Chromium	ug/L	MW-22	03/30/2020	ND	5.0000		
Chromium	ug/L	MW-22	11/17/2020	ND	5.0000		
Chromium	ug/L	MW-22	05/06/2021	ND	5.0000		
Chromium	ug/L	MW-22	10/07/2021	ND	5.0000		
Chromium	ug/L	MW-22	04/06/2022	ND	5.0000		
Chromium	ug/L	MW-22	08/23/2022	ND	5.0000		
Chromium	ug/L	MW-22	03/08/2023	ND	5.0000		
Chromium	ug/L	MW-22	09/13/2023	ND	5.0000		
Chromium	ug/L	MW-22	05/29/2024	ND	5.0000		
Chromium	ug/L	MW-22	10/15/2024	ND	8.0000	5.0000	**
Cobalt	ug/L	MW-22	02/11/2008	ND	20.0000	1.0000	**
Cobalt	ug/L	MW-22	04/30/2008	ND	1.4000	1.0000	**
Cobalt	ug/L	MW-22	07/09/2008	ND	20.0000	1.0000	**
Cobalt	ug/L	MW-22	09/11/2008	ND	20.0000	1.0000	**
Cobalt	ug/L	MW-22	12/10/2008	ND	20.0000	1.0000	**
Cobalt	ug/L	MW-22	08/21/2009	ND	20.0000	1.0000	**

*   - Outlier for that well and constituent.
** - ND value replaced with median RL.
*** - ND value replaced with manual RL.
ND = Not detected, Result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Cobalt	ug/L	MW-22	03/11/2010	ND	1.5500	1.0000	**
Cobalt	ug/L	MW-22	08/31/2010	ND	1.5500	1.0000	**
Cobalt	ug/L	MW-22	02/16/2011	ND	1.5500	1.0000	**
Cobalt	ug/L	MW-22	10/27/2011		1.7300		
Cobalt	ug/L	MW-22	04/26/2012	ND	1.0000		
Cobalt	ug/L	MW-22	10/09/2012	ND	1.5500	1.0000	**
Cobalt	ug/L	MW-22	02/20/2013	ND	1.3200	1.0000	**
Cobalt	ug/L	MW-22	10/03/2013	ND	1.3200	1.0000	**
Cobalt	ug/L	MW-22	04/22/2014	ND	2.4100	1.0000	**
Cobalt	ug/L	MW-22	10/14/2014	ND	2.4100	1.0000	**
Cobalt	ug/L	MW-22	05/12/2015	ND	1.0000		
Cobalt	ug/L	MW-22	07/29/2015	ND	1.0000		
Cobalt	ug/L	MW-22	03/28/2016	ND	1.0000		
Cobalt	ug/L	MW-22	10/31/2016	ND	0.5000	1.0000	**
Cobalt	ug/L	MW-22	03/27/2017	ND	0.5000	1.0000	**
Cobalt	ug/L	MW-22	11/13/2017	ND	0.5000	1.0000	**
Cobalt	ug/L	MW-22	06/06/2018	ND	1.0000		
Cobalt	ug/L	MW-22	11/26/2018	ND	0.5000	1.0000	**
Cobalt	ug/L	MW-22	03/18/2019	ND	0.5000	1.0000	**
Cobalt	ug/L	MW-22	12/02/2019	ND	0.5000	1.0000	**
Cobalt	ug/L	MW-22	03/30/2020	ND	0.5000	1.0000	**
Cobalt	ug/L	MW-22	11/17/2020		1.3800		
Cobalt	ug/L	MW-22	05/06/2021	ND	0.5000	1.0000	**
Cobalt	ug/L	MW-22	10/07/2021	ND	0.5000	1.0000	**
Cobalt	ug/L	MW-22	04/06/2022	ND	0.5000	1.0000	**
Cobalt	ug/L	MW-22	08/23/2022	ND	0.5000	1.0000	**
Cobalt	ug/L	MW-22	03/08/2023	ND	0.1970	1.0000	**
Cobalt	ug/L	MW-22	09/13/2023	ND	0.5000	1.0000	**
Cobalt	ug/L	MW-22	05/29/2024	ND	0.5000	1.0000	**
Cobalt	ug/L	MW-22	10/15/2024	ND	0.4000	1.0000	**
Copper	ug/L	MW-22	02/11/2008	ND	20.0000	5.0000	**
Copper	ug/L	MW-22	04/30/2008	ND	13.1000	5.0000	**
Copper	ug/L	MW-22	07/09/2008	ND	20.0000	5.0000	**
Copper	ug/L	MW-22	09/11/2008	ND	20.0000	5.0000	**
Copper	ug/L	MW-22	12/10/2008	ND	20.0000	5.0000	**
Copper	ug/L	MW-22	08/21/2009	ND	20.0000	5.0000	**
Copper	ug/L	MW-22	03/11/2010	ND	20.0000	5.0000	**
Copper	ug/L	MW-22	08/31/2010	ND	20.0000	5.0000	**
Copper	ug/L	MW-22	02/16/2011	ND	20.0000	5.0000	**
Copper	ug/L	MW-22	10/27/2011	ND	20.0000	5.0000	**
Copper	ug/L	MW-22	04/26/2012	ND	20.0000	5.0000	**
Copper	ug/L	MW-22	10/09/2012	ND	20.0000	5.0000	**
Copper	ug/L	MW-22	02/20/2013	ND	20.0000	5.0000	**
Copper	ug/L	MW-22	10/03/2013	ND	20.0000	5.0000	**
Copper	ug/L	MW-22	04/22/2014	ND	20.0000	5.0000	**
Copper	ug/L	MW-22	10/14/2014	ND	20.0000	5.0000	**
Copper	ug/L	MW-22	05/12/2015	ND	2.0000	5.0000	**
Copper	ug/L	MW-22	07/29/2015		16.4000		
Copper	ug/L	MW-22	03/28/2016	ND	5.0000		
Copper	ug/L	MW-22	10/31/2016	ND	5.0000		
Copper	ug/L	MW-22	03/27/2017	ND	5.0000		
Copper	ug/L	MW-22	11/13/2017	ND	5.0000		
Copper	ug/L	MW-22	06/06/2018	ND	2.0000	5.0000	**
Copper	ug/L	MW-22	11/26/2018	ND	5.0000		
Copper	ug/L	MW-22	03/18/2019	ND	5.0000		
Copper	ug/L	MW-22	12/02/2019	ND	5.0000		
Copper	ug/L	MW-22	03/30/2020	ND	5.0000		
Copper	ug/L	MW-22	11/17/2020	ND	5.0000		
Copper	ug/L	MW-22	05/06/2021	ND	5.0000		
Copper	ug/L	MW-22	10/07/2021	ND	5.0000		
Copper	ug/L	MW-22	04/06/2022	ND	5.0000		
Copper	ug/L	MW-22	08/23/2022	ND	5.0000		
Copper	ug/L	MW-22	03/08/2023	ND	5.0000		
Copper	ug/L	MW-22	09/13/2023	ND	5.0000		
Copper	ug/L	MW-22	05/29/2024	ND	5.0000		
Copper	ug/L	MW-22	10/15/2024	ND	4.0000	5.0000	**
Lead	ug/L	MW-22	02/11/2008	ND	4.0000	1.0000	**
Lead	ug/L	MW-22	04/30/2008	ND	0.3700	1.0000	**
Lead	ug/L	MW-22	07/09/2008	ND	4.0000	1.0000	**
Lead	ug/L	MW-22	09/11/2008	ND	4.0000	1.0000	**
Lead	ug/L	MW-22	12/10/2008	ND	4.0000	1.0000	**
Lead	ug/L	MW-22	08/21/2009	ND	4.0000	1.0000	**
Lead	ug/L	MW-22	03/11/2010	ND	4.0000	1.0000	**
Lead	ug/L	MW-22	08/31/2010	ND	4.0000	1.0000	**

* - Outlier for that well and constituent.
** - ND value replaced with median RL.
*** - ND value replaced with manual RL.
ND = Not detected, Result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Lead	ug/L	MW-22	02/16/2011	ND	4.0000	1.0000	**
Lead	ug/L	MW-22	10/27/2011	ND	4.0000	1.0000	**
Lead	ug/L	MW-22	04/26/2012	ND	4.0000	1.0000	**
Lead	ug/L	MW-22	10/09/2012	ND	4.0000	1.0000	**
Lead	ug/L	MW-22	02/20/2013	ND	4.0000	1.0000	**
Lead	ug/L	MW-22	10/03/2013	ND	4.0000	1.0000	**
Lead	ug/L	MW-22	04/22/2014	ND	4.0000	1.0000	**
Lead	ug/L	MW-22	10/14/2014	ND	4.0000	1.0000	**
Lead	ug/L	MW-22	05/12/2015	ND	1.0000		
Lead	ug/L	MW-22	07/29/2015	ND	0.5000	1.0000	**
Lead	ug/L	MW-22	03/28/2016		0.7650		
Lead	ug/L	MW-22	10/31/2016	ND	0.5000	1.0000	**
Lead	ug/L	MW-22	03/27/2017	ND	0.5000	1.0000	**
Lead	ug/L	MW-22	11/13/2017	ND	0.5000	1.0000	**
Lead	ug/L	MW-22	06/06/2018	ND	1.0000		
Lead	ug/L	MW-22	11/26/2018	ND	0.5000	1.0000	**
Lead	ug/L	MW-22	03/18/2019	ND	0.5000	1.0000	**
Lead	ug/L	MW-22	12/02/2019	ND	0.5000	1.0000	**
Lead	ug/L	MW-22	03/30/2020	ND	0.5000	1.0000	**
Lead	ug/L	MW-22	11/17/2020	ND	1.0000		
Lead	ug/L	MW-22	05/06/2021	ND	0.5000	1.0000	**
Lead	ug/L	MW-22	10/07/2021	ND	0.5000	1.0000	**
Lead	ug/L	MW-22	04/06/2022	ND	0.5000	1.0000	**
Lead	ug/L	MW-22	08/23/2022		0.5280		
Lead	ug/L	MW-22	03/08/2023	ND	0.3690	1.0000	**
Lead	ug/L	MW-22	09/13/2023	ND	0.5000	1.0000	**
Lead	ug/L	MW-22	05/29/2024	ND	0.3270	1.0000	**
Lead	ug/L	MW-22	10/15/2024	ND	4.0000	1.0000	**
Nickel	ug/L	MW-22	02/11/2008	ND	50.0000	5.0000	**
Nickel	ug/L	MW-22	04/30/2008	ND	4.6000	5.0000	**
Nickel	ug/L	MW-22	07/09/2008	ND	50.0000	5.0000	**
Nickel	ug/L	MW-22	09/11/2008	ND	50.0000	5.0000	**
Nickel	ug/L	MW-22	12/10/2008	ND	50.0000	5.0000	**
Nickel	ug/L	MW-22	08/21/2009	ND	50.0000	5.0000	**
Nickel	ug/L	MW-22	03/11/2010	ND	50.0000	5.0000	**
Nickel	ug/L	MW-22	08/31/2010	ND	50.0000	5.0000	**
Nickel	ug/L	MW-22	02/16/2011	ND	50.0000	5.0000	**
Nickel	ug/L	MW-22	10/27/2011	ND	50.0000	5.0000	**
Nickel	ug/L	MW-22	04/26/2012	ND	50.0000	5.0000	**
Nickel	ug/L	MW-22	10/09/2012	ND	50.0000	5.0000	**
Nickel	ug/L	MW-22	02/20/2013	ND	50.0000	5.0000	**
Nickel	ug/L	MW-22	10/03/2013	ND	50.0000	5.0000	**
Nickel	ug/L	MW-22	04/22/2014	ND	50.0000	5.0000	**
Nickel	ug/L	MW-22	10/14/2014	ND	50.0000	5.0000	**
Nickel	ug/L	MW-22	05/12/2015	ND	5.0000		
Nickel	ug/L	MW-22	07/29/2015	ND	5.0000		
Nickel	ug/L	MW-22	03/28/2016	ND	5.0000		
Nickel	ug/L	MW-22	10/31/2016	ND	5.0000		
Nickel	ug/L	MW-22	03/27/2017	ND	5.0000		
Nickel	ug/L	MW-22	11/13/2017	ND	5.0000		
Nickel	ug/L	MW-22	06/06/2018	ND	1.0000	5.0000	**
Nickel	ug/L	MW-22	11/26/2018	ND	5.0000		
Nickel	ug/L	MW-22	03/18/2019	ND	5.0000		
Nickel	ug/L	MW-22	12/02/2019	ND	5.0000		
Nickel	ug/L	MW-22	03/30/2020	ND	5.0000		
Nickel	ug/L	MW-22	11/17/2020	ND	5.0000		
Nickel	ug/L	MW-22	05/06/2021	ND	5.0000		
Nickel	ug/L	MW-22	10/07/2021	ND	5.0000		
Nickel	ug/L	MW-22	04/06/2022	ND	5.0000		
Nickel	ug/L	MW-22	08/23/2022	ND	5.0000		
Nickel	ug/L	MW-22	03/08/2023	ND	5.0000		
Nickel	ug/L	MW-22	09/13/2023		10.7500		
Nickel	ug/L	MW-22	05/29/2024	ND	5.0000		
Nickel	ug/L	MW-22	10/15/2024	ND	4.0000	5.0000	**
Selenium	ug/L	MW-22	02/11/2008	ND	5.0000		
Selenium	ug/L	MW-22	04/30/2008	ND	1.4400	5.0000	**
Selenium	ug/L	MW-22	07/09/2008	ND	5.0000		
Selenium	ug/L	MW-22	09/11/2008	ND	5.0000		
Selenium	ug/L	MW-22	12/10/2008	ND	5.0000		
Selenium	ug/L	MW-22	08/21/2009	ND	5.0000		
Selenium	ug/L	MW-22	03/11/2010	ND	5.0000		
Selenium	ug/L	MW-22	08/31/2010	ND	5.0000		
Selenium	ug/L	MW-22	02/16/2011	ND	5.0000		
Selenium	ug/L	MW-22	10/27/2011	ND	5.0000		

* - Outlier for that well and constituent.
** - ND value replaced with median RL.
*** - ND value replaced with manual RL.
ND = Not detected, Result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Selenium	ug/L	MW-22	04/26/2012	ND	5.0000		
Selenium	ug/L	MW-22	10/09/2012	ND	5.0000		
Selenium	ug/L	MW-22	02/20/2013	ND	5.0000		
Selenium	ug/L	MW-22	10/03/2013	ND	5.0000		
Selenium	ug/L	MW-22	04/22/2014	ND	5.0000		
Selenium	ug/L	MW-22	10/14/2014	ND	5.0000		
Selenium	ug/L	MW-22	05/12/2015	ND	5.0000		
Selenium	ug/L	MW-22	07/29/2015	ND	5.0000		
Selenium	ug/L	MW-22	03/28/2016	ND	2.0000	5.0000	**
Selenium	ug/L	MW-22	10/31/2016	ND	1.0000	5.0000	**
Selenium	ug/L	MW-22	03/27/2017	ND	2.0000	5.0000	**
Selenium	ug/L	MW-22	11/13/2017	ND	2.0000	5.0000	**
Selenium	ug/L	MW-22	06/06/2018	ND	2.5000	5.0000	**
Selenium	ug/L	MW-22	11/26/2018	ND	2.0000	5.0000	**
Selenium	ug/L	MW-22	03/18/2019	ND	2.0000	5.0000	**
Selenium	ug/L	MW-22	12/02/2019	ND	2.0000	5.0000	**
Selenium	ug/L	MW-22	03/30/2020	ND	2.0000	5.0000	**
Selenium	ug/L	MW-22	11/17/2020	ND	3.0000	5.0000	**
Selenium	ug/L	MW-22	05/06/2021	ND	1.0200	5.0000	**
Selenium	ug/L	MW-22	10/07/2021	ND	1.5200	5.0000	**
Selenium	ug/L	MW-22	04/06/2022	ND	1.6900	5.0000	**
Selenium	ug/L	MW-22	08/23/2022	ND	5.0000		
Selenium	ug/L	MW-22	03/08/2023	ND	2.0500	5.0000	**
Selenium	ug/L	MW-22	09/13/2023	ND	3.2450	5.0000	**
Selenium	ug/L	MW-22	05/29/2024	ND	5.0000		
Selenium	ug/L	MW-22	10/15/2024	ND	4.0000	5.0000	**
Silver	ug/L	MW-22	02/11/2008	ND	20.0000	1.0000	**
Silver	ug/L	MW-22	04/30/2008	ND	2.6100	1.0000	**
Silver	ug/L	MW-22	07/09/2008	ND	20.0000	1.0000	**
Silver	ug/L	MW-22	09/11/2008	ND	20.0000	1.0000	**
Silver	ug/L	MW-22	12/10/2008	ND	20.0000	1.0000	**
Silver	ug/L	MW-22	08/21/2009	ND	20.0000	1.0000	**
Silver	ug/L	MW-22	03/11/2010	ND	20.0000	1.0000	**
Silver	ug/L	MW-22	08/31/2010	ND	20.0000	1.0000	**
Silver	ug/L	MW-22	02/16/2011	ND	20.0000	1.0000	**
Silver	ug/L	MW-22	10/27/2011	ND	20.0000	1.0000	**
Silver	ug/L	MW-22	04/26/2012	ND	20.0000	1.0000	**
Silver	ug/L	MW-22	10/09/2012	ND	20.0000	1.0000	**
Silver	ug/L	MW-22	02/20/2013	ND	20.0000	1.0000	**
Silver	ug/L	MW-22	10/03/2013	ND	20.0000	1.0000	**
Silver	ug/L	MW-22	04/22/2014	ND	20.0000	1.0000	**
Silver	ug/L	MW-22	10/14/2014	ND	20.0000	1.0000	**
Silver	ug/L	MW-22	05/12/2015	ND	1.0000		
Silver	ug/L	MW-22	07/29/2015	ND	1.0000		
Silver	ug/L	MW-22	03/28/2016	ND	1.0000		
Silver	ug/L	MW-22	10/31/2016	ND	1.0000		
Silver	ug/L	MW-22	03/27/2017	ND	1.0000		
Silver	ug/L	MW-22	11/13/2017	ND	1.0000		
Silver	ug/L	MW-22	06/06/2018	ND	0.5000	1.0000	**
Silver	ug/L	MW-22	11/26/2018	ND	1.0000		
Silver	ug/L	MW-22	03/18/2019	ND	1.0000		
Silver	ug/L	MW-22	12/02/2019	ND	1.0000		
Silver	ug/L	MW-22	03/30/2020	ND	1.0000		
Silver	ug/L	MW-22	11/17/2020	ND	1.0000		
Silver	ug/L	MW-22	05/06/2021	ND	1.0000		
Silver	ug/L	MW-22	10/07/2021	ND	1.0000		
Silver	ug/L	MW-22	04/06/2022	ND	0.6510	1.0000	**
Silver	ug/L	MW-22	08/23/2022	ND	1.0000		
Silver	ug/L	MW-22	03/08/2023	ND	1.0000		
Silver	ug/L	MW-22	09/13/2023	ND	1.0000		
Silver	ug/L	MW-22	05/29/2024	ND	1.0000		
Silver	ug/L	MW-22	10/15/2024	ND	4.0000	1.0000	**
Thallium	ug/L	MW-22	02/11/2008	ND	2.0000	1.0000	**
Thallium	ug/L	MW-22	04/30/2008	ND	0.7000	1.0000	**
Thallium	ug/L	MW-22	07/09/2008	ND	2.0000	1.0000	**
Thallium	ug/L	MW-22	09/11/2008	ND	2.0000	1.0000	**
Thallium	ug/L	MW-22	12/10/2008	ND	2.0000	1.0000	**
Thallium	ug/L	MW-22	08/21/2009	ND	2.0000	1.0000	**
Thallium	ug/L	MW-22	03/11/2010	ND	2.0000	1.0000	**
Thallium	ug/L	MW-22	08/31/2010	ND	2.0000	1.0000	**
Thallium	ug/L	MW-22	02/16/2011	ND	2.0000	1.0000	**
Thallium	ug/L	MW-22	10/27/2011	ND	2.0000	1.0000	**
Thallium	ug/L	MW-22	04/26/2012	ND	2.0000	1.0000	**
Thallium	ug/L	MW-22	10/09/2012	ND	2.0000	1.0000	**

*   - Outlier for that well and constituent.
** - ND value replaced with median RL.
*** - ND value replaced with manual RL.
ND = Not detected, Result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Thallium	ug/L	MW-22	02/20/2013	ND	2.0000	1.0000	**
Thallium	ug/L	MW-22	10/03/2013	ND	2.0000	1.0000	**
Thallium	ug/L	MW-22	04/22/2014	ND	2.0000	1.0000	**
Thallium	ug/L	MW-22	10/14/2014	ND	2.0000	1.0000	**
Thallium	ug/L	MW-22	05/12/2015	ND	1.0000		
Thallium	ug/L	MW-22	07/29/2015	ND	1.0000		
Thallium	ug/L	MW-22	03/28/2016	ND	1.0000		
Thallium	ug/L	MW-22	10/31/2016	ND	1.0000		
Thallium	ug/L	MW-22	03/27/2017	ND	1.0000		
Thallium	ug/L	MW-22	11/13/2017	ND	1.0000		
Thallium	ug/L	MW-22	06/06/2018	ND	2.0000	1.0000	**
Thallium	ug/L	MW-22	11/26/2018	ND	1.0000		
Thallium	ug/L	MW-22	03/18/2019	ND	1.0000		
Thallium	ug/L	MW-22	12/02/2019	ND	1.0000		
Thallium	ug/L	MW-22	03/30/2020	ND	1.0000		
Thallium	ug/L	MW-22	11/17/2020	ND	1.0000		
Thallium	ug/L	MW-22	05/06/2021	ND	1.0000		
Thallium	ug/L	MW-22	10/07/2021	ND	1.0000		
Thallium	ug/L	MW-22	04/06/2022	ND	1.0000		
Thallium	ug/L	MW-22	08/23/2022	ND	1.0000		
Thallium	ug/L	MW-22	03/08/2023	ND	0.7460	1.0000	**
Thallium	ug/L	MW-22	09/13/2023	ND	1.0000		
Thallium	ug/L	MW-22	05/29/2024	ND	1.0000		
Thallium	ug/L	MW-22	10/15/2024	ND	2.0000	1.0000	**
Vanadium	ug/L	MW-22	02/11/2008	ND	50.0000	3.0000	**
Vanadium	ug/L	MW-22	04/30/2008	ND	1.6000	3.0000	**
Vanadium	ug/L	MW-22	07/09/2008	ND	50.0000	3.0000	**
Vanadium	ug/L	MW-22	09/11/2008	ND	50.0000	3.0000	**
Vanadium	ug/L	MW-22	12/10/2008	ND	50.0000	3.0000	**
Vanadium	ug/L	MW-22	08/21/2009	ND	50.0000	3.0000	**
Vanadium	ug/L	MW-22	03/11/2010	ND	50.0000	3.0000	**
Vanadium	ug/L	MW-22	08/31/2010	ND	50.0000	3.0000	**
Vanadium	ug/L	MW-22	02/16/2011	ND	50.0000	3.0000	**
Vanadium	ug/L	MW-22	10/27/2011	ND	50.0000	3.0000	**
Vanadium	ug/L	MW-22	04/26/2012	ND	50.0000	3.0000	**
Vanadium	ug/L	MW-22	10/09/2012	ND	50.0000	3.0000	**
Vanadium	ug/L	MW-22	02/20/2013	ND	50.0000	3.0000	**
Vanadium	ug/L	MW-22	10/03/2013	ND	50.0000	3.0000	**
Vanadium	ug/L	MW-22	04/22/2014	ND	50.0000	3.0000	**
Vanadium	ug/L	MW-22	10/14/2014	ND	50.0000	3.0000	**
Vanadium	ug/L	MW-22	05/12/2015	ND	2.0000	3.0000	**
Vanadium	ug/L	MW-22	07/29/2015	ND	2.0000	3.0000	**
Vanadium	ug/L	MW-22	03/28/2016	ND	2.0000	3.0000	**
Vanadium	ug/L	MW-22	10/31/2016	ND	2.0000	3.0000	**
Vanadium	ug/L	MW-22	03/27/2017	ND	2.0000	3.0000	**
Vanadium	ug/L	MW-22	11/13/2017	ND	2.0000	3.0000	**
Vanadium	ug/L	MW-22	06/06/2018	ND	4.0000	3.0000	**
Vanadium	ug/L	MW-22	11/26/2018	ND	2.0000	3.0000	**
Vanadium	ug/L	MW-22	03/18/2019	ND	2.0000	3.0000	**
Vanadium	ug/L	MW-22	12/02/2019	ND	2.0000	3.0000	**
Vanadium	ug/L	MW-22	03/30/2020	ND	5.0000	3.0000	**
Vanadium	ug/L	MW-22	11/17/2020	ND	3.0000		
Vanadium	ug/L	MW-22	05/06/2021	ND	1.5700	3.0000	**
Vanadium	ug/L	MW-22	10/07/2021	ND	1.1000	3.0000	**
Vanadium	ug/L	MW-22	04/06/2022	ND	1.1100	3.0000	**
Vanadium	ug/L	MW-22	08/23/2022	ND	2.0100	3.0000	**
Vanadium	ug/L	MW-22	03/08/2023	ND	1.3300	3.0000	**
Vanadium	ug/L	MW-22	09/13/2023	ND	1.3550	3.0000	**
Vanadium	ug/L	MW-22	05/29/2024	ND	1.4500	3.0000	**
Vanadium	ug/L	MW-22	10/15/2024	ND	20.0000	3.0000	**
Zinc	ug/L	MW-22	02/11/2008	ND	20.0000		
Zinc	ug/L	MW-22	04/30/2008	ND	5.2700		*
Zinc	ug/L	MW-22	07/09/2008		25.1000		
Zinc	ug/L	MW-22	09/11/2008	ND	20.0000		
Zinc	ug/L	MW-22	12/10/2008		21.3000		
Zinc	ug/L	MW-22	08/21/2009	ND	20.0000		
Zinc	ug/L	MW-22	03/11/2010	ND	20.0000		
Zinc	ug/L	MW-22	08/31/2010	ND	20.0000		
Zinc	ug/L	MW-22	02/16/2011	ND	20.0000		
Zinc	ug/L	MW-22	10/27/2011	ND	20.0000		
Zinc	ug/L	MW-22	04/26/2012		25.0000		
Zinc	ug/L	MW-22	10/09/2012	ND	20.0000		
Zinc	ug/L	MW-22	02/20/2013		24.2500		
Zinc	ug/L	MW-22	10/03/2013		34.1000		

* - Outlier for that well and constituent.
** - ND value replaced with median RL.
*** - ND value replaced with manual RL.
ND = Not detected, Result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Zinc	ug/L	MW-22	04/22/2014	ND	20.0000		
Zinc	ug/L	MW-22	10/14/2014	ND	20.0000		
Zinc	ug/L	MW-22	05/12/2015	ND	10.0000	20.0000	**
Zinc	ug/L	MW-22	07/29/2015		97.4000		*
Zinc	ug/L	MW-22	03/28/2016		13.2000		
Zinc	ug/L	MW-22	10/31/2016		12.5000		
Zinc	ug/L	MW-22	03/27/2017	ND	20.0000		
Zinc	ug/L	MW-22	11/13/2017	ND	20.0000		
Zinc	ug/L	MW-22	06/06/2018	ND	20.0000		
Zinc	ug/L	MW-22	11/26/2018	ND	20.0000		
Zinc	ug/L	MW-22	03/18/2019	ND	20.0000		
Zinc	ug/L	MW-22	12/02/2019	ND	20.0000		
Zinc	ug/L	MW-22	03/30/2020	ND	20.0000		
Zinc	ug/L	MW-22	11/17/2020	ND	20.0000		
Zinc	ug/L	MW-22	05/06/2021	ND	20.0000		
Zinc	ug/L	MW-22	10/07/2021	ND	20.0000		
Zinc	ug/L	MW-22	04/06/2022	ND	20.0000		
Zinc	ug/L	MW-22	08/23/2022	ND	20.0000		
Zinc	ug/L	MW-22	03/08/2023	ND	20.0000		
Zinc	ug/L	MW-22	09/13/2023	ND	20.0000		
Zinc	ug/L	MW-22	05/29/2024	ND	20.0000		
Zinc	ug/L	MW-22	10/15/2024	ND	20.0000		

*   - Outlier for that well and constituent.
** - ND value replaced with median RL.
*** - ND value replaced with manual RL.
ND = Not detected, Result = detection limit.

Table 2

Most Current Downgradient Monitoring Data

Constituent	Units	Well	Date		Result		Pred. Limit
Antimony	ug/L	MW-11	10/15/2024	ND	2.0000		6.5100
Arsenic	ug/L	MW-11	10/15/2024		6.6000	***	1.3500
Barium	ug/L	MW-11	10/15/2024		346.0000	***	293.2723
Beryllium	ug/L	MW-11	10/15/2024	ND	4.0000		1.0000
Cadmium	ug/L	MW-11	10/15/2024	ND	0.8000		1.5800
Chromium	ug/L	MW-11	10/15/2024	ND	8.0000		5.0000
Cobalt	ug/L	MW-11	10/15/2024		3.0000	***	1.7300
Copper	ug/L	MW-11	10/15/2024		9.7000		16.4000
Lead	ug/L	MW-11	10/15/2024	ND	4.0000		1.0000
Nickel	ug/L	MW-11	10/15/2024		5.4000		10.7500
Selenium	ug/L	MW-11	10/15/2024	ND	4.0000		5.0000
Silver	ug/L	MW-11	10/15/2024	ND	4.0000		1.0000
Thallium	ug/L	MW-11	10/15/2024	ND	2.0000		1.0000
Vanadium	ug/L	MW-11	10/15/2024	ND	20.0000		3.0000
Zinc	ug/L	MW-11	10/15/2024		28.4000		34.1000
Antimony	ug/L	MW-13	10/15/2024	ND	2.0000		6.5100
Arsenic	ug/L	MW-13	10/15/2024	ND	4.0000		1.3500
Barium	ug/L	MW-13	10/15/2024		232.0000		293.2723
Beryllium	ug/L	MW-13	10/15/2024	ND	4.0000		1.0000
Cadmium	ug/L	MW-13	10/15/2024	ND	0.8000		1.5800
Chromium	ug/L	MW-13	10/15/2024	ND	8.0000		5.0000
Cobalt	ug/L	MW-13	10/15/2024		1.7000		1.7300
Copper	ug/L	MW-13	10/15/2024	ND	4.0000		16.4000
Lead	ug/L	MW-13	10/15/2024	ND	4.0000		1.0000
Nickel	ug/L	MW-13	10/15/2024		5.8000		10.7500
Selenium	ug/L	MW-13	10/15/2024	ND	4.0000		5.0000
Silver	ug/L	MW-13	10/15/2024	ND	4.0000		1.0000
Thallium	ug/L	MW-13	10/15/2024	ND	2.0000		1.0000
Vanadium	ug/L	MW-13	10/15/2024	ND	20.0000		3.0000
Zinc	ug/L	MW-13	10/15/2024	ND	20.0000		34.1000
Antimony	ug/L	MW-23	10/15/2024	ND	2.0000		6.5100
Arsenic	ug/L	MW-23	10/15/2024	ND	4.0000		1.3500
Barium	ug/L	MW-23	10/15/2024		23.3000		293.2723
Beryllium	ug/L	MW-23	10/15/2024	ND	4.0000		1.0000
Cadmium	ug/L	MW-23	10/15/2024	ND	0.8000		1.5800
Chromium	ug/L	MW-23	10/15/2024	ND	8.0000		5.0000
Cobalt	ug/L	MW-23	10/15/2024		0.4000		1.7300
Copper	ug/L	MW-23	10/15/2024	ND	4.0000		16.4000
Lead	ug/L	MW-23	10/15/2024	ND	4.0000		1.0000
Nickel	ug/L	MW-23	10/15/2024	ND	4.0000		10.7500
Selenium	ug/L	MW-23	10/15/2024	ND	4.0000		5.0000
Silver	ug/L	MW-23	10/15/2024	ND	4.0000		1.0000
Thallium	ug/L	MW-23	10/15/2024	ND	2.0000		1.0000
Vanadium	ug/L	MW-23	10/15/2024	ND	20.0000		3.0000
Zinc	ug/L	MW-23	10/15/2024	ND	20.0000		34.1000
Antimony	ug/L	MW-36	10/15/2024	ND	2.0000		6.5100
Arsenic	ug/L	MW-36	10/15/2024	ND	4.0000		1.3500
Barium	ug/L	MW-36	10/15/2024		146.0000		293.2723
Beryllium	ug/L	MW-36	10/15/2024	ND	4.0000	**	1.0000
Cadmium	ug/L	MW-36	10/15/2024	ND	0.8000	**	1.5800
Chromium	ug/L	MW-36	10/15/2024	ND	8.0000	**	5.0000
Cobalt	ug/L	MW-36	10/15/2024		0.8000	**	1.7300
Copper	ug/L	MW-36	10/15/2024	ND	4.0000		16.4000
Lead	ug/L	MW-36	10/15/2024	ND	4.0000	**	1.0000
Nickel	ug/L	MW-36	10/15/2024		6.6000	**	10.7500
Selenium	ug/L	MW-36	10/15/2024	ND	4.0000		5.0000
Silver	ug/L	MW-36	10/15/2024	ND	4.0000		1.0000
Thallium	ug/L	MW-36	10/15/2024	ND	2.0000		1.0000
Vanadium	ug/L	MW-36	10/15/2024	ND	20.0000	**	3.0000
Zinc	ug/L	MW-36	10/15/2024	ND	20.0000		34.1000

* - Current value failed - awaiting verification.
** - Current value passed - previous exceedance not verified.
*** - Current value failed - exceedance verified.
**** - Current value passed - awaiting one more verification.
***** - Insufficient background data to compute prediction limit.
ND = Not Detected, Result = detection limit.

Table 3

Detection Frequencies in Upgradient and Downgradient Wells

Constituent	Upgradient Detect	Upgradient N	Upgradient Proportion	Downgradient Detect	Downgradient N	Downgradient Proportion
Antimony	5	34	0.147	3	112	0.027
Arsenic	1	34	0.029	58	112	0.518
Barium	36	36	1.000	112	112	1.000
Beryllium	0	33	0.000	21	112	0.188
Cadmium	7	36	0.194	61	112	0.545
Chromium	0	35	0.000	3	112	0.027
Cobalt	2	36	0.056	78	112	0.696
Copper	1	36	0.028	23	112	0.205
Lead	2	36	0.056	38	112	0.339
Nickel	1	36	0.028	51	113	0.451
Selenium	0	36	0.000	17	112	0.152
Silver	0	36	0.000	1	112	0.009
Thallium	0	36	0.000	5	112	0.045
Vanadium	0	36	0.000	18	112	0.161
Zinc	7	34	0.206	44	112	0.393

N = Total number of measurements in all wells.
Detect = Total number of detections in all wells.
Proportion = Detect/N.

Table 4

Shapiro-Wilk Multiple Group Test of Normality

Constituent	Detect	N	Detect Freq	G raw	G log	G cbrt	G sqrt	G sqr	G cub	Crit Value	Dist Form	Model Type
Antimony	5	34	0.147	0.539	0.087					2.326	normal	nonpar
Arsenic	1	34	0.029									nonpar
Barium	36	36	1.000	0.335	0.604					2.326	normal	normal
Beryllium	0	33	0.000									nonpar
Cadmium	7	36	0.194	1.097	0.664					2.326	normal	nonpar
Chromium	0	35	0.000									nonpar
Cobalt	2	36	0.056									nonpar
Copper	1	36	0.028									nonpar
Lead	2	36	0.056									nonpar
Nickel	1	36	0.028									nonpar
Selenium	0	36	0.000									nonpar
Silver	0	36	0.000									nonpar
Thallium	0	36	0.000									nonpar
Vanadium	0	36	0.000									nonpar
Zinc	7	34	0.206	0.243	0.714					2.326	normal	nonpar

* - Distribution override for that constituent.
Fit to distribution is confirmed if G <= critical value.
Model type may not match distributional form when detection frequency < 50%.

Table 5

Summary Statistics and Prediction Limits

Constituent	Units	Detect	N	Mean	SD	alpha	Factor	Pred Limit	Type		Conf
Antimony	ug/L	5	34					6.5100	nonpar		0.99
Arsenic	ug/L	1	34					1.3500	nonpar		0.99
Barium	ug/L	36	36	246.0694	19.1013	0.0100	2.4712	293.2723	normal		
Beryllium	ug/L	0	33					1.0000	nonpar	***	0.99
Cadmium	ug/L	7	36					1.5800	nonpar		0.99
Chromium	ug/L	0	35					5.0000	nonpar	***	0.99
Cobalt	ug/L	2	36					1.7300	nonpar		0.99
Copper	ug/L	1	36					16.4000	nonpar		0.99
Lead	ug/L	2	36					1.0000	nonpar	***	0.99
Nickel	ug/L	1	36					10.7500	nonpar		0.99
Selenium	ug/L	0	36					5.0000	nonpar	***	0.99
Silver	ug/L	0	36					1.0000	nonpar	***	0.99
Thallium	ug/L	0	36					1.0000	nonpar	***	0.99
Vanadium	ug/L	0	36					3.0000	nonpar	***	0.99
Zinc	ug/L	7	34					34.1000	nonpar		0.99

Conf = confidence level for passing initial test or one verification resample at all downgradient wells for a single constituent (nonparametric test only).
* - Insufficient Data.
** - Calculated limit raised to Manual Reporting Limit.
*** - Nonparametric limit based on ND value.
For transformed data, mean and SD in transformed units and prediction limit in original units.
All sample sizes and statistics are based on outlier free data.
For nonparametric limits, median reporting limits are substituted for extreme reporting limit values.

Table 6

Dixon's Test Outliers
1% Significance Level

Constituent	Units	Well	Date	Result	ND Qualifier	Date Range	N	Critical Value
Antimony	ug/L	MW-22	03/28/2016	236.0000		02/11/2008-10/15/2024	35	0.4318
Arsenic	ug/L	MW-22	04/26/2012	4.0000	< 4.0000	02/11/2008-10/15/2024	36	0.4318
Arsenic	ug/L	MW-22	10/15/2024	4.0000	< 4.0000	02/11/2008-10/15/2024	36	0.4318
Beryllium	ug/L	MW-22	04/30/2008	0.0280	< 0.0280	02/11/2008-10/15/2024	36	0.4273
Beryllium	ug/L	MW-22	04/26/2012	4.0000	< 4.0000	02/11/2008-10/15/2024	36	0.4318
Beryllium	ug/L	MW-22	10/15/2024	4.0000	< 4.0000	02/11/2008-10/15/2024	36	0.4318
Chromium	ug/L	MW-22	03/28/2016	1.0000	< 1.0000	02/11/2008-10/15/2024	36	0.4273
Zinc	ug/L	MW-22	04/30/2008	5.2700	< 5.2700	02/11/2008-10/15/2024	36	0.4273
Zinc	ug/L	MW-22	07/29/2015	97.4000		02/11/2008-10/15/2024	36	0.4273

N = Total number of independent measurements in background at each well.
Date Range = Dates of the first and last measurements included in background at each well.
Critical Value depends on the significance level and on N-1 when the two most extreme values are tested or N for the most extreme value.

Table 8

Historical Downgradient Data for Constituent-Well Combinations that Failed the Current Statistical Evaluation or are in Verification Resampling Mode

Constituent	Units	Well	Date		Result		Pred. Limit
Arsenic	ug/L	MW-11	02/11/2008		3.0100	*	1.3500
Arsenic	ug/L	MW-11	04/30/2008		5.4300	*	1.3500
Arsenic	ug/L	MW-11	07/09/2008		4.2200	*	1.3500
Arsenic	ug/L	MW-11	09/11/2008		2.1500	*	1.3500
Arsenic	ug/L	MW-11	12/10/2008		5.6000	*	1.3500
Arsenic	ug/L	MW-11	03/03/2009		3.8800	*	1.3500
Arsenic	ug/L	MW-11	08/21/2009		3.0000	*	1.3500
Arsenic	ug/L	MW-11	10/21/2009		3.9700	*	1.3500
Arsenic	ug/L	MW-11	03/11/2010		1.0900		1.3500
Arsenic	ug/L	MW-11	08/31/2010	ND	1.0000		1.3500
Arsenic	ug/L	MW-11	02/16/2011	ND	1.0000		1.3500
Arsenic	ug/L	MW-11	10/27/2011		3.8800	*	1.3500
Arsenic	ug/L	MW-11	04/26/2012		10.2000	*	1.3500
Arsenic	ug/L	MW-11	10/09/2012		3.5400	*	1.3500
Arsenic	ug/L	MW-11	02/20/2013		4.1200	*	1.3500
Arsenic	ug/L	MW-11	10/03/2013		17.2500	*	1.3500
Arsenic	ug/L	MW-11	04/22/2014		7.1300	*	1.3500
Arsenic	ug/L	MW-11	10/14/2014		4.5600	*	1.3500
Arsenic	ug/L	MW-11	05/12/2015		5.2500	*	1.3500
Arsenic	ug/L	MW-11	07/29/2015		3.3800	*	1.3500
Arsenic	ug/L	MW-11	02/15/2016		3.0200	*	1.3500
Arsenic	ug/L	MW-11	10/31/2016		3.1400	*	1.3500
Arsenic	ug/L	MW-11	03/27/2017		3.6950	*	1.3500
Arsenic	ug/L	MW-11	11/13/2017		2.8200	*	1.3500
Arsenic	ug/L	MW-11	06/06/2018		3.0700	*	1.3500
Arsenic	ug/L	MW-11	11/26/2018		3.7400	*	1.3500
Arsenic	ug/L	MW-11	03/18/2019		2.5100	*	1.3500
Arsenic	ug/L	MW-11	12/02/2019		2.1900	*	1.3500
Arsenic	ug/L	MW-11	03/30/2020		2.1300	*	1.3500
Arsenic	ug/L	MW-11	11/17/2020		3.9100	*	1.3500
Arsenic	ug/L	MW-11	05/06/2021		2.8300	*	1.3500
Arsenic	ug/L	MW-11	10/07/2021		11.0000	*	1.3500
Arsenic	ug/L	MW-11	04/06/2022		7.5300	*	1.3500
Arsenic	ug/L	MW-11	08/23/2022		2.3000	*	1.3500
Arsenic	ug/L	MW-11	03/08/2023		13.5000	*	1.3500
Arsenic	ug/L	MW-11	09/13/2023		14.5000	*	1.3500
Arsenic	ug/L	MW-11	05/29/2024		5.1700	*	1.3500
Arsenic	ug/L	MW-11	10/15/2024		6.6000	*	1.3500
Barium	ug/L	MW-11	02/11/2008		786.0000	*	293.2723
Barium	ug/L	MW-11	04/30/2008		963.0000	*	293.2723
Barium	ug/L	MW-11	07/09/2008		915.0000	*	293.2723
Barium	ug/L	MW-11	09/11/2008		606.0000	*	293.2723
Barium	ug/L	MW-11	12/10/2008		754.0000	*	293.2723
Barium	ug/L	MW-11	03/03/2009		1480.0000	*	293.2723
Barium	ug/L	MW-11	08/21/2009		471.0000	*	293.2723
Barium	ug/L	MW-11	10/21/2009		714.0000	*	293.2723
Barium	ug/L	MW-11	03/11/2010		347.0000	*	293.2723
Barium	ug/L	MW-11	08/31/2010		148.0000		293.2723
Barium	ug/L	MW-11	02/16/2011		332.0000	*	293.2723
Barium	ug/L	MW-11	10/27/2011		351.0000	*	293.2723
Barium	ug/L	MW-11	04/26/2012		423.0000	*	293.2723
Barium	ug/L	MW-11	10/09/2012		330.0000	*	293.2723
Barium	ug/L	MW-11	02/20/2013		468.0000	*	293.2723
Barium	ug/L	MW-11	10/03/2013		534.5000	*	293.2723
Barium	ug/L	MW-11	04/22/2014		605.0000	*	293.2723
Barium	ug/L	MW-11	10/14/2014		561.0000	*	293.2723
Barium	ug/L	MW-11	05/12/2015		582.0000	*	293.2723
Barium	ug/L	MW-11	07/29/2015		529.0000	*	293.2723
Barium	ug/L	MW-11	02/15/2016		510.0000	*	293.2723
Barium	ug/L	MW-11	10/31/2016		514.0000	*	293.2723
Barium	ug/L	MW-11	03/27/2017		529.0000	*	293.2723
Barium	ug/L	MW-11	11/13/2017		448.0000	*	293.2723
Barium	ug/L	MW-11	06/06/2018		434.0000	*	293.2723
Barium	ug/L	MW-11	11/26/2018		462.0000	*	293.2723
Barium	ug/L	MW-11	03/18/2019		456.0000	*	293.2723
Barium	ug/L	MW-11	12/02/2019		410.0000	*	293.2723
Barium	ug/L	MW-11	03/30/2020		416.0000	*	293.2723
Barium	ug/L	MW-11	11/17/2020		397.0000	*	293.2723
Barium	ug/L	MW-11	05/06/2021		465.0000	*	293.2723
Barium	ug/L	MW-11	10/07/2021		571.0000	*	293.2723
Barium	ug/L	MW-11	04/06/2022		543.5000	*	293.2723

* - Significantly increased over background.
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ND = Not Detected, Result = detection limit.

Table 8

Historical Downgradient Data for Constituent-Well Combinations that Failed the Current Statistical Evaluation or are in Verification Resampling Mode

Constituent	Units	Well	Date		Result		Pred. Limit
Barium	ug/L	MW-11	08/23/2022		419.0000	*	293.2723
Barium	ug/L	MW-11	03/08/2023		745.0000	*	293.2723
Barium	ug/L	MW-11	09/13/2023		636.0000	*	293.2723
Barium	ug/L	MW-11	05/29/2024		496.0000	*	293.2723
Barium	ug/L	MW-11	10/15/2024		346.0000	*	293.2723
Cobalt	ug/L	MW-11	02/11/2008	ND	20.0000		1.7300
Cobalt	ug/L	MW-11	04/30/2008	ND	1.4000		1.7300
Cobalt	ug/L	MW-11	07/09/2008		20.4000	*	1.7300
Cobalt	ug/L	MW-11	09/11/2008	ND	20.0000		1.7300
Cobalt	ug/L	MW-11	12/10/2008	ND	20.0000		1.7300
Cobalt	ug/L	MW-11	03/03/2009		36.1000	*	1.7300
Cobalt	ug/L	MW-11	08/21/2009	ND	20.0000		1.7300
Cobalt	ug/L	MW-11	10/21/2009	ND	20.0000		1.7300
Cobalt	ug/L	MW-11	03/11/2010		17.2000	*	1.7300
Cobalt	ug/L	MW-11	08/31/2010		5.0700	*	1.7300
Cobalt	ug/L	MW-11	02/16/2011		25.3000	*	1.7300
Cobalt	ug/L	MW-11	10/27/2011		47.8000	*	1.7300
Cobalt	ug/L	MW-11	04/26/2012		42.4000	*	1.7300
Cobalt	ug/L	MW-11	10/09/2012		31.5000	*	1.7300
Cobalt	ug/L	MW-11	02/20/2013		67.4000	*	1.7300
Cobalt	ug/L	MW-11	10/03/2013		60.8500	*	1.7300
Cobalt	ug/L	MW-11	04/22/2014		71.1000	*	1.7300
Cobalt	ug/L	MW-11	10/14/2014		44.1000	*	1.7300
Cobalt	ug/L	MW-11	05/12/2015		54.5000	*	1.7300
Cobalt	ug/L	MW-11	07/29/2015		20.9000	*	1.7300
Cobalt	ug/L	MW-11	02/15/2016		17.6000	*	1.7300
Cobalt	ug/L	MW-11	10/31/2016		8.3700	*	1.7300
Cobalt	ug/L	MW-11	03/27/2017		8.7150	*	1.7300
Cobalt	ug/L	MW-11	11/13/2017		5.6400	*	1.7300
Cobalt	ug/L	MW-11	06/06/2018		5.5100	*	1.7300
Cobalt	ug/L	MW-11	11/26/2018		4.5800	*	1.7300
Cobalt	ug/L	MW-11	03/18/2019		4.1000	*	1.7300
Cobalt	ug/L	MW-11	12/02/2019		3.5400	*	1.7300
Cobalt	ug/L	MW-11	03/30/2020		3.2900	*	1.7300
Cobalt	ug/L	MW-11	11/17/2020		9.9250	*	1.7300
Cobalt	ug/L	MW-11	05/06/2021		9.3200	*	1.7300
Cobalt	ug/L	MW-11	10/07/2021		14.8000	*	1.7300
Cobalt	ug/L	MW-11	04/06/2022		10.7000	*	1.7300
Cobalt	ug/L	MW-11	08/23/2022		6.1900	*	1.7300
Cobalt	ug/L	MW-11	03/08/2023		13.4000	*	1.7300
Cobalt	ug/L	MW-11	09/13/2023		11.3000	*	1.7300
Cobalt	ug/L	MW-11	05/29/2024		6.6300	*	1.7300
Cobalt	ug/L	MW-11	10/15/2024		3.0000	*	1.7300
Beryllium	ug/L	MW-36	08/21/2009		25.5000	*	1.0000
Beryllium	ug/L	MW-36	12/15/2009	ND	15.0000		1.0000
Beryllium	ug/L	MW-36	02/18/2010		15.4000	*	1.0000
Beryllium	ug/L	MW-36	03/11/2010		2.9700	*	1.0000
Beryllium	ug/L	MW-36	05/27/2010		4.0200	*	1.0000
Beryllium	ug/L	MW-36	08/31/2010		30.9000	*	1.0000
Beryllium	ug/L	MW-36	02/16/2011		9.7950	*	1.0000
Beryllium	ug/L	MW-36	07/07/2011		4.6700	*	1.0000
Beryllium	ug/L	MW-36	10/27/2011	ND	1.0000		1.0000
Beryllium	ug/L	MW-36	04/26/2012		42.0000	*	1.0000
Beryllium	ug/L	MW-36	10/09/2012		13.2000	*	1.0000
Beryllium	ug/L	MW-36	02/20/2013		10.1000	*	1.0000
Beryllium	ug/L	MW-36	10/03/2013		17.0000	*	1.0000
Beryllium	ug/L	MW-36	04/22/2014		14.2000	*	1.0000
Beryllium	ug/L	MW-36	10/14/2014		3.3600	*	1.0000
Beryllium	ug/L	MW-36	05/12/2015		5.5900	*	1.0000
Beryllium	ug/L	MW-36	07/29/2015		1.2900	*	1.0000
Beryllium	ug/L	MW-36	02/15/2016	ND	1.0000		1.0000
Beryllium	ug/L	MW-36	10/31/2016		2.2000	*	1.0000
Beryllium	ug/L	MW-36	03/27/2017	ND	1.0000		1.0000
Beryllium	ug/L	MW-36	11/13/2017	ND	1.0000		1.0000
Beryllium	ug/L	MW-36	06/06/2018	ND	1.0000		1.0000
Beryllium	ug/L	MW-36	11/26/2018	ND	1.0000		1.0000
Beryllium	ug/L	MW-36	03/18/2019		1.0185	*	1.0000
Beryllium	ug/L	MW-36	12/02/2019	ND	1.0000		1.0000
Beryllium	ug/L	MW-36	03/30/2020	ND	1.0000		1.0000
Beryllium	ug/L	MW-36	11/17/2020	ND	1.0000		1.0000
Beryllium	ug/L	MW-36	05/06/2021	ND	1.0000		1.0000

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Table 8

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Constituent	Units	Well	Date		Result		Pred. Limit
Beryllium	ug/L	MW-36	10/07/2021	ND	1.0000		1.0000
Beryllium	ug/L	MW-36	04/06/2022	ND	1.0000		1.0000
Beryllium	ug/L	MW-36	08/23/2022	ND	1.0000		1.0000
Beryllium	ug/L	MW-36	03/08/2023	ND	1.0000		1.0000
Beryllium	ug/L	MW-36	09/13/2023	ND	0.9060		1.0000
Beryllium	ug/L	MW-36	05/29/2024		4.1500	*	1.0000
Beryllium	ug/L	MW-36	10/15/2024	ND	4.0000		1.0000
Cadmium	ug/L	MW-36	08/21/2009		8.1400	*	1.5800
Cadmium	ug/L	MW-36	12/15/2009		4.0800	*	1.5800
Cadmium	ug/L	MW-36	02/18/2010		5.8700	*	1.5800
Cadmium	ug/L	MW-36	03/11/2010		1.9400	*	1.5800
Cadmium	ug/L	MW-36	05/27/2010		3.7600	*	1.5800
Cadmium	ug/L	MW-36	08/31/2010		9.3800	*	1.5800
Cadmium	ug/L	MW-36	02/16/2011		9.4300	*	1.5800
Cadmium	ug/L	MW-36	07/07/2011		4.6300	*	1.5800
Cadmium	ug/L	MW-36	10/27/2011		1.5300		1.5800
Cadmium	ug/L	MW-36	04/26/2012		27.8000	*	1.5800
Cadmium	ug/L	MW-36	10/09/2012		6.2000	*	1.5800
Cadmium	ug/L	MW-36	02/20/2013		2.9600	*	1.5800
Cadmium	ug/L	MW-36	10/03/2013		4.5800	*	1.5800
Cadmium	ug/L	MW-36	04/22/2014		4.6300	*	1.5800
Cadmium	ug/L	MW-36	10/14/2014		1.8600	*	1.5800
Cadmium	ug/L	MW-36	05/12/2015		3.3150	*	1.5800
Cadmium	ug/L	MW-36	07/29/2015		0.6760		1.5800
Cadmium	ug/L	MW-36	02/15/2016	ND	1.0000		1.5800
Cadmium	ug/L	MW-36	10/31/2016		0.9730		1.5800
Cadmium	ug/L	MW-36	03/27/2017	ND	1.0000		1.5800
Cadmium	ug/L	MW-36	11/13/2017	ND	1.0000		1.5800
Cadmium	ug/L	MW-36	06/06/2018	ND	1.0000		1.5800
Cadmium	ug/L	MW-36	11/26/2018	ND	0.5000		1.5800
Cadmium	ug/L	MW-36	03/18/2019	ND	1.0000		1.5800
Cadmium	ug/L	MW-36	12/02/2019		0.2080		1.5800
Cadmium	ug/L	MW-36	03/30/2020		0.1380		1.5800
Cadmium	ug/L	MW-36	11/17/2020	ND	0.1000		1.5800
Cadmium	ug/L	MW-36	05/06/2021		0.2420		1.5800
Cadmium	ug/L	MW-36	10/07/2021		0.1450		1.5800
Cadmium	ug/L	MW-36	04/06/2022		0.2400		1.5800
Cadmium	ug/L	MW-36	08/23/2022		0.2640		1.5800
Cadmium	ug/L	MW-36	03/08/2023		0.6970		1.5800
Cadmium	ug/L	MW-36	09/13/2023		0.6560		1.5800
Cadmium	ug/L	MW-36	05/29/2024		2.5300	*	1.5800
Cadmium	ug/L	MW-36	10/15/2024	ND	0.8000		1.5800
Chromium	ug/L	MW-36	08/21/2009	ND	20.0000		5.0000
Chromium	ug/L	MW-36	12/15/2009	ND	20.0000		5.0000
Chromium	ug/L	MW-36	02/18/2010	ND	20.0000		5.0000
Chromium	ug/L	MW-36	03/11/2010	ND	20.0000		5.0000
Chromium	ug/L	MW-36	05/27/2010	ND	20.0000		5.0000
Chromium	ug/L	MW-36	08/31/2010	ND	20.0000		5.0000
Chromium	ug/L	MW-36	02/16/2011	ND	20.0000		5.0000
Chromium	ug/L	MW-36	07/07/2011	ND	20.0000		5.0000
Chromium	ug/L	MW-36	10/27/2011	ND	20.0000		5.0000
Chromium	ug/L	MW-36	04/26/2012		176.0000	*	5.0000
Chromium	ug/L	MW-36	10/09/2012	ND	20.0000		5.0000
Chromium	ug/L	MW-36	02/20/2013	ND	20.0000		5.0000
Chromium	ug/L	MW-36	10/03/2013	ND	10.0000		5.0000
Chromium	ug/L	MW-36	04/22/2014	ND	10.0000		5.0000
Chromium	ug/L	MW-36	10/14/2014	ND	20.0000		5.0000
Chromium	ug/L	MW-36	05/12/2015	ND	3.0000		5.0000
Chromium	ug/L	MW-36	07/29/2015	ND	5.0000		5.0000
Chromium	ug/L	MW-36	02/15/2016	ND	5.0000		5.0000
Chromium	ug/L	MW-36	10/31/2016	ND	2.0000		5.0000
Chromium	ug/L	MW-36	03/27/2017	ND	5.0000		5.0000
Chromium	ug/L	MW-36	11/13/2017	ND	5.0000		5.0000
Chromium	ug/L	MW-36	06/06/2018		8.3800	*	5.0000
Chromium	ug/L	MW-36	11/26/2018	ND	5.0000		5.0000
Chromium	ug/L	MW-36	03/18/2019	ND	2.0000		5.0000
Chromium	ug/L	MW-36	12/02/2019	ND	5.0000		5.0000
Chromium	ug/L	MW-36	03/30/2020	ND	5.0000		5.0000
Chromium	ug/L	MW-36	11/17/2020	ND	5.0000		5.0000
Chromium	ug/L	MW-36	05/06/2021	ND	5.0000		5.0000
Chromium	ug/L	MW-36	10/07/2021	ND	5.0000		5.0000

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Constituent	Units	Well	Date		Result		Pred. Limit
Chromium	ug/L	MW-36	04/06/2022	ND	5.0000		5.0000
Chromium	ug/L	MW-36	08/23/2022	ND	5.0000		5.0000
Chromium	ug/L	MW-36	03/08/2023	ND	4.7500		5.0000
Chromium	ug/L	MW-36	09/13/2023	ND	2.5700		5.0000
Chromium	ug/L	MW-36	05/29/2024		44.9000	*	5.0000
Chromium	ug/L	MW-36	10/15/2024	ND	8.0000		5.0000
Cobalt	ug/L	MW-36	08/21/2009		332.0000	*	1.7300
Cobalt	ug/L	MW-36	12/15/2009		97.2000	*	1.7300
Cobalt	ug/L	MW-36	02/18/2010		96.2000	*	1.7300
Cobalt	ug/L	MW-36	03/11/2010		35.0000	*	1.7300
Cobalt	ug/L	MW-36	05/27/2010		65.1000	*	1.7300
Cobalt	ug/L	MW-36	08/31/2010		164.0000	*	1.7300
Cobalt	ug/L	MW-36	02/16/2011		45.4500	*	1.7300
Cobalt	ug/L	MW-36	07/07/2011		78.0000	*	1.7300
Cobalt	ug/L	MW-36	10/27/2011		10.8000	*	1.7300
Cobalt	ug/L	MW-36	04/26/2012		652.0000	*	1.7300
Cobalt	ug/L	MW-36	10/09/2012		31.0000	*	1.7300
Cobalt	ug/L	MW-36	02/20/2013		41.3000	*	1.7300
Cobalt	ug/L	MW-36	10/03/2013		70.2000	*	1.7300
Cobalt	ug/L	MW-36	04/22/2014		47.2000	*	1.7300
Cobalt	ug/L	MW-36	10/14/2014		67.5000	*	1.7300
Cobalt	ug/L	MW-36	05/12/2015		92.0500	*	1.7300
Cobalt	ug/L	MW-36	07/29/2015		6.7100	*	1.7300
Cobalt	ug/L	MW-36	02/15/2016		4.2200	*	1.7300
Cobalt	ug/L	MW-36	10/31/2016		9.5300	*	1.7300
Cobalt	ug/L	MW-36	03/27/2017		1.4000		1.7300
Cobalt	ug/L	MW-36	11/13/2017		1.1400		1.7300
Cobalt	ug/L	MW-36	06/06/2018		8.2100	*	1.7300
Cobalt	ug/L	MW-36	11/26/2018	ND	1.0000		1.7300
Cobalt	ug/L	MW-36	03/18/2019		13.9000	*	1.7300
Cobalt	ug/L	MW-36	12/02/2019		3.8500	*	1.7300
Cobalt	ug/L	MW-36	03/30/2020		0.7160		1.7300
Cobalt	ug/L	MW-36	11/17/2020	ND	0.5000		1.7300
Cobalt	ug/L	MW-36	05/06/2021		1.3300		1.7300
Cobalt	ug/L	MW-36	10/07/2021		1.1600		1.7300
Cobalt	ug/L	MW-36	04/06/2022		2.3100	*	1.7300
Cobalt	ug/L	MW-36	08/23/2022		2.5300	*	1.7300
Cobalt	ug/L	MW-36	03/08/2023		1.5850		1.7300
Cobalt	ug/L	MW-36	09/13/2023		3.8700	*	1.7300
Cobalt	ug/L	MW-36	05/29/2024		24.6000	*	1.7300
Cobalt	ug/L	MW-36	10/15/2024		0.8000		1.7300
Lead	ug/L	MW-36	08/21/2009		4.9400	*	1.0000
Lead	ug/L	MW-36	12/15/2009		26.6000	*	1.0000
Lead	ug/L	MW-36	02/18/2010		26.2000	*	1.0000
Lead	ug/L	MW-36	03/11/2010		24.3000	*	1.0000
Lead	ug/L	MW-36	05/27/2010		20.3000	*	1.0000
Lead	ug/L	MW-36	08/31/2010		27.1000	*	1.0000
Lead	ug/L	MW-36	02/16/2011		12.9000	*	1.0000
Lead	ug/L	MW-36	07/07/2011		18.9000	*	1.0000
Lead	ug/L	MW-36	10/27/2011		11.0000	*	1.0000
Lead	ug/L	MW-36	04/26/2012		411.0000	*	1.0000
Lead	ug/L	MW-36	10/09/2012		13.6000	*	1.0000
Lead	ug/L	MW-36	02/20/2013		16.2000	*	1.0000
Lead	ug/L	MW-36	10/03/2013		17.8000	*	1.0000
Lead	ug/L	MW-36	04/22/2014		15.8000	*	1.0000
Lead	ug/L	MW-36	10/14/2014		37.5000	*	1.0000
Lead	ug/L	MW-36	05/12/2015		33.0500	*	1.0000
Lead	ug/L	MW-36	07/29/2015		6.7100	*	1.0000
Lead	ug/L	MW-36	02/15/2016		4.2600	*	1.0000
Lead	ug/L	MW-36	10/31/2016		8.8600	*	1.0000
Lead	ug/L	MW-36	03/27/2017		2.0900	*	1.0000
Lead	ug/L	MW-36	11/13/2017		1.5400	*	1.0000
Lead	ug/L	MW-36	06/06/2018		6.5500	*	1.0000
Lead	ug/L	MW-36	11/26/2018	ND	1.0000		1.0000
Lead	ug/L	MW-36	03/18/2019		7.5050	*	1.0000
Lead	ug/L	MW-36	12/02/2019		3.6100	*	1.0000
Lead	ug/L	MW-36	03/30/2020	ND	0.5000		1.0000
Lead	ug/L	MW-36	11/17/2020	ND	1.0000		1.0000
Lead	ug/L	MW-36	05/06/2021	ND	0.5000		1.0000
Lead	ug/L	MW-36	10/07/2021	ND	0.5000		1.0000
Lead	ug/L	MW-36	04/06/2022	ND	0.4570		1.0000

* - Significantly increased over background.
** - Detect at limit for 100% NDs in background (NPPL only).
*** - Manual exclusion.
ND = Not Detected, Result = detection limit.

Table 8

Historical Downgradient Data for Constituent-Well Combinations that Failed the Current Statistical Evaluation or are in Verification Resampling Mode

Constituent	Units	Well	Date		Result		Pred. Limit
Lead	ug/L	MW-36	08/23/2022	ND	0.5000		1.0000
Lead	ug/L	MW-36	03/08/2023	ND	0.3860		1.0000
Lead	ug/L	MW-36	09/13/2023		2.1500	*	1.0000
Lead	ug/L	MW-36	05/29/2024		6.5300	*	1.0000
Lead	ug/L	MW-36	10/15/2024	ND	4.0000		1.0000
Nickel	ug/L	MW-36	08/21/2009		199.0000	*	10.7500
Nickel	ug/L	MW-36	12/15/2009		78.1000	*	10.7500
Nickel	ug/L	MW-36	02/18/2010		95.4000	*	10.7500
Nickel	ug/L	MW-36	03/11/2010	ND	50.0000		10.7500
Nickel	ug/L	MW-36	05/27/2010		52.7000	*	10.7500
Nickel	ug/L	MW-36	08/31/2010		188.0000	*	10.7500
Nickel	ug/L	MW-36	02/16/2011		72.9500	*	10.7500
Nickel	ug/L	MW-36	07/07/2011		77.5000	*	10.7500
Nickel	ug/L	MW-36	10/27/2011	ND	50.0000		10.7500
Nickel	ug/L	MW-36	04/26/2012		744.0000	*	10.7500
Nickel	ug/L	MW-36	10/09/2012		54.7000	*	10.7500
Nickel	ug/L	MW-36	02/20/2013		68.8000	*	10.7500
Nickel	ug/L	MW-36	10/03/2013		71.2000	*	10.7500
Nickel	ug/L	MW-36	04/22/2014		58.6000	*	10.7500
Nickel	ug/L	MW-36	10/14/2014	ND	10.0000		10.7500
Nickel	ug/L	MW-36	05/12/2015		62.6000	*	10.7500
Nickel	ug/L	MW-36	07/29/2015		9.4300		10.7500
Nickel	ug/L	MW-36	02/15/2016		6.3900		10.7500
Nickel	ug/L	MW-36	10/31/2016		22.5000	*	10.7500
Nickel	ug/L	MW-36	03/27/2017	ND	2.0000		10.7500
Nickel	ug/L	MW-36	11/13/2017	ND	3.0000		10.7500
Nickel	ug/L	MW-36	06/06/2018		10.7000		10.7500
Nickel	ug/L	MW-36	11/26/2018	ND	5.0000		10.7500
Nickel	ug/L	MW-36	03/18/2019		4.1050		10.7500
Nickel	ug/L	MW-36	12/02/2019	ND	3.0000		10.7500
Nickel	ug/L	MW-36	03/30/2020	ND	3.0000		10.7500
Nickel	ug/L	MW-36	11/17/2020	ND	5.0000		10.7500
Nickel	ug/L	MW-36	05/06/2021	ND	4.1500		10.7500
Nickel	ug/L	MW-36	10/07/2021	ND	4.5000		10.7500
Nickel	ug/L	MW-36	04/06/2022		6.3300		10.7500
Nickel	ug/L	MW-36	08/23/2022		5.3500		10.7500
Nickel	ug/L	MW-36	03/08/2023		8.0700		10.7500
Nickel	ug/L	MW-36	09/13/2023		18.3000	*	10.7500
Nickel	ug/L	MW-36	05/29/2024		122.0000	*	10.7500
Nickel	ug/L	MW-36	10/15/2024		6.6000		10.7500
Vanadium	ug/L	MW-36	08/21/2009		132.0000	*	3.0000
Vanadium	ug/L	MW-36	12/15/2009		82.5000	*	3.0000
Vanadium	ug/L	MW-36	02/18/2010		77.1000	*	3.0000
Vanadium	ug/L	MW-36	03/11/2010	ND	50.0000		3.0000
Vanadium	ug/L	MW-36	05/27/2010	ND	50.0000		3.0000
Vanadium	ug/L	MW-36	08/31/2010		78.7000	*	3.0000
Vanadium	ug/L	MW-36	02/16/2011		70.3500	*	3.0000
Vanadium	ug/L	MW-36	07/07/2011	ND	50.0000		3.0000
Vanadium	ug/L	MW-36	10/27/2011	ND	50.0000		3.0000
Vanadium	ug/L	MW-36	04/26/2012		889.0000	*	3.0000
Vanadium	ug/L	MW-36	10/09/2012		96.7000	*	3.0000
Vanadium	ug/L	MW-36	02/20/2013		88.6000	*	3.0000
Vanadium	ug/L	MW-36	10/03/2013		69.1000	*	3.0000
Vanadium	ug/L	MW-36	04/22/2014		110.0000	*	3.0000
Vanadium	ug/L	MW-36	10/14/2014	ND	10.0000		3.0000
Vanadium	ug/L	MW-36	05/12/2015		58.5500	*	3.0000
Vanadium	ug/L	MW-36	07/29/2015		19.0000	*	3.0000
Vanadium	ug/L	MW-36	02/15/2016		11.5000	*	3.0000
Vanadium	ug/L	MW-36	10/31/2016		25.4000	*	3.0000
Vanadium	ug/L	MW-36	03/27/2017	ND	4.0000		3.0000
Vanadium	ug/L	MW-36	11/13/2017	ND	3.0000		3.0000
Vanadium	ug/L	MW-36	06/06/2018		23.1000	*	3.0000
Vanadium	ug/L	MW-36	11/26/2018	ND	2.0000		3.0000
Vanadium	ug/L	MW-36	03/18/2019		12.7500	*	3.0000
Vanadium	ug/L	MW-36	12/02/2019	ND	5.0000		3.0000
Vanadium	ug/L	MW-36	03/30/2020	ND	2.0000		3.0000
Vanadium	ug/L	MW-36	11/17/2020	ND	2.0000		3.0000
Vanadium	ug/L	MW-36	05/06/2021	ND	5.0000		3.0000
Vanadium	ug/L	MW-36	10/07/2021	ND	5.0000		3.0000
Vanadium	ug/L	MW-36	04/06/2022	ND	1.2400		3.0000
Vanadium	ug/L	MW-36	08/23/2022	ND	5.0000		3.0000

* - Significantly increased over background.
** - Detect at limit for 100% NDs in background (NPPL only).
*** - Manual exclusion.
ND = Not Detected, Result = detection limit.

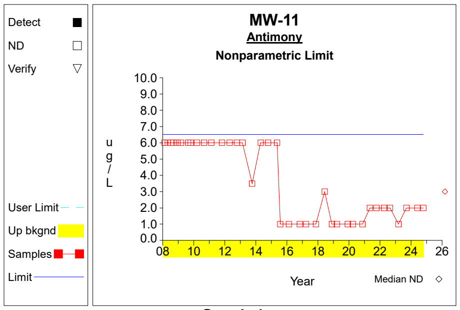
Table 8

Historical Downgradient Data for Constituent-Well Combinations that Failed the Current Statistical Evaluation or are in Verification Resampling Mode

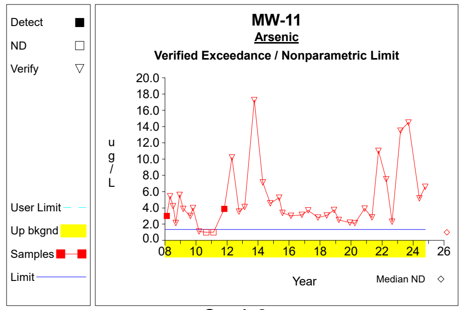
Constituent	Units	Well	Date		Result		Pred. Limit
Vanadium	ug/L	MW-36	03/08/2023	ND	5.0000		3.0000
Vanadium	ug/L	MW-36	09/13/2023		10.1000	*	3.0000
Vanadium	ug/L	MW-36	05/29/2024		30.7000	*	3.0000
Vanadium	ug/L	MW-36	10/15/2024	ND	20.0000		3.0000

* - Significantly increased over background.
** - Detect at limit for 100% NDs in background (NPPL only).
*** - Manual exclusion.
ND = Not Detected, Result = detection limit.

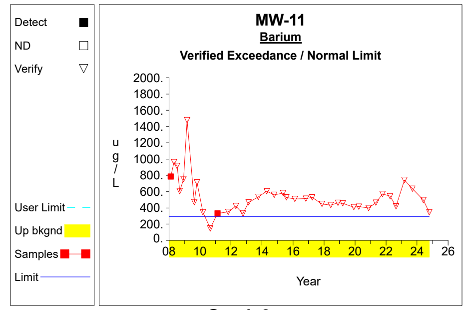
Up vs. Down Prediction Limits



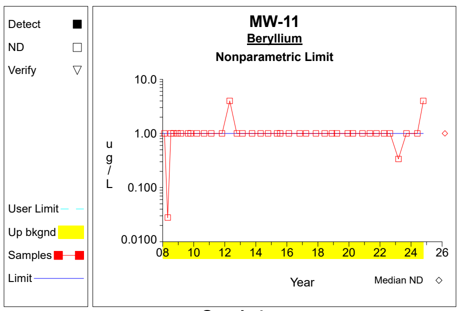
Graph 1



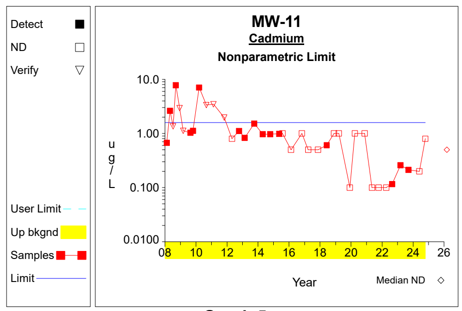
Graph 2



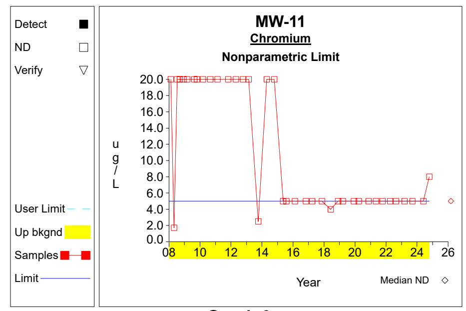
Graph 3



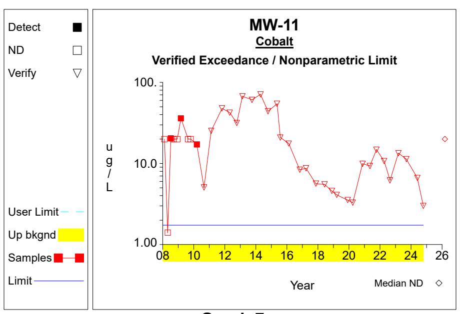
Graph 4



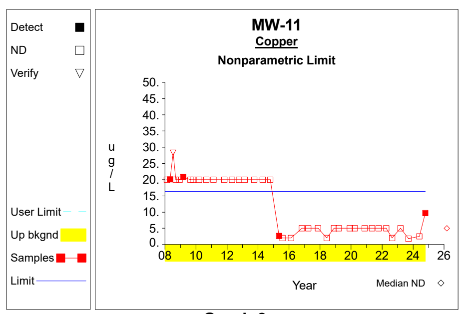
Graph 5



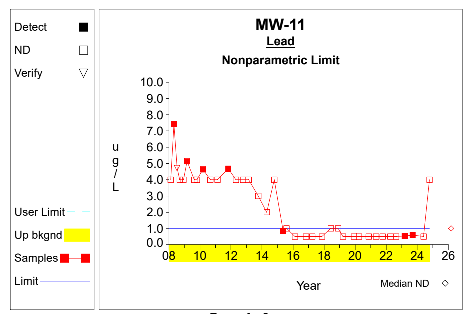
Graph 6



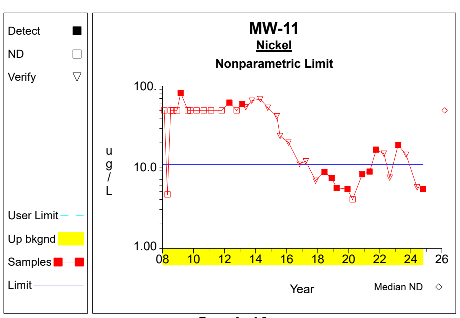
Graph 7



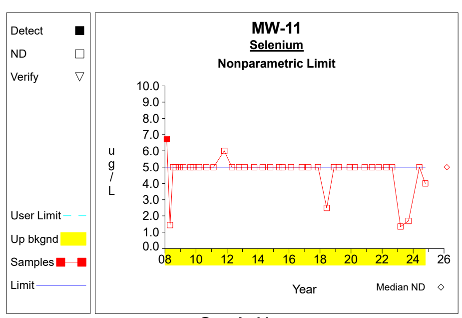
Graph 8



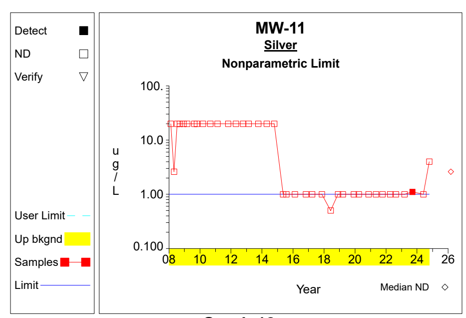
Graph 9



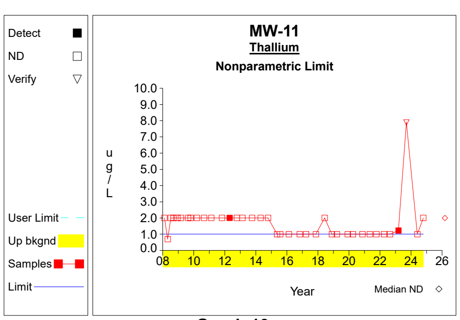
Graph 10



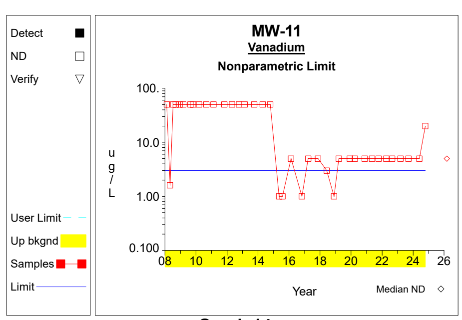
Graph 11



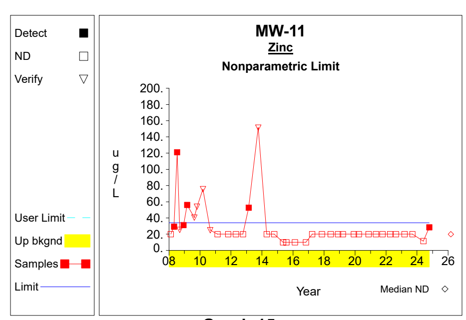
Graph 12



Graph 13



Graph 14



Graph 15

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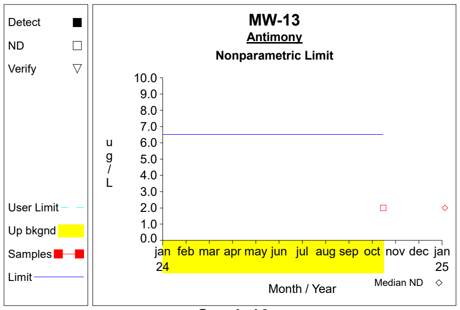
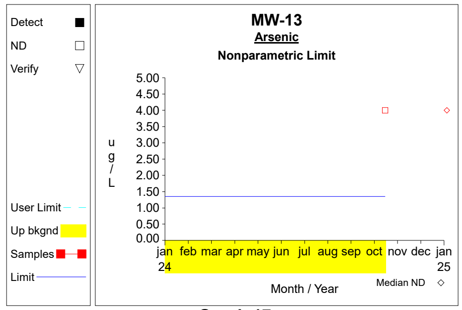
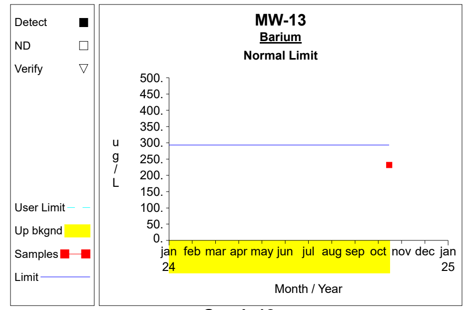
Up vs. Down Prediction Limits



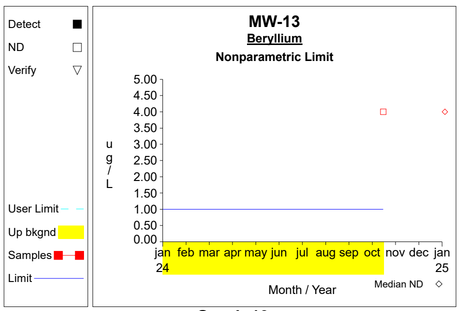
Graph 16



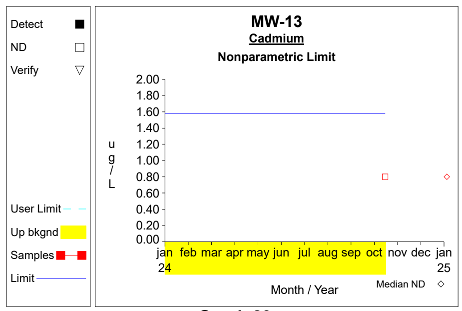
Graph 17



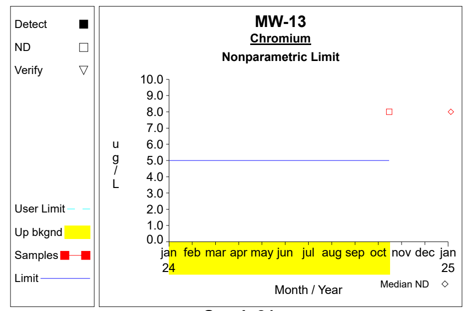
Graph 18



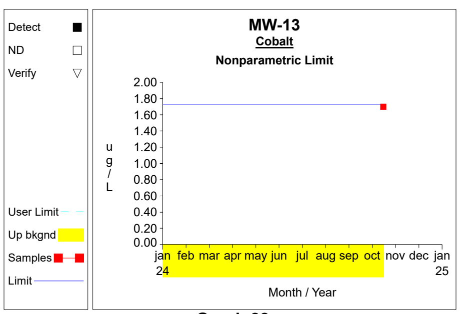
Graph 19



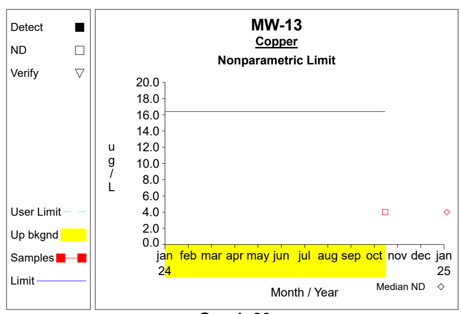
Graph 20



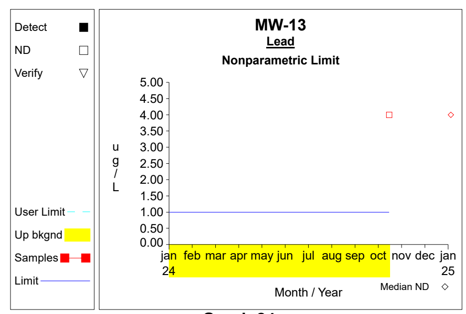
Graph 21



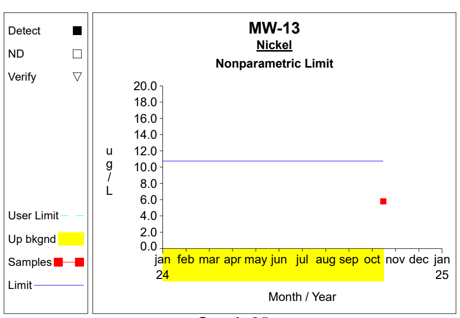
Graph 22



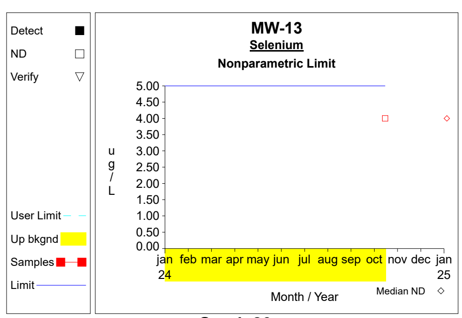
Graph 23



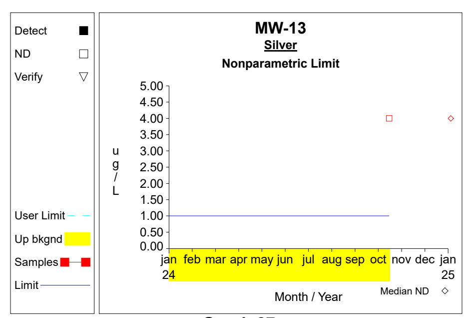
Graph 24



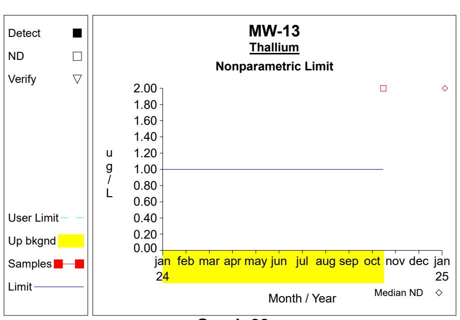
Graph 25



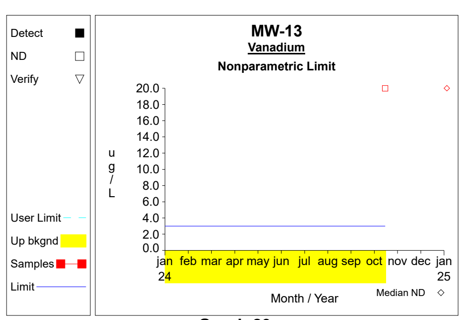
Graph 26



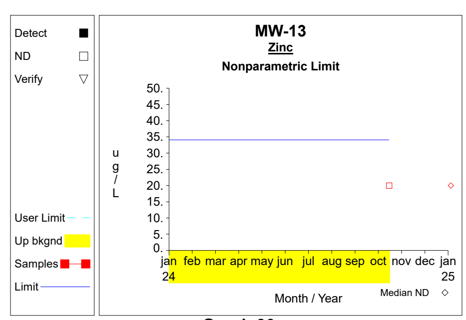
Graph 27



Graph 28



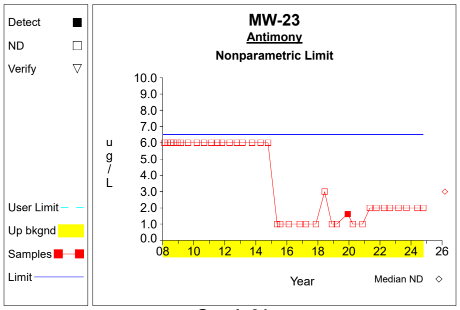
Graph 29



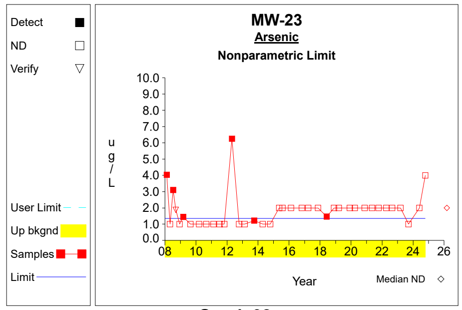
Graph 30

Cass County [GWDak] December 2024

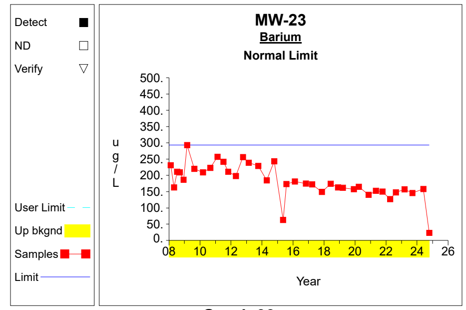
Up vs. Down Prediction Limits



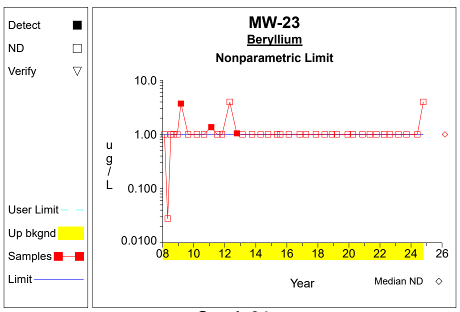
Graph 31



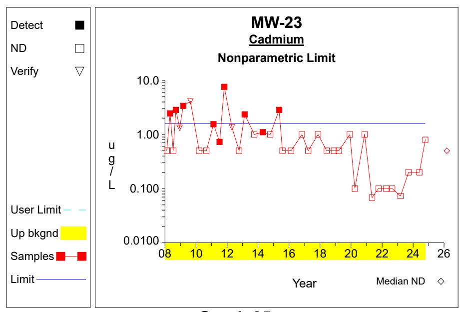
Graph 32



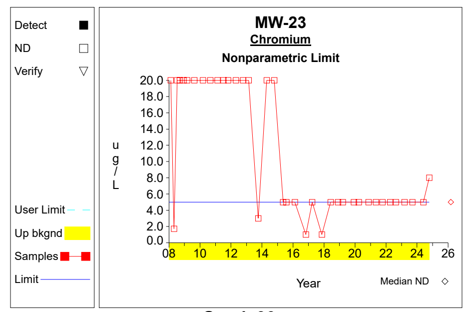
Graph 33



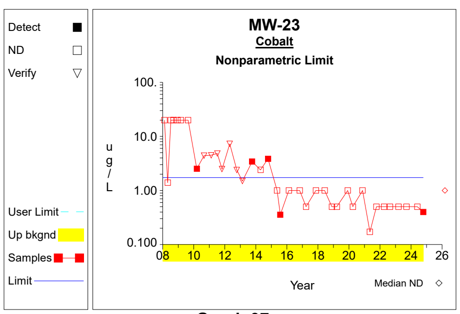
Graph 34



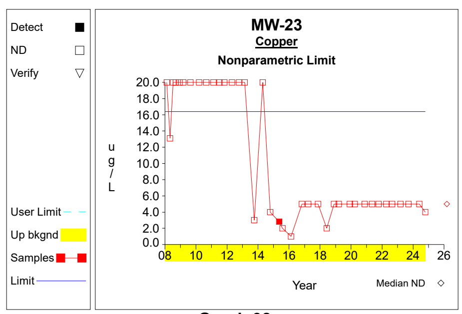
Graph 35



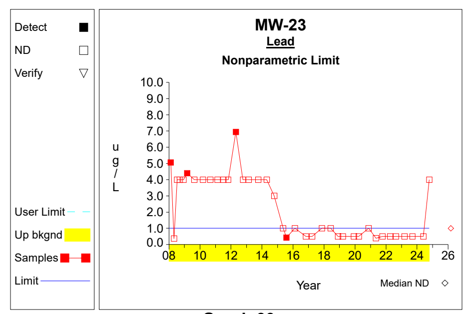
Graph 36



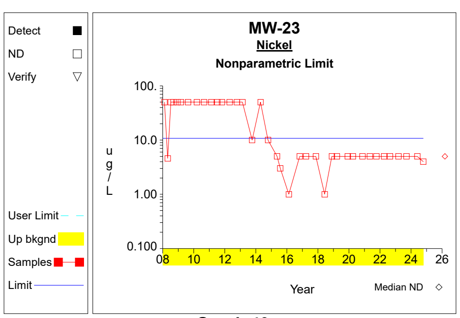
Graph 37



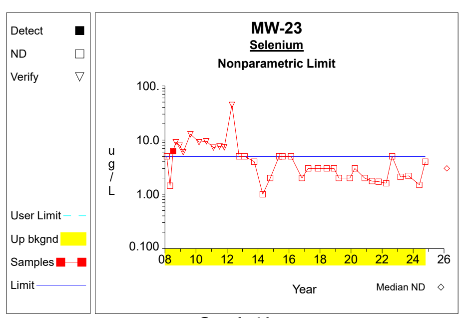
Graph 38



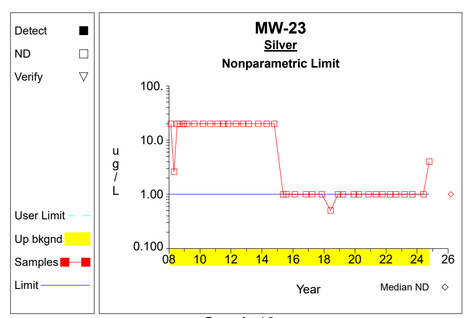
Graph 39



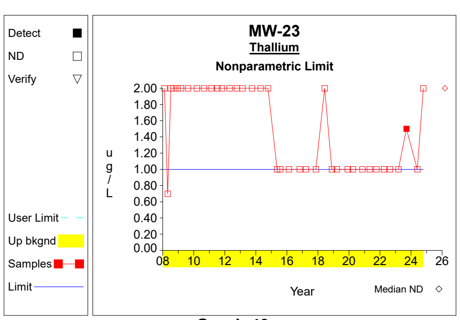
Graph 40



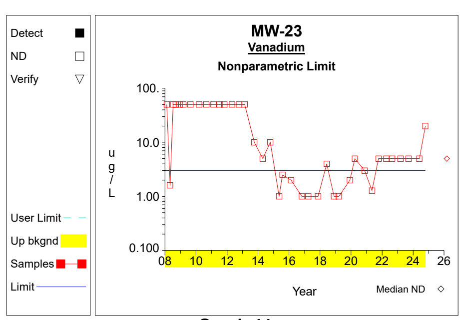
Graph 41



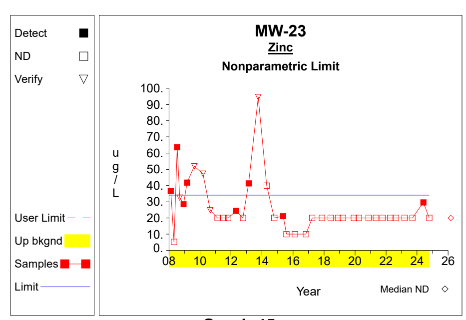
Graph 42



Graph 43



Graph 44



Graph 45

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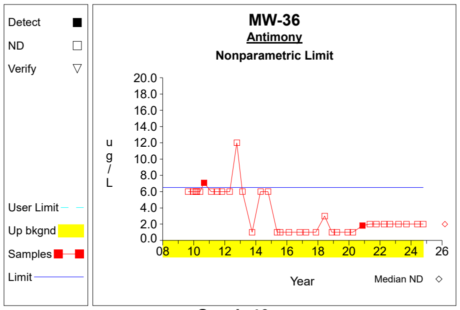
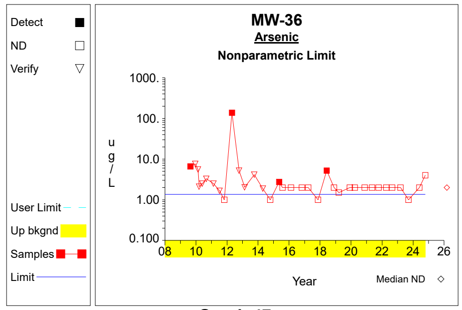
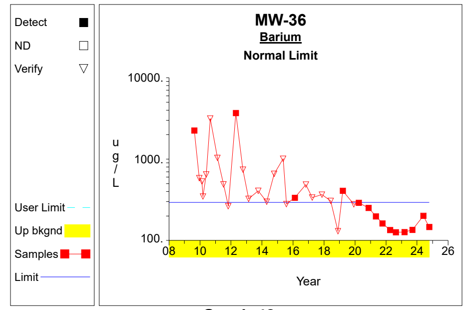
Up vs. Down Prediction Limits



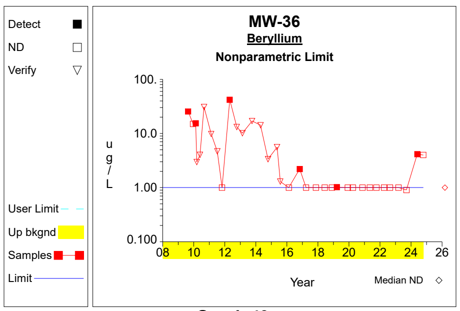
Graph 46



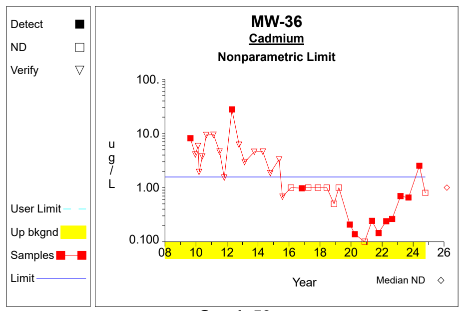
Graph 47



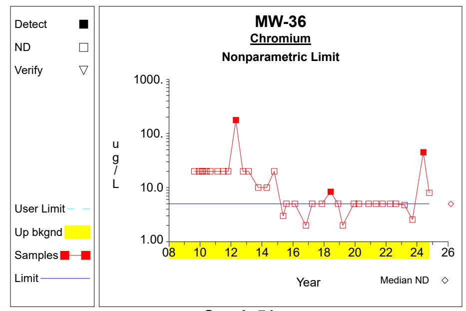
Graph 48



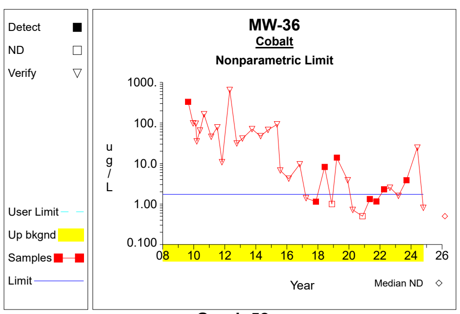
Graph 49



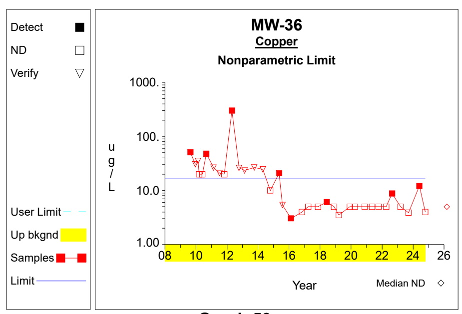
Graph 50



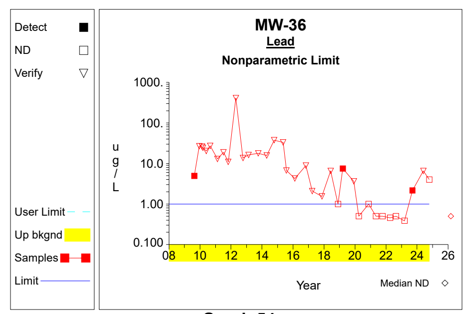
Graph 51



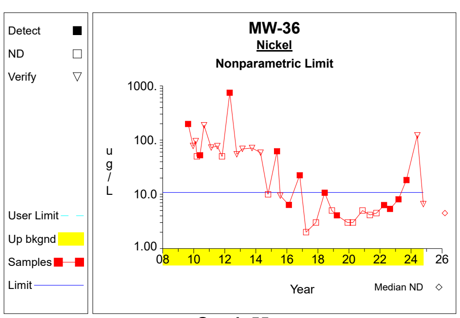
Graph 52



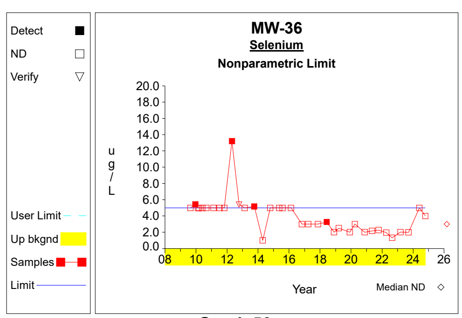
Graph 53



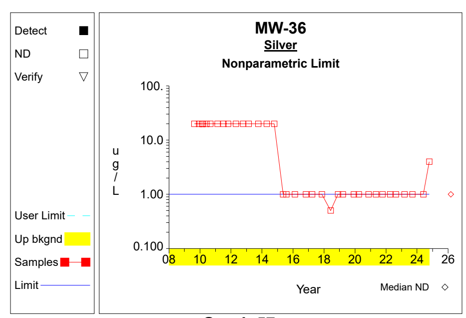
Graph 54



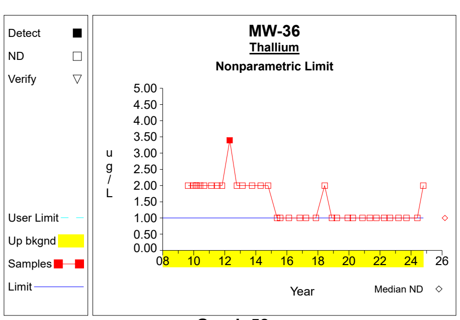
Graph 55



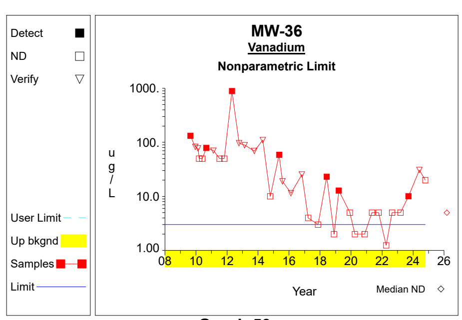
Graph 56



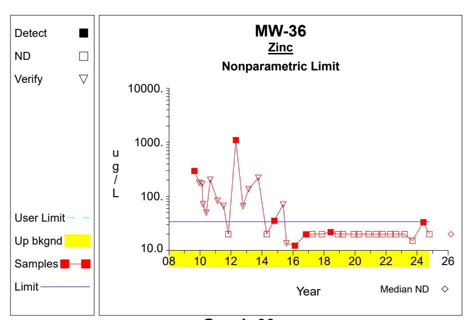
Graph 57



Graph 58

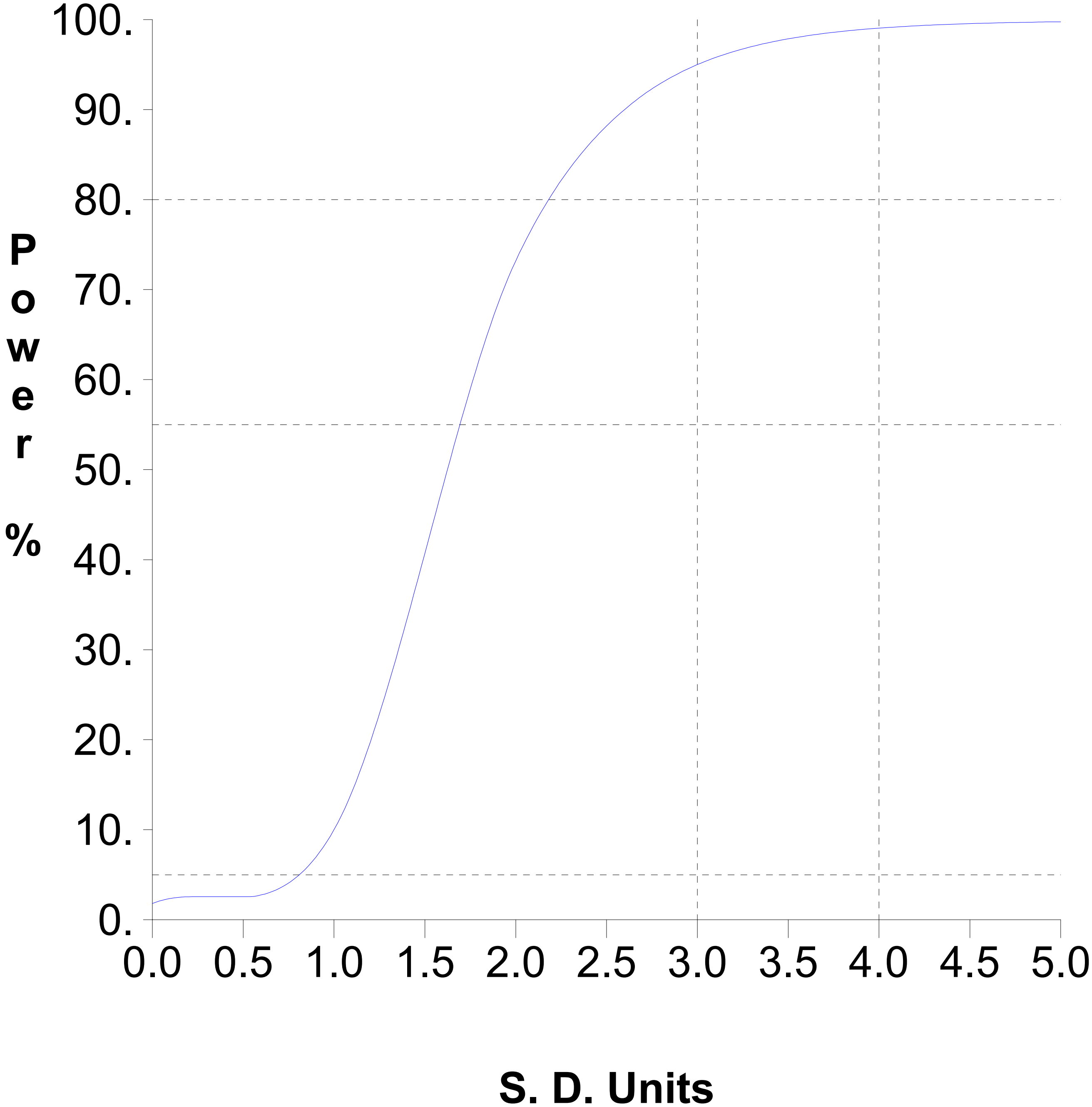


Graph 59



Graph 60

False Positive and False Negative Rates for Current Upgradient vs. Downgradient Monitoring Program



Worksheet 1 - Upgradient vs. Downgradient Comparisons
Antimony (ug/L)
Nonparametric Prediction Limit

Step	Equation	Description
1	PL = max(X) = **6.51**	Compute nonparametric prediction limit as largest background measurement.
2	Conf = **0.99**	Confidence level is based on N, K and resampling strategy (see Gibbons 1994).

Worksheet 1 - Upgradient vs. Downgradient Comparisons
Arsenic (ug/L)
Nonparametric Prediction Limit

Step	Equation	Description
1	PL = max(X) = **1.35**	Compute nonparametric prediction limit as largest background measurement.
2	Conf = **0.99**	Confidence level is based on N, K and resampling strategy (see Gibbons 1994).

Worksheet 1 - Upgradient vs. Downgradient Comparisons
Barium (ug/L)
Normal Prediction Limit

Step	Equation	Description
1	$\bar{X} = \mathbf{sum[X]} / \mathbf{N}$ $= \mathbf{8858.5} / \mathbf{36}$ $= \mathbf{246.069}$	Compute upgradient mean.
2	$S = ((\mathbf{sum[X^2]} - \mathbf{sum[X]}^2/\mathbf{N}) / (\mathbf{N}-1))^{1/2}$ $= ((\mathbf{2.19}\times\mathbf{10^6} - \mathbf{7.85}\times\mathbf{10^7}/\mathbf{36}) / (\mathbf{36}-1))^{1/2}$ $= \mathbf{19.101}$	Compute upgradient sd.
3	alpha = $\min[(1-.95^{1/\mathbf{K}})^{1/2}, .01]$ $= \min[(1-.95^{1/\mathbf{60}})^{1/2}, .01]$ $= \mathbf{0.01}$	Adjusted per comparison false positive rate. Pass initial or 1 resample.
4	$PL = \bar{\mathbf{X}} + \mathbf{tS}(1+1/\mathbf{N})^{1/2}$ $= \mathbf{246.069}$ $+ (\mathbf{2.438}*\mathbf{19.101})(1+1/\mathbf{36})^{1/2}$ $= \mathbf{293.272}$	One-sided normal prediction limit (t is Student's t on N-1 degrees of freedom and 1-alpha confidence level).

Worksheet 1 - Upgradient vs. Downgradient Comparisons
Beryllium (ug/L)
Nonparametric Prediction Limit

Step	Equation	Description
1	PL = median(X) = **1.0**	Compute nonparametric prediction limit as median reporting limit in background.
2	Conf = **0.99**	Confidence level is based on N, K and resampling strategy (see Gibbons 1994).

Worksheet 1 - Upgradient vs. Downgradient Comparisons
Cadmium (ug/L)
Nonparametric Prediction Limit

Step	Equation	Description
1	PL = max(X) = **1.58**	Compute nonparametric prediction limit as largest background measurement.
2	Conf = **0.99**	Confidence level is based on N, K and resampling strategy (see Gibbons 1994).

Worksheet 1 - Upgradient vs. Downgradient Comparisons
Chromium (ug/L)
Nonparametric Prediction Limit

Step	Equation	Description
1	PL = median(X) = **5.0**	Compute nonparametric prediction limit as median reporting limit in background.
2	Conf = **0.99**	Confidence level is based on N, K and resampling strategy (see Gibbons 1994).

Worksheet 1 - Upgradient vs. Downgradient Comparisons
Cobalt (ug/L)
Nonparametric Prediction Limit

Step	Equation	Description
1	PL = max(X) = **1.73**	Compute nonparametric prediction limit as largest background measurement.
2	Conf = **0.99**	Confidence level is based on N, K and resampling strategy (see Gibbons 1994).

Worksheet 1 - Upgradient vs. Downgradient Comparisons
Copper (ug/L)
Nonparametric Prediction Limit

Step	Equation	Description
1	PL = max(X) = **16.4**	Compute nonparametric prediction limit as largest background measurement.
2	Conf = **0.99**	Confidence level is based on N, K and resampling strategy (see Gibbons 1994).

Worksheet 1 - Upgradient vs. Downgradient Comparisons
Lead (ug/L)
Nonparametric Prediction Limit

Step	Equation	Description
1	PL = max(X) = **1.0**	Compute nonparametric prediction limit as largest background measurement.
2	Conf = **0.99**	Confidence level is based on N, K and resampling strategy (see Gibbons 1994).

Worksheet 1 - Upgradient vs. Downgradient Comparisons
Nickel (ug/L)
Nonparametric Prediction Limit

Step	Equation	Description
1	PL = max(X) = **10.75**	Compute nonparametric prediction limit as largest background measurement.
2	Conf = **0.99**	Confidence level is based on N, K and resampling strategy (see Gibbons 1994).

Worksheet 1 - Upgradient vs. Downgradient Comparisons
Selenium (ug/L)
Nonparametric Prediction Limit

Step	Equation	Description
1	PL = median(X) = **5.0**	Compute nonparametric prediction limit as median reporting limit in background.
2	Conf = **0.99**	Confidence level is based on N, K and resampling strategy (see Gibbons 1994).

Worksheet 1 - Upgradient vs. Downgradient Comparisons
Silver (ug/L)
Nonparametric Prediction Limit

Step	Equation	Description
1	PL = median(X) = **1.0**	Compute nonparametric prediction limit as median reporting limit in background.
2	Conf = **0.99**	Confidence level is based on N, K and resampling strategy (see Gibbons 1994).

Worksheet 1 - Upgradient vs. Downgradient Comparisons
Thallium (ug/L)
Nonparametric Prediction Limit

Step	Equation	Description
1	PL = median(X) = **1.0**	Compute nonparametric prediction limit as median reporting limit in background.
2	Conf = **0.99**	Confidence level is based on N, K and resampling strategy (see Gibbons 1994).

Worksheet 1 - Upgradient vs. Downgradient Comparisons
Vanadium (ug/L)
Nonparametric Prediction Limit

Step	Equation	Description
1	PL = median(X) = **3.0**	Compute nonparametric prediction limit as median reporting limit in background.
2	Conf = **0.99**	Confidence level is based on N, K and resampling strategy (see Gibbons 1994).

Worksheet 1 - Upgradient vs. Downgradient Comparisons
Zinc (ug/L)
Nonparametric Prediction Limit

Step	Equation	Description
1	PL = max(X) = **34.1**	Compute nonparametric prediction limit as largest background measurement.
2	Conf = **0.99**	Confidence level is based on N, K and resampling strategy (see Gibbons 1994).

Attachment D

Summary Tables and Graphs for the Intrawell Comparisons

Table 1

Summary Statistics and Intermediate Computations for Combined Shewhart-CUSUM Control Charts

Constituent	Units	Well	N(back)	N(mon)	N(tot)	Mean	SD	R(i-1)	R(i)	S(i-1)	S(i)	Limit	Type	Conf	
Antimony	ug/L	MW-11	36	2	38			2.0000	2.0000			3.5000	nonpar	.99	**
Arsenic	ug/L	MW-11	36	2	38	4.8763	3.8342	5.1700	6.6000	4.8763	4.8763	29.7985	normal		
Barium	ug/L	MW-11	35	2	38	563.0571	222.0084	496.0000	346.0000	563.0571	563.0571	2006.1116	normal		
Beryllium	ug/L	MW-11	34	2	38			1.0000	4.0000			1.0000	nonpar	.99	**
Cadmium	ug/L	MW-11	36	2	38	1.3638	1.7185	0.2000	0.8000	1.3638	1.3638	12.5342	normal		
Chromium	ug/L	MW-11	36	2	38			5.0000	8.0000			5.0000	nonpar	.99	**
Cobalt	ug/L	MW-11	36	2	38	22.2667	18.8248	6.6300	3.0000	22.2667	22.2667	144.6276	normal		
Copper	ug/L	MW-11	36	2	38			2.5300	9.7000			28.3000	nonpar	.99	**
Lead	ug/L	MW-11	36	2	38			0.5000	4.0000			7.4200	nonpar	.99	**
Nickel	ug/L	MW-11	37	2	39	35.9404	22.6464	5.6300	5.4000	35.9404	35.9404	183.1417	normal		
Selenium	ug/L	MW-11	34	2	38			5.0000	4.0000			6.7200	nonpar	.99	**
Silver	ug/L	MW-11	36	2	38			1.0000	4.0000			2.6100	nonpar	.99	**
Thallium	ug/L	MW-11	35	2	38			1.0000	2.0000			2.0000	nonpar	.99	**
Vanadium	ug/L	MW-11	36	2	38			5.0000	20.0000			5.0000	nonpar	.99	**
Zinc	ug/L	MW-11	36	2	38	32.2778	28.9600	11.5000	28.4000	32.2778	32.2778	220.5175	normal		
Antimony	ug/L	MW-15R	30	2	32			2.0000	2.0000			2.0000	nonpar	.99	**
Arsenic	ug/L	MW-15R	30	2	32			9.1300	9.1000			4.5000	nonpar	.99	**
Barium	ug/L	MW-15R	30	2	32	182.0333	65.3884	351.0000	376.0000	301.9587	446.8840	607.0582	normal		
Beryllium	ug/L	MW-15R	29	2	32			1.0000	4.0000			1.0000	nonpar	.99	**
Cadmium	ug/L	MW-15R	30	2	32	0.3360	0.3907	0.1110	0.8000	0.3360	0.3360	2.8758	normal		
Chromium	ug/L	MW-15R	30	2	32			5.0000	8.0000			5.0000	nonpar	.99	**
Cobalt	ug/L	MW-15R	30	2	32			2.7300	4.2000			2.0000	nonpar	.99	**
Copper	ug/L	MW-15R	30	2	32			5.0000	4.0000			5.0000	nonpar	.99	**
Lead	ug/L	MW-15R	30	2	32			0.5000	4.0000			0.5180	nonpar	.99	**
Nickel	ug/L	MW-15R	30	2	32			2.4800	6.3000			5.0000	nonpar	.99	**
Selenium	ug/L	MW-15R	30	2	32			5.0000	4.0000			5.0000	nonpar	.99	**
Silver	ug/L	MW-15R	30	2	32			1.0000	4.0000			1.0000	nonpar	.99	**
Thallium	ug/L	MW-15R	30	2	32			1.0000	2.0000			1.0000	nonpar	.99	**
Vanadium	ug/L	MW-15R	30	2	32			5.0000	20.0000			5.0000	nonpar	.99	**
Zinc	ug/L	MW-15R	30	2	32	33.7833	37.4957	20.0000	20.0000	33.7833	33.7833	277.5053	normal		
Antimony	ug/L	MW-19	36	2	38			2.0000	2.0000			2.0000	nonpar	.99	**
Arsenic	ug/L	MW-19	34	2	38	1.8294	1.5171	1.5200	4.0000	1.8294	1.8294	11.6906	normal		
Barium	ug/L	MW-19	36	2	39	910.8889	250.9707	1070.0000	966.0000	910.8889	910.8889	2542.1982	normal		
Beryllium	ug/L	MW-19	34	2	38			1.0000	4.0000			1.6100	nonpar	.99	**
Cadmium	ug/L	MW-19	36	2	38	3.0186	7.6119	0.2000	0.8000	3.0186	3.0186	52.4959	normal		
Chromium	ug/L	MW-19	36	2	38			5.0000	8.0000			39.4000	nonpar	.99	**
Cobalt	ug/L	MW-19	36	2	38	16.7161	6.5907	23.4000	19.5000	18.4570	16.7161	59.5557	normal		
Copper	ug/L	MW-19	36	2	38			5.0000	4.0000			23.2000	nonpar	.99	**
Lead	ug/L	MW-19	36	2	38	3.2083	5.1049	0.5000	4.0000	3.2083	3.2083	36.3901	normal		
Nickel	ug/L	MW-19	36	2	39	57.4208	14.4156	59.6000	55.7000	57.4208	57.4208	151.1220	normal		
Selenium	ug/L	MW-19	34	2	38			5.0000	4.0000			5.0000	nonpar	.99	**
Silver	ug/L	MW-19	36	2	38			1.0000	4.0000			1.0000	nonpar	.99	**
Thallium	ug/L	MW-19	34	2	38			1.0000	2.0000			2.0000	nonpar	.99	**
Vanadium	ug/L	MW-19	36	2	38			5.0000	20.0000			53.2000	nonpar	.99	**
Zinc	ug/L	MW-19	36	2	38	39.5000	34.4456	20.0000	20.0000	39.5000	39.5000	263.3962	normal		
Antimony	ug/L	MW-20	33	2	35			2.0000	2.0000			6.4500	nonpar	.99	**

N(back) and N(mon) = Non-outlier measurements in the background and monitoring periods.
N(tot) = All independent measurements for that constituent and well.
For transformed data, mean and SD in transformed units and control limit in original units.
Conf = confidence level for passing initial test or one verification resample (nonparametric test only).
* - Insufficient Data.
** - Detection Frequency < 25%.
*** - Zero Variance.

Table 1

Summary Statistics and Intermediate Computations for Combined Shewhart-CUSUM Control Charts

Constituent	Units	Well	N(back)	N(mon)	N(tot)	Mean	SD	R(i-1)	R(i)	S(i-1)	S(i)	Limit	Type	Conf	
Arsenic	ug/L	MW-20	31	2	35	81.6452	28.2886	112.5000	77.5000	91.2835	81.6452	265.5212	normal		
Barium	ug/L	MW-20	32	2	35	3274.5313	1006.7973	1640.0000	2430.0000	3274.5313	3274.5313	9818.7140	normal		
Beryllium	ug/L	MW-20	30	2	35			1.0000	4.0000			1.0000	nonpar	.99	**
Cadmium	ug/L	MW-20	33	2	35	1.4612	2.7129	0.2000	0.8000	1.4612	1.4612	19.0953	normal		
Chromium	ug/L	MW-20	33	2	35			5.0000	8.0000			24.2000	nonpar	.99	**
Cobalt	ug/L	MW-20	33	2	35	17.4877	8.5210	8.0400	9.9000	17.4877	17.4877	72.8744	normal		
Copper	ug/L	MW-20	33	2	35			5.0000	4.0000			33.4000	nonpar	.99	**
Lead	ug/L	MW-20	33	2	35	3.2270	5.5994	0.5000	4.0000	3.2270	3.2270	39.6228	normal		
Nickel	ug/L	MW-20	33	2	35	71.6303	42.0369	14.4000	50.8000	71.6303	71.6303	344.8700	normal		
Selenium	ug/L	MW-20	30	2	35			5.0000	4.0000			5.0000	nonpar	.99	**
Silver	ug/L	MW-20	32	2	35			1.0000	4.0000			1.0000	nonpar	.99	**
Thallium	ug/L	MW-20	33	2	35			1.0000	2.0000			2.0000	nonpar	.99	**
Vanadium	ug/L	MW-20	33	2	35			1.2500	20.0000			4.6000	nonpar	.99	**
Zinc	ug/L	MW-20	33	2	35	72.7606	90.4618	20.0000	20.0000	72.7606	72.7606	660.7625	normal		
Antimony	ug/L	MW-21	32	2	34			2.0000	2.0000			2.0000	nonpar	.99	**
Arsenic	ug/L	MW-21	31	2	34	1.6079	0.9981	2.3600	6.7000	1.6114	5.9549	8.0957	normal		
Barium	ug/L	MW-21	31	2	34	951.4839	279.3301	1110.0000	1170.0000	951.4839	960.5024	2767.1298	normal		
Beryllium	ug/L	MW-21	30	2	34			1.0000	4.0000			1.2300	nonpar	.99	**
Cadmium	ug/L	MW-21	32	2	34	0.9664	2.7210	0.2000	0.8000	0.9664	0.9664	18.6526	normal		
Chromium	ug/L	MW-21	31	2	34			5.0000	8.0000			68.5000	nonpar	.99	**
Cobalt	ug/L	MW-21	30	2	34	9.3770	9.4157	7.1500	13.4000	9.3770	9.3770	70.5787	normal		
Copper	ug/L	MW-21	31	2	34			5.0000	7.4000			21.1000	nonpar	.99	**
Lead	ug/L	MW-21	31	2	34			0.5000	4.0000			9.3000	nonpar	.99	**
Nickel	ug/L	MW-21	32	2	34	43.4006	35.0463	11.7000	27.2000	43.4006	43.4006	271.2016	normal		
Selenium	ug/L	MW-21	30	2	34			5.0000	4.0000			13.2000	nonpar	.99	**
Silver	ug/L	MW-21	32	2	34			1.0000	4.0000			1.0000	nonpar	.99	**
Thallium	ug/L	MW-21	32	2	34			1.0000	2.0000			2.3000	nonpar	.99	**
Vanadium	ug/L	MW-21	32	2	34			5.0000	20.0000			409.0000	nonpar	.99	**
Zinc	ug/L	MW-21	32	2	34	52.5094	84.0728	20.0000	28.1000	52.5094	52.5094	598.9828	normal		
Antimony	ug/L	MW-22	33	1	36			2.7900	21.6000			6.5100	nonpar	.99	**
Arsenic	ug/L	MW-22	33	2	36			2.0000	4.0000			1.3500	nonpar	.99	**
Barium	ug/L	MW-22	34	2	36	246.6618	19.4666	241.0000	231.0000	246.6618	246.6618	373.1950	normal		
Beryllium	ug/L	MW-22	32	2	36			1.0000	4.0000			1.0000	nonpar	.99	**
Cadmium	ug/L	MW-22	34	2	36			0.2000	0.8000			1.5800	nonpar	.99	**
Chromium	ug/L	MW-22	33	2	36			5.0000	8.0000			5.0000	nonpar	.99	**
Cobalt	ug/L	MW-22	34	2	36			0.5000	0.4000			1.7300	nonpar	.99	**
Copper	ug/L	MW-22	34	2	36			5.0000	4.0000			16.4000	nonpar	.99	**
Lead	ug/L	MW-22	34	2	36			0.3270	4.0000			1.0000	nonpar	.99	**
Nickel	ug/L	MW-22	34	2	36			5.0000	4.0000			10.7500	nonpar	.99	**
Selenium	ug/L	MW-22	34	2	36			5.0000	4.0000			5.0000	nonpar	.99	**
Silver	ug/L	MW-22	34	2	36			1.0000	4.0000			1.0000	nonpar	.99	**
Thallium	ug/L	MW-22	34	2	36			1.0000	2.0000			1.0000	nonpar	.99	**
Vanadium	ug/L	MW-22	34	2	36			1.4500	20.0000			3.0000	nonpar	.99	**
Zinc	ug/L	MW-22	32	2	36			20.0000	20.0000			34.1000	nonpar	.99	**
Antimony	ug/L	MW-23	36	2	38			2.0000	2.0000			6.0000	nonpar	.99	**
Arsenic	ug/L	MW-23	36	2	38			2.0000	4.0000			6.2500	nonpar	.99	**

N(back) and N(mon) = Non-outlier measurements in the background and monitoring periods.
N(tot) = All independent measurements for that constituent and well.
For transformed data, mean and SD in transformed units and control limit in original units.
Conf = confidence level for passing initial test or one verification resample (nonparametric test only).
* - Insufficient Data.
** - Detection Frequency < 25%.
*** - Zero Variance.

Table 1

Summary Statistics and Intermediate Computations for Combined Shewhart-CUSUM Control Charts

Constituent	Units	Well	N(back)	N(mon)	N(tot)	Mean	SD	R(i-1)	R(i)	S(i-1)	S(i)	Limit	Type	Conf	
Barium	ug/L	MW-23	36	2	38	187.8139	45.1319	158.0000	23.3000	187.8139	187.8139	481.1711	normal		
Beryllium	ug/L	MW-23	33	2	38			1.0000	4.0000			1.3700	nonpar	.99	**
Cadmium	ug/L	MW-23	36	2	38	1.2107	1.4564	0.2000	0.8000	1.2107	1.2107	10.6771	normal		
Chromium	ug/L	MW-23	36	2	38			5.0000	8.0000			5.0000	nonpar	.99	**
Cobalt	ug/L	MW-23	36	2	38	1.7381	1.5093	0.5000	0.4000	1.7381	1.7381	11.5488	normal		
Copper	ug/L	MW-23	36	2	38			5.0000	4.0000			5.0000	nonpar	.99	**
Lead	ug/L	MW-23	36	2	38			0.5000	4.0000			6.9500	nonpar	.99	**
Nickel	ug/L	MW-23	36	2	38			5.0000	4.0000			5.0000	nonpar	.99	**
Selenium	ug/L	MW-23	35	2	38	4.5103	2.6291	1.4950	4.0000	4.5103	4.5103	21.5995	normal		
Silver	ug/L	MW-23	36	2	38			1.0000	4.0000			1.0000	nonpar	.99	**
Thallium	ug/L	MW-23	36	2	38			1.0000	2.0000			2.0000	nonpar	.99	**
Vanadium	ug/L	MW-23	36	2	38			5.0000	20.0000			5.0000	nonpar	.99	**
Zinc	ug/L	MW-23	36	2	38	27.4611	15.7616	29.6500	20.0000	27.4611	27.4611	129.9114	normal		
Antimony	ug/L	MW-24	7	0	7										*
Arsenic	ug/L	MW-24	23	0	23	5.6057	12.6897	1.2700	9.9000			88.0888	normal		
Barium	ug/L	MW-24	20	0	20	595.1500	248.3994	581.0000	700.0000			2209.7458	normal		
Beryllium	ug/L	MW-24	6	0	7										*
Cadmium	ug/L	MW-24	8	0	8	0.7850	0.2712	1.1700	1.1000			2.5477	normal		
Chromium	ug/L	MW-24	7	0	7										*
Cobalt	ug/L	MW-24	10	0	11	7.1540	12.6035	2.2200	4.3000			89.0769	normal		
Copper	ug/L	MW-24	7	0	7										*
Lead	ug/L	MW-24	6	0	7										*
Nickel	ug/L	MW-24	16	0	16	18.8250	12.8811	30.5000	32.7000			102.5520	normal		
Selenium	ug/L	MW-24	7	0	7										*
Silver	ug/L	MW-24	6	0	7										*
Thallium	ug/L	MW-24	7	0	7										*
Vanadium	ug/L	MW-24	6	0	7										*
Zinc	ug/L	MW-24	7	0	7										*
Antimony	ug/L	MW-36	33	2	35			2.0000	2.0000			7.0800	nonpar	.99	**
Arsenic	ug/L	MW-36	32	2	35	2.7830	1.5451	2.0000	4.0000	2.7830	2.7830	12.8263	normal		
Barium	ug/L	MW-36	33	2	35	629.6818	824.1830	201.0000	146.0000	629.6818	629.6818	5986.8714	normal		
Beryllium	ug/L	MW-36	33	2	35	6.6428	9.8833	4.1500	4.0000	6.6428	6.6428	70.8840	normal		
Cadmium	ug/L	MW-36	33	2	35	3.3741	5.1441	2.5300	0.8000	3.3741	3.3741	36.8104	normal		
Chromium	ug/L	MW-36	32	2	35			44.9000	8.0000			8.3800	nonpar	.99	**
Cobalt	ug/L	MW-36	33	2	35	60.2564	124.7693	24.6000	0.8000	60.2564	60.2564	871.2567	normal		
Copper	ug/L	MW-36	33	2	35	22.4945	51.5615	12.1000	4.0000	22.4945	22.4945	357.6446	normal		
Lead	ug/L	MW-36	33	2	35	23.1656	70.4431	6.5300	4.0000	23.1656	23.1656	481.0459	normal		
Nickel	ug/L	MW-36	33	2	35	59.5220	132.5800	122.0000	6.6000	59.5220	59.5220	921.2922	normal		
Selenium	ug/L	MW-36	33	2	35			5.0000	4.0000			13.2000	nonpar	.99	**
Silver	ug/L	MW-36	33	2	35			1.0000	4.0000			1.0000	nonpar	.99	**
Thallium	ug/L	MW-36	33	2	35			1.0000	2.0000			3.4000	nonpar	.99	**
Vanadium	ug/L	MW-36	33	2	35	58.6197	153.9158	30.7000	20.0000	58.6197	58.6197	1059.0721	normal		
Zinc	ug/L	MW-36	33	2	35	94.3682	194.3750	33.2000	20.0000	94.3682	94.3682	1357.8059	normal		
Antimony	ug/L	MW-37R	13	1	14			1.5300	2.0000			1.5300	nonpar	.99	**
Arsenic	ug/L	MW-37R	13	1	14			0.8880	4.0000			1.2100	nonpar	.99	**
Barium	ug/L	MW-37R	14	1	15	823.6429	83.3174	686.0000	715.0000		823.6429	1365.2058	normal		

N(back) and N(mon) = Non-outlier measurements in the background and monitoring periods.
N(tot) = All independent measurements for that constituent and well.
For transformed data, mean and SD in transformed units and control limit in original units.
Conf = confidence level for passing initial test or one verification resample (nonparametric test only).
* - Insufficient Data.
** - Detection Frequency < 25%.
*** - Zero Variance.

Table 1

Summary Statistics and Intermediate Computations for Combined Shewhart-CUSUM Control Charts

Constituent	Units	Well	N(back)	N(mon)	N(tot)	Mean	SD	R(i-1)	R(i)	S(i-1)	S(i)	Limit	Type	Conf	
Beryllium	ug/L	MW-37R	13	1	14			1.0000	4.0000			1.0000	nonpar	.99	**
Cadmium	ug/L	MW-37R	13	1	14	0.2397	0.0951	0.2185	0.8000		0.2397	0.8578	normal		
Chromium	ug/L	MW-37R	13	1	14			5.0000	8.0000			5.0000	nonpar	.99	**
Cobalt	ug/L	MW-37R	13	1	14	0.8062	0.6372	0.7440	0.4000		0.8062	4.9480	normal		
Copper	ug/L	MW-37R	13	1	14			3.7000	4.0000			3.7000	nonpar	.99	**
Lead	ug/L	MW-37R	14	1	15	1.4839	1.2107	2.1600	4.0000		1.4839	9.3535	normal		
Nickel	ug/L	MW-37R	14	1	15	7.1907	2.4316	3.6600	4.0000		7.1907	22.9964	normal		
Selenium	ug/L	MW-37R	14	1	15	16.0554	14.7053	40.5000	15.8000		16.0554	111.6396	normal		
Silver	ug/L	MW-37R	13	1	14			1.0000	4.0000			1.0000	nonpar	.99	**
Thallium	ug/L	MW-37R	13	1	14			1.0000	2.0000			1.0000	nonpar	.99	**
Vanadium	ug/L	MW-37R	13	1	14			2.2000	20.0000			8.2900	nonpar	.99	**
Zinc	ug/L	MW-37R	13	1	14			20.0000	20.0000			20.0000	nonpar	.99	**
Antimony	ug/L	MW-38R	13	1	14			2.0000	2.0000			2.0000	nonpar	.99	**
Arsenic	ug/L	MW-38R	12	1	14								nonpar *		**
Barium	ug/L	MW-38R	14	1	15	453.2143	166.7311	273.0000	337.0000		453.2143	1536.9664	normal		
Beryllium	ug/L	MW-38R	13	1	14			1.0000	4.0000			1.0000	nonpar	.99	**
Cadmium	ug/L	MW-38R	14	1	15	0.2249	0.1152	0.1510	1.9000		1.8136	0.9738	normal		
Chromium	ug/L	MW-38R	12	1	14								nonpar *		**
Cobalt	ug/L	MW-38R	14	1	15	1.2680	1.2858	2.8700	16.8000		15.8356	9.6260	normal		
Copper	ug/L	MW-38R	13	1	14			5.8800	23.9000			5.8800	nonpar	.99	**
Lead	ug/L	MW-38R	13	1	14			0.5000	14.5000			0.6840	nonpar	.99	**
Nickel	ug/L	MW-38R	13	1	15	7.3423	2.8826	135.0000	145.0000		142.8381	26.0791	normal		
Selenium	ug/L	MW-38R	13	1	14	12.5077	12.4743	43.2000	7.8000		12.5077	93.5909	normal		
Silver	ug/L	MW-38R	13	1	14			1.0000	4.0000			1.0000	nonpar	.99	**
Thallium	ug/L	MW-38R	13	1	14			1.0000	2.0000			1.0000	nonpar	.99	**
Vanadium	ug/L	MW-38R	13	1	14			1.5400	59.3000			1.5400	nonpar	.99	**
Zinc	ug/L	MW-38R	13	1	14			20.0000	44.0000			20.0000	nonpar	.99	**
Antimony	ug/L	MW-39	34	2	36			2.0000	2.0000			2.0000	nonpar	.99	**
Arsenic	ug/L	MW-39	32	2	36			2.0000	4.0000			2.0000	nonpar	.99	**
Barium	ug/L	MW-39	33	2	36	80.0576	16.6469	83.3000	93.1000	80.0576	80.6148	188.2626	normal		
Beryllium	ug/L	MW-39	32	2	36			1.0000	4.0000			1.0000	nonpar	.99	**
Cadmium	ug/L	MW-39	34	2	36			0.2000	0.8000			5.5100	nonpar	.99	**
Chromium	ug/L	MW-39	34	2	36			1.4400	8.0000			5.2800	nonpar	.99	**
Cobalt	ug/L	MW-39	34	2	36			0.5000	0.4000			15.6000	nonpar	.99	**
Copper	ug/L	MW-39	34	2	36			5.0000	4.0000			5.0000	nonpar	.99	**
Lead	ug/L	MW-39	34	2	36			0.5000	4.0000			11.5000	nonpar	.99	**
Nickel	ug/L	MW-39	34	2	36			5.0000	4.0000			5.0000	nonpar	.99	**
Selenium	ug/L	MW-39	33	2	36	77.7955	17.7657	71.4000	63.6000	77.7955	77.7955	193.2724	normal		
Silver	ug/L	MW-39	34	2	36			1.0000	4.0000			1.0000	nonpar	.99	**
Thallium	ug/L	MW-39	34	2	36			1.0000	2.0000			3.3150	nonpar	.99	**
Vanadium	ug/L	MW-39	34	2	36			5.0000	20.0000			5.0000	nonpar	.99	**
Zinc	ug/L	MW-39	34	2	36			20.0000	20.0000			90.4000	nonpar	.99	**
Antimony	ug/L	MW-43	6	0	6										*
Arsenic	ug/L	MW-43	12	0	12								nonpar *		**
Barium	ug/L	MW-43	6	0	6										*
Beryllium	ug/L	MW-43	5	0	6										*

N(back) and N(mon) = Non-outlier measurements in the background and monitoring periods.
N(tot) = All independent measurements for that constituent and well.
For transformed data, mean and SD in transformed units and control limit in original units.
Conf = confidence level for passing initial test or one verification resample (nonparametric test only).
* - Insufficient Data.
** - Detection Frequency < 25%.
*** - Zero Variance.

Table 1

Summary Statistics and Intermediate Computations for Combined Shewhart-CUSUM Control Charts

Constituent	Units	Well	N(back)	N(mon)	N(tot)	Mean	SD	R(i-1)	R(i)	S(i-1)	S(i)	Limit	Type	Conf	
Cadmium	ug/L	MW-43	6	0	6										*
Chromium	ug/L	MW-43	6	0	6										*
Cobalt	ug/L	MW-43	14	0	14	12.0408	30.1762	0.3010	1.3000			208.1863	normal		
Copper	ug/L	MW-43	6	0	6										*
Lead	ug/L	MW-43	5	0	6										*
Nickel	ug/L	MW-43	6	0	6										*
Selenium	ug/L	MW-43	6	0	8										*
Silver	ug/L	MW-43	5	0	6										*
Thallium	ug/L	MW-43	6	0	6										*
Vanadium	ug/L	MW-43	6	0	6										*
Zinc	ug/L	MW-43	6	0	6										*

N(back) and N(mon) = Non-outlier measurements in the background and monitoring periods.
N(tot) = All independent measurements for that constituent and well.
For transformed data, mean and SD in transformed units and control limit in original units.
Conf = confidence level for passing initial test or one verification resample (nonparametric test only).
*   - Insufficient Data.
** - Detection Frequency < 25%.
*** - Zero Variance.

Table 4

Dixon's Test Outliers
1% Significance Level

Constituent	Units	Well	Date	Result	ND Qualifier	Date Range	N	Critical Value
Barium	ug/L	MW-11	08/31/2010	148.0000		02/11/2008-09/13/2023	36	0.4273
Beryllium	ug/L	MW-11	04/30/2008	0.0280	< 0.0280	02/11/2008-09/13/2023	36	0.4273
Beryllium	ug/L	MW-11	04/26/2012	4.0000	< 4.0000	02/11/2008-09/13/2023	36	0.4273
Selenium	ug/L	MW-11	04/30/2008	1.4400	< 1.4400	02/11/2008-09/13/2023	36	0.4318
Selenium	ug/L	MW-11	03/08/2023	1.3500	< 1.3500	02/11/2008-09/13/2023	36	0.4318
Thallium	ug/L	MW-11	09/13/2023	7.8900		02/11/2008-09/13/2023	36	0.4273
Beryllium	ug/L	MW-15R	04/26/2012	4.0000	< 4.0000	03/11/2010-09/13/2023	30	0.4556
Arsenic	ug/L	MW-19	07/07/2011	72.5000		02/11/2008-09/13/2023	36	0.4318
Arsenic	ug/L	MW-19	04/26/2012	19.6000		02/11/2008-09/13/2023	36	0.4318
Barium	ug/L	MW-19	07/07/2011	4440.0000		02/11/2008-09/13/2023	37	0.4232
Beryllium	ug/L	MW-19	04/26/2012	4.0000	< 4.0000	02/11/2008-09/13/2023	36	0.4273
Beryllium	ug/L	MW-19	05/12/2015	0.0760	< 0.0760	02/11/2008-09/13/2023	36	0.4273
Nickel	ug/L	MW-19	04/30/2008	4.6000	< 4.6000	02/11/2008-09/13/2023	37	0.4232
Selenium	ug/L	MW-19	04/30/2008	1.4400	< 1.4400	02/11/2008-09/13/2023	36	0.4318
Selenium	ug/L	MW-19	05/06/2021	1.1300	< 1.1300	02/11/2008-09/13/2023	36	0.4318
Thallium	ug/L	MW-19	07/29/2015	0.0440	< 0.0440	02/11/2008-09/13/2023	36	0.4318
Thallium	ug/L	MW-19	02/15/2016	0.0350	< 0.0350	02/11/2008-09/13/2023	36	0.4318
Arsenic	ug/L	MW-20	09/11/2008	6.6000		09/11/2008-09/13/2023	33	0.4448
Arsenic	ug/L	MW-20	08/23/2022	7.7800	< 7.7800	09/11/2008-09/13/2023	33	0.4448
Barium	ug/L	MW-20	09/11/2008	646.0000		09/11/2008-09/13/2023	33	0.4405
Beryllium	ug/L	MW-20	04/26/2012	4.0000	< 4.0000	09/11/2008-09/13/2023	33	0.4448
Beryllium	ug/L	MW-20	05/12/2015	0.0900	< 0.0900	09/11/2008-09/13/2023	33	0.4405
Beryllium	ug/L	MW-20	10/07/2021	4.0000	< 4.0000	09/11/2008-09/13/2023	33	0.4448
Selenium	ug/L	MW-20	04/26/2012	27.4000		09/11/2008-09/13/2023	33	0.4405
Selenium	ug/L	MW-20	05/06/2021	1.3900	< 1.3900	09/11/2008-09/13/2023	33	0.4448
Selenium	ug/L	MW-20	03/08/2023	1.0800	< 1.0800	09/11/2008-09/13/2023	33	0.4448
Silver	ug/L	MW-20	05/12/2015	0.0810	< 0.0810	09/11/2008-09/13/2023	33	0.4405
Arsenic	ug/L	MW-21	04/26/2012	46.3000		12/23/2008-09/13/2023	32	0.4448
Barium	ug/L	MW-21	03/18/2019	236.0000		12/23/2008-09/13/2023	32	0.4448
Beryllium	ug/L	MW-21	04/26/2012	10.4000		12/23/2008-09/13/2023	32	0.4448
Beryllium	ug/L	MW-21	04/22/2014	0.2460	< 0.2460	12/23/2008-09/13/2023	32	0.4448
Chromium	ug/L	MW-21	10/31/2016	0.5750	< 0.5750	12/23/2008-09/13/2023	32	0.4448
Cobalt	ug/L	MW-21	04/26/2012	224.0000		12/23/2008-09/13/2023	32	0.4448
Cobalt	ug/L	MW-21	02/15/2016	0.0740	< 0.0740	12/23/2008-09/13/2023	32	0.4448
Copper	ug/L	MW-21	04/26/2012	127.0000		12/23/2008-09/13/2023	32	0.4448
Lead	ug/L	MW-21	04/26/2012	778.0000		12/23/2008-09/13/2023	32	0.4448
Selenium	ug/L	MW-21	08/21/2009	18.9000		12/23/2008-09/13/2023	32	0.4448
Selenium	ug/L	MW-21	05/06/2021	1.0500	< 1.0500	12/23/2008-09/13/2023	32	0.4448
Antimony	ug/L	MW-22	03/28/2016	236.0000		02/11/2008-09/13/2023	34	0.4359
Arsenic	ug/L	MW-22	04/26/2012	4.0000	< 4.0000	02/11/2008-09/13/2023	34	0.4359
Beryllium	ug/L	MW-22	04/30/2008	0.0280	< 0.0280	02/11/2008-09/13/2023	34	0.4359
Beryllium	ug/L	MW-22	04/26/2012	4.0000	< 4.0000	02/11/2008-09/13/2023	34	0.4359
Chromium	ug/L	MW-22	03/28/2016	1.0000	< 1.0000	02/11/2008-09/13/2023	34	0.4359
Zinc	ug/L	MW-22	04/30/2008	5.2700	< 5.2700	02/11/2008-09/13/2023	34	0.4359
Zinc	ug/L	MW-22	07/29/2015	97.4000		02/11/2008-09/13/2023	34	0.4359
Beryllium	ug/L	MW-23	04/30/2008	0.0280	< 0.0280	02/11/2008-09/13/2023	36	0.4273
Beryllium	ug/L	MW-23	03/03/2009	3.7200		02/11/2008-09/13/2023	36	0.4318
Beryllium	ug/L	MW-23	04/26/2012	4.0000	< 4.0000	02/11/2008-09/13/2023	36	0.4318
Selenium	ug/L	MW-23	04/26/2012	44.6000		02/11/2008-09/13/2023	36	0.4273
Beryllium	ug/L	MW-24	10/15/2024	4.0000	< 4.0000	04/06/2022-10/15/2024	7	0.6371

N = Total number of independent measurements in background at each well.
Date Range = Dates of the first and last measurements included in background at each well.
Critical Value depends on the significance level and on N-1 when the two most extreme values are tested or N for the most extreme value.

Table 4

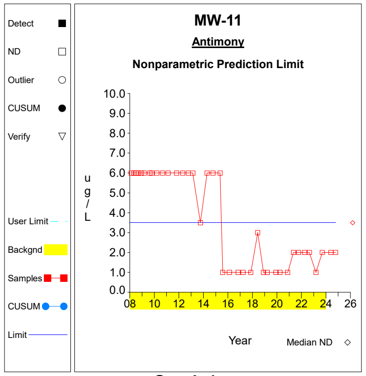
Dixon's Test Outliers
1% Significance Level

Constituent	Units	Well	Date	Result	ND Qualifier	Date Range	N	Critical Value
Cobalt	ug/L	MW-24	03/18/2019	0.2620	< 0.2620	04/26/2012-10/15/2024	11	0.6736
Lead	ug/L	MW-24	10/15/2024	4.0000	< 4.0000	04/06/2022-10/15/2024	7	0.6371
Silver	ug/L	MW-24	10/15/2024	4.0000	< 4.0000	04/06/2022-10/15/2024	7	0.6371
Vanadium	ug/L	MW-24	10/15/2024	20.0000	< 20.0000	04/06/2022-10/15/2024	7	0.6371
Arsenic	ug/L	MW-36	04/26/2012	138.0000		08/21/2009-09/13/2023	33	0.4405
Chromium	ug/L	MW-36	04/26/2012	176.0000		08/21/2009-09/13/2023	33	0.4405
Arsenic	ug/L	MW-38R	05/29/2024	0.5430	< 0.5430	11/27/2018-05/29/2024	13	0.6174
Chromium	ug/L	MW-38R	05/29/2024	177.0000		11/27/2018-05/29/2024	13	0.6174
Nickel	ug/L	MW-38R	05/29/2024	135.0000		11/27/2018-05/29/2024	14	0.6403
Arsenic	ug/L	MW-39	04/26/2012	8.0000		08/21/2009-09/13/2023	34	0.4359
Arsenic	ug/L	MW-39	10/03/2013	0.2110	< 0.2110	08/21/2009-09/13/2023	34	0.4359
Barium	ug/L	MW-39	04/26/2012	331.0000		08/21/2009-09/13/2023	34	0.4359
Beryllium	ug/L	MW-39	04/26/2012	4.0000	< 4.0000	08/21/2009-09/13/2023	34	0.4359
Beryllium	ug/L	MW-39	05/12/2015	0.0730	< 0.0730	08/21/2009-09/13/2023	34	0.4359
Selenium	ug/L	MW-39	04/26/2012	5.9000		08/21/2009-09/13/2023	34	0.4359
Beryllium	ug/L	MW-43	10/15/2024	4.0000	< 4.0000	04/06/2022-10/15/2024	6	0.6987
Lead	ug/L	MW-43	10/15/2024	4.0000	< 4.0000	04/06/2022-10/15/2024	6	0.6987
Selenium	ug/L	MW-43	04/06/2022	27.5000		04/06/2022-10/15/2024	8	0.6371
Selenium	ug/L	MW-43	03/08/2023	24.4000		04/06/2022-10/15/2024	8	0.6371
Silver	ug/L	MW-43	10/15/2024	4.0000	< 4.0000	04/06/2022-10/15/2024	6	0.6987

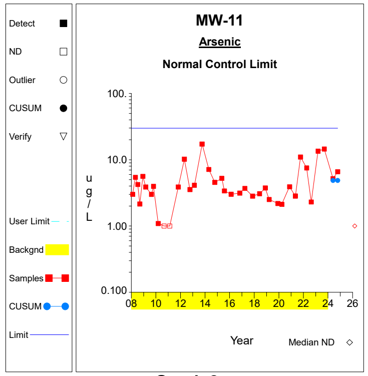
N = Total number of independent measurements in background at each well.
Date Range = Dates of the first and last measurements included in background at each well.
Critical Value depends on the significance level and on N-1 when the two most extreme values are tested or N for the most extreme value.

Cass County [GW] December 2024

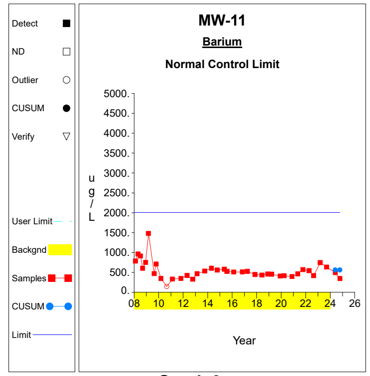
Intra-Well Control Charts / Prediction Limits



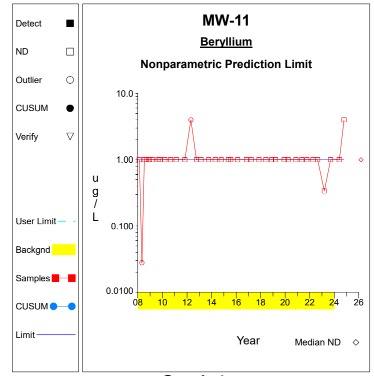
Graph 1



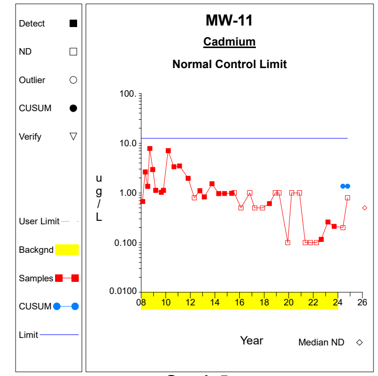
Graph 2



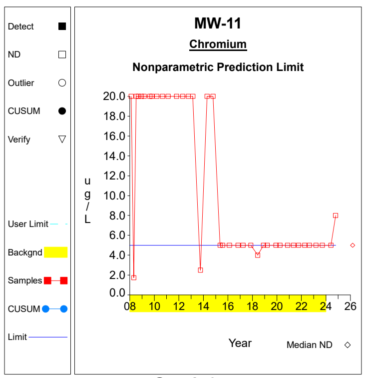
Graph 3



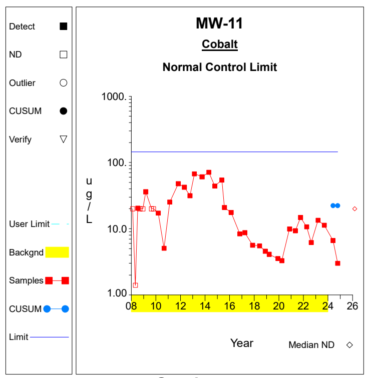
Graph 4



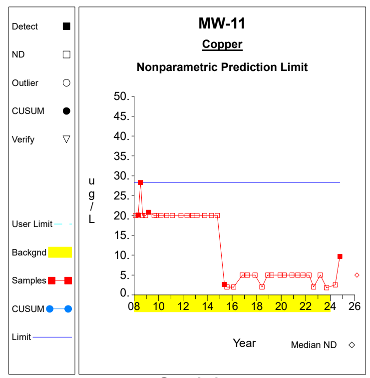
Graph 5



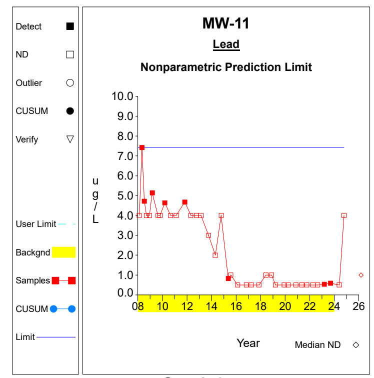
Graph 6



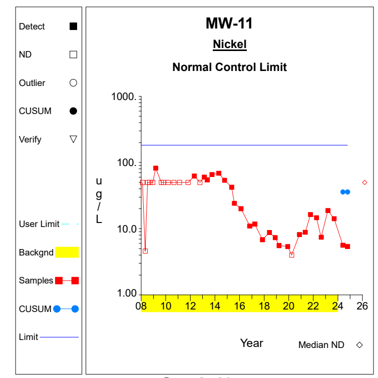
Graph 7



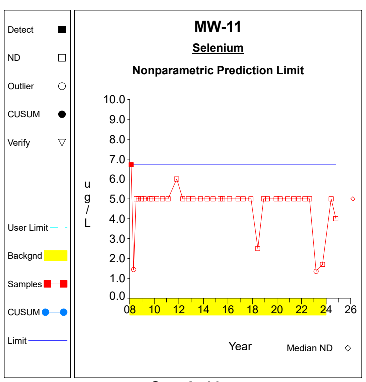
Graph 8



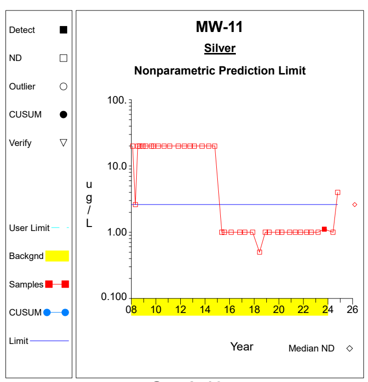
Graph 9



Graph 10



Graph 11



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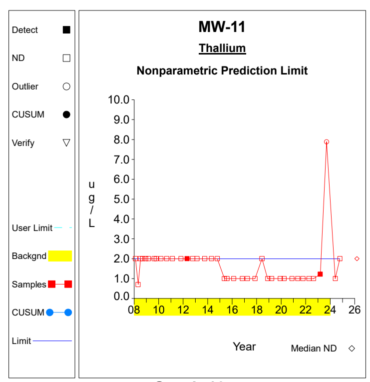
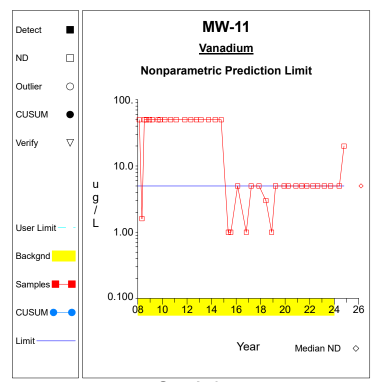


Graph 13



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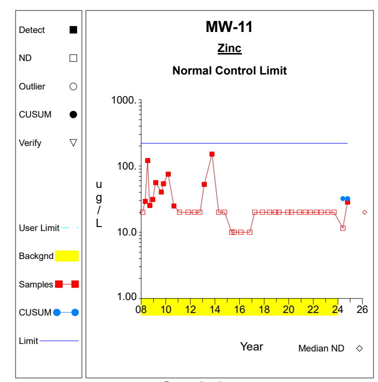

Graph 15

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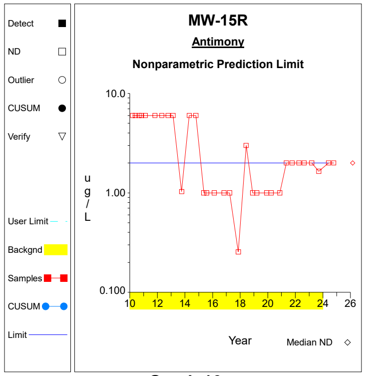
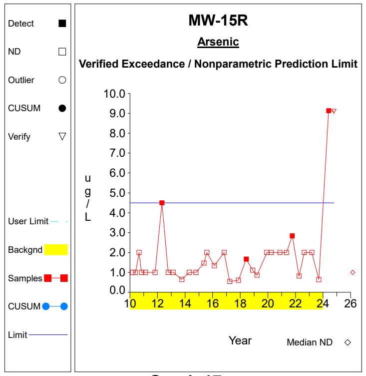
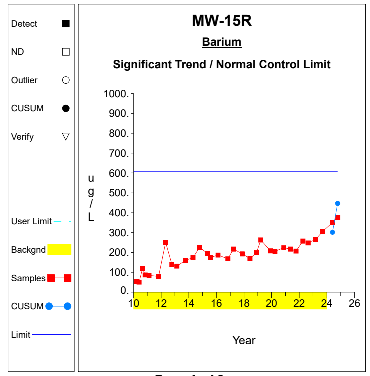
Intra-Well Control Charts / Prediction Limits



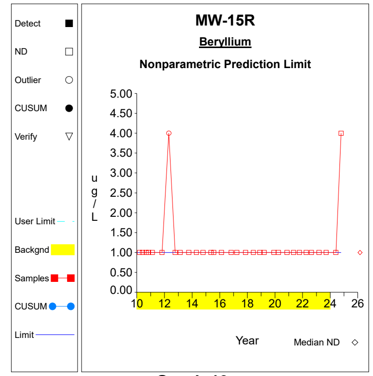
Graph 16



Graph 17



Graph 18



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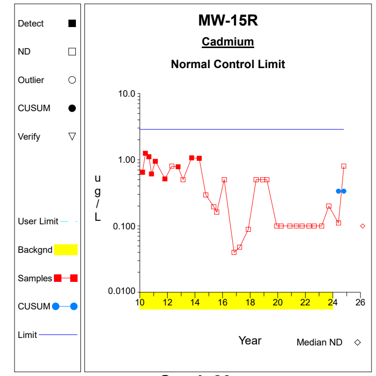
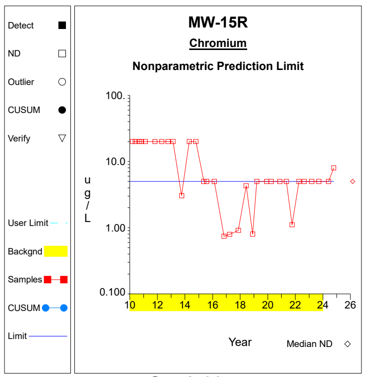
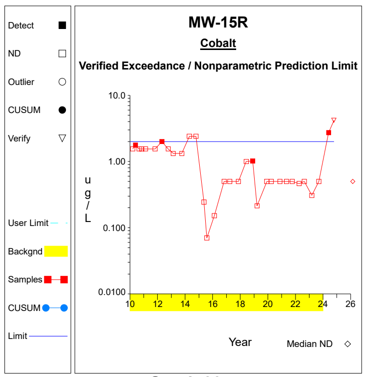


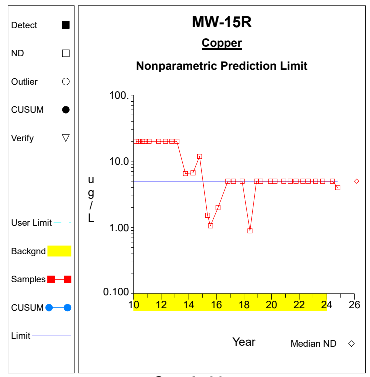
Graph 20



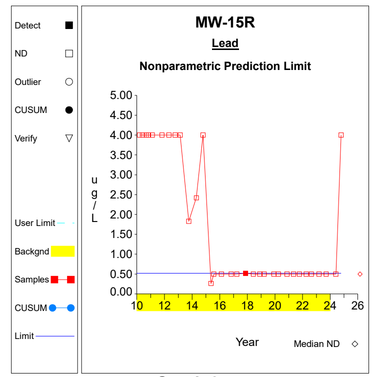
Graph 21



Graph 22



Graph 23



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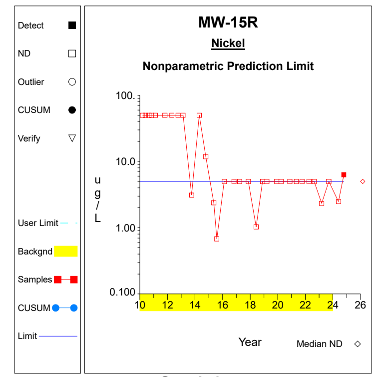
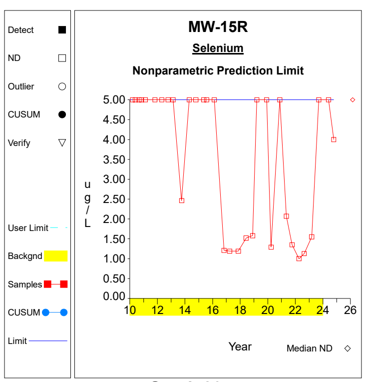
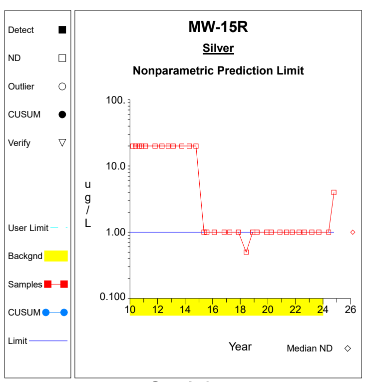


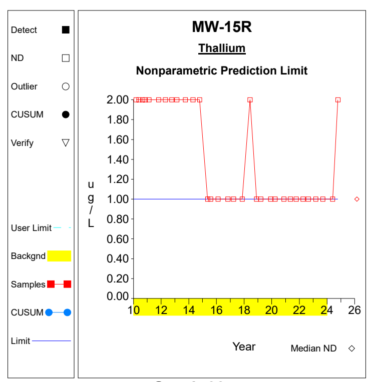
Graph 25



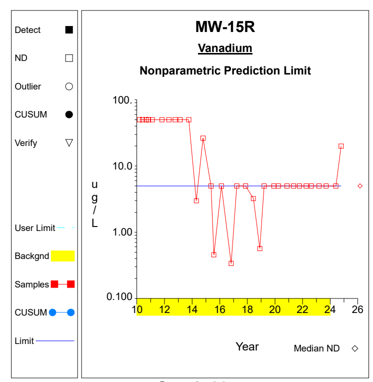
Graph 26



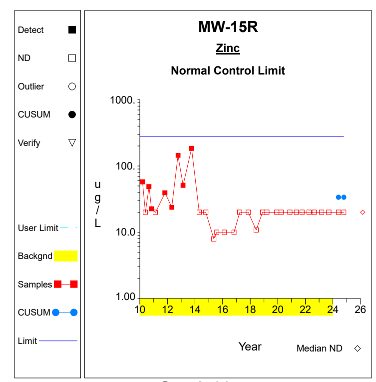
Graph 27



Graph 28



Graph 29



Graph 30

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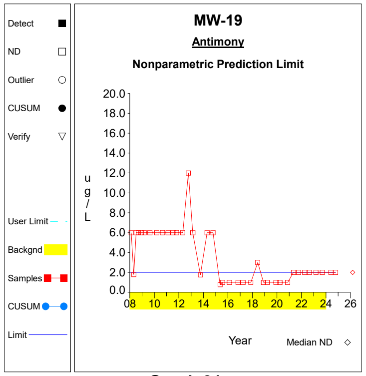
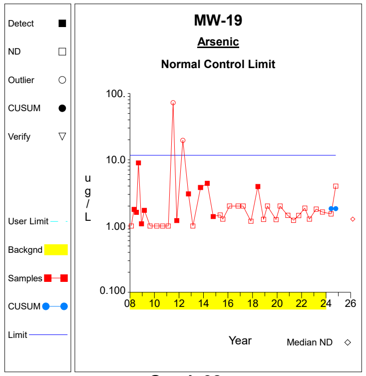
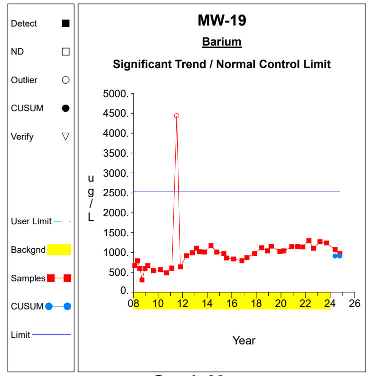
Intra-Well Control Charts / Prediction Limits



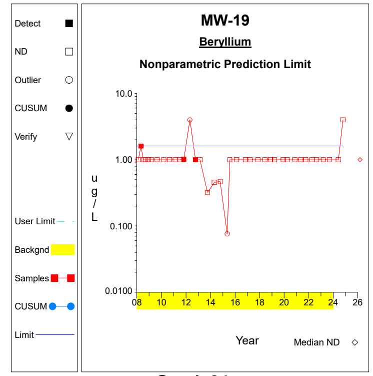
Graph 31



Graph 32



Graph 33



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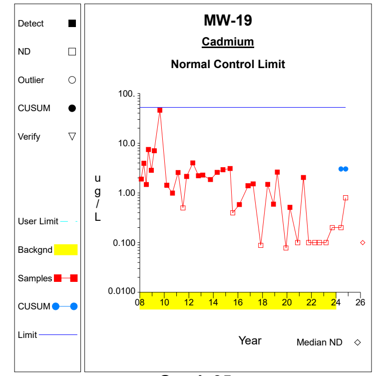
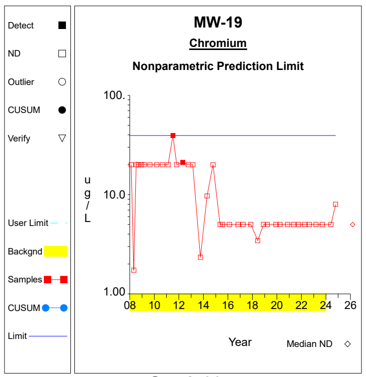


Graph 35



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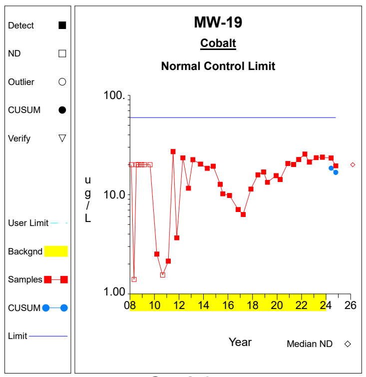
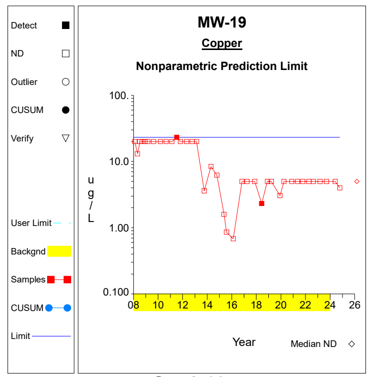
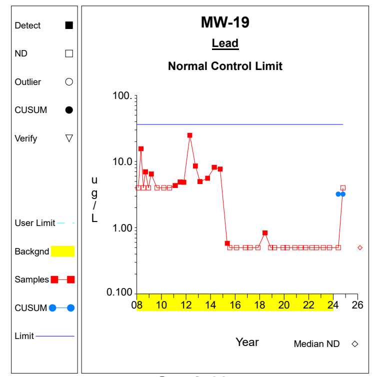


Graph 37



Graph 38



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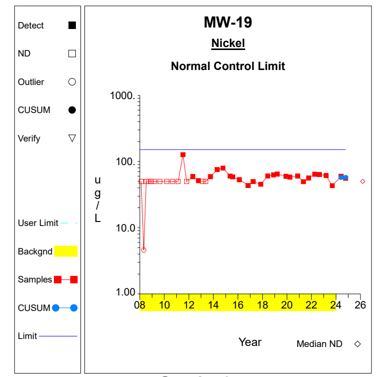

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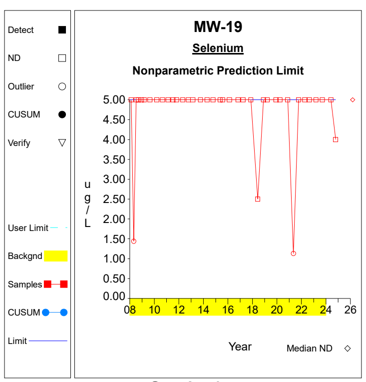

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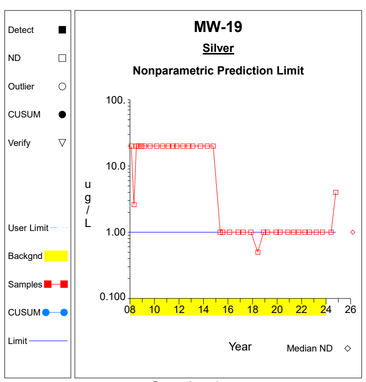

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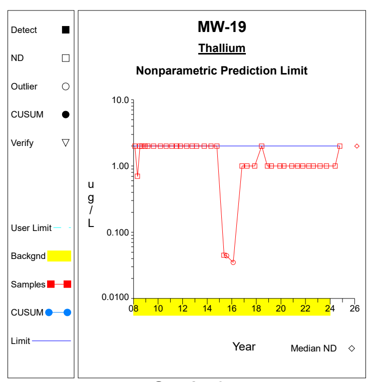

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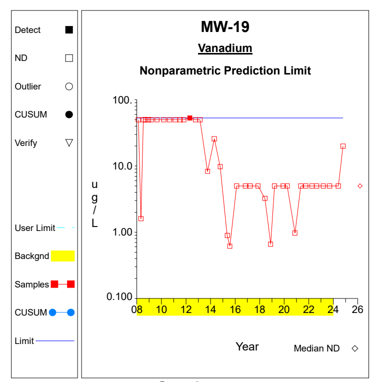
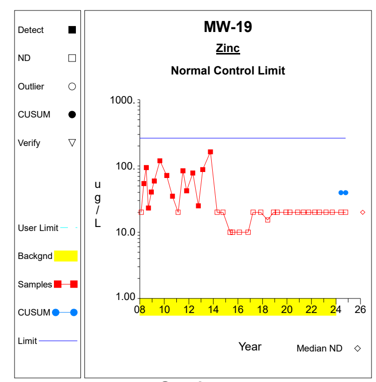
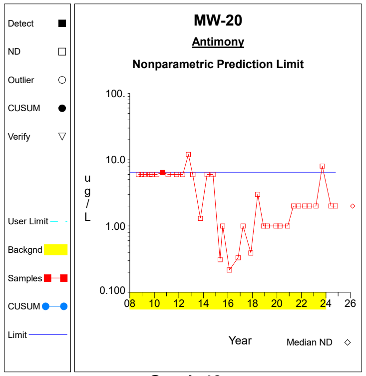


Graph 44

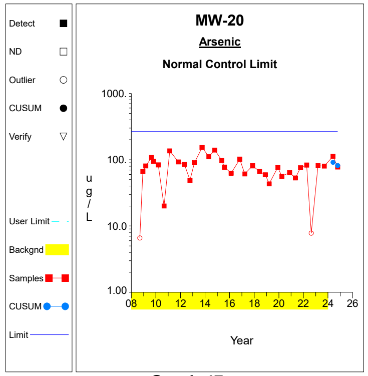


Graph 45

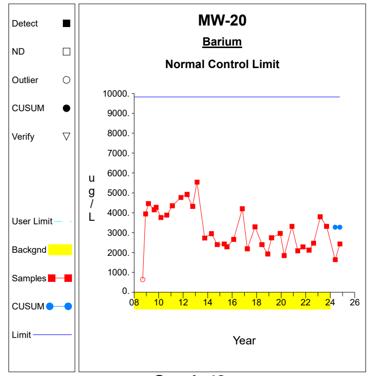
Intra-Well Control Charts / Prediction Limits



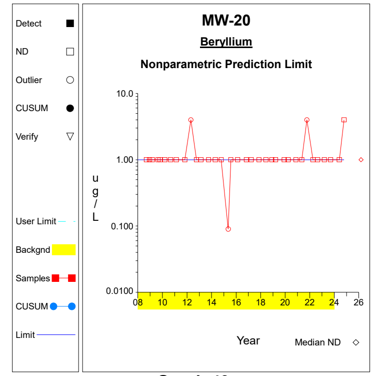
Graph 46



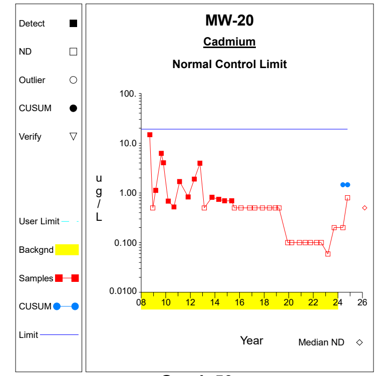
Graph 47



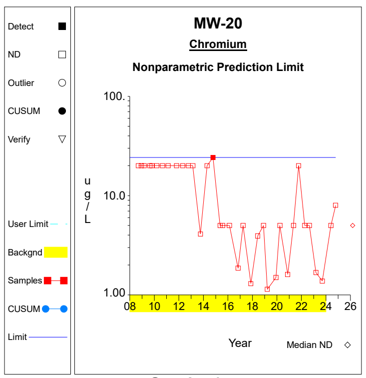
Graph 48



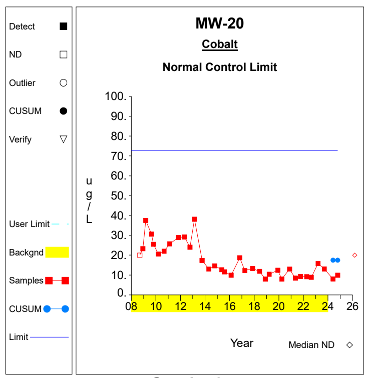
Graph 49



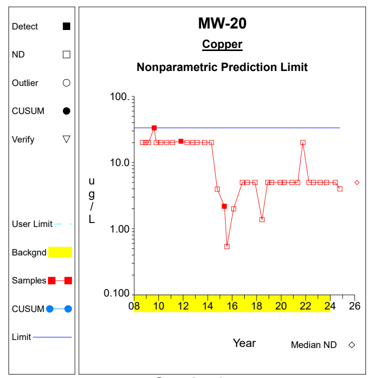
Graph 50



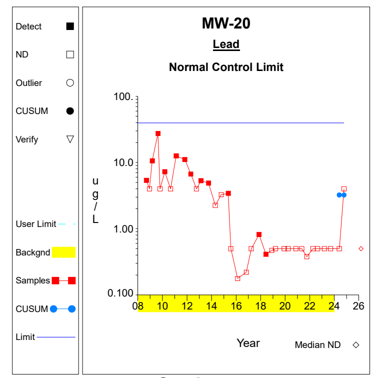
Graph 51



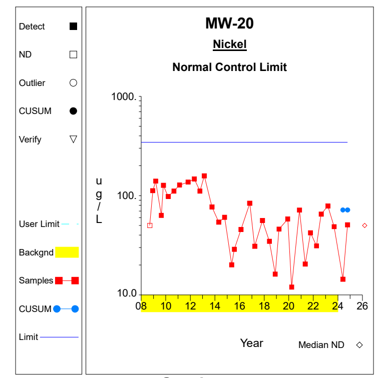
Graph 52



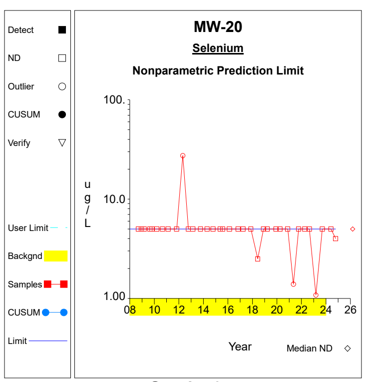
Graph 53



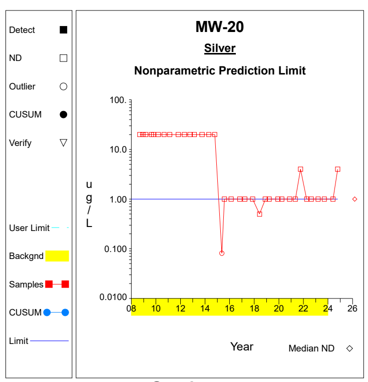
Graph 54



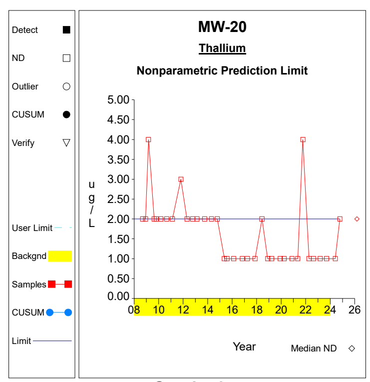
Graph 55



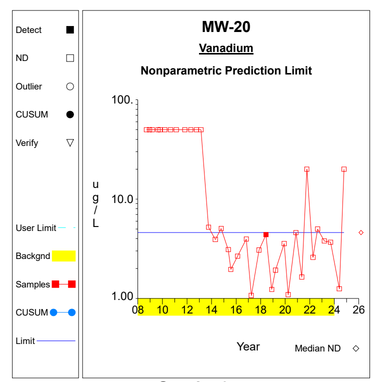
Graph 56



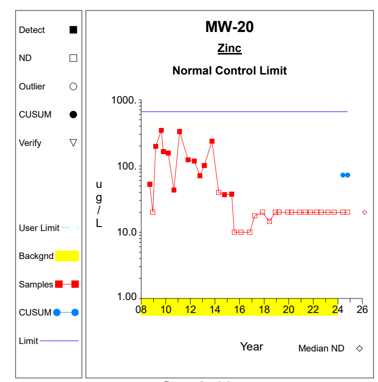
Graph 57



Graph 58



Graph 59



Graph 60

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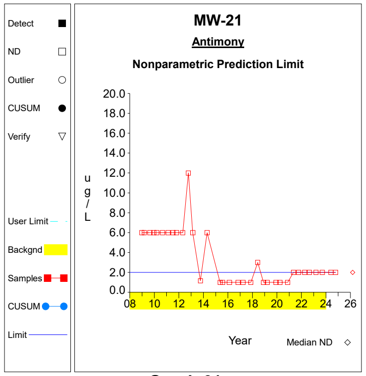
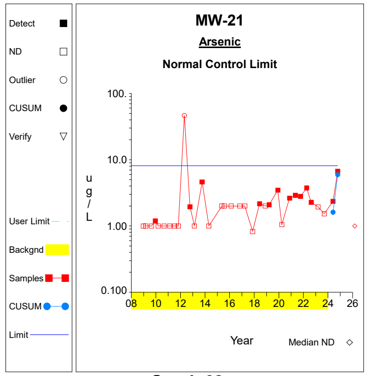
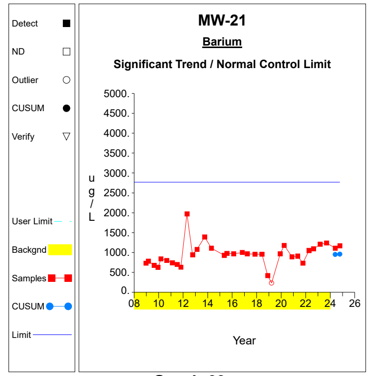
Intra-Well Control Charts / Prediction Limits



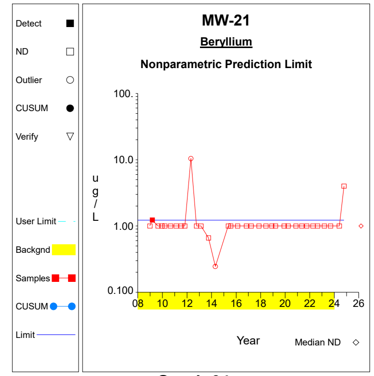
Graph 61



Graph 62



Graph 63



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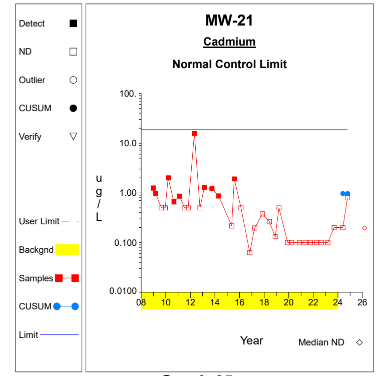
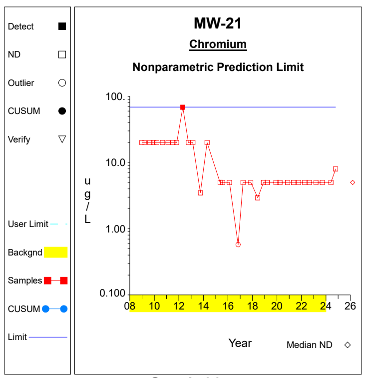
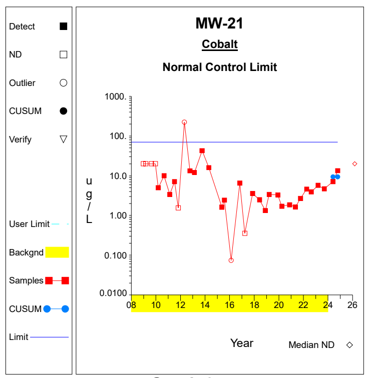


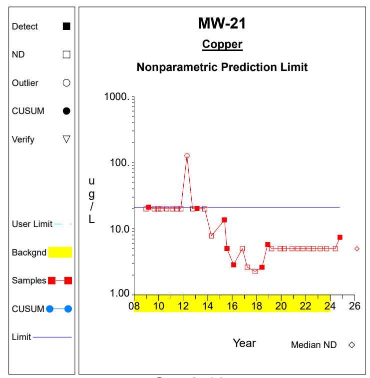
Graph 65



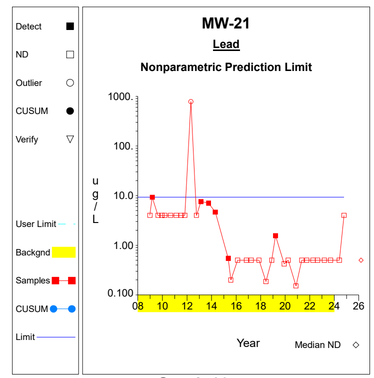
Graph 66



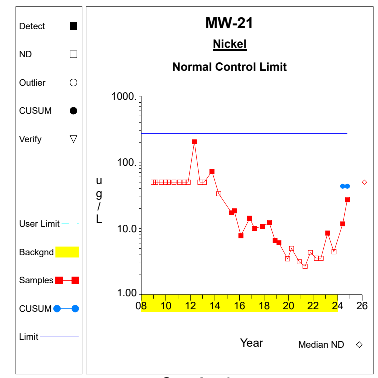
Graph 67



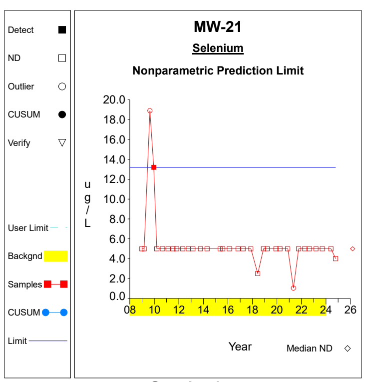
Graph 68



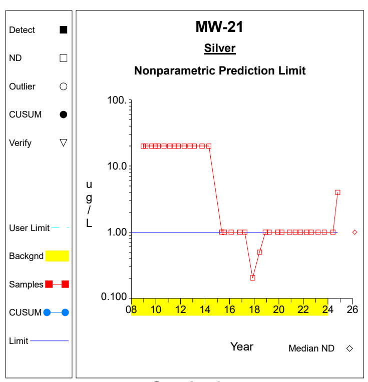
Graph 69



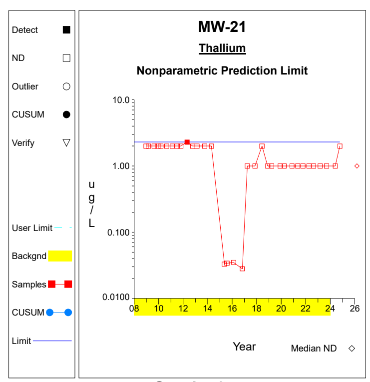
Graph 70



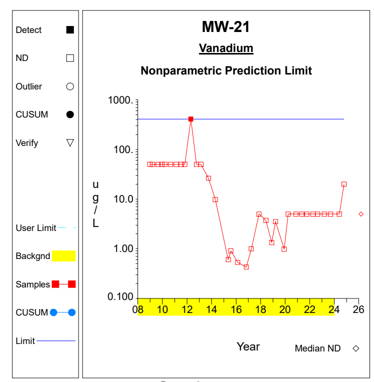
Graph 71



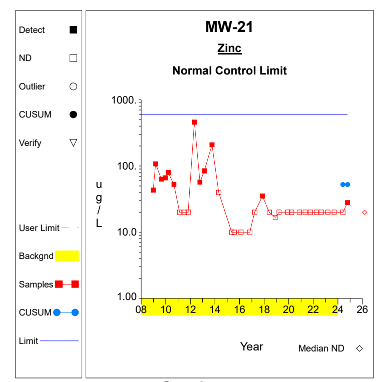
Graph 72



Graph 73



Graph 74



Graph 75

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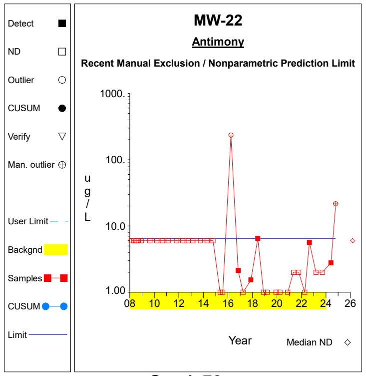
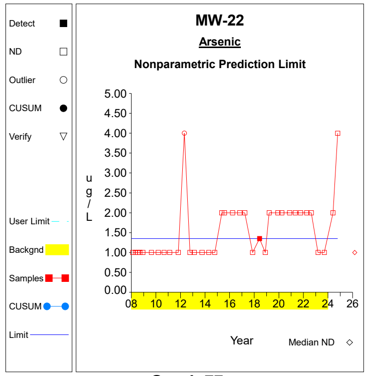
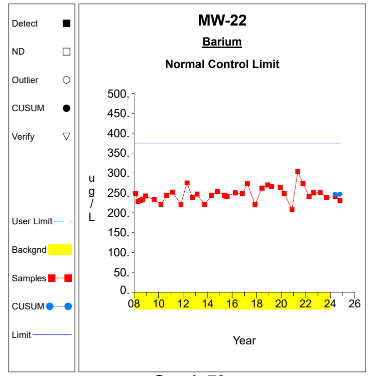
Intra-Well Control Charts / Prediction Limits



Graph 76



Graph 77



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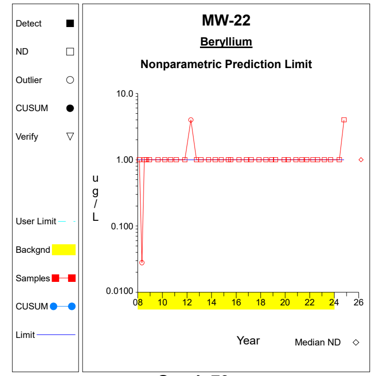

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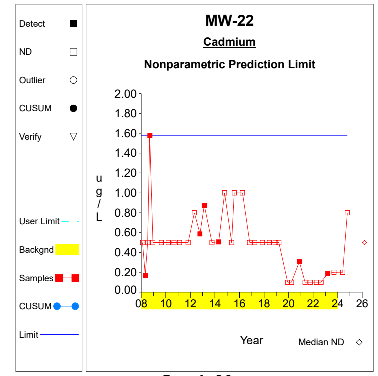

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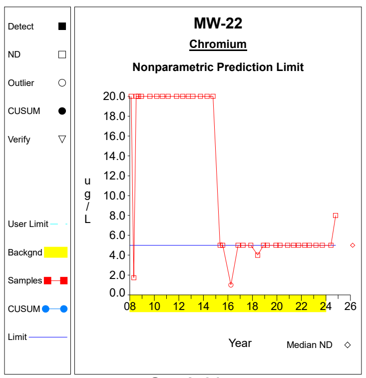

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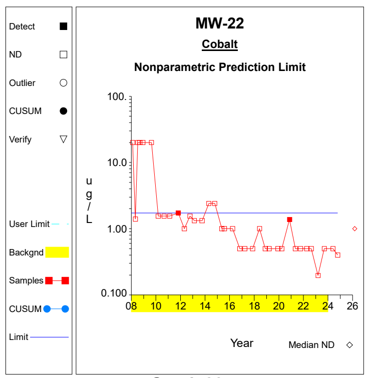

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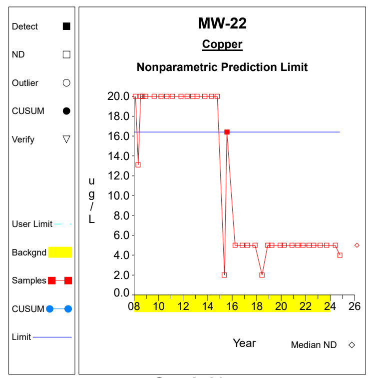

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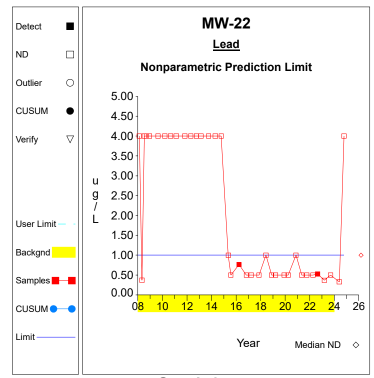

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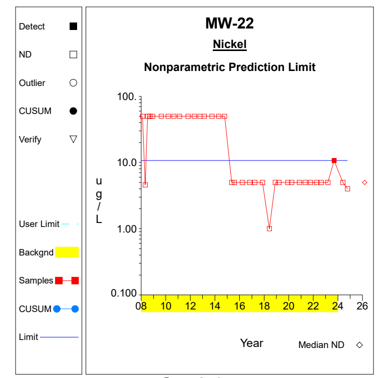

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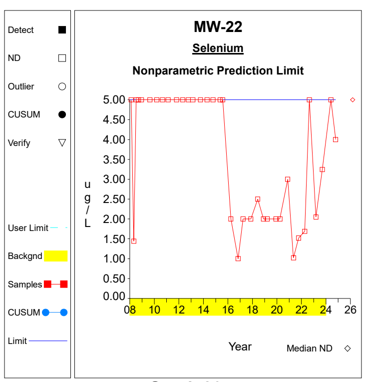

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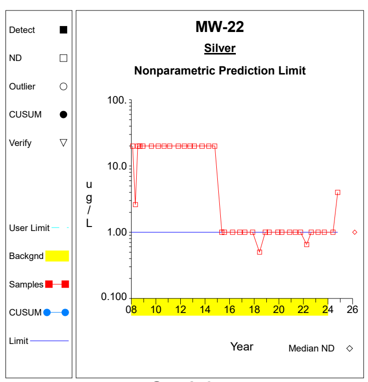

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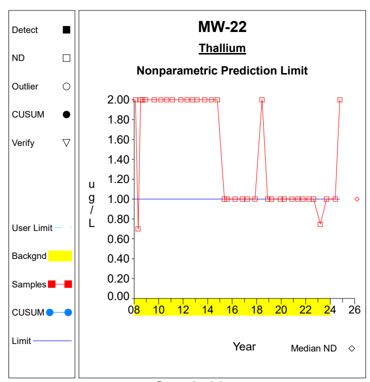

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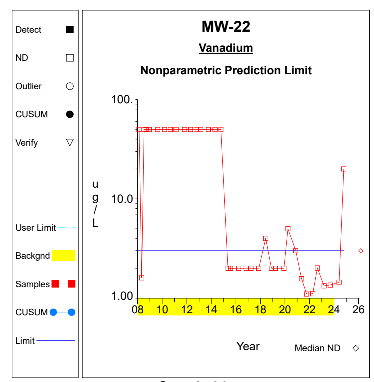

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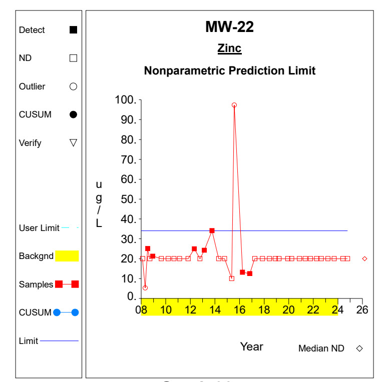

Graph 90

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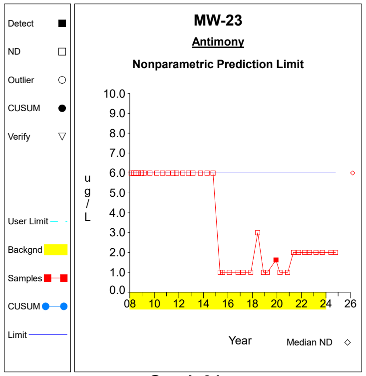
Intra-Well Control Charts / Prediction Limits



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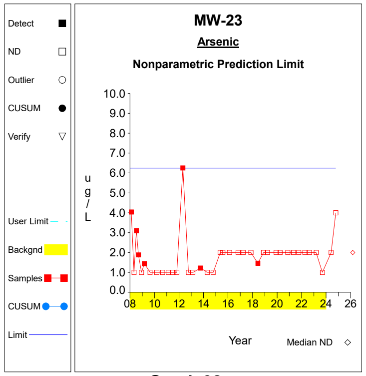

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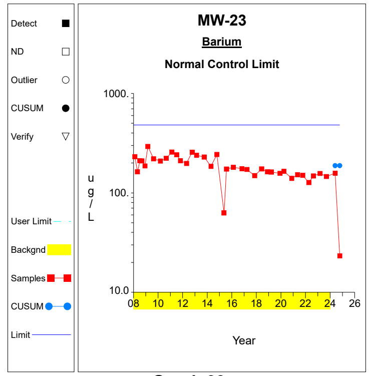
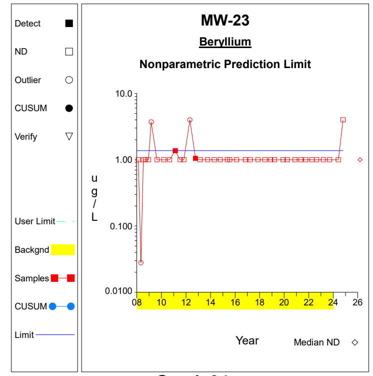


Graph 93



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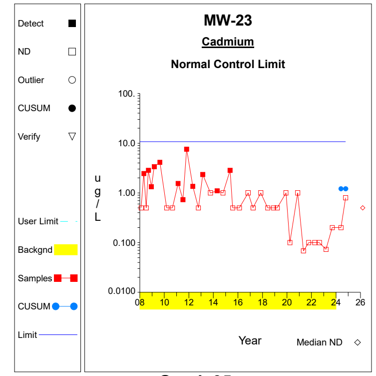

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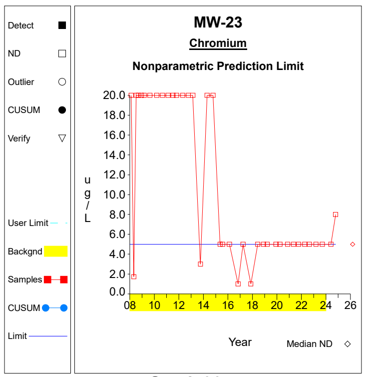

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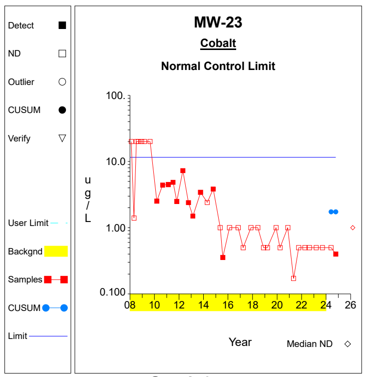

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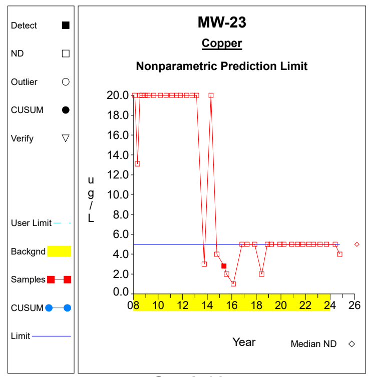

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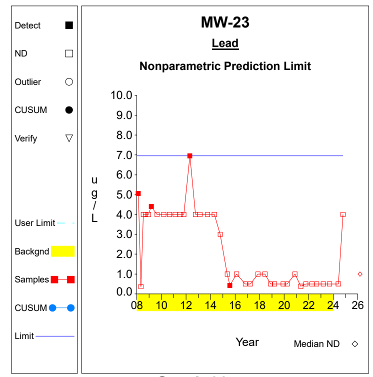

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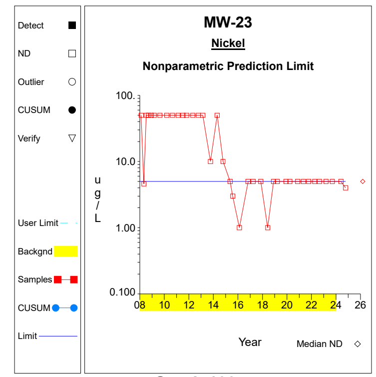

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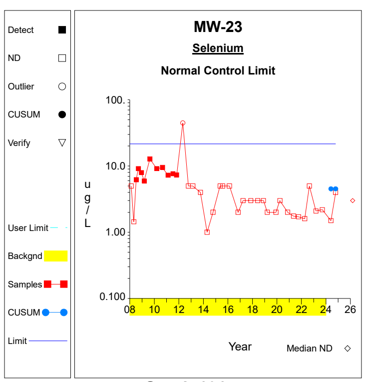

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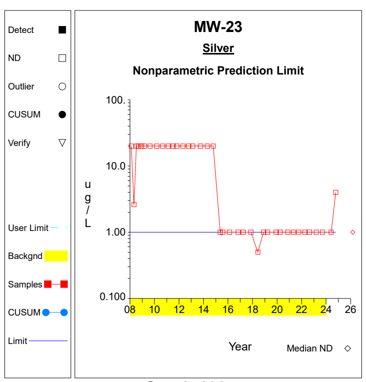

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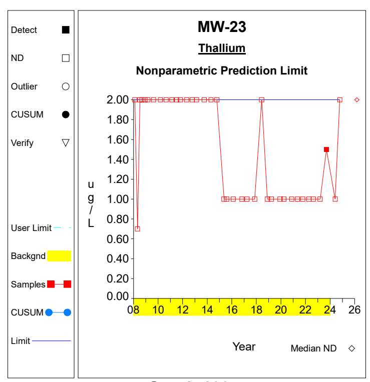

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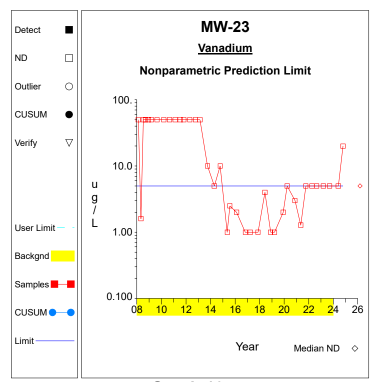

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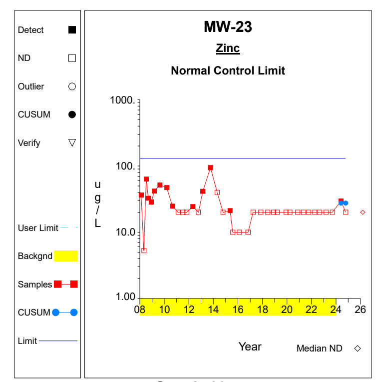

Graph 105

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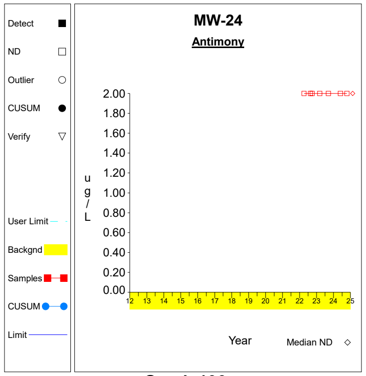
Intra-Well Control Charts / Prediction Limits



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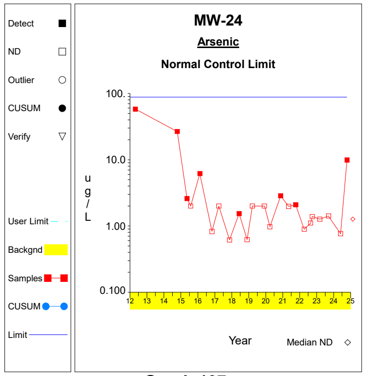

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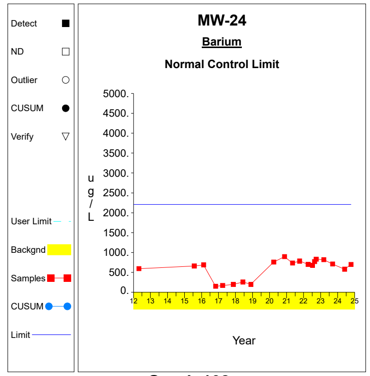

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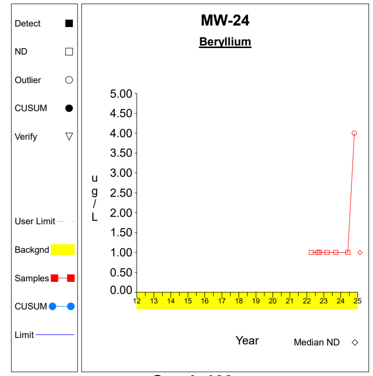

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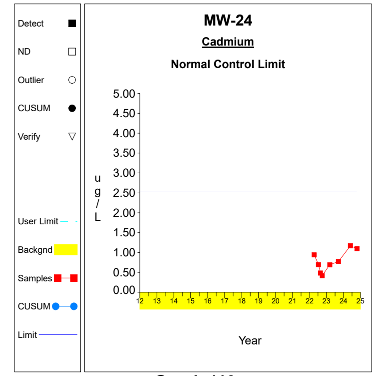

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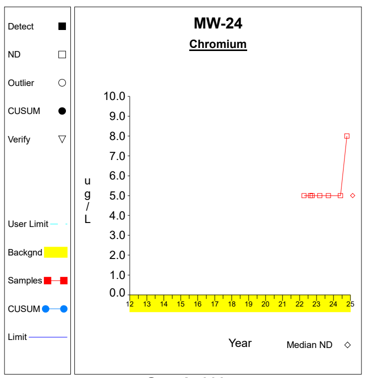

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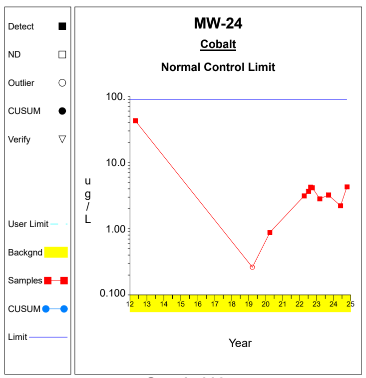

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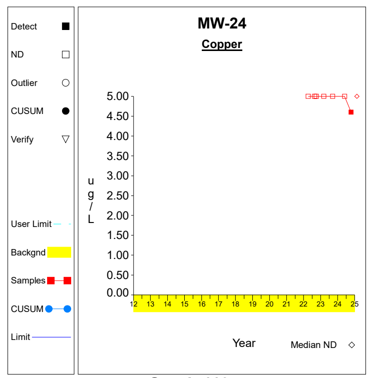

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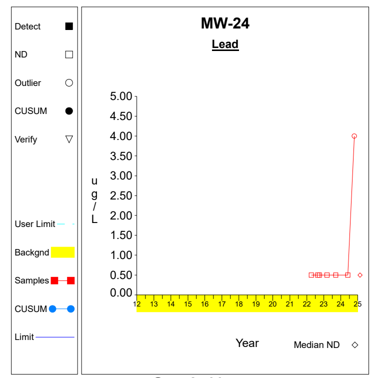

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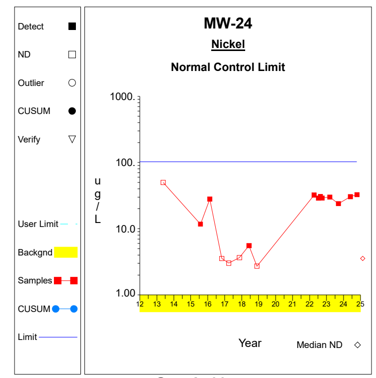

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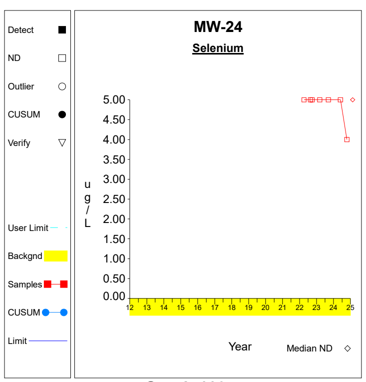

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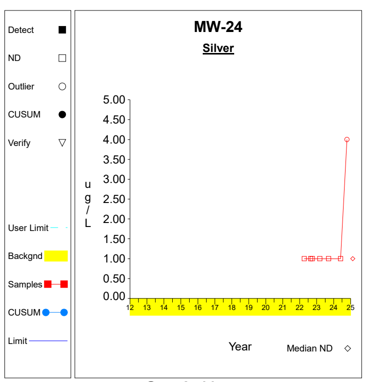

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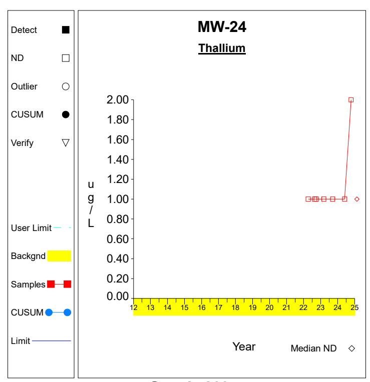

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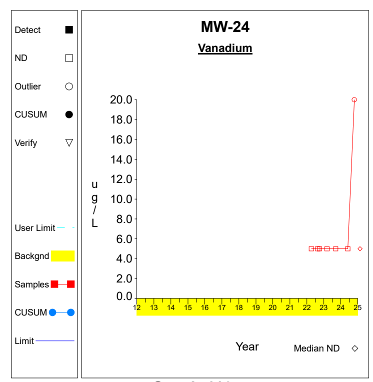

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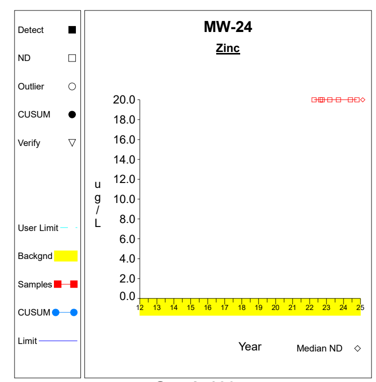

Graph 120

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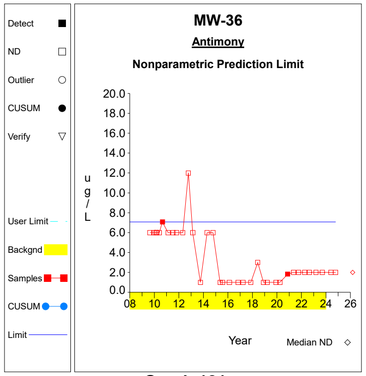
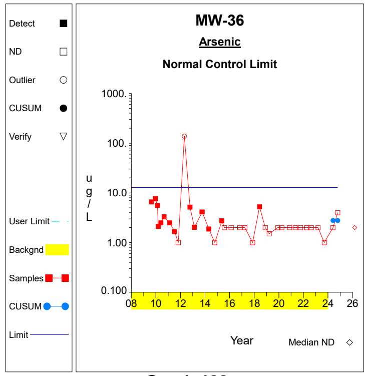
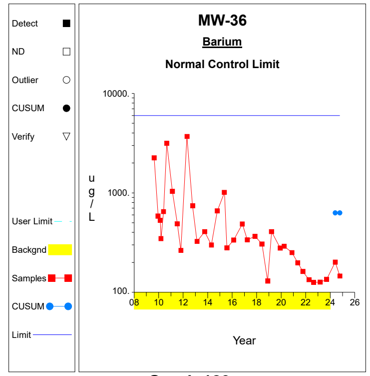
Intra-Well Control Charts / Prediction Limits



Graph 121



Graph 122



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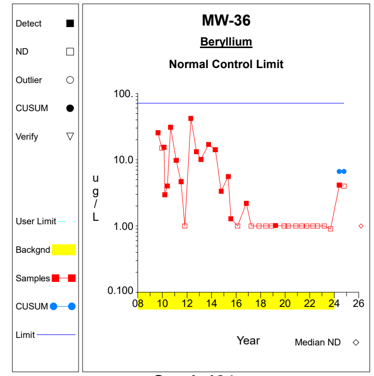
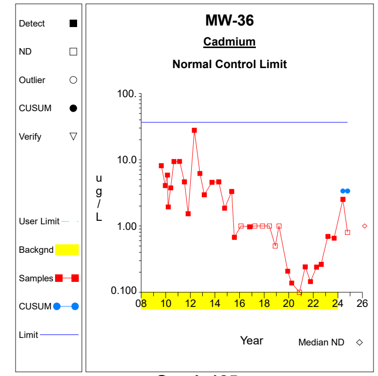
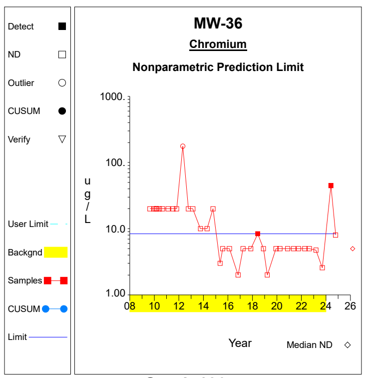


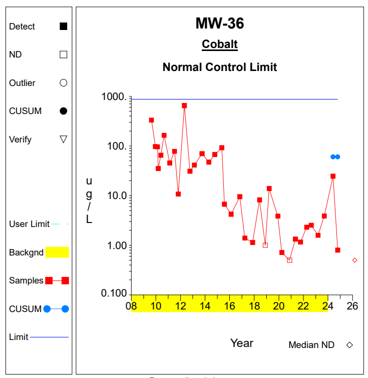
Graph 124



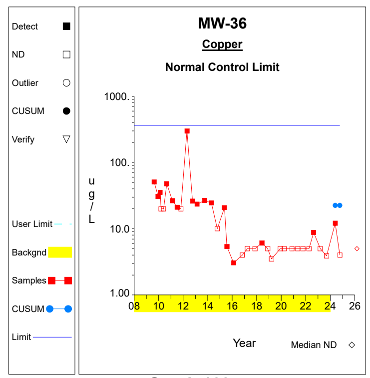
Graph 125



Graph 126



Graph 127



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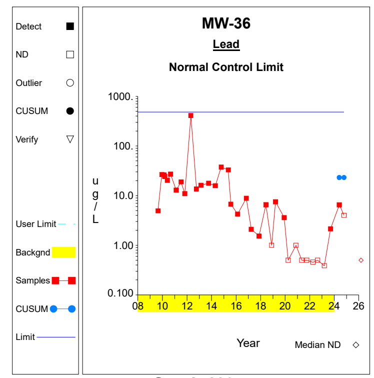

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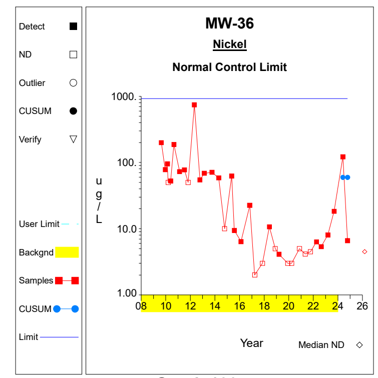

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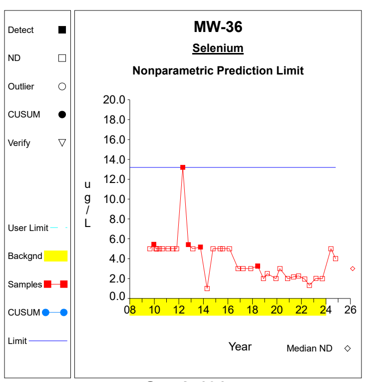

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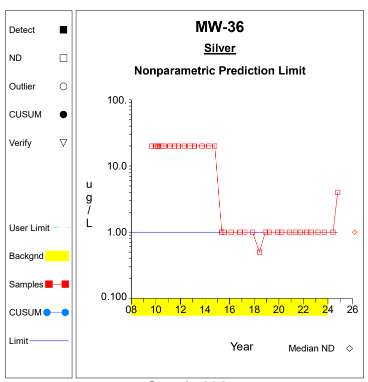

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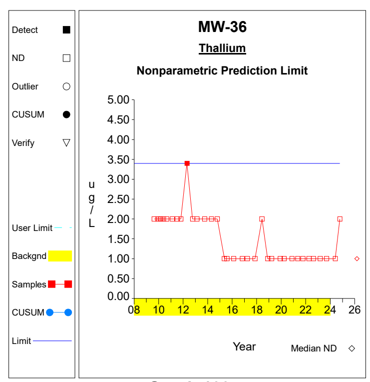

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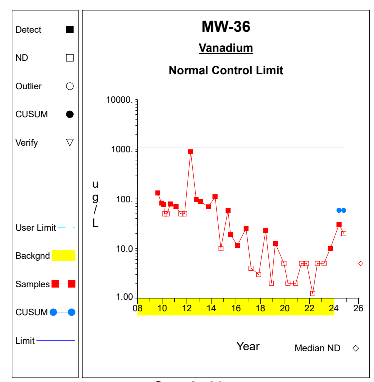

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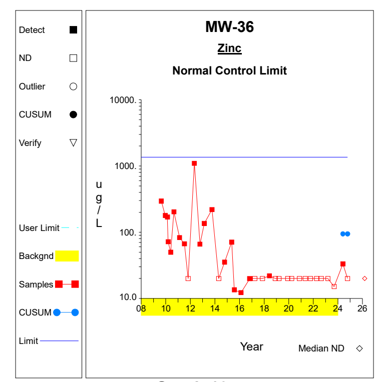

Graph 135

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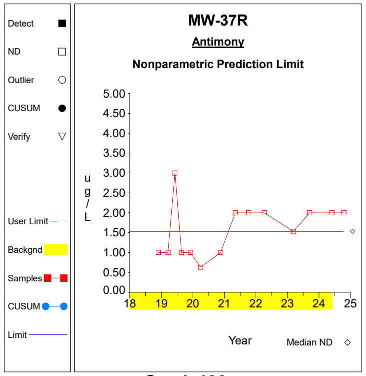
Intra-Well Control Charts / Prediction Limits



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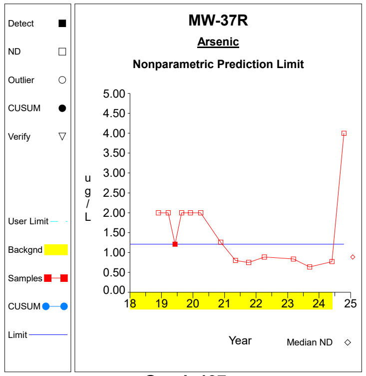

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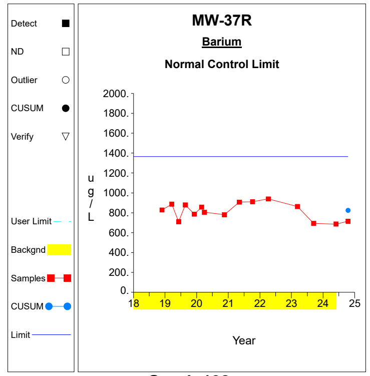
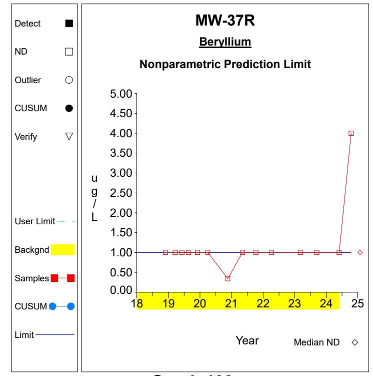
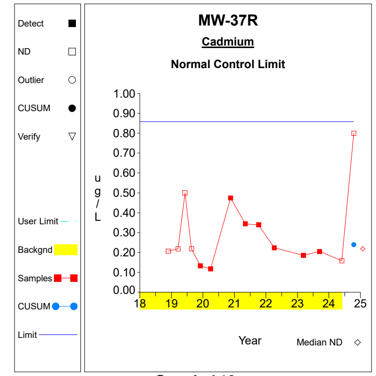


Graph 138



Graph 139



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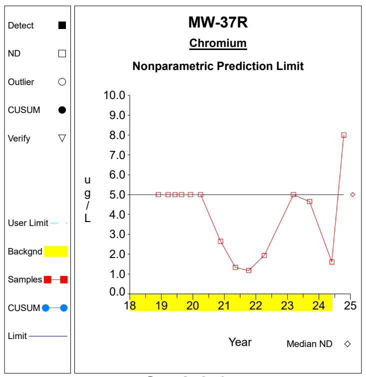

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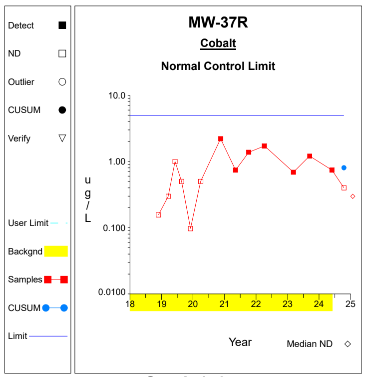

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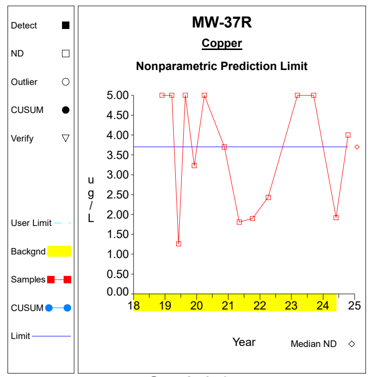

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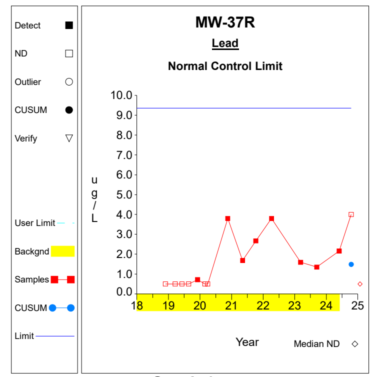

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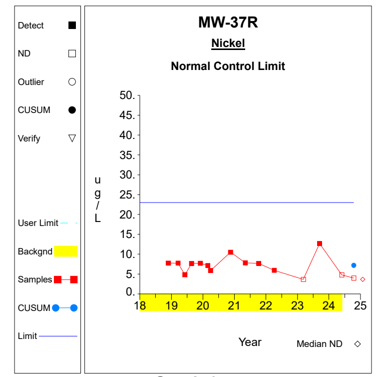

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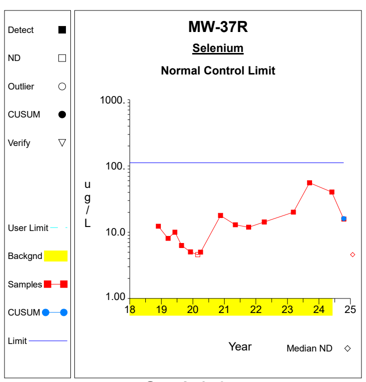

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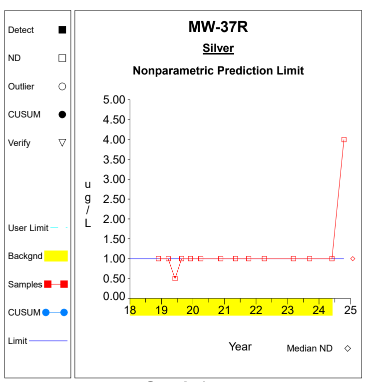

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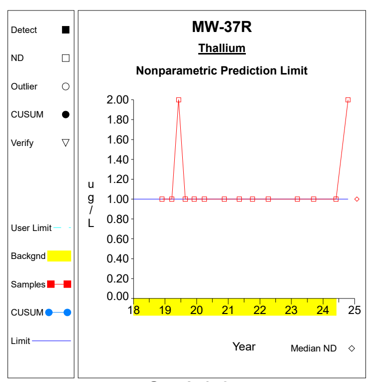

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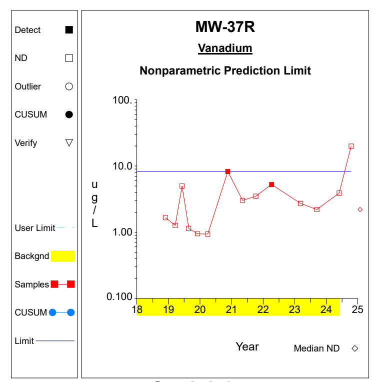
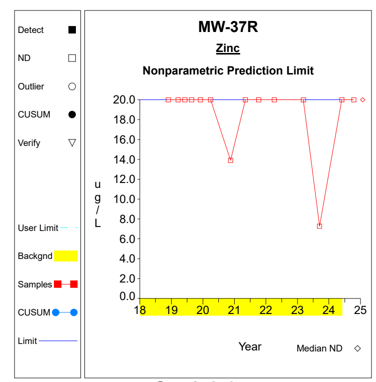


Graph 149



Graph 150

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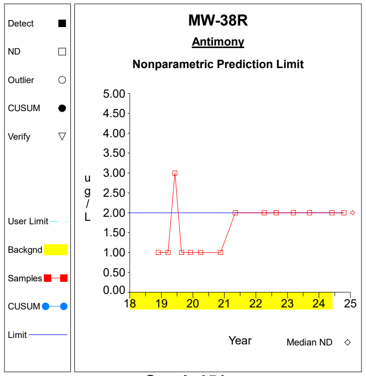
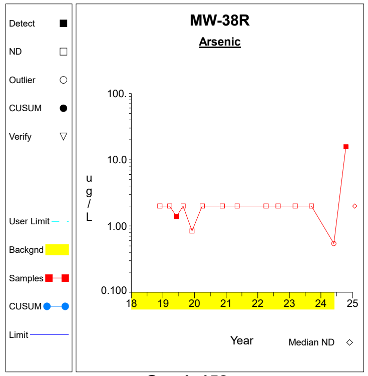


Graph 151



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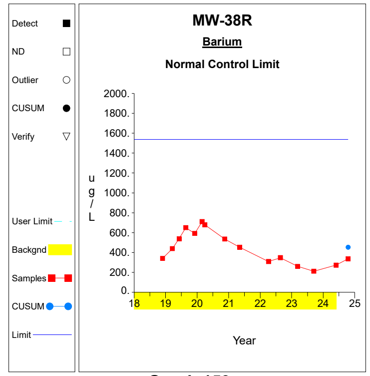
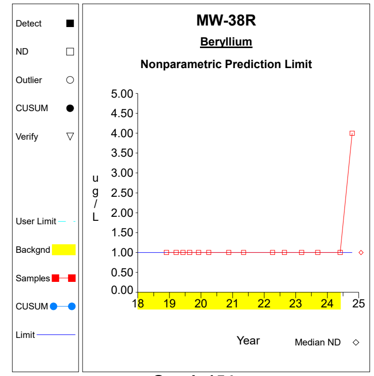
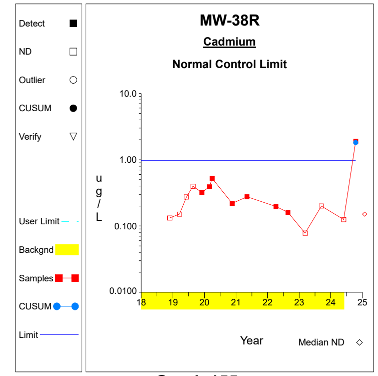


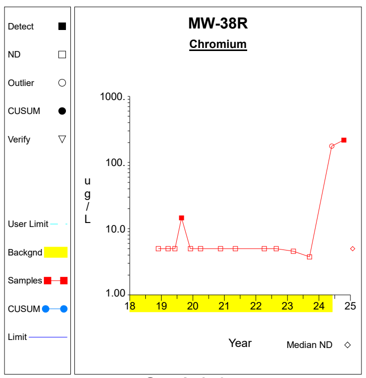
Graph 153



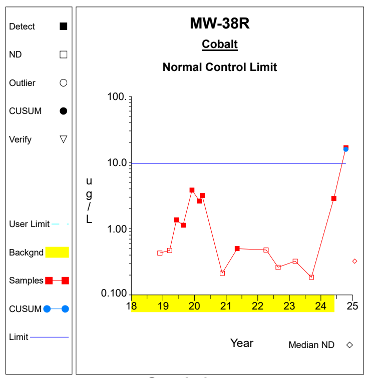
Graph 154



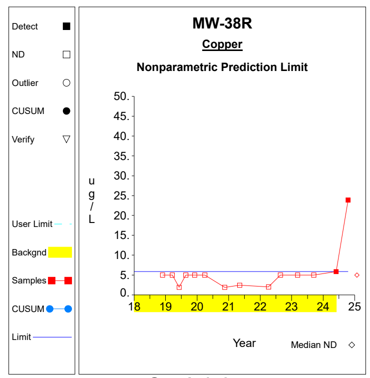
Graph 155



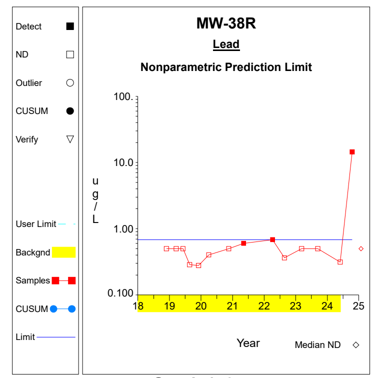
Graph 156



Graph 157



Graph 158



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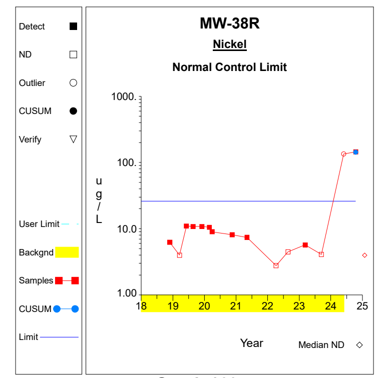
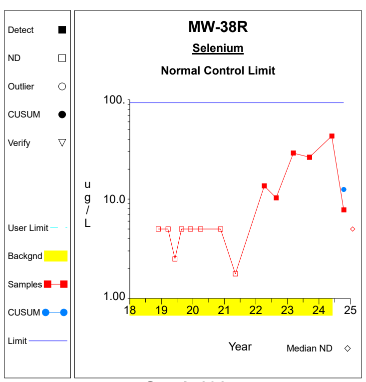
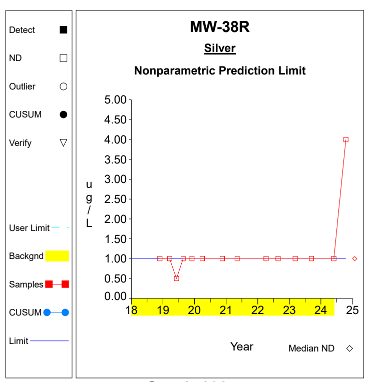


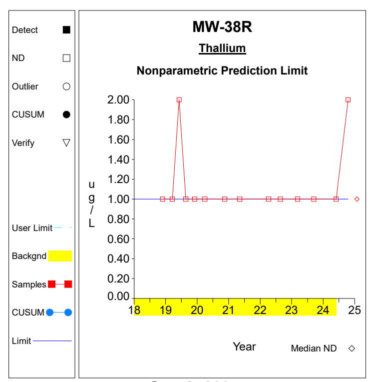
Graph 160



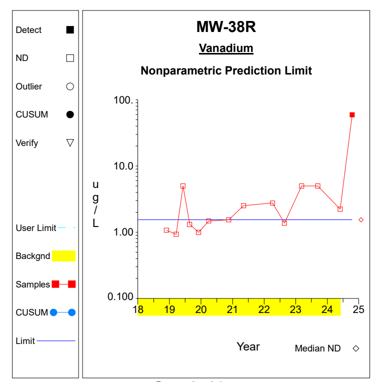
Graph 161



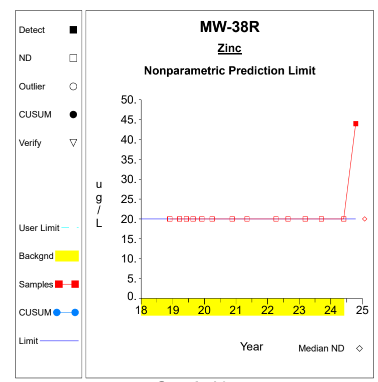
Graph 162



Graph 163



Graph 164



Graph 165

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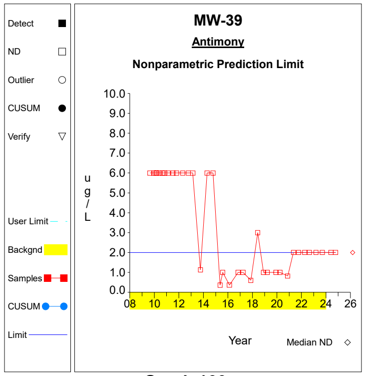
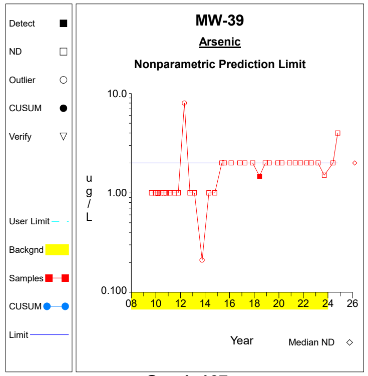
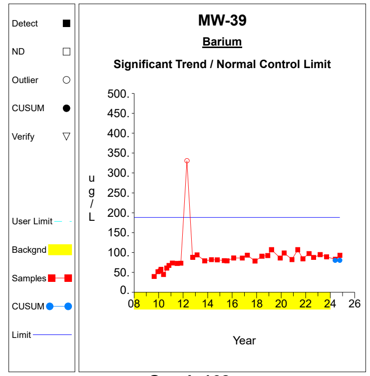


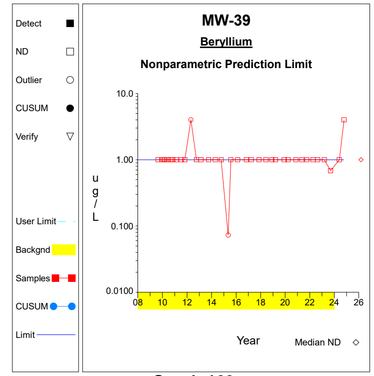
Graph 166



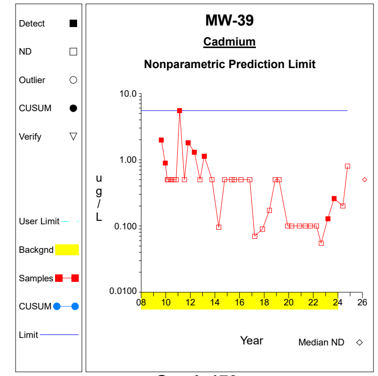
Graph 167



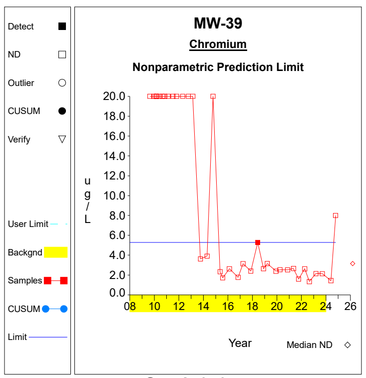
Graph 168



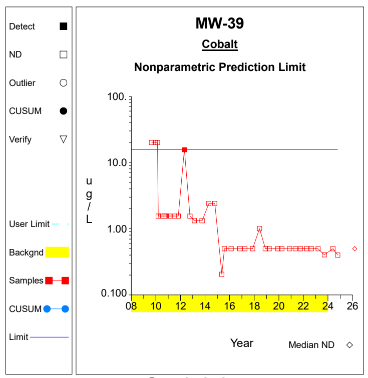
Graph 169



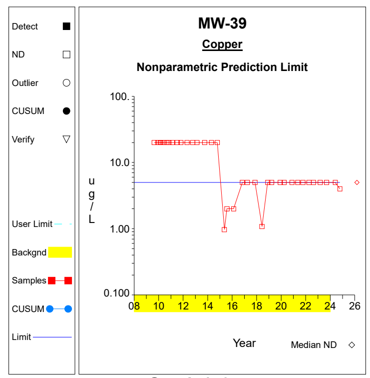
Graph 170



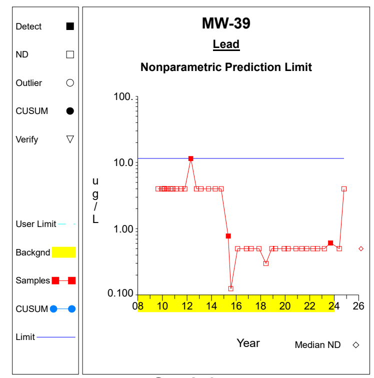
Graph 171



Graph 172



Graph 173



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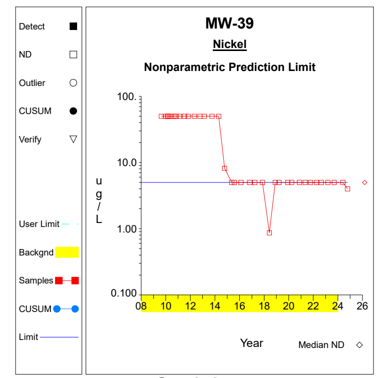
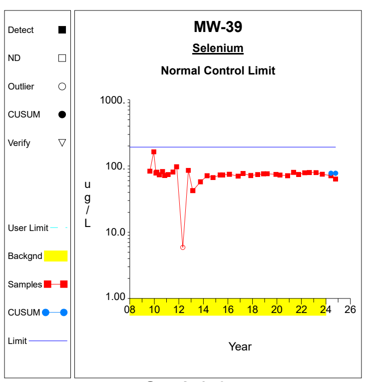
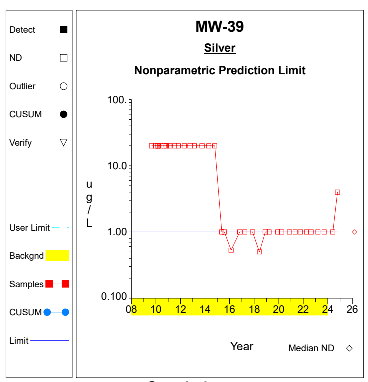


Graph 175



Graph 176



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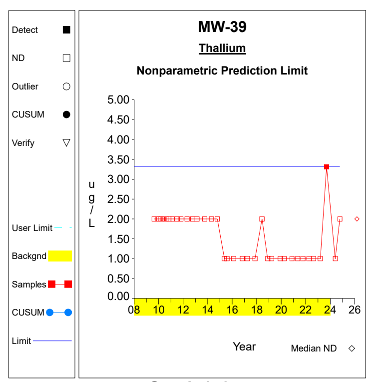
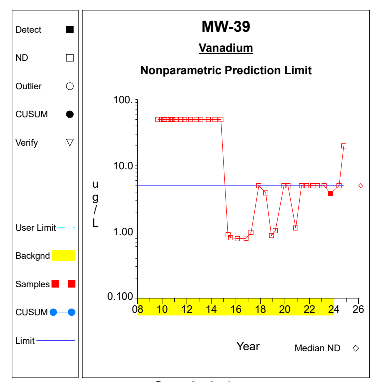
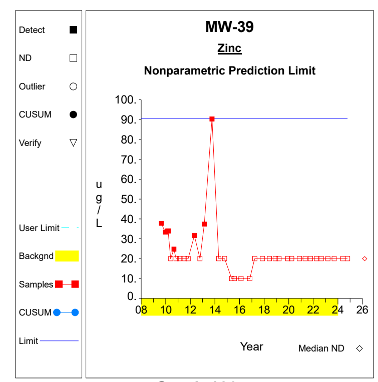


Graph 178



Graph 179



Graph 180

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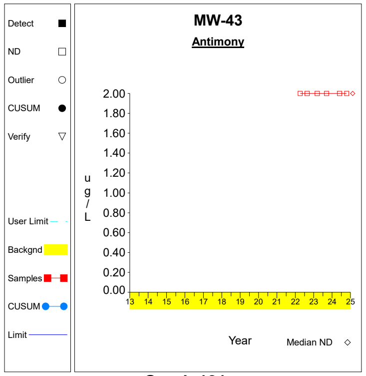
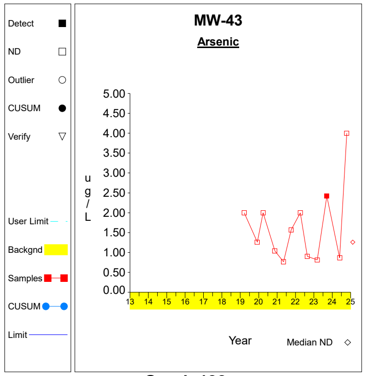
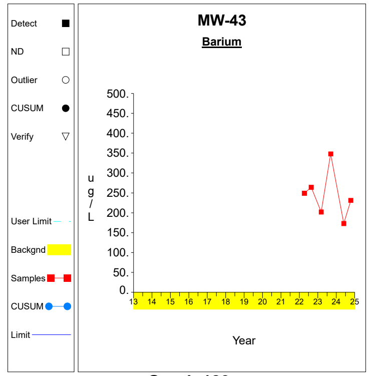


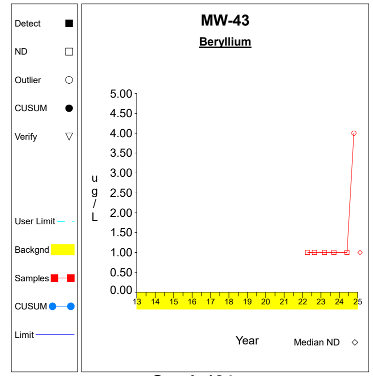
Graph 181



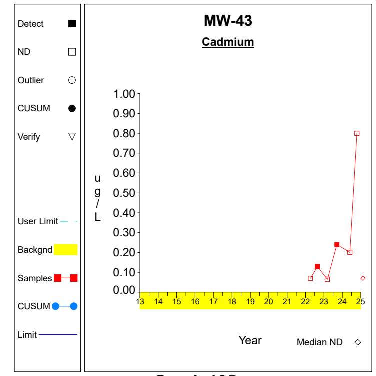
Graph 182



Graph 183



Graph 184



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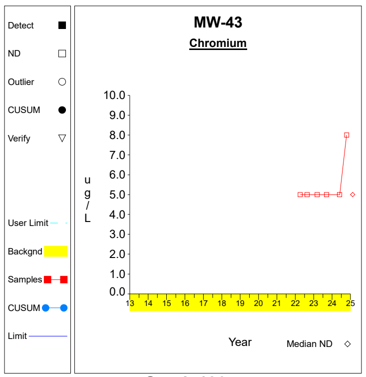
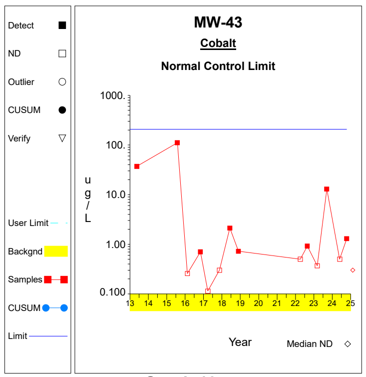
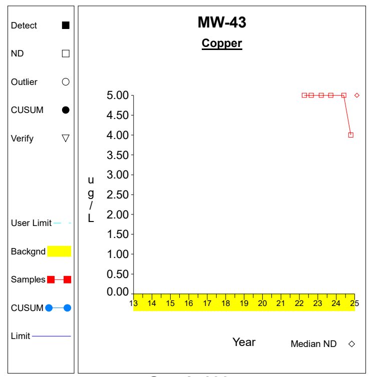


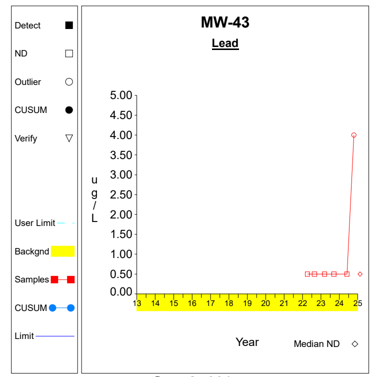
Graph 186



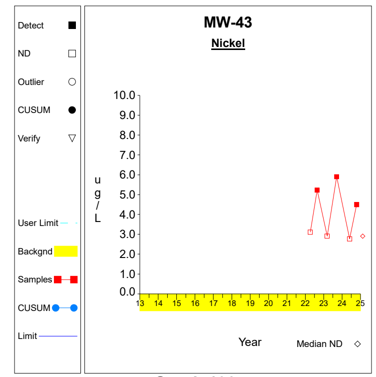
Graph 187



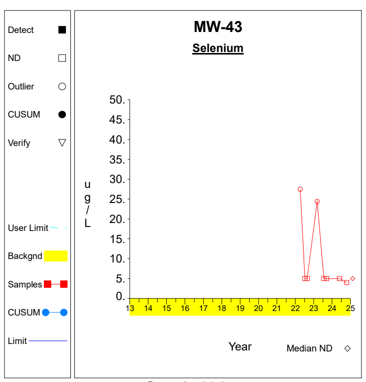
Graph 188



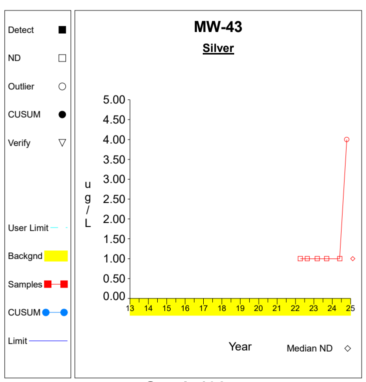
Graph 189



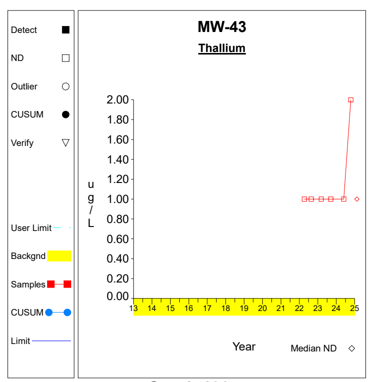
Graph 190



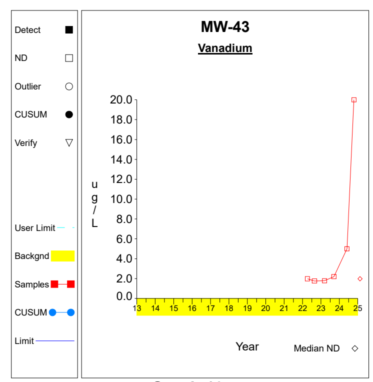
Graph 191



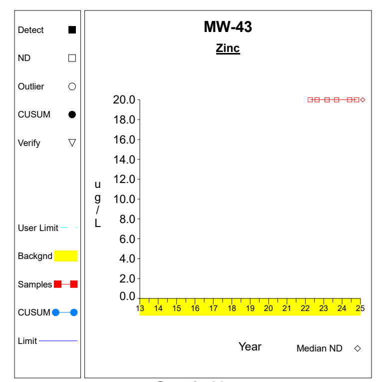
Graph 192



Graph 193



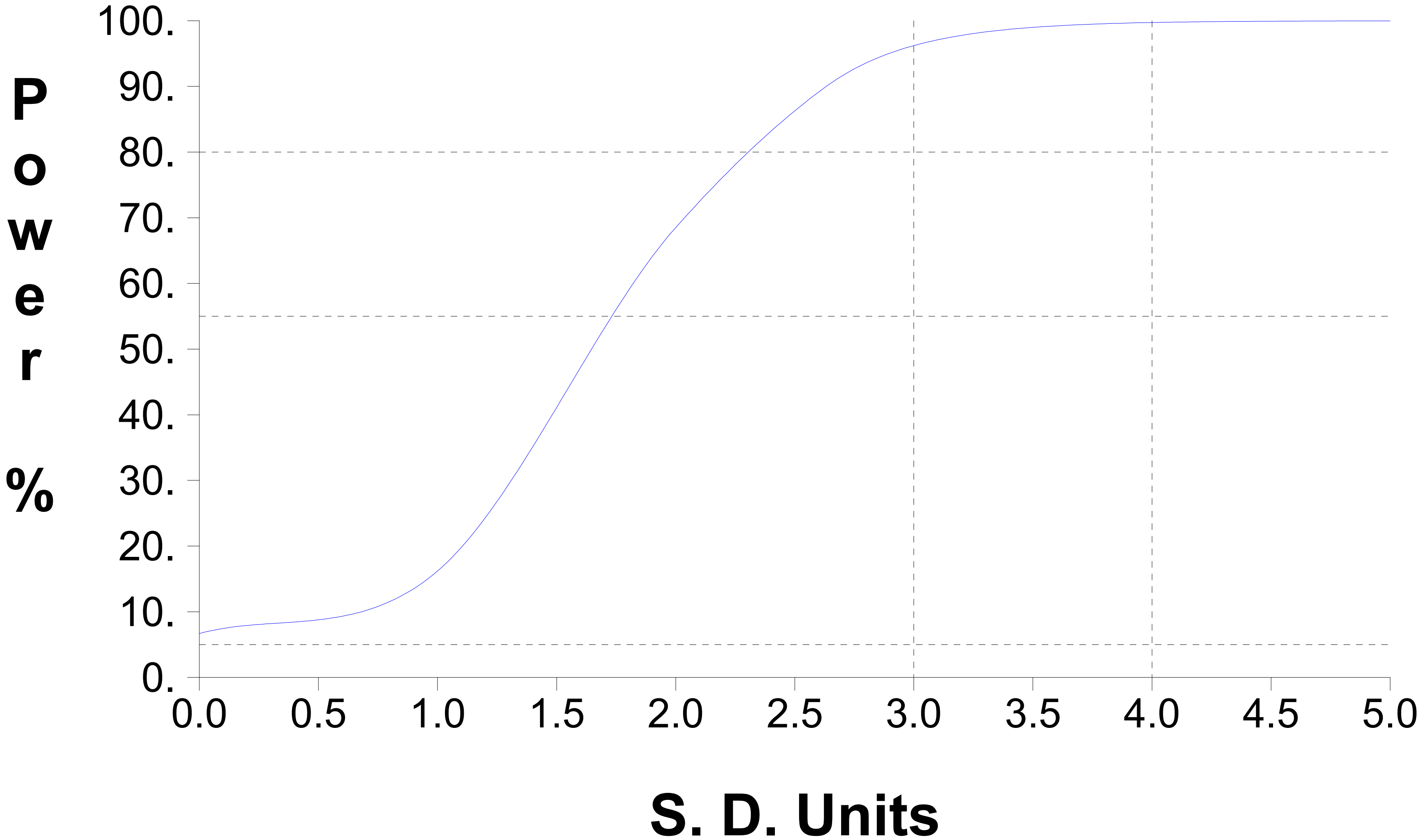
Graph 194



Graph 195

Prepared by: Otter Creek Environmental

False Positive and False Negative Rates for Current Intra-Well Control Charts Monitoring Program



Attachment E

Summary Tables and Graphs for the LCL Comparisons – Trace Metals

Table 1

Confidence Intervals for Comparing the Mean of the Last 4 Measurements to an Assessment Monitoring Standard

Constituent	Units	Well	N	Mean	SD	Factor	95% LCL	95% UCL	Standard	Trend	
Antimony	ug/L	MW-11	4	1.500	0.000	1.176	1.500	1.500	6.000		
Arsenic	ug/L	MW-11	4	9.943	4.739	1.176	4.368	15.517	10.000		
Barium	ug/L	MW-11	4	555.750	173.033	1.176	352.214	759.286	2000.000		
Beryllium	ug/L	MW-11	4	0.500	0.000	1.176	0.500	0.500	4.000		
Cadmium	ug/L	MW-11	4	0.243	0.020	1.176	0.219	0.267	5.000	dec	
Chromium	ug/L	MW-11	4	2.500	0.000	1.176	2.500	2.500	100.000		
Cobalt	ug/L	MW-11	4	8.583	4.675	1.176	3.083	14.082	2.100		**
Copper	ug/L	MW-11	4	4.300	3.600	1.176	0.065	8.535	1300.000		
Lead	ug/L	MW-11	4	0.531	0.042	1.176	0.481	0.580	15.000		
Nickel	ug/L	MW-11	4	11.008	6.615	1.176	3.226	18.789	100.000	dec	
Selenium	ug/L	MW-11	4	2.500	0.000	1.176	2.500	2.500	50.000		
Silver	ug/L	MW-11	4	1.256	0.098	1.176	1.142	1.371	100.000		
Thallium	ug/L	MW-11	4	2.778	3.410	1.176	0.000	6.789	2.000		
Vanadium	ug/L	MW-11	4	2.500	0.000	1.176	2.500	2.500	35.000		
Zinc	ug/L	MW-11	4	14.600	9.200	1.176	3.778	25.422	2000.000		
Antimony	ug/L	MW-15R	4	1.000	0.000	1.176	1.000	1.000	6.000		
Arsenic	ug/L	MW-15R	4	4.808	4.974	1.176	0.000	10.658	10.000		
Barium	ug/L	MW-15R	4	324.500	49.116	1.176	266.726	382.274	2000.000	inc	
Beryllium	ug/L	MW-15R	4	0.500	0.000	1.176	0.500	0.500	4.000		
Cadmium	ug/L	MW-15R	4	0.056	0.000	1.176	0.055	0.056	5.000		
Chromium	ug/L	MW-15R	4	2.500	0.000	1.176	2.500	2.500	100.000		
Cobalt	ug/L	MW-15R	4	1.858	1.951	1.176	0.000	4.152	2.100		
Copper	ug/L	MW-15R	4	2.500	0.000	1.176	2.500	2.500	1300.000		
Lead	ug/L	MW-15R	4	0.250	0.000	1.176	0.250	0.250	15.000		
Nickel	ug/L	MW-15R	4	3.450	1.900	1.176	1.215	5.685	100.000		
Selenium	ug/L	MW-15R	4	2.500	0.000	1.176	2.500	2.500	50.000		
Silver	ug/L	MW-15R	4	0.500	0.000	1.176	0.500	0.500	100.000		
Thallium	ug/L	MW-15R	4	0.500	0.000	1.176	0.500	0.500	2.000		
Vanadium	ug/L	MW-15R	4	2.500	0.000	1.176	2.500	2.500	35.000		
Zinc	ug/L	MW-15R	4	10.000	0.000	1.176	10.000	10.000	2000.000		
Antimony	ug/L	MW-19	4	1.000	0.000	1.176	1.000	1.000	6.000		
Arsenic	ug/L	MW-19	4	0.720	0.000	1.176	0.720	0.720	10.000		
Barium	ug/L	MW-19	4	1136.500	143.790	1.176	967.361	1305.639	2000.000	inc	
Beryllium	ug/L	MW-19	4	0.500	0.000	1.176	0.500	0.500	4.000		
Cadmium	ug/L	MW-19	4	0.050	0.000	1.176	0.050	0.050	5.000	dec	
Chromium	ug/L	MW-19	4	2.500	0.000	1.176	2.500	2.500	100.000		
Cobalt	ug/L	MW-19	4	22.563	2.048	1.176	20.153	24.972	2.100	inc	**
Copper	ug/L	MW-19	4	2.500	0.000	1.176	2.500	2.500	1300.000		
Lead	ug/L	MW-19	4	0.250	0.000	1.176	0.250	0.250	15.000		
Nickel	ug/L	MW-19	4	55.013	8.316	1.176	45.230	64.795	100.000		
Selenium	ug/L	MW-19	4	2.500	0.000	1.176	2.500	2.500	50.000		
Silver	ug/L	MW-19	4	0.500	0.000	1.176	0.500	0.500	100.000		
Thallium	ug/L	MW-19	4	0.500	0.000	1.176	0.500	0.500	2.000		
Vanadium	ug/L	MW-19	4	2.500	0.000	1.176	2.500	2.500	35.000		
Zinc	ug/L	MW-19	4	10.000	0.000	1.176	10.000	10.000	2000.000		
Antimony	ug/L	MW-20	4	1.000	0.000	1.176	1.000	1.000	6.000		
Arsenic	ug/L	MW-20	4	87.825	16.525	1.176	68.386	107.264	10.000		**
Barium	ug/L	MW-20	4	2797.500	957.927	1.176	1670.701	3924.299	2000.000	dec	
Beryllium	ug/L	MW-20	4	0.500	0.000	1.176	0.500	0.500	4.000		
Cadmium	ug/L	MW-20	4	0.250	0.000	1.176	0.250	0.250	5.000		
Chromium	ug/L	MW-20	4	2.500	0.000	1.176	2.500	2.500	100.000		
Cobalt	ug/L	MW-20	4	11.710	3.435	1.176	7.669	15.751	2.100	dec	**
Copper	ug/L	MW-20	4	2.500	0.000	1.176	2.500	2.500	1300.000		
Lead	ug/L	MW-20	4	0.250	0.000	1.176	0.250	0.250	15.000		
Nickel	ug/L	MW-20	4	48.150	26.329	1.176	17.179	79.121	100.000	dec	
Selenium	ug/L	MW-20	4	2.500	0.000	1.176	2.500	2.500	50.000		
Silver	ug/L	MW-20	4	0.500	0.000	1.176	0.500	0.500	100.000		
Thallium	ug/L	MW-20	4	1.000	0.000	1.176	1.000	1.000	2.000		
Vanadium	ug/L	MW-20	4	2.300	0.000	1.176	2.300	2.300	35.000		
Zinc	ug/L	MW-20	4	10.000	0.000	1.176	10.000	10.000	2000.000		
Antimony	ug/L	MW-21	4	1.000	0.000	1.176	1.000	1.000	6.000		
Arsenic	ug/L	MW-21	4	2.515	2.925	1.176	0.000	5.955	10.000		
Barium	ug/L	MW-21	4	1182.500	56.199	1.176	1116.394	1248.606	2000.000	inc	
Beryllium	ug/L	MW-21	4	0.500	0.000	1.176	0.500	0.500	4.000		
Cadmium	ug/L	MW-21	4	0.100	0.000	1.176	0.100	0.100	5.000		
Chromium	ug/L	MW-21	4	2.500	0.000	1.176	2.500	2.500	100.000		
Cobalt	ug/L	MW-21	4	7.740	3.907	1.176	3.145	12.335	2.100		**
Copper	ug/L	MW-21	4	3.725	2.450	1.176	0.843	6.607	1300.000		
Lead	ug/L	MW-21	4	0.250	0.000	1.176	0.250	0.250	15.000		
Nickel	ug/L	MW-21	4	18.108	9.362	1.176	7.095	29.120	100.000		
Selenium	ug/L	MW-21	4	2.500	0.000	1.176	2.500	2.500	50.000		
Silver	ug/L	MW-21	4	0.500	0.000	1.176	0.500	0.500	100.000		

* - Insufficient Data
** - Significant Exceedance
LCL = Lower Confidence Limit
UCL = Upper Confidence Limit

Table 1

Confidence Intervals for Comparing the Mean of the Last 4 Measurements to an Assessment Monitoring Standard

Constituent	Units	Well	N	Mean	SD	Factor	95% LCL	95% UCL	Standard	Trend	
Thallium	ug/L	MW-21	4	0.500	0.000	1.176	0.500	0.500	2.000		
Vanadium	ug/L	MW-21	4	2.500	0.000	1.176	2.500	2.500	35.000		
Zinc	ug/L	MW-21	4	14.525	9.050	1.176	3.880	25.170	2000.000		
Antimony	ug/L	MW-22	4	3.610	1.364	1.066	2.157	5.063	6.000		
Arsenic	ug/L	MW-22	4	0.500	0.000	1.176	0.500	0.500	10.000		
Barium	ug/L	MW-22	4	240.250	8.302	1.176	230.485	250.015	2000.000		
Beryllium	ug/L	MW-22	4	0.500	0.000	1.176	0.500	0.500	4.000		
Cadmium	ug/L	MW-22	4	0.234	0.032	1.176	0.196	0.272	5.000		
Chromium	ug/L	MW-22	4	2.500	0.000	1.176	2.500	2.500	100.000		
Cobalt	ug/L	MW-22	4	0.500	0.000	1.176	0.500	0.500	2.100		
Copper	ug/L	MW-22	4	2.500	0.000	1.176	2.500	2.500	1300.000		
Lead	ug/L	MW-22	4	0.500	0.000	1.176	0.500	0.500	15.000		
Nickel	ug/L	MW-22	4	4.563	4.125	1.176	0.000	9.415	100.000		
Selenium	ug/L	MW-22	4	2.500	0.000	1.176	2.500	2.500	50.000		
Silver	ug/L	MW-22	4	0.500	0.000	1.176	0.500	0.500	100.000		
Thallium	ug/L	MW-22	4	0.500	0.000	1.176	0.500	0.500	2.000		
Vanadium	ug/L	MW-22	4	1.500	0.000	1.176	1.500	1.500	35.000		
Zinc	ug/L	MW-22	4	10.000	0.000	1.176	10.000	10.000	2000.000		
Antimony	ug/L	MW-23	4	1.500	0.000	1.176	1.500	1.500	6.000		
Arsenic	ug/L	MW-23	4	1.000	0.000	1.176	1.000	1.000	10.000		
Barium	ug/L	MW-23	4	121.075	65.410	1.176	44.134	198.016	2000.000	dec	
Beryllium	ug/L	MW-23	4	0.500	0.000	1.176	0.500	0.500	4.000		
Cadmium	ug/L	MW-23	4	0.250	0.000	1.176	0.250	0.250	5.000		
Chromium	ug/L	MW-23	4	2.500	0.000	1.176	2.500	2.500	100.000		
Cobalt	ug/L	MW-23	4	0.475	0.050	1.176	0.416	0.534	2.100		
Copper	ug/L	MW-23	4	2.500	0.000	1.176	2.500	2.500	1300.000		
Lead	ug/L	MW-23	4	0.500	0.000	1.176	0.500	0.500	15.000		
Nickel	ug/L	MW-23	4	2.500	0.000	1.176	2.500	2.500	100.000		
Selenium	ug/L	MW-23	4	1.500	0.000	1.176	1.500	1.500	50.000		
Silver	ug/L	MW-23	4	0.500	0.000	1.176	0.500	0.500	100.000		
Thallium	ug/L	MW-23	4	1.125	0.250	1.176	0.831	1.419	2.000		
Vanadium	ug/L	MW-23	4	2.500	0.000	1.176	2.500	2.500	35.000		
Zinc	ug/L	MW-23	4	14.913	9.825	1.176	3.355	26.470	2000.000		
Antimony	ug/L	MW-24	4	1.000	0.000	1.176	1.000	1.000	6.000		
Arsenic	ug/L	MW-24	4	2.951	4.633	1.176	0.000	8.400	10.000		
Barium	ug/L	MW-24	4	703.000	97.348	1.176	588.490	817.510	2000.000		
Beryllium	ug/L	MW-24	4	0.500	0.000	1.176	0.500	0.500	4.000		
Cadmium	ug/L	MW-24	4	0.935	0.236	1.176	0.657	1.212	5.000		
Chromium	ug/L	MW-24	4	2.500	0.000	1.176	2.500	2.500	100.000		
Cobalt	ug/L	MW-24	4	3.145	0.875	1.176	2.116	4.174	2.100		**
Copper	ug/L	MW-24	4	3.025	1.050	1.176	1.790	4.260	1300.000		
Lead	ug/L	MW-24	4	0.250	0.000	1.176	0.250	0.250	15.000		
Nickel	ug/L	MW-24	4	29.300	3.777	1.176	24.857	33.743	100.000		
Selenium	ug/L	MW-24	4	2.500	0.000	1.176	2.500	2.500	50.000		
Silver	ug/L	MW-24	4	0.500	0.000	1.176	0.500	0.500	100.000		
Thallium	ug/L	MW-24	4	0.500	0.000	1.176	0.500	0.500	2.000		
Vanadium	ug/L	MW-24	4	2.500	0.000	1.176	2.500	2.500	35.000		
Zinc	ug/L	MW-24	4	10.000	0.000	1.176	10.000	10.000	2000.000		
Antimony	ug/L	MW-36	4	1.000	0.000	1.176	1.000	1.000	6.000		
Arsenic	ug/L	MW-36	4	1.000	0.000	1.176	1.000	1.000	10.000		
Barium	ug/L	MW-36	4	152.125	33.547	1.176	112.664	191.586	2000.000	dec	
Beryllium	ug/L	MW-36	4	1.413	1.825	1.176	0.000	3.559	4.000		
Cadmium	ug/L	MW-36	4	1.096	0.960	1.176	0.000	2.225	5.000	dec	
Chromium	ug/L	MW-36	4	13.100	21.200	1.176	0.000	38.037	100.000		
Cobalt	ug/L	MW-36	4	7.714	11.333	1.176	0.000	21.044	2.100	dec	
Copper	ug/L	MW-36	4	4.900	4.800	1.176	0.000	10.546	1300.000		
Lead	ug/L	MW-36	4	2.295	2.962	1.176	0.000	5.779	15.000	dec	
Nickel	ug/L	MW-36	4	38.743	55.748	1.176	0.000	104.319	100.000		
Selenium	ug/L	MW-36	4	1.500	0.000	1.176	1.500	1.500	50.000		
Silver	ug/L	MW-36	4	0.500	0.000	1.176	0.500	0.500	100.000		
Thallium	ug/L	MW-36	4	0.500	0.000	1.176	0.500	0.500	2.000		
Vanadium	ug/L	MW-36	4	11.450	13.324	1.176	0.000	27.123	35.000		
Zinc	ug/L	MW-36	4	15.800	11.600	1.176	2.155	29.445	2000.000	dec	
Antimony	ug/L	MW-37R	4	0.765	0.000	1.176	0.765	0.765	6.000		
Arsenic	ug/L	MW-37R	4	0.630	0.000	1.176	0.630	0.630	10.000		
Barium	ug/L	MW-37R	4	739.250	83.420	1.176	641.124	837.376	2000.000		
Beryllium	ug/L	MW-37R	4	0.500	0.000	1.176	0.500	0.500	4.000		
Cadmium	ug/L	MW-37R	4	0.152	0.050	1.176	0.093	0.212	5.000		
Chromium	ug/L	MW-37R	4	2.500	0.000	1.176	2.500	2.500	100.000		
Cobalt	ug/L	MW-37R	4	0.711	0.413	1.176	0.225	1.197	2.100		
Copper	ug/L	MW-37R	4	1.850	0.000	1.176	1.850	1.850	1300.000		
Lead	ug/L	MW-37R	4	1.338	0.801	1.176	0.396	2.279	15.000		

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LCL = Lower Confidence Limit
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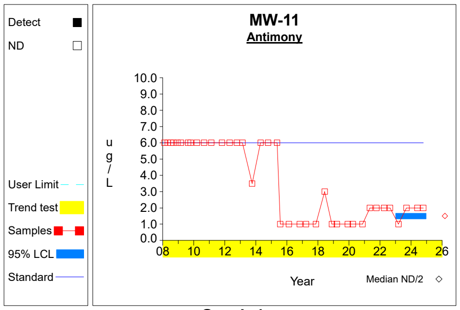
Table 1

Confidence Intervals for Comparing the Mean of the Last 4 Measurements to an Assessment Monitoring Standard

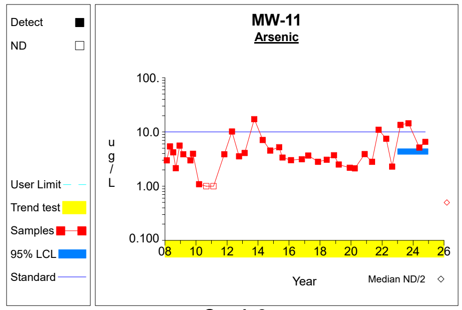
Constituent	Units	Well	N	Mean	SD	Factor	95% LCL	95% UCL	Standard	Trend	
Nickel	ug/L	MW-37R	4	4.675	5.350	1.176	0.000	10.968	100.000		
Selenium	ug/L	MW-37R	4	33.050	18.604	1.176	11.166	54.934	50.000		
Silver	ug/L	MW-37R	4	0.500	0.000	1.176	0.500	0.500	100.000		
Thallium	ug/L	MW-37R	4	0.500	0.000	1.176	0.500	0.500	2.000		
Vanadium	ug/L	MW-37R	4	1.100	0.000	1.176	1.100	1.100	35.000		
Zinc	ug/L	MW-37R	4	10.000	0.000	1.176	10.000	10.000	2000.000		
Antimony	ug/L	MW-38R	4	1.000	0.000	1.176	1.000	1.000	6.000		
Arsenic	ug/L	MW-38R	4	4.675	7.350	1.176	0.000	13.321	10.000		
Barium	ug/L	MW-38R	4	270.750	51.448	1.176	210.232	331.268	2000.000		
Beryllium	ug/L	MW-38R	4	0.500	0.000	1.176	0.500	0.500	4.000		
Cadmium	ug/L	MW-38R	4	0.532	0.912	1.176	0.000	1.605	5.000		
Chromium	ug/L	MW-38R	4	100.000	113.821	1.176	0.000	233.886	100.000		
Cobalt	ug/L	MW-38R	4	4.998	7.971	1.176	0.000	14.374	2.100		
Copper	ug/L	MW-38R	4	8.695	10.261	1.176	0.000	20.765	1300.000		
Lead	ug/L	MW-38R	4	3.813	7.125	1.176	0.000	12.194	15.000		
Nickel	ug/L	MW-38R	4	71.920	78.732	1.176	0.000	164.532	100.000		
Selenium	ug/L	MW-38R	4	26.625	14.552	1.176	9.508	43.742	50.000		
Silver	ug/L	MW-38R	4	0.500	0.000	1.176	0.500	0.500	100.000		
Thallium	ug/L	MW-38R	4	0.500	0.000	1.176	0.500	0.500	2.000		
Vanadium	ug/L	MW-38R	4	15.403	29.265	1.176	0.000	49.827	35.000		
Zinc	ug/L	MW-38R	4	18.500	17.000	1.176	0.000	38.497	2000.000		
Antimony	ug/L	MW-39	4	1.000	0.000	1.176	1.000	1.000	6.000		
Arsenic	ug/L	MW-39	4	1.000	0.000	1.176	1.000	1.000	10.000		
Barium	ug/L	MW-39	4	90.150	5.129	1.176	84.117	96.183	2000.000	inc	
Beryllium	ug/L	MW-39	4	0.500	0.000	1.176	0.500	0.500	4.000		
Cadmium	ug/L	MW-39	4	0.222	0.062	1.176	0.149	0.295	5.000		
Chromium	ug/L	MW-39	4	1.580	0.000	1.176	1.580	1.580	100.000		
Cobalt	ug/L	MW-39	4	0.250	0.000	1.176	0.250	0.250	2.100		
Copper	ug/L	MW-39	4	2.500	0.000	1.176	2.500	2.500	1300.000		
Lead	ug/L	MW-39	4	0.340	0.180	1.176	0.128	0.552	15.000		
Nickel	ug/L	MW-39	4	2.500	0.000	1.176	2.500	2.500	100.000		
Selenium	ug/L	MW-39	4	72.363	6.695	1.176	64.488	80.237	50.000		**
Silver	ug/L	MW-39	4	0.500	0.000	1.176	0.500	0.500	100.000		
Thallium	ug/L	MW-39	4	1.579	1.158	1.176	0.217	2.940	2.000		
Vanadium	ug/L	MW-39	4	2.828	0.655	1.176	2.057	3.598	35.000		
Zinc	ug/L	MW-39	4	10.000	0.000	1.176	10.000	10.000	2000.000		
Antimony	ug/L	MW-43	4	1.000	0.000	1.176	1.000	1.000	6.000		
Arsenic	ug/L	MW-43	4	1.078	0.895	1.176	0.025	2.130	10.000		
Barium	ug/L	MW-43	4	238.500	76.744	1.176	148.227	328.773	2000.000		
Beryllium	ug/L	MW-43	4	0.500	0.000	1.176	0.500	0.500	4.000		
Cadmium	ug/L	MW-43	4	0.086	0.102	1.176	0.000	0.207	5.000		
Chromium	ug/L	MW-43	4	2.500	0.000	1.176	2.500	2.500	100.000		
Cobalt	ug/L	MW-43	4	3.650	6.257	1.176	0.000	11.010	2.100		
Copper	ug/L	MW-43	4	2.500	0.000	1.176	2.500	2.500	1300.000		
Lead	ug/L	MW-43	4	0.250	0.000	1.176	0.250	0.250	15.000		
Nickel	ug/L	MW-43	4	3.328	2.236	1.176	0.697	5.958	100.000		
Selenium	ug/L	MW-43	4	2.500	0.000	1.176	2.500	2.500	50.000		
Silver	ug/L	MW-43	4	0.500	0.000	1.176	0.500	0.500	100.000		
Thallium	ug/L	MW-43	4	0.500	0.000	1.176	0.500	0.500	2.000		
Vanadium	ug/L	MW-43	4	0.990	0.000	1.176	0.990	0.990	35.000		
Zinc	ug/L	MW-43	4	10.000	0.000	1.176	10.000	10.000	2000.000		

* - Insufficient Data
** - Significant Exceedance
LCL = Lower Confidence Limit
UCL = Upper Confidence Limit

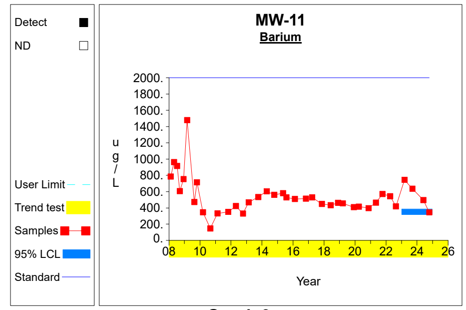
Confidence Limits (Assessment)



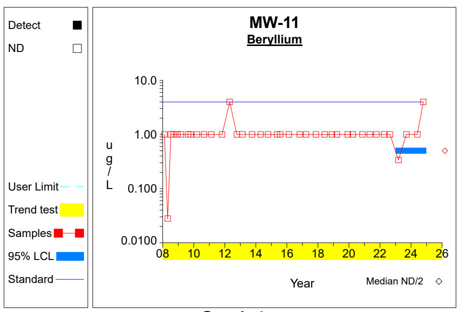
Graph 1



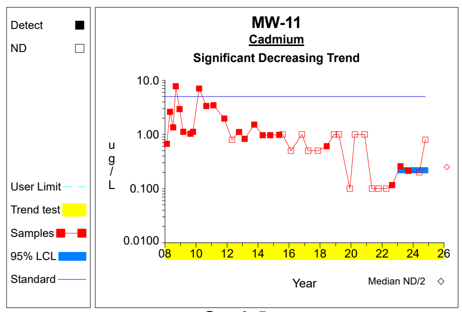
Graph 2



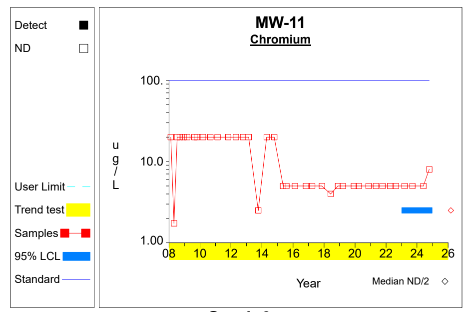
Graph 3



Graph 4



Graph 5



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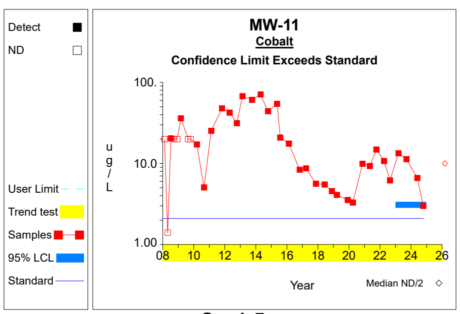
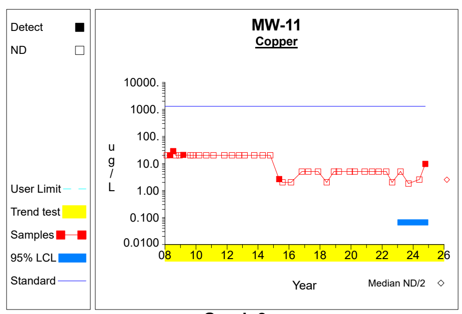
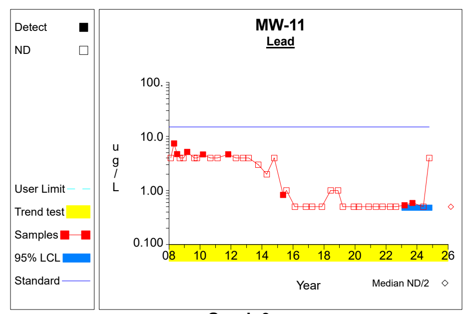


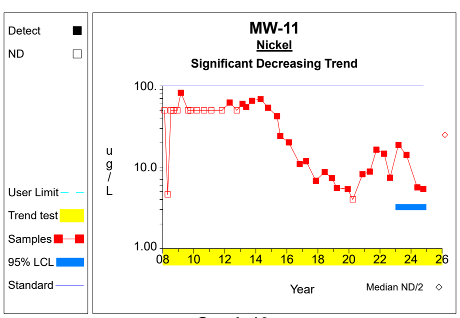
Graph 7



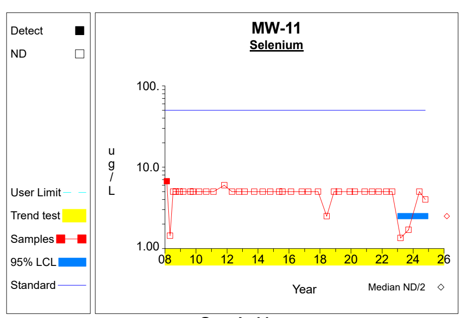
Graph 8



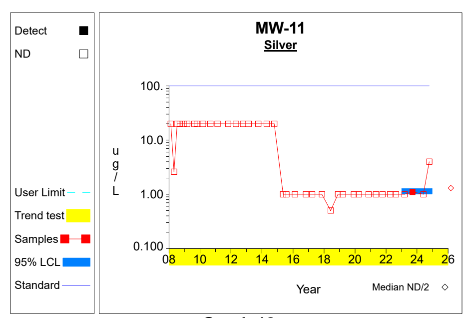
Graph 9



Graph 10



Graph 11



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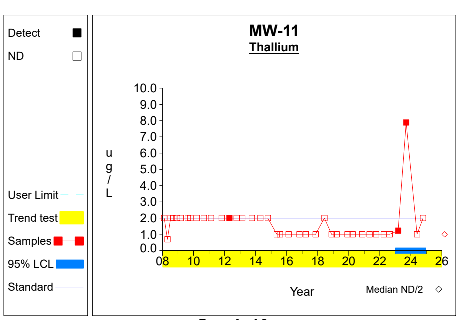

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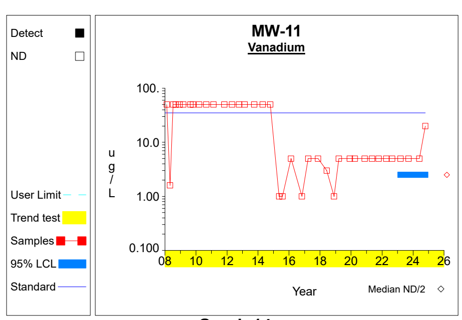

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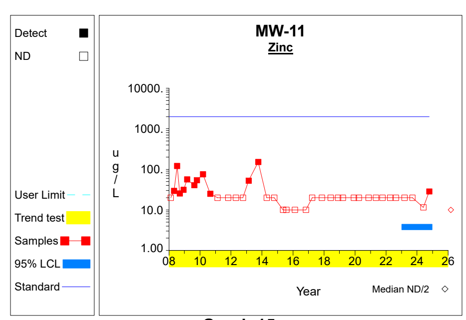
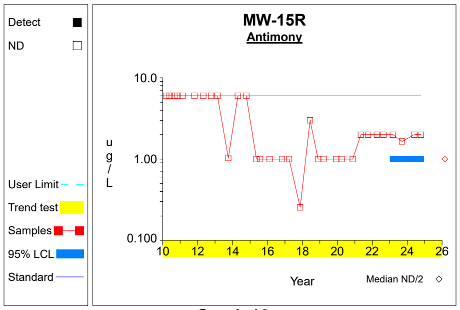
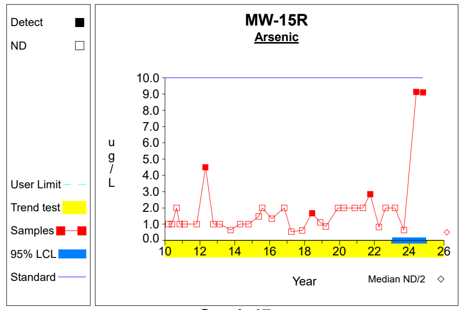


Graph 15

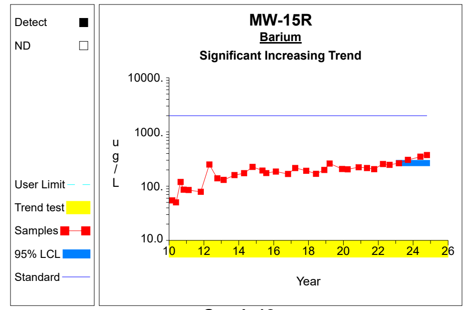
Confidence Limits (Assessment)



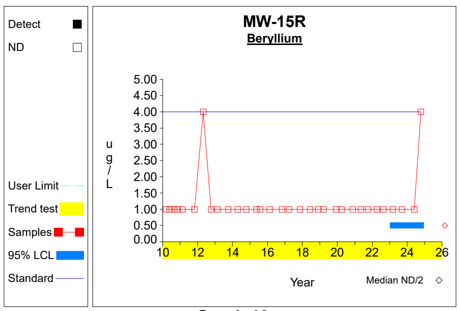
Graph 16



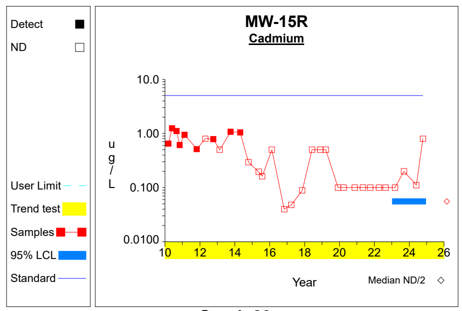
Graph 17



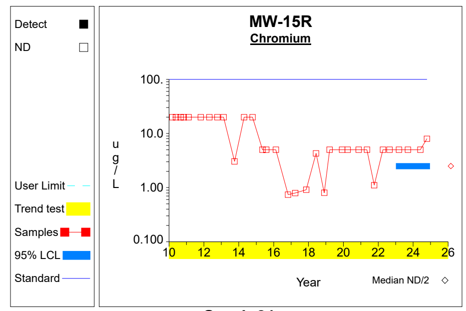
Graph 18



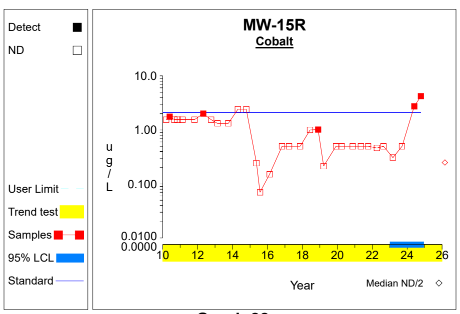
Graph 19



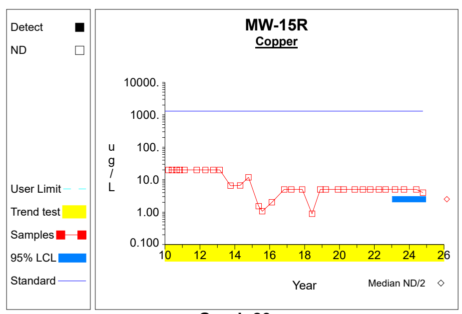
Graph 20



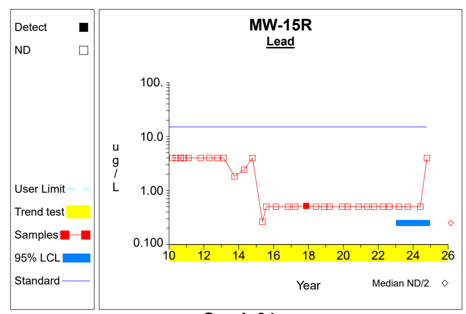
Graph 21



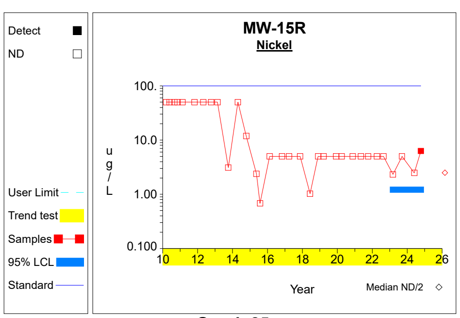
Graph 22



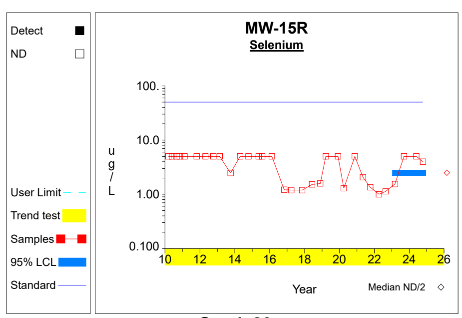
Graph 23



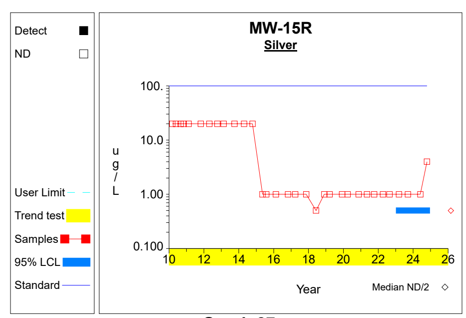
Graph 24



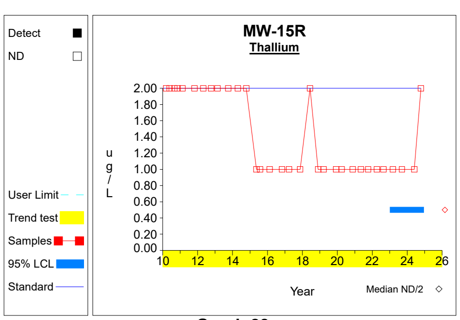
Graph 25



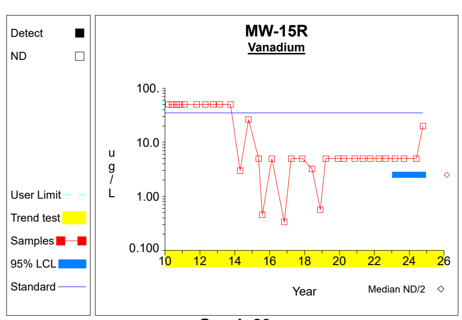
Graph 26



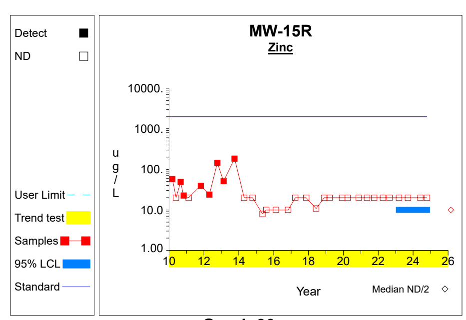
Graph 27



Graph 28

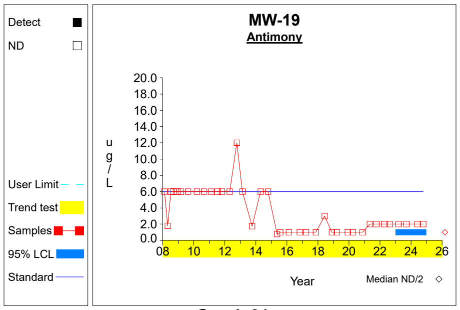


Graph 29

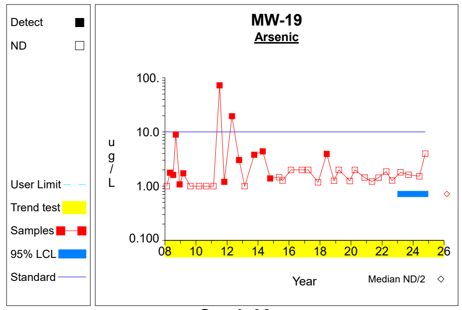


Graph 30

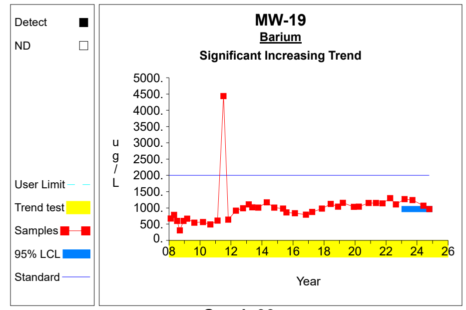
Confidence Limits (Assessment)



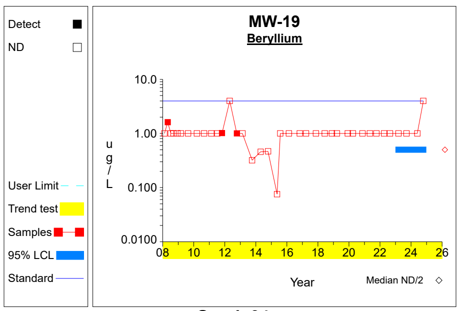
Graph 31



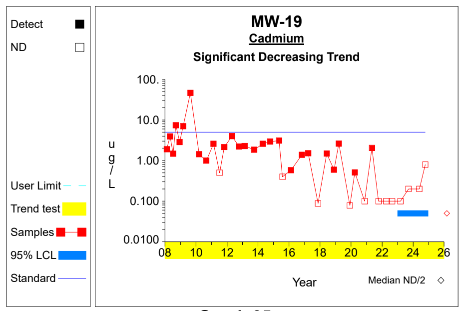
Graph 32



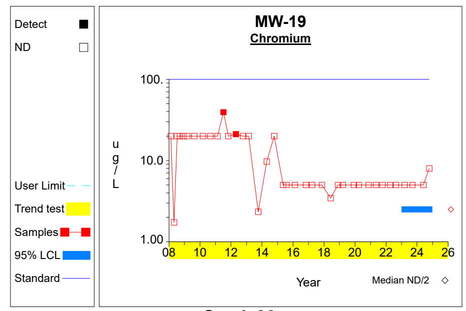
Graph 33



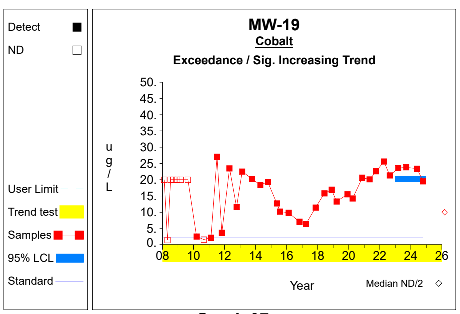
Graph 34



Graph 35



Graph 36



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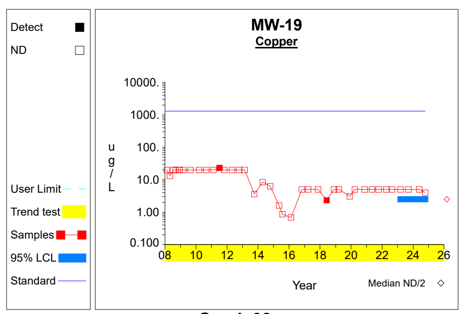

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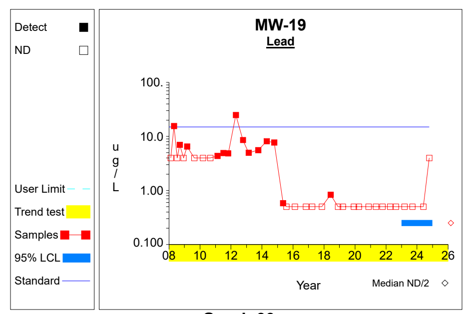

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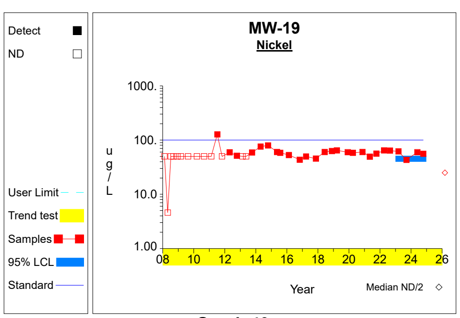

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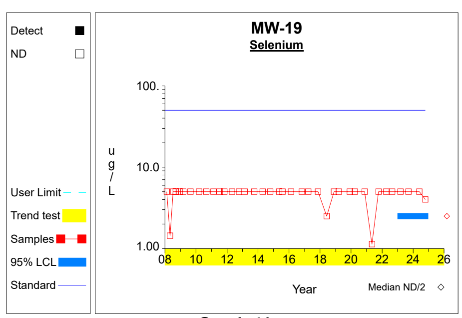

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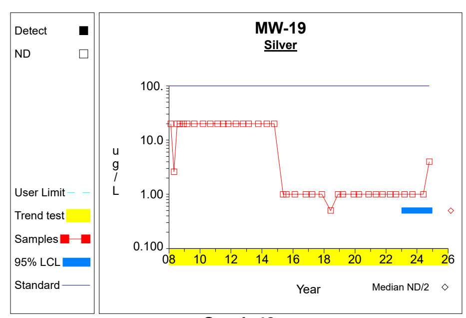

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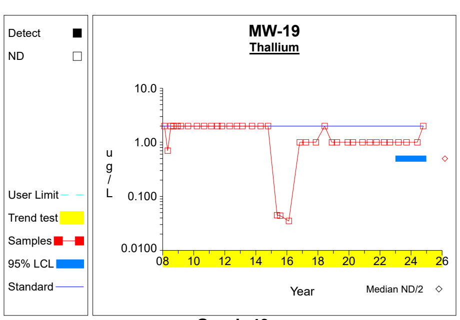

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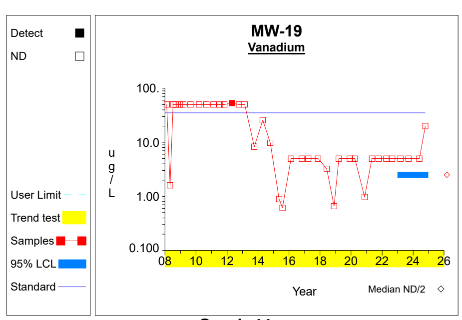

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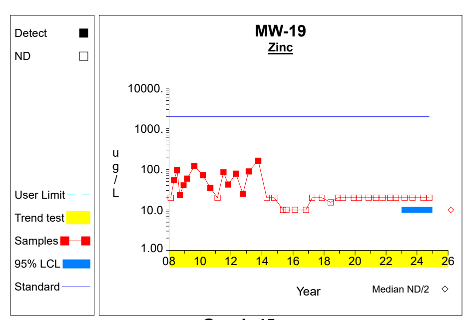
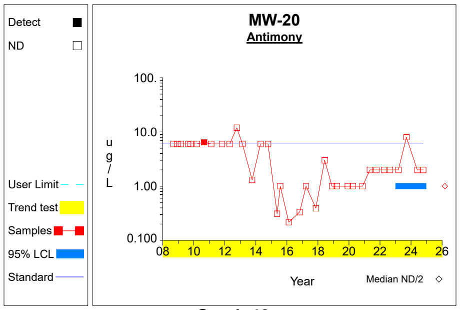


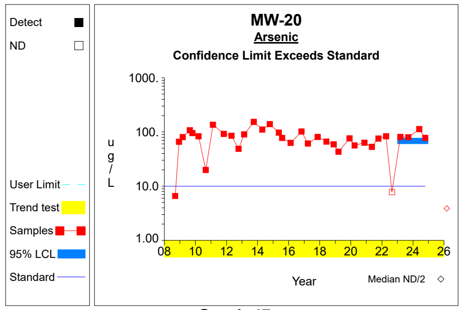
Graph 45

Prepared by: Otter Creek Environmental

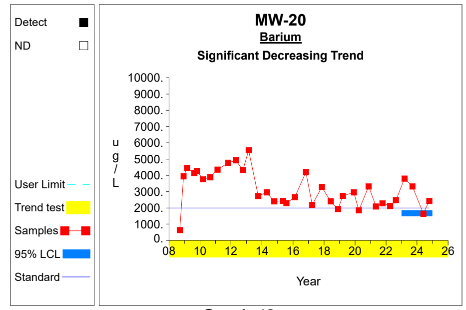
Confidence Limits (Assessment)



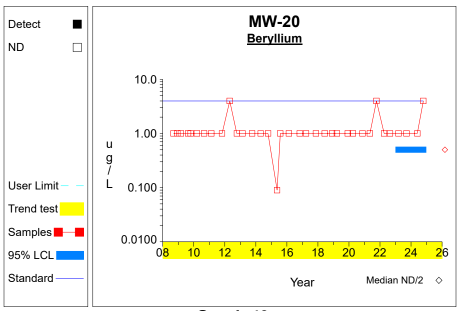
Graph 46



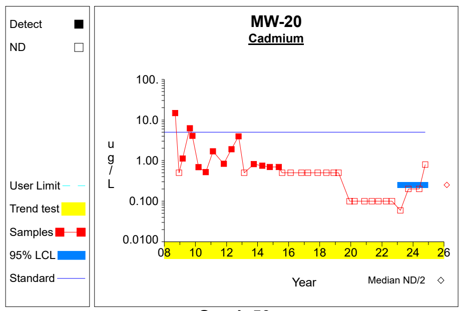
Graph 47



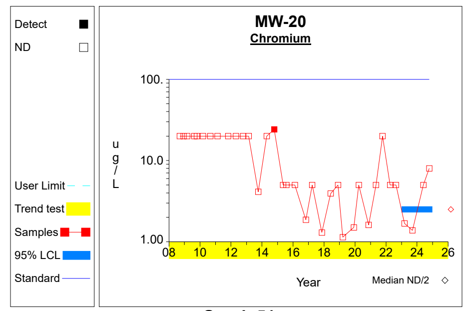
Graph 48



Graph 49



Graph 50



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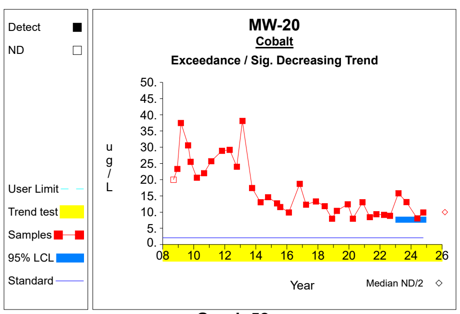
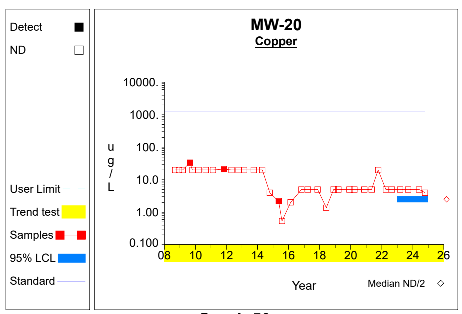
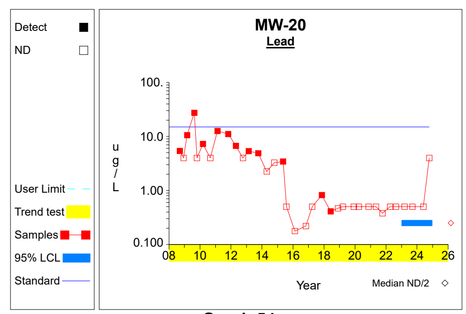


Graph 52



Graph 53



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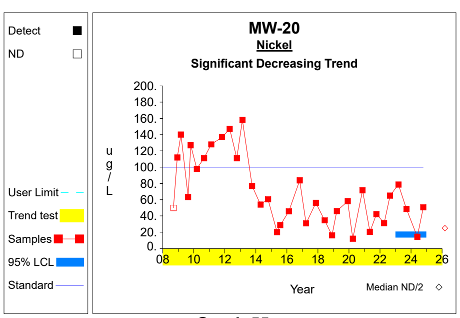

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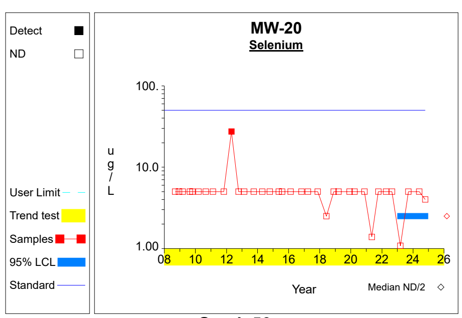
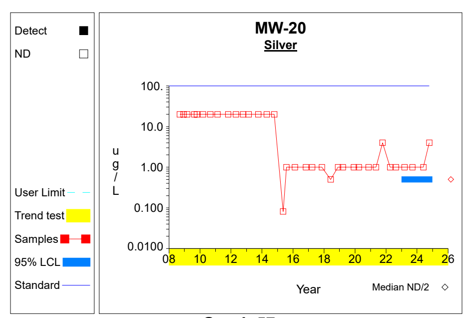


Graph 56



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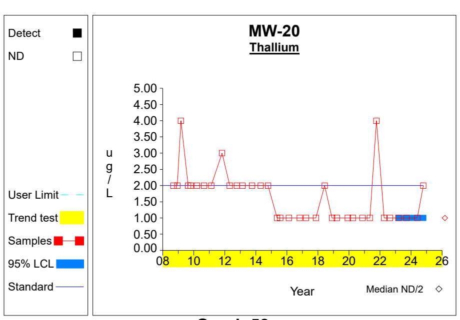

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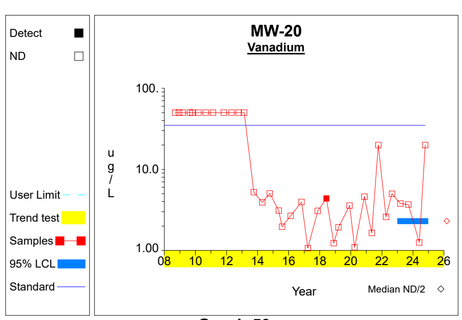

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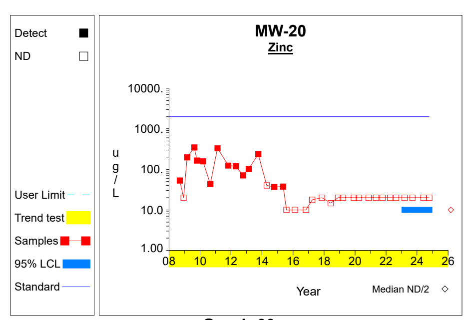
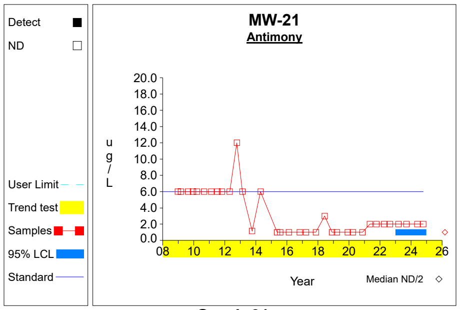


Graph 60

Confidence Limits (Assessment)



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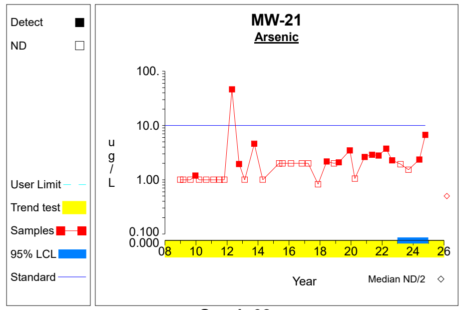
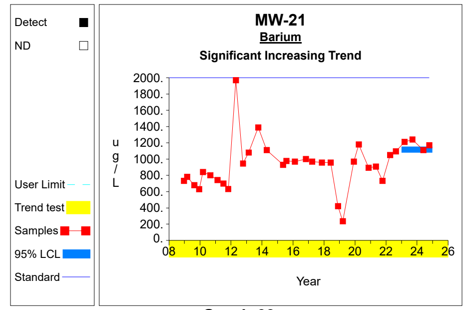
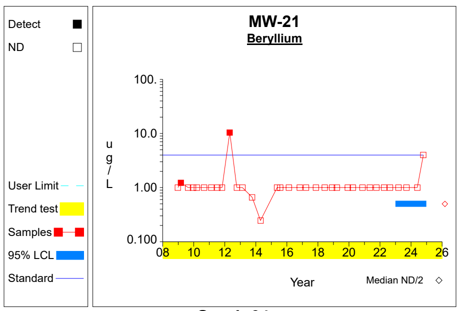


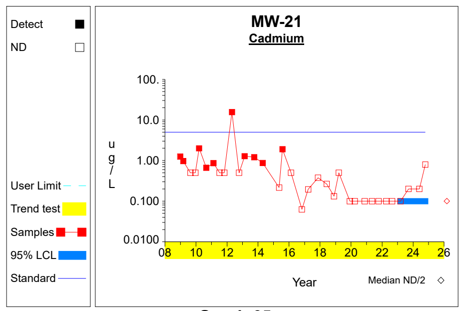
Graph 62



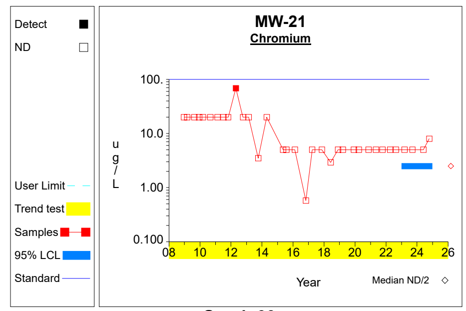
Graph 63



Graph 64



Graph 65



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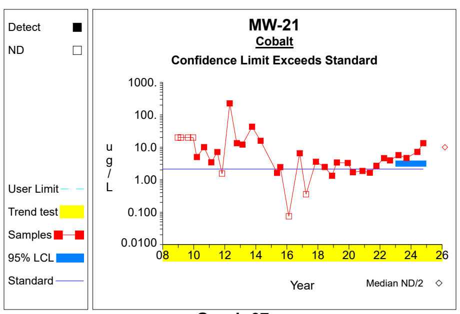
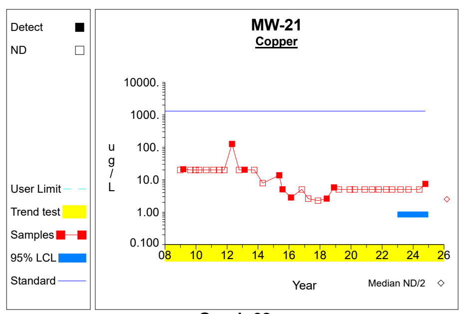
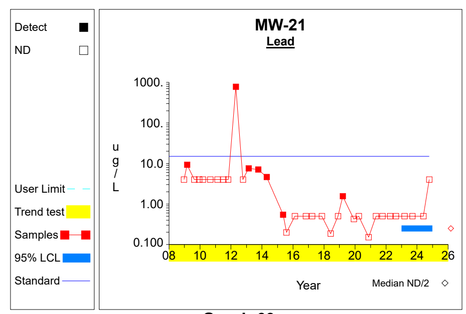


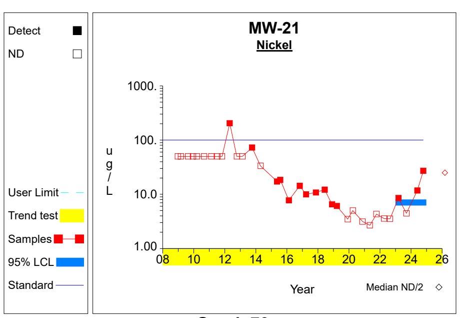
Graph 67



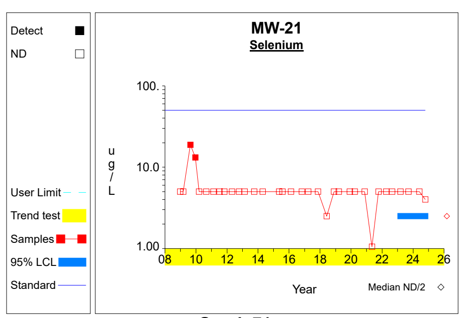
Graph 68



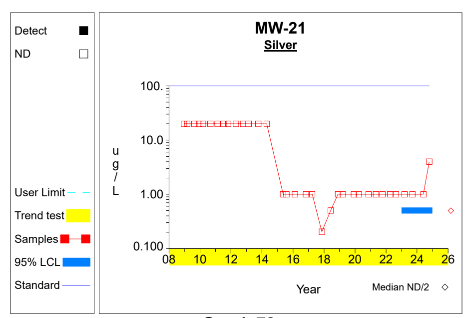
Graph 69



Graph 70



Graph 71



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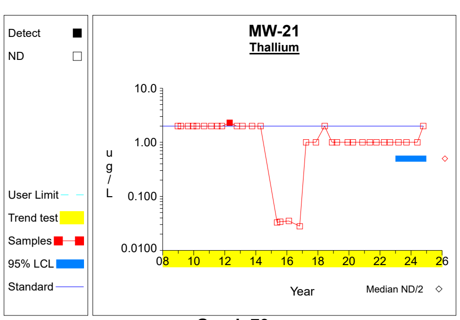

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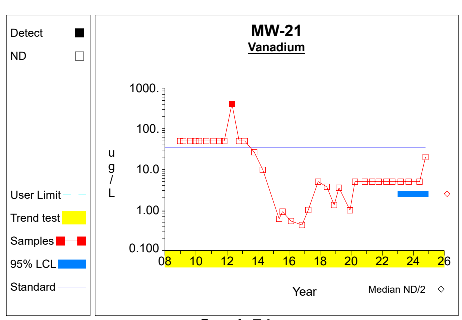

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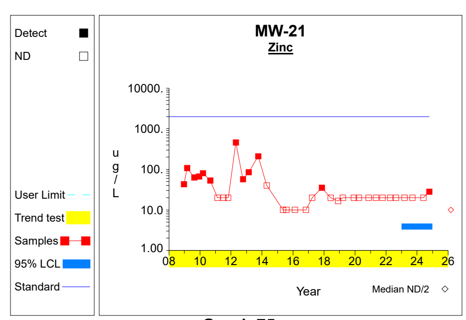
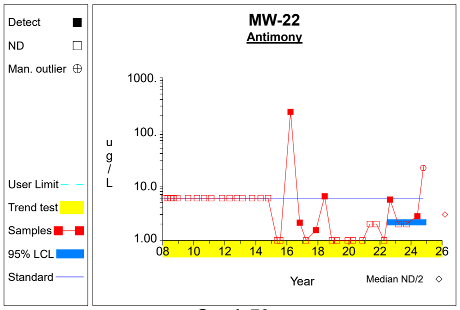


Graph 75

Confidence Limits (Assessment)



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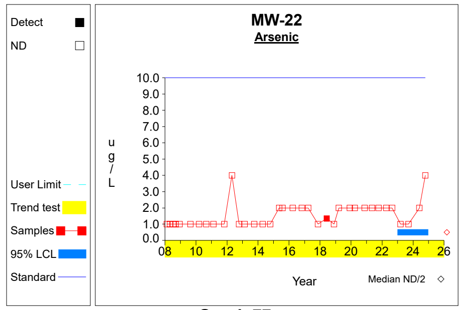
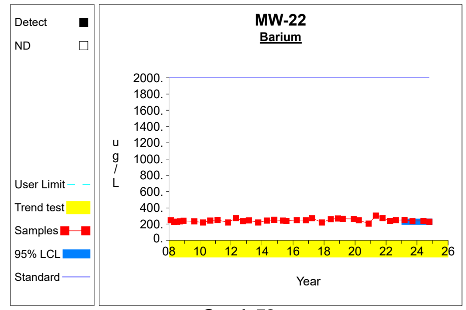
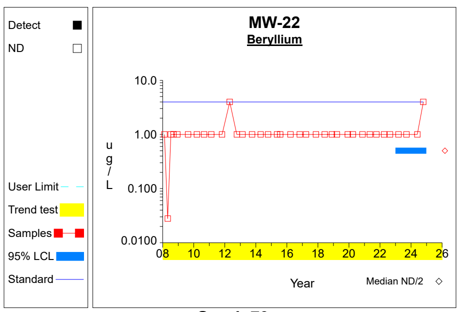


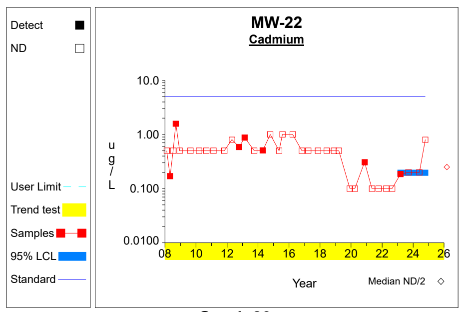
Graph 77



Graph 78



Graph 79



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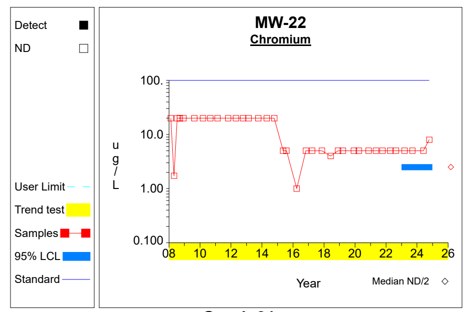

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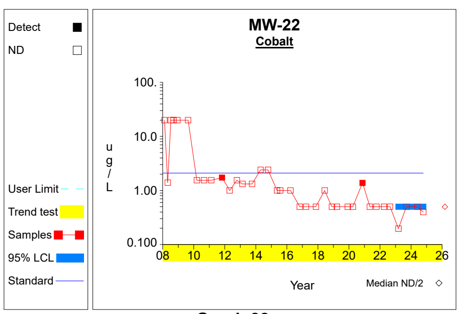
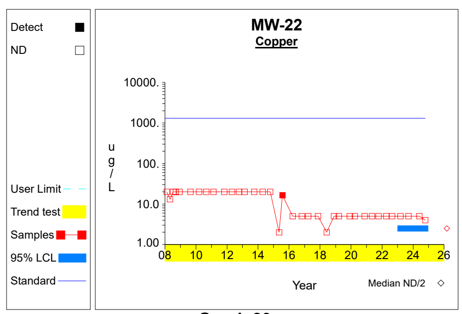


Graph 82



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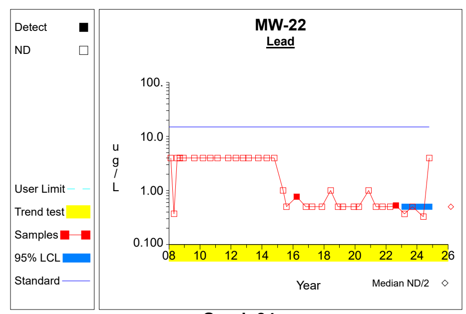

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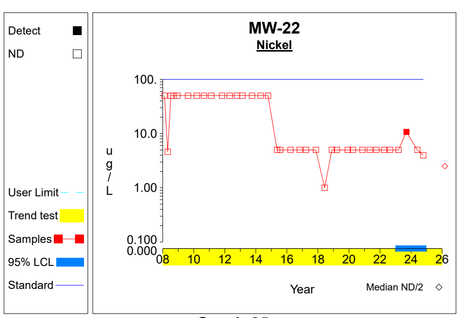

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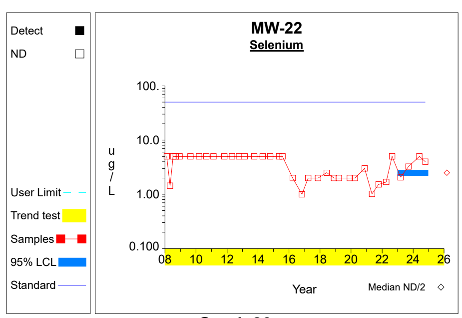

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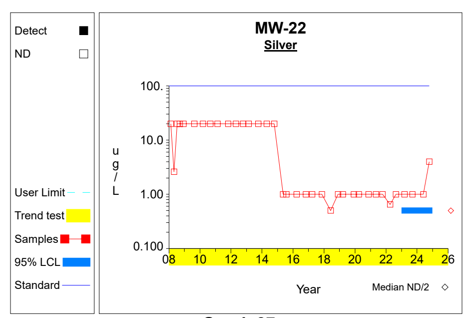
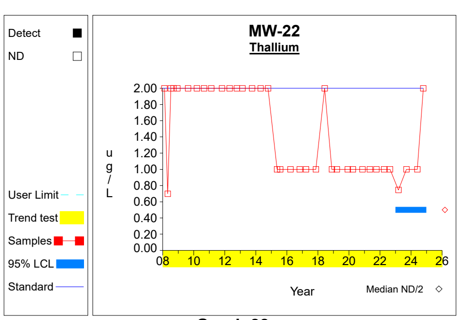


Graph 87



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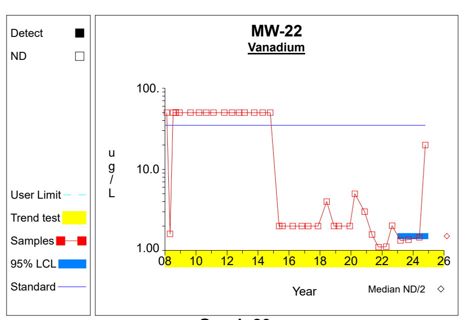
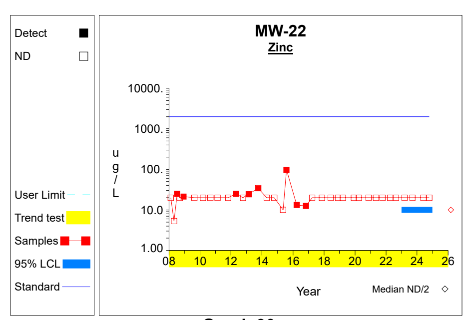
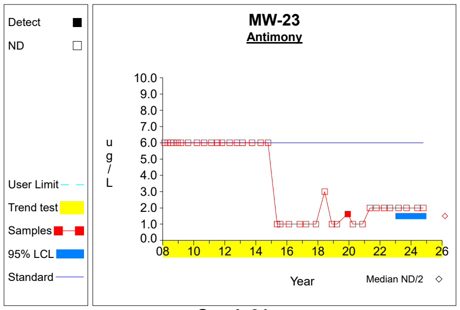


Graph 89

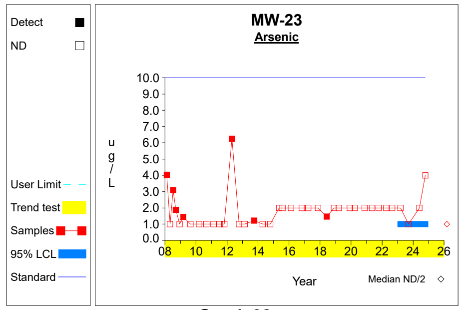


Graph 90

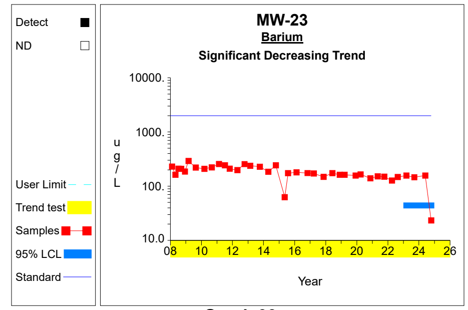
Confidence Limits (Assessment)



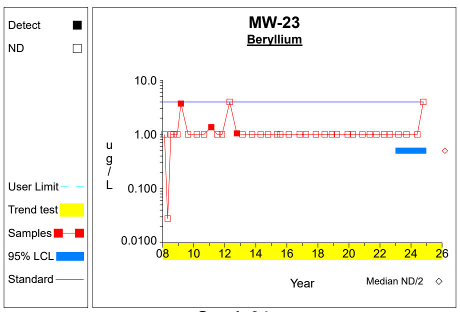
Graph 91



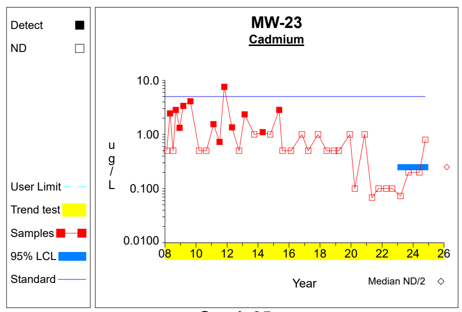
Graph 92



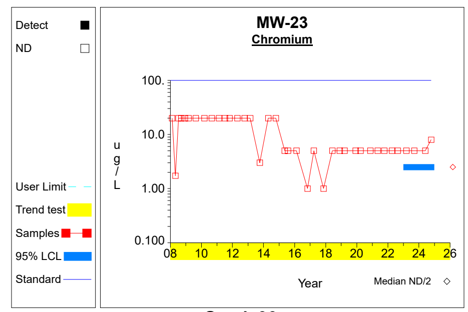
Graph 93



Graph 94



Graph 95



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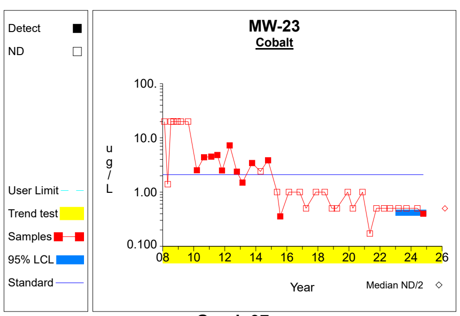

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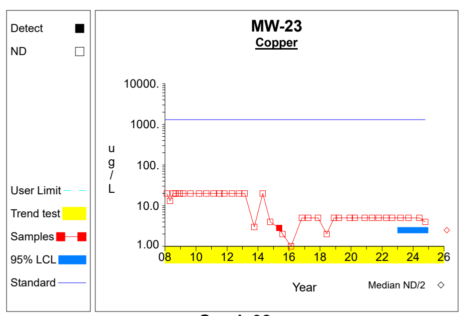

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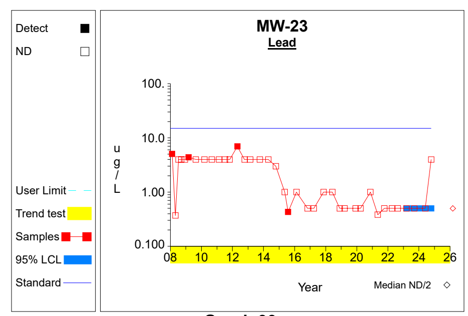
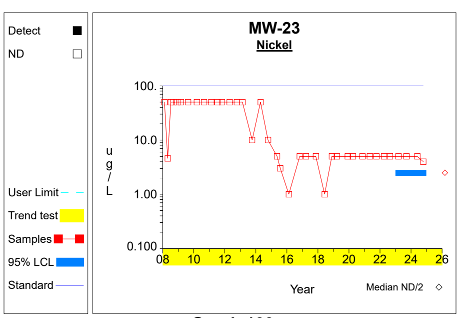
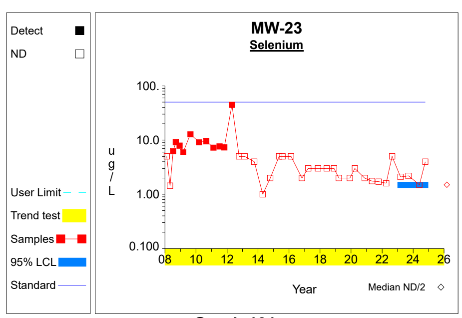


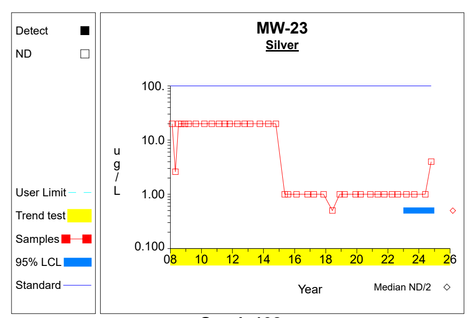
Graph 99



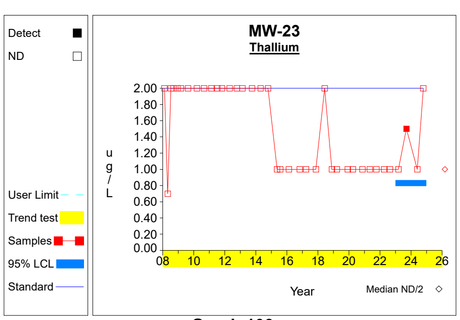
Graph 100



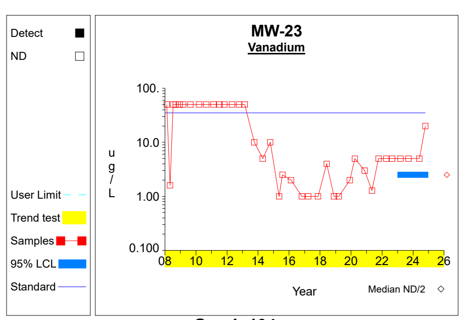
Graph 101



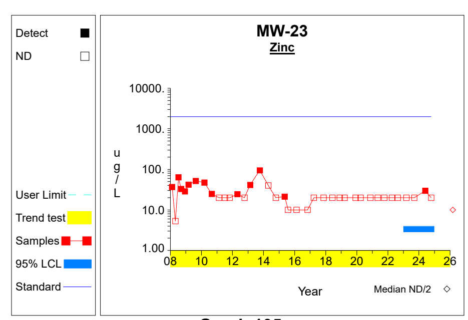
Graph 102



Graph 103



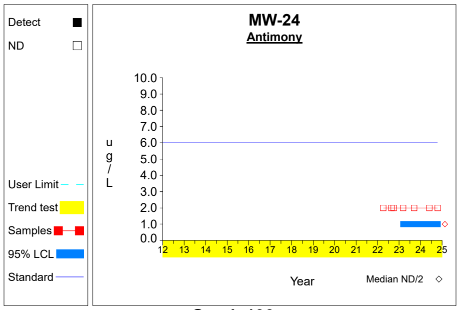
Graph 104



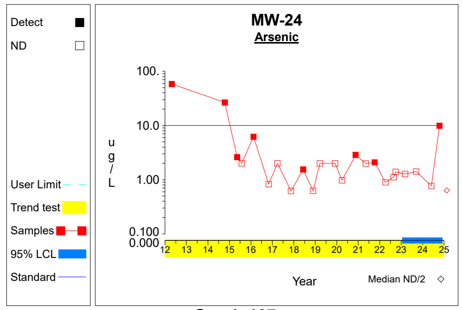
Graph 105

Prepared by: Otter Creek Environmental

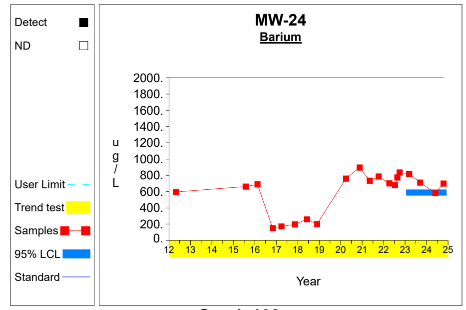
Confidence Limits (Assessment)



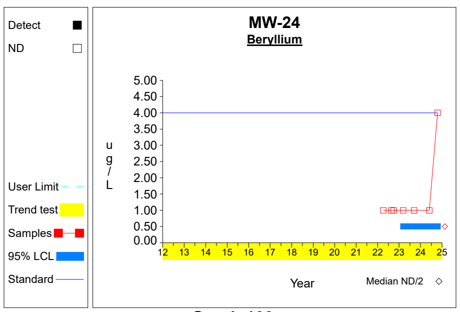
Graph 106



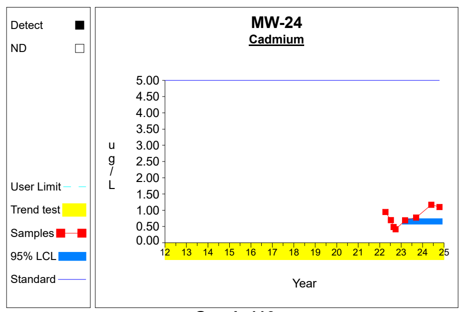
Graph 107



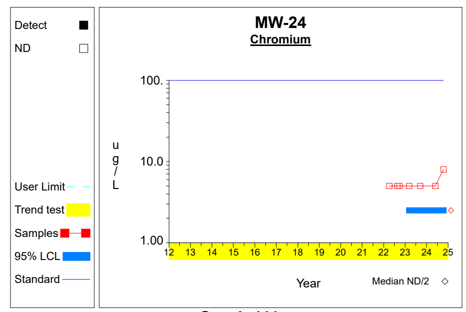
Graph 108



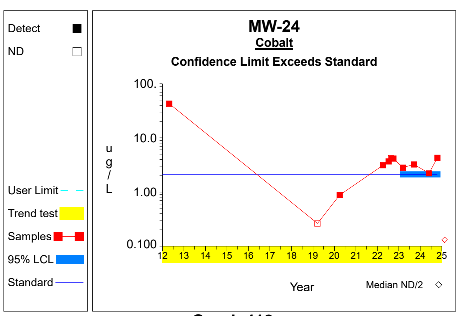
Graph 109



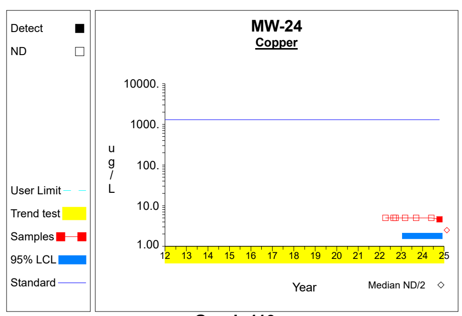
Graph 110



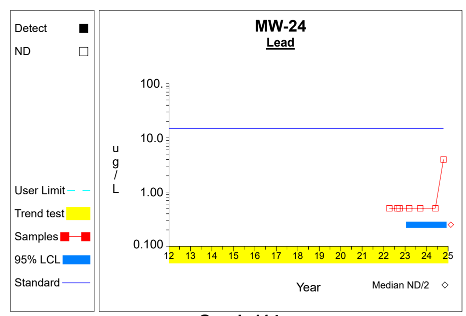
Graph 111



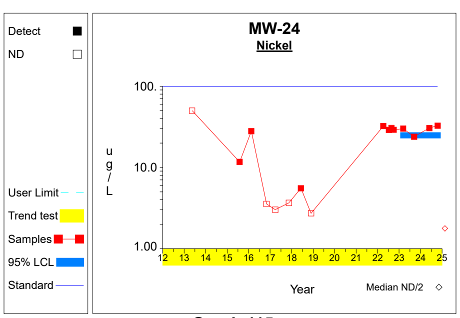
Graph 112



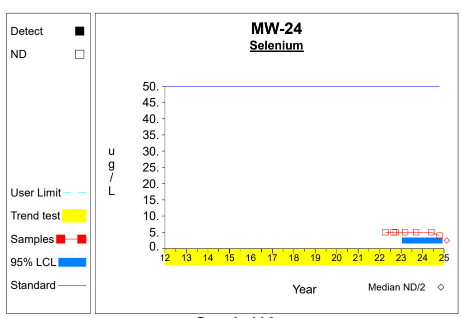
Graph 113



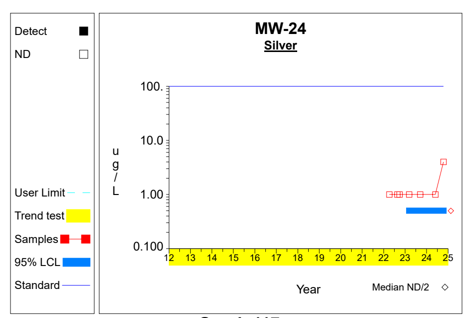
Graph 114



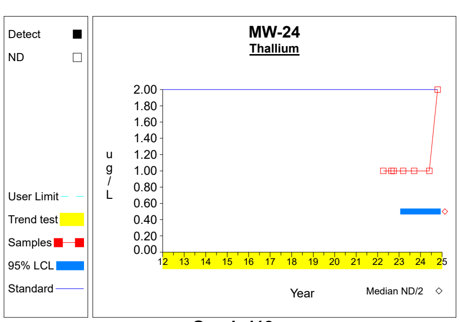
Graph 115



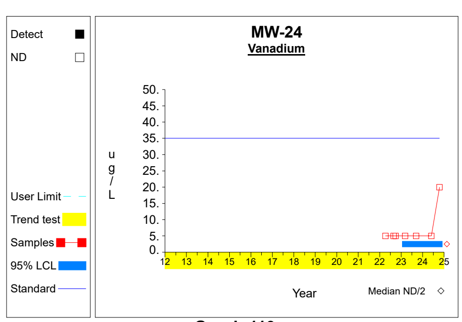
Graph 116



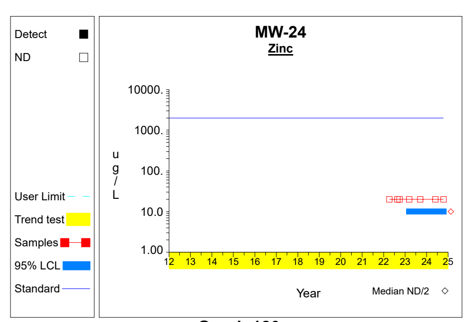
Graph 117



Graph 118

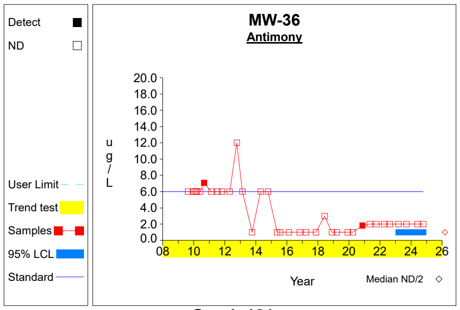


Graph 119

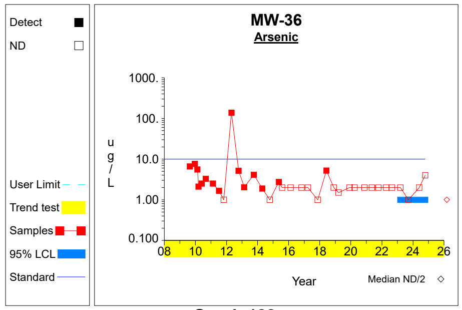


Graph 120

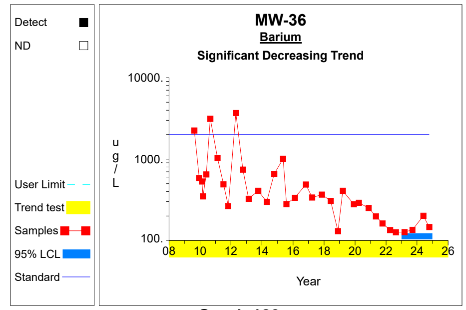
Confidence Limits (Assessment)



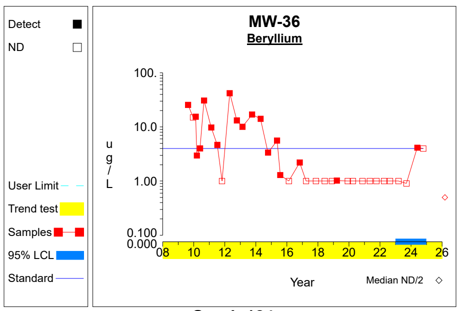
Graph 121



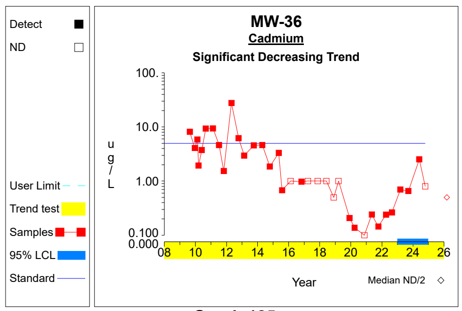
Graph 122



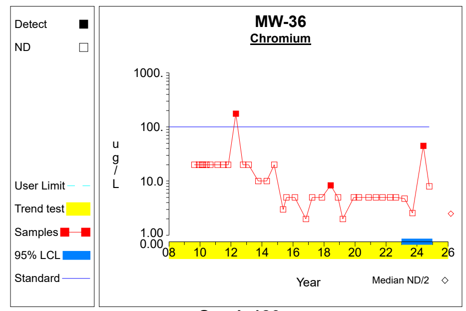
Graph 123



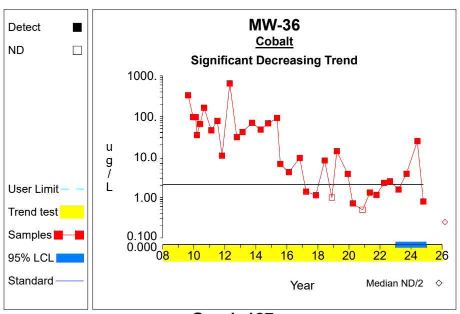
Graph 124



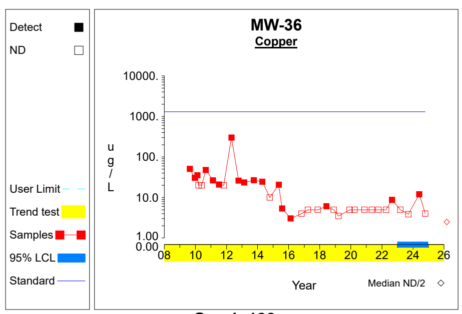
Graph 125



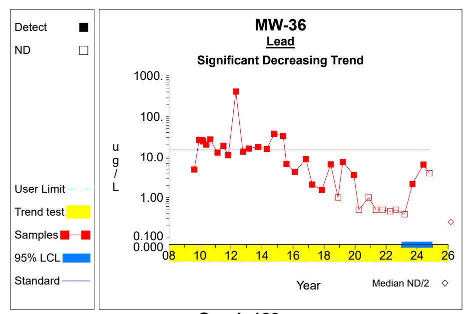
Graph 126



Graph 127



Graph 128



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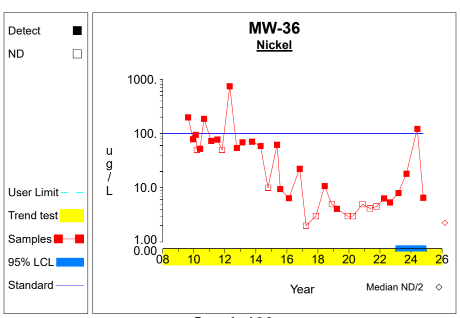
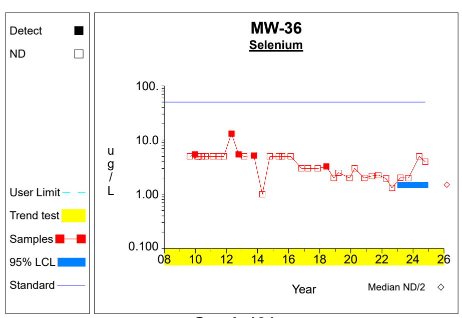


Graph 130



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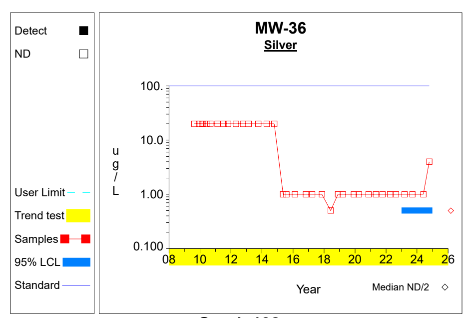

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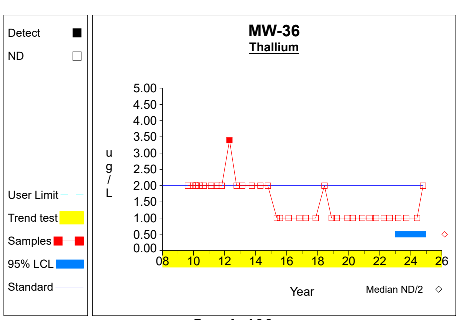
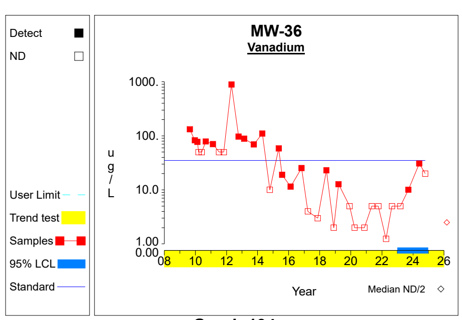
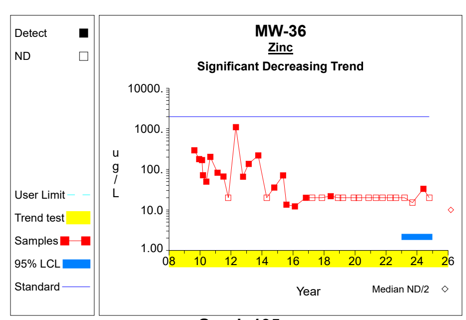


Graph 133

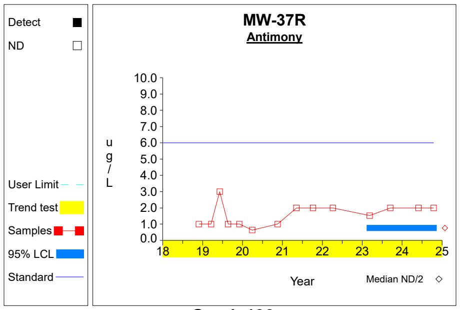


Graph 134

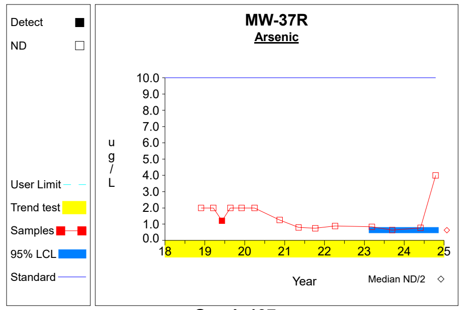


Graph 135

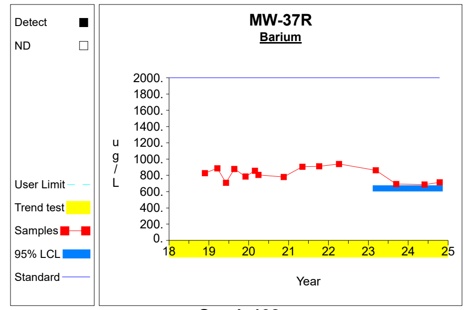
Confidence Limits (Assessment)



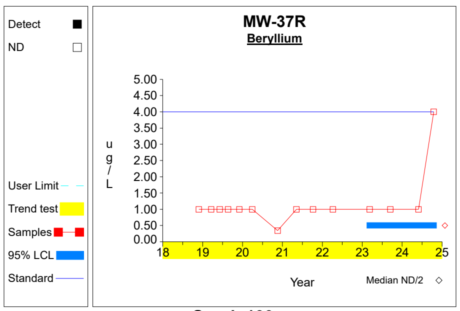
Graph 136



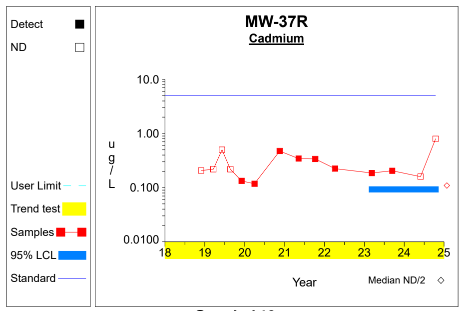
Graph 137



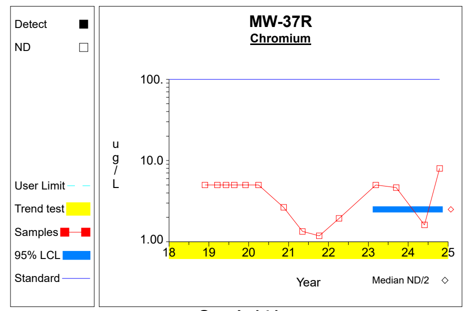
Graph 138



Graph 139



Graph 140



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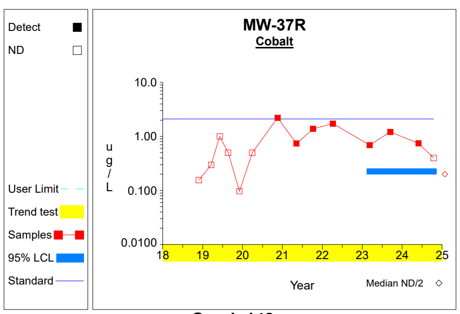
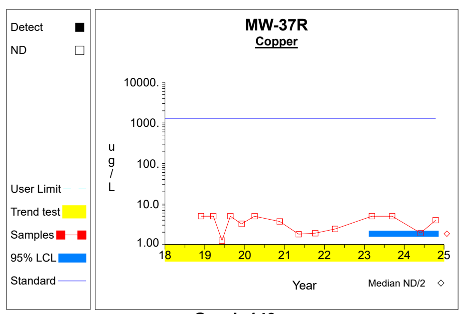
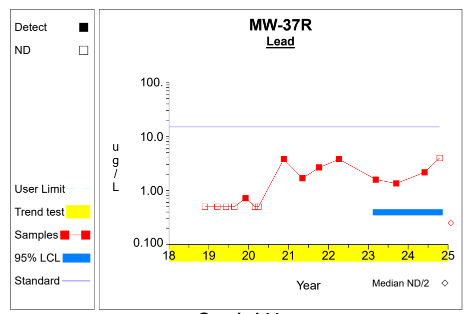


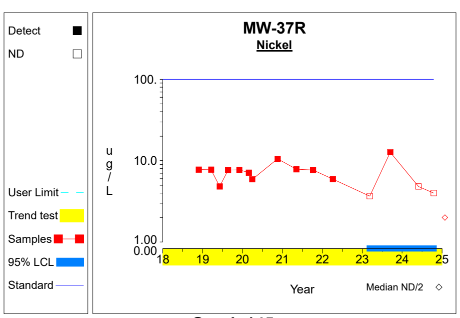
Graph 142



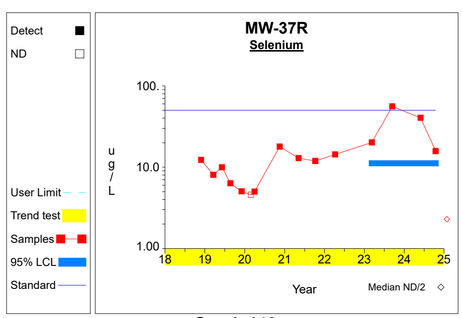
Graph 143



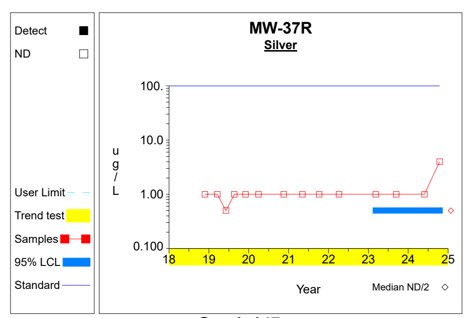
Graph 144



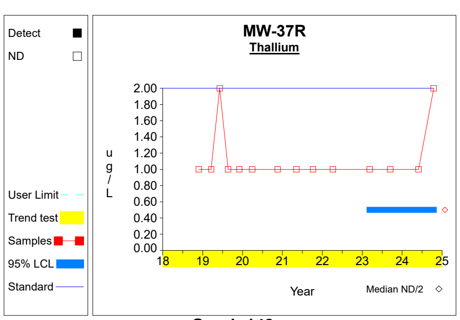
Graph 145



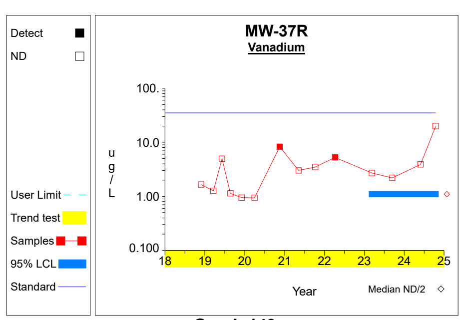
Graph 146



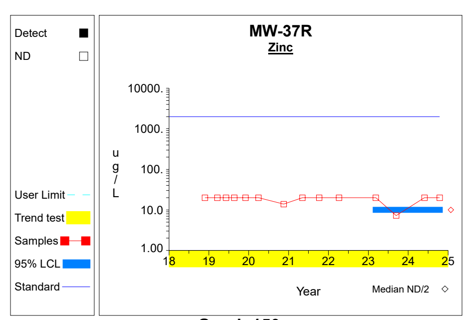
Graph 147



Graph 148

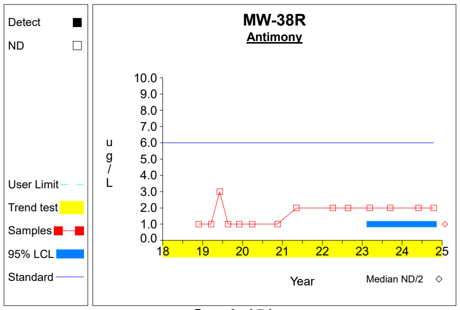


Graph 149

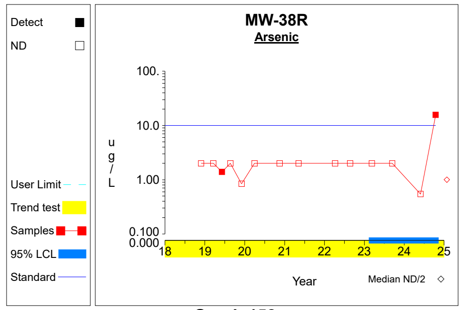


Graph 150

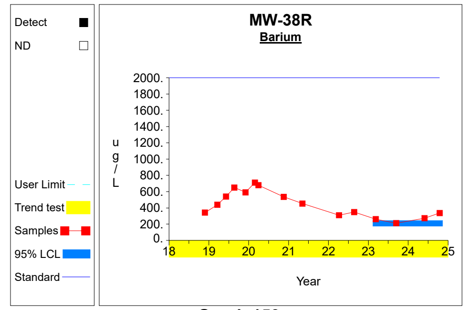
Confidence Limits (Assessment)



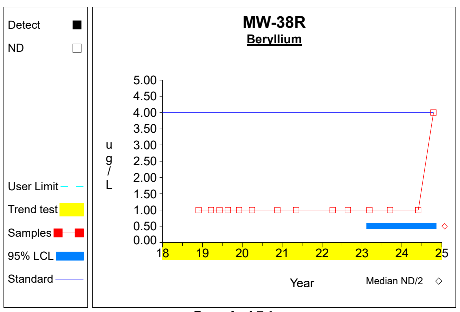
Graph 151



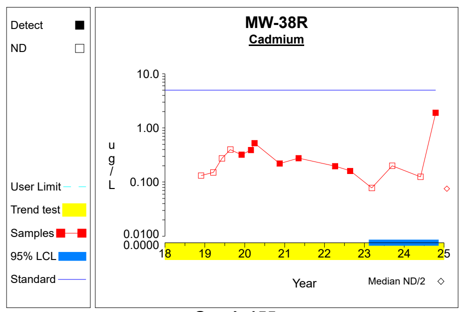
Graph 152



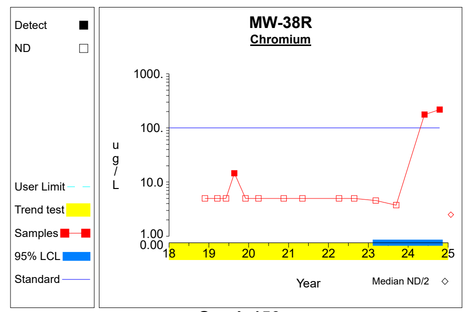
Graph 153



Graph 154



Graph 155



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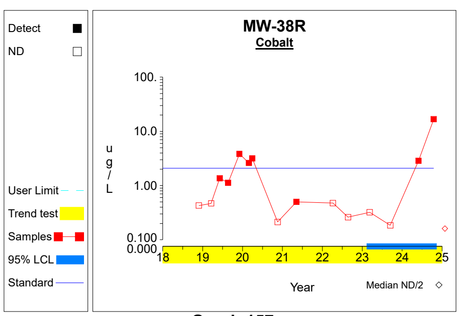
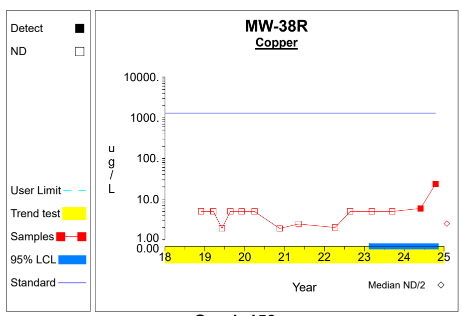


Graph 157



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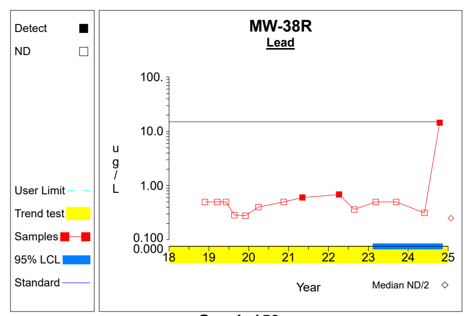
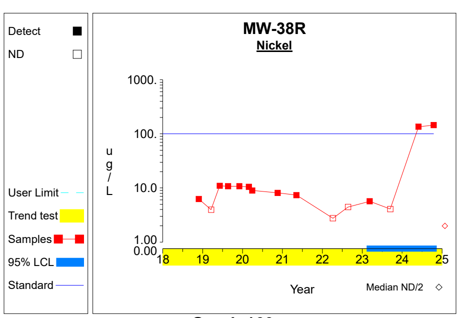
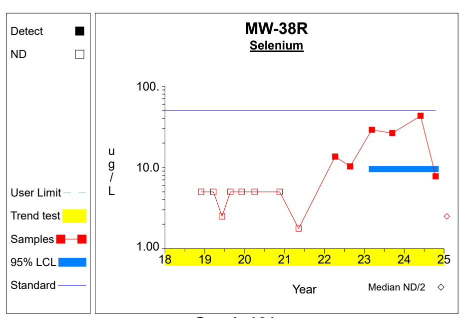


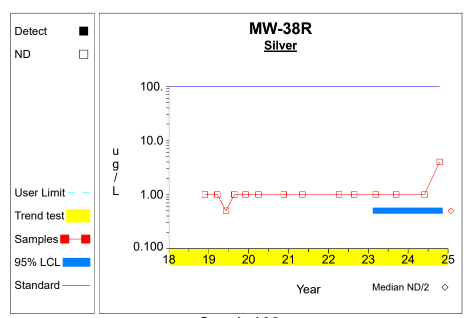
Graph 159



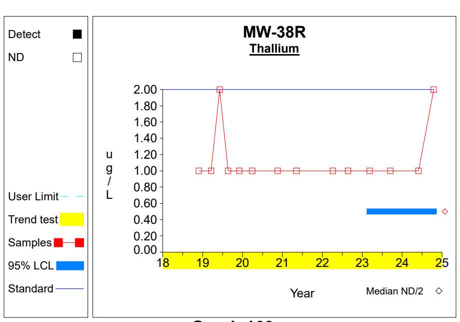
Graph 160



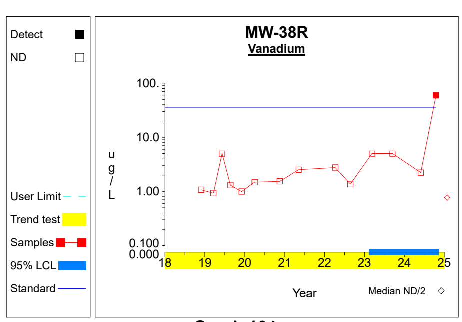
Graph 161



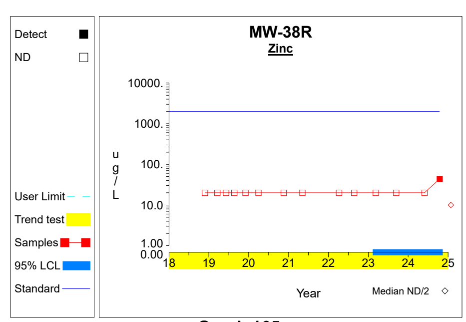
Graph 162



Graph 163

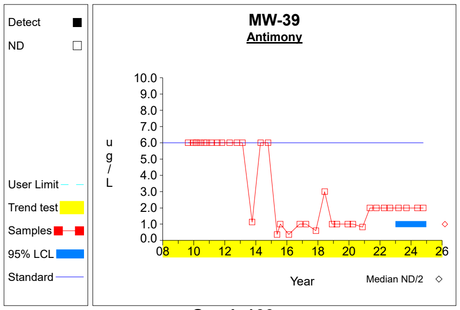


Graph 164

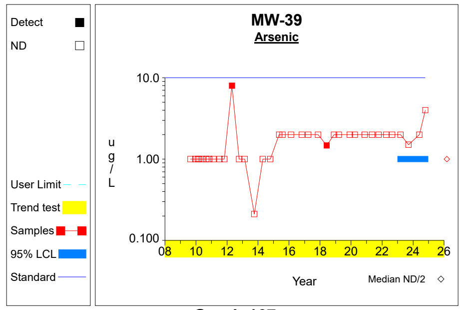


Graph 165

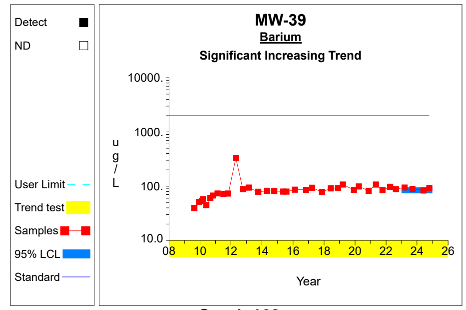
Confidence Limits (Assessment)



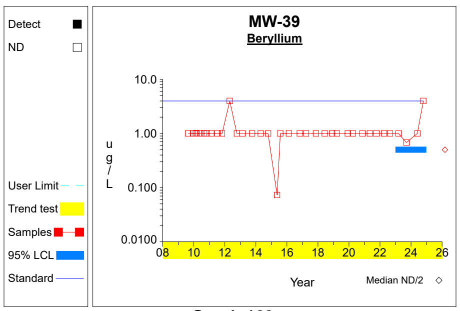
Graph 166



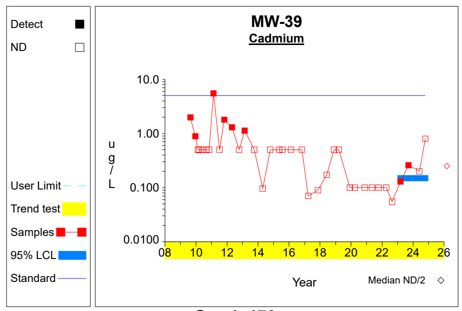
Graph 167



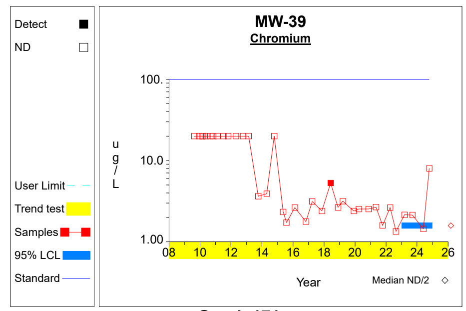
Graph 168



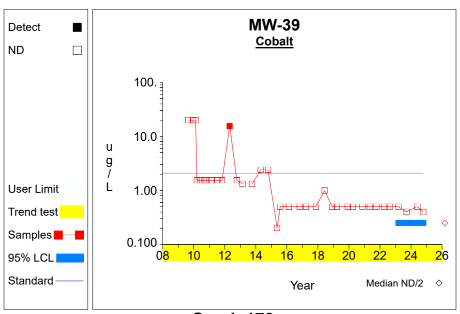
Graph 169



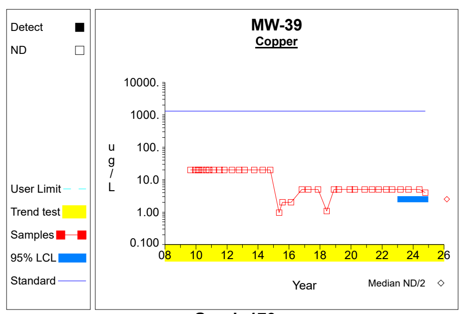
Graph 170



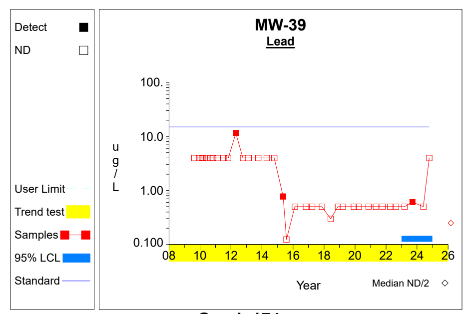
Graph 171



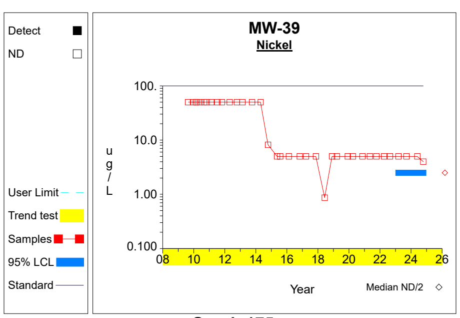
Graph 172



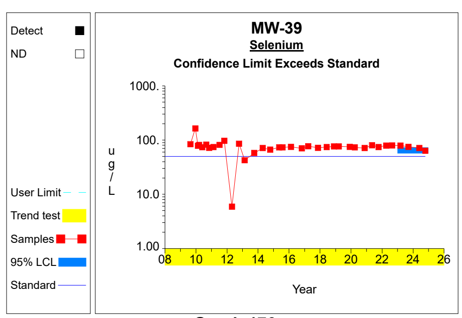
Graph 173



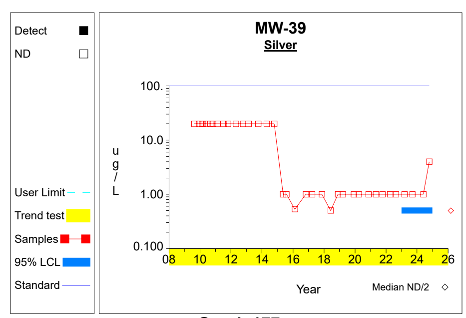
Graph 174



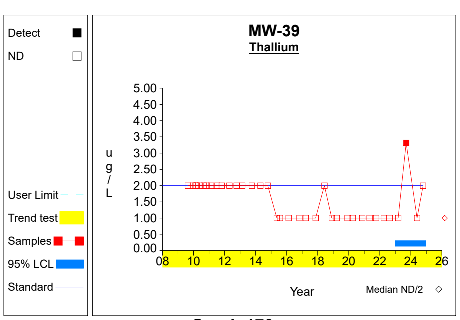
Graph 175



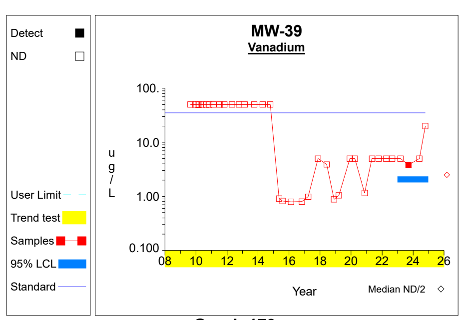
Graph 176



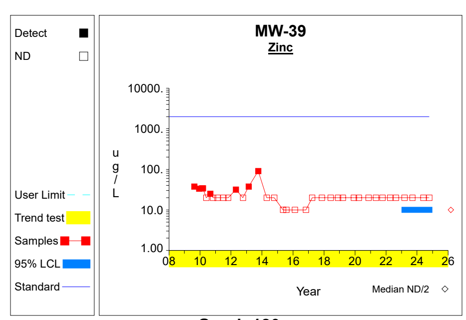
Graph 177



Graph 178



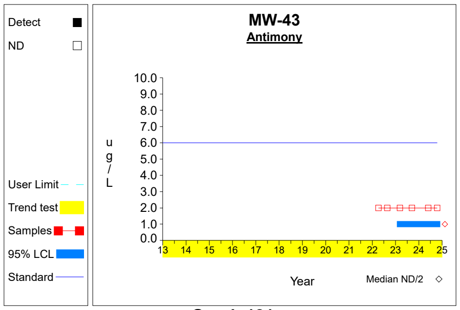
Graph 179



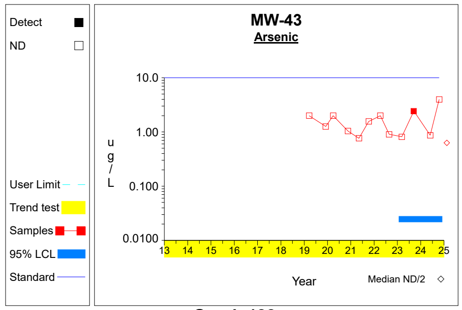
Graph 180

Cass County [GW] December 2024

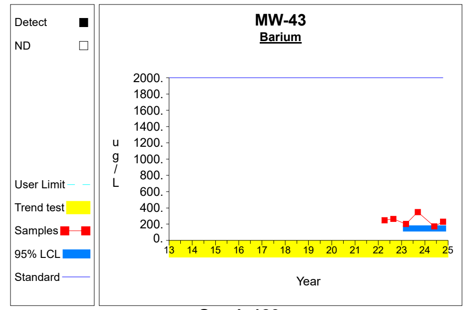
Confidence Limits (Assessment)



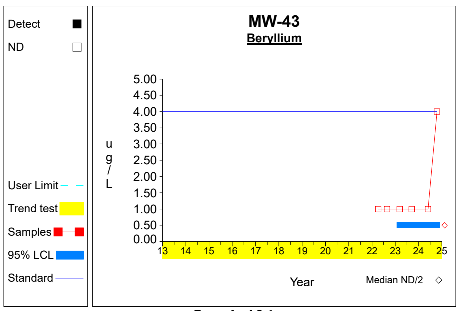
Graph 181



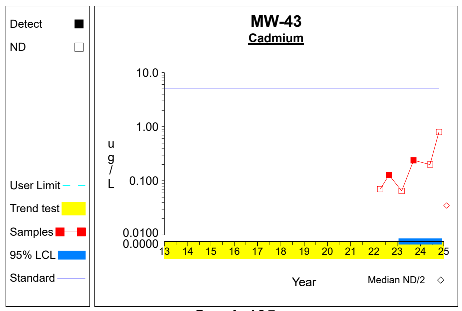
Graph 182



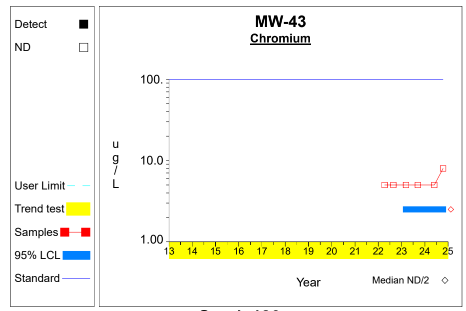
Graph 183



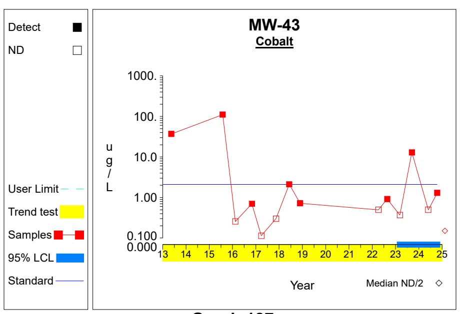
Graph 184



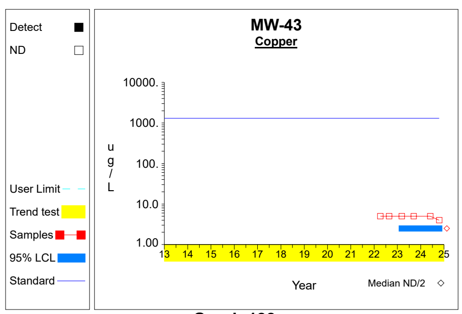
Graph 185



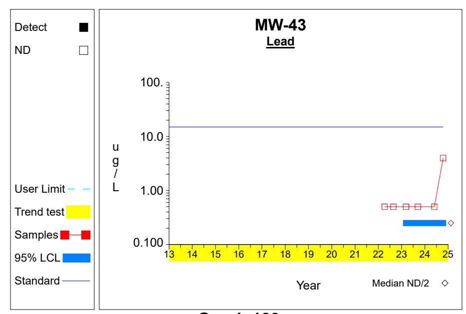
Graph 186



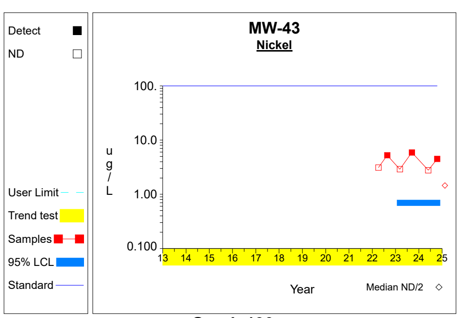
Graph 187



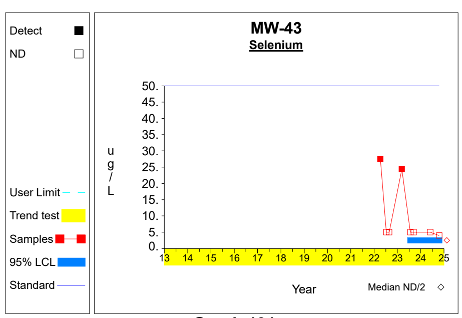
Graph 188



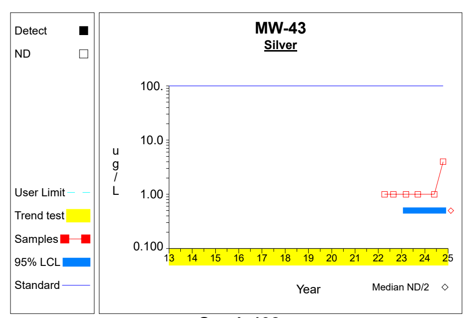
Graph 189



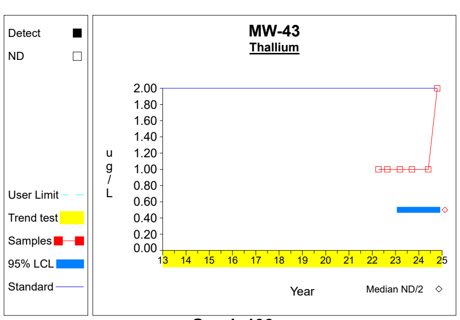
Graph 190



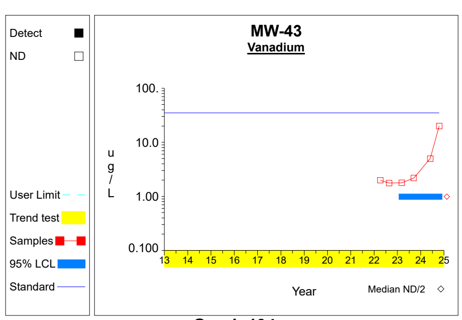
Graph 191



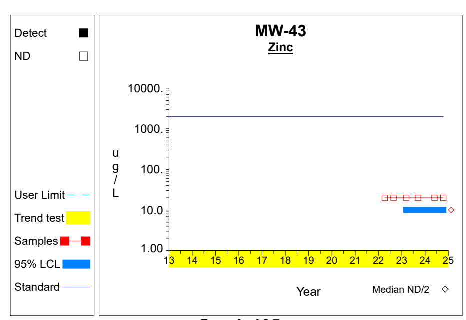
Graph 192



Graph 193



Graph 194



Graph 195

Prepared by: Otter Creek Environmental

Attachment F

Historical VOC Detections

Table 1

Historical Volatile Organic Compound Detections

Constituent	Well	Date	Identifier	Result	Limit	Units
Acetone	MW-11	5/12/2015		16.5	10.0	ug/L
Benzene	MW-11	2/11/2008		.290	.001	ug/L
Benzene	MW-11	4/30/2008		.180	.100	ug/L
Benzene	MW-11	7/09/2008		.340	.001	ug/L
Benzene	MW-11	3/03/2009		.830	.001	ug/L
Chlorobenzene	MW-11	2/11/2008		.380	.001	ug/L
Chlorobenzene	MW-11	4/30/2008		.210	.001	ug/L
Chlorodibromomethane	MW-11	2/11/2008		.300	.001	ug/L
cis-1,2-Dichloroethene	MW-11	2/11/2008		1.12	1.00	ug/L
cis-1,2-Dichloroethene	MW-11	7/09/2008		1.36	1.00	ug/L
cis-1,2-Dichloroethene	MW-11	12/10/2008		1.28	1.00	ug/L
cis-1,2-Dichloroethene	MW-11	3/03/2009		2.36	1.00	ug/L
cis-1,2-Dichloroethene	MW-11	10/03/2013		1.18	1.00	ug/L
cis-1,2-Dichloroethene	MW-11	10/03/2013		1.07	1.00	ug/L
cis-1,2-Dichloroethene	MW-11	4/22/2014		1.24	1.00	ug/L
cis-1,2-Dichloroethene	MW-11	11/13/2017		1.02	1.00	ug/L
Methylene Chloride	MW-11	7/09/2008		.50	.45	ug/L
Tetrachloroethene	MW-11	2/11/2008		.76	.38	ug/L
Vinyl Chloride	MW-11	2/11/2008		.390	.001	ug/L
Vinyl Chloride	MW-11	7/09/2008		.280	.001	ug/L
1,4-Dichlorobenzene	MW-12	12/10/2008		1.60	1.00	ug/L
1,4-Dichlorobenzene	MW-12	3/03/2009		1.38	1.00	ug/L
1,4-Dichlorobenzene	MW-12	8/21/2009		1.10	1.00	ug/L
1,4-Dichlorobenzene	MW-12	11/04/2009		1.01	1.00	ug/L
Acetone	MW-12	3/28/2016		14.7	10.0	ug/L
Benzene	MW-12	12/10/2008		1.00	1.00	ug/L
Benzene	MW-12	3/03/2009		.90	.10	ug/L
Benzene	MW-12	11/04/2009		.65	.10	ug/L
Benzene	MW-12	8/31/2010		.58	.10	ug/L
Bis[2-ethylhexyl]phthalate	MW-12	3/28/2016		13.9	1.0	ug/L
Bis[2-ethylhexyl]phthalate	MW-12	7/12/2017		15.6	1.0	ug/L
Chlorobenzene	MW-12	3/03/2009		1.25	1.00	ug/L
Chlorobenzene	MW-12	5/06/2021		1.01	1.00	ug/L
Chlorobenzene	MW-12	4/06/2022		1.26	1.00	ug/L
cis-1,2-Dichloroethene	MW-12	12/10/2008		3.62	1.00	ug/L
cis-1,2-Dichloroethene	MW-12	3/03/2009		2.79	1.00	ug/L
cis-1,2-Dichloroethene	MW-12	8/21/2009		1.57	1.00	ug/L
cis-1,2-Dichloroethene	MW-12	11/04/2009		1.48	1.00	ug/L
1,2-Dichloroethane	MW-15R	3/18/2019		1.44	1.00	ug/L
1,1-Dichloroethane	MW-19	7/07/2011		1.18	1.00	ug/L
1,1-Dichloroethane	MW-19	10/03/2013		1.05	1.00	ug/L
1,1-Dichloroethane	MW-19	4/22/2014		2.28	1.00	ug/L
1,1-Dichloroethane	MW-19	10/14/2014		1.26	1.00	ug/L
1,1-Dichloroethane	MW-19	5/12/2015		1.68	1.00	ug/L
1,1-Dichloroethane	MW-19	7/29/2015		1.18	1.00	ug/L
1,1-Dichloroethane	MW-19	2/15/2016		1.01	1.00	ug/L
1,1-Dichloroethane	MW-19	11/26/2018		1.04	1.00	ug/L
1,4-Dichlorobenzene	MW-19	7/07/2011		3.06	1.00	ug/L
4-Chloro-3-methylphenol	MW-19	7/07/2011		10.9	10.0	ug/L
Acetone	MW-19	9/11/2008		32.9	10.0	ug/L
Benzene	MW-19	7/07/2011		4.590	1.000	ug/L
Benzene	MW-19	2/20/2013		.987	.100	ug/L
Benzene	MW-19	10/03/2013		1.000	1.000	ug/L
Benzene	MW-19	4/22/2014		1.210	1.000	ug/L
Benzene	MW-19	10/14/2014		.996	.100	ug/L
Benzene	MW-19	5/12/2015		1.140	1.000	ug/L
Benzene	MW-19	7/29/2015		.821	.100	ug/L
Benzene	MW-19	2/15/2016		.640	.100	ug/L
Benzene	MW-19	11/13/2017		.704	.100	ug/L
Benzene	MW-19	11/26/2018		.750	.100	ug/L
Benzene	MW-19	11/26/2018		.553	.100	ug/L
Benzene	MW-19	11/17/2020		.557	.100	ug/L
Benzene	MW-19	5/06/2021		.824	.100	ug/L
Benzene	MW-19	10/07/2021		.856	.100	ug/L
Benzene	MW-19	4/06/2022		.930	.100	ug/L
Benzene	MW-19	8/23/2022		.588	.100	ug/L
Benzene	MW-19	3/08/2023		.912	.100	ug/L
Benzene	MW-19	9/13/2023		.733	.100	ug/L
Benzene	MW-19	5/29/2024		.624	.100	ug/L
Chlorobenzene	MW-19	7/07/2011		7.35	1.00	ug/L
Chlorobenzene	MW-19	5/06/2021		1.21	1.00	ug/L
Chlorobenzene	MW-19	10/07/2021		1.45	1.00	ug/L
Chlorobenzene	MW-19	4/06/2022		1.92	1.00	ug/L
Chlorobenzene	MW-19	3/08/2023		1.89	1.00	ug/L
Chlorobenzene	MW-19	3/08/2023		1.86	1.00	ug/L
Chlorobenzene	MW-19	9/13/2023		1.49	1.00	ug/L

Detections are shown for the constituents and sample points selected for the analysis
The Limit column refers to the laboratory reporting limit

Table 1

Historical Volatile Organic Compound Detections

Constituent	Well	Date	Identifier	Result	Limit	Units
Chlorobenzene	MW-19	5/29/2024		1.16	1.00	ug/L
Chlorobenzene	MW-19	10/15/2024		1.20	1.00	ug/L
Chlorodibromomethane	MW-19	2/11/2008		.32	.10	ug/L
Chloroethane	MW-19	2/11/2008		.79	.10	ug/L
Chloroethane	MW-19	4/30/2008		.54	.10	ug/L
Ethylbenzene	MW-19	7/07/2011		1.73	1.00	ug/L
gamma-Chlordane	MW-19	10/09/2012		.0633	.0100	ug/L
gamma-Chlordane	MW-19	10/03/2013		.1370	.1000	ug/L
gamma-Chlordane	MW-19	12/18/2013		.1240	.1000	ug/L
gamma-Chlordane	MW-19	4/22/2014		.1760	.1000	ug/L
gamma-Chlordane	MW-19	3/30/2020		.0634	.0100	ug/L
gamma-Chlordane	MW-19	5/06/2021		.1190	.1000	ug/L
Methylene Chloride	MW-19	7/09/2008		.48	.10	ug/L
Naphthalene	MW-19	7/07/2011		5.41	1.00	ug/L
Tetrachloroethene	MW-19	2/11/2008		.77	.10	ug/L
1,4-Dichlorobenzene	MW-20	10/03/2013		2.88	1.00	ug/L
1,4-Dichlorobenzene	MW-20	10/14/2014		1.92	1.00	ug/L
1,4-Dichlorobenzene	MW-20	7/29/2015		1.56	1.00	ug/L
1,4-Dichlorobenzene	MW-20	6/06/2018		2.11	1.00	ug/L
1,4-Dichlorobenzene	MW-20	6/06/2018		1.99	1.00	ug/L
1,4-Dichlorobenzene	MW-20	11/27/2018		1.98	1.00	ug/L
1,4-Dichlorobenzene	MW-20	3/30/2020		1.81	1.00	ug/L
1,4-Dichlorobenzene	MW-20	10/07/2021		2.37	1.00	ug/L
1,4-Dichlorobenzene	MW-20	4/06/2022		1.94	1.00	ug/L
1,4-Dichlorobenzene	MW-20	8/23/2022		1.79	1.00	ug/L
1,4-Dichlorobenzene	MW-20	3/08/2023		2.40	1.00	ug/L
1,4-Dichlorobenzene	MW-20	9/13/2023		2.48	1.00	ug/L
1,4-Dichlorobenzene	MW-20	5/29/2024		1.98	1.00	ug/L
1,4-Dichlorobenzene	MW-20	5/29/2024		1.87	1.00	ug/L
1,4-Dichlorobenzene	MW-20	10/15/2024		3.10	1.00	ug/L
4,4`-DDD	MW-20	8/31/2010		.0340	.0100	ug/L
4,4`-DDD	MW-20	10/09/2012		.0478	.0100	ug/L
4-Chloro-3-methylphenol	MW-20	8/31/2010		11	10	ug/L
Acetone	MW-20	3/11/2010		17.9	10.0	ug/L
Acetone	MW-20	2/16/2011		100.0	10.0	ug/L
Acetone	MW-20	2/20/2013		24.4	10.0	ug/L
Acetone	MW-20	5/12/2015		52.1	10.0	ug/L
Acetone	MW-20	6/06/2018		10.6	10.0	ug/L
Benzene	MW-20	12/10/2008		4.05	1.00	ug/L
Benzene	MW-20	3/03/2009		4.15	1.00	ug/L
Benzene	MW-20	8/21/2009		3.40	1.00	ug/L
Benzene	MW-20	10/21/2009		.92	.10	ug/L
Benzene	MW-20	3/11/2010		3.72	1.00	ug/L
Benzene	MW-20	8/31/2010		3.80	1.00	ug/L
Benzene	MW-20	2/16/2011		3.85	1.00	ug/L
Benzene	MW-20	10/27/2011		3.65	1.00	ug/L
Benzene	MW-20	4/26/2012		4.30	1.00	ug/L
Benzene	MW-20	10/09/2012		3.40	1.00	ug/L
Benzene	MW-20	2/20/2013		4.09	1.00	ug/L
Benzene	MW-20	10/03/2013		2.89	1.00	ug/L
Benzene	MW-20	10/14/2014		3.89	1.00	ug/L
Benzene	MW-20	5/12/2015		2.27	1.00	ug/L
Benzene	MW-20	7/29/2015		2.93	1.00	ug/L
Benzene	MW-20	10/31/2016		3.72	1.00	ug/L
Benzene	MW-20	3/27/2017		2.62	1.00	ug/L
Benzene	MW-20	6/06/2018		2.86	1.00	ug/L
Benzene	MW-20	6/06/2018		2.90	1.00	ug/L
Benzene	MW-20	11/27/2018		3.06	1.00	ug/L
Benzene	MW-20	3/18/2019		3.04	1.00	ug/L
Benzene	MW-20	12/02/2019		3.24	1.00	ug/L
Benzene	MW-20	3/30/2020		2.00	1.00	ug/L
Benzene	MW-20	5/06/2021		2.04	1.00	ug/L
Benzene	MW-20	10/07/2021		2.68	1.00	ug/L
Benzene	MW-20	10/07/2021		2.74	1.00	ug/L
Benzene	MW-20	4/06/2022		2.90	1.00	ug/L
Benzene	MW-20	8/23/2022		2.91	1.00	ug/L
Benzene	MW-20	3/08/2023		3.14	1.00	ug/L
Benzene	MW-20	9/13/2023		2.93	1.00	ug/L
Benzene	MW-20	5/29/2024		1.84	1.00	ug/L
Benzene	MW-20	5/29/2024		2.18	1.00	ug/L
Benzene	MW-20	10/15/2024		3.00	1.00	ug/L
Chlorobenzene	MW-20	3/03/2009		6.20	1.00	ug/L
Chlorobenzene	MW-20	8/21/2009		5.00	1.00	ug/L
Chlorobenzene	MW-20	3/11/2010		5.81	1.00	ug/L
Chlorobenzene	MW-20	8/31/2010		6.85	1.00	ug/L
Chlorobenzene	MW-20	2/16/2011		7.25	1.00	ug/L

Detections are shown for the constituents and sample points selected for the analysis
The Limit column refers to the laboratory reporting limit

Table 1

Historical Volatile Organic Compound Detections

Constituent	Well	Date	Identifier	Result	Limit	Units
Chlorobenzene	MW-20	10/27/2011		7.55	1.00	ug/L
Chlorobenzene	MW-20	4/26/2012		6.90	1.00	ug/L
Chlorobenzene	MW-20	10/09/2012		7.05	1.00	ug/L
Chlorobenzene	MW-20	2/20/2013		7.78	1.00	ug/L
Chlorobenzene	MW-20	10/03/2013		5.57	1.00	ug/L
Chlorobenzene	MW-20	10/14/2014		4.54	1.00	ug/L
Chlorobenzene	MW-20	5/12/2015		1.88	1.00	ug/L
Chlorobenzene	MW-20	7/29/2015		2.83	1.00	ug/L
Chlorobenzene	MW-20	10/31/2016		4.59	1.00	ug/L
Chlorobenzene	MW-20	3/27/2017		2.88	1.00	ug/L
Chlorobenzene	MW-20	6/06/2018		3.43	1.00	ug/L
Chlorobenzene	MW-20	6/06/2018		3.54	1.00	ug/L
Chlorobenzene	MW-20	11/27/2018		3.36	1.00	ug/L
Chlorobenzene	MW-20	3/18/2019		3.67	1.00	ug/L
Chlorobenzene	MW-20	12/02/2019		3.80	1.00	ug/L
Chlorobenzene	MW-20	3/30/2020		2.69	1.00	ug/L
Chlorobenzene	MW-20	5/06/2021		2.29	1.00	ug/L
Chlorobenzene	MW-20	10/07/2021		3.36	1.00	ug/L
Chlorobenzene	MW-20	10/07/2021		3.60	1.00	ug/L
Chlorobenzene	MW-20	4/06/2022		3.27	1.00	ug/L
Chlorobenzene	MW-20	8/23/2022		3.29	1.00	ug/L
Chlorobenzene	MW-20	3/08/2023		4.44	1.00	ug/L
Chlorobenzene	MW-20	9/13/2023		4.34	1.00	ug/L
Chlorobenzene	MW-20	5/29/2024		2.64	1.00	ug/L
Chlorobenzene	MW-20	5/29/2024		2.87	1.00	ug/L
Chlorobenzene	MW-20	10/15/2024		4.70	1.00	ug/L
Chloroethane	MW-20	3/11/2010		4.13	1.00	ug/L
Endosulfan I	MW-20	8/31/2010		.0729	.0100	ug/L
Endosulfan I	MW-20	10/27/2011		.1080	.1000	ug/L
Endosulfan I	MW-20	10/09/2012		.0449	.0100	ug/L
Endosulfan I	MW-20	10/03/2013		.0632	.0100	ug/L
Endosulfan I	MW-20	4/22/2014		.0707	.0100	ug/L
Endosulfan I	MW-20	10/14/2014		.0387	.0100	ug/L
Endosulfan I	MW-20	2/15/2016		.0614	.0100	ug/L
Endosulfan I	MW-20	10/31/2016		.0538	.0100	ug/L
Endosulfan I	MW-20	11/13/2017		.0696	.0100	ug/L
Endosulfan I	MW-20	12/02/2019		.0370	.0100	ug/L
Endosulfan I	MW-20	5/06/2021		.0472	.0100	ug/L
Endosulfan I	MW-20	10/07/2021		.0435	.0100	ug/L
Endosulfan I	MW-20	3/08/2023		.1120	.1000	ug/L
Endosulfan I	MW-20	10/15/2024		.1300	.0500	ug/L
Endosulfan sulfate	MW-20	2/15/2016		.0451	.0100	ug/L
Endosulfan sulfate	MW-20	7/12/2017		.0623	.0100	ug/L
Ethylbenzene	MW-20	3/11/2010		1.44	1.00	ug/L
Heptachlor	MW-20	2/15/2016		.162	.100	ug/L
Toluene	MW-20	10/31/2016		1.52	1.00	ug/L
Toluene	MW-20	6/06/2018		1.54	1.00	ug/L
Toluene	MW-20	6/06/2018		1.50	1.00	ug/L
Toluene	MW-20	3/18/2019		1.11	1.00	ug/L
Toluene	MW-20	12/02/2019		1.81	1.00	ug/L
Acetone	MW-21	10/27/2011		10.2	10.0	ug/L
Acetone	MW-21	12/02/2019		12.2	10.0	ug/L
Carbon Disulfide	MW-21	10/09/2012		1.52	1.00	ug/L
Carbon Disulfide	MW-21	8/23/2022		4.13	1.00	ug/L
Phenol	MW-21	10/09/2012		62.5	1.0	ug/L
Phenol	MW-21	10/03/2013		34.7	1.0	ug/L
Toluene	MW-21	10/03/2013		24.3	1.0	ug/L
Toluene	MW-21	3/18/2019		23.3	1.0	ug/L
Toluene	MW-21	12/02/2019		173.0	1.0	ug/L
Toluene	MW-21	3/30/2020		329.0	1.0	ug/L
Toluene	MW-21	3/30/2020		274.0	1.0	ug/L
Methylene Chloride	MW-22	7/09/2008		.80	.45	ug/L
Tetrachloroethene	MW-22	2/11/2008		.58	.38	ug/L
Bromomethane	MW-23	10/03/2013		4.02	1.00	ug/L
Carbon Tetrachloride	MW-23	4/30/2008		.370	.001	ug/L
Tetrachloroethene	MW-23	2/11/2008		.52	.38	ug/L
Chlorobenzene	MW-24	8/23/2022		1.04	1.00	ug/L
PCB-1260	MW-36	10/09/2012		.965	.001	ug/L
Toluene	MW-37R	11/17/2020		1.21	1.00	ug/L
Xylenes, total	MW-37R	11/17/2020		5.25	1.00	ug/L
Toluene	MW-38R	11/17/2020		2.12	1.00	ug/L
Xylenes, total	MW-38R	11/17/2020		10.2	1.0	ug/L

Detections are shown for the constituents and sample points selected for the analysis
The Limit column refers to the laboratory reporting limit

Attachment G

Summary Tables and Graphs for the LCL Comparisons – VOCs

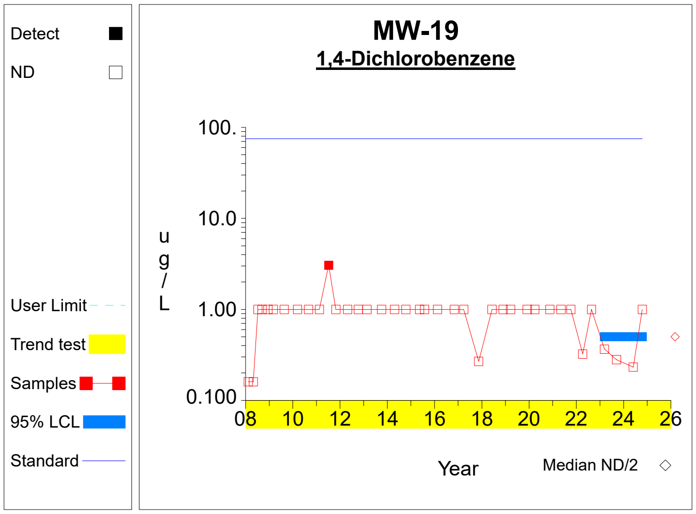
Table 1

Confidence Intervals for Comparing the Mean of the Last 4 Measurements to an Assessment Monitoring Standard

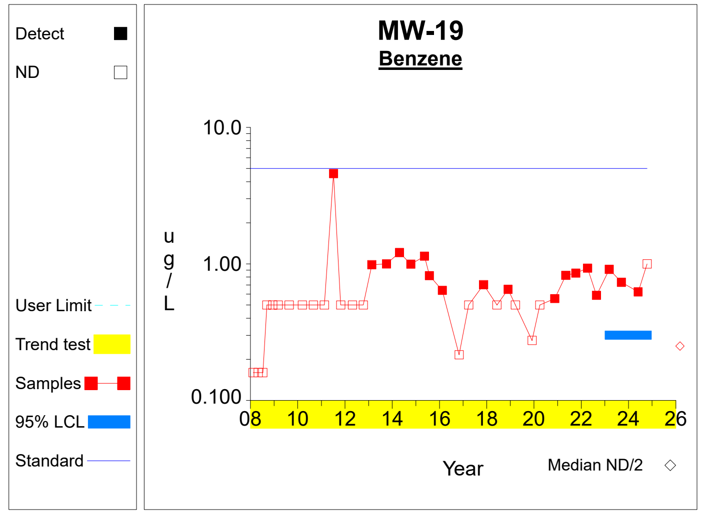
Constituent	Units	Well	N	Mean	SD	Factor	95% LCL	95% UCL	Standard	Trend
1,4-Dichlorobenzene	ug/L	MW-19	4	0.500	0.000	1.176	0.500	0.500	75.000	
Benzene	ug/L	MW-19	4	0.630	0.280	1.176	0.301	0.959	5.000	
Chlorobenzene	ug/L	MW-19	4	1.431	0.330	1.176	1.043	1.820	100.000	
1,4-Dichlorobenzene	ug/L	MW-20	4	2.476	0.483	1.176	1.909	3.044	75.000	
Benzene	ug/L	MW-20	4	2.770	0.514	1.176	2.165	3.375	5.000	
Chlorobenzene	ug/L	MW-20	4	4.059	0.882	1.176	3.021	5.097	100.000	

* - Insufficient Data
** - Significant Exceedance
LCL = Lower Confidence Limit
UCL = Upper Confidence Limit

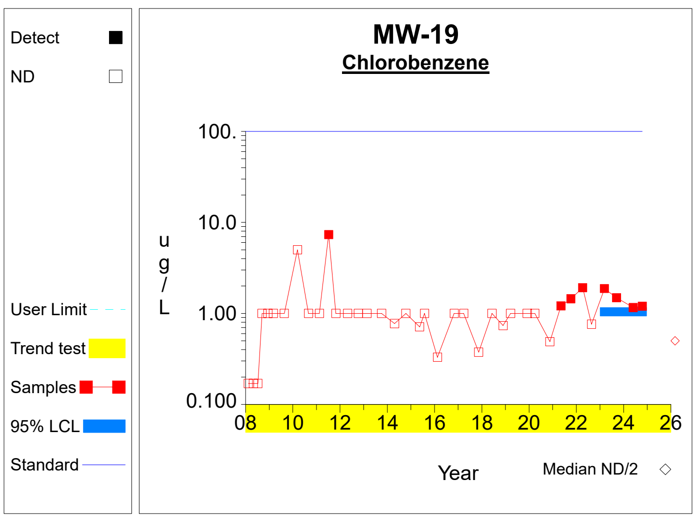
Confidence Limits (Assessment)



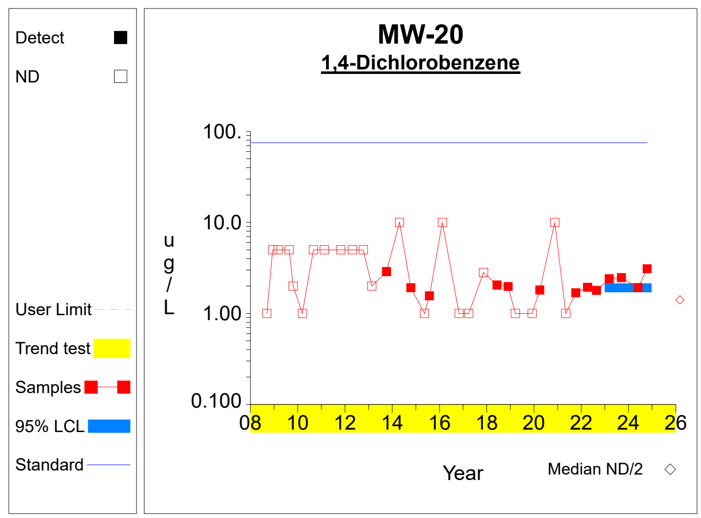
Graph 1



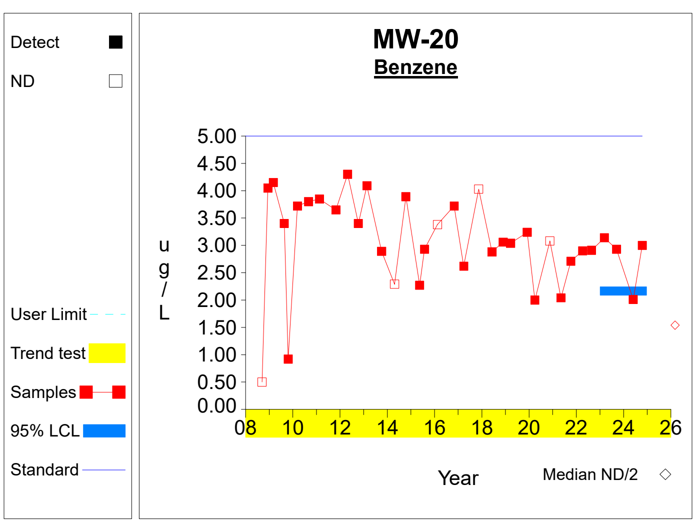
Graph 2



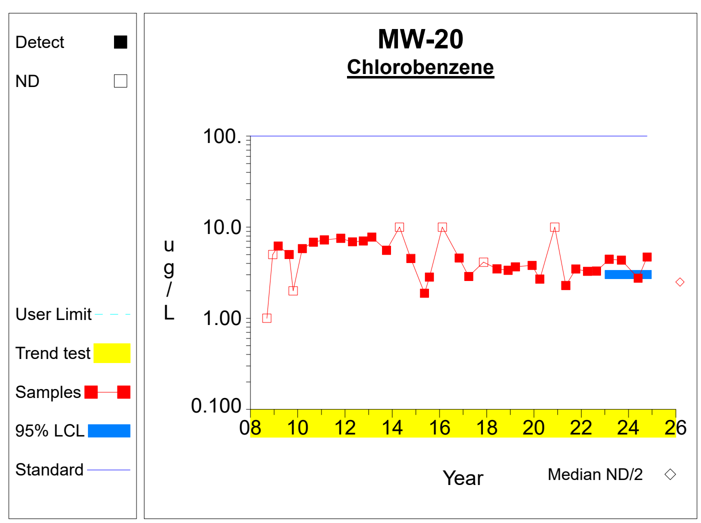
Graph 3



Graph 4



Graph 5



Graph 6

Table 1

Confidence Intervals for Comparing the Mean of the Last 4 Measurements to an Assessment Monitoring Standard

Constituent	Units	Well	N	Mean	SD	Factor	95% LCL	95% UCL	Standard	Trend	
Antimony	ug/L	MW-11	4	1.500	0.000	1.176	1.500	1.500	6.000		
Arsenic	ug/L	MW-11	4	9.943	4.739	1.176	4.368	15.517	10.000		
Barium	ug/L	MW-11	4	555.750	173.033	1.176	352.214	759.286	2000.000		
Beryllium	ug/L	MW-11	4	0.500	0.000	1.176	0.500	0.500	4.000		
Cadmium	ug/L	MW-11	4	0.243	0.020	1.176	0.219	0.267	5.000	dec	
Chromium	ug/L	MW-11	4	2.500	0.000	1.176	2.500	2.500	100.000		
Cobalt	ug/L	MW-11	4	8.583	4.675	1.176	3.083	14.082	2.100		**
Copper	ug/L	MW-11	4	4.300	3.600	1.176	0.065	8.535	1300.000		
Lead	ug/L	MW-11	4	0.531	0.042	1.176	0.481	0.580	15.000		
Nickel	ug/L	MW-11	4	11.008	6.615	1.176	3.226	18.789	100.000	dec	
Selenium	ug/L	MW-11	4	2.500	0.000	1.176	2.500	2.500	50.000		
Silver	ug/L	MW-11	4	1.256	0.098	1.176	1.142	1.371	100.000		
Thallium	ug/L	MW-11	4	2.778	3.410	1.176	0.000	6.789	2.000		
Vanadium	ug/L	MW-11	4	2.500	0.000	1.176	2.500	2.500	35.000		
Zinc	ug/L	MW-11	4	14.600	9.200	1.176	3.778	25.422	2000.000		
Antimony	ug/L	MW-12	4	1.000	0.000	1.176	1.000	1.000	6.000		
Arsenic	ug/L	MW-12	4	35.450	5.361	1.176	29.144	41.756	10.000	inc	**
Barium	ug/L	MW-12	4	1393.250	312.893	1.176	1025.197	1761.303	2000.000		
Beryllium	ug/L	MW-12	4	0.500	0.000	1.176	0.500	0.500	4.000		
Cadmium	ug/L	MW-12	4	0.050	0.000	1.176	0.050	0.050	5.000		
Chromium	ug/L	MW-12	4	2.500	0.000	1.176	2.500	2.500	100.000		
Cobalt	ug/L	MW-12	4	56.200	10.973	1.176	43.293	69.107	2.100		**
Copper	ug/L	MW-12	4	2.500	0.000	1.176	2.500	2.500	1300.000		
Lead	ug/L	MW-12	4	0.242	0.000	1.176	0.242	0.242	15.000		
Nickel	ug/L	MW-12	4	67.500	22.284	1.176	41.288	93.712	100.000		
Selenium	ug/L	MW-12	4	2.500	0.000	1.176	2.500	2.500	50.000		
Silver	ug/L	MW-12	4	0.500	0.000	1.176	0.500	0.500	100.000		
Thallium	ug/L	MW-12	4	0.500	0.000	1.176	0.500	0.500	2.000		
Vanadium	ug/L	MW-12	4	2.500	0.000	1.176	2.500	2.500	35.000		
Zinc	ug/L	MW-12	4	10.000	0.000	1.176	10.000	10.000	2000.000		
Antimony	ug/L	MW-13	1								*
Arsenic	ug/L	MW-13	1								*
Barium	ug/L	MW-13	1								*
Beryllium	ug/L	MW-13	1								*
Cadmium	ug/L	MW-13	1								*
Chromium	ug/L	MW-13	1								*
Cobalt	ug/L	MW-13	1								*
Copper	ug/L	MW-13	1								*
Lead	ug/L	MW-13	1								*
Nickel	ug/L	MW-13	1								*
Selenium	ug/L	MW-13	1								*
Silver	ug/L	MW-13	1								*
Thallium	ug/L	MW-13	1								*
Vanadium	ug/L	MW-13	1								*
Zinc	ug/L	MW-13	1								*
Antimony	ug/L	MW-15R	4	1.000	0.000	1.176	1.000	1.000	6.000		
Arsenic	ug/L	MW-15R	4	4.808	4.974	1.176	0.000	10.658	10.000		
Barium	ug/L	MW-15R	4	324.500	49.116	1.176	266.726	382.274	2000.000	inc	
Beryllium	ug/L	MW-15R	4	0.500	0.000	1.176	0.500	0.500	4.000		
Cadmium	ug/L	MW-15R	4	0.056	0.000	1.176	0.055	0.056	5.000		
Chromium	ug/L	MW-15R	4	2.500	0.000	1.176	2.500	2.500	100.000		
Cobalt	ug/L	MW-15R	4	1.858	1.951	1.176	0.000	4.152	2.100		
Copper	ug/L	MW-15R	4	2.500	0.000	1.176	2.500	2.500	1300.000		
Lead	ug/L	MW-15R	4	0.250	0.000	1.176	0.250	0.250	15.000		
Nickel	ug/L	MW-15R	4	3.450	1.900	1.176	1.215	5.685	100.000		
Selenium	ug/L	MW-15R	4	2.500	0.000	1.176	2.500	2.500	50.000		
Silver	ug/L	MW-15R	4	0.500	0.000	1.176	0.500	0.500	100.000		
Thallium	ug/L	MW-15R	4	0.500	0.000	1.176	0.500	0.500	2.000		
Vanadium	ug/L	MW-15R	4	2.500	0.000	1.176	2.500	2.500	35.000		
Zinc	ug/L	MW-15R	4	10.000	0.000	1.176	10.000	10.000	2000.000		
Antimony	ug/L	MW-19	4	1.000	0.000	1.176	1.000	1.000	6.000		
Arsenic	ug/L	MW-19	4	0.720	0.000	1.176	0.720	0.720	10.000		
Barium	ug/L	MW-19	4	1136.500	143.790	1.176	967.361	1305.639	2000.000	inc	
Beryllium	ug/L	MW-19	4	0.500	0.000	1.176	0.500	0.500	4.000		
Cadmium	ug/L	MW-19	4	0.050	0.000	1.176	0.050	0.050	5.000	dec	
Chromium	ug/L	MW-19	4	2.500	0.000	1.176	2.500	2.500	100.000		
Cobalt	ug/L	MW-19	4	22.563	2.048	1.176	20.153	24.972	2.100	inc	**
Copper	ug/L	MW-19	4	2.500	0.000	1.176	2.500	2.500	1300.000		
Lead	ug/L	MW-19	4	0.250	0.000	1.176	0.250	0.250	15.000		
Nickel	ug/L	MW-19	4	55.013	8.316	1.176	45.230	64.795	100.000		
Selenium	ug/L	MW-19	4	2.500	0.000	1.176	2.500	2.500	50.000		
Silver	ug/L	MW-19	4	0.500	0.000	1.176	0.500	0.500	100.000		

* - Insufficient Data
** - Significant Exceedance
LCL = Lower Confidence Limit
UCL = Upper Confidence Limit

Table 1

Confidence Intervals for Comparing the Mean of the Last 4 Measurements to an Assessment Monitoring Standard

Constituent	Units	Well	N	Mean	SD	Factor	95% LCL	95% UCL	Standard	Trend	
Thallium	ug/L	MW-19	4	0.500	0.000	1.176	0.500	0.500	2.000		
Vanadium	ug/L	MW-19	4	2.500	0.000	1.176	2.500	2.500	35.000		
Zinc	ug/L	MW-19	4	10.000	0.000	1.176	10.000	10.000	2000.000		
Antimony	ug/L	MW-20	4	1.000	0.000	1.176	1.000	1.000	6.000		
Arsenic	ug/L	MW-20	4	87.825	16.525	1.176	68.386	107.264	10.000		**
Barium	ug/L	MW-20	4	2797.500	957.927	1.176	1670.701	3924.299	2000.000	dec	
Beryllium	ug/L	MW-20	4	0.500	0.000	1.176	0.500	0.500	4.000		
Cadmium	ug/L	MW-20	4	0.250	0.000	1.176	0.250	0.250	5.000		
Chromium	ug/L	MW-20	4	2.500	0.000	1.176	2.500	2.500	100.000		
Cobalt	ug/L	MW-20	4	11.710	3.435	1.176	7.669	15.751	2.100	dec	**
Copper	ug/L	MW-20	4	2.500	0.000	1.176	2.500	2.500	1300.000		
Lead	ug/L	MW-20	4	0.250	0.000	1.176	0.250	0.250	15.000		
Nickel	ug/L	MW-20	4	48.150	26.329	1.176	17.179	79.121	100.000	dec	
Selenium	ug/L	MW-20	4	2.500	0.000	1.176	2.500	2.500	50.000		
Silver	ug/L	MW-20	4	0.500	0.000	1.176	0.500	0.500	100.000		
Thallium	ug/L	MW-20	4	1.000	0.000	1.176	1.000	1.000	2.000		
Vanadium	ug/L	MW-20	4	2.300	0.000	1.176	2.300	2.300	35.000		
Zinc	ug/L	MW-20	4	10.000	0.000	1.176	10.000	10.000	2000.000		
Antimony	ug/L	MW-21	4	1.000	0.000	1.176	1.000	1.000	6.000		
Arsenic	ug/L	MW-21	4	2.515	2.925	1.176	0.000	5.955	10.000		
Barium	ug/L	MW-21	4	1182.500	56.199	1.176	1116.394	1248.606	2000.000	inc	
Beryllium	ug/L	MW-21	4	0.500	0.000	1.176	0.500	0.500	4.000		
Cadmium	ug/L	MW-21	4	0.100	0.000	1.176	0.100	0.100	5.000		
Chromium	ug/L	MW-21	4	2.500	0.000	1.176	2.500	2.500	100.000		
Cobalt	ug/L	MW-21	4	7.740	3.907	1.176	3.145	12.335	2.100		**
Copper	ug/L	MW-21	4	3.725	2.450	1.176	0.843	6.607	1300.000		
Lead	ug/L	MW-21	4	0.250	0.000	1.176	0.250	0.250	15.000		
Nickel	ug/L	MW-21	4	18.108	9.362	1.176	7.095	29.120	100.000		
Selenium	ug/L	MW-21	4	2.500	0.000	1.176	2.500	2.500	50.000		
Silver	ug/L	MW-21	4	0.500	0.000	1.176	0.500	0.500	100.000		
Thallium	ug/L	MW-21	4	0.500	0.000	1.176	0.500	0.500	2.000		
Vanadium	ug/L	MW-21	4	2.500	0.000	1.176	2.500	2.500	35.000		
Zinc	ug/L	MW-21	4	14.525	9.050	1.176	3.880	25.170	2000.000		
Antimony	ug/L	MW-22	4	7.598	9.336	1.176	0.000	18.579	6.000		
Arsenic	ug/L	MW-22	4	0.500	0.000	1.176	0.500	0.500	10.000		
Barium	ug/L	MW-22	4	240.250	8.302	1.176	230.485	250.015	2000.000		
Beryllium	ug/L	MW-22	4	0.500	0.000	1.176	0.500	0.500	4.000		
Cadmium	ug/L	MW-22	4	0.234	0.032	1.176	0.196	0.272	5.000		
Chromium	ug/L	MW-22	4	2.500	0.000	1.176	2.500	2.500	100.000		
Cobalt	ug/L	MW-22	4	0.500	0.000	1.176	0.500	0.500	2.100		
Copper	ug/L	MW-22	4	2.500	0.000	1.176	2.500	2.500	1300.000		
Lead	ug/L	MW-22	4	0.500	0.000	1.176	0.500	0.500	15.000		
Nickel	ug/L	MW-22	4	4.563	4.125	1.176	0.000	9.415	100.000		
Selenium	ug/L	MW-22	4	2.500	0.000	1.176	2.500	2.500	50.000		
Silver	ug/L	MW-22	4	0.500	0.000	1.176	0.500	0.500	100.000		
Thallium	ug/L	MW-22	4	0.500	0.000	1.176	0.500	0.500	2.000		
Vanadium	ug/L	MW-22	4	1.500	0.000	1.176	1.500	1.500	35.000		
Zinc	ug/L	MW-22	4	10.000	0.000	1.176	10.000	10.000	2000.000		
Antimony	ug/L	MW-23	4	1.500	0.000	1.176	1.500	1.500	6.000		
Arsenic	ug/L	MW-23	4	1.000	0.000	1.176	1.000	1.000	10.000		
Barium	ug/L	MW-23	4	121.075	65.410	1.176	44.134	198.016	2000.000	dec	
Beryllium	ug/L	MW-23	4	0.500	0.000	1.176	0.500	0.500	4.000		
Cadmium	ug/L	MW-23	4	0.250	0.000	1.176	0.250	0.250	5.000		
Chromium	ug/L	MW-23	4	2.500	0.000	1.176	2.500	2.500	100.000		
Cobalt	ug/L	MW-23	4	0.475	0.050	1.176	0.416	0.534	2.100		
Copper	ug/L	MW-23	4	2.500	0.000	1.176	2.500	2.500	1300.000		
Lead	ug/L	MW-23	4	0.500	0.000	1.176	0.500	0.500	15.000		
Nickel	ug/L	MW-23	4	2.500	0.000	1.176	2.500	2.500	100.000		
Selenium	ug/L	MW-23	4	1.500	0.000	1.176	1.500	1.500	50.000		
Silver	ug/L	MW-23	4	0.500	0.000	1.176	0.500	0.500	100.000		
Thallium	ug/L	MW-23	4	1.125	0.250	1.176	0.831	1.419	2.000		
Vanadium	ug/L	MW-23	4	2.500	0.000	1.176	2.500	2.500	35.000		
Zinc	ug/L	MW-23	4	14.913	9.825	1.176	3.355	26.470	2000.000		
Antimony	ug/L	MW-24	4	1.000	0.000	1.176	1.000	1.000	6.000		
Arsenic	ug/L	MW-24	4	2.951	4.633	1.176	0.000	8.400	10.000		
Barium	ug/L	MW-24	4	703.000	97.348	1.176	588.490	817.510	2000.000		
Beryllium	ug/L	MW-24	4	0.500	0.000	1.176	0.500	0.500	4.000		
Cadmium	ug/L	MW-24	4	0.935	0.236	1.176	0.657	1.212	5.000		
Chromium	ug/L	MW-24	4	2.500	0.000	1.176	2.500	2.500	100.000		
Cobalt	ug/L	MW-24	4	3.145	0.875	1.176	2.116	4.174	2.100		**
Copper	ug/L	MW-24	4	3.025	1.050	1.176	1.790	4.260	1300.000		
Lead	ug/L	MW-24	4	0.250	0.000	1.176	0.250	0.250	15.000		

* - Insufficient Data
** - Significant Exceedance
LCL = Lower Confidence Limit
UCL = Upper Confidence Limit

Table 1

Confidence Intervals for Comparing the Mean of the Last 4 Measurements to an Assessment Monitoring Standard

Constituent	Units	Well	N	Mean	SD	Factor	95% LCL	95% UCL	Standard	Trend	
Nickel	ug/L	MW-24	4	29.300	3.777	1.176	24.857	33.743	100.000		
Selenium	ug/L	MW-24	4	2.500	0.000	1.176	2.500	2.500	50.000		
Silver	ug/L	MW-24	4	0.500	0.000	1.176	0.500	0.500	100.000		
Thallium	ug/L	MW-24	4	0.500	0.000	1.176	0.500	0.500	2.000		
Vanadium	ug/L	MW-24	4	2.500	0.000	1.176	2.500	2.500	35.000		
Zinc	ug/L	MW-24	4	10.000	0.000	1.176	10.000	10.000	2000.000		
Antimony	ug/L	MW-36	4	1.000	0.000	1.176	1.000	1.000	6.000		
Arsenic	ug/L	MW-36	4	1.000	0.000	1.176	1.000	1.000	10.000		
Barium	ug/L	MW-36	4	152.125	33.547	1.176	112.664	191.586	2000.000	dec	
Beryllium	ug/L	MW-36	4	1.413	1.825	1.176	0.000	3.559	4.000		
Cadmium	ug/L	MW-36	4	1.096	0.960	1.176	0.000	2.225	5.000	dec	
Chromium	ug/L	MW-36	4	13.100	21.200	1.176	0.000	38.037	100.000		
Cobalt	ug/L	MW-36	4	7.714	11.333	1.176	0.000	21.044	2.100	dec	
Copper	ug/L	MW-36	4	4.900	4.800	1.176	0.000	10.546	1300.000		
Lead	ug/L	MW-36	4	2.295	2.962	1.176	0.000	5.779	15.000	dec	
Nickel	ug/L	MW-36	4	38.743	55.748	1.176	0.000	104.319	100.000		
Selenium	ug/L	MW-36	4	1.500	0.000	1.176	1.500	1.500	50.000		
Silver	ug/L	MW-36	4	0.500	0.000	1.176	0.500	0.500	100.000		
Thallium	ug/L	MW-36	4	0.500	0.000	1.176	0.500	0.500	2.000		
Vanadium	ug/L	MW-36	4	11.450	13.324	1.176	0.000	27.123	35.000		
Zinc	ug/L	MW-36	4	15.800	11.600	1.176	2.155	29.445	2000.000	dec	
Antimony	ug/L	MW-37R	4	0.765	0.000	1.176	0.765	0.765	6.000		
Arsenic	ug/L	MW-37R	4	0.630	0.000	1.176	0.630	0.630	10.000		
Barium	ug/L	MW-37R	4	739.250	83.420	1.176	641.124	837.376	2000.000		
Beryllium	ug/L	MW-37R	4	0.500	0.000	1.176	0.500	0.500	4.000		
Cadmium	ug/L	MW-37R	4	0.152	0.050	1.176	0.093	0.212	5.000		
Chromium	ug/L	MW-37R	4	2.500	0.000	1.176	2.500	2.500	100.000		
Cobalt	ug/L	MW-37R	4	0.711	0.413	1.176	0.225	1.197	2.100		
Copper	ug/L	MW-37R	4	1.850	0.000	1.176	1.850	1.850	1300.000		
Lead	ug/L	MW-37R	4	1.338	0.801	1.176	0.396	2.279	15.000		
Nickel	ug/L	MW-37R	4	4.675	5.350	1.176	0.000	10.968	100.000		
Selenium	ug/L	MW-37R	4	33.050	18.604	1.176	11.166	54.934	50.000		
Silver	ug/L	MW-37R	4	0.500	0.000	1.176	0.500	0.500	100.000		
Thallium	ug/L	MW-37R	4	0.500	0.000	1.176	0.500	0.500	2.000		
Vanadium	ug/L	MW-37R	4	1.100	0.000	1.176	1.100	1.100	35.000		
Zinc	ug/L	MW-37R	4	10.000	0.000	1.176	10.000	10.000	2000.000		
Antimony	ug/L	MW-38R	4	1.000	0.000	1.176	1.000	1.000	6.000		
Arsenic	ug/L	MW-38R	4	4.675	7.350	1.176	0.000	13.321	10.000		
Barium	ug/L	MW-38R	4	270.750	51.448	1.176	210.232	331.268	2000.000		
Beryllium	ug/L	MW-38R	4	0.500	0.000	1.176	0.500	0.500	4.000		
Cadmium	ug/L	MW-38R	4	0.532	0.912	1.176	0.000	1.605	5.000		
Chromium	ug/L	MW-38R	4	100.000	113.821	1.176	0.000	233.886	100.000		
Cobalt	ug/L	MW-38R	4	4.998	7.971	1.176	0.000	14.374	2.100		
Copper	ug/L	MW-38R	4	8.695	10.261	1.176	0.000	20.765	1300.000		
Lead	ug/L	MW-38R	4	3.813	7.125	1.176	0.000	12.194	15.000		
Nickel	ug/L	MW-38R	4	71.920	78.732	1.176	0.000	164.532	100.000		
Selenium	ug/L	MW-38R	4	26.625	14.552	1.176	9.508	43.742	50.000		
Silver	ug/L	MW-38R	4	0.500	0.000	1.176	0.500	0.500	100.000		
Thallium	ug/L	MW-38R	4	0.500	0.000	1.176	0.500	0.500	2.000		
Vanadium	ug/L	MW-38R	4	15.403	29.265	1.176	0.000	49.827	35.000		
Zinc	ug/L	MW-38R	4	18.500	17.000	1.176	0.000	38.497	2000.000		
Antimony	ug/L	MW-39	4	1.000	0.000	1.176	1.000	1.000	6.000		
Arsenic	ug/L	MW-39	4	1.000	0.000	1.176	1.000	1.000	10.000		
Barium	ug/L	MW-39	4	90.150	5.129	1.176	84.117	96.183	2000.000	inc	
Beryllium	ug/L	MW-39	4	0.500	0.000	1.176	0.500	0.500	4.000		
Cadmium	ug/L	MW-39	4	0.222	0.062	1.176	0.149	0.295	5.000		
Chromium	ug/L	MW-39	4	1.580	0.000	1.176	1.580	1.580	100.000		
Cobalt	ug/L	MW-39	4	0.250	0.000	1.176	0.250	0.250	2.100		
Copper	ug/L	MW-39	4	2.500	0.000	1.176	2.500	2.500	1300.000		
Lead	ug/L	MW-39	4	0.340	0.180	1.176	0.128	0.552	15.000		
Nickel	ug/L	MW-39	4	2.500	0.000	1.176	2.500	2.500	100.000		
Selenium	ug/L	MW-39	4	72.363	6.695	1.176	64.488	80.237	50.000		**
Silver	ug/L	MW-39	4	0.500	0.000	1.176	0.500	0.500	100.000		
Thallium	ug/L	MW-39	4	1.579	1.158	1.176	0.217	2.940	2.000		
Vanadium	ug/L	MW-39	4	2.828	0.655	1.176	2.057	3.598	35.000		
Zinc	ug/L	MW-39	4	10.000	0.000	1.176	10.000	10.000	2000.000		
Antimony	ug/L	MW-43	4	1.000	0.000	1.176	1.000	1.000	6.000		
Arsenic	ug/L	MW-43	4	1.078	0.895	1.176	0.025	2.130	10.000		
Barium	ug/L	MW-43	4	238.500	76.744	1.176	148.227	328.773	2000.000		
Beryllium	ug/L	MW-43	4	0.500	0.000	1.176	0.500	0.500	4.000		
Cadmium	ug/L	MW-43	4	0.086	0.102	1.176	0.000	0.207	5.000		
Chromium	ug/L	MW-43	4	2.500	0.000	1.176	2.500	2.500	100.000		

* - Insufficient Data
** - Significant Exceedance
LCL = Lower Confidence Limit
UCL = Upper Confidence Limit

Table 1

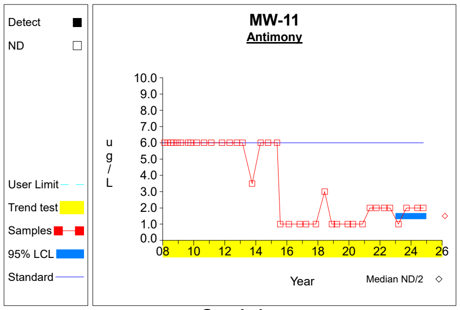
Confidence Intervals for Comparing the Mean of the Last 4 Measurements to an Assessment Monitoring Standard

Constituent	Units	Well	N	Mean	SD	Factor	95% LCL	95% UCL	Standard	Trend	
Cobalt	ug/L	MW-43	4	3.650	6.257	1.176	0.000	11.010	2.100		
Copper	ug/L	MW-43	4	2.500	0.000	1.176	2.500	2.500	1300.000		
Lead	ug/L	MW-43	4	0.250	0.000	1.176	0.250	0.250	15.000		
Nickel	ug/L	MW-43	4	3.328	2.236	1.176	0.697	5.958	100.000		
Selenium	ug/L	MW-43	4	2.500	0.000	1.176	2.500	2.500	50.000		
Silver	ug/L	MW-43	4	0.500	0.000	1.176	0.500	0.500	100.000		
Thallium	ug/L	MW-43	4	0.500	0.000	1.176	0.500	0.500	2.000		
Vanadium	ug/L	MW-43	4	0.990	0.000	1.176	0.990	0.990	35.000		
Zinc	ug/L	MW-43	4	10.000	0.000	1.176	10.000	10.000	2000.000		
Antimony	ug/L	UD-0	4	1.402	0.648	1.176	0.640	2.165	6.000		
Arsenic	ug/L	UD-0	4	3.918	2.086	1.176	1.464	6.371	10.000		
Barium	ug/L	UD-0	4	801.500	151.430	1.176	623.375	979.625	2000.000	inc	
Beryllium	ug/L	UD-0	4	0.500	0.000	1.176	0.500	0.500	4.000		
Cadmium	ug/L	UD-0	4	0.195	0.125	1.176	0.049	0.342	5.000		
Chromium	ug/L	UD-0	4	5.104	2.972	1.176	1.608	8.599	100.000		
Cobalt	ug/L	UD-0	4	16.900	9.536	1.176	5.683	28.117	2.100		**
Copper	ug/L	UD-0	4	11.063	6.859	1.176	2.994	19.131	1300.000		
Lead	ug/L	UD-0	4	0.556	0.263	1.176	0.247	0.865	15.000		
Nickel	ug/L	UD-0	4	99.625	28.913	1.176	65.614	133.636	100.000		
Selenium	ug/L	UD-0	4	1.830	0.000	1.176	1.830	1.830	50.000		
Silver	ug/L	UD-0	4	0.500	0.000	1.176	0.500	0.500	100.000		
Thallium	ug/L	UD-0	4	0.500	0.000	1.176	0.500	0.500	2.000		
Vanadium	ug/L	UD-0	4	1.500	0.000	1.176	1.500	1.500	35.000		
Zinc	ug/L	UD-0	4	5.000	0.000	1.176	5.000	5.000	2000.000		
Antimony	ug/L	UD-1	1								*
Arsenic	ug/L	UD-1	1								*
Barium	ug/L	UD-1	1								*
Beryllium	ug/L	UD-1	1								*
Cadmium	ug/L	UD-1	1								*
Chromium	ug/L	UD-1	1								*
Cobalt	ug/L	UD-1	1								*
Copper	ug/L	UD-1	1								*
Lead	ug/L	UD-1	1								*
Nickel	ug/L	UD-1	1								*
Selenium	ug/L	UD-1	1								*
Silver	ug/L	UD-1	1								*
Thallium	ug/L	UD-1	1								*
Vanadium	ug/L	UD-1	1								*
Zinc	ug/L	UD-1	1								*

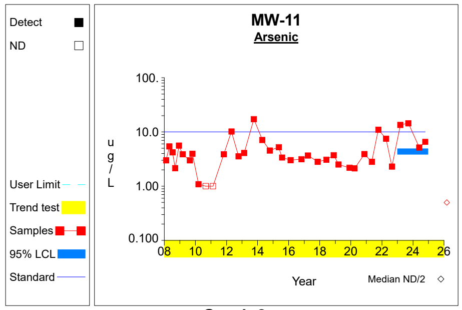
* - Insufficient Data
** - Significant Exceedance
LCL = Lower Confidence Limit
UCL = Upper Confidence Limit

Cass County [GW] December 2024

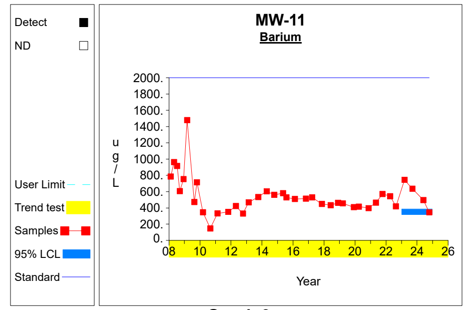
Confidence Limits (Assessment)



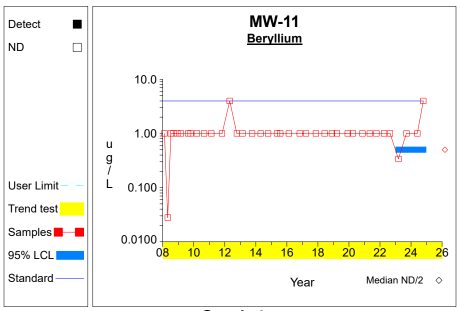
Graph 1



Graph 2



Graph 3



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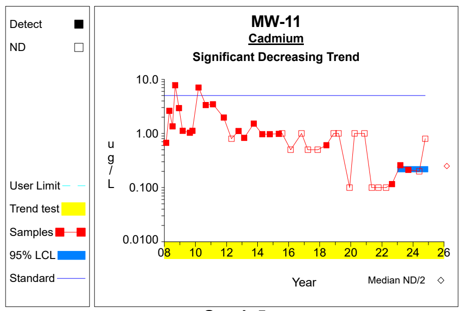

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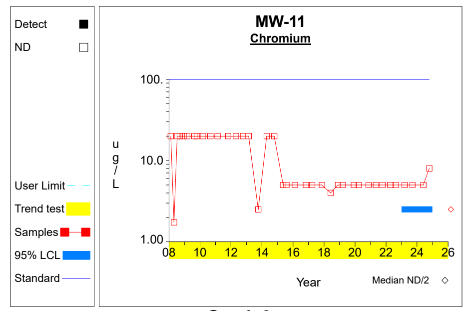

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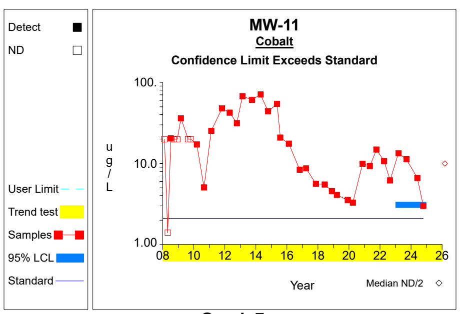
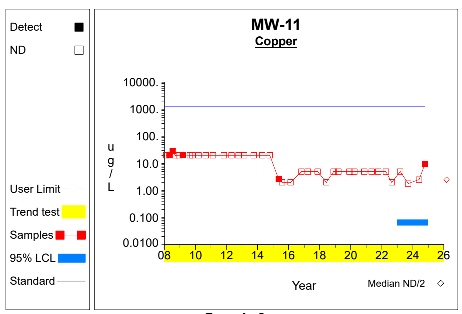


Graph 7



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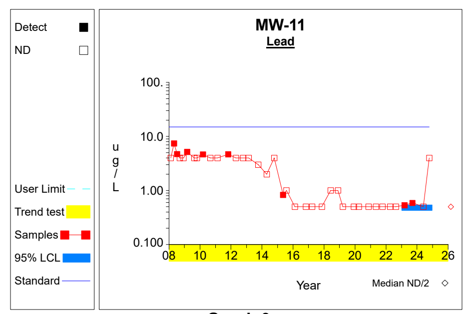

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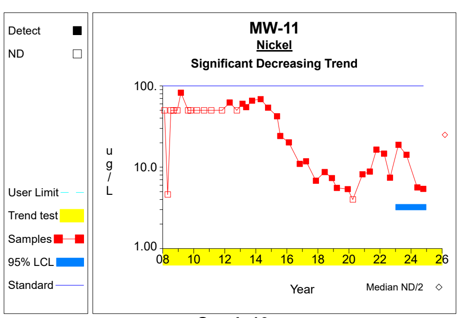
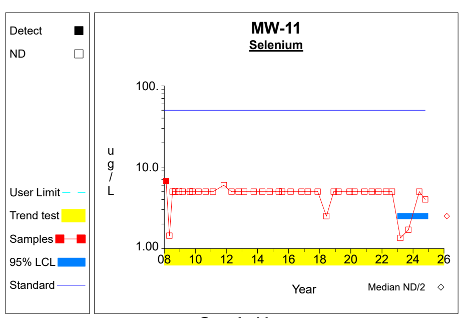
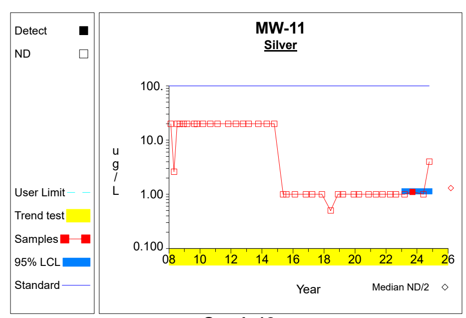


Graph 10



Graph 11



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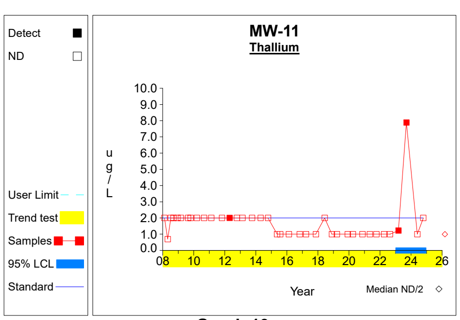

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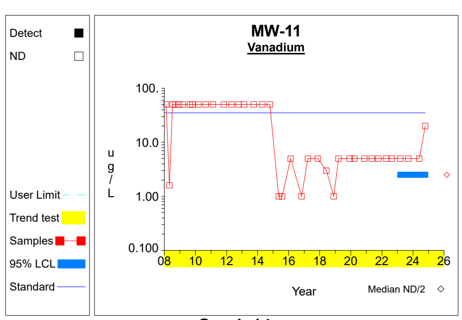

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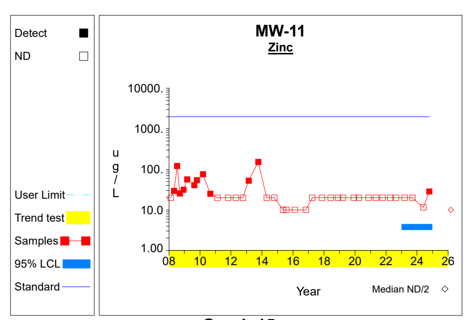

Graph 15

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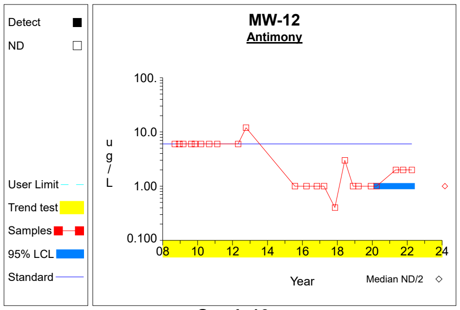
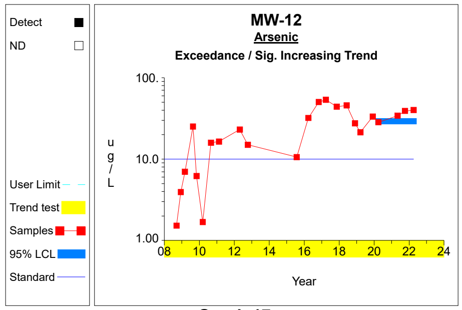
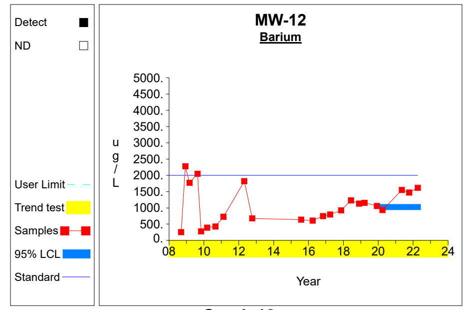
Confidence Limits (Assessment)



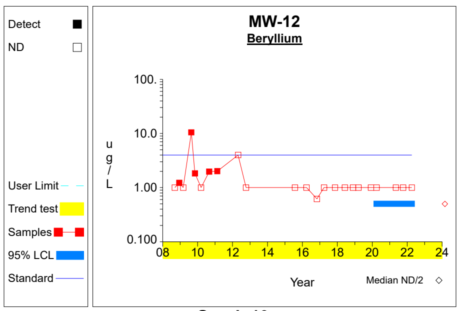
Graph 16



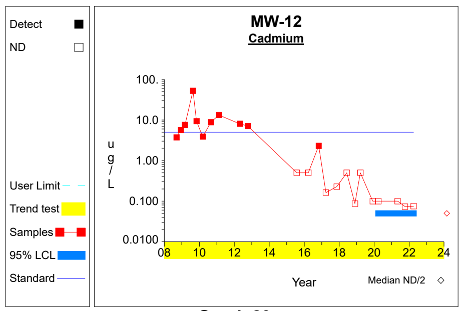
Graph 17



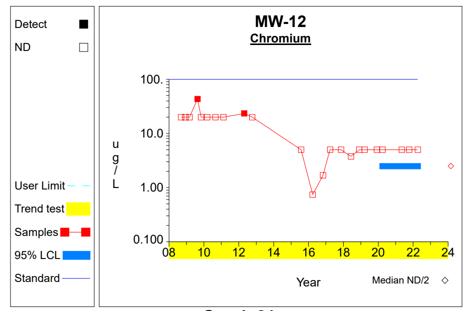
Graph 18



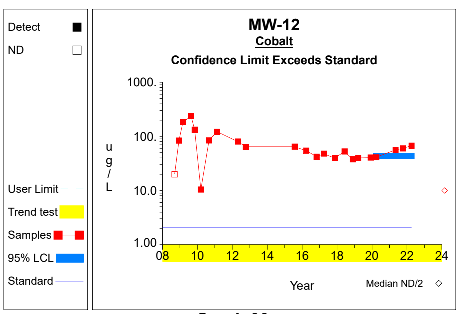
Graph 19



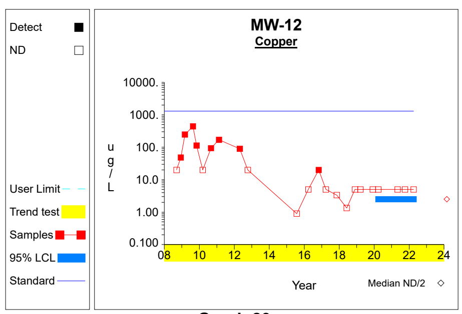
Graph 20



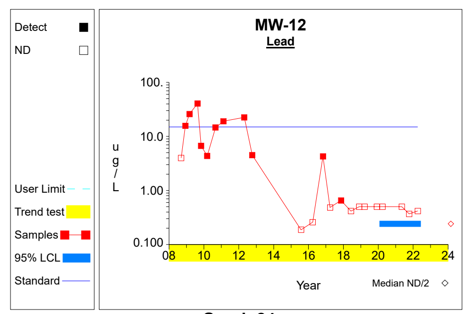
Graph 21



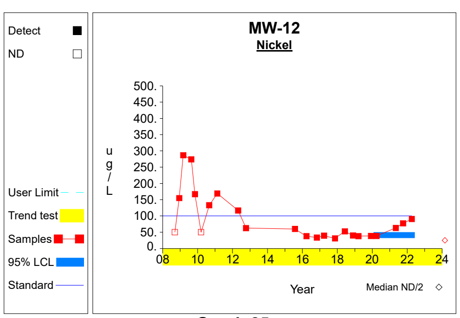
Graph 22



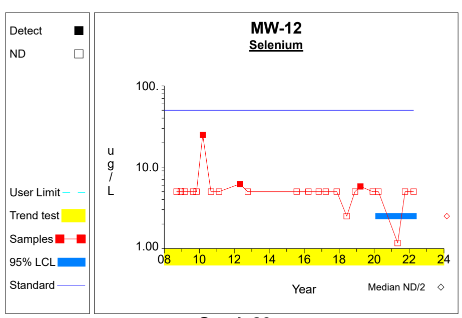
Graph 23



Graph 24



Graph 25



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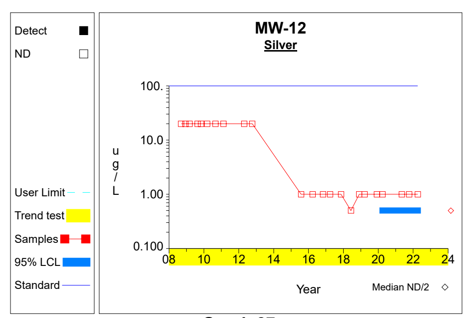

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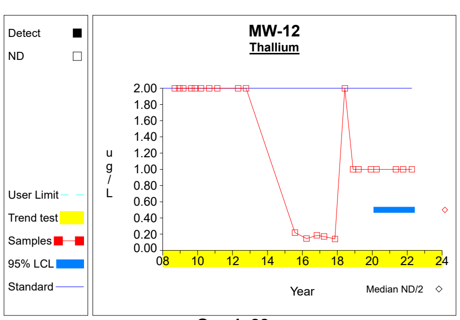

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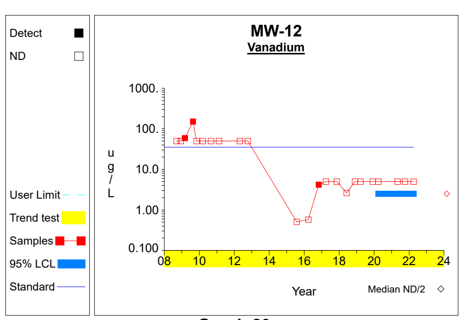

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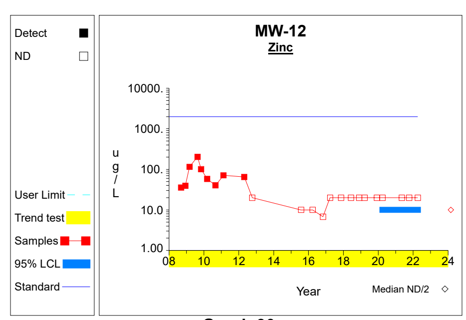

Graph 30

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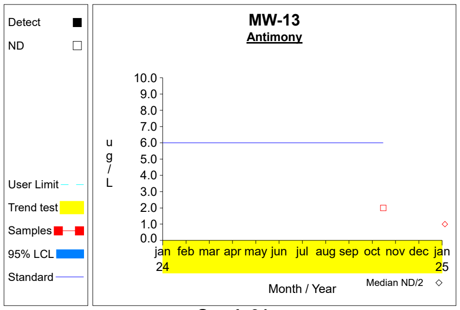
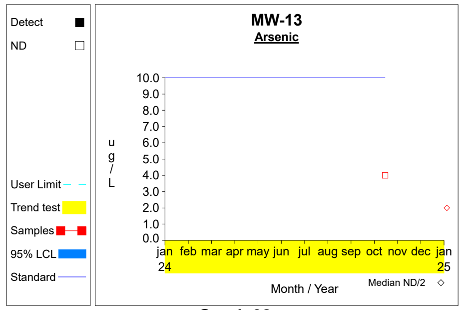
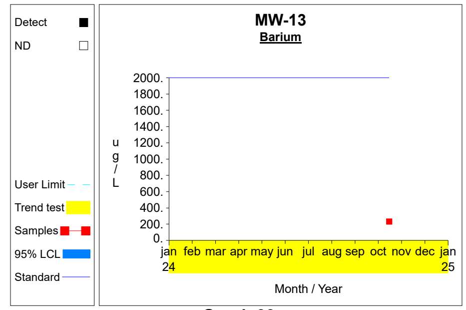
Confidence Limits (Assessment)



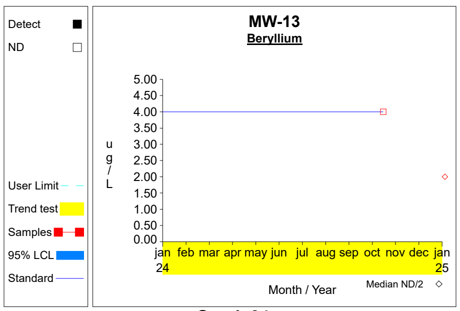
Graph 31



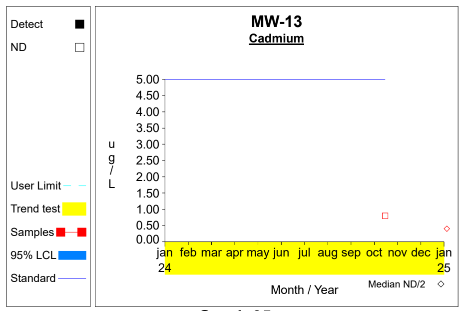
Graph 32



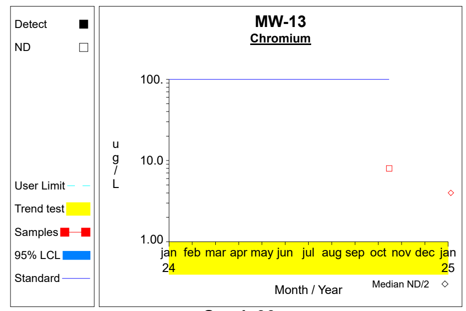
Graph 33



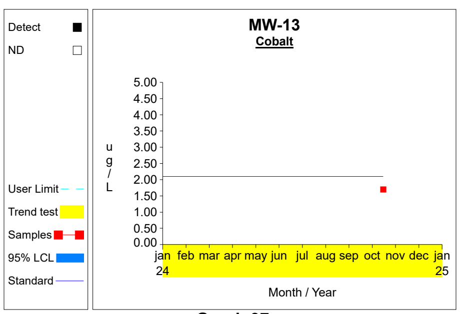
Graph 34



Graph 35



Graph 36



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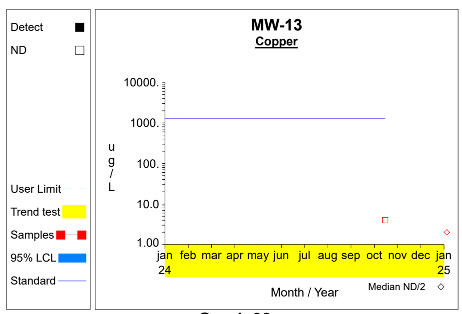
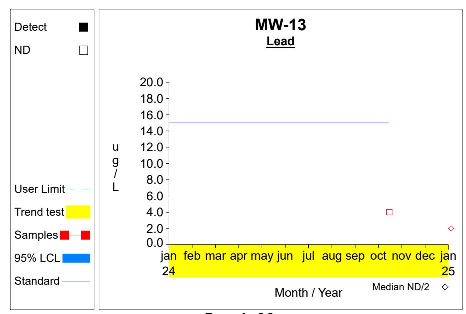


Graph 38



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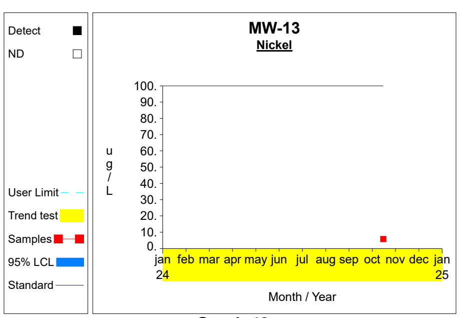

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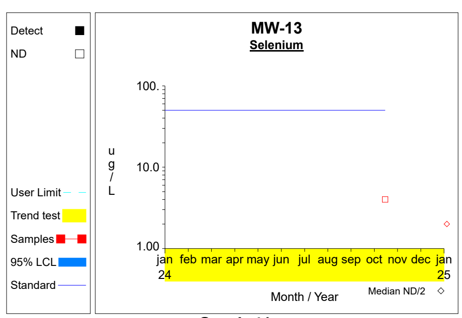

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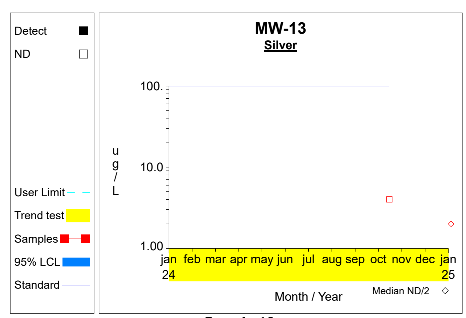

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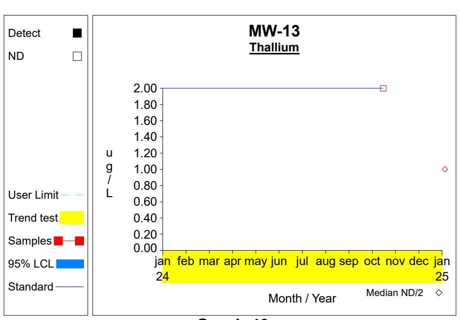

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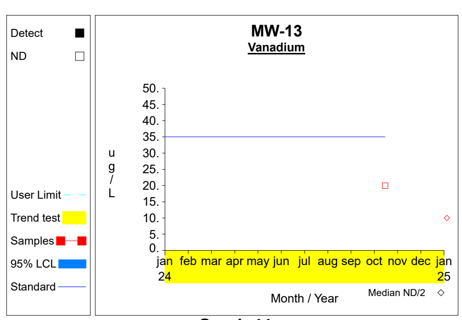

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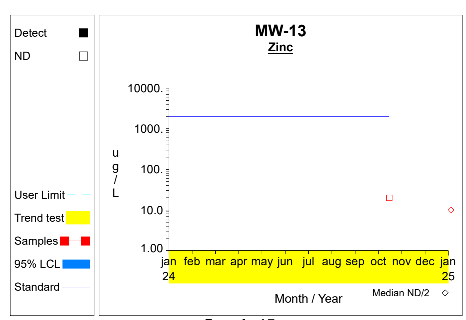

Graph 45

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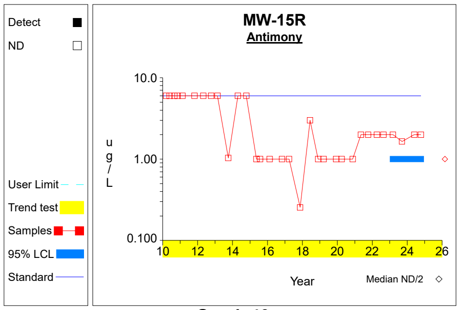
Confidence Limits (Assessment)



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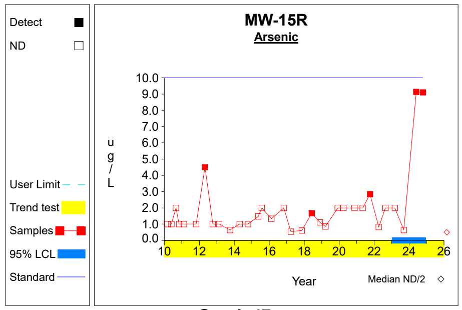
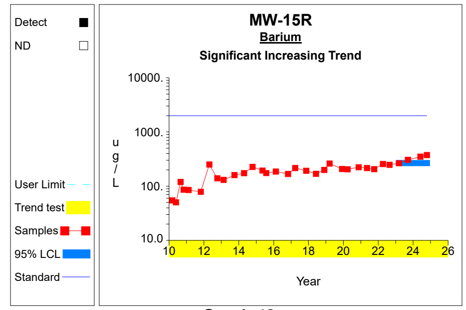


Graph 47



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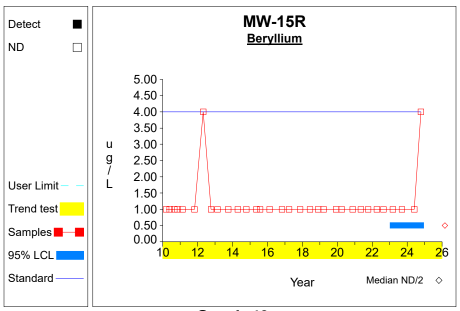

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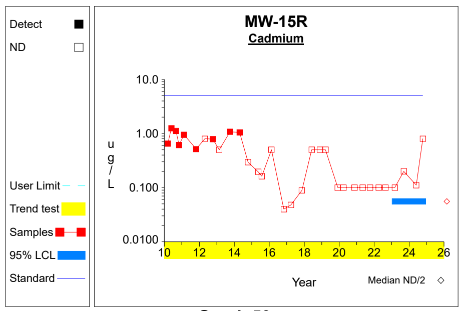

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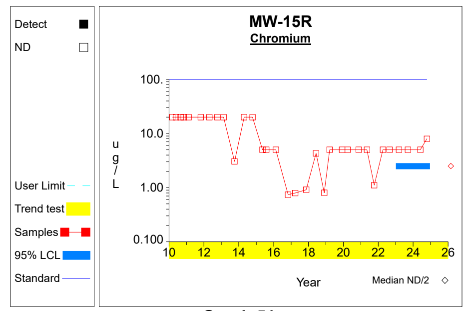

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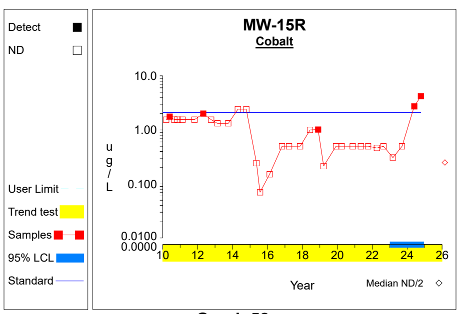

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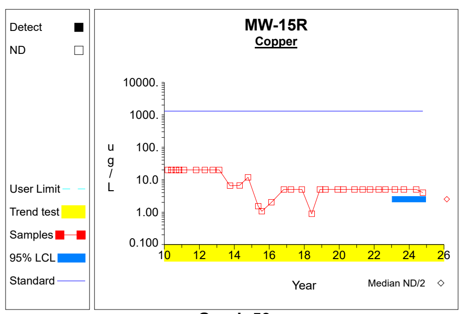

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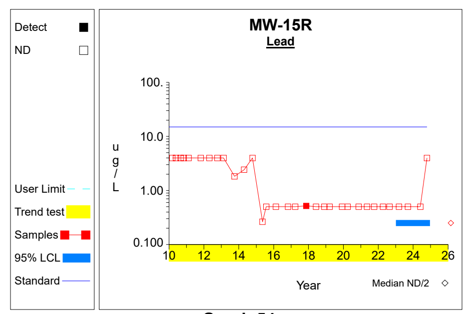

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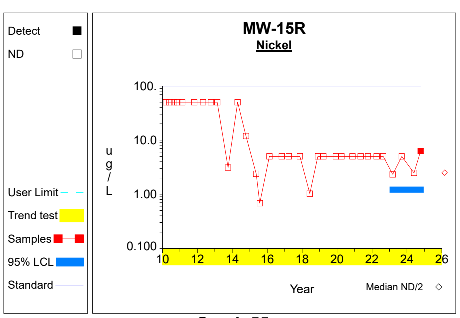

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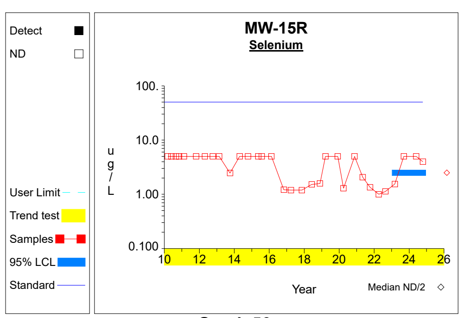

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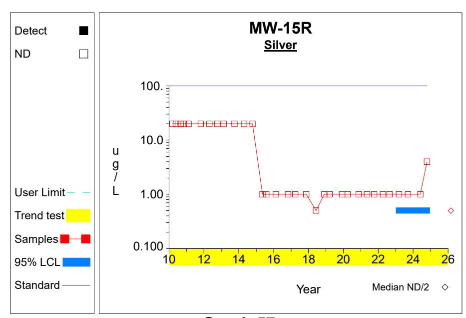

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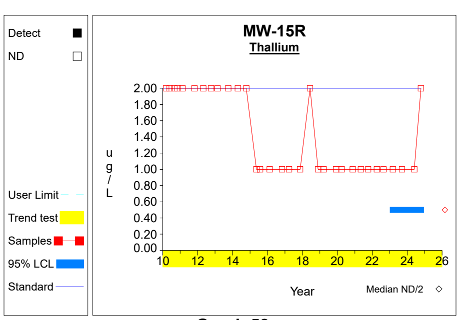

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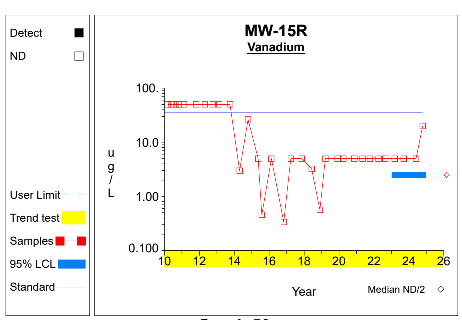

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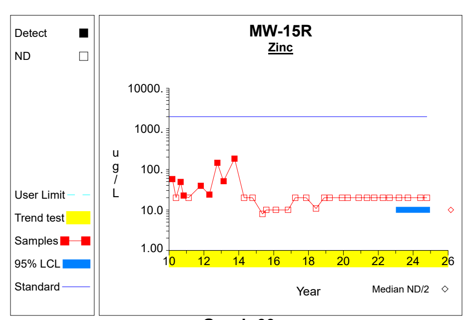

Graph 60

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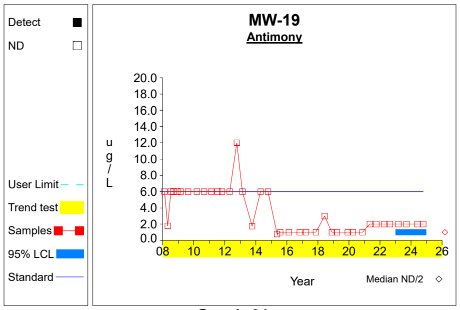
Confidence Limits (Assessment)



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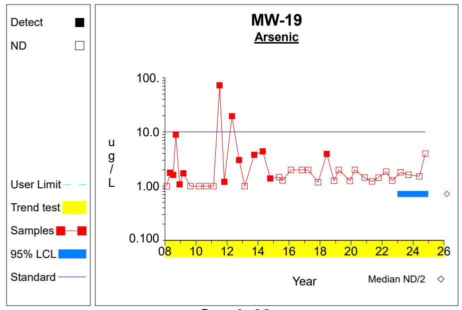
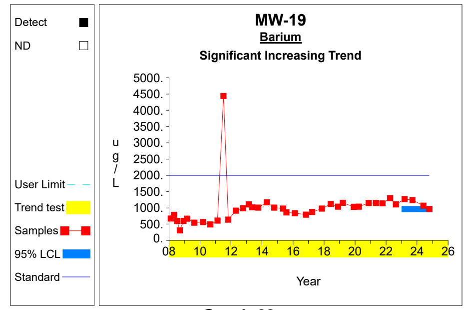
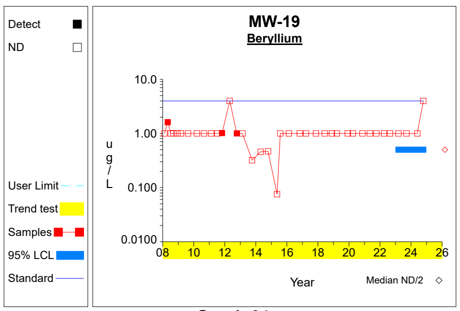


Graph 62



Graph 63



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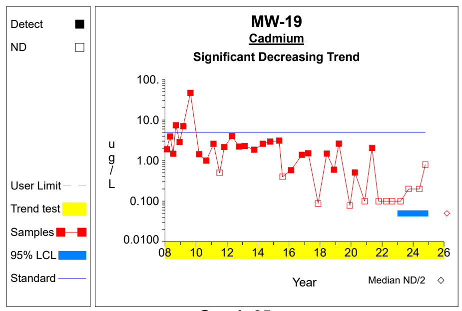

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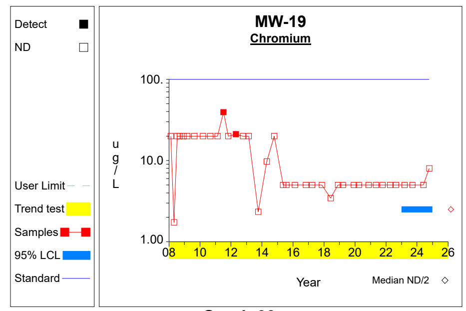

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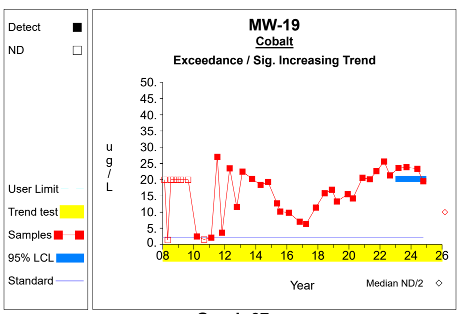

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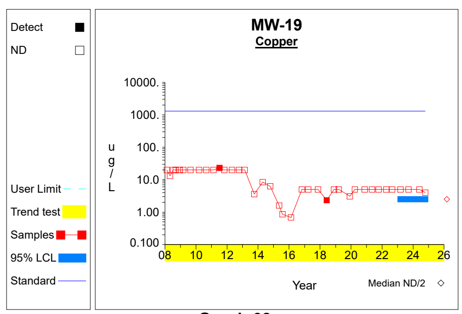

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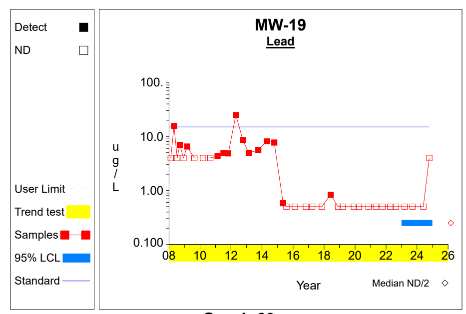

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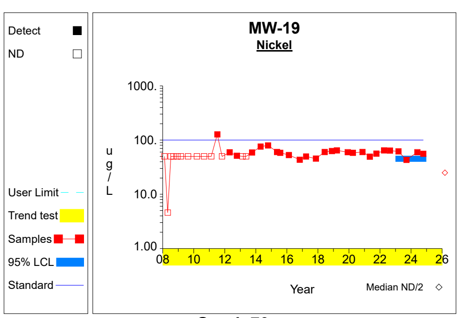

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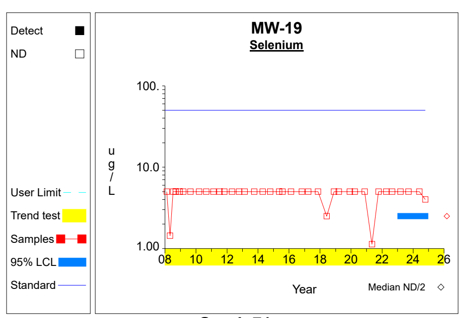

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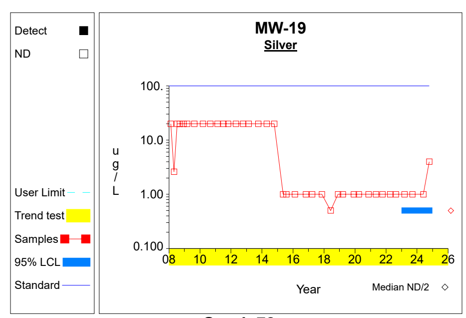

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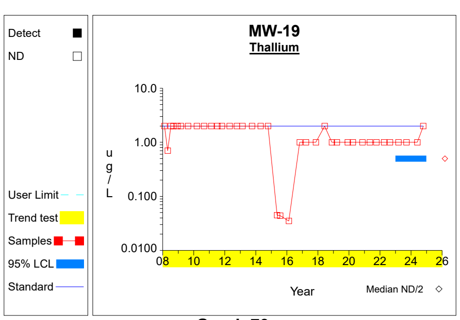

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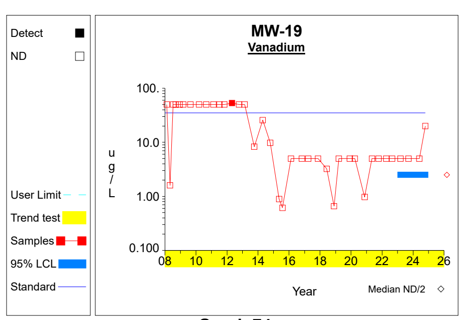

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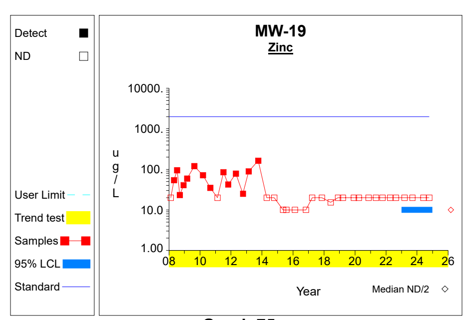

Graph 75

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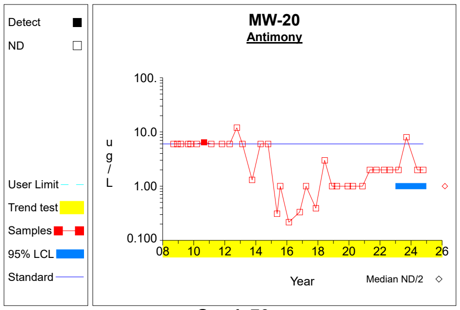
Confidence Limits (Assessment)



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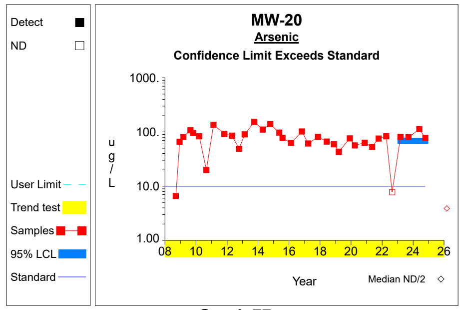

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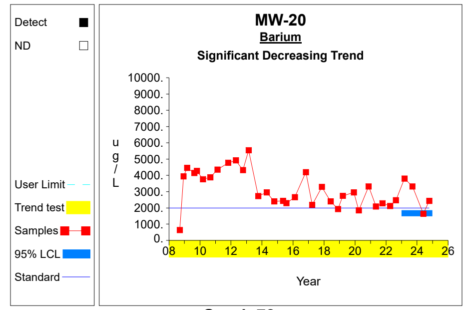

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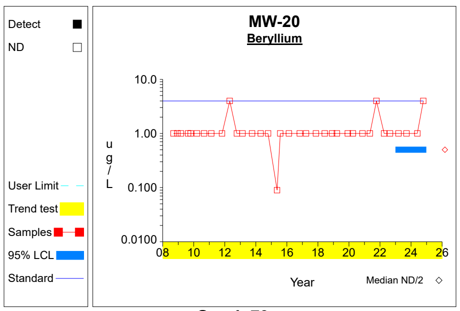

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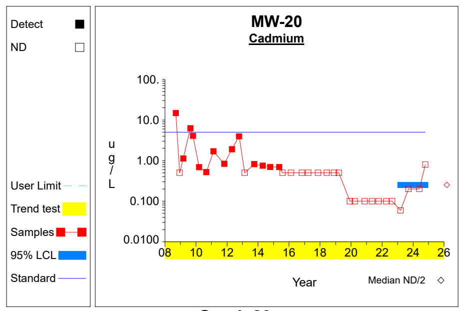

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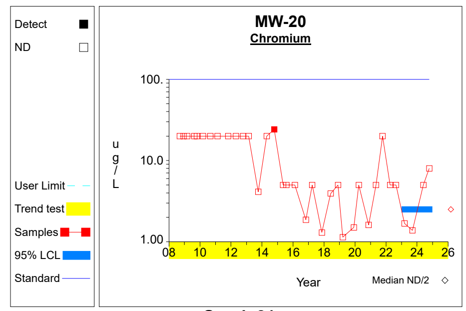

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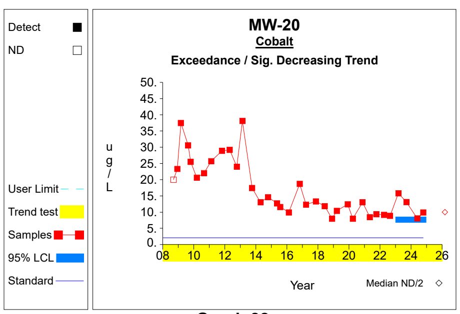

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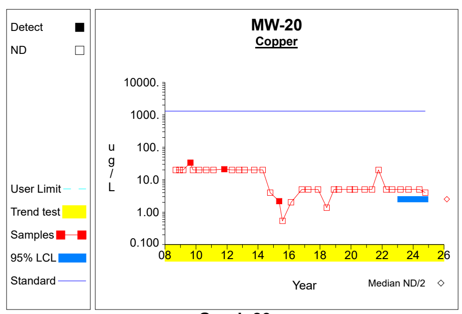

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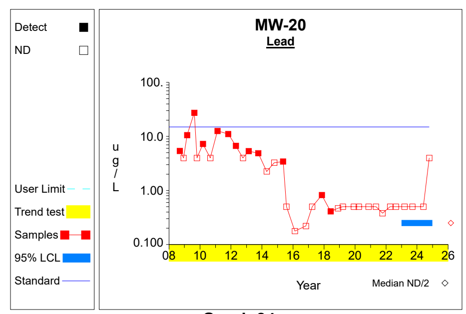

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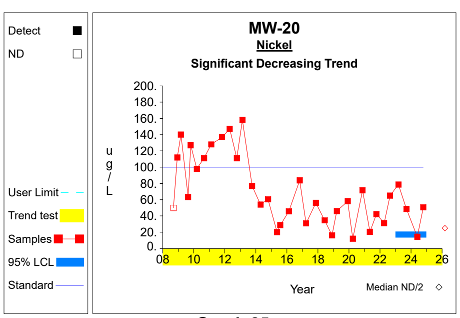

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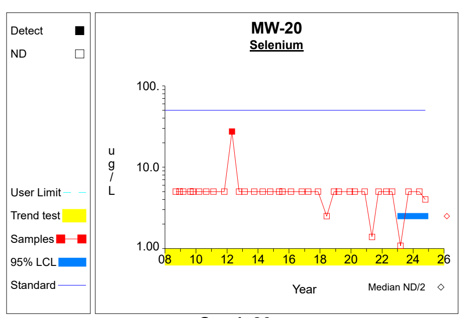

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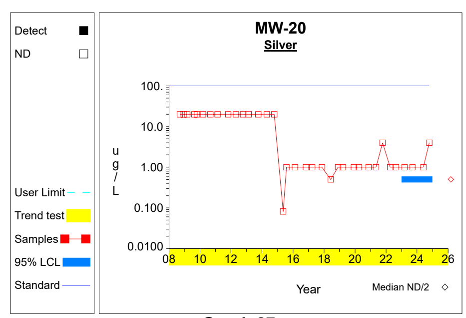
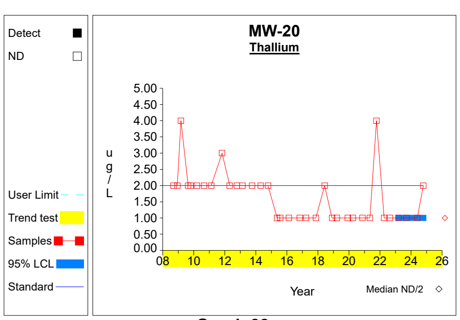


Graph 87



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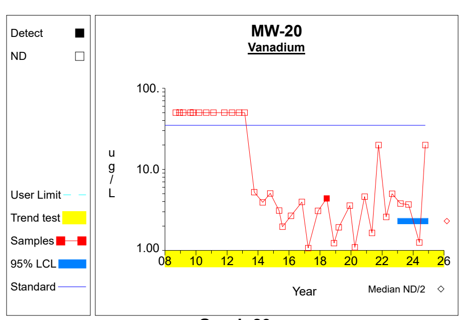

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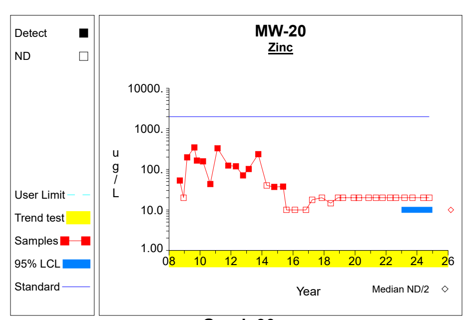

Graph 90

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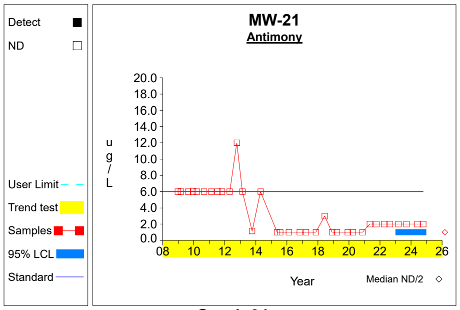
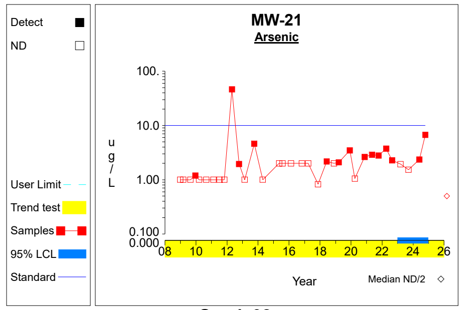
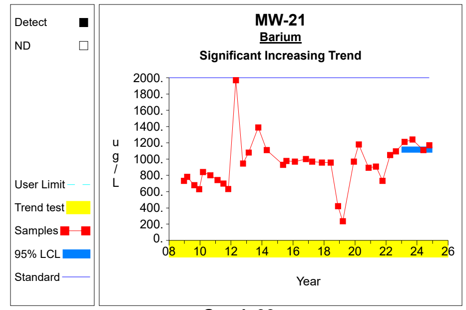
Confidence Limits (Assessment)



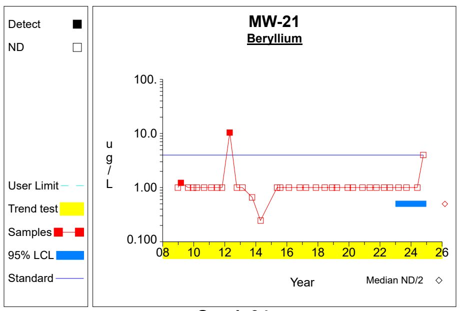
Graph 91



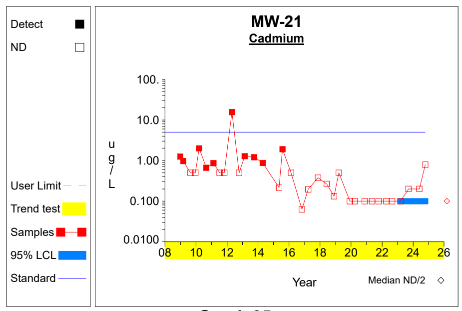
Graph 92



Graph 93



Graph 94



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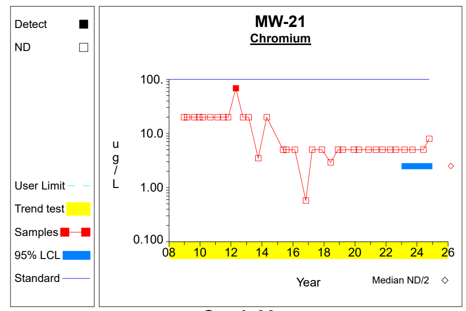

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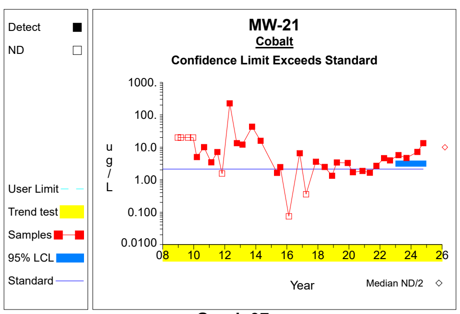
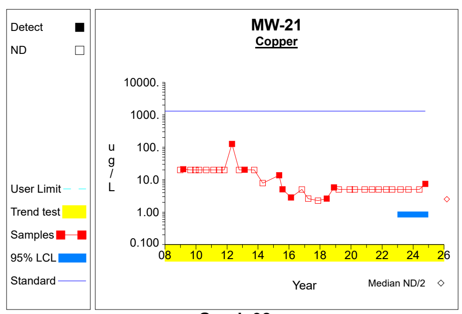


Graph 97



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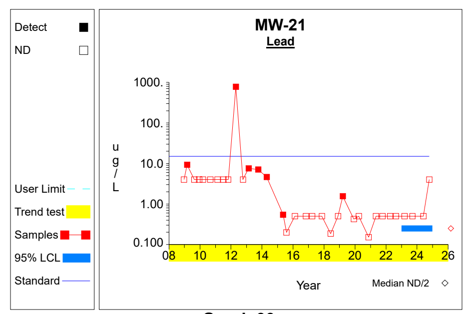
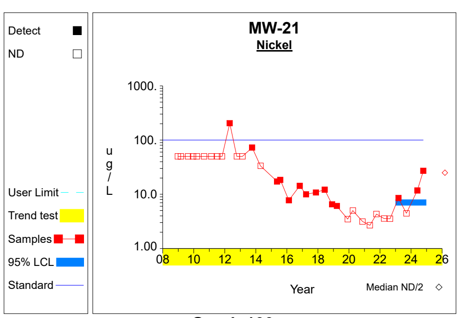


Graph 99



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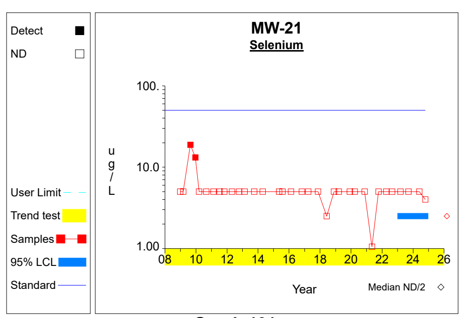
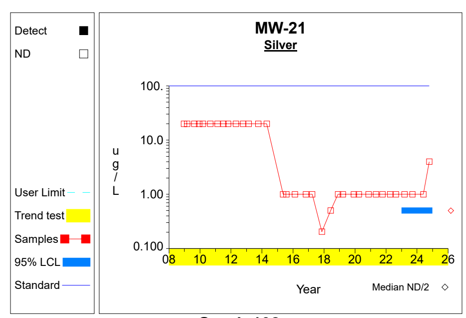
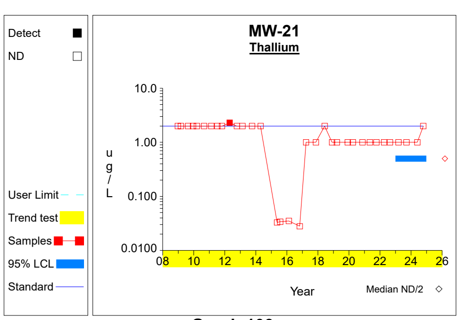


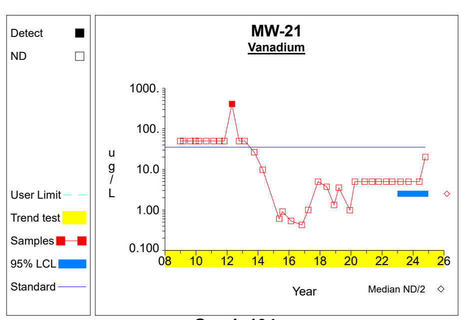
Graph 101



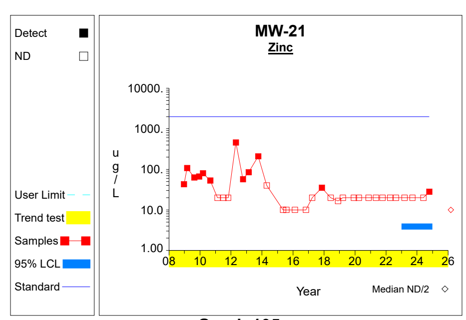
Graph 102



Graph 103

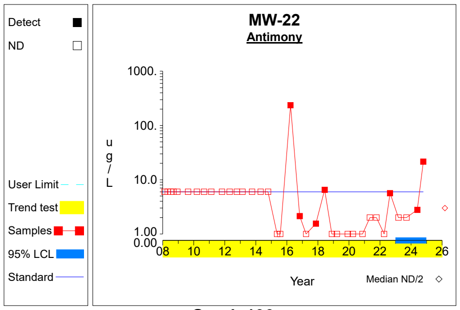


Graph 104

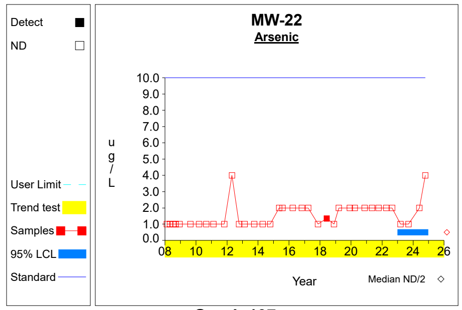


Graph 105

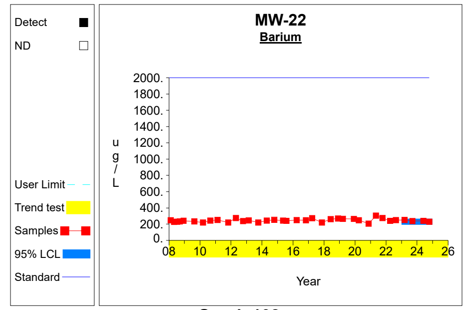
Confidence Limits (Assessment)



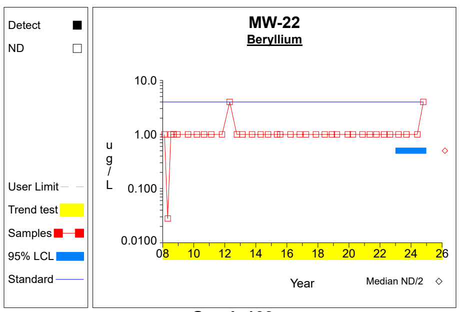
Graph 106



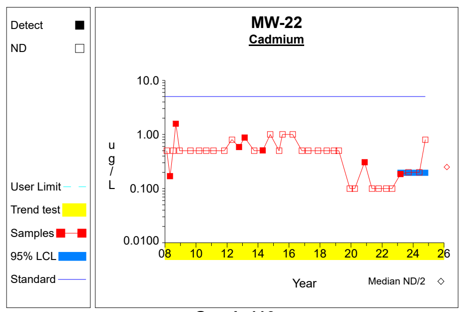
Graph 107



Graph 108



Graph 109



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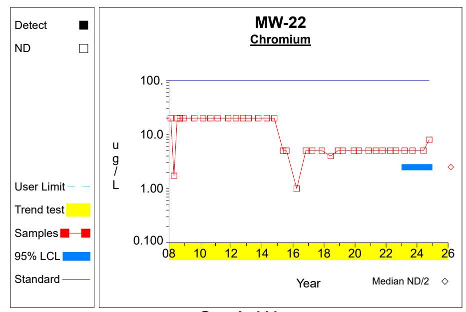
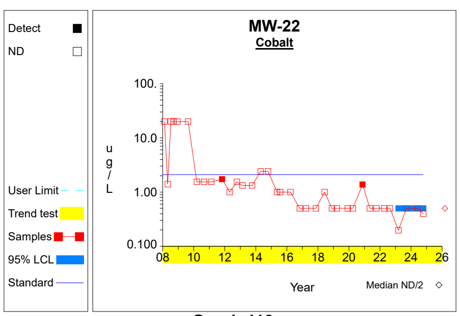
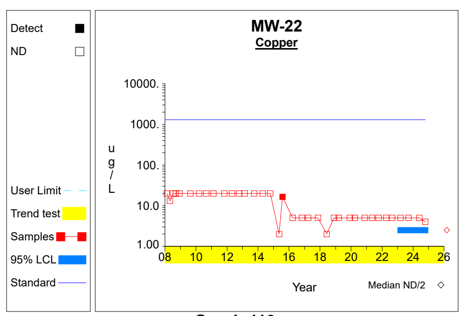


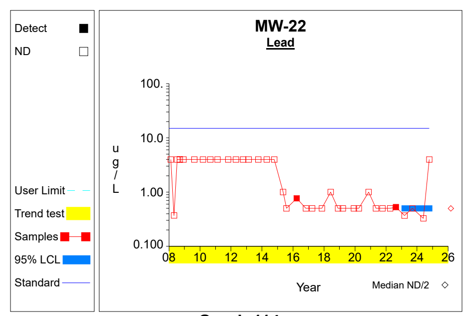
Graph 111



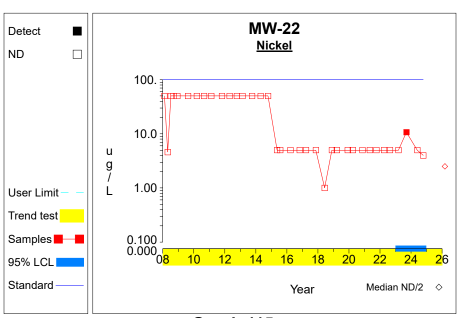
Graph 112



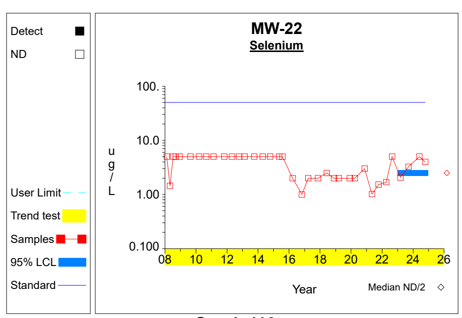
Graph 113



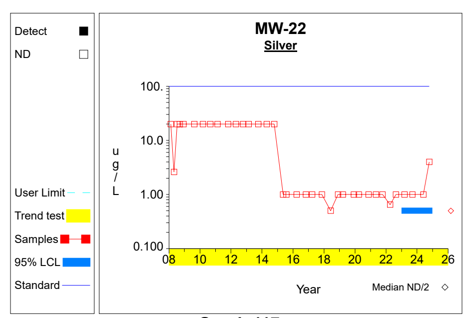
Graph 114



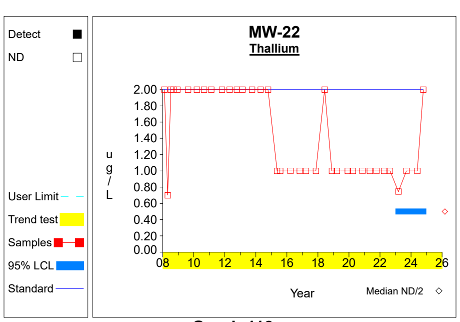
Graph 115



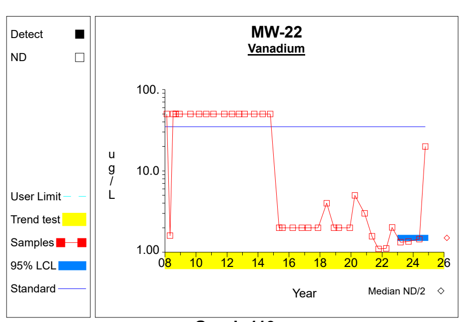
Graph 116



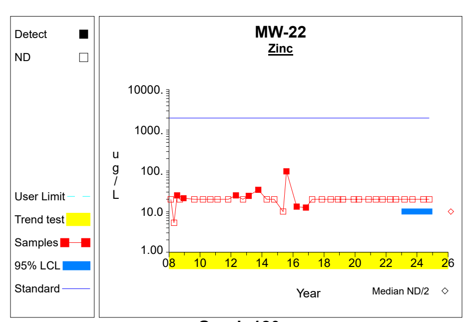
Graph 117



Graph 118

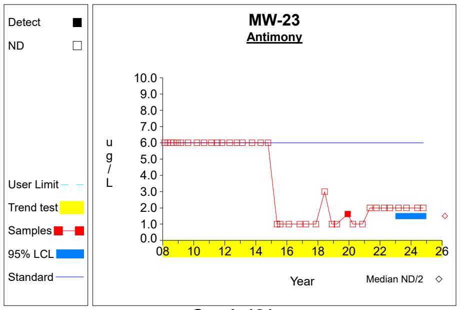


Graph 119

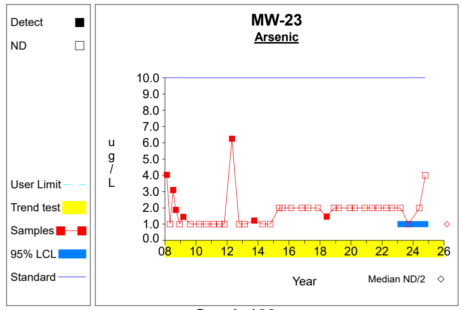


Graph 120

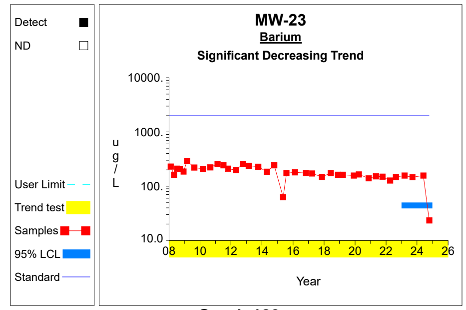
Confidence Limits (Assessment)



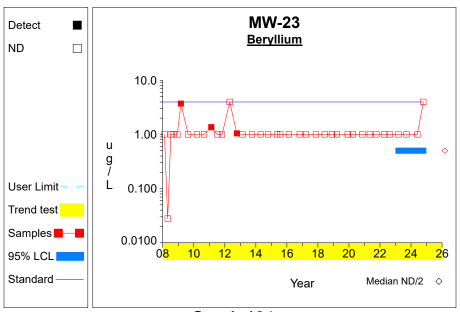
Graph 121



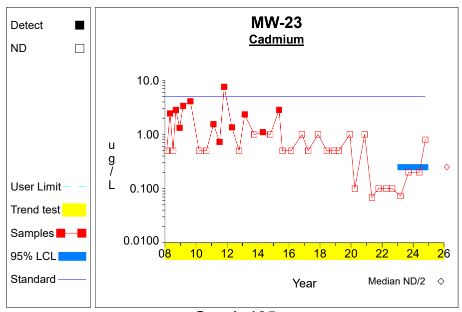
Graph 122



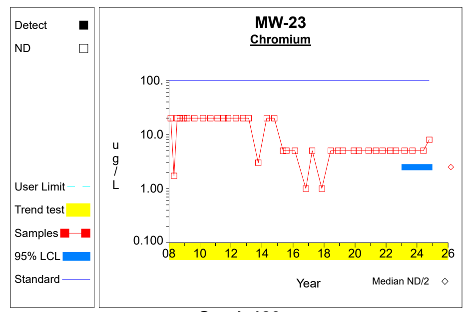
Graph 123



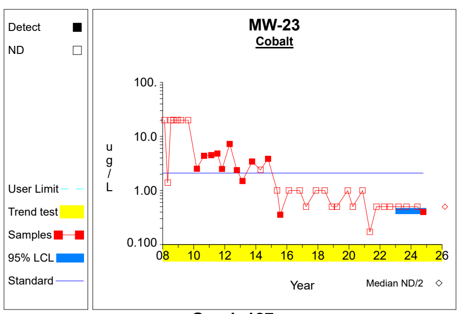
Graph 124



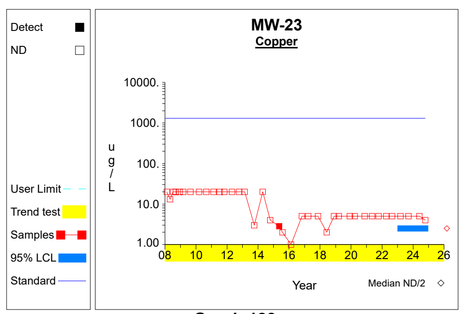
Graph 125



Graph 126



Graph 127



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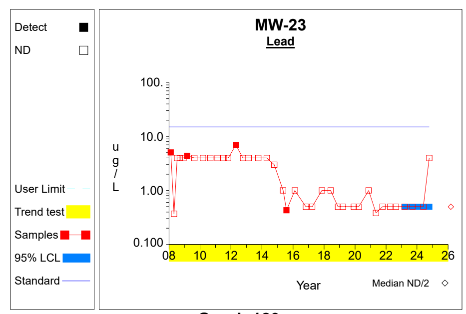

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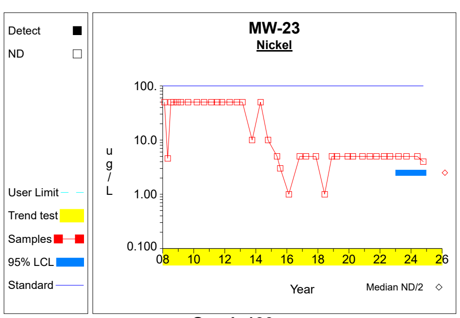

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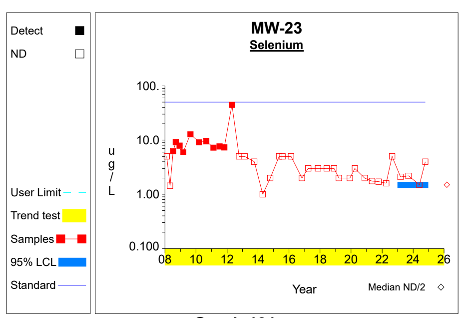

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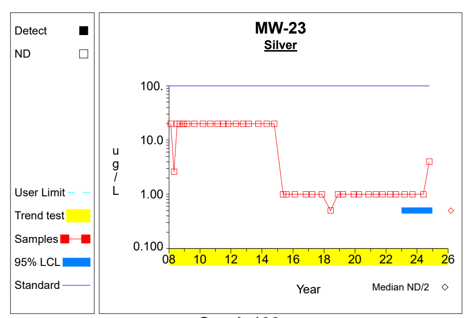

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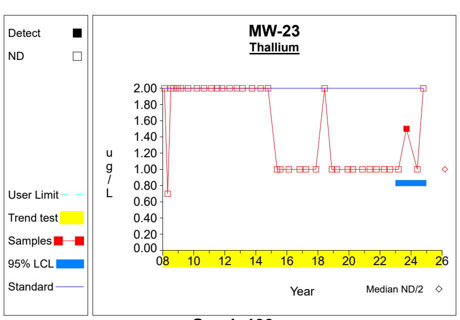
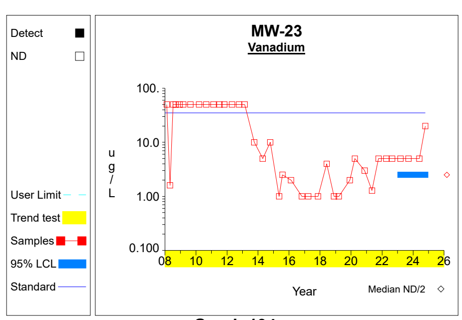
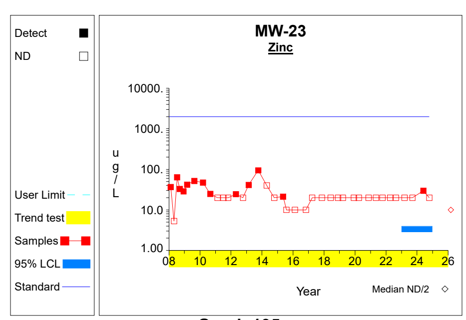


Graph 133

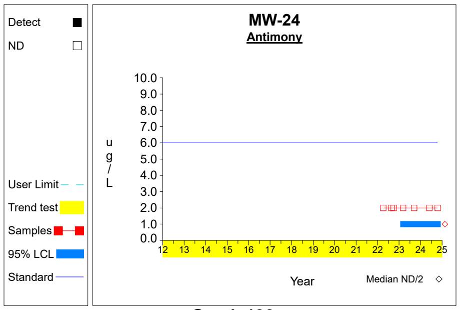


Graph 134

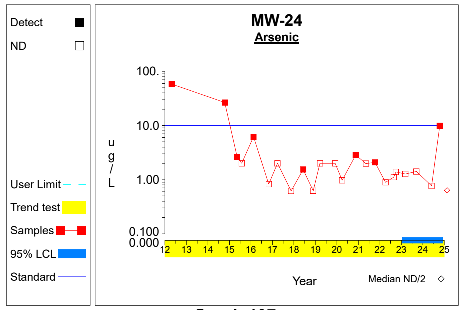


Graph 135

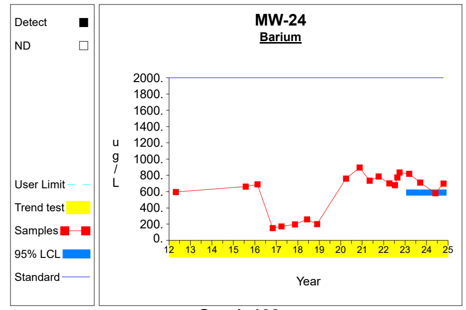
Confidence Limits (Assessment)



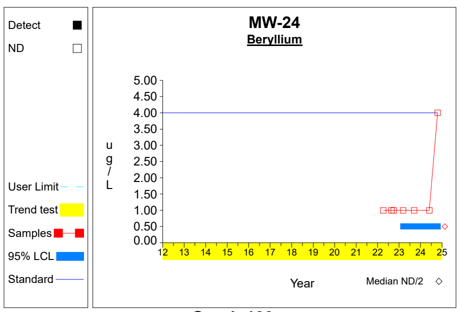
Graph 136



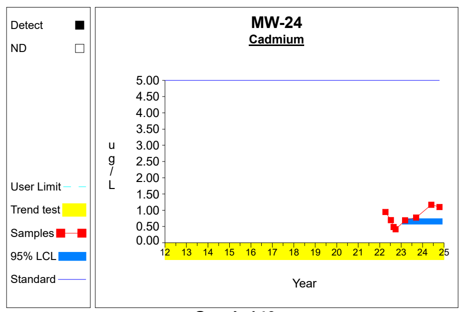
Graph 137



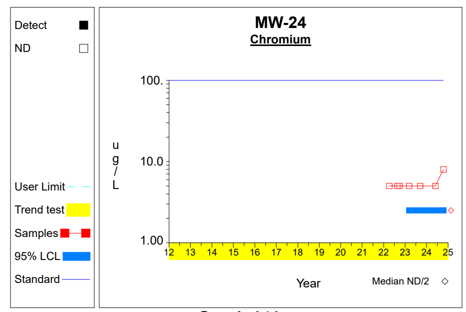
Graph 138



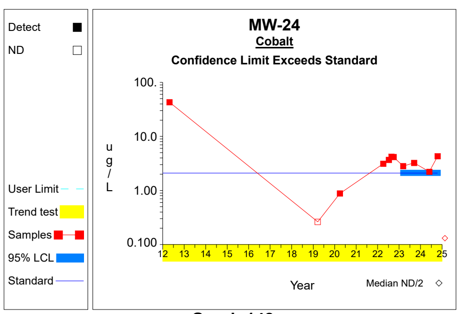
Graph 139



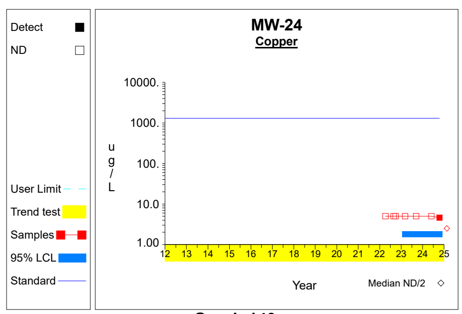
Graph 140



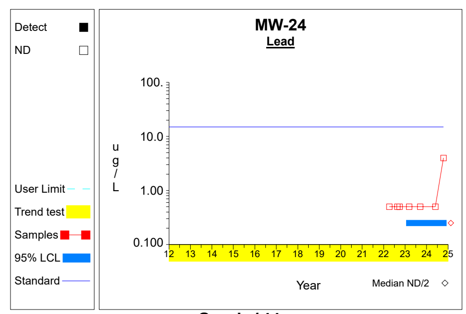
Graph 141



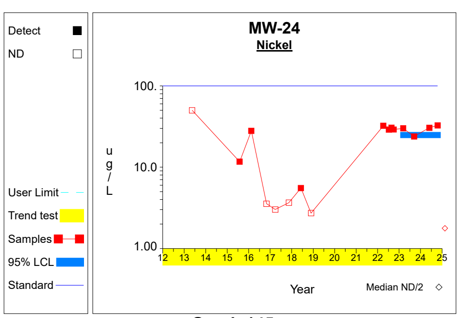
Graph 142



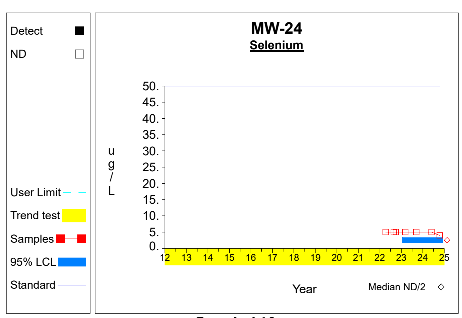
Graph 143



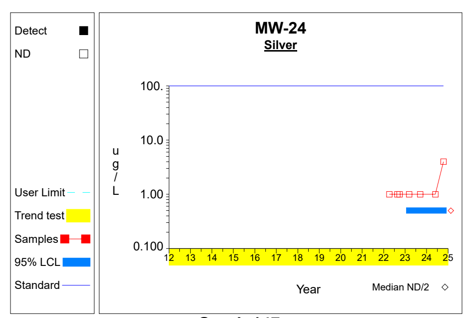
Graph 144



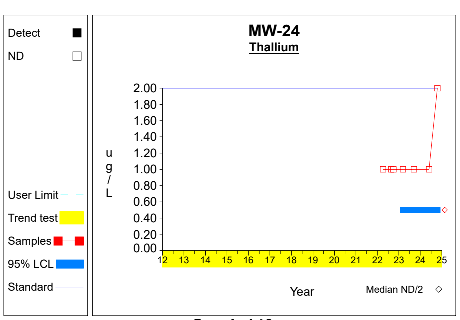
Graph 145



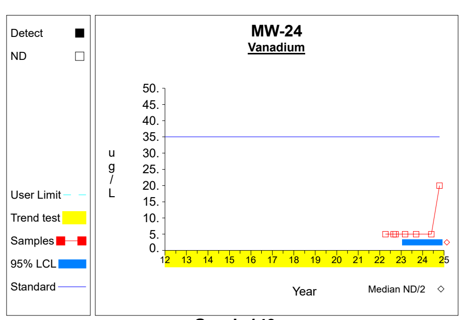
Graph 146



Graph 147



Graph 148



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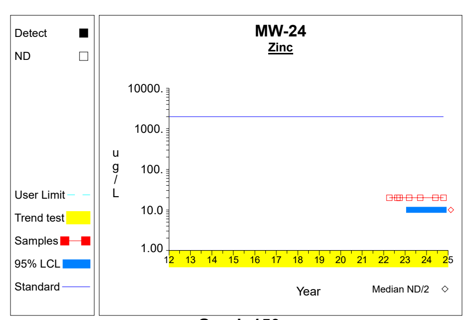
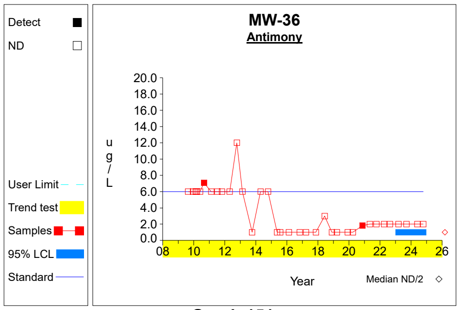
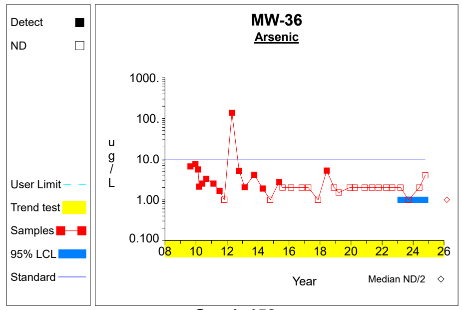


Graph 150

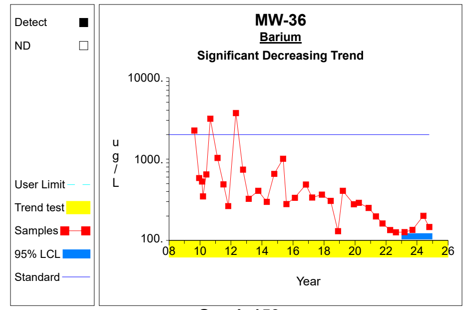
Confidence Limits (Assessment)



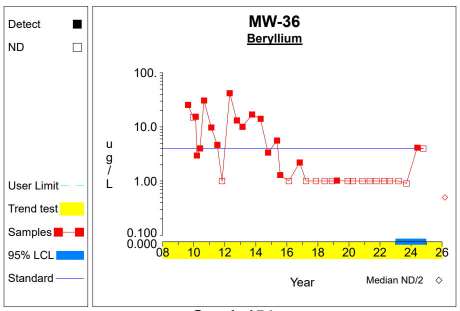
Graph 151



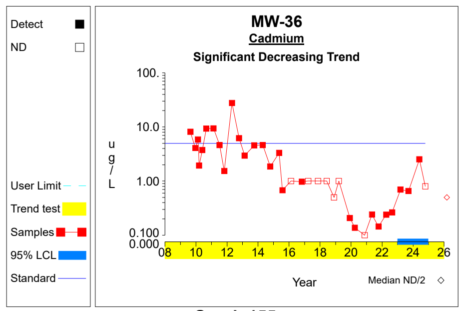
Graph 152



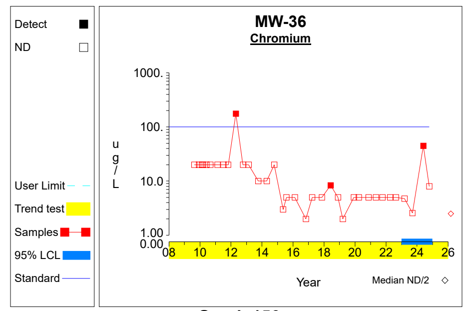
Graph 153



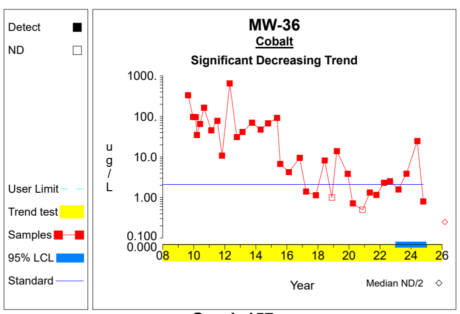
Graph 154



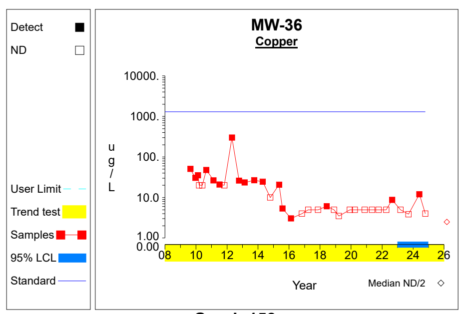
Graph 155



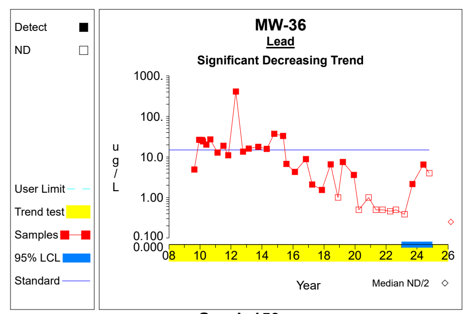
Graph 156



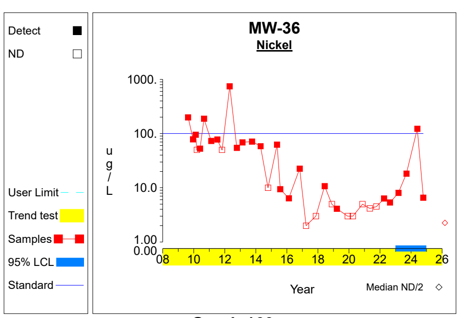
Graph 157



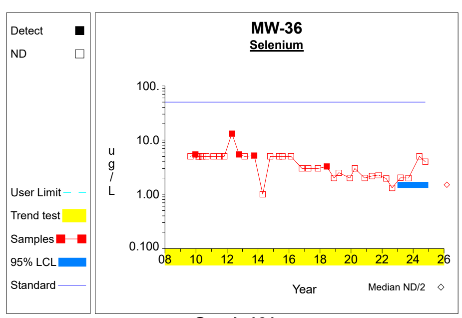
Graph 158



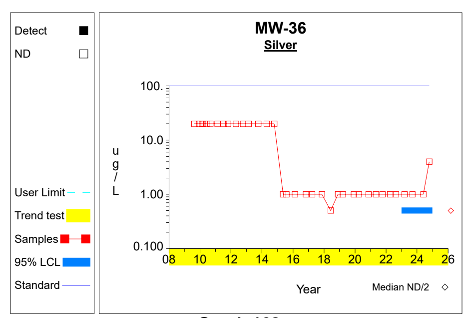
Graph 159



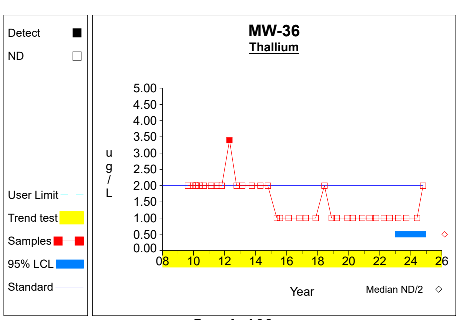
Graph 160



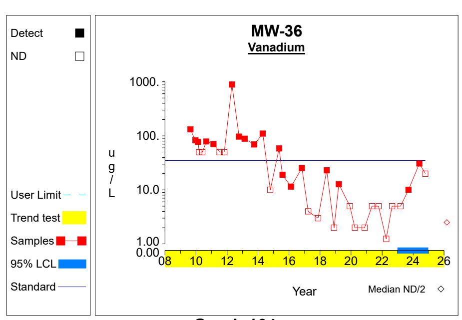
Graph 161



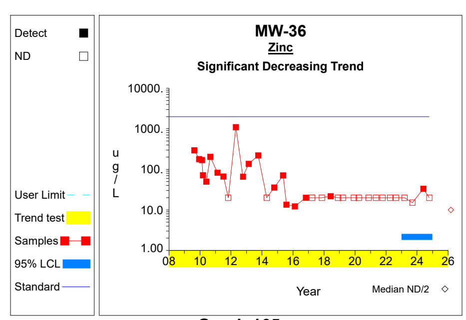
Graph 162



Graph 163

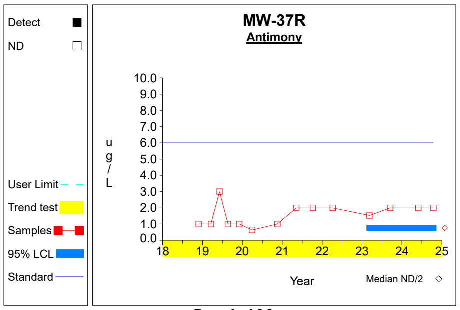


Graph 164

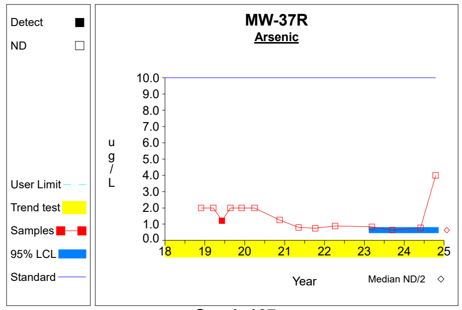


Graph 165

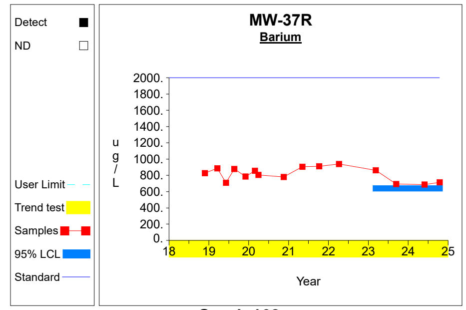
Confidence Limits (Assessment)



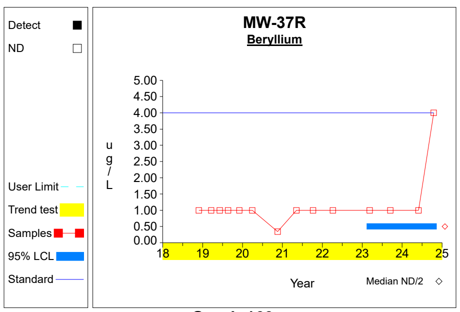
Graph 166



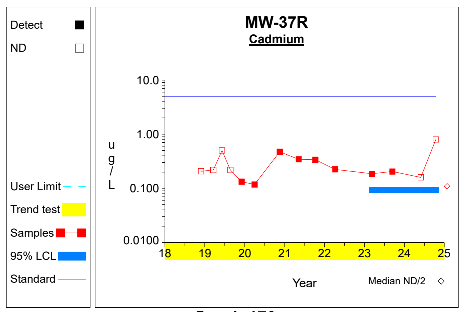
Graph 167



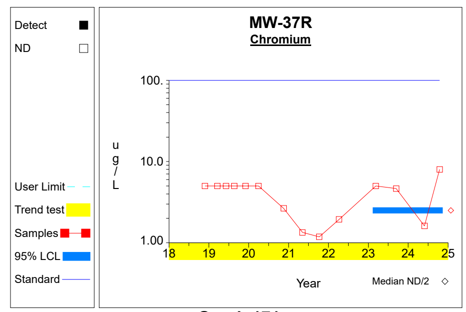
Graph 168



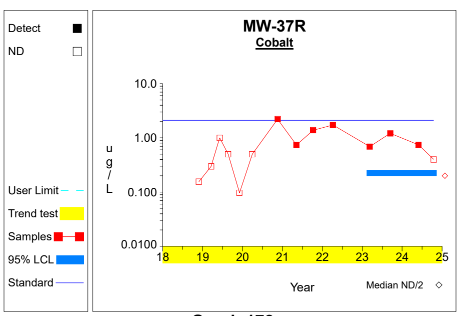
Graph 169



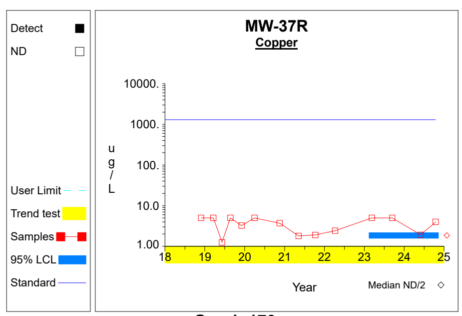
Graph 170



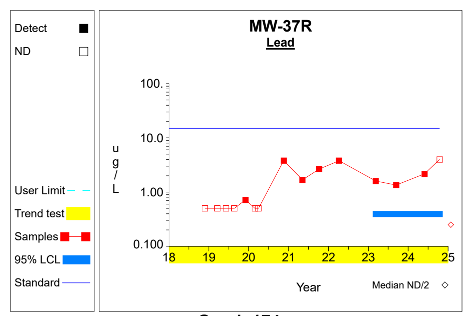
Graph 171



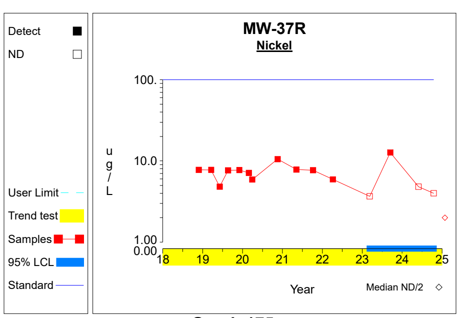
Graph 172



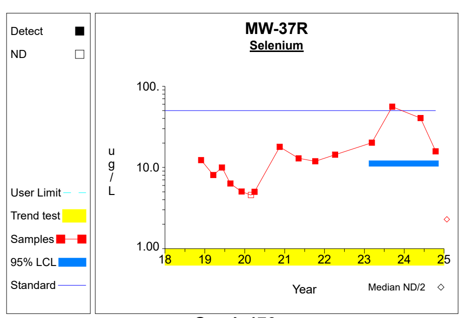
Graph 173



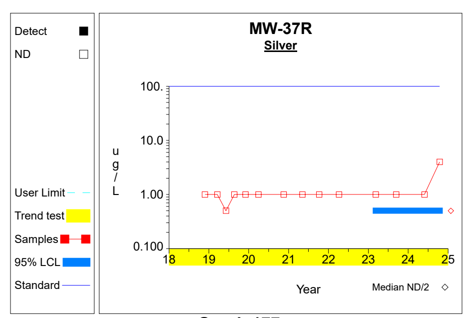
Graph 174



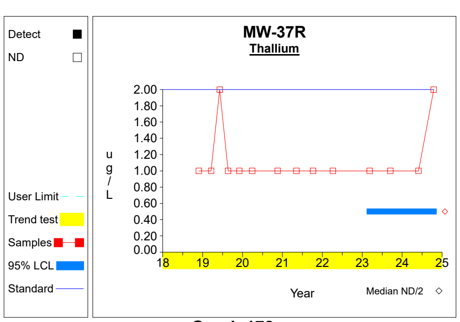
Graph 175



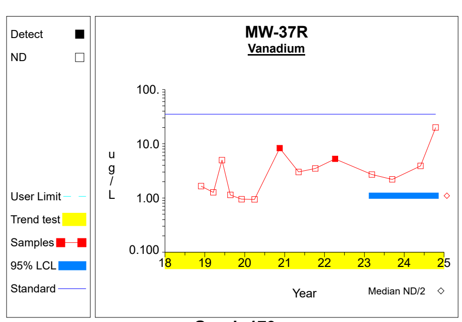
Graph 176



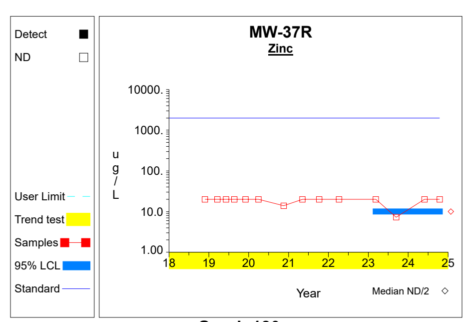
Graph 177



Graph 178

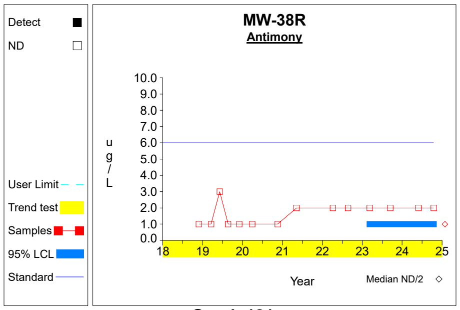


Graph 179

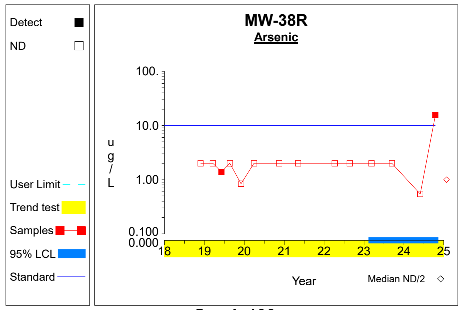


Graph 180

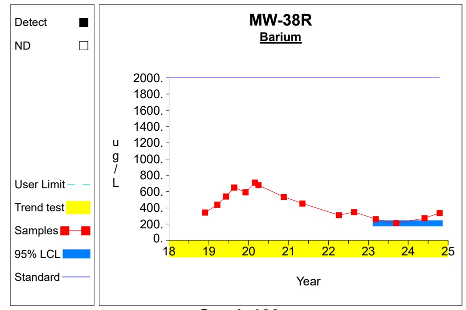
Confidence Limits (Assessment)



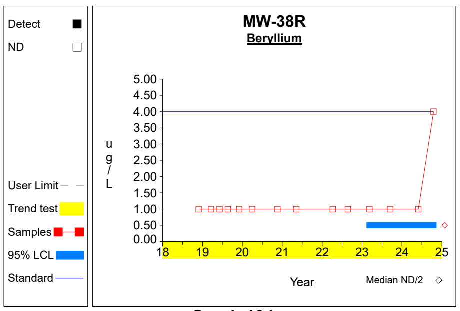
Graph 181



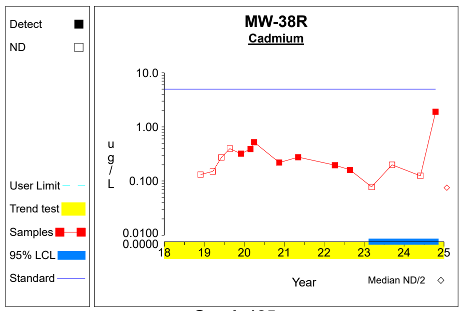
Graph 182



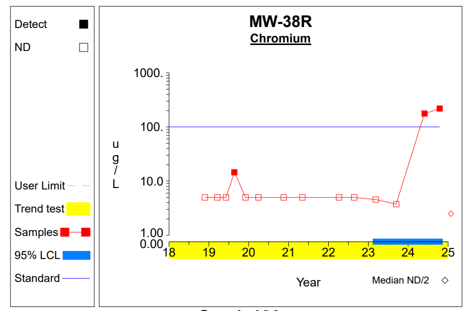
Graph 183



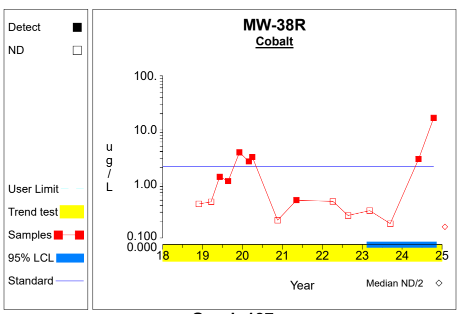
Graph 184



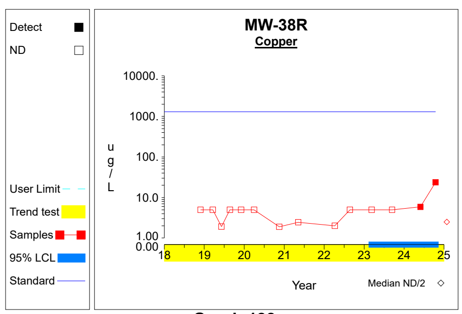
Graph 185



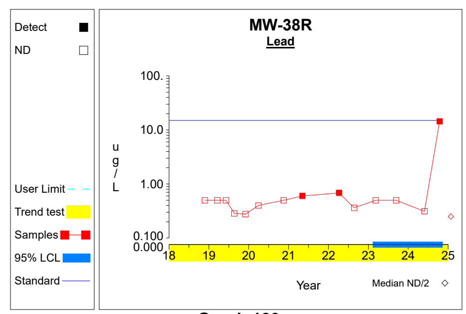
Graph 186



Graph 187



Graph 188



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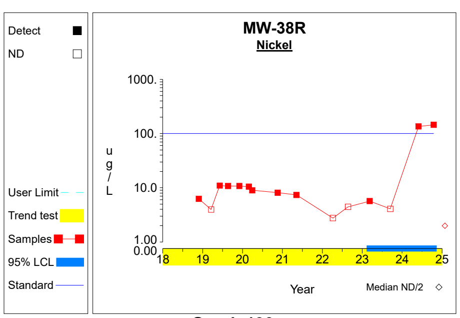

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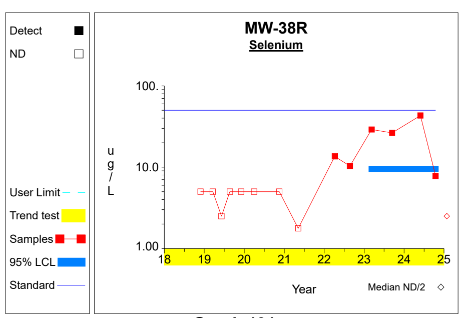

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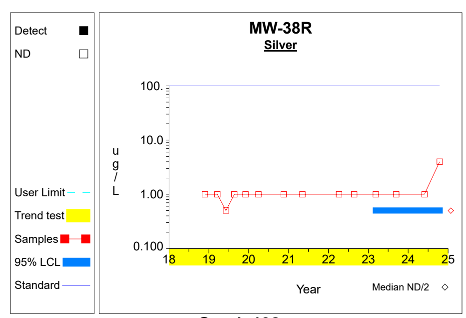

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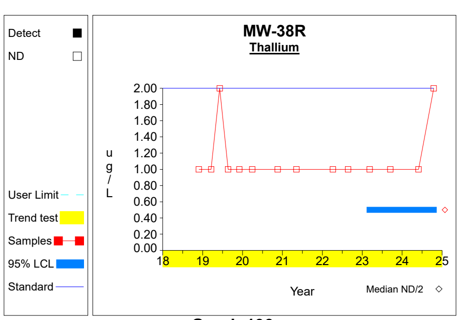

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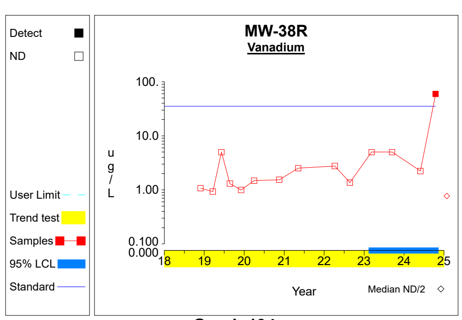

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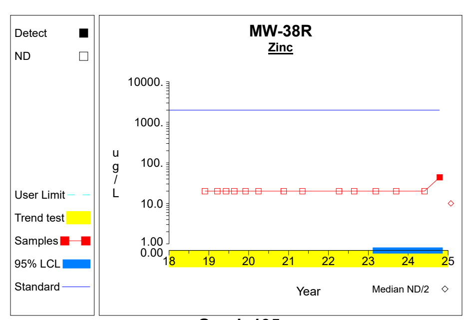
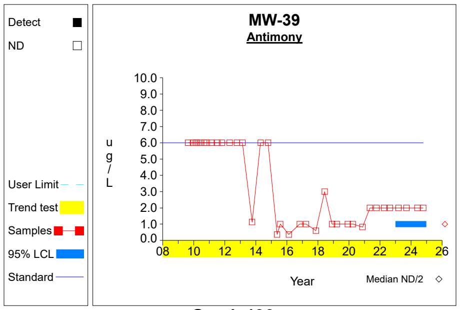


Graph 195

Confidence Limits (Assessment)



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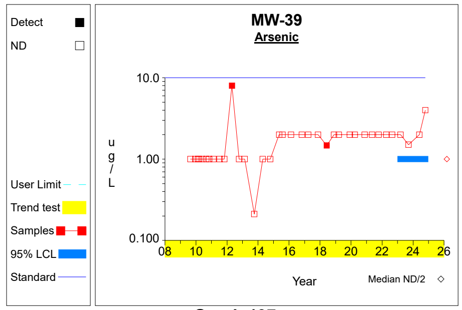

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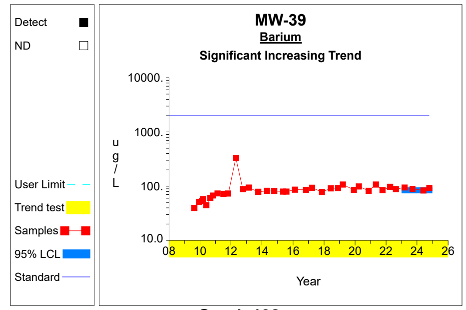

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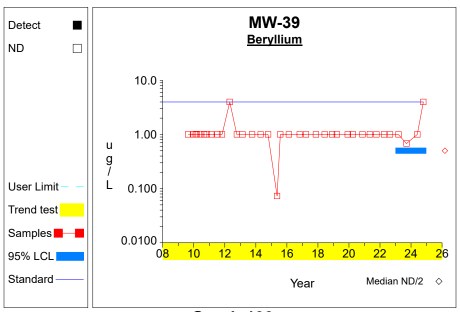

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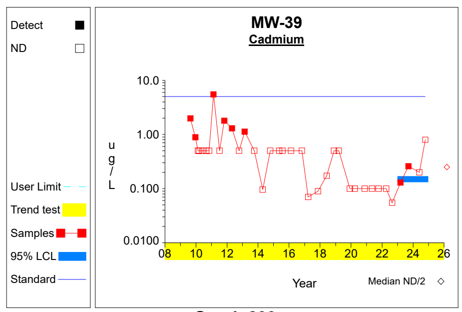

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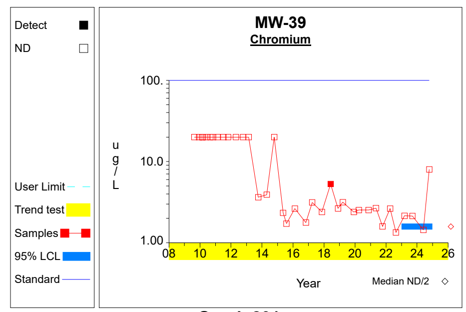

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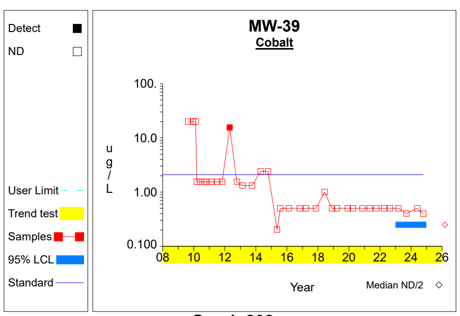

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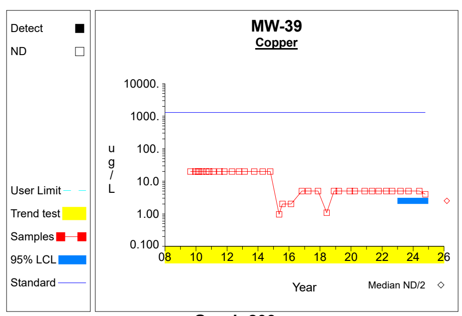

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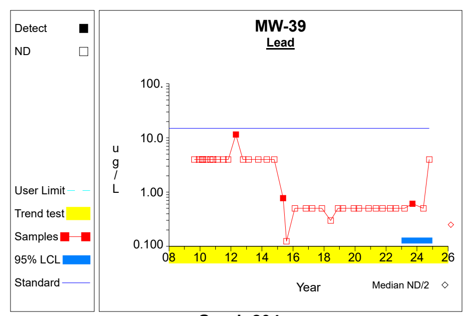

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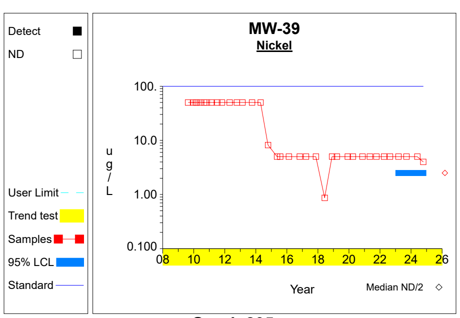

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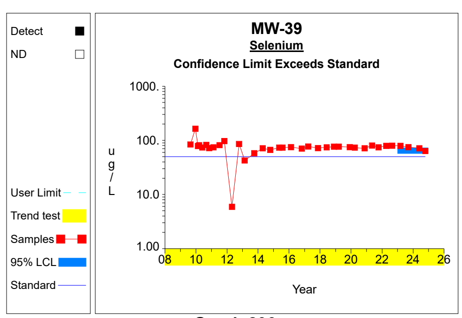

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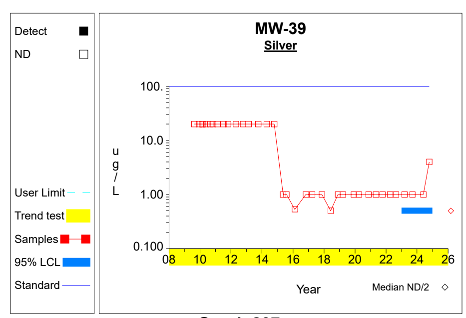

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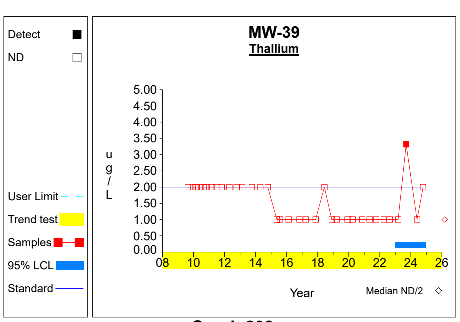

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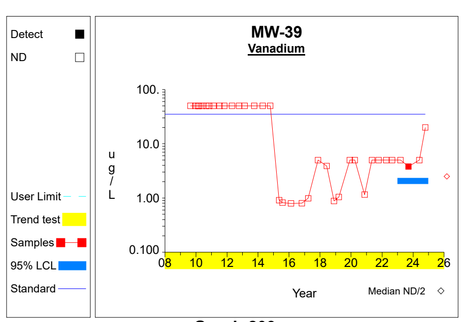
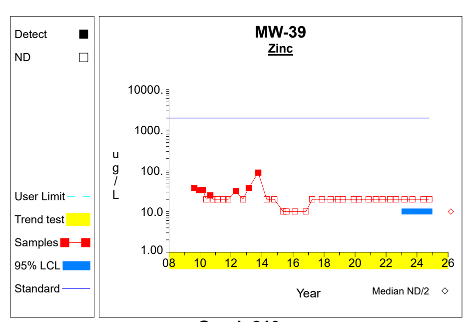
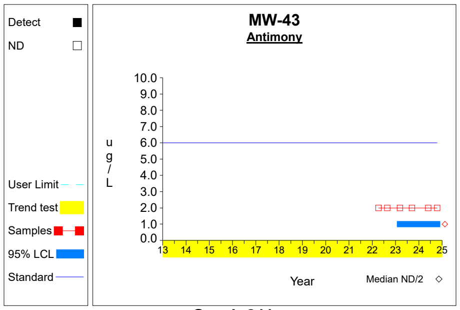


Graph 209



Graph 210

Confidence Limits (Assessment)



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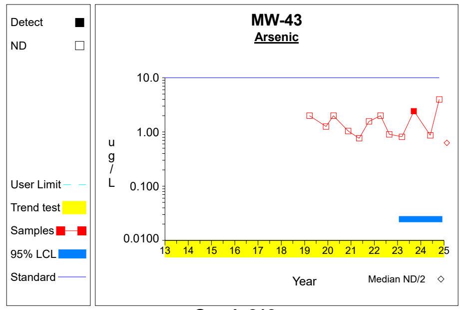

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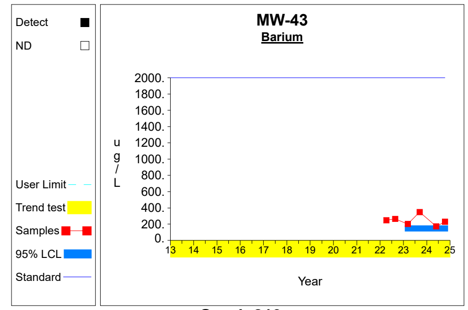
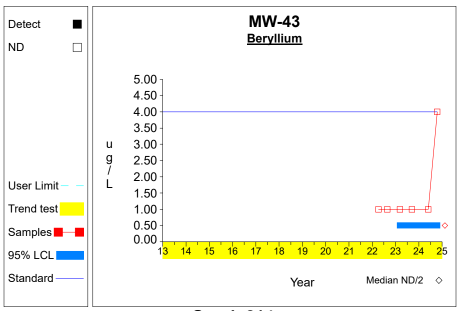


Graph 213



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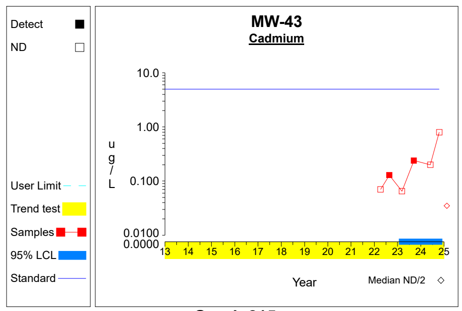

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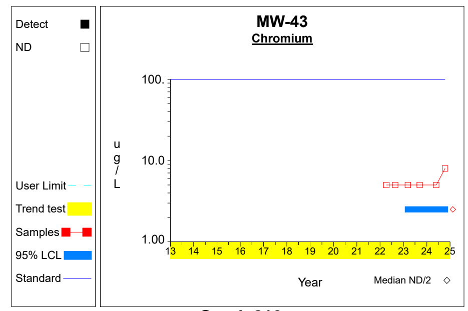

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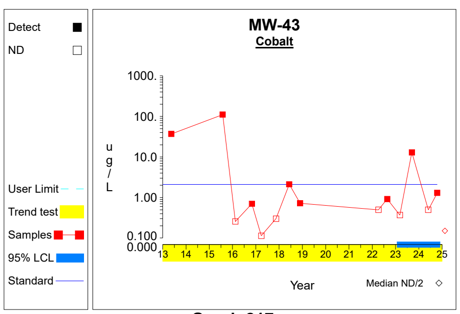

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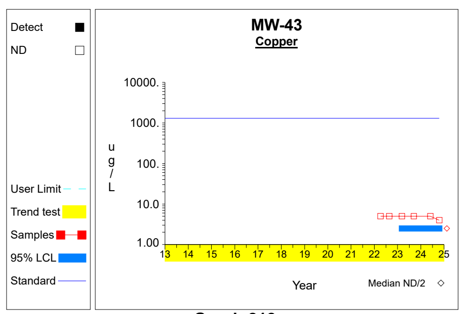

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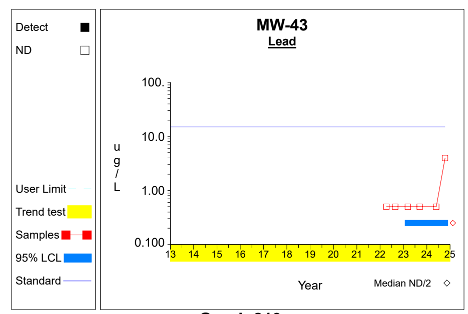

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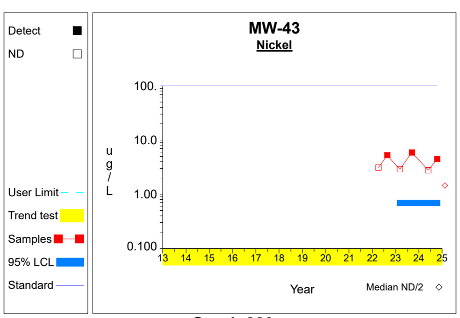

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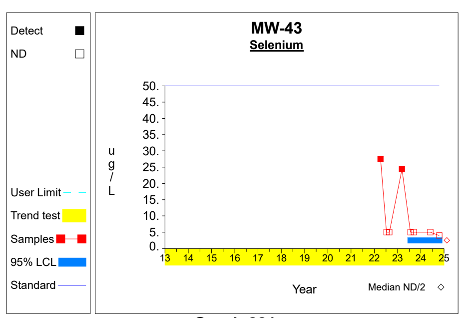

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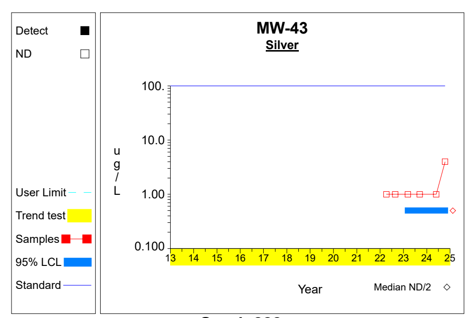

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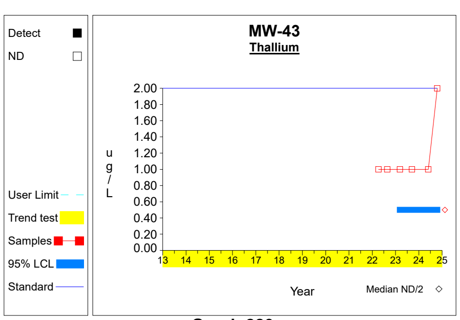

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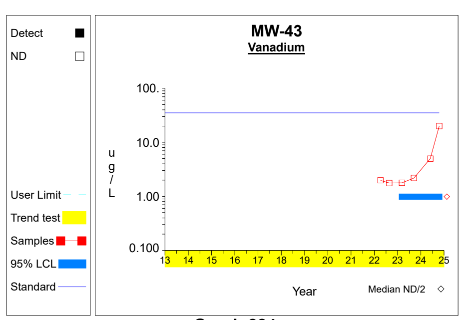

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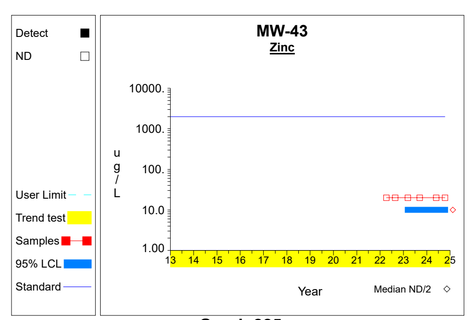
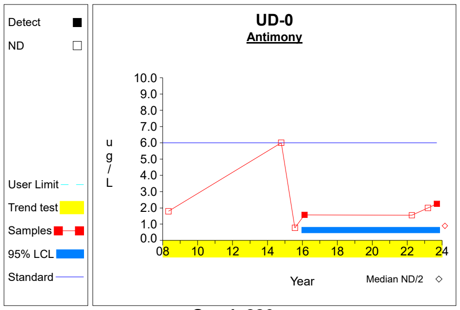


Graph 225

Confidence Limits (Assessment)



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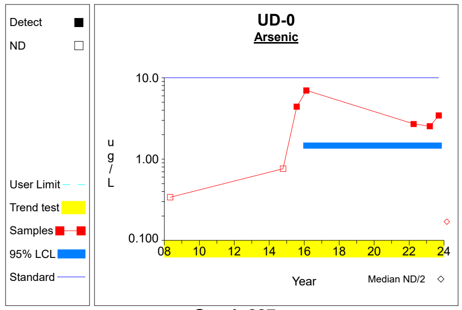

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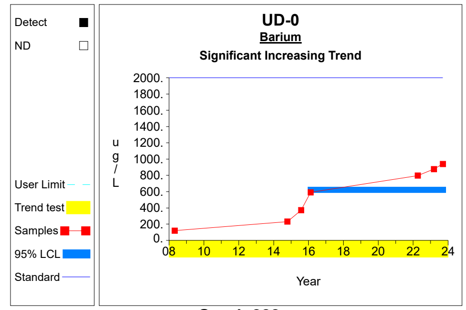

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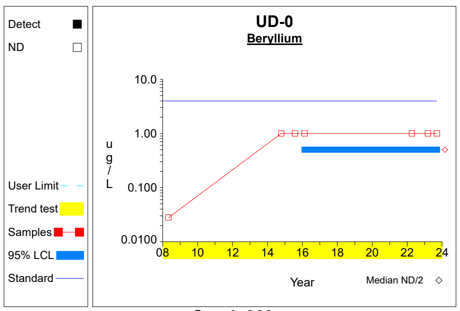

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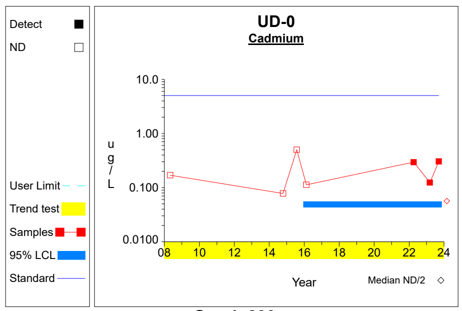

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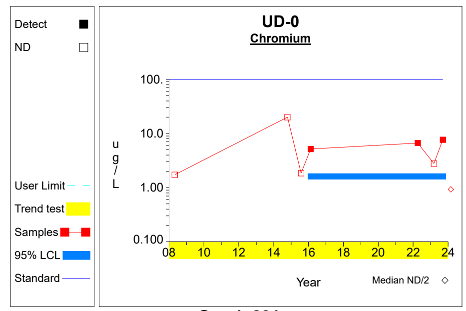

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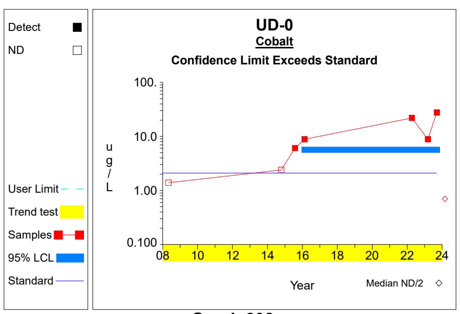

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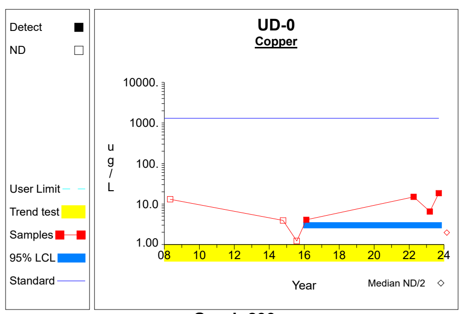

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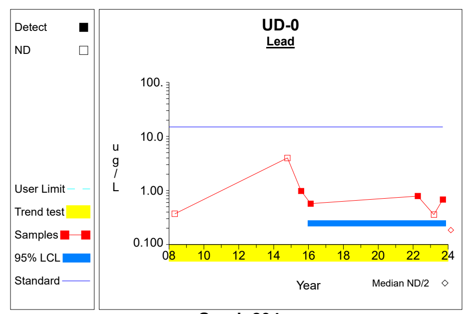

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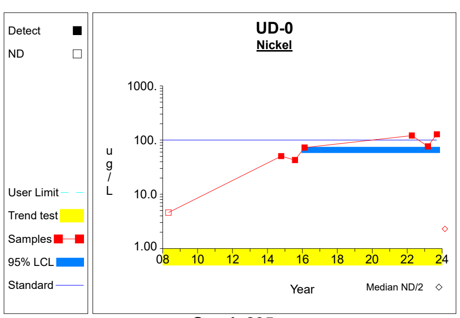

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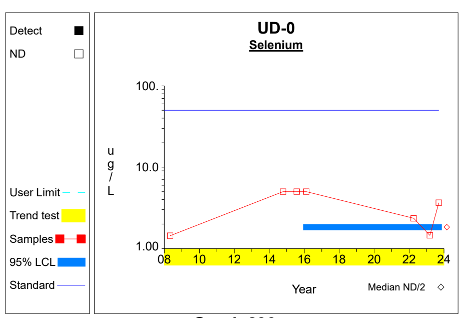

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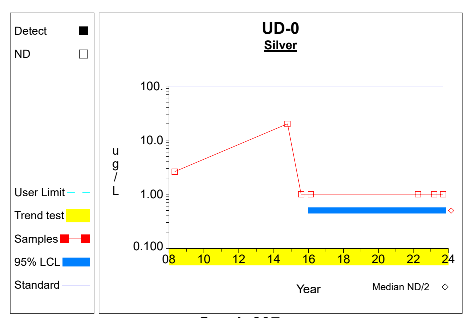

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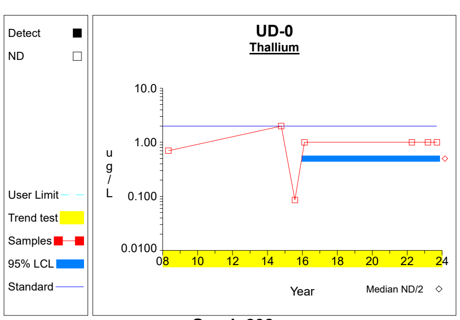

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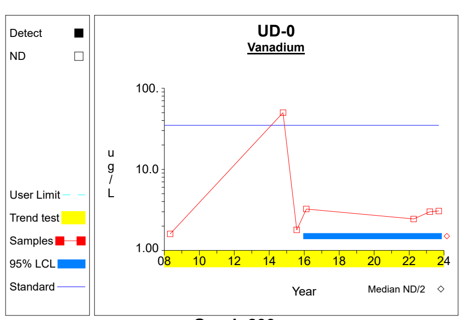

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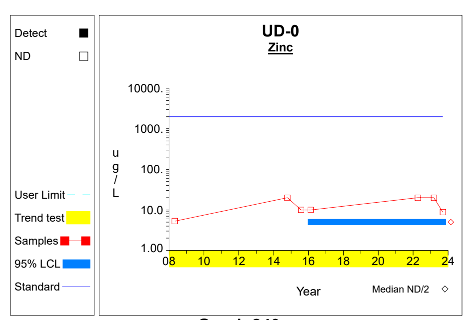
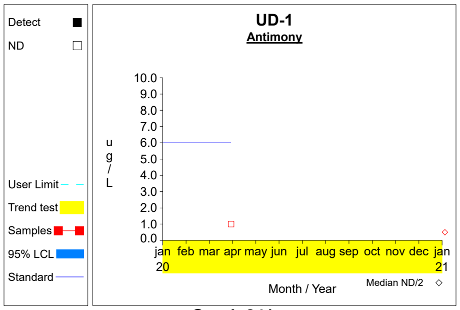


Graph 240

Prepared by: Otter Creek Environmental

Confidence Limits (Assessment)



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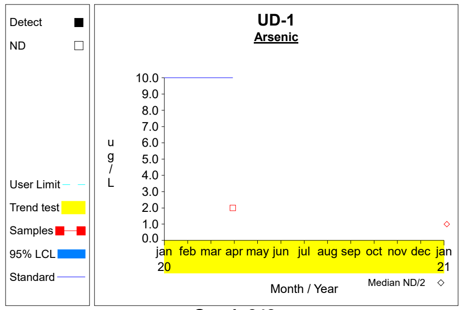

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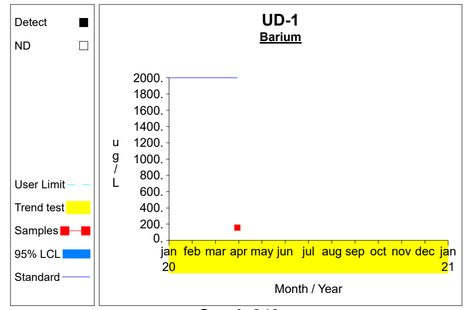

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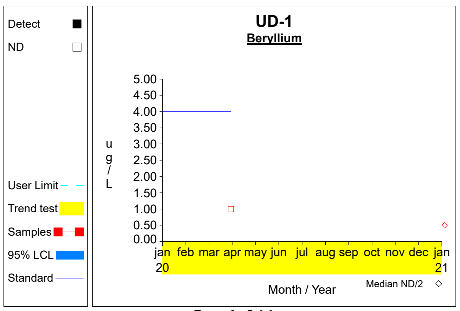

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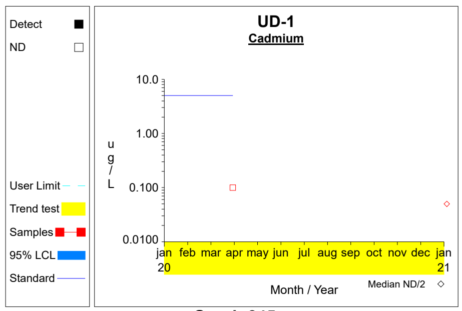

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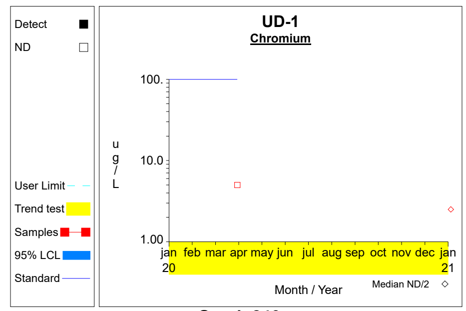

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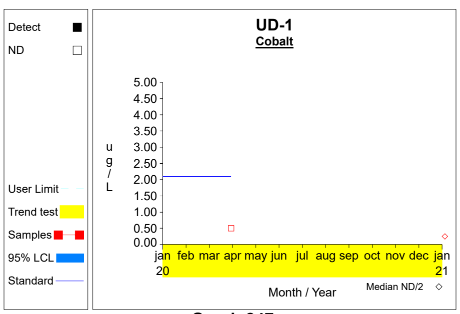

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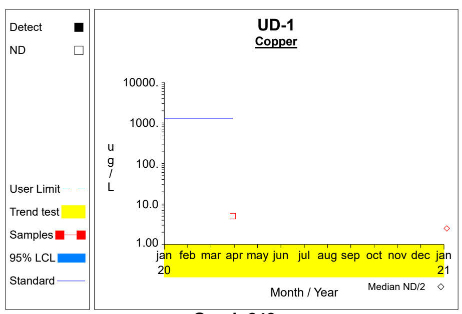

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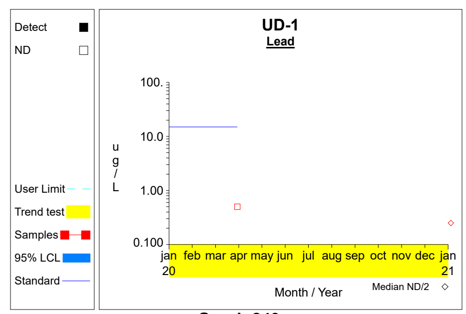

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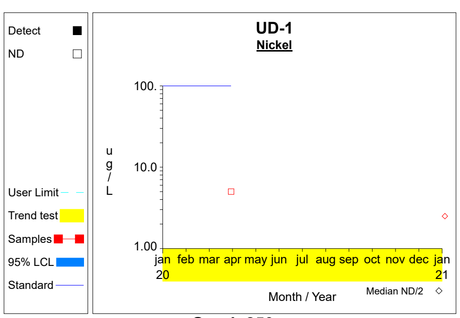

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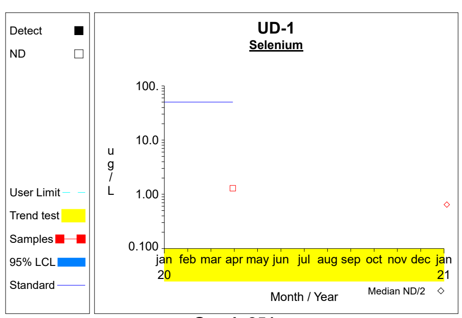

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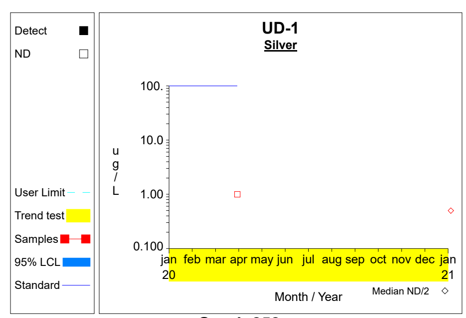

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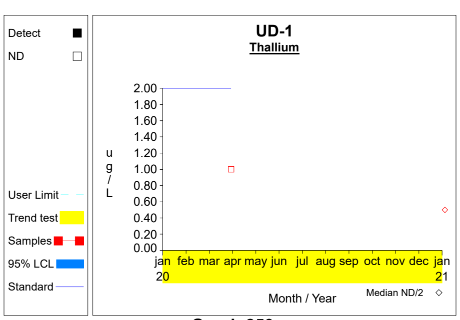

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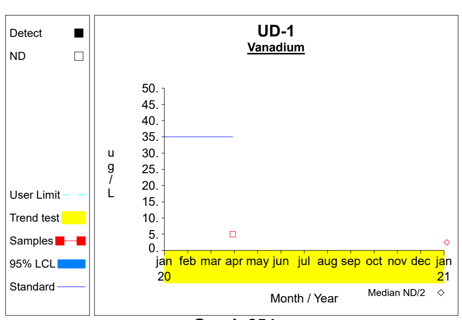
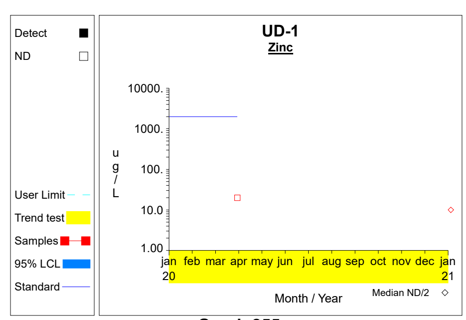


Graph 254



Graph 255

Appendix D

Laboratory Reports for Reporting Period

With Chain of Custody

Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

1HJ1342

Project Description

Cass Co SLF

For:

Todd Whipple

HLW Engineering

204 West Broad St

Story City, IA 50248

Heather Murphy

Customer Relationship Specialist

Friday, November 1, 2024

Please find enclosed the analytical results for the samples you submitted to Microbac Laboratories. Review and compilation of your report was completed by Microbac Laboratories, Inc., Newton. If you have any questions, comments, or require further assistance regarding this report, please contact your service representative listed above.

I certify that all test results meet all of the requirements of the accrediting authority listed within this report. Analytical results are reported on a 'as received' basis unless specified otherwise. Analytical results for solids with units ending in (dry) are reported on a dry weight basis. A statement of uncertainty for each analysis is available upon request. This laboratory report shall not be reproduced, except in full, without the written approval of Microbac Laboratories. The reported results are related only to the samples analyzed as received.

Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

1HJ1342

HLW Engineering

Todd Whipple
204 West Broad St
Story City, IA 50248

Project Name: Cass Co SLF

Project / PO Number: N/A
Received: 10/16/2024
Reported: 11/01/2024

Sample Summary Report

Sample Name	Laboratory ID	Client Matrix	Sample Type	Sample Begin	Sample Taken	Lab Received
MW-15R	1HJ1342-01	Aqueous	GRAB		10/15/24 00:00	10/16/24 10:26
MW-19	1HJ1342-02	Aqueous	GRAB		10/15/24 00:00	10/16/24 10:26
MW-20	1HJ1342-03	Aqueous	GRAB		10/15/24 00:00	10/16/24 10:26
MW-21	1HJ1342-04	Aqueous	GRAB		10/15/24 00:00	10/16/24 10:26
MW-24	1HJ1342-05	Aqueous	GRAB		10/15/24 00:00	10/16/24 10:26
MW-37R	1HJ1342-06	Aqueous	GRAB		10/15/24 00:00	10/16/24 10:26
MW-38R	1HJ1342-07	Aqueous	GRAB		10/15/24 00:00	10/16/24 10:26
MW-39	1HJ1342-08	Aqueous	GRAB		10/15/24 00:00	10/16/24 10:26
MW-43	1HJ1342-09	Aqueous	GRAB		10/15/24 00:00	10/16/24 10:26
MW-13	1HJ1342-10	Aqueous	GRAB		10/15/24 00:00	10/16/24 10:26
MW-22	1HJ1342-11	Aqueous	GRAB		10/15/24 00:00	10/16/24 10:26
MW-11	1HJ1342-12	Aqueous	GRAB		10/15/24 00:00	10/16/24 10:26
MW-23	1HJ1342-13	Aqueous	GRAB		10/15/24 00:00	10/16/24 10:26
MW-36	1HJ1342-14	Aqueous	GRAB		10/15/24 00:00	10/16/24 10:26
Duplicate	1HJ1342-15	Aqueous	GRAB		10/15/24 00:00	10/16/24 10:26

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CERTIFICATE OF ANALYSIS

1HJ1342

Analytical Testing Parameters

Client Sample ID: MW-15R
Sample Matrix: Aqueous
Lab Sample ID: 1HJ1342-01 **Collection Date:** 10/15/2024

Determination of Volatile Organic Compounds	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 8260B								
Chloromethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2052	CSM
Vinyl Chloride	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2052	CSM
Bromomethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2052	CSM
Chloroethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2052	CSM
Trichlorofluoromethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2052	CSM
1,1-Dichloroethylene	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2052	CSM
Acetone	<10.0	10.0	ug/L	1		10/21/24 0000	10/21/24 2052	CSM
Methyl Iodide	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2052	CSM
Carbon Disulfide	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2052	CSM
Methylene Chloride	<5.0	5.0	ug/L	1		10/21/24 0000	10/21/24 2052	CSM
Acrylonitrile	<5.0	5.0	ug/L	1		10/21/24 0000	10/21/24 2052	CSM
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2052	CSM
1,1-Dichloroethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2052	CSM
Vinyl Acetate	<5.0	5.0	ug/L	1		10/21/24 0000	10/21/24 2052	CSM
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2052	CSM
2-Butanone (MEK)	<10.0	10.0	ug/L	1		10/21/24 0000	10/21/24 2052	CSM
Bromochloromethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2052	CSM
Chloroform	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2052	CSM
1,1,1-Trichloroethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2052	CSM
Carbon Tetrachloride	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2052	CSM
Benzene	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2052	CSM
1,2-Dichloroethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2052	CSM
Trichloroethylene	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2052	CSM
1,2-Dichloropropane	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2052	CSM
Dibromomethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2052	CSM
Bromodichloromethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2052	CSM
cis-1,3-Dichloropropene	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2052	CSM
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L	1		10/21/24 0000	10/21/24 2052	CSM
Toluene	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2052	CSM
trans-1,3-Dichloropropene	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2052	CSM
1,1,2-Trichloroethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2052	CSM
Tetrachloroethylene	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2052	CSM
2-Hexanone (MBK)	<5.0	5.0	ug/L	1		10/21/24 0000	10/21/24 2052	CSM
Dibromochloromethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2052	CSM
1,2-Dibromoethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2052	CSM
Chlorobenzene	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2052	CSM
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2052	CSM
Ethylbenzene	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2052	CSM
Xylenes, total	<2.0	2.0	ug/L	1		10/21/24 0000	10/21/24 2052	CSM
Styrene	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2052	CSM

Client Sample ID:	MW-15R		
Sample Matrix:	Aqueous		
Lab Sample ID:	1HJ1342-01	**Collection Date:**	10/15/2024

Determination of Volatile Organic Compounds	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
Bromoform	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2052	CSM
1,2,3-Trichloropropane	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2052	CSM
trans-1,4-Dichloro-2-butene	<5.0	5.0	ug/L	1		10/21/24 0000	10/21/24 2052	CSM
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2052	CSM
1,4-Dichlorobenzene	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2052	CSM
1,2-Dichlorobenzene	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2052	CSM
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L	1		10/21/24 0000	10/21/24 2052	CSM
Surrogate: Dibromofluoromethane	104	Limit: 75-136	% Rec	1		10/21/24 0000	10/21/24 2052	CSM
Surrogate: Dibromofluoromethane	104	Limit: 57-134	% Rec	1		10/21/24 0000	10/21/24 2052	CSM
Surrogate: 1,2-Dichloroethane-d4	108	Limit: 53-140	% Rec	1		10/21/24 0000	10/21/24 2052	CSM
Surrogate: 1,2-Dichloroethane-d4	108	Limit: 61-142	% Rec	1		10/21/24 0000	10/21/24 2052	CSM
Surrogate: Toluene-d8	96.3	Limit: 82-121	% Rec	1		10/21/24 0000	10/21/24 2052	CSM
Surrogate: Toluene-d8	96.3	Limit: 86-114	% Rec	1		10/21/24 0000	10/21/24 2052	CSM
Surrogate: 4-Bromofluorobenzene	98.4	Limit: 78-121	% Rec	1		10/21/24 0000	10/21/24 2052	CSM
Surrogate: 4-Bromofluorobenzene	98.4	Limit: 80-116	% Rec	1		10/21/24 0000	10/21/24 2052	CSM

Determination of Total Metals	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A								
Antimony, total	<0.0020	0.0020	mg/L	4		10/22/24 0806	10/22/24 2029	RVV
Arsenic, total	**0.0091**	0.0040	mg/L	4		10/22/24 0806	10/22/24 2029	RVV
Barium, total	**0.376**	0.0040	mg/L	4		10/22/24 0806	10/22/24 2029	RVV
Beryllium, total	<0.0040	0.0040	mg/L	4		10/22/24 0806	10/22/24 2029	RVV
Cadmium, total	<0.0008	0.0008	mg/L	4		10/22/24 0806	10/22/24 2029	RVV
Chromium, total	<0.0080	0.0080	mg/L	4		10/22/24 0806	10/22/24 2029	RVV
Cobalt, total	**0.0042**	0.0004	mg/L	4		10/22/24 0806	10/22/24 2029	RVV
Copper, total	<0.0040	0.0040	mg/L	4		10/22/24 0806	10/22/24 2029	RVV
Lead, total	<0.0040	0.0040	mg/L	4		10/22/24 0806	10/22/24 2029	RVV
Nickel, total	**0.0063**	0.0040	mg/L	4		10/22/24 0806	10/22/24 2029	RVV
Selenium, total	<0.0040	0.0040	mg/L	4		10/22/24 0806	10/22/24 2029	RVV
Silver, total	<0.0040	0.0040	mg/L	4		10/22/24 0806	10/22/24 2029	RVV
Thallium, total	<0.0020	0.0020	mg/L	4		10/22/24 0806	10/22/24 2029	RVV
Vanadium, total	<0.0200	0.0200	mg/L	4		10/22/24 0806	10/22/24 2029	RVV
Zinc, total	<0.0200	0.0200	mg/L	4		10/22/24 0806	10/22/24 2029	RVV

Client Sample ID:	MW-19		
Sample Matrix:	Aqueous		
Lab Sample ID:	1HJ1342-02	**Collection Date:**	10/15/2024

Determination of Volatile Organic Compounds	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 8260B								
Chloromethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2115	CSM
Vinyl Chloride	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2115	CSM
Bromomethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2115	CSM
Chloroethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2115	CSM
Trichlorofluoromethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2115	CSM
1,1-Dichloroethylene	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2115	CSM
Acetone	<10.0	10.0	ug/L	1		10/21/24 0000	10/21/24 2115	CSM
Methyl Iodide	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2115	CSM
Carbon Disulfide	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2115	CSM
Methylene Chloride	<5.0	5.0	ug/L	1		10/21/24 0000	10/21/24 2115	CSM
Acrylonitrile	<5.0	5.0	ug/L	1		10/21/24 0000	10/21/24 2115	CSM
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2115	CSM
1,1-Dichloroethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2115	CSM
Vinyl Acetate	<5.0	5.0	ug/L	1		10/21/24 0000	10/21/24 2115	CSM
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2115	CSM
2-Butanone (MEK)	<10.0	10.0	ug/L	1		10/21/24 0000	10/21/24 2115	CSM
Bromochloromethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2115	CSM
Chloroform	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2115	CSM
1,1,1-Trichloroethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2115	CSM
Carbon Tetrachloride	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2115	CSM
Benzene	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2115	CSM
1,2-Dichloroethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2115	CSM
Trichloroethylene	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2115	CSM
1,2-Dichloropropane	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2115	CSM
Dibromomethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2115	CSM
Bromodichloromethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2115	CSM
cis-1,3-Dichloropropene	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2115	CSM
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L	1		10/21/24 0000	10/21/24 2115	CSM
Toluene	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2115	CSM
trans-1,3-Dichloropropene	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2115	CSM
1,1,2-Trichloroethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2115	CSM
Tetrachloroethylene	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2115	CSM
2-Hexanone (MBK)	<5.0	5.0	ug/L	1		10/21/24 0000	10/21/24 2115	CSM
Dibromochloromethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2115	CSM
1,2-Dibromoethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2115	CSM
Chlorobenzene	**1.2**	1.0	ug/L	1		10/21/24 0000	10/21/24 2115	CSM
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2115	CSM
Ethylbenzene	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2115	CSM
Xylenes, total	<2.0	2.0	ug/L	1		10/21/24 0000	10/21/24 2115	CSM
Styrene	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2115	CSM
Bromoform	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2115	CSM
1,2,3-Trichloropropane	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2115	CSM

Client Sample ID:	MW-19		
Sample Matrix:	Aqueous		
Lab Sample ID:	1HJ1342-02	**Collection Date:**	10/15/2024

Determination of Volatile Organic Compounds	**Result**	**RL**	**Units**	**DF**	**Note**	**Prepared**	**Analyzed**	**Analyst**
trans-1,4-Dichloro-2-butene	<5.0	5.0	ug/L	1		10/21/24 0000	10/21/24 2115	CSM
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2115	CSM
1,4-Dichlorobenzene	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2115	CSM
1,2-Dichlorobenzene	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2115	CSM
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L	1		10/21/24 0000	10/21/24 2115	CSM
Surrogate: Dibromofluoromethane	104	Limit: 75-136	% Rec	1		10/21/24 0000	10/21/24 2115	CSM
Surrogate: Dibromofluoromethane	104	Limit: 57-134	% Rec	1		10/21/24 0000	10/21/24 2115	CSM
Surrogate: 1,2-Dichloroethane-d4	108	Limit: 61-142	% Rec	1		10/21/24 0000	10/21/24 2115	CSM
Surrogate: 1,2-Dichloroethane-d4	108	Limit: 53-140	% Rec	1		10/21/24 0000	10/21/24 2115	CSM
Surrogate: Toluene-d8	95.9	Limit: 82-121	% Rec	1		10/21/24 0000	10/21/24 2115	CSM
Surrogate: Toluene-d8	95.9	Limit: 86-114	% Rec	1		10/21/24 0000	10/21/24 2115	CSM
Surrogate: 4-Bromofluorobenzene	98.3	Limit: 80-116	% Rec	1		10/21/24 0000	10/21/24 2115	CSM
Surrogate: 4-Bromofluorobenzene	98.3	Limit: 78-121	% Rec	1		10/21/24 0000	10/21/24 2115	CSM

Determination of Organochlorine Insecticides & Metabolites	**Result**	**RL**	**Units**	**DF**	**Note**	**Prepared**	**Analyzed**	**Analyst**
EPA 3510C/EPA 8081								
Gamma-Chlordane	<0.05	0.05	ug/L	1		10/21/24 1056	10/28/24 1824	EPP
Endosulfan I	<0.05	0.05	ug/L	1		10/21/24 1056	10/28/24 1824	EPP
Surrogate: Tetrachloro-m-xylene	79.7	Limit: 40-116	% Rec	1		10/21/24 1056	10/28/24 1824	EPP

Determination of Inorganic Anions	**Result**	**RL**	**Units**	**DF**	**Note**	**Prepared**	**Analyzed**	**Analyst**
300.0								
Sulfate	**14.3**	5.0	mg/L	5		10/24/24 0000	10/24/24 2216	MID

Determination of Total Metals	**Result**	**RL**	**Units**	**DF**	**Note**	**Prepared**	**Analyzed**	**Analyst**
EPA 3005A/EPA 6020A								
Antimony, total	<0.0020	0.0020	mg/L	4		10/22/24 0806	10/22/24 2106	RVV
Arsenic, total	<0.0040	0.0040	mg/L	4		10/22/24 0806	10/22/24 2106	RVV
Barium, total	**0.966**	0.0040	mg/L	4		10/22/24 0806	10/22/24 2106	RVV
Beryllium, total	<0.0040	0.0040	mg/L	4		10/22/24 0806	10/22/24 2106	RVV
Cadmium, total	<0.0008	0.0008	mg/L	4		10/22/24 0806	10/22/24 2106	RVV
Chromium, total	<0.0080	0.0080	mg/L	4		10/22/24 0806	10/22/24 2106	RVV
Cobalt, total	**0.0195**	0.0004	mg/L	4		10/22/24 0806	10/22/24 2106	RVV
Copper, total	<0.0040	0.0040	mg/L	4		10/22/24 0806	10/22/24 2106	RVV
Lead, total	<0.0040	0.0040	mg/L	4		10/22/24 0806	10/22/24 2106	RVV
Nickel, total	**0.0557**	0.0040	mg/L	4		10/22/24 0806	10/22/24 2106	RVV
Selenium, total	<0.0040	0.0040	mg/L	4		10/22/24 0806	10/22/24 2106	RVV
Silver, total	<0.0040	0.0040	mg/L	4		10/22/24 0806	10/22/24 2106	RVV
Thallium, total	<0.0020	0.0020	mg/L	4		10/22/24 0806	10/22/24 2106	RVV
Vanadium, total	<0.0200	0.0200	mg/L	4		10/22/24 0806	10/22/24 2106	RVV
Zinc, total	<0.0200	0.0200	mg/L	4		10/22/24 0806	10/22/24 2106	RVV

Client Sample ID:	MW-20
Sample Matrix:	Aqueous
Lab Sample ID:	1HJ1342-03
Collection Date:	10/15/2024

Determination of Volatile Organic Compounds	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 8260B								
Chloromethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2137	CSM
Vinyl Chloride	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2137	CSM
Bromomethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2137	CSM
Chloroethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2137	CSM
Trichlorofluoromethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2137	CSM
1,1-Dichloroethylene	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2137	CSM
Acetone	<10.0	10.0	ug/L	1		10/21/24 0000	10/21/24 2137	CSM
Methyl Iodide	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2137	CSM
Carbon Disulfide	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2137	CSM
Methylene Chloride	<5.0	5.0	ug/L	1		10/21/24 0000	10/21/24 2137	CSM
Acrylonitrile	<5.0	5.0	ug/L	1		10/21/24 0000	10/21/24 2137	CSM
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2137	CSM
1,1-Dichloroethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2137	CSM
Vinyl Acetate	<5.0	5.0	ug/L	1		10/21/24 0000	10/21/24 2137	CSM
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2137	CSM
2-Butanone (MEK)	<10.0	10.0	ug/L	1		10/21/24 0000	10/21/24 2137	CSM
Bromochloromethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2137	CSM
Chloroform	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2137	CSM
1,1,1-Trichloroethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2137	CSM
Carbon Tetrachloride	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2137	CSM
Benzene	**3.0**	1.0	ug/L	1		10/21/24 0000	10/21/24 2137	CSM
1,2-Dichloroethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2137	CSM
Trichloroethylene	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2137	CSM
1,2-Dichloropropane	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2137	CSM
Dibromomethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2137	CSM
Bromodichloromethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2137	CSM
cis-1,3-Dichloropropene	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2137	CSM
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L	1		10/21/24 0000	10/21/24 2137	CSM
Toluene	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2137	CSM
trans-1,3-Dichloropropene	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2137	CSM
1,1,2-Trichloroethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2137	CSM
Tetrachloroethylene	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2137	CSM
2-Hexanone (MBK)	<5.0	5.0	ug/L	1		10/21/24 0000	10/21/24 2137	CSM
Dibromochloromethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2137	CSM
1,2-Dibromoethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2137	CSM
Chlorobenzene	**4.7**	1.0	ug/L	1		10/21/24 0000	10/21/24 2137	CSM
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2137	CSM
Ethylbenzene	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2137	CSM
Xylenes, total	<2.0	2.0	ug/L	1		10/21/24 0000	10/21/24 2137	CSM
Styrene	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2137	CSM
Bromoform	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2137	CSM
1,2,3-Trichloropropane	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2137	CSM

Client Sample ID:	MW-20		
Sample Matrix:	Aqueous		
Lab Sample ID:	1HJ1342-03	**Collection Date:**	10/15/2024

Determination of Volatile Organic Compounds	**Result**	**RL**	**Units**	**DF**	**Note**	**Prepared**	**Analyzed**	**Analyst**
trans-1,4-Dichloro-2-butene	<5.0	5.0	ug/L	1		10/21/24 0000	10/21/24 2137	CSM
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2137	CSM
1,4-Dichlorobenzene	**3.1**	1.0	ug/L	1		10/21/24 0000	10/21/24 2137	CSM
1,2-Dichlorobenzene	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2137	CSM
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L	1		10/21/24 0000	10/21/24 2137	CSM
Surrogate: Dibromofluoromethane	104	Limit: 75-136	% Rec	1		10/21/24 0000	10/21/24 2137	CSM
Surrogate: Dibromofluoromethane	104	Limit: 57-134	% Rec	1		10/21/24 0000	10/21/24 2137	CSM
Surrogate: 1,2-Dichloroethane-d4	109	Limit: 53-140	% Rec	1		10/21/24 0000	10/21/24 2137	CSM
Surrogate: 1,2-Dichloroethane-d4	109	Limit: 61-142	% Rec	1		10/21/24 0000	10/21/24 2137	CSM
Surrogate: Toluene-d8	96.6	Limit: 82-121	% Rec	1		10/21/24 0000	10/21/24 2137	CSM
Surrogate: Toluene-d8	96.6	Limit: 86-114	% Rec	1		10/21/24 0000	10/21/24 2137	CSM
Surrogate: 4-Bromofluorobenzene	98.9	Limit: 78-121	% Rec	1		10/21/24 0000	10/21/24 2137	CSM
Surrogate: 4-Bromofluorobenzene	98.9	Limit: 80-116	% Rec	1		10/21/24 0000	10/21/24 2137	CSM

Determination of Chlorinated Phenoxy Herbicides	**Result**	**RL**	**Units**	**DF**	**Note**	**Prepared**	**Analyzed**	**Analyst**
EPA 8151A								
2,4,5-T	<0.5	0.5	ug/L	1		10/21/24 1608	10/23/24 2249	EPP
Surrogate: 2,5-Dichlorobenzoic Acid	190	Limit: 36-159	% Rec	1	**S1**	10/21/24 1608	10/23/24 2249	EPP

Determination of Organochlorine Insecticides & Metabolites	**Result**	**RL**	**Units**	**DF**	**Note**	**Prepared**	**Analyzed**	**Analyst**
EPA 3510C/EPA 8081								
Gamma-Chlordane	<0.05	0.05	ug/L	1		10/21/24 1056	10/28/24 1836	EPP
Endosulfan I	**0.13**	0.05	ug/L	1		10/21/24 1056	10/28/24 1836	EPP
Surrogate: Tetrachloro-m-xylene	74.1	Limit: 40-116	% Rec	1		10/21/24 1056	10/28/24 1836	EPP

Determination of Inorganic Anions	**Result**	**RL**	**Units**	**DF**	**Note**	**Prepared**	**Analyzed**	**Analyst**
300.0								
Sulfate	<1.0	1.0	mg/L	1			10/25/24 1241	MID

Determination of Total Metals	**Result**	**RL**	**Units**	**DF**	**Note**	**Prepared**	**Analyzed**	**Analyst**
EPA 3005A/EPA 6020A								
Antimony, total	<0.0020	0.0020	mg/L	4		10/22/24 0806	10/22/24 2112	RVV
Arsenic, total	**0.0775**	0.0040	mg/L	4		10/22/24 0806	10/22/24 2112	RVV
Barium, total	**2.43**	0.0040	mg/L	4		10/22/24 0806	10/22/24 2112	RVV
Beryllium, total	<0.0040	0.0040	mg/L	4		10/22/24 0806	10/22/24 2112	RVV
Cadmium, total	<0.0008	0.0008	mg/L	4		10/22/24 0806	10/22/24 2112	RVV
Chromium, total	<0.0080	0.0080	mg/L	4		10/22/24 0806	10/22/24 2112	RVV
Cobalt, total	**0.0099**	0.0004	mg/L	4		10/22/24 0806	10/22/24 2112	RVV
Copper, total	<0.0040	0.0040	mg/L	4		10/22/24 0806	10/22/24 2112	RVV
Lead, total	<0.0040	0.0040	mg/L	4		10/22/24 0806	10/22/24 2112	RVV
Nickel, total	**0.0508**	0.0040	mg/L	4		10/22/24 0806	10/22/24 2112	RVV
Selenium, total	<0.0040	0.0040	mg/L	4		10/22/24 0806	10/22/24 2112	RVV

Client Sample ID: MW-20
Sample Matrix: Aqueous
Lab Sample ID: 1HJ1342-03 **Collection Date:** 10/15/2024

Determination of Total Metals	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
Silver, total	<0.0040	0.0040	mg/L	4		10/22/24 0806	10/22/24 2112	RVV
Thallium, total	<0.0020	0.0020	mg/L	4		10/22/24 0806	10/22/24 2112	RVV
Vanadium, total	<0.0200	0.0200	mg/L	4		10/22/24 0806	10/22/24 2112	RVV
Zinc, total	<0.0200	0.0200	mg/L	4		10/22/24 0806	10/22/24 2112	RVV

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1HJ1342

Client Sample ID:	MW-21		
Sample Matrix:	Aqueous		
Lab Sample ID:	1HJ1342-04	**Collection Date:**	10/15/2024

Determination of Volatile Organic Compounds	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 8260B								
Chloromethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2200	CSM
Vinyl Chloride	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2200	CSM
Bromomethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2200	CSM
Chloroethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2200	CSM
Trichlorofluoromethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2200	CSM
1,1-Dichloroethylene	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2200	CSM
Acetone	<10.0	10.0	ug/L	1		10/21/24 0000	10/21/24 2200	CSM
Methyl Iodide	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2200	CSM
Carbon Disulfide	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2200	CSM
Methylene Chloride	<5.0	5.0	ug/L	1		10/21/24 0000	10/21/24 2200	CSM
Acrylonitrile	<5.0	5.0	ug/L	1		10/21/24 0000	10/21/24 2200	CSM
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2200	CSM
1,1-Dichloroethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2200	CSM
Vinyl Acetate	<5.0	5.0	ug/L	1		10/21/24 0000	10/21/24 2200	CSM
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2200	CSM
2-Butanone (MEK)	<10.0	10.0	ug/L	1		10/21/24 0000	10/21/24 2200	CSM
Bromochloromethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2200	CSM
Chloroform	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2200	CSM
1,1,1-Trichloroethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2200	CSM
Carbon Tetrachloride	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2200	CSM
Benzene	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2200	CSM
1,2-Dichloroethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2200	CSM
Trichloroethylene	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2200	CSM
1,2-Dichloropropane	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2200	CSM
Dibromomethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2200	CSM
Bromodichloromethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2200	CSM
cis-1,3-Dichloropropene	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2200	CSM
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L	1		10/21/24 0000	10/21/24 2200	CSM
Toluene	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2200	CSM
trans-1,3-Dichloropropene	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2200	CSM
1,1,2-Trichloroethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2200	CSM
Tetrachloroethylene	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2200	CSM
2-Hexanone (MBK)	<5.0	5.0	ug/L	1		10/21/24 0000	10/21/24 2200	CSM
Dibromochloromethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2200	CSM
1,2-Dibromoethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2200	CSM
Chlorobenzene	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2200	CSM
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2200	CSM
Ethylbenzene	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2200	CSM
Xylenes, total	<2.0	2.0	ug/L	1		10/21/24 0000	10/21/24 2200	CSM
Styrene	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2200	CSM
Bromoform	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2200	CSM
1,2,3-Trichloropropane	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2200	CSM

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1HJ1342

Client Sample ID: MW-21
Sample Matrix: Aqueous
Lab Sample ID: 1HJ1342-04 **Collection Date:** 10/15/2024

Determination of Volatile Organic Compounds	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
trans-1,4-Dichloro-2-butene	<5.0	5.0	ug/L	1		10/21/24 0000	10/21/24 2200	CSM
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2200	CSM
1,4-Dichlorobenzene	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2200	CSM
1,2-Dichlorobenzene	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2200	CSM
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L	1		10/21/24 0000	10/21/24 2200	CSM
Surrogate: Dibromofluoromethane	105	Limit: 57-134	% Rec	1		10/21/24 0000	10/21/24 2200	CSM
Surrogate: Dibromofluoromethane	105	Limit: 75-136	% Rec	1		10/21/24 0000	10/21/24 2200	CSM
Surrogate: 1,2-Dichloroethane-d4	110	Limit: 53-140	% Rec	1		10/21/24 0000	10/21/24 2200	CSM
Surrogate: 1,2-Dichloroethane-d4	110	Limit: 61-142	% Rec	1		10/21/24 0000	10/21/24 2200	CSM
Surrogate: Toluene-d8	95.1	Limit: 86-114	% Rec	1		10/21/24 0000	10/21/24 2200	CSM
Surrogate: Toluene-d8	95.1	Limit: 82-121	% Rec	1		10/21/24 0000	10/21/24 2200	CSM
Surrogate: 4-Bromofluorobenzene	98.2	Limit: 78-121	% Rec	1		10/21/24 0000	10/21/24 2200	CSM
Surrogate: 4-Bromofluorobenzene	98.2	Limit: 80-116	% Rec	1		10/21/24 0000	10/21/24 2200	CSM

Determination of Inorganic Anions	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
300.0								
Sulfate	**18.1**	5.0	mg/L	5		10/24/24 0000	10/24/24 2234	MID

Determination of Total Metals	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A								
Antimony, total	<0.0020	0.0020	mg/L	4		10/22/24 0806	10/22/24 2118	RVV
Arsenic, total	**0.0067**	0.0040	mg/L	4		10/22/24 0806	10/22/24 2118	RVV
Barium, total	**1.17**	0.0040	mg/L	4		10/22/24 0806	10/22/24 2118	RVV
Beryllium, total	<0.0040	0.0040	mg/L	4		10/22/24 0806	10/22/24 2118	RVV
Cadmium, total	<0.0008	0.0008	mg/L	4		10/22/24 0806	10/22/24 2118	RVV
Chromium, total	<0.0080	0.0080	mg/L	4		10/22/24 0806	10/22/24 2118	RVV
Cobalt, total	**0.0134**	0.0004	mg/L	4		10/22/24 0806	10/22/24 2118	RVV
Copper, total	**0.0074**	0.0040	mg/L	4		10/22/24 0806	10/22/24 2118	RVV
Lead, total	<0.0040	0.0040	mg/L	4		10/22/24 0806	10/22/24 2118	RVV
Nickel, total	**0.0272**	0.0040	mg/L	4		10/22/24 0806	10/22/24 2118	RVV
Selenium, total	<0.0040	0.0040	mg/L	4		10/22/24 0806	10/22/24 2118	RVV
Silver, total	<0.0040	0.0040	mg/L	4		10/22/24 0806	10/22/24 2118	RVV
Thallium, total	<0.0020	0.0020	mg/L	4		10/22/24 0806	10/22/24 2118	RVV
Vanadium, total	<0.0200	0.0200	mg/L	4		10/22/24 0806	10/22/24 2118	RVV
Zinc, total	**0.0281**	0.0200	mg/L	4		10/22/24 0806	10/22/24 2118	RVV

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1HJ1342

Client Sample ID:	MW-24		
Sample Matrix:	Aqueous		
Lab Sample ID:	1HJ1342-05	**Collection Date:**	10/15/2024

Determination of Volatile Organic Compounds	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 8260B								
Chloromethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2222	CSM
Vinyl Chloride	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2222	CSM
Bromomethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2222	CSM
Chloroethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2222	CSM
Trichlorofluoromethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2222	CSM
1,1-Dichloroethylene	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2222	CSM
Acetone	<10.0	10.0	ug/L	1		10/21/24 0000	10/21/24 2222	CSM
Methyl Iodide	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2222	CSM
Carbon Disulfide	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2222	CSM
Methylene Chloride	<5.0	5.0	ug/L	1		10/21/24 0000	10/21/24 2222	CSM
Acrylonitrile	<5.0	5.0	ug/L	1		10/21/24 0000	10/21/24 2222	CSM
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2222	CSM
1,1-Dichloroethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2222	CSM
Vinyl Acetate	<5.0	5.0	ug/L	1		10/21/24 0000	10/21/24 2222	CSM
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2222	CSM
2-Butanone (MEK)	<10.0	10.0	ug/L	1		10/21/24 0000	10/21/24 2222	CSM
Bromochloromethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2222	CSM
Chloroform	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2222	CSM
1,1,1-Trichloroethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2222	CSM
Carbon Tetrachloride	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2222	CSM
Benzene	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2222	CSM
1,2-Dichloroethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2222	CSM
Trichloroethylene	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2222	CSM
1,2-Dichloropropane	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2222	CSM
Dibromomethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2222	CSM
Bromodichloromethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2222	CSM
cis-1,3-Dichloropropene	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2222	CSM
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L	1		10/21/24 0000	10/21/24 2222	CSM
Toluene	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2222	CSM
trans-1,3-Dichloropropene	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2222	CSM
1,1,2-Trichloroethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2222	CSM
Tetrachloroethylene	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2222	CSM
2-Hexanone (MBK)	<5.0	5.0	ug/L	1		10/21/24 0000	10/21/24 2222	CSM
Dibromochloromethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2222	CSM
1,2-Dibromoethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2222	CSM
Chlorobenzene	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2222	CSM
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2222	CSM
Ethylbenzene	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2222	CSM
Xylenes, total	<2.0	2.0	ug/L	1		10/21/24 0000	10/21/24 2222	CSM
Styrene	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2222	CSM
Bromoform	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2222	CSM
1,2,3-Trichloropropane	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2222	CSM

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1HJ1342

Client Sample ID:	MW-24		
Sample Matrix:	Aqueous		
Lab Sample ID:	1HJ1342-05	**Collection Date:**	10/15/2024

Determination of Volatile Organic Compounds	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
trans-1,4-Dichloro-2-butene	<5.0	5.0	ug/L	1		10/21/24 0000	10/21/24 2222	CSM
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2222	CSM
1,4-Dichlorobenzene	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2222	CSM
1,2-Dichlorobenzene	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2222	CSM
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L	1		10/21/24 0000	10/21/24 2222	CSM
Surrogate: Dibromofluoromethane	103	Limit: 75-136	% Rec	1		10/21/24 0000	10/21/24 2222	CSM
Surrogate: Dibromofluoromethane	103	Limit: 57-134	% Rec	1		10/21/24 0000	10/21/24 2222	CSM
Surrogate: 1,2-Dichloroethane-d4	109	Limit: 53-140	% Rec	1		10/21/24 0000	10/21/24 2222	CSM
Surrogate: 1,2-Dichloroethane-d4	109	Limit: 61-142	% Rec	1		10/21/24 0000	10/21/24 2222	CSM
Surrogate: Toluene-d8	95.6	Limit: 82-121	% Rec	1		10/21/24 0000	10/21/24 2222	CSM
Surrogate: Toluene-d8	95.6	Limit: 86-114	% Rec	1		10/21/24 0000	10/21/24 2222	CSM
Surrogate: 4-Bromofluorobenzene	97.8	Limit: 80-116	% Rec	1		10/21/24 0000	10/21/24 2222	CSM
Surrogate: 4-Bromofluorobenzene	97.8	Limit: 78-121	% Rec	1		10/21/24 0000	10/21/24 2222	CSM

Determination of Total Metals	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A								
Antimony, total	<0.0020	0.0020	mg/L	4		10/22/24 0806	10/22/24 2124	RVV
Arsenic, total	**0.0099**	0.0040	mg/L	4		10/22/24 0806	10/22/24 2124	RVV
Barium, total	**0.700**	0.0040	mg/L	4		10/22/24 0806	10/22/24 2124	RVV
Beryllium, total	<0.0040	0.0040	mg/L	4		10/22/24 0806	10/22/24 2124	RVV
Cadmium, total	**0.0011**	0.0008	mg/L	4		10/22/24 0806	10/22/24 2124	RVV
Chromium, total	<0.0080	0.0080	mg/L	4		10/22/24 0806	10/22/24 2124	RVV
Cobalt, total	**0.0043**	0.0004	mg/L	4		10/22/24 0806	10/22/24 2124	RVV
Copper, total	**0.0046**	0.0040	mg/L	4		10/22/24 0806	10/22/24 2124	RVV
Lead, total	<0.0040	0.0040	mg/L	4		10/22/24 0806	10/22/24 2124	RVV
Nickel, total	**0.0327**	0.0040	mg/L	4		10/22/24 0806	10/22/24 2124	RVV
Selenium, total	<0.0040	0.0040	mg/L	4		10/22/24 0806	10/22/24 2124	RVV
Silver, total	<0.0040	0.0040	mg/L	4		10/22/24 0806	10/22/24 2124	RVV
Thallium, total	<0.0020	0.0020	mg/L	4		10/22/24 0806	10/22/24 2124	RVV
Vanadium, total	<0.0200	0.0200	mg/L	4		10/22/24 0806	10/22/24 2124	RVV
Zinc, total	<0.0200	0.0200	mg/L	4		10/22/24 0806	10/22/24 2124	RVV

Client Sample ID:	MW-37R		
Sample Matrix:	Aqueous		
Lab Sample ID:	1HJ1342-06	**Collection Date:**	10/15/2024

Determination of Volatile Organic Compounds	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 8260B								
Chloromethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2245	CSM
Vinyl Chloride	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2245	CSM
Bromomethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2245	CSM
Chloroethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2245	CSM
Trichlorofluoromethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2245	CSM
1,1-Dichloroethylene	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2245	CSM
Acetone	<10.0	10.0	ug/L	1		10/21/24 0000	10/21/24 2245	CSM
Methyl Iodide	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2245	CSM
Carbon Disulfide	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2245	CSM
Methylene Chloride	<5.0	5.0	ug/L	1		10/21/24 0000	10/21/24 2245	CSM
Acrylonitrile	<5.0	5.0	ug/L	1		10/21/24 0000	10/21/24 2245	CSM
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2245	CSM
1,1-Dichloroethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2245	CSM
Vinyl Acetate	<5.0	5.0	ug/L	1		10/21/24 0000	10/21/24 2245	CSM
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2245	CSM
2-Butanone (MEK)	<10.0	10.0	ug/L	1		10/21/24 0000	10/21/24 2245	CSM
Bromochloromethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2245	CSM
Chloroform	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2245	CSM
1,1,1-Trichloroethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2245	CSM
Carbon Tetrachloride	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2245	CSM
Benzene	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2245	CSM
1,2-Dichloroethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2245	CSM
Trichloroethylene	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2245	CSM
1,2-Dichloropropane	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2245	CSM
Dibromomethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2245	CSM
Bromodichloromethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2245	CSM
cis-1,3-Dichloropropene	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2245	CSM
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L	1		10/21/24 0000	10/21/24 2245	CSM
Toluene	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2245	CSM
trans-1,3-Dichloropropene	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2245	CSM
1,1,2-Trichloroethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2245	CSM
Tetrachloroethylene	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2245	CSM
2-Hexanone (MBK)	<5.0	5.0	ug/L	1		10/21/24 0000	10/21/24 2245	CSM
Dibromochloromethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2245	CSM
1,2-Dibromoethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2245	CSM
Chlorobenzene	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2245	CSM
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2245	CSM
Ethylbenzene	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2245	CSM
Xylenes, total	<2.0	2.0	ug/L	1		10/21/24 0000	10/21/24 2245	CSM
Styrene	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2245	CSM
Bromoform	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2245	CSM
1,2,3-Trichloropropane	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2245	CSM

Client Sample ID:	MW-37R		
Sample Matrix:	Aqueous		
Lab Sample ID:	1HJ1342-06	**Collection Date:**	10/15/2024

Determination of Volatile Organic Compounds	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
trans-1,4-Dichloro-2-butene	<5.0	5.0	ug/L	1		10/21/24 0000	10/21/24 2245	CSM
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2245	CSM
1,4-Dichlorobenzene	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2245	CSM
1,2-Dichlorobenzene	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2245	CSM
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L	1		10/21/24 0000	10/21/24 2245	CSM
Surrogate: Dibromofluoromethane	104	Limit: 57-134	% Rec	1		10/21/24 0000	10/21/24 2245	CSM
Surrogate: Dibromofluoromethane	104	Limit: 75-136	% Rec	1		10/21/24 0000	10/21/24 2245	CSM
Surrogate: 1,2-Dichloroethane-d4	109	Limit: 53-140	% Rec	1		10/21/24 0000	10/21/24 2245	CSM
Surrogate: 1,2-Dichloroethane-d4	109	Limit: 61-142	% Rec	1		10/21/24 0000	10/21/24 2245	CSM
Surrogate: Toluene-d8	96.3	Limit: 82-121	% Rec	1		10/21/24 0000	10/21/24 2245	CSM
Surrogate: Toluene-d8	96.3	Limit: 86-114	% Rec	1		10/21/24 0000	10/21/24 2245	CSM
Surrogate: 4-Bromofluorobenzene	98.7	Limit: 80-116	% Rec	1		10/21/24 0000	10/21/24 2245	CSM
Surrogate: 4-Bromofluorobenzene	98.7	Limit: 78-121	% Rec	1		10/21/24 0000	10/21/24 2245	CSM

Determination of Total Metals	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A								
Antimony, total	<0.0020	0.0020	mg/L	4		10/22/24 0806	10/22/24 2131	RVV
Arsenic, total	<0.0040	0.0040	mg/L	4		10/22/24 0806	10/22/24 2131	RVV
Barium, total	**0.715**	0.0040	mg/L	4		10/22/24 0806	10/22/24 2131	RVV
Beryllium, total	<0.0040	0.0040	mg/L	4		10/22/24 0806	10/22/24 2131	RVV
Cadmium, total	<0.0008	0.0008	mg/L	4		10/22/24 0806	10/22/24 2131	RVV
Chromium, total	<0.0080	0.0080	mg/L	4		10/22/24 0806	10/22/24 2131	RVV
Cobalt, total	<0.0004	0.0004	mg/L	4		10/22/24 0806	10/22/24 2131	RVV
Copper, total	<0.0040	0.0040	mg/L	4		10/22/24 0806	10/22/24 2131	RVV
Lead, total	<0.0040	0.0040	mg/L	4		10/22/24 0806	10/22/24 2131	RVV
Nickel, total	<0.0040	0.0040	mg/L	4		10/22/24 0806	10/22/24 2131	RVV
Selenium, total	**0.0158**	0.0040	mg/L	4		10/22/24 0806	10/22/24 2131	RVV
Silver, total	<0.0040	0.0040	mg/L	4		10/22/24 0806	10/22/24 2131	RVV
Thallium, total	<0.0020	0.0020	mg/L	4		10/22/24 0806	10/22/24 2131	RVV
Vanadium, total	<0.0200	0.0200	mg/L	4		10/22/24 0806	10/22/24 2131	RVV
Zinc, total	<0.0200	0.0200	mg/L	4		10/22/24 0806	10/22/24 2131	RVV

Client Sample ID:	MW-38R		
Sample Matrix:	Aqueous		
Lab Sample ID:	1HJ1342-07	**Collection Date:**	10/15/2024

Determination of Volatile Organic Compounds	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 8260B								
Chloromethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2307	CSM
Vinyl Chloride	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2307	CSM
Bromomethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2307	CSM
Chloroethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2307	CSM
Trichlorofluoromethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2307	CSM
1,1-Dichloroethylene	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2307	CSM
Acetone	<10.0	10.0	ug/L	1		10/21/24 0000	10/21/24 2307	CSM
Methyl Iodide	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2307	CSM
Carbon Disulfide	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2307	CSM
Methylene Chloride	<5.0	5.0	ug/L	1		10/21/24 0000	10/21/24 2307	CSM
Acrylonitrile	<5.0	5.0	ug/L	1		10/21/24 0000	10/21/24 2307	CSM
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2307	CSM
1,1-Dichloroethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2307	CSM
Vinyl Acetate	<5.0	5.0	ug/L	1		10/21/24 0000	10/21/24 2307	CSM
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2307	CSM
2-Butanone (MEK)	<10.0	10.0	ug/L	1		10/21/24 0000	10/21/24 2307	CSM
Bromochloromethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2307	CSM
Chloroform	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2307	CSM
1,1,1-Trichloroethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2307	CSM
Carbon Tetrachloride	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2307	CSM
Benzene	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2307	CSM
1,2-Dichloroethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2307	CSM
Trichloroethylene	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2307	CSM
1,2-Dichloropropane	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2307	CSM
Dibromomethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2307	CSM
Bromodichloromethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2307	CSM
cis-1,3-Dichloropropene	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2307	CSM
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L	1		10/21/24 0000	10/21/24 2307	CSM
Toluene	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2307	CSM
trans-1,3-Dichloropropene	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2307	CSM
1,1,2-Trichloroethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2307	CSM
Tetrachloroethylene	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2307	CSM
2-Hexanone (MBK)	<5.0	5.0	ug/L	1		10/21/24 0000	10/21/24 2307	CSM
Dibromochloromethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2307	CSM
1,2-Dibromoethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2307	CSM
Chlorobenzene	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2307	CSM
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2307	CSM
Ethylbenzene	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2307	CSM
Xylenes, total	<2.0	2.0	ug/L	1		10/21/24 0000	10/21/24 2307	CSM
Styrene	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2307	CSM
Bromoform	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2307	CSM
1,2,3-Trichloropropane	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2307	CSM

Client Sample ID:	MW-38R		
Sample Matrix:	Aqueous		
Lab Sample ID:	1HJ1342-07	**Collection Date:**	10/15/2024

Determination of Volatile Organic Compounds	**Result**	**RL**	**Units**	**DF**	**Note**	**Prepared**	**Analyzed**	**Analyst**
trans-1,4-Dichloro-2-butene	<5.0	5.0	ug/L	1		10/21/24 0000	10/21/24 2307	CSM
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2307	CSM
1,4-Dichlorobenzene	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2307	CSM
1,2-Dichlorobenzene	<1.0	1.0	ug/L	1		10/21/24 0000	10/21/24 2307	CSM
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L	1		10/21/24 0000	10/21/24 2307	CSM
Surrogate: Dibromofluoromethane	105	Limit: 57-134	% Rec	1		10/21/24 0000	10/21/24 2307	CSM
Surrogate: Dibromofluoromethane	105	Limit: 75-136	% Rec	1		10/21/24 0000	10/21/24 2307	CSM
Surrogate: 1,2-Dichloroethane-d4	110	Limit: 53-140	% Rec	1		10/21/24 0000	10/21/24 2307	CSM
Surrogate: 1,2-Dichloroethane-d4	110	Limit: 61-142	% Rec	1		10/21/24 0000	10/21/24 2307	CSM
Surrogate: Toluene-d8	95.4	Limit: 86-114	% Rec	1		10/21/24 0000	10/21/24 2307	CSM
Surrogate: Toluene-d8	95.4	Limit: 82-121	% Rec	1		10/21/24 0000	10/21/24 2307	CSM
Surrogate: 4-Bromofluorobenzene	98.0	Limit: 78-121	% Rec	1		10/21/24 0000	10/21/24 2307	CSM
Surrogate: 4-Bromofluorobenzene	98.0	Limit: 80-116	% Rec	1		10/21/24 0000	10/21/24 2307	CSM

Determination of Total Metals	**Result**	**RL**	**Units**	**DF**	**Note**	**Prepared**	**Analyzed**	**Analyst**
EPA 3005A/EPA 6020A								
Antimony, total	<0.0020	0.0020	mg/L	4		10/22/24 0806	10/23/24 1141	RVV
Arsenic, total	**0.0157**	0.0040	mg/L	4		10/22/24 0806	10/23/24 1141	RVV
Barium, total	**0.337**	0.0040	mg/L	4		10/22/24 0806	10/23/24 1141	RVV
Beryllium, total	<0.0040	0.0040	mg/L	4		10/22/24 0806	10/23/24 1141	RVV
Cadmium, total	**0.0019**	0.0008	mg/L	4		10/22/24 0806	10/23/24 1141	RVV
Chromium, total	**0.218**	0.0080	mg/L	4		10/22/24 0806	10/23/24 1141	RVV
Cobalt, total	**0.0168**	0.0004	mg/L	4		10/22/24 0806	10/23/24 1141	RVV
Copper, total	**0.0239**	0.0040	mg/L	4		10/22/24 0806	10/23/24 1141	RVV
Lead, total	**0.0145**	0.0040	mg/L	4		10/22/24 0806	10/23/24 1141	RVV
Nickel, total	**0.145**	0.0040	mg/L	4		10/22/24 0806	10/23/24 1141	RVV
Selenium, total	**0.0078**	0.0040	mg/L	4		10/22/24 0806	10/23/24 1141	RVV
Silver, total	<0.0040	0.0040	mg/L	4		10/22/24 0806	10/23/24 1141	RVV
Thallium, total	<0.0020	0.0020	mg/L	4		10/22/24 0806	10/23/24 1141	RVV
Vanadium, total	**0.0593**	0.0200	mg/L	4		10/22/24 0806	10/23/24 1141	RVV
Zinc, total	**0.0440**	0.0200	mg/L	4		10/22/24 0806	10/23/24 1141	RVV

Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

1HJ1342

Client Sample ID: MW-39
Sample Matrix: Aqueous
Lab Sample ID: 1HJ1342-08 **Collection Date:** 10/15/2024

Determination of Volatile Organic Compounds	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 8260B								
Chloromethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0146	CSM
Vinyl Chloride	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0146	CSM
Bromomethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0146	CSM
Chloroethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0146	CSM
Trichlorofluoromethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0146	CSM
1,1-Dichloroethylene	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0146	CSM
Acetone	<10.0	10.0	ug/L	1		10/21/24 0000	10/22/24 0146	CSM
Methyl Iodide	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0146	CSM
Carbon Disulfide	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0146	CSM
Methylene Chloride	<5.0	5.0	ug/L	1		10/21/24 0000	10/22/24 0146	CSM
Acrylonitrile	<5.0	5.0	ug/L	1		10/21/24 0000	10/22/24 0146	CSM
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0146	CSM
1,1-Dichloroethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0146	CSM
Vinyl Acetate	<5.0	5.0	ug/L	1		10/21/24 0000	10/22/24 0146	CSM
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0146	CSM
2-Butanone (MEK)	<10.0	10.0	ug/L	1		10/21/24 0000	10/22/24 0146	CSM
Bromochloromethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0146	CSM
Chloroform	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0146	CSM
1,1,1-Trichloroethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0146	CSM
Carbon Tetrachloride	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0146	CSM
Benzene	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0146	CSM
1,2-Dichloroethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0146	CSM
Trichloroethylene	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0146	CSM
1,2-Dichloropropane	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0146	CSM
Dibromomethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0146	CSM
Bromodichloromethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0146	CSM
cis-1,3-Dichloropropene	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0146	CSM
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L	1		10/21/24 0000	10/22/24 0146	CSM
Toluene	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0146	CSM
trans-1,3-Dichloropropene	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0146	CSM
1,1,2-Trichloroethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0146	CSM
Tetrachloroethylene	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0146	CSM
2-Hexanone (MBK)	<5.0	5.0	ug/L	1		10/21/24 0000	10/22/24 0146	CSM
Dibromochloromethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0146	CSM
1,2-Dibromoethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0146	CSM
Chlorobenzene	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0146	CSM
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0146	CSM
Ethylbenzene	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0146	CSM
Xylenes, total	<2.0	2.0	ug/L	1		10/21/24 0000	10/22/24 0146	CSM
Styrene	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0146	CSM
Bromoform	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0146	CSM
1,2,3-Trichloropropane	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0146	CSM

Client Sample ID:	MW-39		
Sample Matrix:	Aqueous		
Lab Sample ID:	1HJ1342-08	**Collection Date:**	10/15/2024

Determination of Volatile Organic Compounds	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
trans-1,4-Dichloro-2-butene	<5.0	5.0	ug/L	1		10/21/24 0000	10/22/24 0146	CSM
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0146	CSM
1,4-Dichlorobenzene	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0146	CSM
1,2-Dichlorobenzene	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0146	CSM
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L	1		10/21/24 0000	10/22/24 0146	CSM
Surrogate: Dibromofluoromethane	105	Limit: 75-136	% Rec	1		10/21/24 0000	10/22/24 0146	CSM
Surrogate: Dibromofluoromethane	105	Limit: 57-134	% Rec	1		10/21/24 0000	10/22/24 0146	CSM
Surrogate: 1,2-Dichloroethane-d4	110	Limit: 53-140	% Rec	1		10/21/24 0000	10/22/24 0146	CSM
Surrogate: 1,2-Dichloroethane-d4	110	Limit: 61-142	% Rec	1		10/21/24 0000	10/22/24 0146	CSM
Surrogate: Toluene-d8	96.0	Limit: 82-121	% Rec	1		10/21/24 0000	10/22/24 0146	CSM
Surrogate: Toluene-d8	96.0	Limit: 86-114	% Rec	1		10/21/24 0000	10/22/24 0146	CSM
Surrogate: 4-Bromofluorobenzene	98.9	Limit: 78-121	% Rec	1		10/21/24 0000	10/22/24 0146	CSM
Surrogate: 4-Bromofluorobenzene	98.9	Limit: 80-116	% Rec	1		10/21/24 0000	10/22/24 0146	CSM

Determination of Total Metals	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A								
Antimony, total	<0.0020	0.0020	mg/L	4		10/22/24 0806	10/22/24 2143	RVV
Arsenic, total	<0.0040	0.0040	mg/L	4		10/22/24 0806	10/22/24 2143	RVV
Barium, total	**0.0931**	0.0040	mg/L	4		10/22/24 0806	10/22/24 2143	RVV
Beryllium, total	<0.0040	0.0040	mg/L	4		10/22/24 0806	10/22/24 2143	RVV
Cadmium, total	<0.0008	0.0008	mg/L	4		10/22/24 0806	10/22/24 2143	RVV
Chromium, total	<0.0080	0.0080	mg/L	4		10/22/24 0806	10/22/24 2143	RVV
Cobalt, total	<0.0004	0.0004	mg/L	4		10/22/24 0806	10/22/24 2143	RVV
Copper, total	<0.0040	0.0040	mg/L	4		10/22/24 0806	10/22/24 2143	RVV
Lead, total	<0.0040	0.0040	mg/L	4		10/22/24 0806	10/22/24 2143	RVV
Nickel, total	<0.0040	0.0040	mg/L	4		10/22/24 0806	10/22/24 2143	RVV
Selenium, total	**0.0636**	0.0040	mg/L	4		10/22/24 0806	10/22/24 2143	RVV
Silver, total	<0.0040	0.0040	mg/L	4		10/22/24 0806	10/22/24 2143	RVV
Thallium, total	<0.0020	0.0020	mg/L	4		10/22/24 0806	10/22/24 2143	RVV
Vanadium, total	<0.0200	0.0200	mg/L	4		10/22/24 0806	10/22/24 2143	RVV
Zinc, total	<0.0200	0.0200	mg/L	4		10/22/24 0806	10/22/24 2143	RVV

Client Sample ID:	MW-43		
Sample Matrix:	Aqueous		
Lab Sample ID:	1HJ1342-09	**Collection Date:**	10/15/2024

Determination of Volatile Organic Compounds	**Result**	**RL**	**Units**	**DF**	**Note**	**Prepared**	**Analyzed**	**Analyst**
EPA 5030B/EPA 8260B								
Chloromethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0208	CSM
Vinyl Chloride	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0208	CSM
Bromomethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0208	CSM
Chloroethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0208	CSM
Trichlorofluoromethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0208	CSM
1,1-Dichloroethylene	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0208	CSM
Acetone	<10.0	10.0	ug/L	1		10/21/24 0000	10/22/24 0208	CSM
Methyl Iodide	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0208	CSM
Carbon Disulfide	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0208	CSM
Methylene Chloride	<5.0	5.0	ug/L	1		10/21/24 0000	10/22/24 0208	CSM
Acrylonitrile	<5.0	5.0	ug/L	1		10/21/24 0000	10/22/24 0208	CSM
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0208	CSM
1,1-Dichloroethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0208	CSM
Vinyl Acetate	<5.0	5.0	ug/L	1		10/21/24 0000	10/22/24 0208	CSM
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0208	CSM
2-Butanone (MEK)	<10.0	10.0	ug/L	1		10/21/24 0000	10/22/24 0208	CSM
Bromochloromethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0208	CSM
Chloroform	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0208	CSM
1,1,1-Trichloroethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0208	CSM
Carbon Tetrachloride	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0208	CSM
Benzene	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0208	CSM
1,2-Dichloroethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0208	CSM
Trichloroethylene	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0208	CSM
1,2-Dichloropropane	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0208	CSM
Dibromomethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0208	CSM
Bromodichloromethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0208	CSM
cis-1,3-Dichloropropene	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0208	CSM
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L	1		10/21/24 0000	10/22/24 0208	CSM
Toluene	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0208	CSM
trans-1,3-Dichloropropene	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0208	CSM
1,1,2-Trichloroethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0208	CSM
Tetrachloroethylene	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0208	CSM
2-Hexanone (MBK)	<5.0	5.0	ug/L	1		10/21/24 0000	10/22/24 0208	CSM
Dibromochloromethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0208	CSM
1,2-Dibromoethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0208	CSM
Chlorobenzene	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0208	CSM
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0208	CSM
Ethylbenzene	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0208	CSM
Xylenes, total	<2.0	2.0	ug/L	1		10/21/24 0000	10/22/24 0208	CSM
Styrene	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0208	CSM
Bromoform	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0208	CSM
1,2,3-Trichloropropane	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0208	CSM

Client Sample ID:	MW-43		
Sample Matrix:	Aqueous		
Lab Sample ID:	1HJ1342-09	**Collection Date:**	10/15/2024

Determination of Volatile Organic Compounds	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
trans-1,4-Dichloro-2-butene	<5.0	5.0	ug/L	1		10/21/24 0000	10/22/24 0208	CSM
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0208	CSM
1,4-Dichlorobenzene	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0208	CSM
1,2-Dichlorobenzene	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0208	CSM
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L	1		10/21/24 0000	10/22/24 0208	CSM
Surrogate: Dibromofluoromethane	105	Limit: 57-134	% Rec	1		10/21/24 0000	10/22/24 0208	CSM
Surrogate: Dibromofluoromethane	105	Limit: 75-136	% Rec	1		10/21/24 0000	10/22/24 0208	CSM
Surrogate: 1,2-Dichloroethane-d4	110	Limit: 53-140	% Rec	1		10/21/24 0000	10/22/24 0208	CSM
Surrogate: 1,2-Dichloroethane-d4	110	Limit: 61-142	% Rec	1		10/21/24 0000	10/22/24 0208	CSM
Surrogate: Toluene-d8	95.8	Limit: 86-114	% Rec	1		10/21/24 0000	10/22/24 0208	CSM
Surrogate: Toluene-d8	95.8	Limit: 82-121	% Rec	1		10/21/24 0000	10/22/24 0208	CSM
Surrogate: 4-Bromofluorobenzene	99.0	Limit: 78-121	% Rec	1		10/21/24 0000	10/22/24 0208	CSM
Surrogate: 4-Bromofluorobenzene	99.0	Limit: 80-116	% Rec	1		10/21/24 0000	10/22/24 0208	CSM

Determination of Total Metals	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A								
Antimony, total	<0.0020	0.0020	mg/L	4		10/22/24 0806	10/22/24 2149	RVV
Arsenic, total	<0.0040	0.0040	mg/L	4		10/22/24 0806	10/22/24 2149	RVV
Barium, total	**0.231**	0.0040	mg/L	4		10/22/24 0806	10/22/24 2149	RVV
Beryllium, total	<0.0040	0.0040	mg/L	4		10/22/24 0806	10/22/24 2149	RVV
Cadmium, total	<0.0008	0.0008	mg/L	4		10/22/24 0806	10/22/24 2149	RVV
Chromium, total	<0.0080	0.0080	mg/L	4		10/22/24 0806	10/22/24 2149	RVV
Cobalt, total	**0.0013**	0.0004	mg/L	4		10/22/24 0806	10/22/24 2149	RVV
Copper, total	<0.0040	0.0040	mg/L	4		10/22/24 0806	10/22/24 2149	RVV
Lead, total	<0.0040	0.0040	mg/L	4		10/22/24 0806	10/22/24 2149	RVV
Nickel, total	**0.0045**	0.0040	mg/L	4		10/22/24 0806	10/22/24 2149	RVV
Selenium, total	<0.0040	0.0040	mg/L	4		10/22/24 0806	10/22/24 2149	RVV
Silver, total	<0.0040	0.0040	mg/L	4		10/22/24 0806	10/22/24 2149	RVV
Thallium, total	<0.0020	0.0020	mg/L	4		10/22/24 0806	10/22/24 2149	RVV
Vanadium, total	<0.0200	0.0200	mg/L	4		10/22/24 0806	10/22/24 2149	RVV
Zinc, total	<0.0200	0.0200	mg/L	4		10/22/24 0806	10/22/24 2149	RVV

Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

1HJ1342

Client Sample ID:	MW-13		
Sample Matrix:	Aqueous		
Lab Sample ID:	1HJ1342-10	**Collection Date:**	10/15/2024

Determination of Total Metals	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A								
Antimony, total	<0.0020	0.0020	mg/L	4		10/22/24 0806	10/22/24 2207	RVV
Arsenic, total	<0.0040	0.0040	mg/L	4		10/22/24 0806	10/22/24 2207	RVV
Barium, total	**0.232**	0.0040	mg/L	4		10/22/24 0806	10/22/24 2207	RVV
Beryllium, total	<0.0040	0.0040	mg/L	4		10/22/24 0806	10/22/24 2207	RVV
Cadmium, total	<0.0008	0.0008	mg/L	4		10/22/24 0806	10/22/24 2207	RVV
Chromium, total	<0.0080	0.0080	mg/L	4		10/22/24 0806	10/22/24 2207	RVV
Cobalt, total	**0.0017**	0.0004	mg/L	4		10/22/24 0806	10/22/24 2207	RVV
Copper, total	<0.0040	0.0040	mg/L	4		10/22/24 0806	10/22/24 2207	RVV
Lead, total	<0.0040	0.0040	mg/L	4		10/22/24 0806	10/22/24 2207	RVV
Nickel, total	**0.0058**	0.0040	mg/L	4		10/22/24 0806	10/22/24 2207	RVV
Selenium, total	<0.0040	0.0040	mg/L	4		10/22/24 0806	10/22/24 2207	RVV
Silver, total	<0.0040	0.0040	mg/L	4		10/22/24 0806	10/22/24 2207	RVV
Thallium, total	<0.0020	0.0020	mg/L	4		10/22/24 0806	10/22/24 2207	RVV
Vanadium, total	<0.0200	0.0200	mg/L	4		10/22/24 0806	10/22/24 2207	RVV
Zinc, total	<0.0200	0.0200	mg/L	4		10/22/24 0806	10/22/24 2207	RVV

Client Sample ID:	MW-22		
Sample Matrix:	Aqueous		
Lab Sample ID:	1HJ1342-11	**Collection Date:**	10/15/2024

Determination of Volatile Organic Compounds	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 8260B								
Chloromethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0231	CSM
Vinyl Chloride	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0231	CSM
Bromomethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0231	CSM
Chloroethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0231	CSM
Trichlorofluoromethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0231	CSM
1,1-Dichloroethylene	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0231	CSM
Acetone	<10.0	10.0	ug/L	1		10/21/24 0000	10/22/24 0231	CSM
Methyl Iodide	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0231	CSM
Carbon Disulfide	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0231	CSM
Methylene Chloride	<5.0	5.0	ug/L	1		10/21/24 0000	10/22/24 0231	CSM
Acrylonitrile	<5.0	5.0	ug/L	1		10/21/24 0000	10/22/24 0231	CSM
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0231	CSM
1,1-Dichloroethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0231	CSM
Vinyl Acetate	<5.0	5.0	ug/L	1		10/21/24 0000	10/22/24 0231	CSM
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0231	CSM
2-Butanone (MEK)	<10.0	10.0	ug/L	1		10/21/24 0000	10/22/24 0231	CSM
Bromochloromethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0231	CSM
Chloroform	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0231	CSM
1,1,1-Trichloroethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0231	CSM
Carbon Tetrachloride	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0231	CSM
Benzene	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0231	CSM
1,2-Dichloroethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0231	CSM
Trichloroethylene	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0231	CSM
1,2-Dichloropropane	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0231	CSM
Dibromomethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0231	CSM
Bromodichloromethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0231	CSM
cis-1,3-Dichloropropene	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0231	CSM
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L	1		10/21/24 0000	10/22/24 0231	CSM
Toluene	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0231	CSM
trans-1,3-Dichloropropene	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0231	CSM
1,1,2-Trichloroethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0231	CSM
Tetrachloroethylene	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0231	CSM
2-Hexanone (MBK)	<5.0	5.0	ug/L	1		10/21/24 0000	10/22/24 0231	CSM
Dibromochloromethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0231	CSM
1,2-Dibromoethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0231	CSM
Chlorobenzene	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0231	CSM
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0231	CSM
Ethylbenzene	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0231	CSM
Xylenes, total	<2.0	2.0	ug/L	1		10/21/24 0000	10/22/24 0231	CSM
Styrene	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0231	CSM
Bromoform	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0231	CSM
1,2,3-Trichloropropane	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0231	CSM

Client Sample ID:	MW-22		
Sample Matrix:	Aqueous		
Lab Sample ID:	1HJ1342-11	**Collection Date:**	10/15/2024

Determination of Volatile Organic Compounds	**Result**	**RL**	**Units**	**DF**	**Note**	**Prepared**	**Analyzed**	**Analyst**
trans-1,4-Dichloro-2-butene	<5.0	5.0	ug/L	1		10/21/24 0000	10/22/24 0231	CSM
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0231	CSM
1,4-Dichlorobenzene	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0231	CSM
1,2-Dichlorobenzene	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0231	CSM
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L	1		10/21/24 0000	10/22/24 0231	CSM
Surrogate: Dibromofluoromethane	104	Limit: 75-136	% Rec	1		10/21/24 0000	10/22/24 0231	CSM
Surrogate: Dibromofluoromethane	104	Limit: 57-134	% Rec	1		10/21/24 0000	10/22/24 0231	CSM
Surrogate: 1,2-Dichloroethane-d4	109	Limit: 53-140	% Rec	1		10/21/24 0000	10/22/24 0231	CSM
Surrogate: 1,2-Dichloroethane-d4	109	Limit: 61-142	% Rec	1		10/21/24 0000	10/22/24 0231	CSM
Surrogate: Toluene-d8	95.3	Limit: 82-121	% Rec	1		10/21/24 0000	10/22/24 0231	CSM
Surrogate: Toluene-d8	95.3	Limit: 86-114	% Rec	1		10/21/24 0000	10/22/24 0231	CSM
Surrogate: 4-Bromofluorobenzene	98.3	Limit: 78-121	% Rec	1		10/21/24 0000	10/22/24 0231	CSM
Surrogate: 4-Bromofluorobenzene	98.3	Limit: 80-116	% Rec	1		10/21/24 0000	10/22/24 0231	CSM

Determination of Total Metals	**Result**	**RL**	**Units**	**DF**	**Note**	**Prepared**	**Analyzed**	**Analyst**
EPA 3005A/EPA 6020A								
Antimony, total	**0.0216**	0.0020	mg/L	4		10/22/24 0806	10/22/24 2213	RVV
Arsenic, total	<0.0040	0.0040	mg/L	4		10/22/24 0806	10/22/24 2213	RVV
Barium, total	**0.231**	0.0040	mg/L	4		10/22/24 0806	10/22/24 2213	RVV
Beryllium, total	<0.0040	0.0040	mg/L	4		10/22/24 0806	10/22/24 2213	RVV
Cadmium, total	<0.0008	0.0008	mg/L	4		10/22/24 0806	10/22/24 2213	RVV
Chromium, total	<0.0080	0.0080	mg/L	4		10/22/24 0806	10/22/24 2213	RVV
Cobalt, total	<0.0004	0.0004	mg/L	4		10/22/24 0806	10/22/24 2213	RVV
Copper, total	<0.0040	0.0040	mg/L	4		10/22/24 0806	10/22/24 2213	RVV
Lead, total	<0.0040	0.0040	mg/L	4		10/22/24 0806	10/22/24 2213	RVV
Nickel, total	<0.0040	0.0040	mg/L	4		10/22/24 0806	10/22/24 2213	RVV
Selenium, total	<0.0040	0.0040	mg/L	4		10/22/24 0806	10/22/24 2213	RVV
Silver, total	<0.0040	0.0040	mg/L	4		10/22/24 0806	10/22/24 2213	RVV
Thallium, total	<0.0020	0.0020	mg/L	4		10/22/24 0806	10/22/24 2213	RVV
Vanadium, total	<0.0200	0.0200	mg/L	4		10/22/24 0806	10/22/24 2213	RVV
Zinc, total	<0.0200	0.0200	mg/L	4		10/22/24 0806	10/22/24 2213	RVV

Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

1HJ1342

Client Sample ID:	MW-11		
Sample Matrix:	Aqueous		
Lab Sample ID:	1HJ1342-12	**Collection Date:**	10/15/2024

Determination of Volatile Organic Compounds	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 8260B								
Chloromethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0254	CSM
Vinyl Chloride	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0254	CSM
Bromomethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0254	CSM
Chloroethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0254	CSM
Trichlorofluoromethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0254	CSM
1,1-Dichloroethylene	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0254	CSM
Acetone	<10.0	10.0	ug/L	1		10/21/24 0000	10/22/24 0254	CSM
Methyl Iodide	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0254	CSM
Carbon Disulfide	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0254	CSM
Methylene Chloride	<5.0	5.0	ug/L	1		10/21/24 0000	10/22/24 0254	CSM
Acrylonitrile	<5.0	5.0	ug/L	1		10/21/24 0000	10/22/24 0254	CSM
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0254	CSM
1,1-Dichloroethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0254	CSM
Vinyl Acetate	<5.0	5.0	ug/L	1		10/21/24 0000	10/22/24 0254	CSM
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0254	CSM
2-Butanone (MEK)	<10.0	10.0	ug/L	1		10/21/24 0000	10/22/24 0254	CSM
Bromochloromethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0254	CSM
Chloroform	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0254	CSM
1,1,1-Trichloroethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0254	CSM
Carbon Tetrachloride	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0254	CSM
Benzene	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0254	CSM
1,2-Dichloroethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0254	CSM
Trichloroethylene	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0254	CSM
1,2-Dichloropropane	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0254	CSM
Dibromomethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0254	CSM
Bromodichloromethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0254	CSM
cis-1,3-Dichloropropene	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0254	CSM
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L	1		10/21/24 0000	10/22/24 0254	CSM
Toluene	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0254	CSM
trans-1,3-Dichloropropene	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0254	CSM
1,1,2-Trichloroethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0254	CSM
Tetrachloroethylene	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0254	CSM
2-Hexanone (MBK)	<5.0	5.0	ug/L	1		10/21/24 0000	10/22/24 0254	CSM
Dibromochloromethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0254	CSM
1,2-Dibromoethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0254	CSM
Chlorobenzene	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0254	CSM
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0254	CSM
Ethylbenzene	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0254	CSM
Xylenes, total	<2.0	2.0	ug/L	1		10/21/24 0000	10/22/24 0254	CSM
Styrene	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0254	CSM
Bromoform	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0254	CSM
1,2,3-Trichloropropane	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0254	CSM

Client Sample ID:	MW-11		
Sample Matrix:	Aqueous		
Lab Sample ID:	1HJ1342-12	**Collection Date:**	10/15/2024

Determination of Volatile Organic Compounds	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
trans-1,4-Dichloro-2-butene	<5.0	5.0	ug/L	1		10/21/24 0000	10/22/24 0254	CSM
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0254	CSM
1,4-Dichlorobenzene	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0254	CSM
1,2-Dichlorobenzene	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0254	CSM
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L	1		10/21/24 0000	10/22/24 0254	CSM
Surrogate: Dibromofluoromethane	104	Limit: 75-136	% Rec	1		10/21/24 0000	10/22/24 0254	CSM
Surrogate: Dibromofluoromethane	104	Limit: 57-134	% Rec	1		10/21/24 0000	10/22/24 0254	CSM
Surrogate: 1,2-Dichloroethane-d4	110	Limit: 61-142	% Rec	1		10/21/24 0000	10/22/24 0254	CSM
Surrogate: 1,2-Dichloroethane-d4	110	Limit: 53-140	% Rec	1		10/21/24 0000	10/22/24 0254	CSM
Surrogate: Toluene-d8	96.8	Limit: 82-121	% Rec	1		10/21/24 0000	10/22/24 0254	CSM
Surrogate: Toluene-d8	96.8	Limit: 86-114	% Rec	1		10/21/24 0000	10/22/24 0254	CSM
Surrogate: 4-Bromofluorobenzene	99.2	Limit: 80-116	% Rec	1		10/21/24 0000	10/22/24 0254	CSM
Surrogate: 4-Bromofluorobenzene	99.2	Limit: 78-121	% Rec	1		10/21/24 0000	10/22/24 0254	CSM

Determination of Total Metals	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A								
Antimony, total	<0.0020	0.0020	mg/L	4		10/22/24 0806	10/22/24 2220	RVV
Arsenic, total	**0.0066**	0.0040	mg/L	4		10/22/24 0806	10/22/24 2220	RVV
Barium, total	**0.346**	0.0040	mg/L	4		10/22/24 0806	10/22/24 2220	RVV
Beryllium, total	<0.0040	0.0040	mg/L	4		10/22/24 0806	10/22/24 2220	RVV
Cadmium, total	<0.0008	0.0008	mg/L	4		10/22/24 0806	10/22/24 2220	RVV
Chromium, total	<0.0080	0.0080	mg/L	4		10/22/24 0806	10/22/24 2220	RVV
Cobalt, total	**0.0030**	0.0004	mg/L	4		10/22/24 0806	10/22/24 2220	RVV
Copper, total	**0.0097**	0.0040	mg/L	4		10/22/24 0806	10/22/24 2220	RVV
Lead, total	<0.0040	0.0040	mg/L	4		10/22/24 0806	10/22/24 2220	RVV
Nickel, total	**0.0054**	0.0040	mg/L	4		10/22/24 0806	10/22/24 2220	RVV
Selenium, total	<0.0040	0.0040	mg/L	4		10/22/24 0806	10/22/24 2220	RVV
Silver, total	<0.0040	0.0040	mg/L	4		10/22/24 0806	10/22/24 2220	RVV
Thallium, total	<0.0020	0.0020	mg/L	4		10/22/24 0806	10/22/24 2220	RVV
Vanadium, total	<0.0200	0.0200	mg/L	4		10/22/24 0806	10/22/24 2220	RVV
Zinc, total	**0.0284**	0.0200	mg/L	4		10/22/24 0806	10/22/24 2220	RVV

Client Sample ID:	MW-23		
Sample Matrix:	Aqueous		
Lab Sample ID:	1HJ1342-13	**Collection Date:**	10/15/2024

Determination of Volatile Organic Compounds	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 8260B								
Chloromethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0316	CSM
Vinyl Chloride	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0316	CSM
Bromomethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0316	CSM
Chloroethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0316	CSM
Trichlorofluoromethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0316	CSM
1,1-Dichloroethylene	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0316	CSM
Acetone	<10.0	10.0	ug/L	1		10/21/24 0000	10/22/24 0316	CSM
Methyl Iodide	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0316	CSM
Carbon Disulfide	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0316	CSM
Methylene Chloride	<5.0	5.0	ug/L	1		10/21/24 0000	10/22/24 0316	CSM
Acrylonitrile	<5.0	5.0	ug/L	1		10/21/24 0000	10/22/24 0316	CSM
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0316	CSM
1,1-Dichloroethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0316	CSM
Vinyl Acetate	<5.0	5.0	ug/L	1		10/21/24 0000	10/22/24 0316	CSM
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0316	CSM
2-Butanone (MEK)	<10.0	10.0	ug/L	1		10/21/24 0000	10/22/24 0316	CSM
Bromochloromethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0316	CSM
Chloroform	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0316	CSM
1,1,1-Trichloroethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0316	CSM
Carbon Tetrachloride	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0316	CSM
Benzene	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0316	CSM
1,2-Dichloroethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0316	CSM
Trichloroethylene	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0316	CSM
1,2-Dichloropropane	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0316	CSM
Dibromomethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0316	CSM
Bromodichloromethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0316	CSM
cis-1,3-Dichloropropene	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0316	CSM
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L	1		10/21/24 0000	10/22/24 0316	CSM
Toluene	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0316	CSM
trans-1,3-Dichloropropene	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0316	CSM
1,1,2-Trichloroethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0316	CSM
Tetrachloroethylene	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0316	CSM
2-Hexanone (MBK)	<5.0	5.0	ug/L	1		10/21/24 0000	10/22/24 0316	CSM
Dibromochloromethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0316	CSM
1,2-Dibromoethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0316	CSM
Chlorobenzene	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0316	CSM
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0316	CSM
Ethylbenzene	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0316	CSM
Xylenes, total	<2.0	2.0	ug/L	1		10/21/24 0000	10/22/24 0316	CSM
Styrene	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0316	CSM
Bromoform	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0316	CSM
1,2,3-Trichloropropane	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0316	CSM

Client Sample ID:	MW-23		
Sample Matrix:	Aqueous		
Lab Sample ID:	1HJ1342-13	**Collection Date:**	10/15/2024

Determination of Volatile Organic Compounds	**Result**	**RL**	**Units**	**DF**	**Note**	**Prepared**	**Analyzed**	**Analyst**
trans-1,4-Dichloro-2-butene	<5.0	5.0	ug/L	1		10/21/24 0000	10/22/24 0316	CSM
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0316	CSM
1,4-Dichlorobenzene	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0316	CSM
1,2-Dichlorobenzene	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0316	CSM
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L	1		10/21/24 0000	10/22/24 0316	CSM
Surrogate: Dibromofluoromethane	106	Limit: 57-134	% Rec	1		10/21/24 0000	10/22/24 0316	CSM
Surrogate: Dibromofluoromethane	106	Limit: 75-136	% Rec	1		10/21/24 0000	10/22/24 0316	CSM
Surrogate: 1,2-Dichloroethane-d4	111	Limit: 53-140	% Rec	1		10/21/24 0000	10/22/24 0316	CSM
Surrogate: 1,2-Dichloroethane-d4	111	Limit: 61-142	% Rec	1		10/21/24 0000	10/22/24 0316	CSM
Surrogate: Toluene-d8	95.6	Limit: 86-114	% Rec	1		10/21/24 0000	10/22/24 0316	CSM
Surrogate: Toluene-d8	95.6	Limit: 82-121	% Rec	1		10/21/24 0000	10/22/24 0316	CSM
Surrogate: 4-Bromofluorobenzene	98.2	Limit: 78-121	% Rec	1		10/21/24 0000	10/22/24 0316	CSM
Surrogate: 4-Bromofluorobenzene	98.2	Limit: 80-116	% Rec	1		10/21/24 0000	10/22/24 0316	CSM

Determination of Total Metals	**Result**	**RL**	**Units**	**DF**	**Note**	**Prepared**	**Analyzed**	**Analyst**
EPA 3005A/EPA 6020A								
Antimony, total	<0.0020	0.0020	mg/L	4		10/22/24 0806	10/22/24 2226	RVV
Arsenic, total	<0.0040	0.0040	mg/L	4		10/22/24 0806	10/22/24 2226	RVV
Barium, total	**0.0233**	0.0040	mg/L	4		10/22/24 0806	10/22/24 2226	RVV
Beryllium, total	<0.0040	0.0040	mg/L	4		10/22/24 0806	10/22/24 2226	RVV
Cadmium, total	<0.0008	0.0008	mg/L	4		10/22/24 0806	10/22/24 2226	RVV
Chromium, total	<0.0080	0.0080	mg/L	4		10/22/24 0806	10/22/24 2226	RVV
Cobalt, total	**0.0004**	0.0004	mg/L	4		10/22/24 0806	10/22/24 2226	RVV
Copper, total	<0.0040	0.0040	mg/L	4		10/22/24 0806	10/22/24 2226	RVV
Lead, total	<0.0040	0.0040	mg/L	4		10/22/24 0806	10/22/24 2226	RVV
Nickel, total	<0.0040	0.0040	mg/L	4		10/22/24 0806	10/22/24 2226	RVV
Selenium, total	<0.0040	0.0040	mg/L	4		10/22/24 0806	10/22/24 2226	RVV
Silver, total	<0.0040	0.0040	mg/L	4		10/22/24 0806	10/22/24 2226	RVV
Thallium, total	<0.0020	0.0020	mg/L	4		10/22/24 0806	10/22/24 2226	RVV
Vanadium, total	<0.0200	0.0200	mg/L	4		10/22/24 0806	10/22/24 2226	RVV
Zinc, total	<0.0200	0.0200	mg/L	4		10/22/24 0806	10/22/24 2226	RVV

Client Sample ID:	MW-36		
Sample Matrix:	Aqueous		
Lab Sample ID:	1HJ1342-14	**Collection Date:**	10/15/2024

Determination of Volatile Organic Compounds	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 8260B								
Chloromethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0339	CSM
Vinyl Chloride	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0339	CSM
Bromomethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0339	CSM
Chloroethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0339	CSM
Trichlorofluoromethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0339	CSM
1,1-Dichloroethylene	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0339	CSM
Acetone	<10.0	10.0	ug/L	1		10/21/24 0000	10/22/24 0339	CSM
Methyl Iodide	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0339	CSM
Carbon Disulfide	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0339	CSM
Methylene Chloride	<5.0	5.0	ug/L	1		10/21/24 0000	10/22/24 0339	CSM
Acrylonitrile	<5.0	5.0	ug/L	1		10/21/24 0000	10/22/24 0339	CSM
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0339	CSM
1,1-Dichloroethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0339	CSM
Vinyl Acetate	<5.0	5.0	ug/L	1		10/21/24 0000	10/22/24 0339	CSM
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0339	CSM
2-Butanone (MEK)	<10.0	10.0	ug/L	1		10/21/24 0000	10/22/24 0339	CSM
Bromochloromethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0339	CSM
Chloroform	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0339	CSM
1,1,1-Trichloroethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0339	CSM
Carbon Tetrachloride	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0339	CSM
Benzene	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0339	CSM
1,2-Dichloroethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0339	CSM
Trichloroethylene	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0339	CSM
1,2-Dichloropropane	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0339	CSM
Dibromomethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0339	CSM
Bromodichloromethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0339	CSM
cis-1,3-Dichloropropene	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0339	CSM
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L	1		10/21/24 0000	10/22/24 0339	CSM
Toluene	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0339	CSM
trans-1,3-Dichloropropene	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0339	CSM
1,1,2-Trichloroethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0339	CSM
Tetrachloroethylene	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0339	CSM
2-Hexanone (MBK)	<5.0	5.0	ug/L	1		10/21/24 0000	10/22/24 0339	CSM
Dibromochloromethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0339	CSM
1,2-Dibromoethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0339	CSM
Chlorobenzene	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0339	CSM
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0339	CSM
Ethylbenzene	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0339	CSM
Xylenes, total	<2.0	2.0	ug/L	1		10/21/24 0000	10/22/24 0339	CSM
Styrene	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0339	CSM
Bromoform	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0339	CSM
1,2,3-Trichloropropane	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0339	CSM

Client Sample ID:	MW-36		
Sample Matrix:	Aqueous		
Lab Sample ID:	1HJ1342-14	**Collection Date:**	10/15/2024

Determination of Volatile Organic Compounds	**Result**	**RL**	**Units**	**DF**	**Note**	**Prepared**	**Analyzed**	**Analyst**
trans-1,4-Dichloro-2-butene	<5.0	5.0	ug/L	1		10/21/24 0000	10/22/24 0339	CSM
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0339	CSM
1,4-Dichlorobenzene	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0339	CSM
1,2-Dichlorobenzene	<1.0	1.0	ug/L	1		10/21/24 0000	10/22/24 0339	CSM
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L	1		10/21/24 0000	10/22/24 0339	CSM
Surrogate: Dibromofluoromethane	106	Limit: 75-136	% Rec	1		10/21/24 0000	10/22/24 0339	CSM
Surrogate: Dibromofluoromethane	106	Limit: 57-134	% Rec	1		10/21/24 0000	10/22/24 0339	CSM
Surrogate: 1,2-Dichloroethane-d4	111	Limit: 61-142	% Rec	1		10/21/24 0000	10/22/24 0339	CSM
Surrogate: 1,2-Dichloroethane-d4	111	Limit: 53-140	% Rec	1		10/21/24 0000	10/22/24 0339	CSM
Surrogate: Toluene-d8	94.7	Limit: 86-114	% Rec	1		10/21/24 0000	10/22/24 0339	CSM
Surrogate: Toluene-d8	94.7	Limit: 82-121	% Rec	1		10/21/24 0000	10/22/24 0339	CSM
Surrogate: 4-Bromofluorobenzene	98.4	Limit: 80-116	% Rec	1		10/21/24 0000	10/22/24 0339	CSM
Surrogate: 4-Bromofluorobenzene	98.4	Limit: 78-121	% Rec	1		10/21/24 0000	10/22/24 0339	CSM

Determination of Total Metals	**Result**	**RL**	**Units**	**DF**	**Note**	**Prepared**	**Analyzed**	**Analyst**
EPA 3005A/EPA 6020A								
Antimony, total	<0.0020	0.0020	mg/L	4		10/22/24 0806	10/22/24 2232	RVV
Arsenic, total	<0.0040	0.0040	mg/L	4		10/22/24 0806	10/22/24 2232	RVV
Barium, total	**0.146**	0.0040	mg/L	4		10/22/24 0806	10/22/24 2232	RVV
Beryllium, total	<0.0040	0.0040	mg/L	4		10/22/24 0806	10/22/24 2232	RVV
Cadmium, total	<0.0008	0.0008	mg/L	4		10/22/24 0806	10/22/24 2232	RVV
Chromium, total	<0.0080	0.0080	mg/L	4		10/22/24 0806	10/22/24 2232	RVV
Cobalt, total	**0.0008**	0.0004	mg/L	4		10/22/24 0806	10/22/24 2232	RVV
Copper, total	<0.0040	0.0040	mg/L	4		10/22/24 0806	10/22/24 2232	RVV
Lead, total	<0.0040	0.0040	mg/L	4		10/22/24 0806	10/22/24 2232	RVV
Nickel, total	**0.0066**	0.0040	mg/L	4		10/22/24 0806	10/22/24 2232	RVV
Selenium, total	<0.0040	0.0040	mg/L	4		10/22/24 0806	10/22/24 2232	RVV
Silver, total	<0.0040	0.0040	mg/L	4		10/22/24 0806	10/22/24 2232	RVV
Thallium, total	<0.0020	0.0020	mg/L	4		10/22/24 0806	10/22/24 2232	RVV
Vanadium, total	<0.0200	0.0200	mg/L	4		10/22/24 0806	10/22/24 2232	RVV
Zinc, total	<0.0200	0.0200	mg/L	4		10/22/24 0806	10/22/24 2232	RVV

Client Sample ID:	Duplicate		
Sample Matrix:	Aqueous		
Lab Sample ID:	1HJ1342-15	**Collection Date:**	10/15/2024

Determination of Total Metals	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A								
Antimony, total	<0.0020	0.0020	mg/L	4		10/22/24 0806	10/22/24 2238	RVV
Arsenic, total	<0.0040	0.0040	mg/L	4		10/22/24 0806	10/22/24 2238	RVV
Barium, total	**0.206**	0.0040	mg/L	4		10/22/24 0806	10/22/24 2238	RVV
Beryllium, total	<0.0040	0.0040	mg/L	4		10/22/24 0806	10/22/24 2238	RVV
Cadmium, total	<0.0008	0.0008	mg/L	4		10/22/24 0806	10/22/24 2238	RVV
Chromium, total	<0.0080	0.0080	mg/L	4		10/22/24 0806	10/22/24 2238	RVV
Cobalt, total	**0.0011**	0.0004	mg/L	4		10/22/24 0806	10/22/24 2238	RVV
Copper, total	<0.0040	0.0040	mg/L	4		10/22/24 0806	10/22/24 2238	RVV
Lead, total	<0.0040	0.0040	mg/L	4		10/22/24 0806	10/22/24 2238	RVV
Nickel, total	**0.0041**	0.0040	mg/L	4		10/22/24 0806	10/22/24 2238	RVV
Selenium, total	<0.0040	0.0040	mg/L	4		10/22/24 0806	10/22/24 2238	RVV
Silver, total	<0.0040	0.0040	mg/L	4		10/22/24 0806	10/22/24 2238	RVV
Thallium, total	<0.0020	0.0020	mg/L	4		10/22/24 0806	10/22/24 2238	RVV
Vanadium, total	<0.0200	0.0200	mg/L	4		10/22/24 0806	10/22/24 2238	RVV
Zinc, total	<0.0200	0.0200	mg/L	4		10/22/24 0806	10/22/24 2238	RVV

Batch Log Summary

Method	Batch	Laboratory ID	Client / Source ID
EPA 8081	1HJ1198	1HJ1198-BLK1	
		1HJ1198-BS1	
		1HJ1198-BSD1	
		1HJ1342-02	MW-19
		1HJ1342-03	MW-20

Method	Batch	Laboratory ID	Client / Source ID
EPA 8151A	1HJ1247	1HJ1342-03	MW-20
		1HJ1247-BLK1	
		1HJ1247-BS1	
		1HJ1247-BSD1	

Method	Batch	Laboratory ID	Client / Source ID
EPA 6020A	1HJ1261	1HJ1261-BLK1	
		1HJ1261-BS1	
		1HJ1342-01	MW-15R
		1HJ1261-MS1	1HJ1342-01
		1HJ1261-MSD1	1HJ1342-01
		1HJ1261-PS1	1HJ1342-01
		1HJ1342-02	MW-19
		1HJ1342-03	MW-20
		1HJ1342-04	MW-21
		1HJ1342-05	MW-24
		1HJ1342-06	MW-37R
		1HJ1342-08	MW-39
		1HJ1342-09	MW-43
		1HJ1342-10	MW-13
		1HJ1342-11	MW-22
		1HJ1342-12	MW-11
		1HJ1342-13	MW-23
		1HJ1342-14	MW-36
		1HJ1342-15	Duplicate
		1HJ1342-07	MW-38R

Method	Batch	Laboratory ID	Client / Source ID
EPA 8260B	1HJ1301	1HJ1301-BS1	
		1HJ1301-BSD1	
		1HJ1301-BLK1	
		1HJ1342-01	MW-15R
		1HJ1342-01	MW-15R

Method	Batch	Laboratory ID	Client / Source ID
EPA 8260B	1HJ1301	1HJ1342-02	MW-19
		1HJ1342-02	MW-19
		1HJ1342-03	MW-20
		1HJ1342-03	MW-20
		1HJ1342-04	MW-21
		1HJ1342-04	MW-21
		1HJ1342-05	MW-24
		1HJ1342-05	MW-24
		1HJ1342-06	MW-37R
		1HJ1342-06	MW-37R
		1HJ1342-07	MW-38R
		1HJ1342-07	MW-38R
		1HJ1301-BS2	
		1HJ1301-BSD2	
		1HJ1301-BLK2	
		1HJ1342-08	MW-39
		1HJ1342-08	MW-39
		1HJ1342-09	MW-43
		1HJ1342-09	MW-43
		1HJ1342-11	MW-22
		1HJ1342-11	MW-22
		1HJ1342-12	MW-11
		1HJ1342-12	MW-11
		1HJ1342-13	MW-23
		1HJ1342-13	MW-23
		1HJ1342-14	MW-36
		1HJ1342-14	MW-36
		1HJ1301-MS1	1HJ1342-01
		1HJ1301-MSD1	1HJ1342-01
		1HJ1301-MS2	1HJ1340-05
		1HJ1301-MSD2	1HJ1340-05

Method	Batch	Laboratory ID	Client / Source ID
300.0	1HJ1571	1HJ1571-BLK1	
		1HJ1571-MRL1	
		1HJ1571-MS1	1HJ1927-02
		1HJ1571-MSD1	1HJ1927-02
		1HJ1571-BLK2	
		1HJ1571-BS1	
		1HJ1571-BSD1	
		1HJ1342-02	MW-19
		1HJ1342-04	MW-21

Method	Batch	Laboratory ID	Client / Source ID
300.0	1HJ1779	1HJ1779-BLK1	
		1HJ1779-BS1	
		1HJ1779-BSD1	
		1HJ1342-03	MW-20
		1HJ1779-MS1	1HJ1352-01
		1HJ1779-MSD1	1HJ1352-01

Batch Quality Control Summary: Microbac Laboratories, Inc., Newton

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1HJ1301 - EPA 5030B - EPA 8260B										
Blank (1HJ1301-BLK1)				Prepared: 10/21/24 00:00 Analyzed: 10/21/24 11:09						
Chloromethane	<1.0	1.0	ug/L							
Vinyl Chloride	<1.0	1.0	ug/L							
Bromomethane	<1.0	1.0	ug/L							
Chloroethane	<1.0	1.0	ug/L							
Trichlorofluoromethane	<1.0	1.0	ug/L							
1,1-Dichloroethylene	<1.0	1.0	ug/L							
Acetone	<10.0	10.0	ug/L							
Methyl Iodide	<1.0	1.0	ug/L							
Carbon Disulfide	<1.0	1.0	ug/L							
Methylene Chloride	<5.0	5.0	ug/L							
Acrylonitrile	<5.0	5.0	ug/L							
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L							
1,1-Dichloroethane	<1.0	1.0	ug/L							
Vinyl Acetate	<5.0	5.0	ug/L							
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L							
2-Butanone (MEK)	<10.0	10.0	ug/L							
Bromochloromethane	<1.0	1.0	ug/L							
Chloroform	<1.0	1.0	ug/L							
1,1,1-Trichloroethane	<1.0	1.0	ug/L							
Carbon Tetrachloride	<1.0	1.0	ug/L							
Benzene	<1.0	1.0	ug/L							
1,2-Dichloroethane	<1.0	1.0	ug/L							
Trichloroethylene	<1.0	1.0	ug/L							
1,2-Dichloropropane	<1.0	1.0	ug/L							
Dibromomethane	<1.0	1.0	ug/L							
Bromodichloromethane	<1.0	1.0	ug/L							
cis-1,3-Dichloropropene	<1.0	1.0	ug/L							
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L							
Toluene	<1.0	1.0	ug/L							
trans-1,3-Dichloropropene	<1.0	1.0	ug/L							
1,1,2-Trichloroethane	<1.0	1.0	ug/L							
Tetrachloroethylene	<1.0	1.0	ug/L							

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1HJ1301 - EPA 5030B - EPA 8260B										
Blank (1HJ1301-BLK1)			Prepared: 10/21/24 00:00 Analyzed: 10/21/24 11:09							
2-Hexanone (MBK)	<5.0	5.0	ug/L							
Dibromochloromethane	<1.0	1.0	ug/L							
1,2-Dibromoethane	<1.0	1.0	ug/L							
Chlorobenzene	<1.0	1.0	ug/L							
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L							
Ethylbenzene	<1.0	1.0	ug/L							
Xylenes, total	<2.0	2.0	ug/L							
Styrene	<1.0	1.0	ug/L							
Bromoform	<1.0	1.0	ug/L							
1,2,3-Trichloropropane	<1.0	1.0	ug/L							
trans-1,4-Dichloro-2-butene	<5.0	5.0	ug/L							
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L							
1,4-Dichlorobenzene	<1.0	1.0	ug/L							
1,2-Dichlorobenzene	<1.0	1.0	ug/L							
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L							
Surrogate: Dibromofluoromethane	*47.6*		ug/L	*50.2*		*94.7*	*57-134*			
Surrogate: Dibromofluoromethane	*47.6*		ug/L	*50.2*		*94.7*	*75-136*			
Surrogate: 1,2-Dichloroethane-d4	*50.0*		ug/L	*50.4*		*99.3*	*53-140*			
Surrogate: 1,2-Dichloroethane-d4	*50.0*		ug/L	*50.4*		*99.3*	*61-142*			
Surrogate: Toluene-d8	*47.2*		ug/L	*50.5*		*93.5*	*86-114*			
Surrogate: Toluene-d8	*47.2*		ug/L	*50.5*		*93.5*	*82-121*			
Surrogate: 4-Bromofluorobenzene	*49.4*		ug/L	*50.2*		*98.4*	*78-121*			
Surrogate: 4-Bromofluorobenzene	*49.4*		ug/L	*50.2*		*98.4*	*80-116*			
Blank (1HJ1301-BLK2)			Prepared: 10/21/24 00:00 Analyzed: 10/22/24 01:23							
Chloromethane	<1.0	1.0	ug/L							
Vinyl Chloride	<1.0	1.0	ug/L							
Bromomethane	<1.0	1.0	ug/L							
Chloroethane	<1.0	1.0	ug/L							
Trichlorofluoromethane	<1.0	1.0	ug/L							
1,1-Dichloroethylene	<1.0	1.0	ug/L							
Acetone	<10.0	10.0	ug/L							
Methyl Iodide	<1.0	1.0	ug/L							
Carbon Disulfide	<1.0	1.0	ug/L							
Methylene Chloride	<5.0	5.0	ug/L							
Acrylonitrile	<5.0	5.0	ug/L							
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L							
1,1-Dichloroethane	<1.0	1.0	ug/L							
Vinyl Acetate	<5.0	5.0	ug/L							
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L							
2-Butanone (MEK)	<10.0	10.0	ug/L							
Bromochloromethane	<1.0	1.0	ug/L							
Chloroform	<1.0	1.0	ug/L							
1,1,1-Trichloroethane	<1.0	1.0	ug/L							

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1HJ1301 - EPA 5030B - EPA 8260B										
Blank (1HJ1301-BLK2)				Prepared: 10/21/24 00:00 Analyzed: 10/22/24 01:23						
Carbon Tetrachloride	<1.0	1.0	ug/L							
Benzene	<1.0	1.0	ug/L							
1,2-Dichloroethane	<1.0	1.0	ug/L							
Trichloroethylene	<1.0	1.0	ug/L							
1,2-Dichloropropane	<1.0	1.0	ug/L							
Dibromomethane	<1.0	1.0	ug/L							
Bromodichloromethane	<1.0	1.0	ug/L							
cis-1,3-Dichloropropene	<1.0	1.0	ug/L							
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L							
Toluene	<1.0	1.0	ug/L							
trans-1,3-Dichloropropene	<1.0	1.0	ug/L							
1,1,2-Trichloroethane	<1.0	1.0	ug/L							
Tetrachloroethylene	<1.0	1.0	ug/L							
2-Hexanone (MBK)	<5.0	5.0	ug/L							
Dibromochloromethane	<1.0	1.0	ug/L							
1,2-Dibromoethane	<1.0	1.0	ug/L							
Chlorobenzene	<1.0	1.0	ug/L							
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L							
Ethylbenzene	<1.0	1.0	ug/L							
Xylenes, total	<2.0	2.0	ug/L							
Styrene	<1.0	1.0	ug/L							
Bromoform	<1.0	1.0	ug/L							
1,2,3-Trichloropropane	<1.0	1.0	ug/L							
trans-1,4-Dichloro-2-butene	<5.0	5.0	ug/L							
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L							
1,4-Dichlorobenzene	<1.0	1.0	ug/L							
1,2-Dichlorobenzene	<1.0	1.0	ug/L							
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L							
Surrogate: Dibromofluoromethane	*52.2*		ug/L	*50.2*		*104*	*57-134*			
Surrogate: Dibromofluoromethane	*52.2*		ug/L	*50.2*		*104*	*75-136*			
Surrogate: 1,2-Dichloroethane-d4	*54.8*		ug/L	*50.4*		*109*	*53-140*			
Surrogate: 1,2-Dichloroethane-d4	*54.8*		ug/L	*50.4*		*109*	*61-142*			
Surrogate: Toluene-d8	*47.9*		ug/L	*50.5*		*94.9*	*86-114*			
Surrogate: Toluene-d8	*47.9*		ug/L	*50.5*		*94.9*	*82-121*			
Surrogate: 4-Bromofluorobenzene	*49.9*		ug/L	*50.2*		*99.5*	*78-121*			
Surrogate: 4-Bromofluorobenzene	*49.9*		ug/L	*50.2*		*99.5*	*80-116*			
LCS (1HJ1301-BS1)				Prepared: 10/21/24 00:00 Analyzed: 10/21/24 10:02						
Chloromethane	30.14	1.0	ug/L	30.0		100	63-155			
Vinyl Chloride	28.96	1.0	ug/L	30.0		96.5	70-154			
Bromomethane	33.12	1.0	ug/L	30.0		110	52-176			
Chloroethane	24.87	1.0	ug/L	30.0		82.9	72-148			
Trichlorofluoromethane	24.34	1.0	ug/L	30.0		81.1	70-152			
1,1-Dichloroethylene	44.45	1.0	ug/L	50.0		88.9	70-148			

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1HJ1301 - EPA 5030B - EPA 8260B										
LCS (1HJ1301-BS1)				Prepared: 10/21/24 00:00 Analyzed: 10/21/24 10:02						
Acetone	99.33	10.0	ug/L	101		98.2	43-172			
Methyl Iodide	96.99	1.0	ug/L	102		95.2	69-170			
Carbon Disulfide	67.06	1.0	ug/L	103		65.3	72-162			Q3
Methylene Chloride	43.27	5.0	ug/L	50.0		86.5	68-142			
Acrylonitrile	77.56	5.0	ug/L	100		77.3	56-135			
trans-1,2-Dichloroethylene	45.12	1.0	ug/L	50.0		90.2	66-148			
1,1-Dichloroethane	44.18	1.0	ug/L	50.0		88.4	66-143			
Vinyl Acetate	91.56	5.0	ug/L	100		91.6	43-153			
cis-1,2-Dichloroethylene	44.44	1.0	ug/L	50.0		88.9	71-149			
2-Butanone (MEK)	92.08	10.0	ug/L	102		90.5	52-159			
Bromochloromethane	43.62	1.0	ug/L	50.0		87.2	69-143			
Chloroform	44.14	1.0	ug/L	50.0		88.3	69-144			
1,1,1-Trichloroethane	44.67	1.0	ug/L	50.0		89.3	62-129			
Carbon Tetrachloride	45.86	1.0	ug/L	50.0		91.7	63-141			
Benzene	48.01	1.0	ug/L	50.0		96.0	71-134			
1,2-Dichloroethane	52.15	1.0	ug/L	50.0		104	72-132			
Trichloroethylene	47.37	1.0	ug/L	50.0		94.7	71-135			
1,2-Dichloropropane	45.95	1.0	ug/L	50.0		91.9	69-136			
Dibromomethane	48.86	1.0	ug/L	50.0		97.7	73-147			
Bromodichloromethane	47.09	1.0	ug/L	50.0		94.2	68-129			
cis-1,3-Dichloropropene	45.20	1.0	ug/L	50.0		90.4	65-134			
4-Methyl-2-pentanone (MIBK)	102.1	5.0	ug/L	100		102	58-147			
Toluene	46.37	1.0	ug/L	50.0		92.7	72-133			
trans-1,3-Dichloropropene	46.70	1.0	ug/L	50.0		93.4	67-130			
1,1,2-Trichloroethane	46.58	1.0	ug/L	50.0		93.2	69-135			
Tetrachloroethylene	50.31	1.0	ug/L	50.0		101	69-130			
2-Hexanone (MBK)	101.6	5.0	ug/L	99.3		102	55-144			
Dibromochloromethane	48.07	1.0	ug/L	50.0		96.1	73-127			
1,2-Dibromoethane	48.68	1.0	ug/L	50.0		97.4	67-132			
Chlorobenzene	47.64	1.0	ug/L	50.0		95.3	72-123			
1,1,1,2-Tetrachloroethane	50.14	1.0	ug/L	50.0		100	73-127			
Ethylbenzene	50.00	1.0	ug/L	50.0		100	71-127			
Xylenes, total	144.8	2.0	ug/L	150		96.6	74-127			
Styrene	49.55	1.0	ug/L	50.0		99.1	66-126			
Bromoform	48.34	1.0	ug/L	50.0		96.7	68-130			
1,2,3-Trichloropropane	49.06	1.0	ug/L	50.0		98.1	63-136			
trans-1,4-Dichloro-2-butene	90.82	5.0	ug/L	103		88.3	54-134			
1,1,2,2-Tetrachloroethane	48.58	1.0	ug/L	50.0		97.2	61-131			
1,4-Dichlorobenzene	46.59	1.0	ug/L	50.0		93.2	70-129			
1,2-Dichlorobenzene	47.28	1.0	ug/L	50.0		94.6	69-126			
1,2-Dibromo-3-chloropropane	42.84	5.0	ug/L	50.0		85.7	50-143			
Surrogate: Dibromofluoromethane	*46.3*		ug/L	*50.2*		*92.2*	*57-134*			

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1HJ1301 - EPA 5030B - EPA 8260B										
LCS (1HJ1301-BS1)			Prepared: 10/21/24 00:00 Analyzed: 10/21/24 10:02							
Surrogate: Dibromofluoromethane	*46.3*		ug/L	*50.2*		*92.2*	*75-136*			
Surrogate: 1,2-Dichloroethane-d4	*47.2*		ug/L	*50.4*		*93.8*	*53-140*			
Surrogate: 1,2-Dichloroethane-d4	*47.2*		ug/L	*50.4*		*93.8*	*61-142*			
Surrogate: Toluene-d8	*49.2*		ug/L	*50.5*		*97.4*	*86-114*			
Surrogate: Toluene-d8	*49.2*		ug/L	*50.5*		*97.4*	*82-121*			
Surrogate: 4-Bromofluorobenzene	*49.4*		ug/L	*50.2*		*98.5*	*78-121*			
Surrogate: 4-Bromofluorobenzene	*49.4*		ug/L	*50.2*		*98.5*	*80-116*			
LCS (1HJ1301-BS2)			Prepared: 10/21/24 00:00 Analyzed: 10/22/24 00:15							
Chloromethane	35.79	1.0	ug/L	30.0		119	63-155			
Vinyl Chloride	33.44	1.0	ug/L	30.0		111	70-154			
Bromomethane	38.13	1.0	ug/L	30.0		127	52-176			
Chloroethane	28.96	1.0	ug/L	30.0		96.5	72-148			
Trichlorofluoromethane	26.87	1.0	ug/L	30.0		89.6	70-152			
1,1-Dichloroethylene	50.89	1.0	ug/L	50.0		102	70-148			
Acetone	117.9	10.0	ug/L	101		116	43-172			
Methyl Iodide	110.5	1.0	ug/L	102		108	69-170			
Carbon Disulfide	76.48	1.0	ug/L	103		74.5	72-162			
Methylene Chloride	51.38	5.0	ug/L	50.0		103	68-142			
Acrylonitrile	90.93	5.0	ug/L	100		90.6	56-135			
trans-1,2-Dichloroethylene	53.17	1.0	ug/L	50.0		106	66-148			
1,1-Dichloroethane	52.88	1.0	ug/L	50.0		106	66-143			
Vinyl Acetate	102.8	5.0	ug/L	100		103	43-153			
cis-1,2-Dichloroethylene	51.62	1.0	ug/L	50.0		103	71-149			
2-Butanone (MEK)	110.8	10.0	ug/L	102		109	52-159			
Bromochloromethane	52.57	1.0	ug/L	50.0		105	69-143			
Chloroform	52.26	1.0	ug/L	50.0		105	69-144			
1,1,1-Trichloroethane	51.69	1.0	ug/L	50.0		103	62-129			
Carbon Tetrachloride	52.38	1.0	ug/L	50.0		105	63-141			
Benzene	53.07	1.0	ug/L	50.0		106	71-134			
1,2-Dichloroethane	56.57	1.0	ug/L	50.0		113	72-132			
Trichloroethylene	50.92	1.0	ug/L	50.0		102	71-135			
1,2-Dichloropropane	51.66	1.0	ug/L	50.0		103	69-136			
Dibromomethane	53.48	1.0	ug/L	50.0		107	73-147			
Bromodichloromethane	52.33	1.0	ug/L	50.0		105	68-129			
cis-1,3-Dichloropropene	48.84	1.0	ug/L	50.0		97.7	65-134			
4-Methyl-2-pentanone (MIBK)	113.2	5.0	ug/L	100		113	58-147			
Toluene	51.24	1.0	ug/L	50.0		102	72-133			
trans-1,3-Dichloropropene	49.52	1.0	ug/L	50.0		99.0	67-130			
1,1,2-Trichloroethane	51.38	1.0	ug/L	50.0		103	69-135			
Tetrachloroethylene	51.58	1.0	ug/L	50.0		103	69-130			
2-Hexanone (MBK)	108.5	5.0	ug/L	99.3		109	55-144			
Dibromochloromethane	51.28	1.0	ug/L	50.0		103	73-127			
1,2-Dibromoethane	51.91	1.0	ug/L	50.0		104	67-132			

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1HJ1301 - EPA 5030B - EPA 8260B										
LCS (1HJ1301-BS2)				Prepared: 10/21/24 00:00 Analyzed: 10/22/24 00:15						
Chlorobenzene	50.99	1.0	ug/L	50.0		102	72-123			
1,1,1,2-Tetrachloroethane	53.59	1.0	ug/L	50.0		107	73-127			
Ethylbenzene	53.82	1.0	ug/L	50.0		108	71-127			
Xylenes, total	156.5	2.0	ug/L	150		104	74-127			
Styrene	53.57	1.0	ug/L	50.0		107	66-126			
Bromoform	50.30	1.0	ug/L	50.0		101	68-130			
1,2,3-Trichloropropane	52.59	1.0	ug/L	50.0		105	63-136			
trans-1,4-Dichloro-2-butene	95.70	5.0	ug/L	103		93.1	54-134			
1,1,2,2-Tetrachloroethane	51.76	1.0	ug/L	50.0		104	61-131			
1,4-Dichlorobenzene	49.42	1.0	ug/L	50.0		98.8	70-129			
1,2-Dichlorobenzene	50.44	1.0	ug/L	50.0		101	69-126			
1,2-Dibromo-3-chloropropane	45.00	5.0	ug/L	50.0		90.0	50-143			
Surrogate: Dibromofluoromethane	*51.3*		ug/L	*50.2*		*102*	*57-134*			
Surrogate: Dibromofluoromethane	*51.3*		ug/L	*50.2*		*102*	*75-136*			
Surrogate: 1,2-Dichloroethane-d4	*52.6*		ug/L	*50.4*		*104*	*53-140*			
Surrogate: 1,2-Dichloroethane-d4	*52.6*		ug/L	*50.4*		*104*	*61-142*			
Surrogate: Toluene-d8	*50.5*		ug/L	*50.5*		*100*	*86-114*			
Surrogate: Toluene-d8	*50.5*		ug/L	*50.5*		*100*	*82-121*			
Surrogate: 4-Bromofluorobenzene	*49.9*		ug/L	*50.2*		*99.4*	*78-121*			
Surrogate: 4-Bromofluorobenzene	*49.9*		ug/L	*50.2*		*99.4*	*80-116*			
LCS Dup (1HJ1301-BSD1)				Prepared: 10/21/24 00:00 Analyzed: 10/21/24 10:24						
Chloromethane	28.77	1.0	ug/L	30.0		95.9	63-155	4.65	24	
Vinyl Chloride	27.81	1.0	ug/L	30.0		92.7	70-154	4.05	25	
Bromomethane	32.00	1.0	ug/L	30.0		107	52-176	3.44	27	
Chloroethane	23.72	1.0	ug/L	30.0		79.1	72-148	4.73	25	
Trichlorofluoromethane	23.08	1.0	ug/L	30.0		76.9	70-152	5.31	26	
1,1-Dichloroethylene	42.78	1.0	ug/L	50.0		85.6	70-148	3.83	24	
Acetone	96.37	10.0	ug/L	101		95.2	43-172	3.03	30	
Methyl Iodide	94.39	1.0	ug/L	102		92.7	69-170	2.72	30	
Carbon Disulfide	64.32	1.0	ug/L	103		62.6	72-162	4.17	24	Q3
Methylene Chloride	42.95	5.0	ug/L	50.0		85.9	68-142	0.742	21	
Acrylonitrile	76.96	5.0	ug/L	100		76.7	56-135	0.777	16	
trans-1,2-Dichloroethylene	43.93	1.0	ug/L	50.0		87.9	66-148	2.67	27	
1,1-Dichloroethane	43.12	1.0	ug/L	50.0		86.2	66-143	2.43	24	
Vinyl Acetate	91.64	5.0	ug/L	100		91.6	43-153	0.0873	30	
cis-1,2-Dichloroethylene	44.31	1.0	ug/L	50.0		88.6	71-149	0.293	26	
2-Butanone (MEK)	93.49	10.0	ug/L	102		91.8	52-159	1.52	27	
Bromochloromethane	43.36	1.0	ug/L	50.0		86.7	69-143	0.598	23	
Chloroform	43.75	1.0	ug/L	50.0		87.5	69-144	0.887	23	
1,1,1-Trichloroethane	44.07	1.0	ug/L	50.0		88.1	62-129	1.35	24	
Carbon Tetrachloride	45.28	1.0	ug/L	50.0		90.6	63-141	1.27	25	
Benzene	47.83	1.0	ug/L	50.0		95.7	71-134	0.376	24	
1,2-Dichloroethane	53.08	1.0	ug/L	50.0		106	72-132	1.77	24	

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1HJ1301 - EPA 5030B - EPA 8260B										
LCS Dup (1HJ1301-BSD1)				Prepared: 10/21/24 00:00 Analyzed: 10/21/24 10:24						
Trichloroethylene	46.95	1.0	ug/L	50.0		93.9	71-135	0.891	24	
1,2-Dichloropropane	46.23	1.0	ug/L	50.0		92.5	69-136	0.608	24	
Dibromomethane	49.75	1.0	ug/L	50.0		99.5	73-147	1.81	25	
Bromodichloromethane	48.03	1.0	ug/L	50.0		96.1	68-129	1.98	22	
cis-1,3-Dichloropropene	45.81	1.0	ug/L	50.0		91.6	65-134	1.34	23	
4-Methyl-2-pentanone (MIBK)	103.6	5.0	ug/L	100		104	58-147	1.44	27	
Toluene	46.51	1.0	ug/L	50.0		93.0	72-133	0.301	24	
trans-1,3-Dichloropropene	47.51	1.0	ug/L	50.0		95.0	67-130	1.72	24	
1,1,2-Trichloroethane	47.32	1.0	ug/L	50.0		94.6	69-135	1.58	23	
Tetrachloroethylene	50.18	1.0	ug/L	50.0		100	69-130	0.259	25	
2-Hexanone (MBK)	102.9	5.0	ug/L	99.3		104	55-144	1.24	25	
Dibromochloromethane	49.60	1.0	ug/L	50.0		99.2	73-127	3.13	22	
1,2-Dibromoethane	50.07	1.0	ug/L	50.0		100	67-132	2.82	24	
Chlorobenzene	48.07	1.0	ug/L	50.0		96.1	72-123	0.899	23	
1,1,1,2-Tetrachloroethane	51.22	1.0	ug/L	50.0		102	73-127	2.13	24	
Ethylbenzene	50.70	1.0	ug/L	50.0		101	71-127	1.39	26	
Xylenes, total	147.0	2.0	ug/L	150		98.0	74-127	1.45	25	
Styrene	50.75	1.0	ug/L	50.0		102	66-126	2.39	23	
Bromoform	50.28	1.0	ug/L	50.0		101	68-130	3.93	23	
1,2,3-Trichloropropane	49.77	1.0	ug/L	50.0		99.5	63-136	1.44	24	
trans-1,4-Dichloro-2-butene	92.71	5.0	ug/L	103		90.2	54-134	2.06	27	
1,1,2,2-Tetrachloroethane	49.96	1.0	ug/L	50.0		99.9	61-131	2.80	29	
1,4-Dichlorobenzene	47.87	1.0	ug/L	50.0		95.7	70-129	2.71	24	
1,2-Dichlorobenzene	48.91	1.0	ug/L	50.0		97.8	69-126	3.39	26	
1,2-Dibromo-3-chloropropane	44.18	5.0	ug/L	50.0		88.4	50-143	3.08	30	
Surrogate: Dibromofluoromethane	*45.8*		ug/L	*50.2*		*91.2*	*57-134*			
Surrogate: Dibromofluoromethane	*45.8*		ug/L	*50.2*		*91.2*	*75-136*			
Surrogate: 1,2-Dichloroethane-d4	*47.2*		ug/L	*50.4*		*93.8*	*53-140*			
Surrogate: 1,2-Dichloroethane-d4	*47.2*		ug/L	*50.4*		*93.8*	*61-142*			
Surrogate: Toluene-d8	*49.4*		ug/L	*50.5*		*97.9*	*86-114*			
Surrogate: Toluene-d8	*49.4*		ug/L	*50.5*		*97.9*	*82-121*			
Surrogate: 4-Bromofluorobenzene	*50.0*		ug/L	*50.2*		*99.6*	*78-121*			
Surrogate: 4-Bromofluorobenzene	*50.0*		ug/L	*50.2*		*99.6*	*80-116*			
LCS Dup (1HJ1301-BSD2)				Prepared: 10/21/24 00:00 Analyzed: 10/22/24 00:38						
Chloromethane	34.06	1.0	ug/L	30.0		114	63-155	4.95	24	
Vinyl Chloride	32.00	1.0	ug/L	30.0		107	70-154	4.40	25	
Bromomethane	36.39	1.0	ug/L	30.0		121	52-176	4.67	27	
Chloroethane	27.79	1.0	ug/L	30.0		92.6	72-148	4.12	25	
Trichlorofluoromethane	26.03	1.0	ug/L	30.0		86.8	70-152	3.18	26	
1,1-Dichloroethylene	49.28	1.0	ug/L	50.0		98.6	70-148	3.21	24	
Acetone	119.2	10.0	ug/L	101		118	43-172	1.10	30	
Methyl Iodide	107.9	1.0	ug/L	102		106	69-170	2.35	30	
Carbon Disulfide	73.31	1.0	ug/L	103		71.4	72-162	4.23	24	Q3

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1HJ1301 - EPA 5030B - EPA 8260B										
LCS Dup (1HJ1301-BSD2)				Prepared: 10/21/24 00:00 Analyzed: 10/22/24 00:38						
Methylene Chloride	49.96	5.0	ug/L	50.0		99.9	68-142	2.80	21	
Acrylonitrile	90.42	5.0	ug/L	100		90.1	56-135	0.562	16	
trans-1,2-Dichloroethylene	51.34	1.0	ug/L	50.0		103	66-148	3.50	27	
1,1-Dichloroethane	51.18	1.0	ug/L	50.0		102	66-143	3.27	24	
Vinyl Acetate	102.6	5.0	ug/L	100		103	43-153	0.175	30	
cis-1,2-Dichloroethylene	50.04	1.0	ug/L	50.0		100	71-149	3.11	26	
2-Butanone (MEK)	111.1	10.0	ug/L	102		109	52-159	0.325	27	
Bromochloromethane	52.20	1.0	ug/L	50.0		104	69-143	0.706	23	
Chloroform	51.33	1.0	ug/L	50.0		103	69-144	1.80	23	
1,1,1-Trichloroethane	50.04	1.0	ug/L	50.0		100	62-129	3.24	24	
Carbon Tetrachloride	50.53	1.0	ug/L	50.0		101	63-141	3.60	25	
Benzene	52.09	1.0	ug/L	50.0		104	71-134	1.86	24	
1,2-Dichloroethane	56.17	1.0	ug/L	50.0		112	72-132	0.710	24	
Trichloroethylene	50.28	1.0	ug/L	50.0		101	71-135	1.26	24	
1,2-Dichloropropane	51.01	1.0	ug/L	50.0		102	69-136	1.27	24	
Dibromomethane	52.98	1.0	ug/L	50.0		106	73-147	0.939	25	
Bromodichloromethane	51.57	1.0	ug/L	50.0		103	68-129	1.46	22	
cis-1,3-Dichloropropene	48.44	1.0	ug/L	50.0		96.9	65-134	0.822	23	
4-Methyl-2-pentanone (MIBK)	114.8	5.0	ug/L	100		115	58-147	1.37	27	
Toluene	50.29	1.0	ug/L	50.0		101	72-133	1.87	24	
trans-1,3-Dichloropropene	49.53	1.0	ug/L	50.0		99.1	67-130	0.0202	24	
1,1,2-Trichloroethane	51.06	1.0	ug/L	50.0		102	69-135	0.625	23	
Tetrachloroethylene	49.89	1.0	ug/L	50.0		99.8	69-130	3.33	25	
2-Hexanone (MBK)	110.0	5.0	ug/L	99.3		111	55-144	1.37	25	
Dibromochloromethane	50.52	1.0	ug/L	50.0		101	73-127	1.49	22	
1,2-Dibromoethane	51.35	1.0	ug/L	50.0		103	67-132	1.08	24	
Chlorobenzene	49.99	1.0	ug/L	50.0		100	72-123	1.98	23	
1,1,1,2-Tetrachloroethane	52.40	1.0	ug/L	50.0		105	73-127	2.25	24	
Ethylbenzene	52.53	1.0	ug/L	50.0		105	71-127	2.43	26	
Xylenes, total	153.2	2.0	ug/L	150		102	74-127	2.13	25	
Styrene	52.68	1.0	ug/L	50.0		105	66-126	1.68	23	
Bromoform	50.29	1.0	ug/L	50.0		101	68-130	0.0199	23	
1,2,3-Trichloropropane	51.72	1.0	ug/L	50.0		103	63-136	1.67	24	
trans-1,4-Dichloro-2-butene	94.84	5.0	ug/L	103		92.3	54-134	0.903	27	
1,1,2,2-Tetrachloroethane	51.28	1.0	ug/L	50.0		103	61-131	0.932	29	
1,4-Dichlorobenzene	48.86	1.0	ug/L	50.0		97.7	70-129	1.14	24	
1,2-Dichlorobenzene	49.66	1.0	ug/L	50.0		99.3	69-126	1.56	26	
1,2-Dibromo-3-chloropropane	45.25	5.0	ug/L	50.0		90.5	50-143	0.554	30	
Surrogate: Dibromofluoromethane	*50.6*		ug/L	*50.2*		*101*	*57-134*			
Surrogate: Dibromofluoromethane	*50.6*		ug/L	*50.2*		*101*	*75-136*			
Surrogate: 1,2-Dichloroethane-d4	*52.5*		ug/L	*50.4*		*104*	*53-140*			
Surrogate: 1,2-Dichloroethane-d4	*52.5*		ug/L	*50.4*		*104*	*61-142*			
Surrogate: Toluene-d8	*51.0*		ug/L	*50.5*		*101*	*86-114*			

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1HJ1301 - EPA 5030B - EPA 8260B										
LCS Dup (1HJ1301-BSD2)			Prepared: 10/21/24 00:00 Analyzed: 10/22/24 00:38							
Surrogate: Toluene-d8	*51.0*		ug/L	*50.5*		*101*	*82-121*			
Surrogate: 4-Bromofluorobenzene	*49.6*		ug/L	*50.2*		*98.8*	*78-121*			
Surrogate: 4-Bromofluorobenzene	*49.6*		ug/L	*50.2*		*98.8*	*80-116*			
Matrix Spike (1HJ1301-MS1)	**Source: 1HJ1342-01**		Prepared: 10/21/24 00:00 Analyzed: 10/22/24 04:24							
Chloromethane	357.8	10.0	ug/L	300	ND	119	61-152			
Vinyl Chloride	334.2	10.0	ug/L	300	ND	111	66-149			
Bromomethane	359.2	10.0	ug/L	300	ND	120	43-171			
Chloroethane	288.5	10.0	ug/L	300	ND	96.2	69-148			
Trichlorofluoromethane	274.5	10.0	ug/L	300	ND	91.5	62-163			
1,1-Dichloroethylene	511.5	10.0	ug/L	500	ND	102	70-148			
Acetone	1189	100	ug/L	1010	ND	118	45-173			
Methyl Iodide	1049	10.0	ug/L	1020	ND	103	62-167			
Carbon Disulfide	765.6	10.0	ug/L	1030	ND	74.5	71-163			
Methylene Chloride	513.6	50.0	ug/L	500	ND	103	69-140			
Acrylonitrile	903.2	50.0	ug/L	1000	ND	90.0	38-147			
trans-1,2-Dichloroethylene	528.2	10.0	ug/L	500	ND	106	69-144			
1,1-Dichloroethane	526.6	10.0	ug/L	500	ND	105	70-138			
Vinyl Acetate	1006	50.0	ug/L	1000	ND	101	58-142			
cis-1,2-Dichloroethylene	505.4	10.0	ug/L	500	ND	101	68-151			
2-Butanone (MEK)	1048	100	ug/L	1020	ND	103	50-160			
Bromochloromethane	526.0	10.0	ug/L	500	ND	105	65-143			
Chloroform	516.2	10.0	ug/L	500	ND	103	71-143			
1,1,1-Trichloroethane	511.6	10.0	ug/L	500	ND	102	63-133			
Carbon Tetrachloride	520.3	10.0	ug/L	500	ND	104	63-142			
Benzene	530.0	10.0	ug/L	500	ND	106	69-133			
1,2-Dichloroethane	566.1	10.0	ug/L	500	ND	113	63-138			
Trichloroethylene	507.9	10.0	ug/L	500	ND	102	71-133			
1,2-Dichloropropane	509.9	10.0	ug/L	500	ND	102	69-132			
Dibromomethane	530.2	10.0	ug/L	500	ND	106	70-147			
Bromodichloromethane	513.7	10.0	ug/L	500	ND	103	67-130			
cis-1,3-Dichloropropene	469.8	10.0	ug/L	500	ND	94.0	61-126			
4-Methyl-2-pentanone (MIBK)	1094	50.0	ug/L	1000	ND	109	55-147			
Toluene	506.5	10.0	ug/L	500	ND	101	71-133			
trans-1,3-Dichloropropene	481.3	10.0	ug/L	500	ND	96.3	63-124			
1,1,2-Trichloroethane	509.0	10.0	ug/L	500	ND	102	69-133			
Tetrachloroethylene	511.4	10.0	ug/L	500	ND	102	70-124			
2-Hexanone (MBK)	1044	50.0	ug/L	993	ND	105	53-141			
Dibromochloromethane	505.4	10.0	ug/L	500	ND	101	74-122			
1,2-Dibromoethane	510.0	10.0	ug/L	500	ND	102	66-127			
Chlorobenzene	504.8	10.0	ug/L	500	ND	101	76-116			
1,1,1,2-Tetrachloroethane	523.4	10.0	ug/L	500	ND	105	77-121			
Ethylbenzene	533.7	10.0	ug/L	500	ND	107	73-124			

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1HJ1301 - EPA 5030B - EPA 8260B										
Matrix Spike (1HJ1301-MS1)	**Source: 1HJ1342-01**		Prepared: 10/21/24 00:00 Analyzed: 10/22/24 04:24							
Xylenes, total	1545	20.0	ug/L	1500	ND	103	75-123			
Styrene	527.4	10.0	ug/L	500	ND	105	70-120			
Bromoform	492.6	10.0	ug/L	500	ND	98.5	70-124			
1,2,3-Trichloropropane	506.6	10.0	ug/L	500	ND	101	62-135			
trans-1,4-Dichloro-2-butene	898.2	50.0	ug/L	1030	ND	87.4	50-120			
1,1,2,2-Tetrachloroethane	506.0	10.0	ug/L	500	ND	101	63-126			
1,4-Dichlorobenzene	486.9	10.0	ug/L	500	ND	97.4	72-119			
1,2-Dichlorobenzene	504.8	10.0	ug/L	500	ND	101	71-117			
1,2-Dibromo-3-chloropropane	439.0	50.0	ug/L	500	ND	87.8	49-134			
Surrogate: Dibromofluoromethane	*514*		ug/L	*502*		*102*	*57-134*			
Surrogate: Dibromofluoromethane	*514*		ug/L	*502*		*102*	*75-136*			
Surrogate: 1,2-Dichloroethane-d4	*529*		ug/L	*504*		*105*	*53-140*			
Surrogate: 1,2-Dichloroethane-d4	*529*		ug/L	*504*		*105*	*61-142*			
Surrogate: Toluene-d8	*509*		ug/L	*505*		*101*	*86-114*			
Surrogate: Toluene-d8	*509*		ug/L	*505*		*101*	*82-121*			
Surrogate: 4-Bromofluorobenzene	*497*		ug/L	*502*		*99.0*	*78-121*			
Surrogate: 4-Bromofluorobenzene	*497*		ug/L	*502*		*99.0*	*80-116*			
Matrix Spike (1HJ1301-MS2)	**Source: 1HJ1340-05**		Prepared: 10/21/24 00:00 Analyzed: 10/22/24 05:09							
Chloromethane	347.5	10.0	ug/L	300	ND	116	61-152			
Vinyl Chloride	335.4	10.0	ug/L	300	ND	112	66-149			
Bromomethane	366.9	10.0	ug/L	300	ND	122	43-171			
Chloroethane	286.2	10.0	ug/L	300	ND	95.4	69-148			
Trichlorofluoromethane	275.3	10.0	ug/L	300	ND	91.8	62-163			
1,1-Dichloroethylene	516.7	10.0	ug/L	500	ND	103	70-148			
Acetone	1222	100	ug/L	1010	ND	121	45-173			
Methyl Iodide	1093	10.0	ug/L	1020	ND	107	62-167			
Carbon Disulfide	775.1	10.0	ug/L	1030	ND	75.5	71-163			
Methylene Chloride	518.8	50.0	ug/L	500	ND	104	69-140			
Acrylonitrile	931.7	50.0	ug/L	1000	ND	92.8	38-147			
trans-1,2-Dichloroethylene	537.6	10.0	ug/L	500	ND	108	69-144			
1,1-Dichloroethane	535.3	10.0	ug/L	500	ND	107	70-138			
Vinyl Acetate	1044	50.0	ug/L	1000	ND	104	58-142			
cis-1,2-Dichloroethylene	516.5	10.0	ug/L	500	ND	103	68-151			
2-Butanone (MEK)	1102	100	ug/L	1020	ND	108	50-160			
Bromochloromethane	533.9	10.0	ug/L	500	ND	107	65-143			
Chloroform	527.5	10.0	ug/L	500	ND	106	71-143			
1,1,1-Trichloroethane	524.3	10.0	ug/L	500	ND	105	63-133			
Carbon Tetrachloride	536.0	10.0	ug/L	500	ND	107	63-142			
Benzene	535.6	10.0	ug/L	500	ND	107	69-133			
1,2-Dichloroethane	577.4	10.0	ug/L	500	ND	115	63-138			
Trichloroethylene	515.3	10.0	ug/L	500	ND	103	71-133			
1,2-Dichloropropane	520.9	10.0	ug/L	500	ND	104	69-132			
Dibromomethane	538.8	10.0	ug/L	500	ND	108	70-147			

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1HJ1301 - EPA 5030B - EPA 8260B										
Matrix Spike (1HJ1301-MS2)	**Source: 1HJ1340-05**	Prepared: 10/21/24 00:00 Analyzed: 10/22/24 05:09								
Bromodichloromethane	524.5	10.0	ug/L	500	ND	105	67-130			
cis-1,3-Dichloropropene	483.7	10.0	ug/L	500	ND	96.7	61-126			
4-Methyl-2-pentanone (MIBK)	1146	50.0	ug/L	1000	ND	115	55-147			
Toluene	518.7	10.0	ug/L	500	ND	104	71-133			
trans-1,3-Dichloropropene	496.1	10.0	ug/L	500	ND	99.2	63-124			
1,1,2-Trichloroethane	519.0	10.0	ug/L	500	ND	104	69-133			
Tetrachloroethylene	525.7	10.0	ug/L	500	ND	105	70-124			
2-Hexanone (MBK)	1112	50.0	ug/L	993	ND	112	53-141			
Dibromochloromethane	522.0	10.0	ug/L	500	ND	104	74-122			
1,2-Dibromoethane	528.2	10.0	ug/L	500	ND	106	66-127			
Chlorobenzene	516.0	10.0	ug/L	500	ND	103	76-116			
1,1,1,2-Tetrachloroethane	538.7	10.0	ug/L	500	ND	108	77-121			
Ethylbenzene	549.3	10.0	ug/L	500	ND	110	73-124			
Xylenes, total	1596	20.0	ug/L	1500	ND	106	75-123			
Styrene	545.0	10.0	ug/L	500	ND	109	70-120			
Bromoform	508.8	10.0	ug/L	500	ND	102	70-124			
1,2,3-Trichloropropane	534.2	10.0	ug/L	500	ND	107	62-135			
trans-1,4-Dichloro-2-butene	953.8	50.0	ug/L	1030	ND	92.8	50-120			
1,1,2,2-Tetrachloroethane	529.2	10.0	ug/L	500	ND	106	63-126			
1,4-Dichlorobenzene	504.5	10.0	ug/L	500	ND	101	72-119			
1,2-Dichlorobenzene	518.5	10.0	ug/L	500	ND	104	71-117			
1,2-Dibromo-3-chloropropane	464.1	50.0	ug/L	500	ND	92.8	49-134			
Surrogate: Dibromofluoromethane	*508*		ug/L	*502*		*101*	*57-134*			
Surrogate: Dibromofluoromethane	*508*		ug/L	*502*		*101*	*75-136*			
Surrogate: 1,2-Dichloroethane-d4	*527*		ug/L	*504*		*105*	*53-140*			
Surrogate: 1,2-Dichloroethane-d4	*527*		ug/L	*504*		*105*	*61-142*			
Surrogate: Toluene-d8	*507*		ug/L	*505*		*101*	*86-114*			
Surrogate: Toluene-d8	*507*		ug/L	*505*		*101*	*82-121*			
Surrogate: 4-Bromofluorobenzene	*498*		ug/L	*502*		*99.4*	*78-121*			
Surrogate: 4-Bromofluorobenzene	*498*		ug/L	*502*		*99.4*	*80-116*			
Matrix Spike Dup (1HJ1301-MSD1)	**Source: 1HJ1342-01**	Prepared: 10/21/24 00:00 Analyzed: 10/22/24 04:47								
Chloromethane	338.4	10.0	ug/L	300	ND	113	61-152	5.57	26	
Vinyl Chloride	322.6	10.0	ug/L	300	ND	108	66-149	3.53	23	
Bromomethane	355.2	10.0	ug/L	300	ND	118	43-171	1.12	29	
Chloroethane	275.2	10.0	ug/L	300	ND	91.7	69-148	4.72	25	
Trichlorofluoromethane	265.5	10.0	ug/L	300	ND	88.5	62-163	3.33	25	
1,1-Dichloroethylene	492.8	10.0	ug/L	500	ND	98.6	70-148	3.72	22	
Acetone	1172	100	ug/L	1010	ND	116	45-173	1.50	30	
Methyl Iodide	1055	10.0	ug/L	1020	ND	104	62-167	0.618	24	
Carbon Disulfide	744.0	10.0	ug/L	1030	ND	72.4	71-163	2.86	22	
Methylene Chloride	501.1	50.0	ug/L	500	ND	100	69-140	2.46	19	
Acrylonitrile	894.9	50.0	ug/L	1000	ND	89.1	38-147	0.923	30	
trans-1,2-Dichloroethylene	516.5	10.0	ug/L	500	ND	103	69-144	2.24	22	

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1HJ1301 - EPA 5030B - EPA 8260B										
Matrix Spike Dup (1HJ1301-MSD1)	**Source: 1HJ1342-01**		Prepared: 10/21/24 00:00 Analyzed: 10/22/24 04:47							
1,1-Dichloroethane	509.5	10.0	ug/L	500	ND	102	70-138	3.30	20	
Vinyl Acetate	1004	50.0	ug/L	1000	ND	100	58-142	0.189	24	
cis-1,2-Dichloroethylene	502.3	10.0	ug/L	500	ND	100	68-151	0.615	22	
2-Butanone (MEK)	1066	100	ug/L	1020	ND	105	50-160	1.74	23	
Bromochloromethane	527.1	10.0	ug/L	500	ND	105	65-143	0.209	22	
Chloroform	509.8	10.0	ug/L	500	ND	102	71-143	1.25	21	
1,1,1-Trichloroethane	505.3	10.0	ug/L	500	ND	101	63-133	1.24	23	
Carbon Tetrachloride	512.1	10.0	ug/L	500	ND	102	63-142	1.59	22	
Benzene	511.3	10.0	ug/L	500	ND	102	69-133	3.59	18	
1,2-Dichloroethane	559.4	10.0	ug/L	500	ND	112	63-138	1.19	20	
Trichloroethylene	494.4	10.0	ug/L	500	ND	98.9	71-133	2.69	23	
1,2-Dichloropropane	505.6	10.0	ug/L	500	ND	101	69-132	0.847	20	
Dibromomethane	527.3	10.0	ug/L	500	ND	105	70-147	0.548	22	
Bromodichloromethane	509.6	10.0	ug/L	500	ND	102	67-130	0.801	21	
cis-1,3-Dichloropropene	470.1	10.0	ug/L	500	ND	94.0	61-126	0.0638	21	
4-Methyl-2-pentanone (MIBK)	1099	50.0	ug/L	1000	ND	110	55-147	0.447	23	
Toluene	493.5	10.0	ug/L	500	ND	98.7	71-133	2.60	19	
trans-1,3-Dichloropropene	482.6	10.0	ug/L	500	ND	96.5	63-124	0.270	21	
1,1,2-Trichloroethane	502.7	10.0	ug/L	500	ND	101	69-133	1.25	19	
Tetrachloroethylene	506.9	10.0	ug/L	500	ND	101	70-124	0.884	24	
2-Hexanone (MBK)	1045	50.0	ug/L	993	ND	105	53-141	0.0766	24	
Dibromochloromethane	506.2	10.0	ug/L	500	ND	101	74-122	0.158	21	
1,2-Dibromoethane	513.8	10.0	ug/L	500	ND	103	66-127	0.742	23	
Chlorobenzene	497.7	10.0	ug/L	500	ND	99.5	76-116	1.42	21	
1,1,1,2-Tetrachloroethane	522.6	10.0	ug/L	500	ND	105	77-121	0.153	25	
Ethylbenzene	525.0	10.0	ug/L	500	ND	105	73-124	1.64	20	
Xylenes, total	1527	20.0	ug/L	1500	ND	102	75-123	1.16	20	
Styrene	524.3	10.0	ug/L	500	ND	105	70-120	0.590	23	
Bromoform	498.5	10.0	ug/L	500	ND	99.7	70-124	1.19	22	
1,2,3-Trichloropropane	517.3	10.0	ug/L	500	ND	103	62-135	2.09	28	
trans-1,4-Dichloro-2-butene	912.3	50.0	ug/L	1030	ND	88.7	50-120	1.56	26	
1,1,2,2-Tetrachloroethane	512.7	10.0	ug/L	500	ND	103	63-126	1.32	24	
1,4-Dichlorobenzene	484.4	10.0	ug/L	500	ND	96.9	72-119	0.515	24	
1,2-Dichlorobenzene	499.1	10.0	ug/L	500	ND	99.8	71-117	1.14	24	
1,2-Dibromo-3-chloropropane	434.2	50.0	ug/L	500	ND	86.8	49-134	1.10	28	
Surrogate: Dibromofluoromethane	*512*		ug/L	*502*		*102*	*57-134*			
Surrogate: Dibromofluoromethane	*512*		ug/L	*502*		*102*	*75-136*			
Surrogate: 1,2-Dichloroethane-d4	*531*		ug/L	*504*		*105*	*53-140*			
Surrogate: 1,2-Dichloroethane-d4	*531*		ug/L	*504*		*105*	*61-142*			
Surrogate: Toluene-d8	*501*		ug/L	*505*		*99.4*	*86-114*			
Surrogate: Toluene-d8	*501*		ug/L	*505*		*99.4*	*82-121*			
Surrogate: 4-Bromofluorobenzene	*500*		ug/L	*502*		*99.7*	*78-121*			
Surrogate: 4-Bromofluorobenzene	*500*		ug/L	*502*		*99.7*	*80-116*			

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1HJ1301 - EPA 5030B - EPA 8260B										
Matrix Spike Dup (1HJ1301-MSD2)	**Source: 1HJ1340-05**		Prepared: 10/21/24 00:00 Analyzed: 10/22/24 05:32							
Chloromethane	337.5	10.0	ug/L	300	ND	112	61-152	2.92	26	
Vinyl Chloride	315.4	10.0	ug/L	300	ND	105	66-149	6.15	23	
Bromomethane	355.1	10.0	ug/L	300	ND	118	43-171	3.27	29	
Chloroethane	281.7	10.0	ug/L	300	ND	93.9	69-148	1.58	25	
Trichlorofluoromethane	262.5	10.0	ug/L	300	ND	87.5	62-163	4.76	25	
1,1-Dichloroethylene	494.6	10.0	ug/L	500	ND	98.9	70-148	4.37	22	
Acetone	1220	100	ug/L	1010	ND	121	45-173	0.139	30	
Methyl Iodide	1068	10.0	ug/L	1020	ND	105	62-167	2.38	24	
Carbon Disulfide	745.3	10.0	ug/L	1030	ND	72.6	71-163	3.92	22	
Methylene Chloride	510.6	50.0	ug/L	500	ND	102	69-140	1.59	19	
Acrylonitrile	918.8	50.0	ug/L	1000	ND	91.5	38-147	1.39	30	
trans-1,2-Dichloroethylene	518.9	10.0	ug/L	500	ND	104	69-144	3.54	22	
1,1-Dichloroethane	513.8	10.0	ug/L	500	ND	103	70-138	4.10	20	
Vinyl Acetate	1030	50.0	ug/L	1000	ND	103	58-142	1.37	24	
cis-1,2-Dichloroethylene	499.5	10.0	ug/L	500	ND	99.9	68-151	3.35	22	
2-Butanone (MEK)	1127	100	ug/L	1020	ND	111	50-160	2.23	23	
Bromochloromethane	529.1	10.0	ug/L	500	ND	106	65-143	0.903	22	
Chloroform	510.3	10.0	ug/L	500	ND	102	71-143	3.31	21	
1,1,1-Trichloroethane	505.3	10.0	ug/L	500	ND	101	63-133	3.69	23	
Carbon Tetrachloride	513.8	10.0	ug/L	500	ND	103	63-142	4.23	22	
Benzene	518.7	10.0	ug/L	500	ND	104	69-133	3.21	18	
1,2-Dichloroethane	570.9	10.0	ug/L	500	ND	114	63-138	1.13	20	
Trichloroethylene	499.2	10.0	ug/L	500	ND	99.8	71-133	3.17	23	
1,2-Dichloropropane	510.8	10.0	ug/L	500	ND	102	69-132	1.96	20	
Dibromomethane	540.7	10.0	ug/L	500	ND	108	70-147	0.352	22	
Bromodichloromethane	514.7	10.0	ug/L	500	ND	103	67-130	1.89	21	
cis-1,3-Dichloropropene	483.2	10.0	ug/L	500	ND	96.6	61-126	0.103	21	
4-Methyl-2-pentanone (MIBK)	1149	50.0	ug/L	1000	ND	115	55-147	0.218	23	
Toluene	499.6	10.0	ug/L	500	ND	99.9	71-133	3.75	19	
trans-1,3-Dichloropropene	495.5	10.0	ug/L	500	ND	99.1	63-124	0.121	21	
1,1,2-Trichloroethane	515.6	10.0	ug/L	500	ND	103	69-133	0.657	19	
Tetrachloroethylene	501.0	10.0	ug/L	500	ND	100	70-124	4.81	24	
2-Hexanone (MBK)	1110	50.0	ug/L	993	ND	112	53-141	0.198	24	
Dibromochloromethane	513.4	10.0	ug/L	500	ND	103	74-122	1.66	21	
1,2-Dibromoethane	532.2	10.0	ug/L	500	ND	106	66-127	0.754	23	
Chlorobenzene	501.1	10.0	ug/L	500	ND	100	76-116	2.93	21	
1,1,1,2-Tetrachloroethane	522.9	10.0	ug/L	500	ND	105	77-121	2.98	25	
Ethylbenzene	524.9	10.0	ug/L	500	ND	105	73-124	4.54	20	
Xylenes, total	1539	20.0	ug/L	1500	ND	103	75-123	3.66	20	
Styrene	531.3	10.0	ug/L	500	ND	106	70-120	2.55	23	
Bromoform	517.2	10.0	ug/L	500	ND	103	70-124	1.64	22	
1,2,3-Trichloropropane	534.6	10.0	ug/L	500	ND	107	62-135	0.0748	28	
trans-1,4-Dichloro-2-butene	943.8	50.0	ug/L	1030	ND	91.8	50-120	1.05	26	

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1HJ1301 - EPA 5030B - EPA 8260B										
Matrix Spike Dup (1HJ1301-MSD2)	**Source: 1HJ1340-05**	Prepared: 10/21/24 00:00 Analyzed: 10/22/24 05:32								
1,1,2,2-Tetrachloroethane	513.1	10.0	ug/L	500	ND	103	63-126	3.09	24	
1,4-Dichlorobenzene	487.6	10.0	ug/L	500	ND	97.5	72-119	3.41	24	
1,2-Dichlorobenzene	503.1	10.0	ug/L	500	ND	101	71-117	3.01	24	
1,2-Dibromo-3-chloropropane	455.6	50.0	ug/L	500	ND	91.1	49-134	1.85	28	
Surrogate: Dibromofluoromethane	*511*		ug/L	*502*		*102*	*57-134*			
Surrogate: Dibromofluoromethane	*511*		ug/L	*502*		*102*	*75-136*			
Surrogate: 1,2-Dichloroethane-d4	*531*		ug/L	*504*		*105*	*53-140*			
Surrogate: 1,2-Dichloroethane-d4	*531*		ug/L	*504*		*105*	*61-142*			
Surrogate: Toluene-d8	*507*		ug/L	*505*		*100*	*86-114*			
Surrogate: Toluene-d8	*507*		ug/L	*505*		*100*	*82-121*			
Surrogate: 4-Bromofluorobenzene	*498*		ug/L	*502*		*99.3*	*78-121*			
Surrogate: 4-Bromofluorobenzene	*498*		ug/L	*502*		*99.3*	*80-116*			

Determination of Chlorinated Phenoxy Herbicides	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1HJ1247 - EPA 8151A - EPA 8151A										
Blank (1HJ1247-BLK1)		Prepared: 10/21/24 16:08 Analyzed: 10/23/24 23:52								
2,4,5-T	<0.5	0.5	ug/L							
Surrogate: 2,5-Dichlorobenzoic Acid	*2.49*		ug/L	*2.02*		*123*	*36-159*			
LCS (1HJ1247-BS1)		Prepared: 10/21/24 16:08 Analyzed: 10/24/24 00:24								
2,4,5-T	0.52	0.5	ug/L	0.500		105	17-168			
Surrogate: 2,5-Dichlorobenzoic Acid	*2.45*		ug/L	*2.02*		*121*	*36-159*			
LCS Dup (1HJ1247-BSD1)		Prepared: 10/21/24 16:08 Analyzed: 10/24/24 00:56								
2,4,5-T	0.54	0.5	ug/L	0.500		108	17-168	2.82	30	
Surrogate: 2,5-Dichlorobenzoic Acid	*2.64*		ug/L	*2.02*		*130*	*36-159*			

Determination of Organochlorine Insecticides & Metabolites	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1HJ1198 - 3510C NP/OC Sep Fnl - EPA 8081										
Blank (1HJ1198-BLK1)		Prepared: 10/21/24 10:56 Analyzed: 10/28/24 16:56								
Gamma-Chlordane	<0.05	0.05	ug/L							
Endosulfan I	<0.05	0.05	ug/L							
Surrogate: Tetrachloro-m-xylene	*0.456*		ug/L	*0.600*		*76.0*	*40-116*			
LCS (1HJ1198-BS1)		Prepared: 10/21/24 10:56 Analyzed: 10/28/24 17:09								
Gamma-Chlordane	0.242	0.05	ug/L	0.250		96.9	60-140			
Endosulfan I	0.292	0.05	ug/L	0.250		117	55-124			

Determination of Organochlorine Insecticides & Metabolites	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1HJ1198 - 3510C NP/OC Sep Fnl - EPA 8081										
LCS (1HJ1198-BS1)			Prepared: 10/21/24 10:56 Analyzed: 10/28/24 17:09							
Surrogate: Tetrachloro-m-xylene	*0.476*		ug/L	*0.600*		*79.4*	*40-116*			
LCS Dup (1HJ1198-BSD1)			Prepared: 10/21/24 10:56 Analyzed: 10/28/24 17:21							
Gamma-Chlordane	0.238	0.05	ug/L	0.250		95.2	60-140	1.74	30	
Endosulfan I	0.265	0.05	ug/L	0.250		106	55-124	9.76	30	
Surrogate: Tetrachloro-m-xylene	*0.451*		ug/L	*0.600*		*75.2*	*40-116*			

Determination of Inorganic Anions	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1HJ1571 - General Prep HPLC/IC - 300.0										
Blank (1HJ1571-BLK1)			Prepared: 10/24/24 00:00 Analyzed: 10/24/24 10:02							
Sulfate	<1.0	1.0	mg/L							
Blank (1HJ1571-BLK2)			Prepared: 10/24/24 00:00 Analyzed: 10/24/24 16:49							
Sulfate	<1.0	1.0	mg/L							
LCS (1HJ1571-BS1)			Prepared: 10/24/24 00:00 Analyzed: 10/24/24 21:40							
Sulfate	34.07	1.0	mg/L	34.2		99.8	90-110			
LCS Dup (1HJ1571-BSD1)			Prepared: 10/24/24 00:00 Analyzed: 10/24/24 21:58							
Sulfate	34.18	1.0	mg/L	34.2		100	90-110	0.308	10	
Matrix Spike (1HJ1571-MS1)	**Source: 1HJ1927-02**		Prepared: 10/24/24 00:00 Analyzed: 10/24/24 14:16							
Sulfate	410.2	10.0	mg/L	342	48.51	106	80-120			
Matrix Spike Dup (1HJ1571-MSD1)	**Source: 1HJ1927-02**		Prepared: 10/24/24 00:00 Analyzed: 10/24/24 14:34							
Sulfate	411.3	10.0	mg/L	342	48.51	106	80-120	0.270	10	
Batch 1HJ1779 - General Prep HPLC/IC - 300.0										
Blank (1HJ1779-BLK1)			Prepared & Analyzed: 10/25/24 10:07							
Sulfate	<1.0	1.0	mg/L							
LCS (1HJ1779-BS1)			Prepared & Analyzed: 10/25/24 10:44							
Sulfate	34.71	1.0	mg/L	34.2		102	90-110			
LCS Dup (1HJ1779-BSD1)			Prepared & Analyzed: 10/25/24 11:02							
Sulfate	34.70	1.0	mg/L	34.2		102	90-110	0.0461	10	
Matrix Spike (1HJ1779-MS1)	**Source: 1HJ1352-01**		Prepared & Analyzed: 10/25/24 13:18							
Sulfate	831.5	10.0	mg/L	342	498.3	97.6	80-120			
Matrix Spike Dup (1HJ1779-MSD1)	**Source: 1HJ1352-01**		Prepared & Analyzed: 10/25/24 13:36							
Sulfate	842.6	10.0	mg/L	342	498.3	101	80-120	1.32	10	

Determination of Total Metals	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Determination of Total Metals	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1HJ1261 - EPA 3005A Total Recoverable Metals - EPA 6020A										
Blank (1HJ1261-BLK1)			Prepared: 10/22/24 08:06 Analyzed: 10/22/24 20:17							
Antimony, total	<0.0020	0.0020	mg/L							
Arsenic, total	<0.0040	0.0040	mg/L							
Barium, total	<0.0040	0.0040	mg/L							
Beryllium, total	<0.0040	0.0040	mg/L							
Cadmium, total	<0.0008	0.0008	mg/L							
Chromium, total	<0.0080	0.0080	mg/L							
Cobalt, total	<0.0004	0.0004	mg/L							
Copper, total	<0.0040	0.0040	mg/L							
Lead, total	<0.0040	0.0040	mg/L							
Nickel, total	<0.0040	0.0040	mg/L							
Selenium, total	<0.0040	0.0040	mg/L							
Silver, total	<0.0040	0.0040	mg/L							
Thallium, total	<0.0020	0.0020	mg/L							
Vanadium, total	<0.0200	0.0200	mg/L							
Zinc, total	<0.0200	0.0200	mg/L							
LCS (1HJ1261-BS1)			Prepared: 10/22/24 08:06 Analyzed: 10/22/24 20:23							
Antimony, total	0.0960	0.0020	mg/L	0.100		96.0	80-120			
Arsenic, total	0.0956	0.0040	mg/L	0.100		95.6	80-120			
Barium, total	0.106	0.0040	mg/L	0.100		106	80-120			
Beryllium, total	0.0989	0.0040	mg/L	0.100		98.9	80-120			
Cadmium, total	0.0945	0.0008	mg/L	0.100		94.5	80-120			
Chromium, total	0.0946	0.0080	mg/L	0.100		94.6	80-120			
Cobalt, total	0.0979	0.0004	mg/L	0.100		97.9	80-120			
Copper, total	0.0977	0.0040	mg/L	0.100		97.7	80-120			
Lead, total	0.0957	0.0040	mg/L	0.100		95.7	80-120			
Nickel, total	0.100	0.0040	mg/L	0.100		100	80-120			
Selenium, total	0.0899	0.0040	mg/L	0.100		89.9	80-120			
Silver, total	0.0978	0.0040	mg/L	0.100		97.8	80-120			
Thallium, total	0.0939	0.0020	mg/L	0.100		93.9	80-120			
Vanadium, total	0.0984	0.0200	mg/L	0.100		98.4	80-120			
Zinc, total	0.0953	0.0200	mg/L	0.100		95.3	80-120			
Matrix Spike (1HJ1261-MS1)	**Source: 1HJ1342-01**		Prepared: 10/22/24 08:06 Analyzed: 10/22/24 20:35							
Antimony, total	0.0972	0.0020	mg/L	0.100	ND	97.2	75-125			
Arsenic, total	0.103	0.0040	mg/L	0.100	0.0091	94.3	75-125			
Barium, total	0.461	0.0040	mg/L	0.100	0.376	85.5	75-125			
Beryllium, total	0.0996	0.0040	mg/L	0.100	ND	99.6	75-125			
Cadmium, total	0.0935	0.0008	mg/L	0.100	0.0002	93.2	75-125			
Chromium, total	0.0961	0.0080	mg/L	0.100	0.0021	94.1	75-125			
Cobalt, total	0.101	0.0004	mg/L	0.100	0.0042	96.8	75-125			
Copper, total	0.0935	0.0040	mg/L	0.100	0.0029	90.6	75-125			
Lead, total	0.0960	0.0040	mg/L	0.100	0.0006	95.4	75-125			
Nickel, total	0.102	0.0040	mg/L	0.100	0.0063	96.0	75-125			
Selenium, total	0.0929	0.0040	mg/L	0.100	0.0019	90.9	75-125			

Determination of Total Metals	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1HJ1261 - EPA 3005A Total Recoverable Metals - EPA 6020A										
Matrix Spike (1HJ1261-MS1)	**Source: 1HJ1342-01**		Prepared: 10/22/24 08:06 Analyzed: 10/22/24 20:35							
Silver, total	0.0974	0.0040	mg/L	0.100	ND	97.4	75-125			
Thallium, total	0.0952	0.0020	mg/L	0.100	0.0002	95.0	75-125			
Vanadium, total	0.102	0.0200	mg/L	0.100	ND	102	75-125			
Zinc, total	0.0960	0.0200	mg/L	0.100	ND	96.0	75-125			
Matrix Spike Dup (1HJ1261-MSD1)	**Source: 1HJ1342-01**		Prepared: 10/22/24 08:06 Analyzed: 10/22/24 20:54							
Antimony, total	0.0926	0.0020	mg/L	0.100	ND	92.6	75-125	4.87	20	
Arsenic, total	0.0985	0.0040	mg/L	0.100	0.0091	89.4	75-125	4.88	20	
Barium, total	0.458	0.0040	mg/L	0.100	0.376	81.7	75-125	0.830	20	
Beryllium, total	0.0950	0.0040	mg/L	0.100	ND	95.0	75-125	4.73	20	
Cadmium, total	0.0911	0.0008	mg/L	0.100	0.0002	90.9	75-125	2.53	20	
Chromium, total	0.0906	0.0080	mg/L	0.100	0.0021	88.5	75-125	5.94	20	
Cobalt, total	0.0978	0.0004	mg/L	0.100	0.0042	93.6	75-125	3.16	20	
Copper, total	0.0911	0.0040	mg/L	0.100	0.0029	88.1	75-125	2.61	20	
Lead, total	0.0911	0.0040	mg/L	0.100	0.0006	90.5	75-125	5.22	20	
Nickel, total	0.0977	0.0040	mg/L	0.100	0.0063	91.4	75-125	4.59	20	
Selenium, total	0.0882	0.0040	mg/L	0.100	0.0019	86.3	75-125	5.14	20	
Silver, total	0.0918	0.0040	mg/L	0.100	ND	91.8	75-125	5.92	20	
Thallium, total	0.0897	0.0020	mg/L	0.100	0.0002	89.5	75-125	5.96	20	
Vanadium, total	0.0982	0.0200	mg/L	0.100	ND	98.2	75-125	4.00	20	
Zinc, total	0.0914	0.0200	mg/L	0.100	ND	91.4	75-125	4.92	20	
Post Spike (1HJ1261-PS1)	**Source: 1HJ1342-01**		Prepared: 10/22/24 08:06 Analyzed: 10/22/24 21:00							
Antimony, total	0.0757		mg/L	0.0800	0.0001	94.4	80-120			
Arsenic, total	0.0828		mg/L	0.0800	0.0089	92.4	80-120			
Barium, total	0.434		mg/L	0.0800	0.368	81.6	80-120			
Beryllium, total	0.0758		mg/L	0.0800	0.00007	94.6	80-120			
Cadmium, total	0.0725		mg/L	0.0800	0.0002	90.3	80-120			
Chromium, total	0.0744		mg/L	0.0800	0.0021	90.4	80-120			
Cobalt, total	0.0807		mg/L	0.0800	0.0041	95.7	80-120			
Copper, total	0.0743		mg/L	0.0800	0.0029	89.2	80-120			
Lead, total	0.0746		mg/L	0.0800	0.0006	92.5	80-120			
Nickel, total	0.0826		mg/L	0.0800	0.0062	95.6	80-120			
Selenium, total	0.0692		mg/L	0.0800	0.0019	84.2	80-120			
Silver, total	0.0758		mg/L	0.0800	0.00004	94.7	80-120			
Thallium, total	0.0731		mg/L	0.0800	0.0002	91.1	80-120			
Vanadium, total	0.0798		mg/L	0.0800	0.0067	91.4	80-120			
Zinc, total	0.0746		mg/L	0.0800	0.0080	83.3	80-120			

Definitions

Q3:	LCS recovery is below acceptance limits. The reported value is estimated.
RL:	Reporting Limit
RPD:	Relative Percent Difference
S1:	Surrogate recovery is above acceptance limits.

Cooler Receipt Log

Cooler ID: Default Cooler   Temp: 0.7ºC

Cooler Inspection Checklist

Custody Seals	No	Containers Intact	Yes
COC/Labels Agree	Yes	Preservation Confirmed	No
Received On Ice	Yes		

Report Comments

The data and information on this, and other accompanying documents, represents only the sample(s) analyzed. This report is incomplete unless all pages indicated in the footnote are present and an authorized signature is included. ***The services were provided under and subject to Microbac's standard terms and conditions which can be located and reviewed at <https://www.microbac.com/standard-terms-conditions>.***

Reviewed and Approved By:

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11/01/24 08:12

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641-792-8451

1HJ1342
HLW Engineering
PM: Heather Murphy

10/3/2024 8:30:52A

keystonelabs.com

SITE INFORMATION

Sampler: JGH

Project: Cass Co SLF

REPORT TO

Todd Whipple
HLW Engineering
PO Box 314
Story City, IA 50248

INVOICE TO

Brandi Mericle
Cass County Landfill
65928 Jackson Rd
Atlantic, IA 50022

SPECIAL INSTRUCTIONS

None

Turn Around Time

☒ Standard ☐ RUSH, need by __/__/__

LAB USE ONLY

Work Order

Temperature 0.7

Turn-Cooler: No

☐ Custody Seal
☐ Containers Intact
☐ COC/Labels Agree
☐ Preservation Confirmed
☒ Received on Ice

Number	Sample Identification / Client ID	Matrix	Sample Type	Date	Time	Number of Containers	Analyses	Lab Sample Number
-001	MW-15R	Aqueous	GRAB	10/14/24	9:28	7	lndfill-app1-voc-group; lndfll-app1-metals-6020; ~~tss-i-3765-85~~	01
-001	MW-12 DRY - NO SAMPLE	Aqueous	GRAB	10/14/24	—	—	lndfill-app1-voc-group; lndfll-app1-metals-6020; ~~tss-i-3765-85~~	—
-001	MW-19	Aqueous	GRAB	10/14/24	12:18	9	8081-118; lndfill-app1-voc-group; lndfill-app1-metals-6020; so4-300.0; ~~tss-i-3765-85~~	02
-001	MW-20	Aqueous	GRAB	10/14/24	12:35	10	8081-118; 8151-120; lndfill-app1-voc-group; lndfll-app1-metals-6020; so4-300.0; ~~tss-i-3765-85~~	03
-001	MW-21	Aqueous	GRAB	10/14/24	11:43	8	lndfill-app1-voc-group; lndfll-app1-metals-6020; so4-300.0; ~~tss-i-3765-85~~	04
-001	MW-24	Aqueous	GRAB	10/14/24	12:58	7	lndfill-app1-voc-group; lndfll-app1-metals-6020; ~~tss-i-3765-85~~	05

Relinquished By: [signature] Date/Time: 10/16/24

Relinquished By: Date/Time:

Received By: Date/Time:

Received for Lab By: [signature] Date/Time: 10/16/2024 10:26am

Remarks:

Original - Lab Copy Yellow - Sampler Copy

CHAIN OF CUSTODY

MICROBAC®

600 East 17th Street South
Newton, IA 50208
641-792-8451

1HJ1342
HLW Engineering
PM: Heather Murphy

9/3/2024 8:30:52A
keystonelabs.com

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[ ] Containers Intact
[ ] COC/Labels Agree
[ ] Preservation Confirmed
[X] Received on Ice

Number	Sample Identification / Client ID	Matrix	Sample Type	Date	Time	Number of Containers	Analyses	Lab Sample Number
-001	MW-37R	Aqueous	GRAB	10/14/24	11:15	7	lndfill-app1-voc-group lndfill-app1-metals-6020 tss-i-3765-85	06
-001	MW-38R	Aqueous	GRAB	10/14/24	10:52	7	lndfill-app1-voc-group lndfill-app1-metals-6020 tss-i-3765-85	07
-001	MW-39	Aqueous	GRAB	10/14/24	13:36	7	lndfill-app1-voc-group lndfill-app1-metals-6020 tss-i-3765-85	08
-001	MW-43	Aqueous	GRAB	10/14/24	10:31	7	lndfill-app1-voc-group lndfill-app1-metals-6020 tss-i-3765-85	09
-001	UD-0 DRY - NO SAMPLE	Aqueous	GRAB	~~/ /~~			lndfill-app1-voc-group lndfill-app1-metals-6020 tss-i-3765-85	—
-001	UD-1 DRY - NO SAMPLE	Aqueous	GRAB	~~/ /~~			lndfill-app1-voc-group lndfill-app1-metals-6020 tss-i-3765-85	—
-001	MW-13	Aqueous	GRAB	10/14/24	10:17	1	lndfill-app1-metals-6020	10

Relinquished By: [signature] Date/Time: 10/16/24

Received By Date/Time

Relinquished By Date/Time

Received for Lab By: [signature] Date/Time: 10/16/2024 10:24 AM

Remarks:

Original - Lab Copy Yellow - Sampler Copy

CHAIN

MICROBAC®

600 East 17th Stre
Newton, IA 50208
641-792-8451

1 H J 1 3 4 2
HLW Engineering
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Printed: 9/3/2024 8:30:52A

www.keystonelabs.com

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Temperature 0.7

Turn-Cooler: No

☐ Custody Seal
☐ Containers Intact
☐ COC/Labels Agree
☐ Preservation Confirmed
☒ Received on Ice

Number	Sample Identification / Client ID	Matrix	Sample Type	Date	Time	Number of Containers	Analyses	Lab Sample Number
-001	MW-22	Aqueous	GRAB	10/14/24	9:00	7	lndfill-app1-voc-group, lndfill-app1-metals-6020, ~~tss-i-3765-85~~	11
-001	MW-11	Aqueous	GRAB	10/14/24	9:55	7	lndfill-app1-voc-group, lndfill-app1-metals-6020, ~~tss-i-3765-85~~	12
-001	MW-23	Aqueous	GRAB	10/14/24	11:56	7	lndfill-app1-voc-group, lndfill-app1-metals-6020, ~~tss-i-3765-85~~	13
-001	MW-36	Aqueous	GRAB	10/14/24	13:24	7	lndfill-app1-voc-group, lndfill-app1-metals-6020, tss-i-3765-85	14
-001	Duplicate	Aqueous	GRAB	10/14/24	10:17	1	lndfill-app1-metals-6020	15

Relinquished By: J. C[illegible] Date/Time: 10/16/24

Received By Date/Time

Relinquished By Date/Time

Received for Lab By: [illegible] Date/Time: 10/16/2024 10:24 AM

Remarks:

Original - Lab Copy Yellow - Sampler Copy

Appendix E

Field Turbidity (NTU) Summary

Cass County Sanitary Landfill

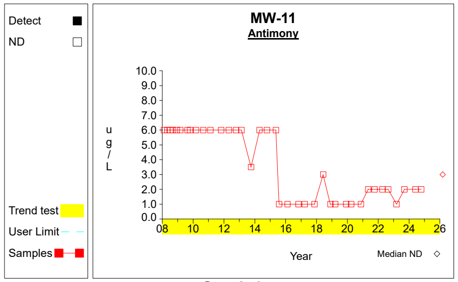
	April 2022		September 2023		May 2024		October 2024
MW	Laboratory TSS Sample Bottle FNU	Laboratory TSS Sample Bottle mg/L	Laboratory TSS Sample Bottle FNU	Laboratory TSS Sample Bottle mg/L	Laboratory TSS Sample Bottle FNU	Laboratory TSS Sample Bottle mg/L	Field Tubidity App I Sample Bottle NTU
15R	2.6	0.94	7.4	21.8	4.5	8.6	14
12	8.5	35		427			
19	1.5	0.94	3.9	3.75	0.8	5.5	1.72
20	3.8	123	28.7	151	28	37.5	6.56
21	7.8	13.5	6.5	4.5	0.7	5	4.75
24	2.4	1.5	4.6	45	12.4	4.75	44.2
37R	109.8	181	42.5	100	93.7	144	2.37
38R	34	23.5	11.2	3.75	66.9	22.8	398
39	1.6	1	37.6	1.25	7.1	0.94	2.04
43	2.3	0.575	4.1	25	0.5	0.94	4.37
22	1.9	0.94	5.7	0.94	5.7	3.63	5.35
11	4.7	12.5	6.2	8.25	3.1	8.33	3.7
23	1.7	1	6.2	1.13	2.1	0.94	2.86
36	16.4	1	364.1	468			4.24

Appendix F

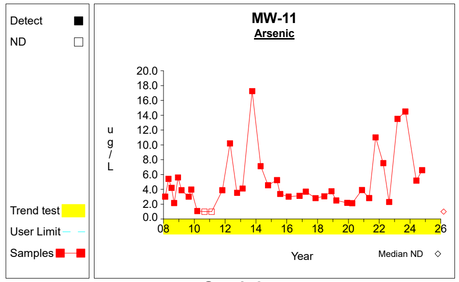
Time Series Plots MW-12 and MW-20

Cass County February 2025

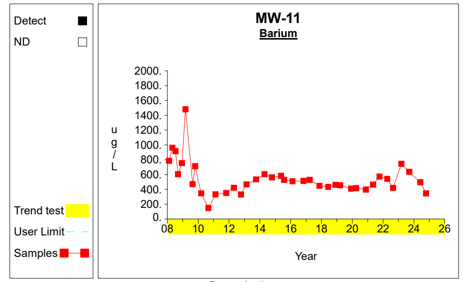
Time Series



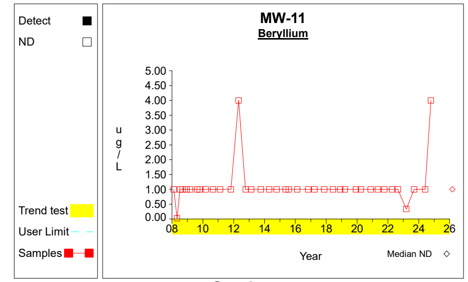
Graph 1



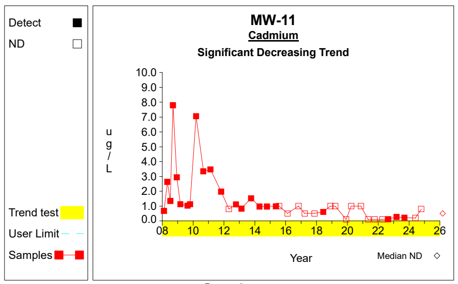
Graph 2



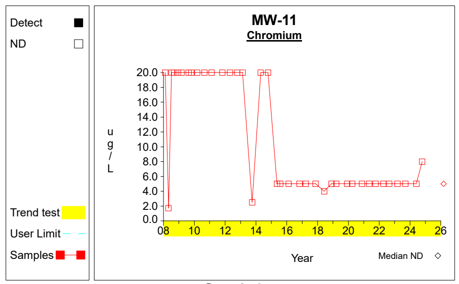
Graph 3



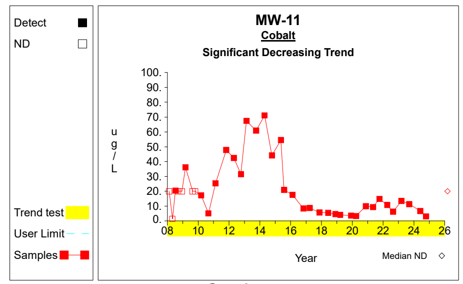
Graph 4



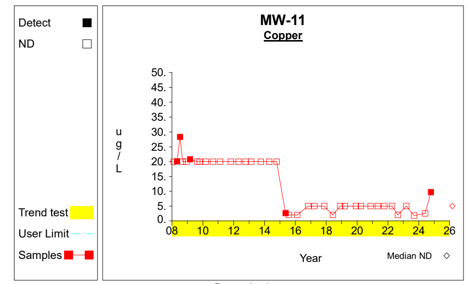
Graph 5



Graph 6



Graph 7



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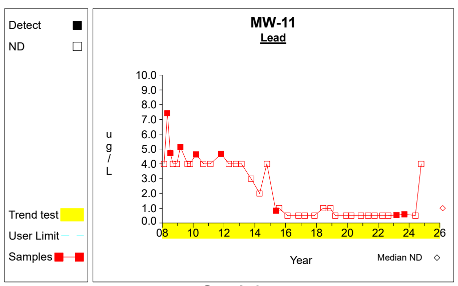

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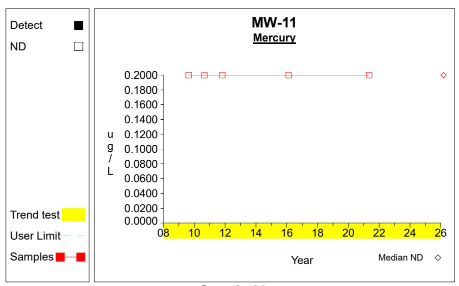
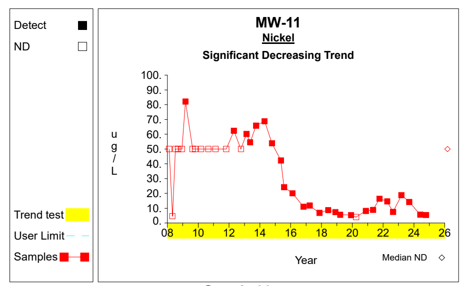
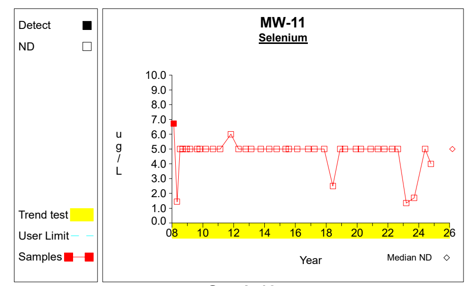


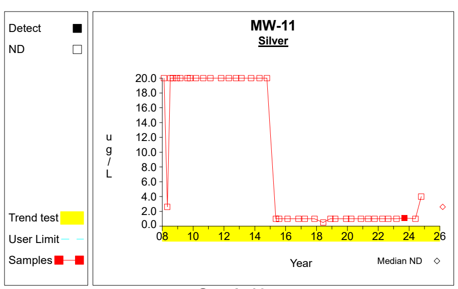
Graph 10



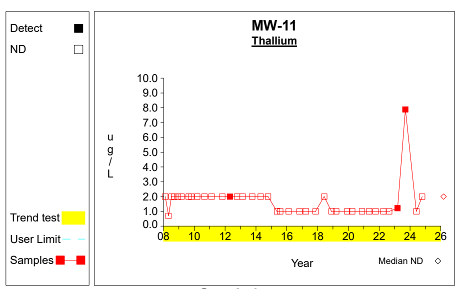
Graph 11



Graph 12



Graph 13



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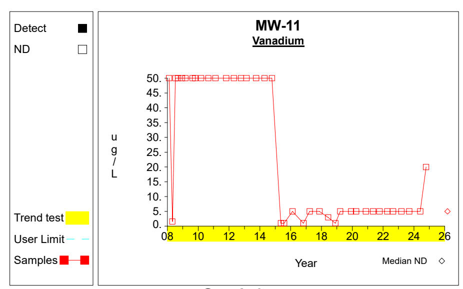
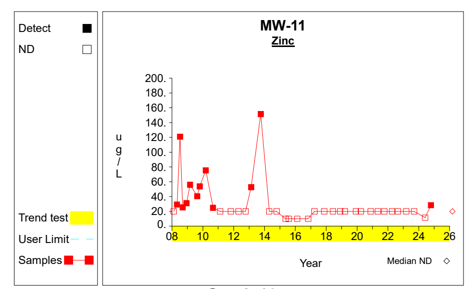


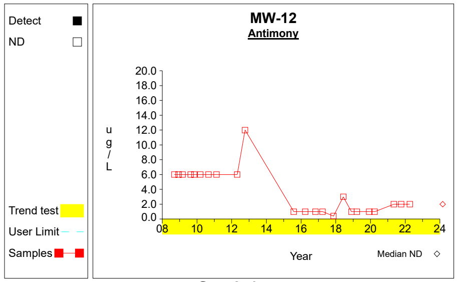
Graph 15



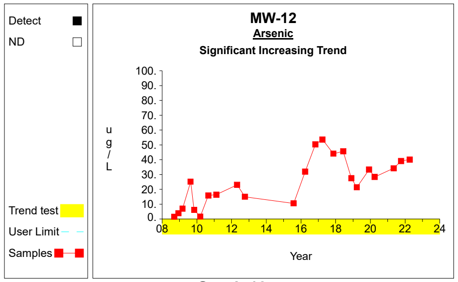
Graph 16

Prepared by: Otter Creek Environmental

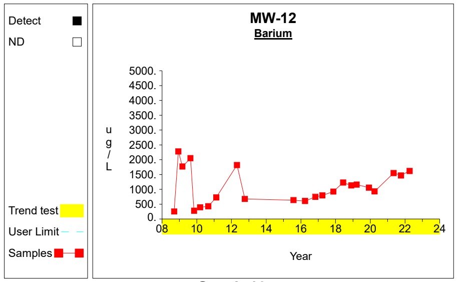
Time Series



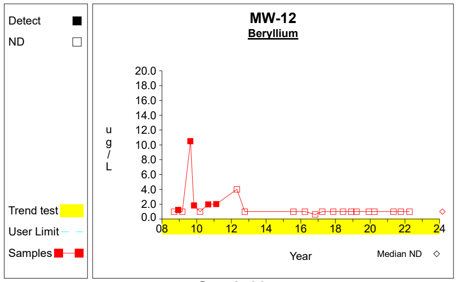
Graph 17



Graph 18



Graph 19



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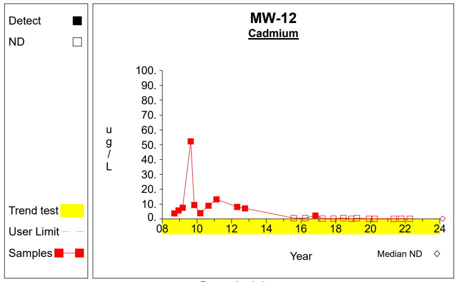
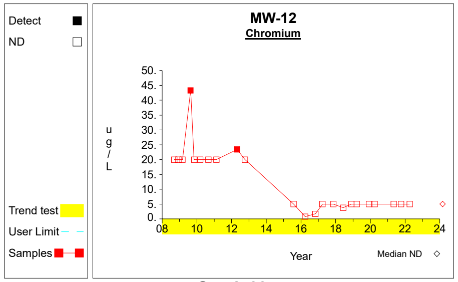
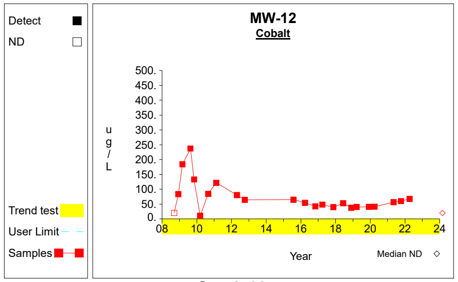


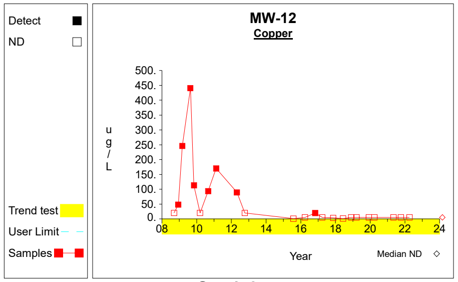
Graph 21



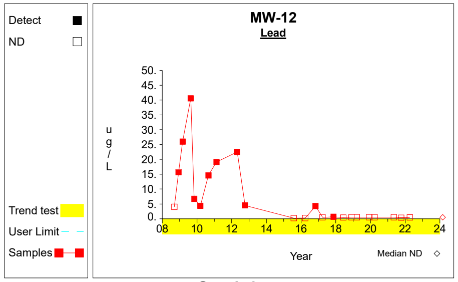
Graph 22



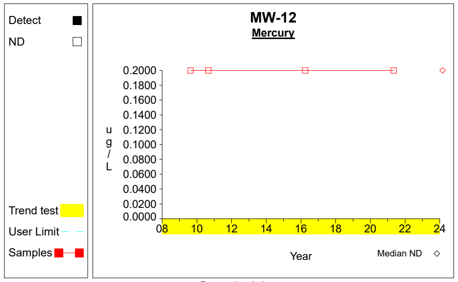
Graph 23



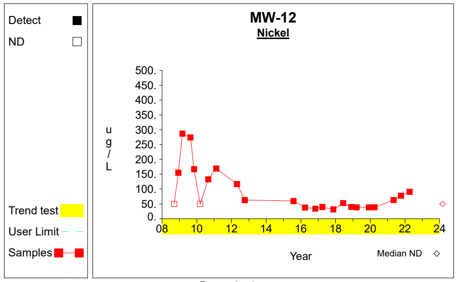
Graph 24



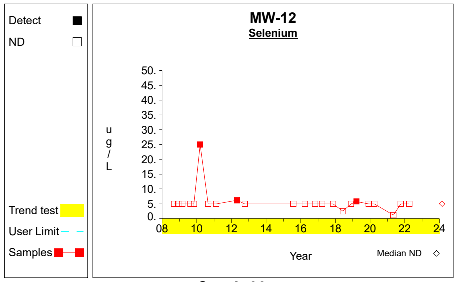
Graph 25



Graph 26



Graph 27



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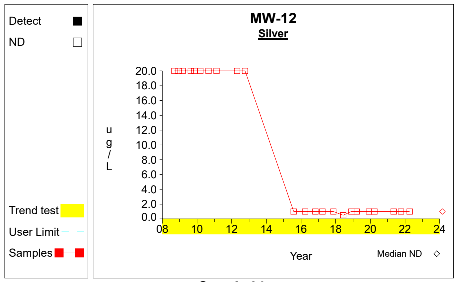

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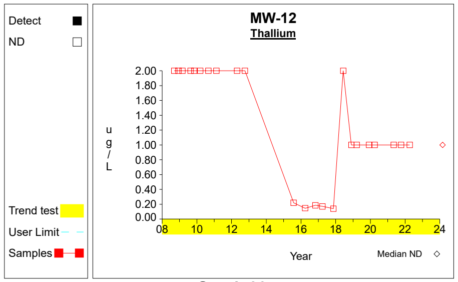

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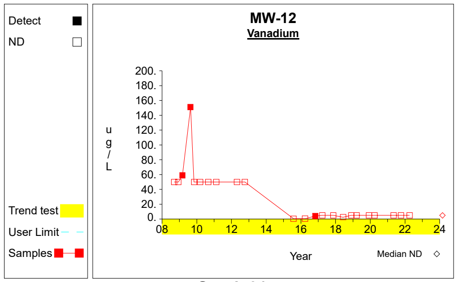
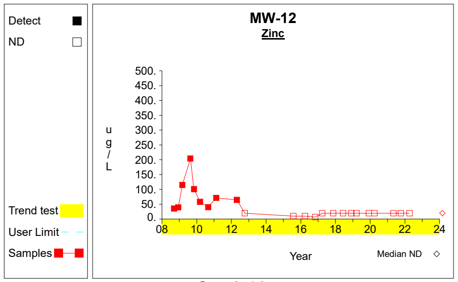


Graph 31

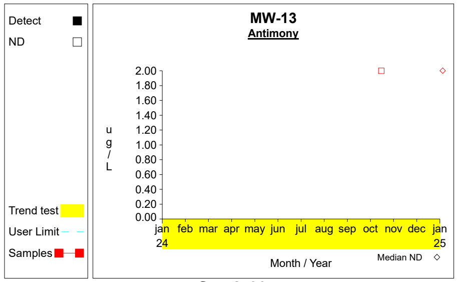


Graph 32

Cass County

February 2025

Time Series



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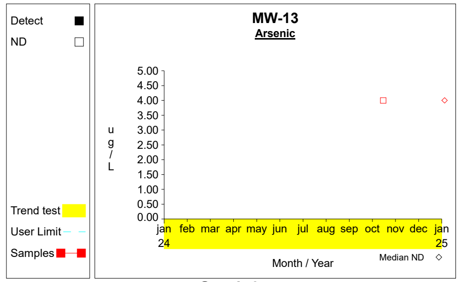
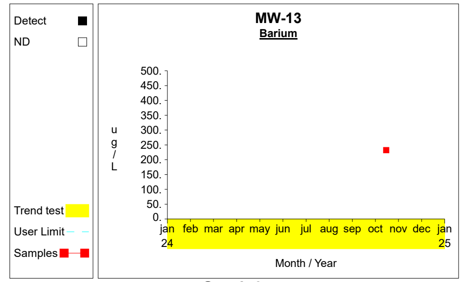


Graph 34



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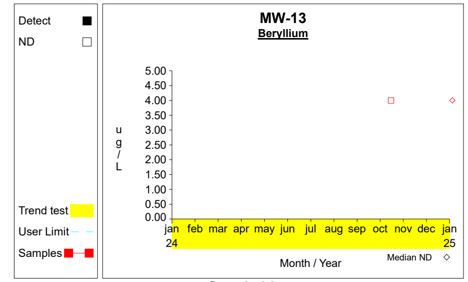
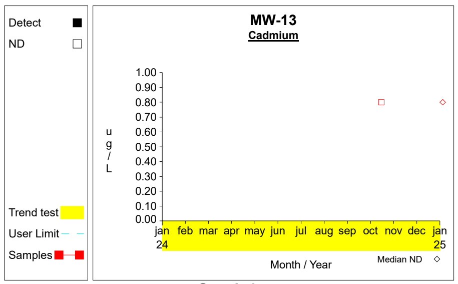


Graph 36



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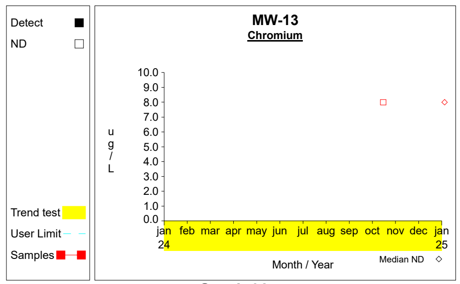
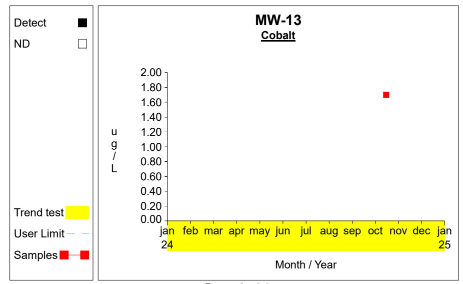
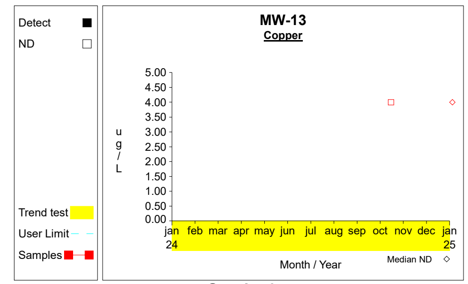


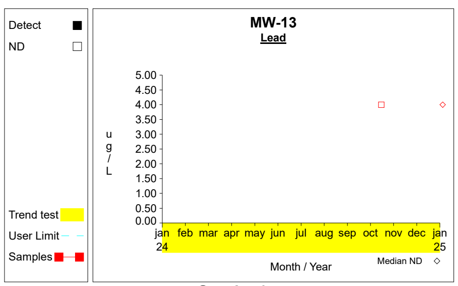
Graph 38



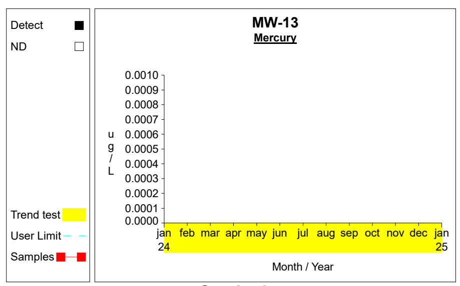
Graph 39



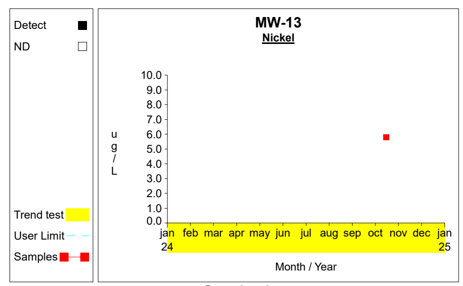
Graph 40



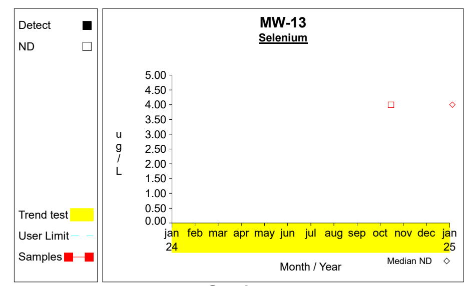
Graph 41



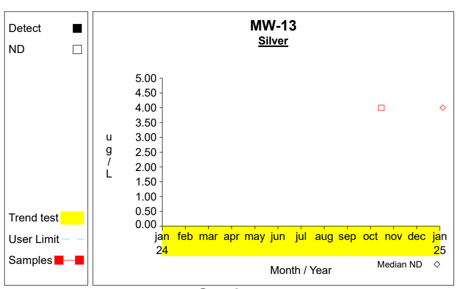
Graph 42



Graph 43



Graph 44



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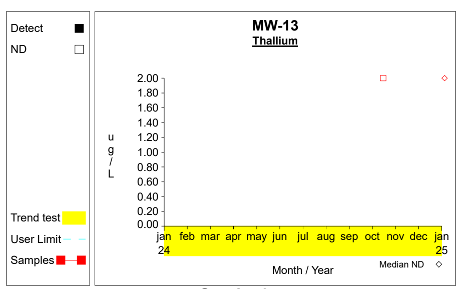
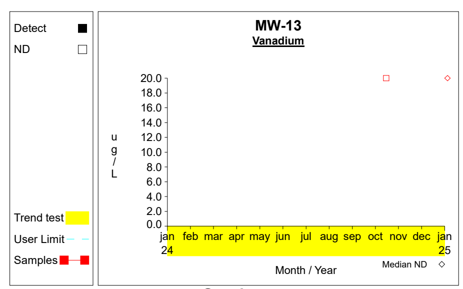
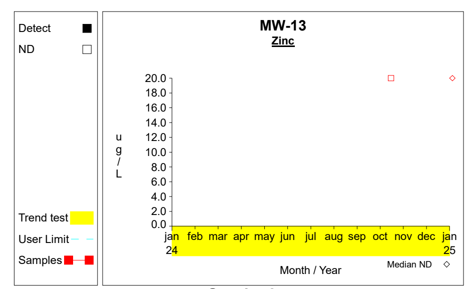


Graph 46



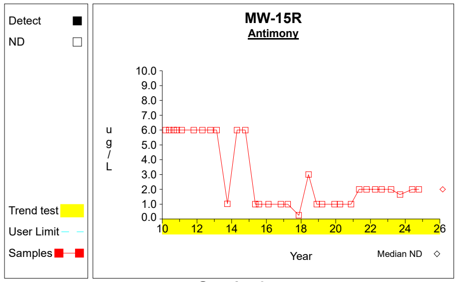
Graph 47



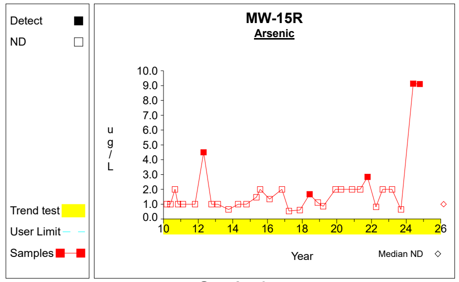
Graph 48

Prepared by: Otter Creek Environmental

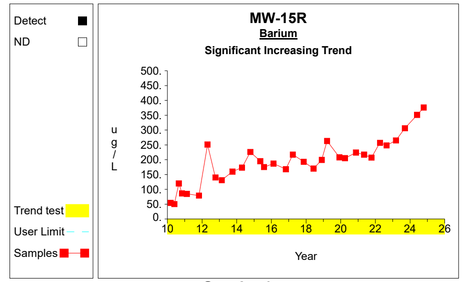
Time Series



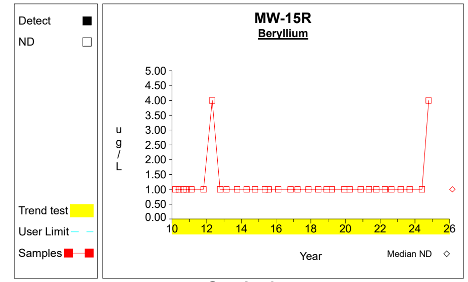
Graph 49



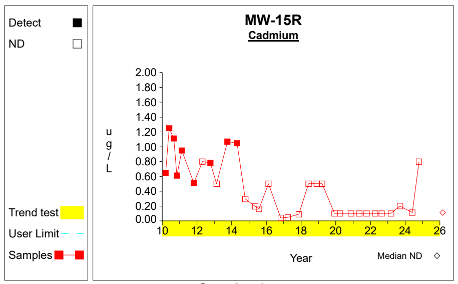
Graph 50



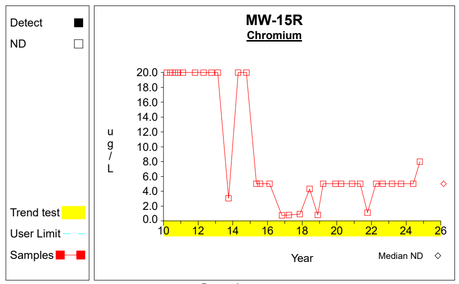
Graph 51



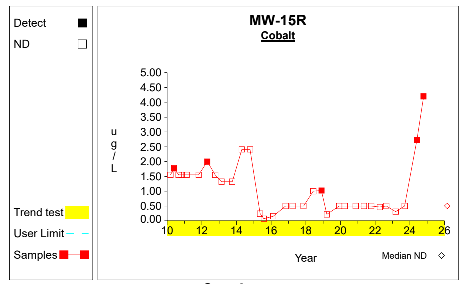
Graph 52



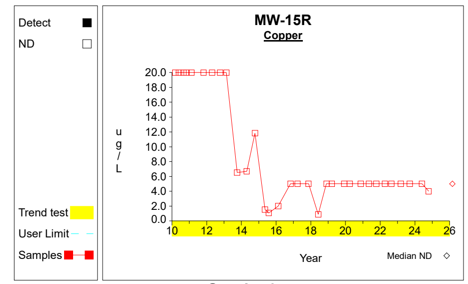
Graph 53



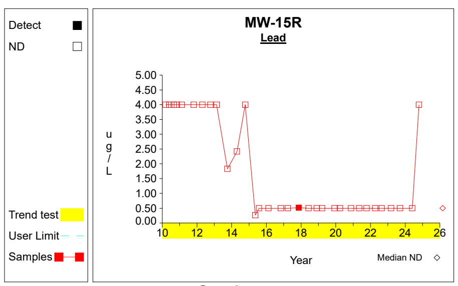
Graph 54



Graph 55



Graph 56



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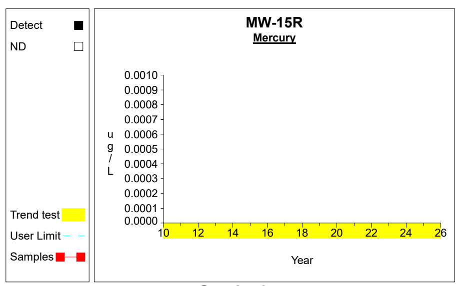
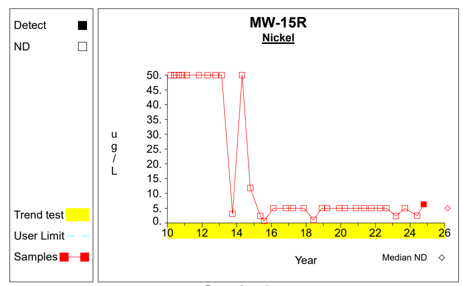
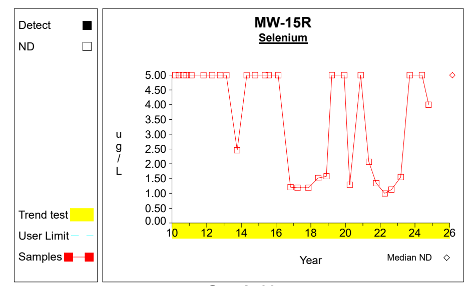


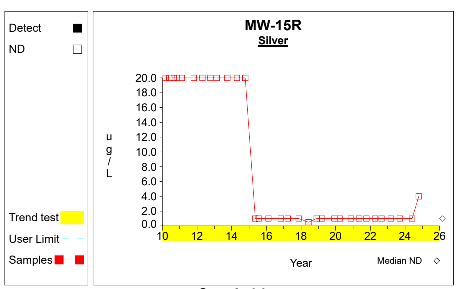
Graph 58



Graph 59



Graph 60



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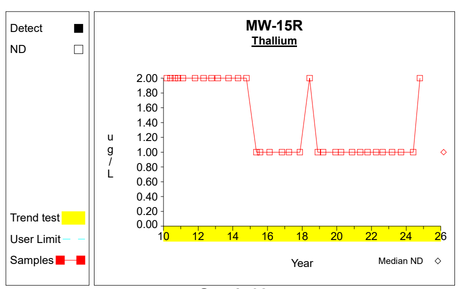

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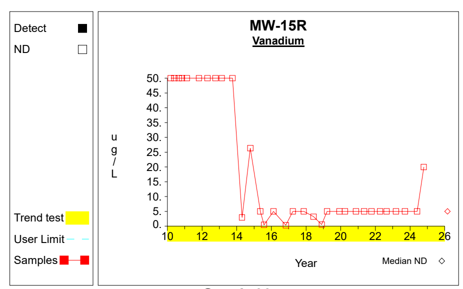
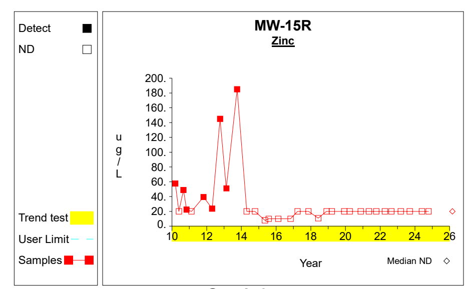


Graph 63



Graph 64

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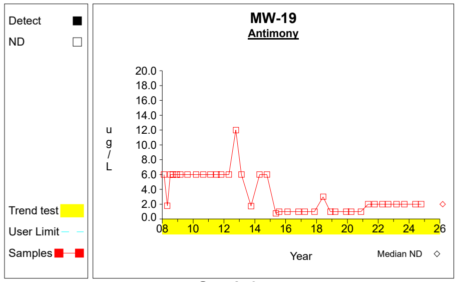
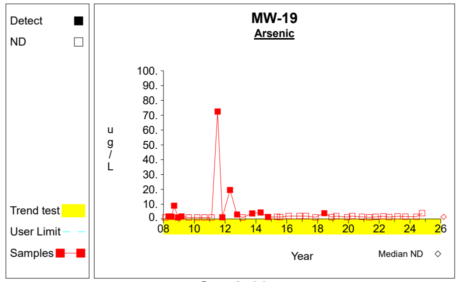
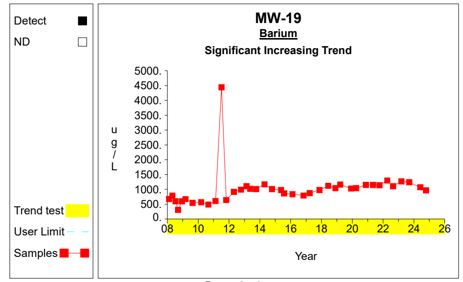
Time Series



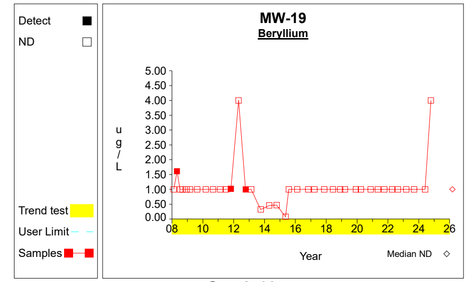
Graph 65



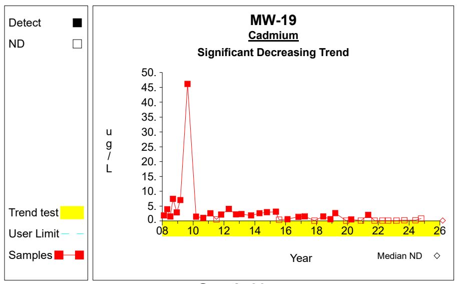
Graph 66



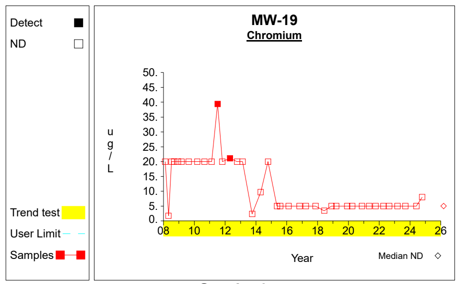
Graph 67



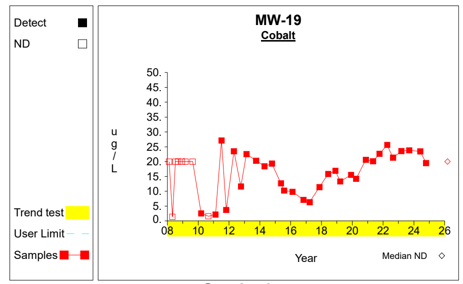
Graph 68



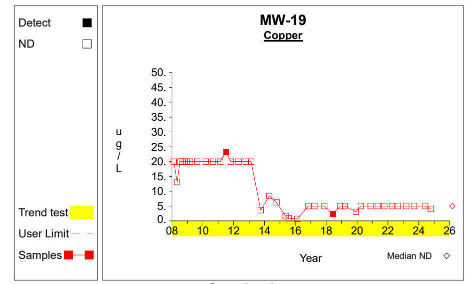
Graph 69



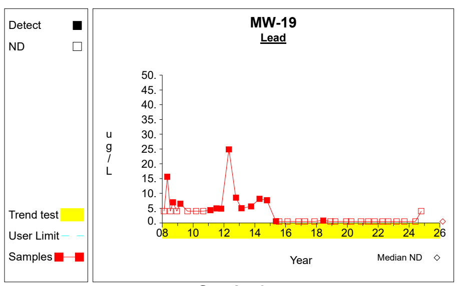
Graph 70



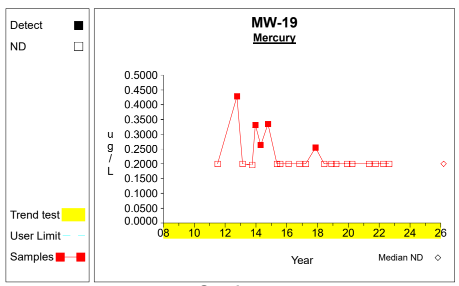
Graph 71



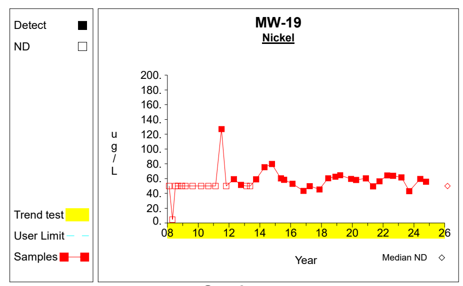
Graph 72



Graph 73



Graph 74



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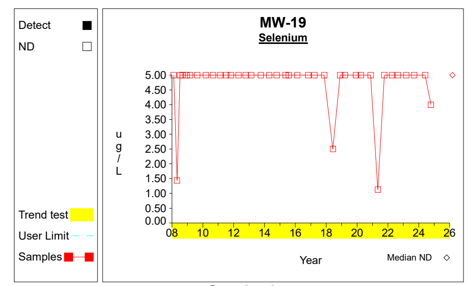
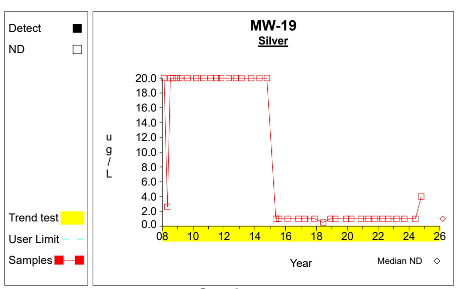
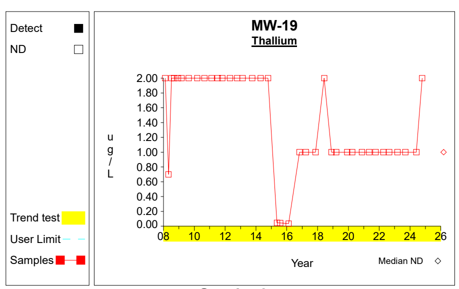


Graph 76



Graph 77



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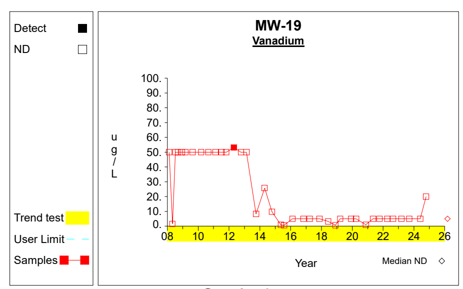
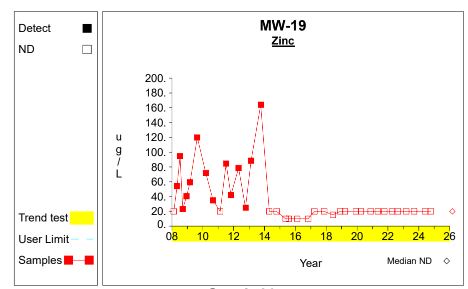


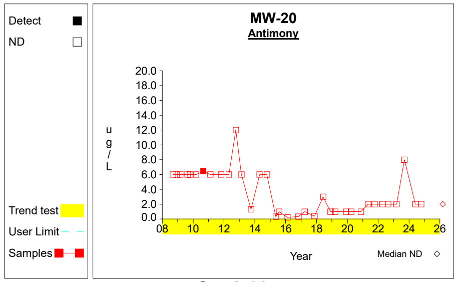
Graph 79



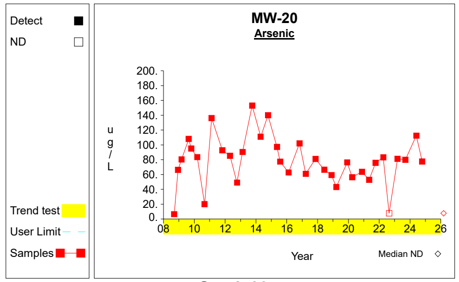
Graph 80

Cass County February 2025

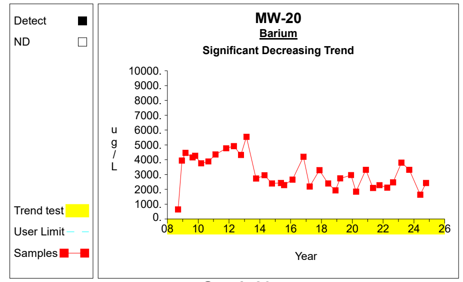
Time Series



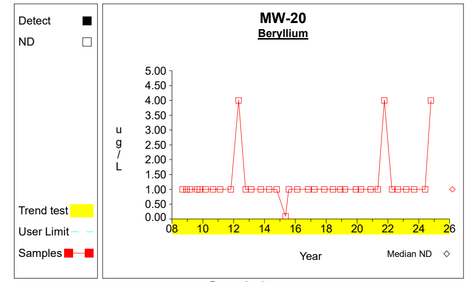
Graph 81



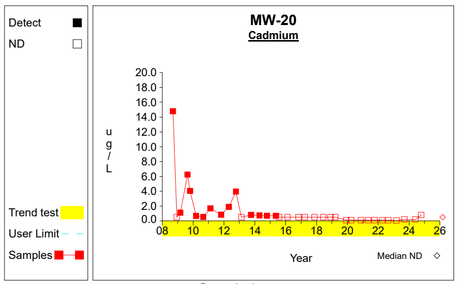
Graph 82



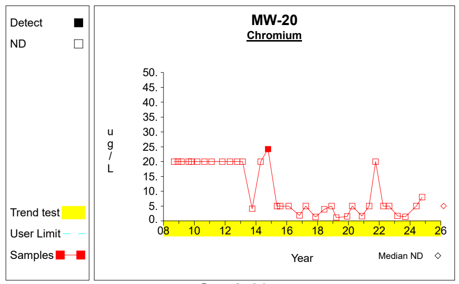
Graph 83



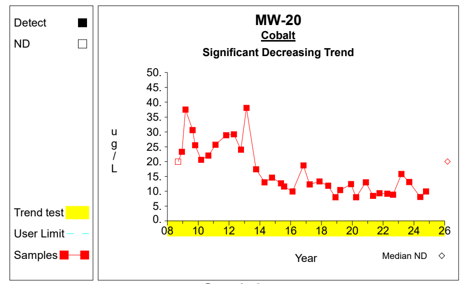
Graph 84



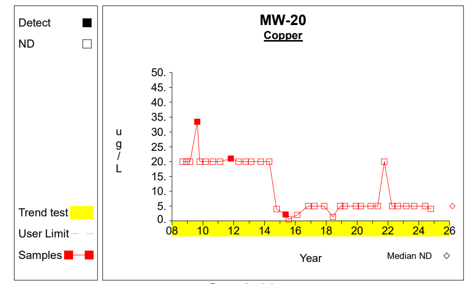
Graph 85



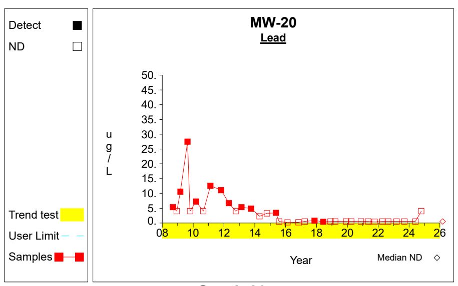
Graph 86



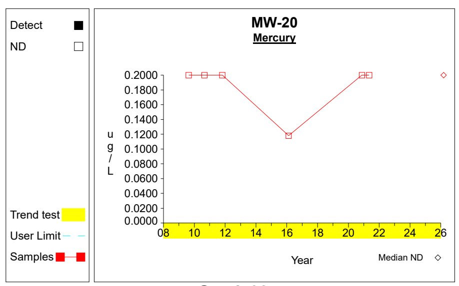
Graph 87



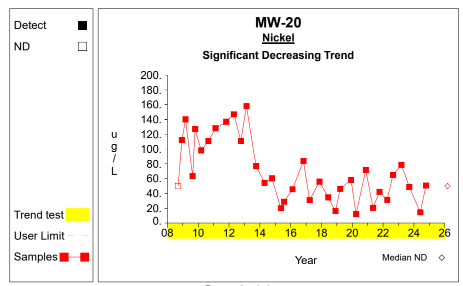
Graph 88



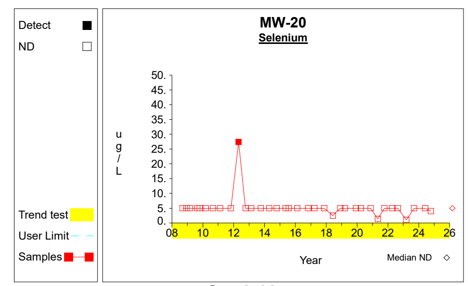
Graph 89



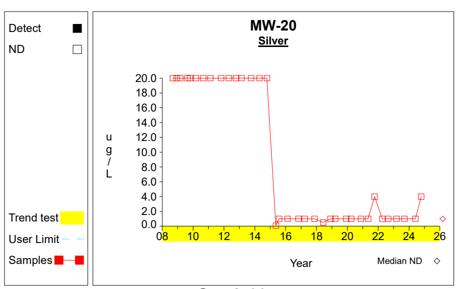
Graph 90



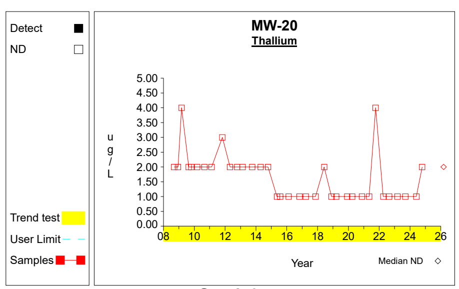
Graph 91



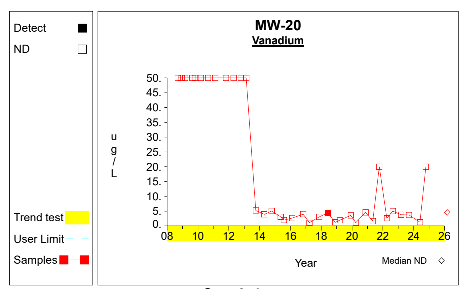
Graph 92



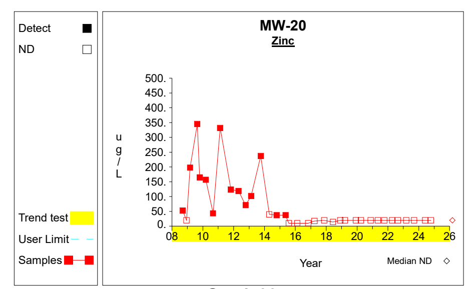
Graph 93



Graph 94



Graph 95



Graph 96

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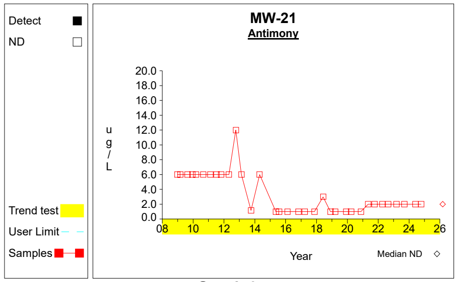
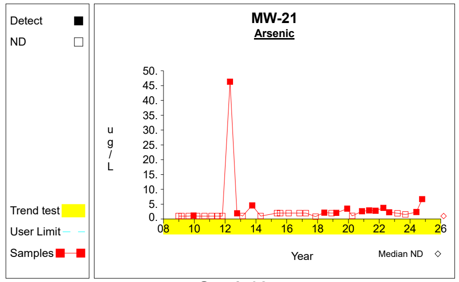
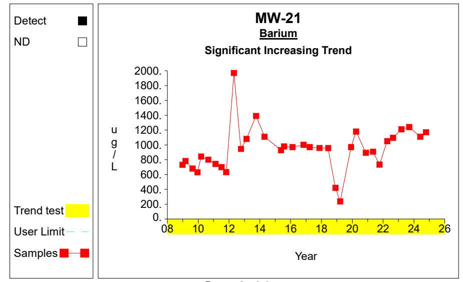
Time Series



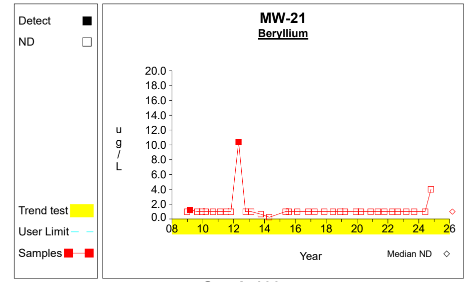
Graph 97



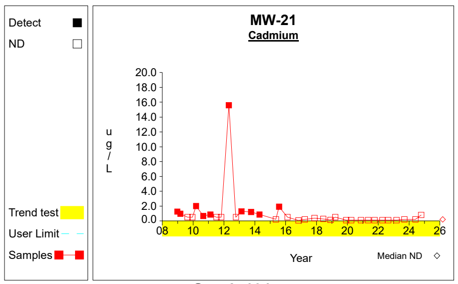
Graph 98



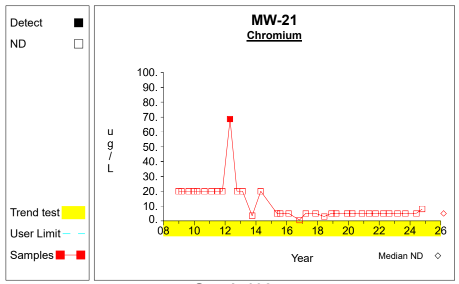
Graph 99



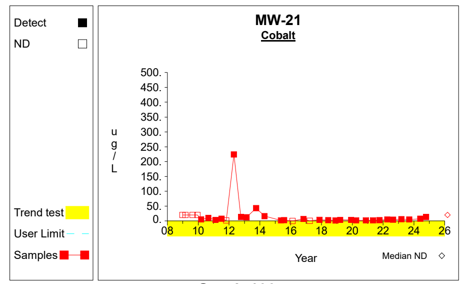
Graph 100



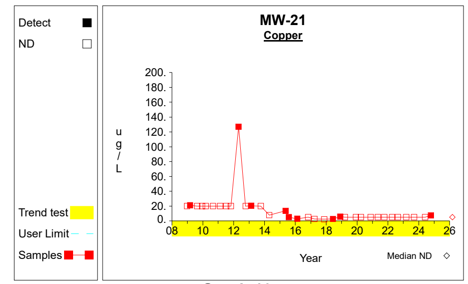
Graph 101



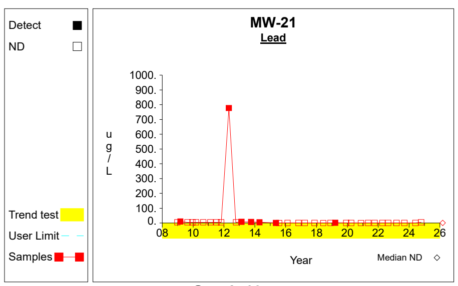
Graph 102



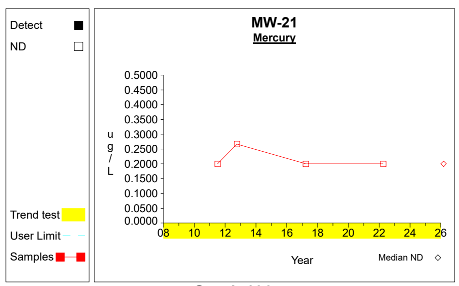
Graph 103



Graph 104



Graph 105



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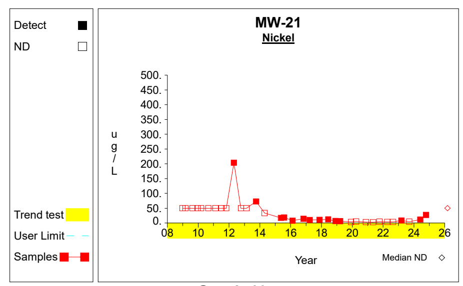
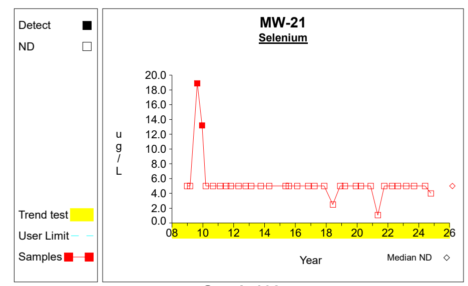
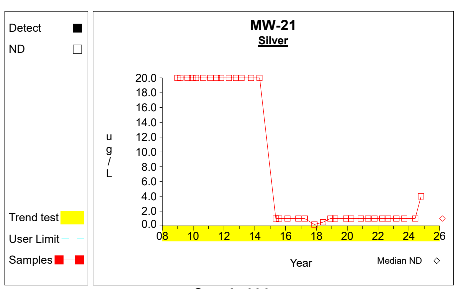


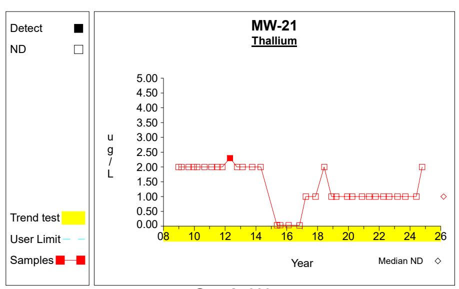
Graph 107



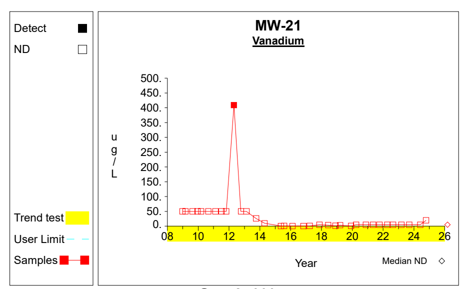
Graph 108



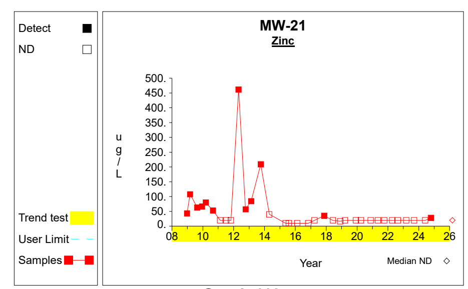
Graph 109



Graph 110

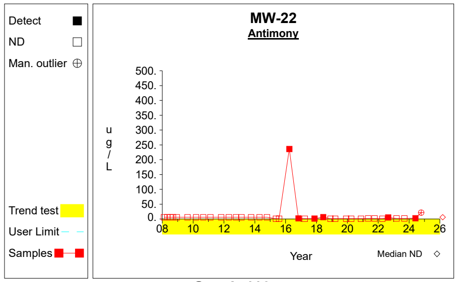


Graph 111

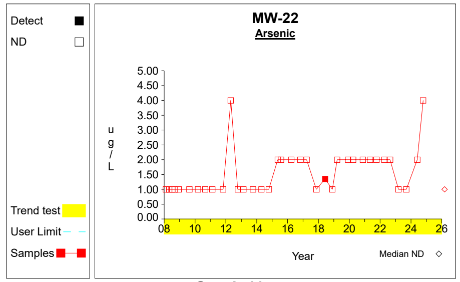


Graph 112

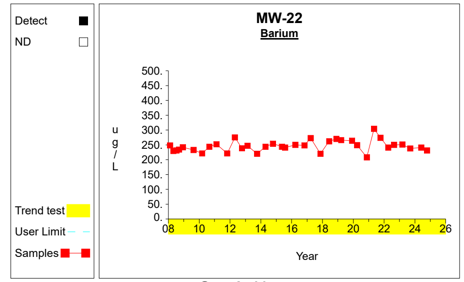
Time Series



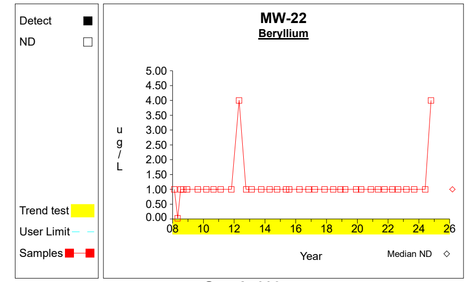
Graph 113



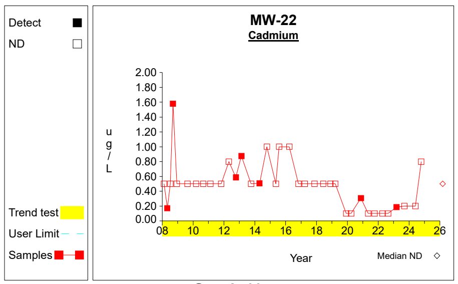
Graph 114



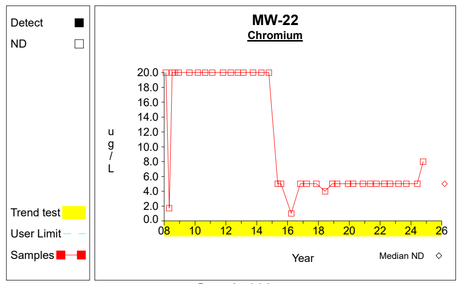
Graph 115



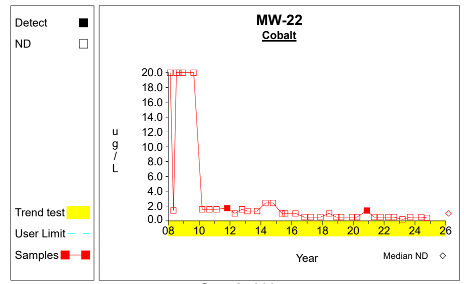
Graph 116



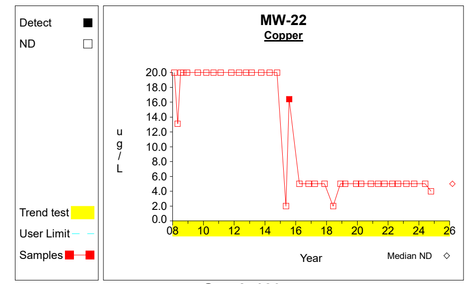
Graph 117



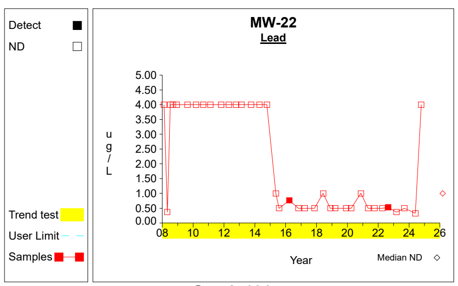
Graph 118



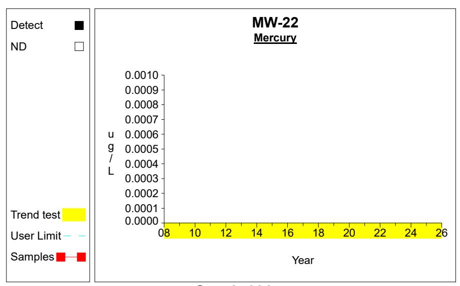
Graph 119



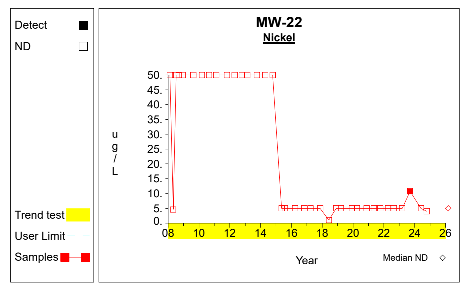
Graph 120



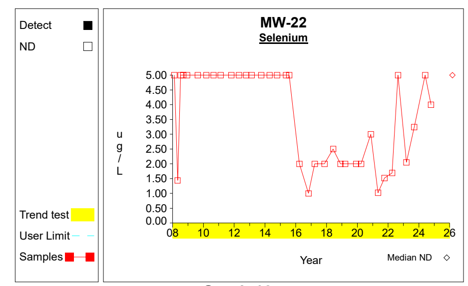
Graph 121



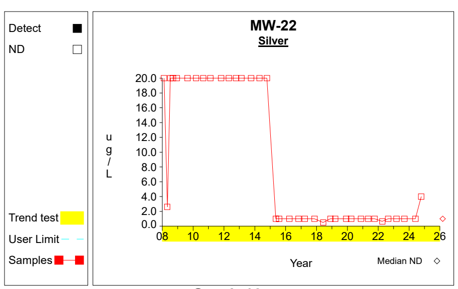
Graph 122



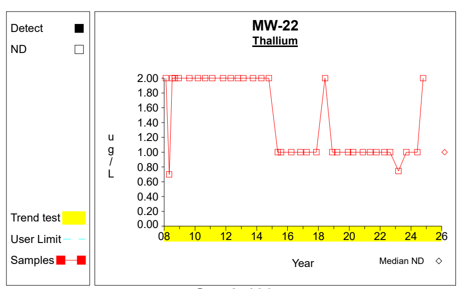
Graph 123



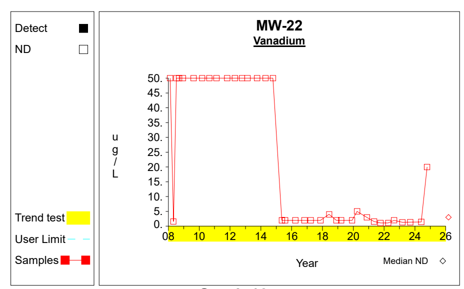
Graph 124



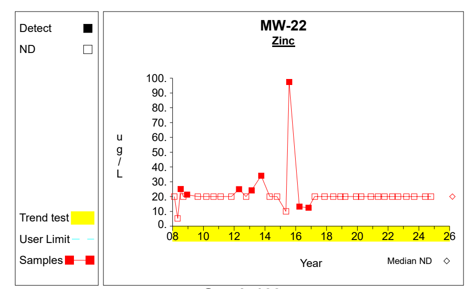
Graph 125



Graph 126

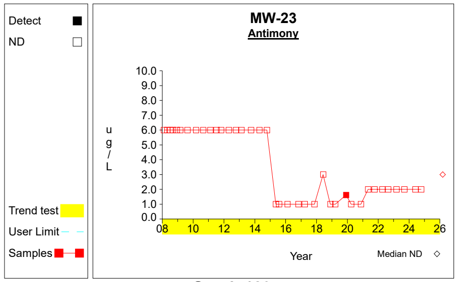


Graph 127

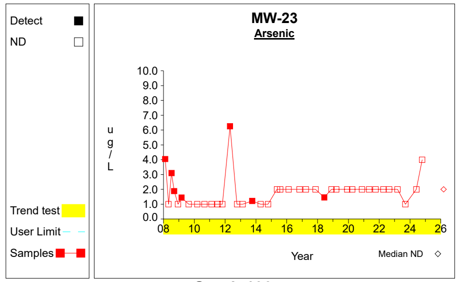


Graph 128

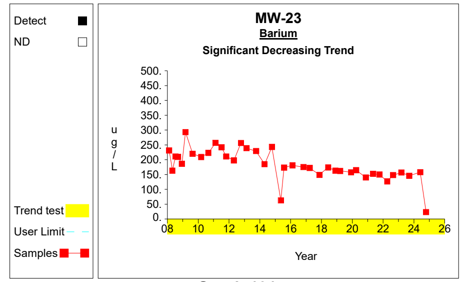
Time Series



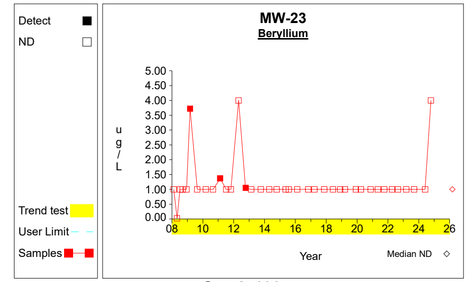
Graph 129



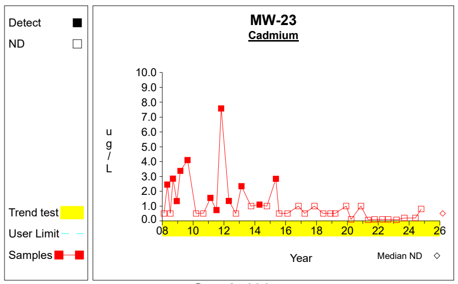
Graph 130



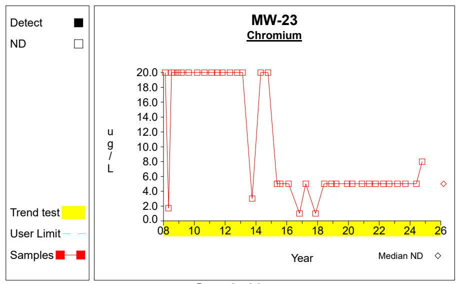
Graph 131



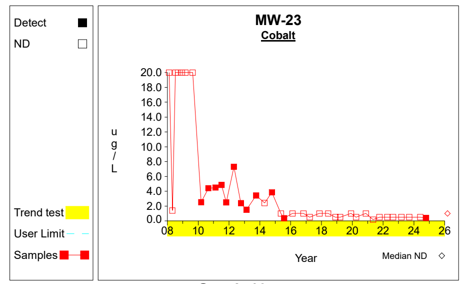
Graph 132



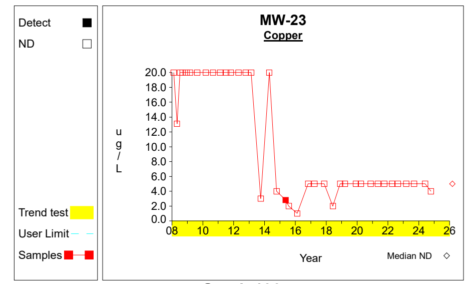
Graph 133



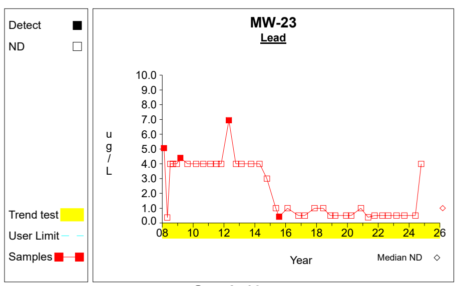
Graph 134



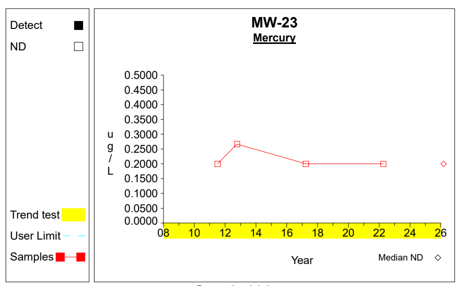
Graph 135



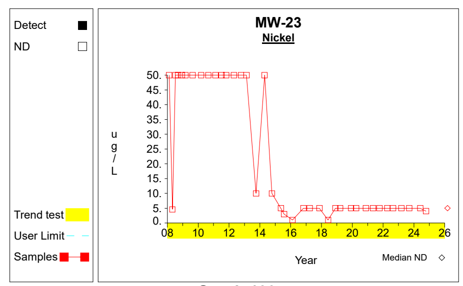
Graph 136



Graph 137



Graph 138



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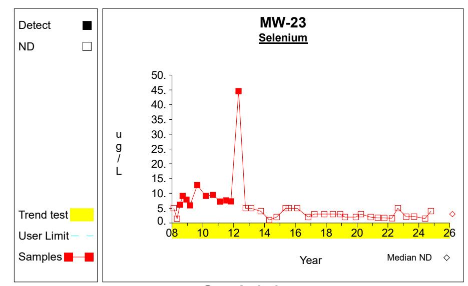

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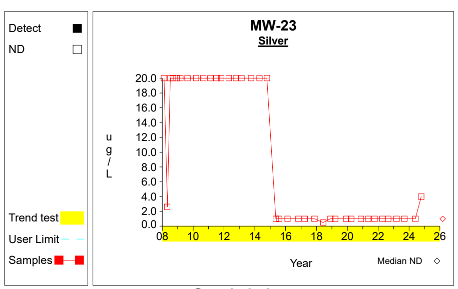
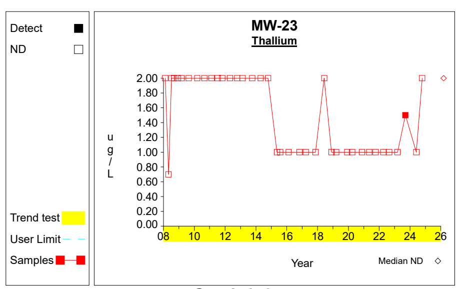
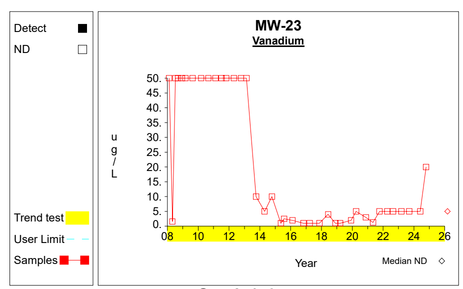


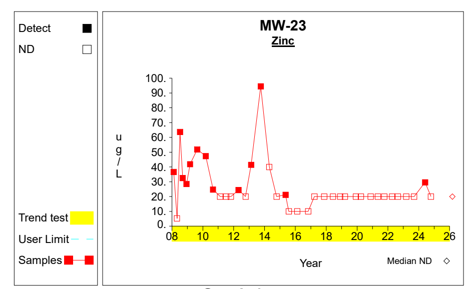
Graph 141



Graph 142

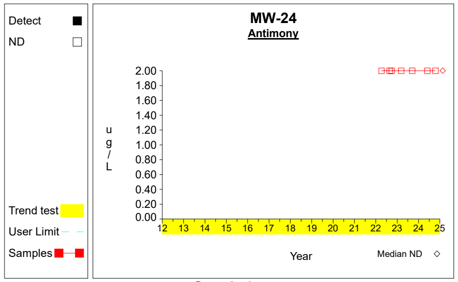


Graph 143

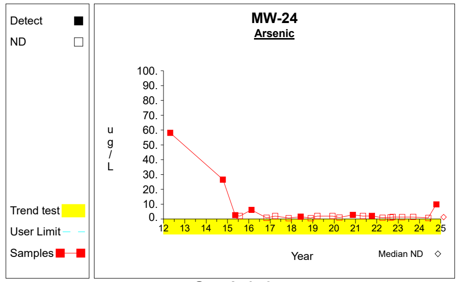


Graph 144

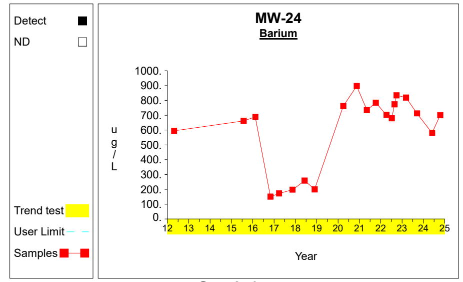
Time Series



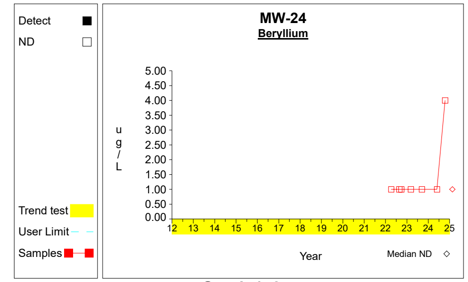
Graph 145



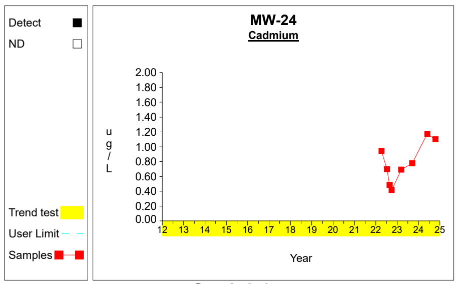
Graph 146



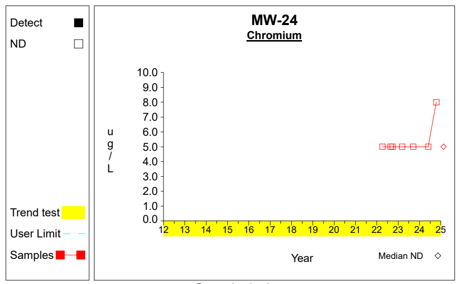
Graph 147



Graph 148



Graph 149



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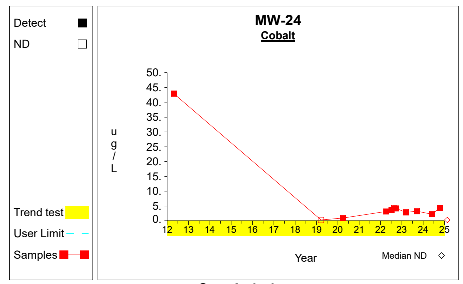
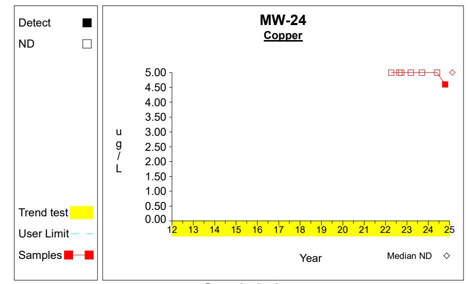
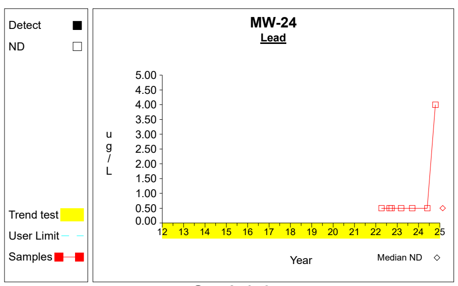


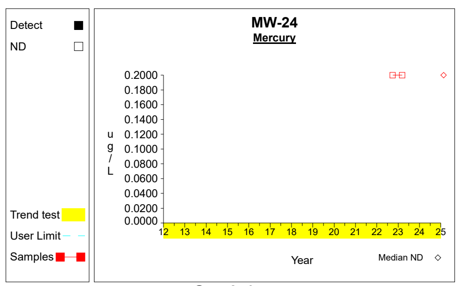
Graph 151



Graph 152



Graph 153



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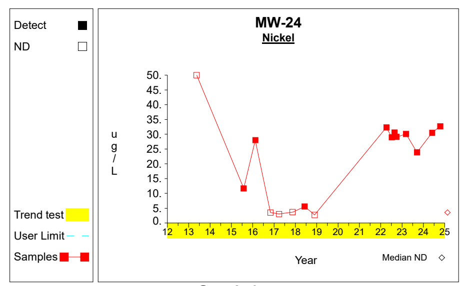

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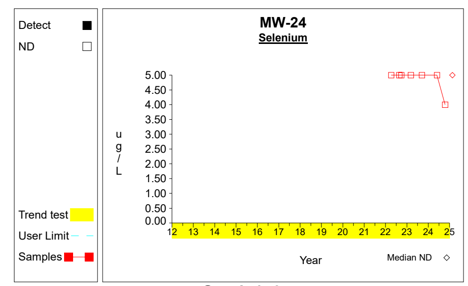
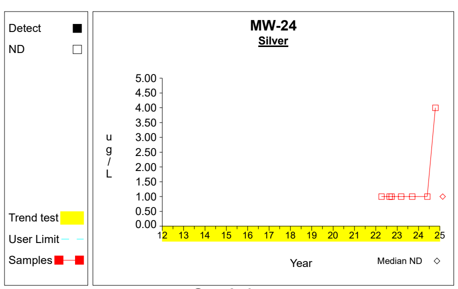
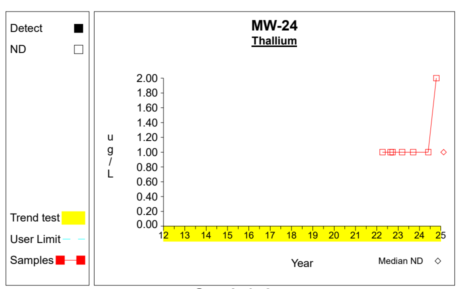


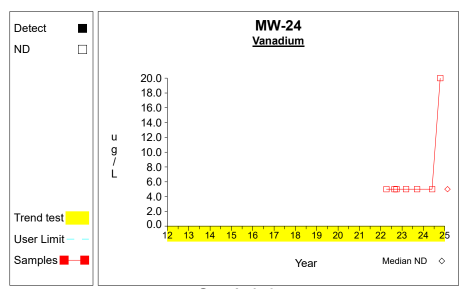
Graph 156



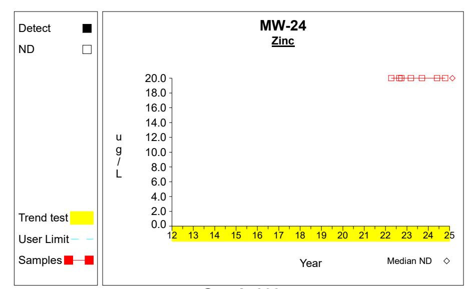
Graph 157



Graph 158

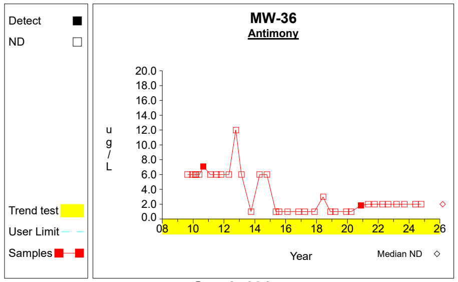


Graph 159

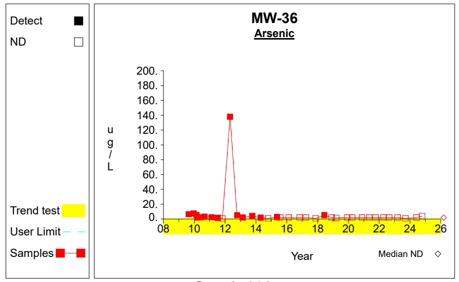


Graph 160

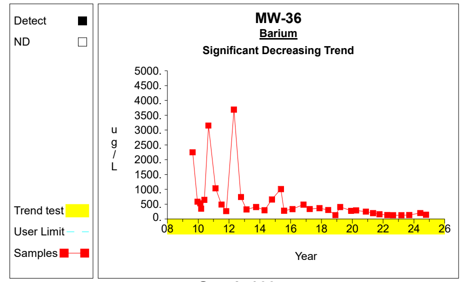
Time Series



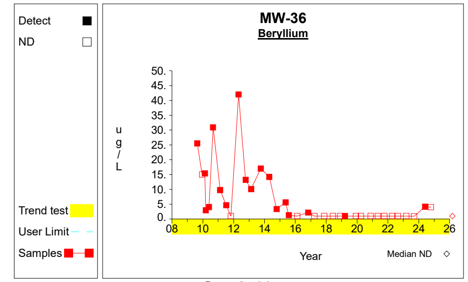
Graph 161



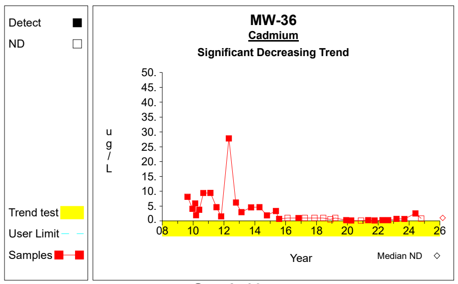
Graph 162



Graph 163



Graph 164



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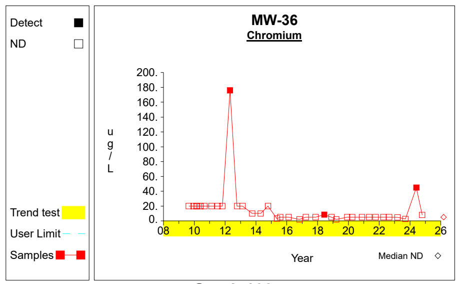
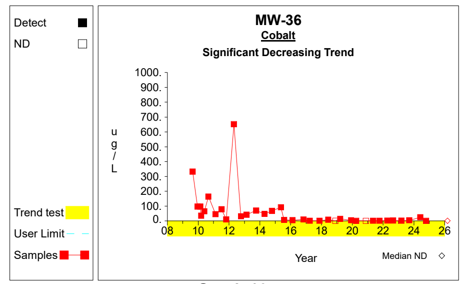
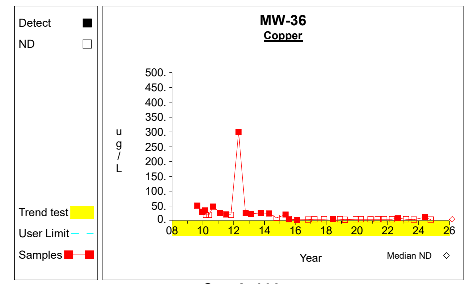


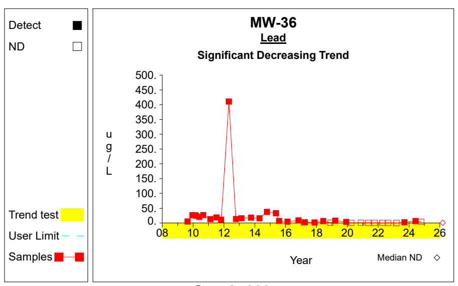
Graph 166



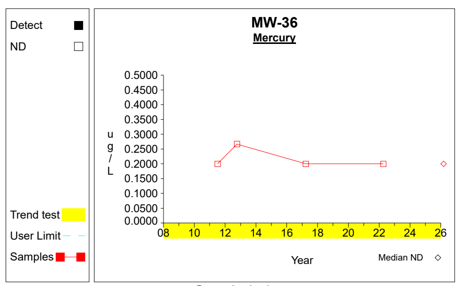
Graph 167



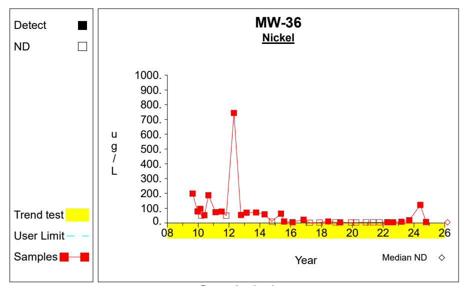
Graph 168



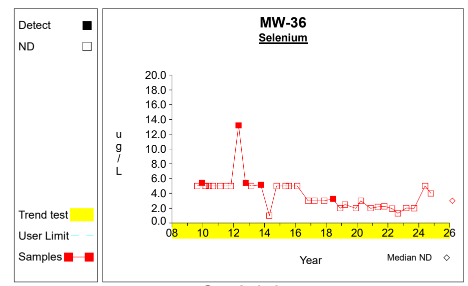
Graph 169



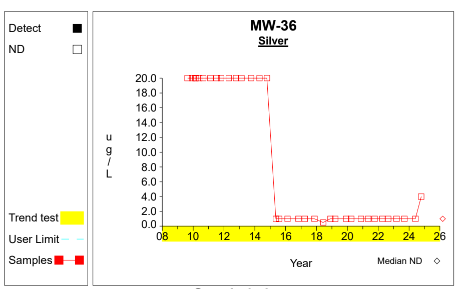
Graph 170



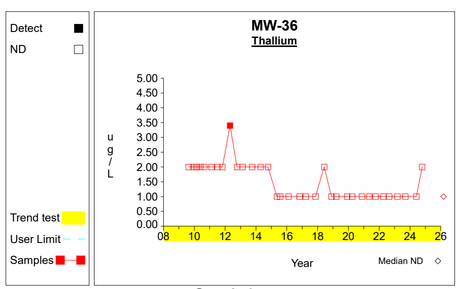
Graph 171



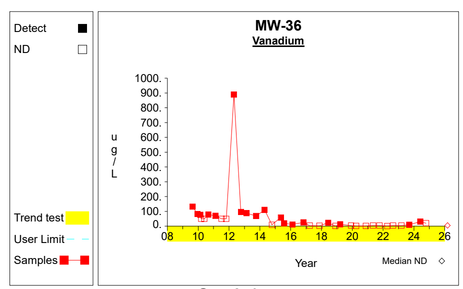
Graph 172



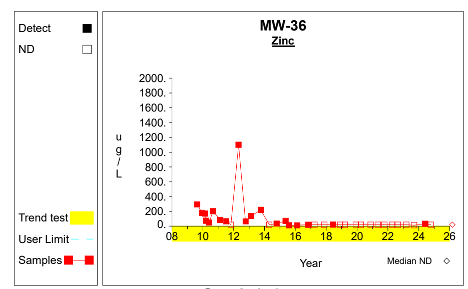
Graph 173



Graph 174

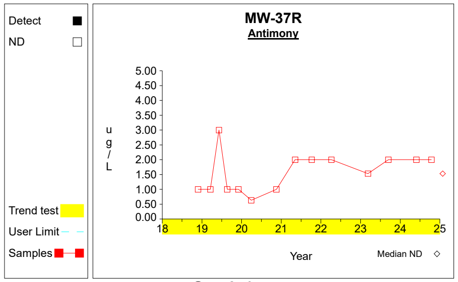


Graph 175

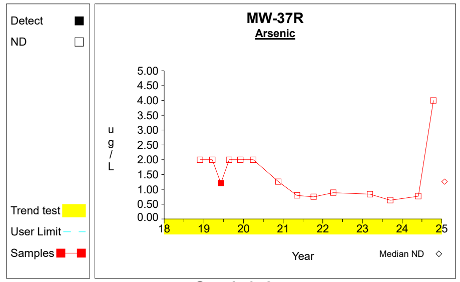


Graph 176

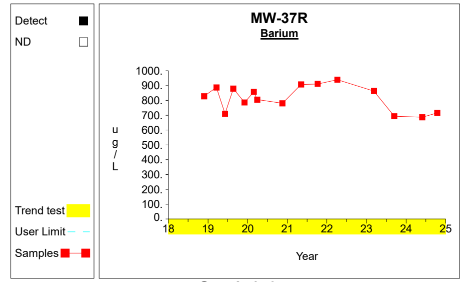
Time Series



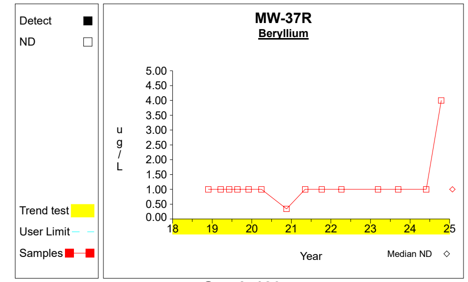
Graph 177



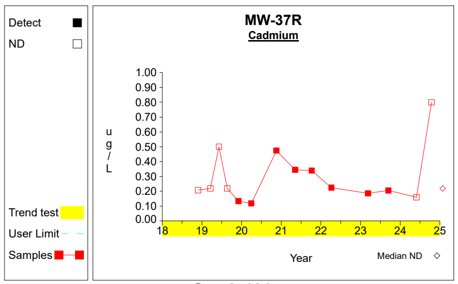
Graph 178



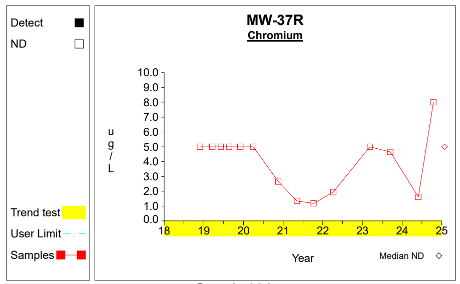
Graph 179



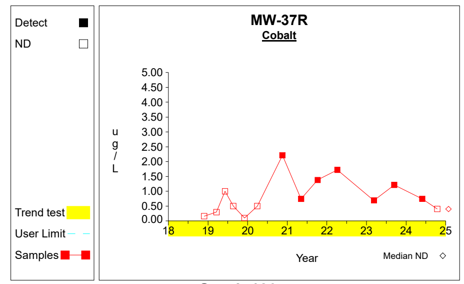
Graph 180



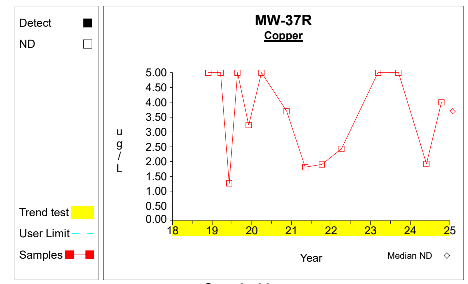
Graph 181



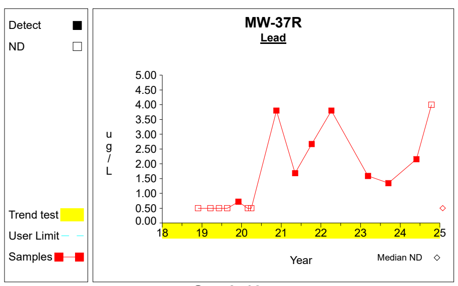
Graph 182



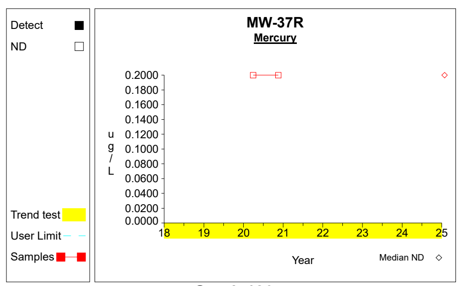
Graph 183



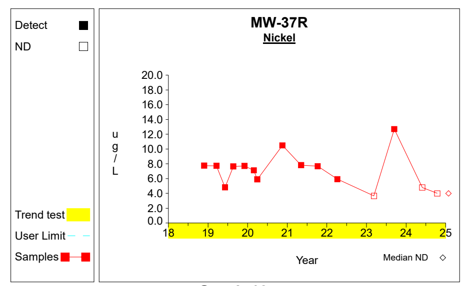
Graph 184



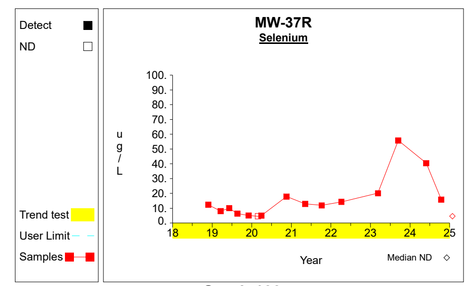
Graph 185



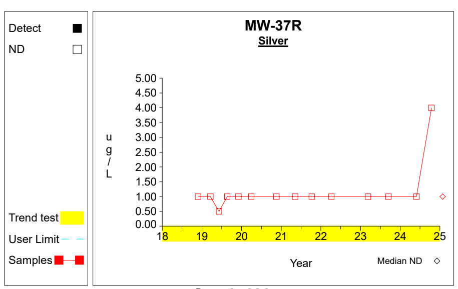
Graph 186



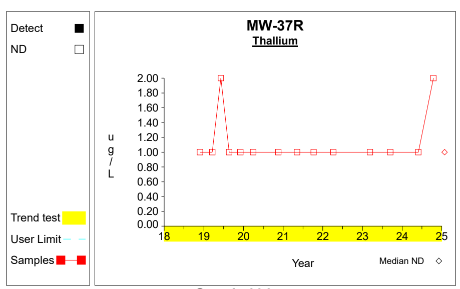
Graph 187



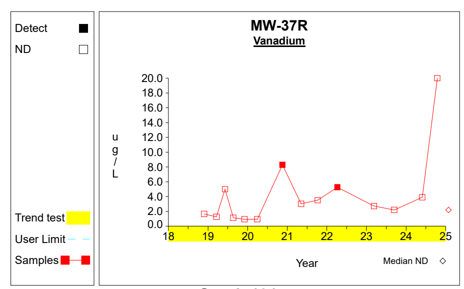
Graph 188



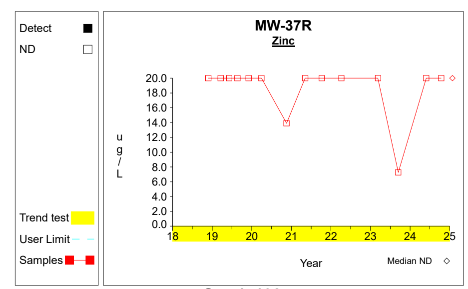
Graph 189



Graph 190

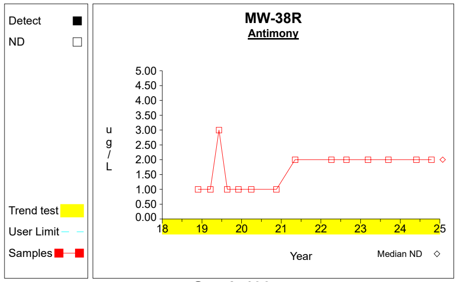


Graph 191

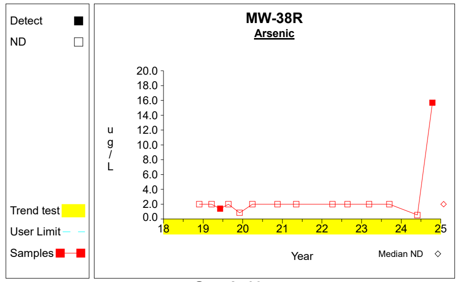


Graph 192

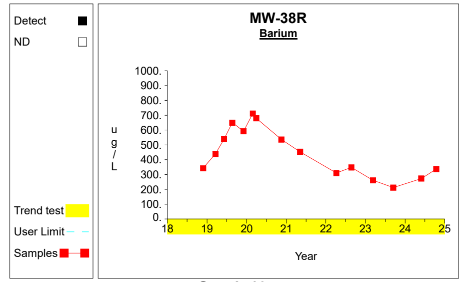
Time Series



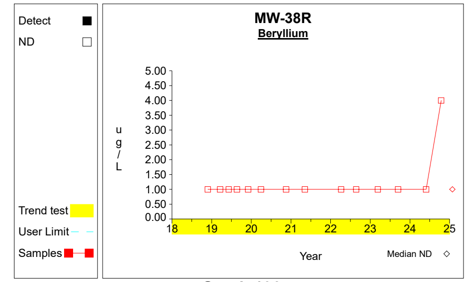
Graph 193



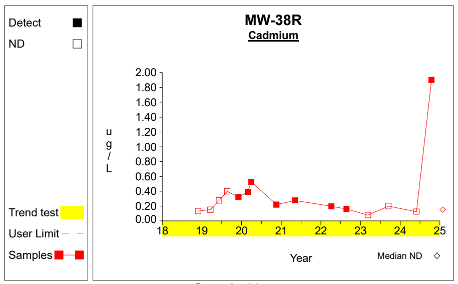
Graph 194



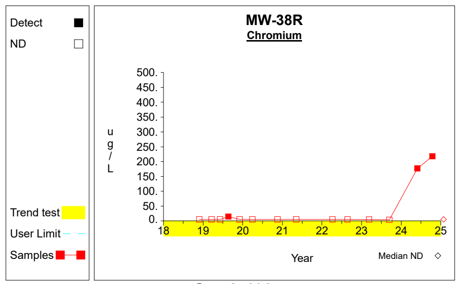
Graph 195



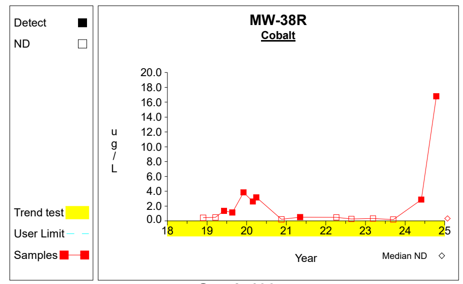
Graph 196



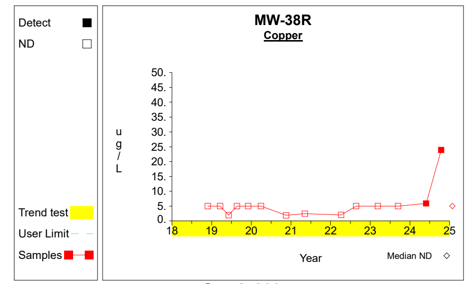
Graph 197



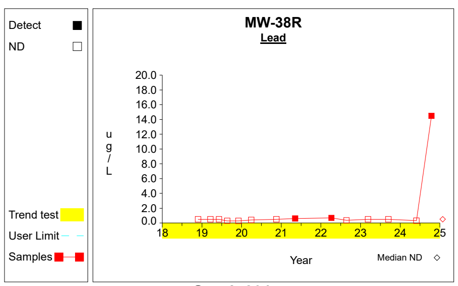
Graph 198



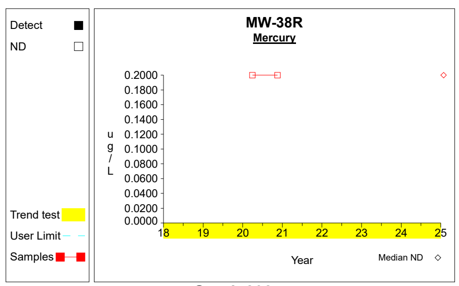
Graph 199



Graph 200



Graph 201



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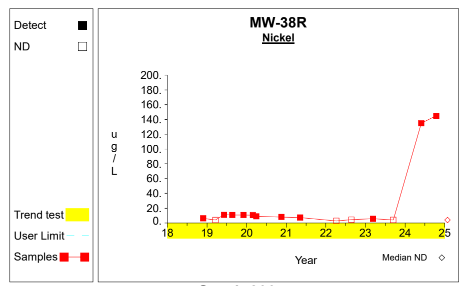

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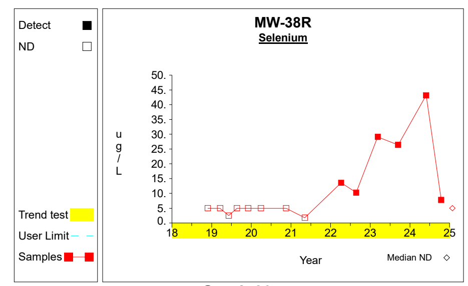
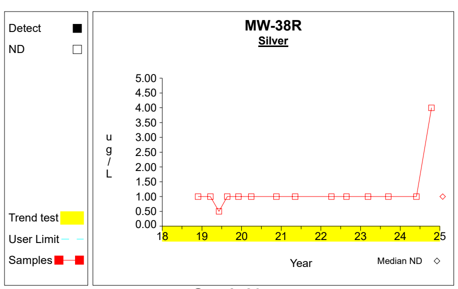
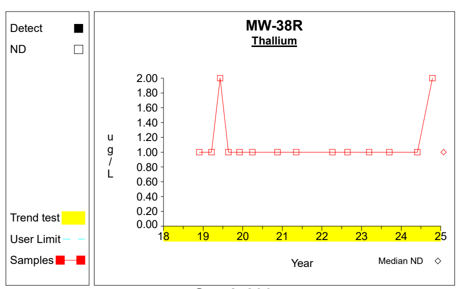


Graph 204



Graph 205



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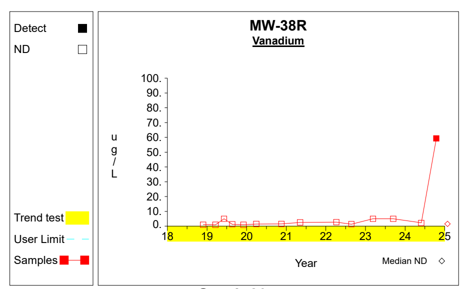
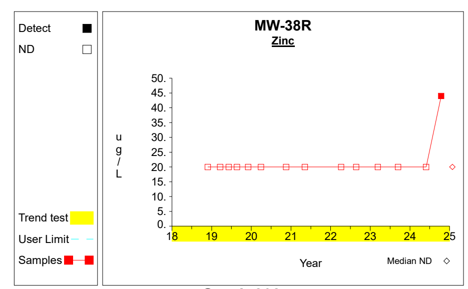


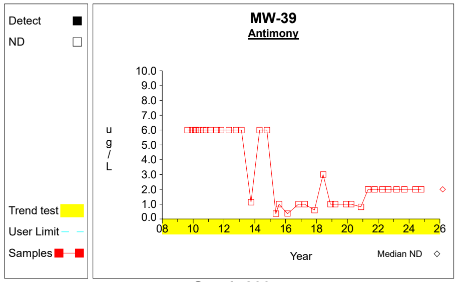
Graph 207



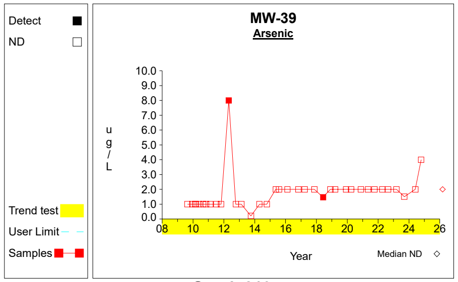
Graph 208

Cass County February 2025

Time Series



Graph 209



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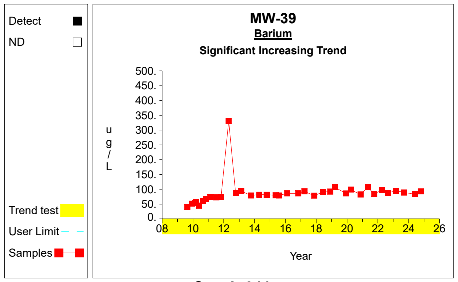
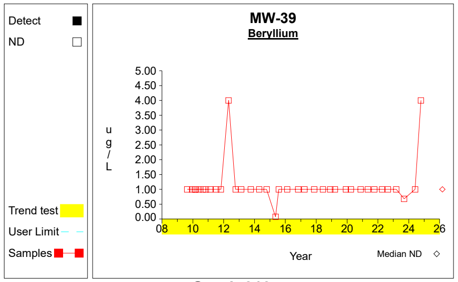
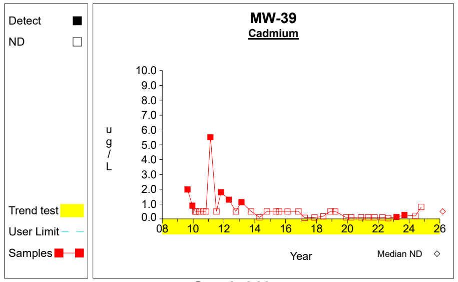


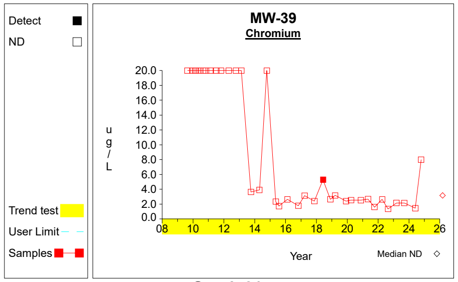
Graph 211



Graph 212



Graph 213



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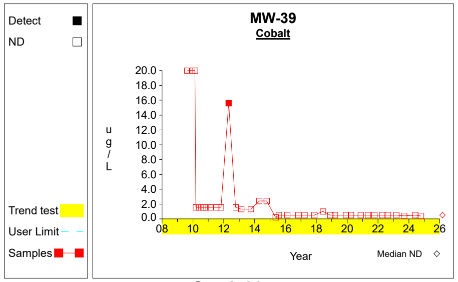

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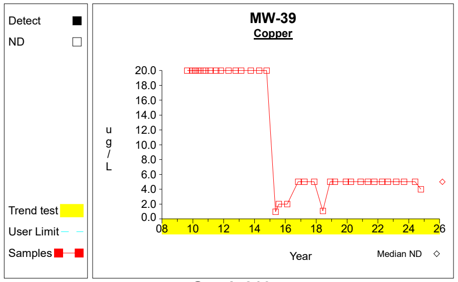

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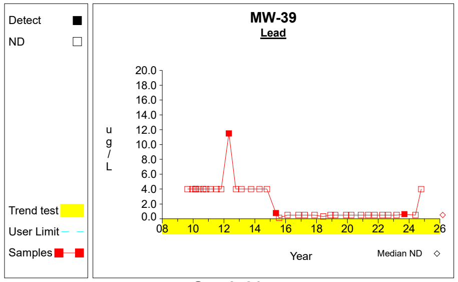
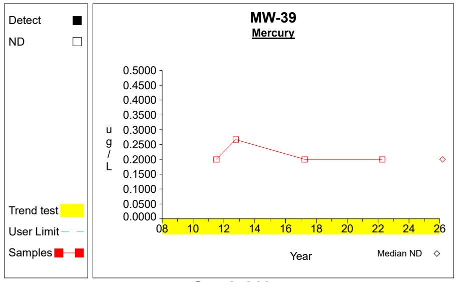
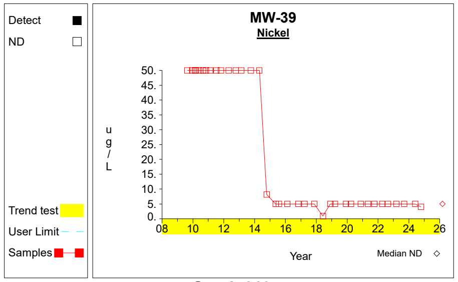


Graph 217



Graph 218



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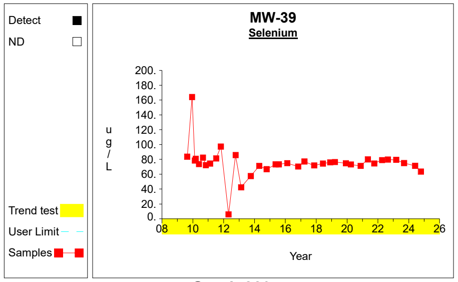

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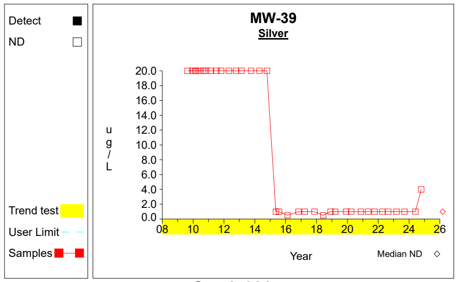

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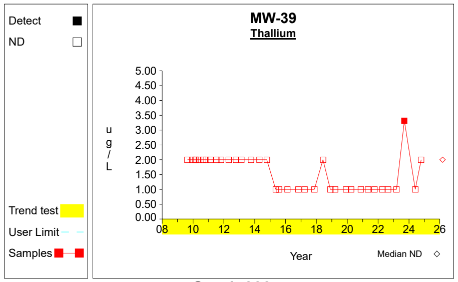
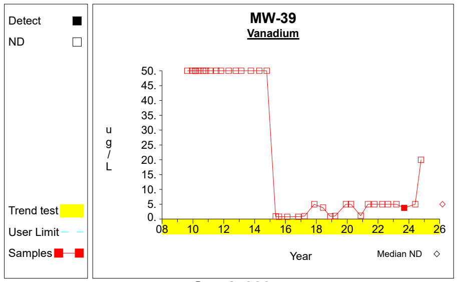
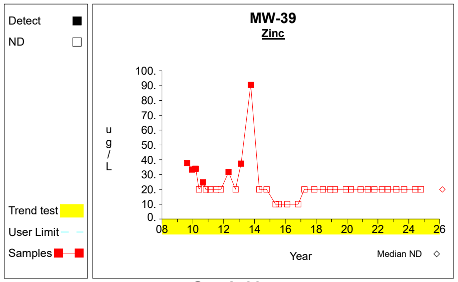


Graph 222

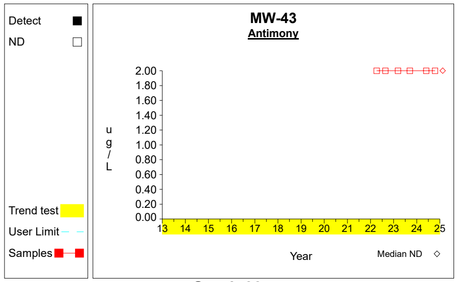


Graph 223

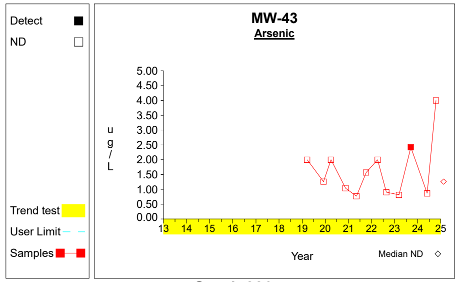


Graph 224

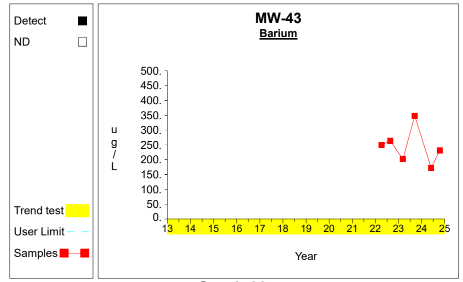
Time Series



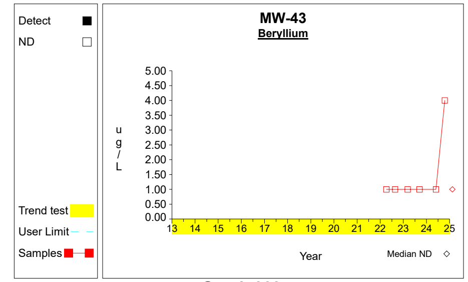
Graph 225



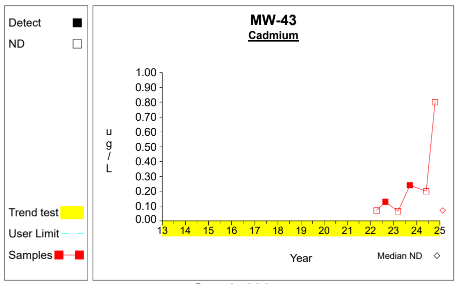
Graph 226



Graph 227



Graph 228



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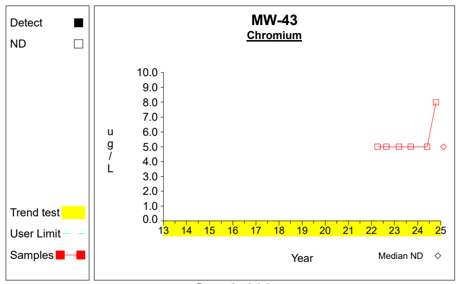
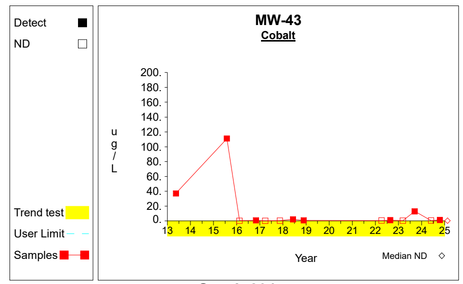
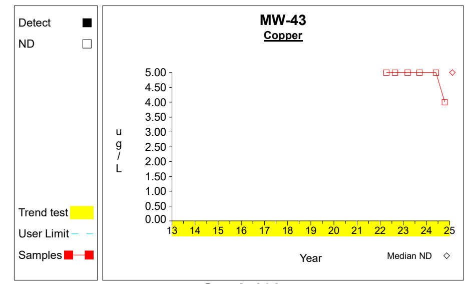


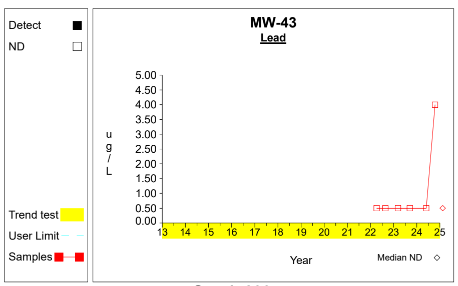
Graph 230



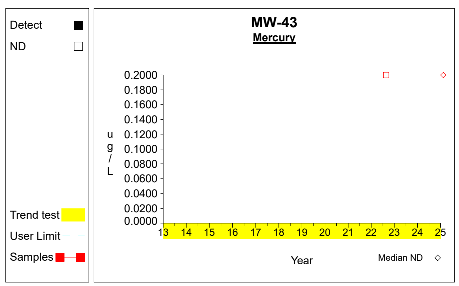
Graph 231



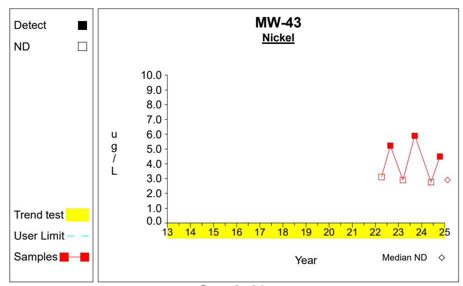
Graph 232



Graph 233



Graph 234



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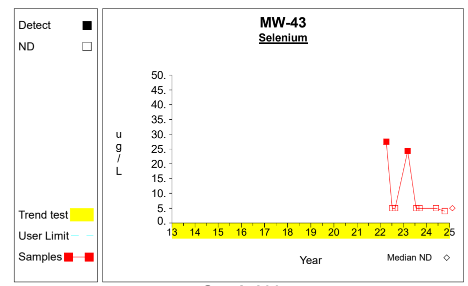

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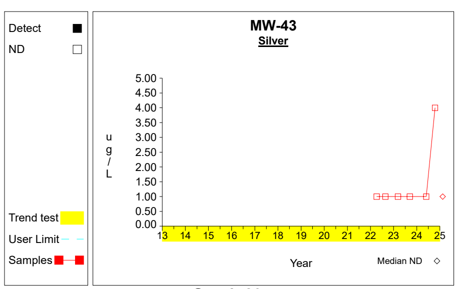
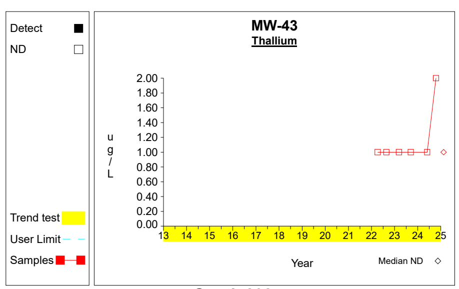
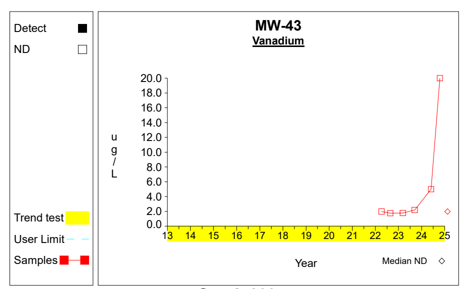


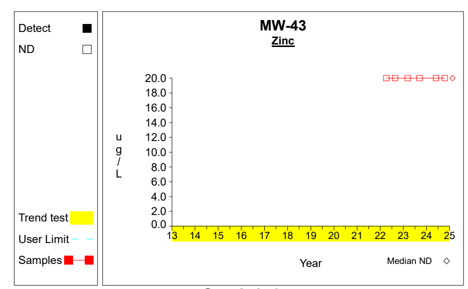
Graph 237



Graph 238

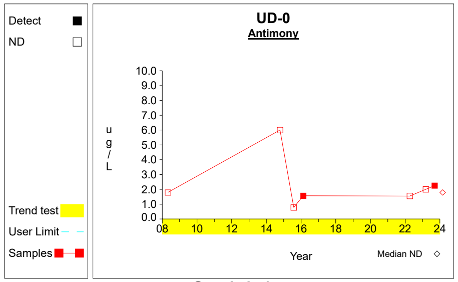


Graph 239

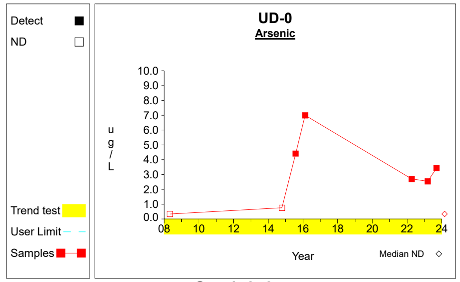


Graph 240

Time Series



Graph 241



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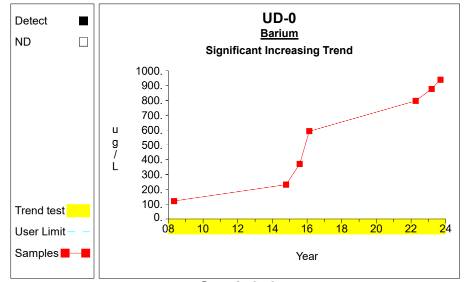
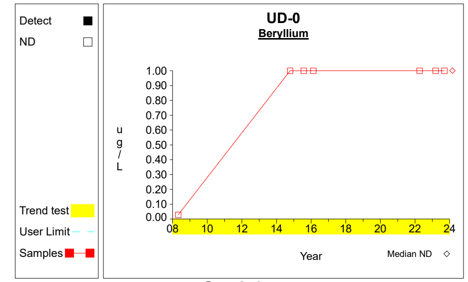
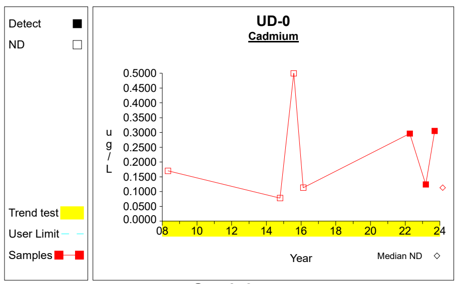


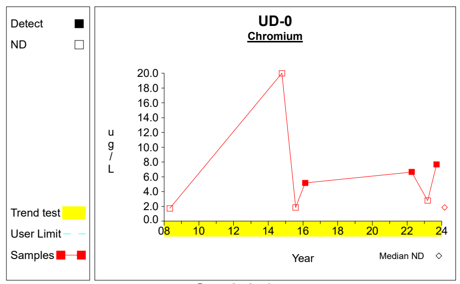
Graph 243



Graph 244



Graph 245



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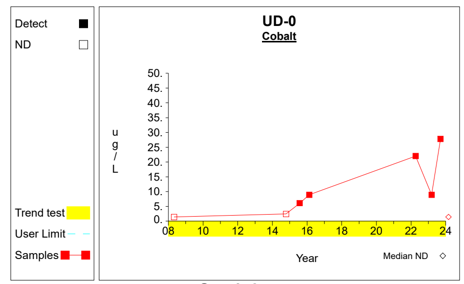

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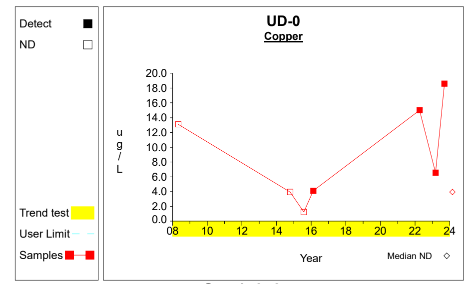
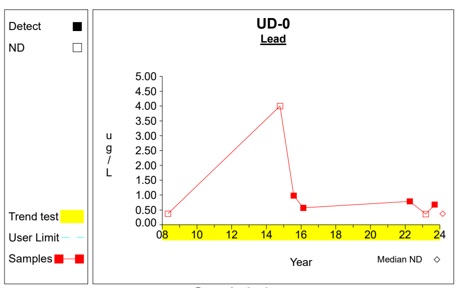


Graph 248



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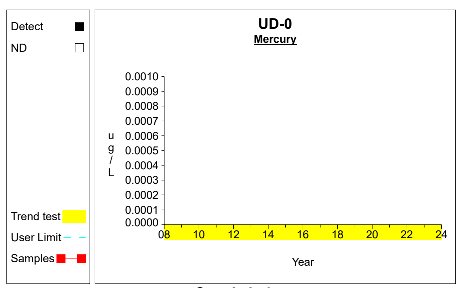
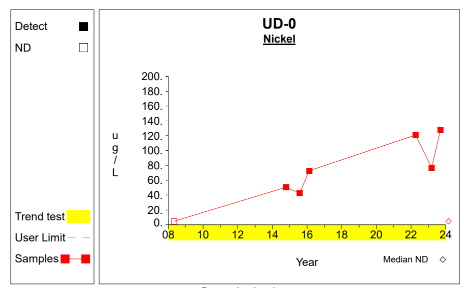
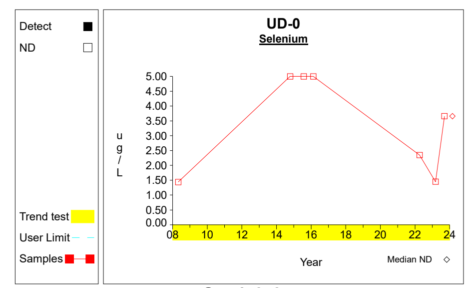


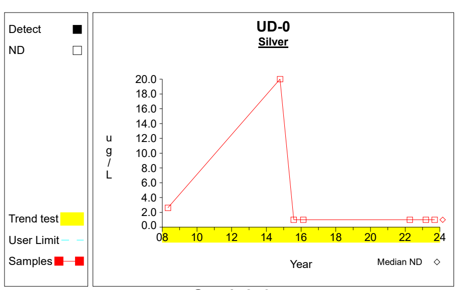
Graph 250



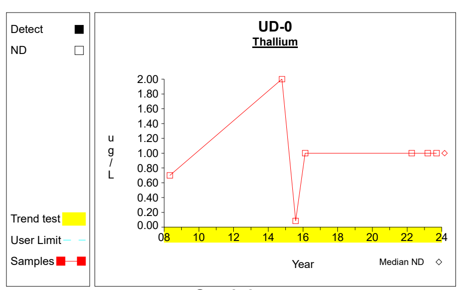
Graph 251



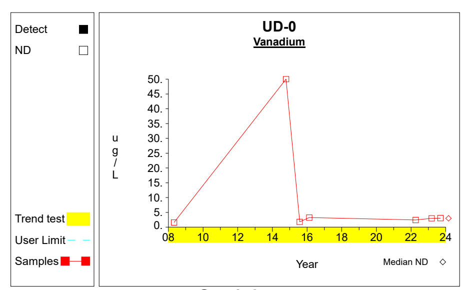
Graph 252



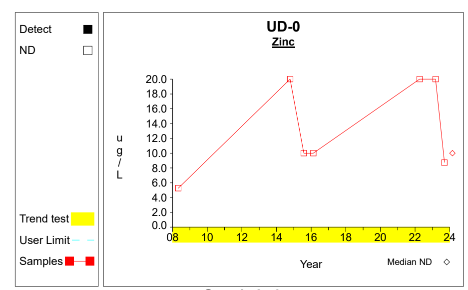
Graph 253



Graph 254

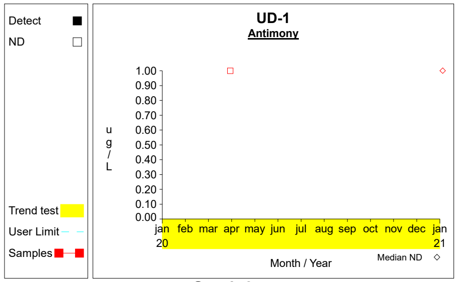


Graph 255

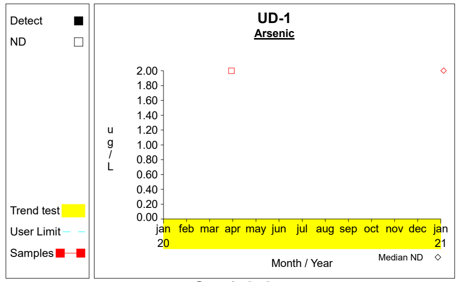


Graph 256

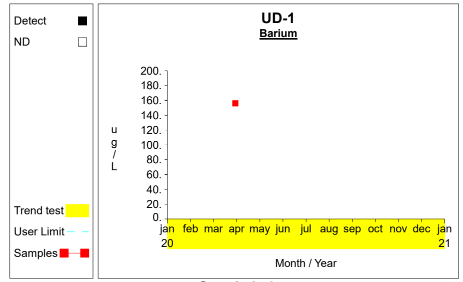
Time Series



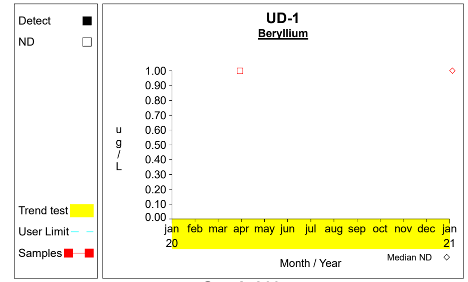
Graph 257



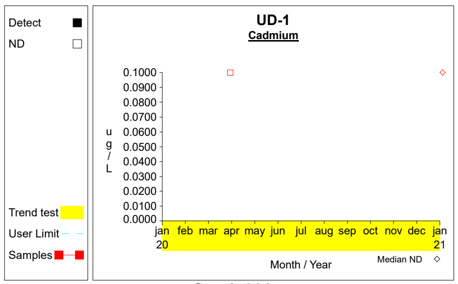
Graph 258



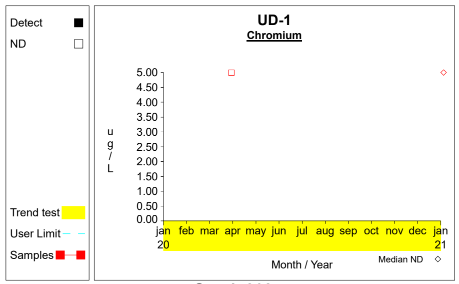
Graph 259



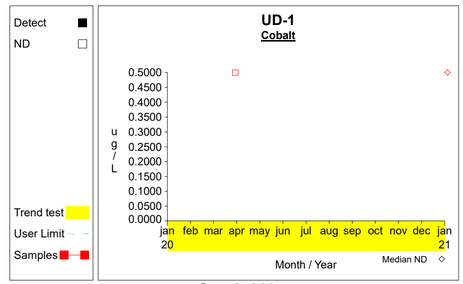
Graph 260



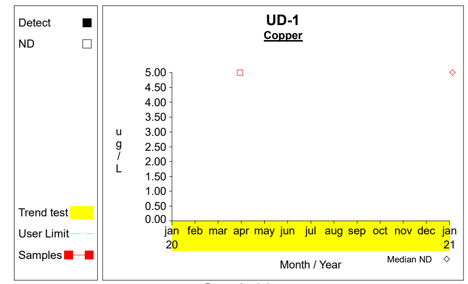
Graph 261



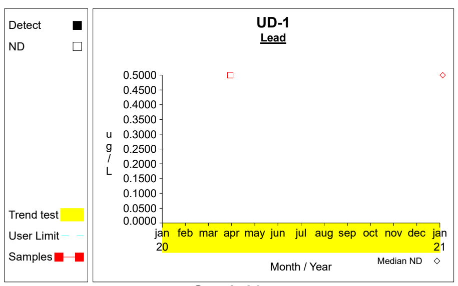
Graph 262



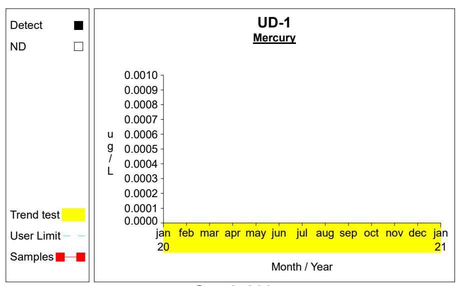
Graph 263



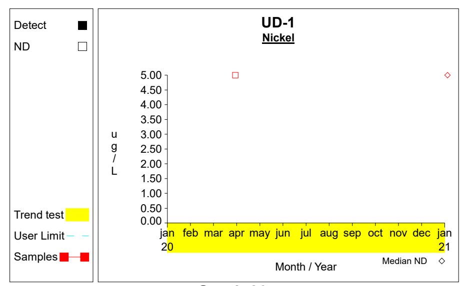
Graph 264



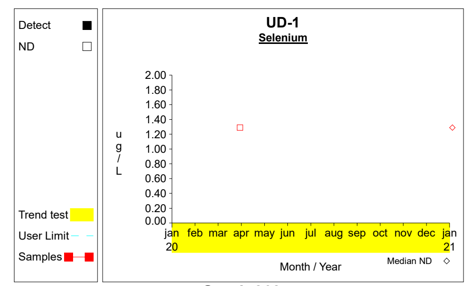
Graph 265



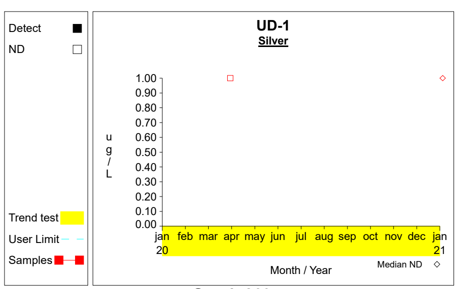
Graph 266



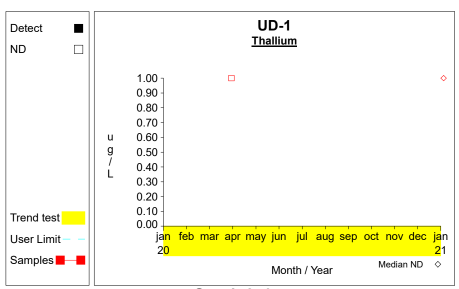
Graph 267



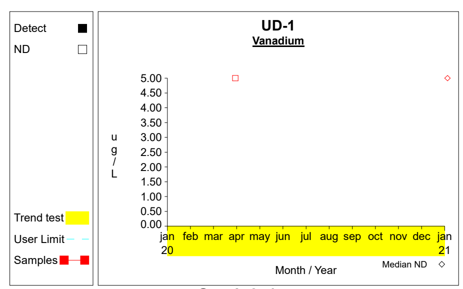
Graph 268



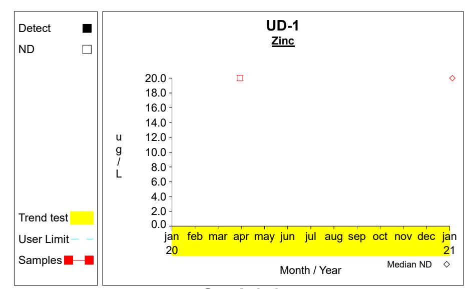
Graph 269



Graph 270



Graph 271



Graph 272

Appendix G

Assessment Testing Results Summary

Sulfide (green highlights =a full Appendix II sample) **Water Table System (mg/L)**

Date	MW-19	MW-21	MW-24	MW-37R	MW-38R	MW-39
7/7/11	**6.4**	**0.29**	NT	NT	NT	<0.12
10/27/11	<1	**3.9**	NT	NT	NT	NT
1/23/12	<1	<1	NT	NT	NT	NT
4/26/12	<1	<1	NT	NT	NT	NT
10/9/12	**2.6**	**4.5**	NT	NT	NT	<0.23
2/20/13	<1	<1	NT	NT	NT	NT
5/15/13	<1	NT	<1	NT	NT	NT
10/3/13	NT	<1	NT	NT	NT	NT
4/22/14	<1	<1	NT	NT	NT	NT
7/10/14	NT	NT	NT	NT	NT	NT
10/14/14	<1	NT	NT	NT	NT	NT
5/12/15	NT	NT	NT	NT	NT	NT
7/29/15	<1	<1	NT	NT	NT	NT
2/15/16	<1	<1	NT	NT	NT	NT
10/31/16	<1	<1	NT	NT	NT	NT
3/27/17	<1	<1	NT	NT	NT	<1
11/13/17	**3.09**	**4.93**	NT	NT	NT	NT
6/6/18	NT	<1	NT	NT	NT	NT
11/27/18	NT	<1	NT	NT	<1	NT
3/18/19	<1	**2.02**	NT	NT	NT	NT
12/2/19	<1	**0.707**	NT	NT	NT	NT
3/30/20	<1	**1.08**	NT	<1	<1	NT
11/17/20	NT	NT	NT	<1	<1	NT
5/6/21	NT	NT	NT	NT	NT	NT
10/7/21	NT	**0.588**	NT	NT	NT	NT
4/6/22	<1	<1	NT	NT	NT	<1
8/23/22	<1	<1	NT	NT	NT	NT
9/29/22	<1	NT	<1	NT	NT	NT
3/8/23	<1	<1	<1	NT	NT	NT
9/13/23	<1	<1	NT	NT	NT	NT
5/29/24	<1	<1	NT	NT	NT	NT
10/14/24	NT	NT	NT	NT	NT	NT

Sulfide (green highlights =a full Appendix II sample) **Dakota System (mg/L)**

Date	MW-11	MW-23	MW-36
8/29/09	<1	NT	NT
8/31/10	<1	NT	NT
7/7/11	NT	<0.12	<0.12
10/27/11	<1	NT	NT
10/9/12	NT	<0.23	<0.23
5/15/13	<1	NT	<1
4/22/14	NT	NT	NT
7/10/14	NT	NT	NT
10/14/14	NT	NT	NT
5/12/15	NT	NT	NT
2/15/16	<1	NT	NT
10/31/16	NT	NT	NT
3/27/17	NT	<1	<1
5/6/21	<1	NT	NT
10/7/21	<1	NT	NT
4/7/22	NT	0.781	<1
5/29/24	NT	NT	NT
10/14/24	NT	NT	NT

* Outlier

Gamma-Chlordane (green highlights =a full Appendix II sample) **Water Table System (ug/L)**

Date	MW-19	MW-21	MW-24	MW-37R	MW-38R	MW-39
10/9/12	**0.0633**	<0.064	NT	NT	NT	<0.032
2/20/13	<0.032	NT	NT	NT	NT	NT
10/3/13	**0.137**	NT	NT	NT	NT	NT
12/18/13	**0.124**	NT	NT	NT	NT	NT
4/22/14	**0.176**	NT	NT	NT	NT	NT
10/31/16	<0.174	NT	NT	NT	NT	NT
3/27/17	<0.034	<0.034	NT	NT	NT	<0.034
11/13/17	**0.029**	NT	NT	NT	NT	NT
6/6/18	**0.0207**	NT	NT	NT	NT	NT
11/27/18	<0.034	NT	NT	NT	NT	NT
3/18/19	<0.034	NT	NT	NT	NT	NT
12/2/19	<0.0328	NT	NT	NT	NT	NT
3/30/20	**0.0634**	NT	NT	<0.034	<0.034	NT
11/17/20	NT	NT	NT	<0.034	<0.034	NT
5/6/21	**0.119**	NT	NT	NT	NT	NT
10/7/21	<0.034	NT	NT	NT	NT	NT
4/6/22	<0.034	<0.034	NT	NT	NT	<0.034
8/23/22	NT	NT	NT	NT	NT	NT
9/29/22	NT	NT	<0.034	NT	NT	NT
3/8/23	NT	NT	<0.034	NT	NT	NT
9/13/23	<2	NT	NT	NT	NT	NT
5/29/24	<0.064	NT	NT	NT	NT	NT
10/14/24	<0.05	NT	NT	NT	NT	NT

Gamma-Chlordane (green highlights =a full Appendix II sample) **Dakota System (ug/L)**

Date	MW-11	MW-23	MW-36
10/9/12	NT	<0.032	<0.032
5/15/13	NT	NT	NT
4/22/14	NT	NT	NT
7/10/14	NT	NT	NT
10/14/14	NT	NT	NT
5/12/15	NT	NT	NT
2/15/16	<0.032	NT	NT
10/31/16	NT	NT	NT
3/27/17	NT	<0.032	<0.032
5/6/21	NT	NT	NT
10/7/21	NT	NT	NT
4/7/22	NT	<0.032	<0.032
5/29/24	NT	NT	NT
10/14/24	NT	NT	NT

* Outlier

Endosulfan I (green highlights =a full Appendix II sample) **Water Table System (mg/L)**

Date	MW-19	MW-21	MW-24	MW-37R	MW-38R	MW-39
7/7/11	<0.032	<0.032	NT	NT	NT	<0.032
10/27/11	NT	NT	NT	NT	NT	NT
1/23/12	NT	NT	NT	NT	NT	NT
4/26/12	NT	NT	NT	NT	NT	NT
10/9/12	<0.032	<0.032	NT	NT	NT	<0.032
2/20/13	NT	NT	NT	NT	NT	NT
5/15/13	NT	NT	NT	NT	NT	NT
10/3/13	NT	NT	NT	NT	NT	NT
4/22/14	NT	NT	NT	NT	NT	NT
7/10/14	NT	NT	NT	NT	NT	NT
10/14/14	NT	NT	NT	NT	NT	NT
5/12/15	NT	NT	NT	NT	NT	NT
7/29/15	NT	NT	NT	NT	NT	NT
2/15/16	NT	NT	NT	NT	NT	NT
10/31/16	NT	NT	NT	NT	NT	NT
3/27/17	<0.032	<0.032	NT	NT	NT	<0.032
11/13/17	NT	NT	NT	NT	NT	NT
6/6/18	NT	NT	NT	NT	NT	NT
11/27/18	NT	NT	NT	NT	NT	NT
3/18/19	NT	NT	NT	NT	NT	NT
12/2/19	NT	NT	NT	NT	NT	NT
3/30/20	NT	NT	NT	<0.036	<0.0356	NT
11/17/20	NT	NT	NT	<0.0348	<0.0337	NT
5/6/21	NT	NT	NT	NT	NT	NT
10/7/21	NT	NT	NT	NT	NT	NT
4/6/22	<0.0696	<0.064	NT	NT	NT	<0.0696
8/23/22	NT	NT	NT	NT	NT	NT
9/29/22	NT	NT	<0.0653	NT	NT	NT
3/8/23	NT	NT	<0.064	NT	NT	NT
9/13/23	NT	NT	NT	NT	NT	NT
5/29/24	NT	NT	NT	NT	NT	NT
10/14/24	<0.05	NT	NT	NT	NT	NT

Endosulfan I (green highlights =a full Appendix II sample) **Dakota System (mg/L)**

Date	MW-11	MW-23	MW-36
8/29/09	<0.032	NT	NT
8/31/10	<0.032	NT	NT
7/7/11	NT	<0.032	<0.032
10/27/11	<0.032	NT	NT
10/9/12	NT	<0.032	<0.032
2/15/16	0.00337	NT	NT
3/27/17	NT	<0.032	<0.032
5/6/21	<0.032	NT	NT
4/6/22	NT	<0.0667	<0.0667
5/29/24	NT	NT	NT
10/14/24	NT	NT	NT

* Outlier

Appendix H

Leachate Collection System Performance Evaluation Report

Appendix H.1

Atlantic NPDES Permit with Cass County Landfill as Industrial User

AMENDMENT TO NPDES PERMIT

Iowa NPDES Permit Number:	1509001	Date of Permit Issuance:	November 1, 2019
EPA Number:	IA0029025	Date of Permit Expiration:	October 31, 2024
		Date of this Amendment:	January 1, 2023

Name and Mailing Address of Applicant:
City of Atlantic
City Hall, 23 E 4th St
Atlantic, IA 50022

Identity and Location of Facility:
Atlantic City of STP
309 Sunnyside Lane
Atlantic, IA 50022

Section 6, T76N, R36W
Cass County

Pursuant to the authority of Iowa Code Section 455B.174, and of Rule 567-64.3, Iowa Administrative Code, the Director of the Iowa Department of Natural Resources has issued the above referenced permit. Pursuant to the same authority, the Director hereby amends said permit as set forth below:

The permit is being amended to cease the monitoring requirements for Atlantic Municipal Utilities as they have sealed their well and no longer discharge to the Atlantic STP. The changes are reflected on Page 12 of the amendment.

For the Department of Natural Resources:

By Ben Hucka Digitally signed by Ben Hucka Date: 2022.12.22 07:57:54 -06'00'

Ben Hucka
NPDES Section
ENVIRONMENTAL SERVICES DIVISION

AMENDMENT TO NPDES PERMIT

Iowa NPDES Permit Number:	1509001	Date of Permit Issuance:	November 1, 2019
EPA Number:	IA0029025	Date of Permit Expiration:	October 31, 2024
		Date of this Amendment:	October 1, 2022

Name and Mailing Address of Applicant:
City of Atlantic
City Hall, 23 E 4th St
Atlantic, IA 50022

Identity and Location of Facility:
Atlantic City of STP
309 Sunnyside Lane
Atlantic, IA 50022

Section 6, T76N, R36W
Cass County

Pursuant to the authority of Iowa Code Section 455B.174, and of Rule 567-64.3, Iowa Administrative Code, the Director of the Iowa Department of Natural Resources has issued the above referenced permit. Pursuant to the same authority, the Director hereby amends said permit as set forth below:

The permit is being amended to update the Nutrient Reduction Requirements page (Page 28) of the permit to require an updated nutrient reduction feasibility study be submitted by October 1, 2027.

For the Department of Natural Resources:

By Ben Hucka Digitally signed by Ben Hucka Date: 2022.09.30 14:07:10 -05'00'

Ben Hucka
NPDES Section
ENVIRONMENTAL SERVICES DIVISION

AMENDMENT TO NPDES PERMIT

Iowa NPDES Permit Number:	1509001	Date of Permit Issuance:	November 1, 2019
EPA Number:	IA0029025	Date of Permit Expiration:	October 31, 2024
		Date of this Amendment:	June 1, 2022

Name and Mailing Address of Applicant:
City of Atlantic
City Hall, 23 E 4th St
Atlantic, IA 50022

Identity and Location of Facility:
Atlantic City of STP
309 Sunnyside Lane
Atlantic, IA 50022

Section 6, T76N, R36W
Cass County

Pursuant to the authority of Iowa Code Section 455B.174, and of Rule 567-64.3, Iowa Administrative Code, the Director of the Iowa Department of Natural Resources has issued the above referenced permit. Pursuant to the same authority, the Director hereby amends said permit as set forth below:

The permit is being amended to change the total suspended solids limits for Mahle Engine Components and to remove the ammonia-nitrogen limits and monitoring for Cass County Sanitary Landfill, based on treatment agreements recently submitted to the department. The permit also updates the Monitoring and Reporting Requirements pages (6, 11, 15, and 21), the Additional Monitoring Requirements for the landfill (page 17), the Significant Industrial User Limitations, Monitoring, and Reporting Requirements (page 27), and the Standard Conditions (three unnumbered pages at the end of the permit).

For the Department of Natural Resources:

By Julie M Faas Digitally signed by Julie Faas
Date: 2022.05.27 09:23:54
-05'00'

Julie Faas
NPDES Section
ENVIRONMENTAL SERVICES DIVISION

IOWA DEPARTMENT OF NATURAL RESOURCES

National Pollutant Discharge Elimination System (NPDES) Permit

OWNER NAME & ADDRESS

CITY OF ATLANTIC
23 E. 4TH ST.
ATLANTIC, IA 50022

FACILITY NAME & ADDRESS

ATLANTIC CITY OF STP
309 SUNNYSIDE LN.
ATLANTIC, IA 50022

Section 6, T76N, R36W
Cass County

IOWA NPDES PERMIT NUMBER: 1509001
DATE OF ISSUANCE: 11/01/2019
DATE OF EXPIRATION: 10/31/2024

YOU ARE REQUIRED TO FILE FOR RENEWAL OF THIS PERMIT BY: 05/04/2024
EPA NUMBER: IA0029025

This permit is issued pursuant to the authority of section 402(b) of the Clean Water Act (33 U.S.C 1342(b)), Iowa Code section 455B.174, and rule 567-64.3, Iowa Administrative Code. You are authorized to operate the disposal system and to discharge the pollutants specified in this permit in accordance with the effluent limitations, monitoring requirements and other terms set forth in this permit.

You may appeal any condition of this permit by filing a written notice of appeal and request for administrative hearing with the director of this department within 30 days of your receipt of this permit.

Any existing unexpired Iowa operation permit or Iowa NPDES permit previously issued by the department for the facility identified above is revoked by the issuance of this permit. This provision does not apply to any authorization to discharge under the terms and conditions of a general permit issued by the department or to any permit issued exclusively for the discharge of stormwater.

FOR THE DEPARTMENT OF NATURAL RESOURCES

By ____

Karen Lodden
NPDES Section
ENVIRONMENTAL SERVICES DIVISION

Facility Name: ATLANTIC CITY OF STP
Permit Number: 1509001

Outfall No.: 003 DISCHARGE FROM AN ACTIVATED SLUDGE WASTEWATER TREATMENT FACILITY
Receiving Stream: EAST NISHNABOTNA RIVER
Route of Flow: EAST NISHNABOTNA RIVER

Class A1 waters are primary contact recreational use waters in which recreational or other uses may result in prolonged and direct contact with the water, involving considerable risks of ingesting water in quantities sufficient to pose a health hazard. Such activities would include, but not be limited to, swimming, diving, water skiing, and water contact recreational canoeing.

Waters designated Class B(WW1) are those in which temperature, flow and other habitat characteristics are suitable to maintain warm water game fish populations along with a resident aquatic community that includes a variety of native nongame fish and invertebrates species. These waters generally include border rivers, large interior rivers, and the lower segments of medium-size tributary streams.

Waters designated Class HH are those in which fish are routinely harvested for human consumption or waters both designated as a drinking water supply and in which fish are routinely harvested for human consumption.

Outfall No.: 004 BYPASS FROM THE EQUALIZATION BASIN OVERFLOW STRUCTURE
Receiving Stream: UNNAMED CREEK
Route of Flow: UNNAMED CREEK TO THE EAST NISHNABOTNA RIVER

Class A1 waters are primary contact recreational use waters in which recreational or other uses may result in prolonged and direct contact with the water, involving considerable risks of ingesting water in quantities sufficient to pose a health hazard. Such activities would include, but not be limited to, swimming, diving, water skiing, and water contact recreational canoeing.

Waters designated Class B(WW1) are those in which temperature, flow and other habitat characteristics are suitable to maintain warm water game fish populations along with a resident aquatic community that includes a variety of native nongame fish and invertebrates species. These waters generally include border rivers, large interior rivers, and the lower segments of medium-size tributary streams.

Bypasses from any portion of a treatment facility or from a sanitary sewer collection system designed to carry only sewage are prohibited.

Facility Name: ATLANTIC CITY OF STP
Permit Number: 1509001

Effluent Limitations:

You are prohibited from discharging pollutants except in compliance with the following effluent limitations:

003 DISCHARGE FROM AN ACTIVATED SLUDGE WASTEWATER TREATMENT FACILITY

Outfall: 003 Effective Dates: 11/01/2019 to 10/31/2024			
Parameter	**Season**	**Limit Type**	**Limits**
CBOD5			**85% Removal Required**
	Yearly	7 Day Average	40 MG/L 884 LBS/DAY
	Yearly	30 Day Average	25 MG/L 553 LBS/DAY
TOTAL SUSPENDED SOLIDS			**85% Removal Required**
	Yearly	7 Day Average	45 MG/L 995 LBS/DAY
	Yearly	30 Day Average	30 MG/L 663 LBS/DAY
AMMONIA NITROGEN (N)			
	JAN	30 Day Average	9.2 MG/L 169.3 LBS/DAY
	JAN	Daily Maximum	16.0 MG/L 349.3 LBS/DAY
	FEB	30 Day Average	10.5 MG/L 194.8 LBS/DAY
	FEB	Daily Maximum	15.1 MG/L 328.7 LBS/DAY
	MAR	30 Day Average	9.0 MG/L 166.5 LBS/DAY
	MAR	Daily Maximum	15.5 MG/L 337.8 LBS/DAY
	APR	30 Day Average	4.1 MG/L 75.2 LBS/DAY
	APR	Daily Maximum	16.4 MG/L 358.3 LBS/DAY
	MAY	30 Day Average	4.1 MG/L 78 LBS/DAY
	MAY	Daily Maximum	15.9 MG/L 347.8 LBS/DAY
	JUN	30 Day Average	2.8 MG/L 54 LBS/DAY
	JUN	Daily Maximum	15.2 MG/L 283 LBS/DAY
	JUL	30 Day Average	2.7 MG/L 49.6 LBS/DAY
	JUL	Daily Maximum	18.4 MG/L 272 LBS/DAY
	AUG	30 Day Average	2.5 MG/L 47.0 LBS/DAY
	AUG	Daily Maximum	17.0 MG/L 287 LBS/DAY
	SEP	30 Day Average	2.8 MG/L 52.1 LBS/DAY
	SEP	Daily Maximum	17.2 MG/L 316 LBS/DAY

Facility Name: ATLANTIC CITY OF STP

Permit Number: 1509001

Outfall: 003 Effective Dates: 11/01/2019 to 10/31/2024			
Parameter	**Season**	**Limit Type**	**Limits**
AMMONIA NITROGEN (N)			
	OCT	30 Day Average	4.2 MG/L 77.0 LBS/DAY
	OCT	Daily Maximum	16.4 MG/L 363 LBS/DAY
	NOV	30 Day Average	6.2 MG/L 115.1 LBS/DAY
	NOV	Daily Maximum	15.3 MG/L 335.3 LBS/DAY
	DEC	30 Day Average	6.6 MG/L 122.6 LBS/DAY
	DEC	Daily Maximum	16.7 MG/L 364.3 LBS/DAY
COPPER, TOTAL (AS CU)			
	Yearly	30 Day Average	0.02933 MG/L 0.5211 LBS/DAY
	Yearly	Daily Maximum	0.02933 MG/L 0.6144 LBS/DAY
ACUTE TOXICITY, CERIODAPHNIA			
	Yearly	Daily Maximum	1 NO TOXICITY
ACUTE TOXICITY, PIMEPHALES			
	Yearly	Daily Maximum	1 NO TOXICITY
DISSOLVED OXYGEN			
	JAN	Daily Minimum	3.0 MG/L
	FEB	Daily Minimum	3.0 MG/L
	MAR	Daily Minimum	3.0 MG/L
	APR	Daily Minimum	3.0 MG/L
	MAY	Daily Minimum	3.0 MG/L
	JUN	Daily Minimum	3.0 MG/L
	JUL	Daily Minimum	5.0 MG/L
	AUG	Daily Minimum	5.0 MG/L
	SEP	Daily Minimum	5.0 MG/L
	OCT	Daily Minimum	3.0 MG/L
	NOV	Daily Minimum	3.0 MG/L
	DEC	Daily Minimum	3.0 MG/L
PH			
	Yearly	Daily Maximum	9.0 STD UNITS
	Yearly	Daily Minimum	6.5 STD UNITS

Facility Name: ATLANTIC CITY OF STP

Permit Number: 1509001

Outfall: 003 Effective Dates: 11/01/2019 to 10/31/2024			
Parameter	**Season**	**Limit Type**	**Limits**
E. COLI			
	MAR	Geometric Mean	126 #/100 ML
	APR	Geometric Mean	126 #/100 ML
	MAY	Geometric Mean	126 #/100 ML
	JUN	Geometric Mean	126 #/100 ML
	JUL	Geometric Mean	126 #/100 ML
	AUG	Geometric Mean	126 #/100 ML
	SEP	Geometric Mean	126 #/100 ML
	OCT	Geometric Mean	126 #/100 ML
	NOV	Geometric Mean	126 #/100 ML
ANNUAL AVERAGE NITROGEN DISCHARGED (AS N)			
	Yearly	Annual Average	105 LBS/DAY

Facility Name: ATLANTIC CITY OF STP
Permit Number: 1509001

Monitoring and Reporting Requirements

(a) Samples and measurements taken shall be representative of the volume and nature of the monitored wastewater.

(b) Analytical and sampling methods specified in 40 CFR Part 136 or other methods approved in writing by the department shall be utilized. All effluent samples for which a limit applies must be analyzed using sufficiently sensitive methods (i.e. testing procedures) approved under 567 IAC Chapter 63 and 40 CFR Part 136 for the analysis of pollutants or pollutant parameters or as required under 40 CFR chapter I, subchapter N or O.

For the purposes of this paragraph, an approved method is sufficiently sensitive when:
(1) the method minimum level (ML) is at or below the level of the effluent limit established in the permit for the measured pollutant or pollutant parameter; or
(2) the method has the lowest ML of the approved analytical methods for the measured pollutant or pollutant parameter.

Samples collected for operational testing need not be analyzed by approved analytical methods; however, commonly accepted test methods should be used.

(c) You are required to report all data including calculated results needed to determine compliance with the limitations contained in this permit. The results of any monitoring not specified in this permit performed at the compliance monitoring point and analyzed according to 40 CFR Part 136 shall be included in the calculation and reporting of any data submitted in accordance with this permit. This includes daily maximums and minimums, 30-day averages and 7-day averages for all parameters that have concentration (mg/l) and mass (lbs/day) limits. In addition, flow data shall be reported in million gallons per day (MGD).

(d) Records of monitoring activities and results shall include for all samples: the date, exact place and time of the sampling; the dates the analyses were performed; who performed the analyses; the analytical techniques or methods used; and the results of such analyses.

(e) Results of all monitoring shall be recorded on forms provided by, or approved by, the department, and shall be submitted to the appropriate regional field office of the department by the fifteenth day following the close of the reporting period. Your reporting period is on a MONTHLY basis, ending on the last day of each reporting period.

(f) Operational performance monitoring for treatment unit process control shall be conducted to ensure that the facility is properly operated in accordance with its design. The results of any operational performance monitoring need not be reported to the department, but shall be maintained in accordance with rule 567 IAC 63.2 (455B). The results of any operational performance monitoring specified in this permit shall be submitted to the department in accordance with these reporting requirements.

(g) Chapter 63 of the rules provides you with further explanation of your monitoring requirements.

Facility Name: ATLANTIC CITY OF STP
Permit Number: 1509001

Outfall	Wastewater Parameter	Sample Frequency	Sample Type	Monitoring Location
The following monitoring requirements shall be in effect from 11/01/2019 to 10/31/2024				
003	FLOW	7/WEEK OR DAILY	24 HOUR TOTAL	RAW WASTE - TOTAL
003	BIOCHEMICAL OXYGEN DEMAND (BOD5)	2 TIMES PER WEEK	24 HOUR COMPOSITE	RAW INFLUENT AT GRIT CHAMBER
003	NITROGEN, TOTAL (AS N)	1 TIME PER WEEK	24 HOUR COMPOSITE	RAW INFLUENT AT GRIT CHAMBER
003	NITROGEN, TOTAL KJELDAHL (AS N)	1 EVERY MONTH	24 HOUR COMPOSITE	RAW INFLUENT AT GRIT CHAMBER
003	PH	2 TIMES PER WEEK	GRAB	RAW INFLUENT AT GRIT CHAMBER
003	PHOSPHORUS, TOTAL (AS P)	1 TIME PER WEEK	24 HOUR COMPOSITE	RAW INFLUENT AT GRIT CHAMBER
003	TEMPERATURE	2 TIMES PER WEEK	GRAB	RAW INFLUENT AT GRIT CHAMBER
003	TOTAL SUSPENDED SOLIDS	1 TIME PER WEEK	24 HOUR COMPOSITE	RAW INFLUENT AT GRIT CHAMBER
003	ANNUAL AVERAGE NITROGEN DISCHARGED (AS N)	1 EVERY 12 MONTHS	CALCULATED	CALCULATION REPORTED ANNUALLY ON DMR
003	DISSOLVED OXYGEN	2 TIMES PER WEEK	GRAB	WHEN DISINFECTION IS IN USE, TEST AT THE UV CHANNEL. WHEN DISINFECTION IS NOT IN USE, TEST AFTER THE FLOW EQ TANK.
003	ACUTE TOXICITY, CERIODAPHNIA	1 EVERY 12 MONTHS	24 HOUR COMPOSITE	EFFLUENT AFTER DISINFECTION
003	ACUTE TOXICITY, PIMEPHALES	1 EVERY 12 MONTHS	24 HOUR COMPOSITE	EFFLUENT AFTER DISINFECTION
003	AMMONIA NITROGEN (N)	2 TIMES PER WEEK	24 HOUR COMPOSITE	EFFLUENT AFTER DISINFECTION
003	CBOD5	2 TIMES PER WEEK	24 HOUR COMPOSITE	EFFLUENT AFTER DISINFECTION
003	COPPER, TOTAL (AS CU)	1 EVERY MONTH	24 HOUR COMPOSITE	EFFLUENT AFTER DISINFECTION
003	E. COLI	1 EVERY 3 MONTHS	GRAB	EFFLUENT AFTER DISINFECTION
003	FLOW	7/WEEK OR DAILY	24 HOUR TOTAL	MAGMETER POST DISINFECTION
003	NITROGEN, TOTAL (AS N)	1 TIME PER WEEK	24 HOUR COMPOSITE	EFFLUENT AFTER DISINFECTION
003	PH	2 TIMES PER WEEK	GRAB	EFFLUENT AFTER DISINFECTION
003	PHOSPHORUS, TOTAL (AS P)	1 TIME PER WEEK	24 HOUR COMPOSITE	EFFLUENT AFTER DISINFECTION
003	TEMPERATURE	2 TIMES PER WEEK	GRAB	EFFLUENT AFTER DISINFECTION
003	TOTAL SUSPENDED SOLIDS	1 TIME PER WEEK	24 HOUR COMPOSITE	EFFLUENT AFTER DISINFECTION

Special Monitoring Requirements

Outfall #	**Description**
003	**FLOW**
	TOTAL RAW WASTE (FLOW)

Definitions:

Process Flow (PF) - The flow rate from the raw waste pumps and totalization from the Process magnetic flow meter

Flow Equalization Flow (FEF) - Storm pump flows flowing in a positive direction to the flow equalization lagoon and measured in the flow equalization magnetic flow meter

Equalization Lagoon Return Flow (ELRF) - When flow is being returned from the flow equalization basin to the process, the flows measured in the flow equalization magnetic meter in the negative direction

Directions:

*Total raw waste flow shall be calculating by choosing the applicable scenario specified below:

When the storm pump flow is flowing in a positive direction:

Total Raw Waste = PF + FEF

When the flow is being returned from the flow equalization basin to the process:

Total Raw Waste = PF – ELRF

When no storm pump flow is being sent to the equalization basin and no flow is being returned from the flow equalization basin to the process:

Total Raw Waste = PF

When during a 24 hour period, Flow Equalization Flow and Equalization Lagoon Return Flow are occurring:

Total Raw Waste = PF + (FEF – ELRF)

* Non-potable water flow shall be subtracted from each of the above described Total Raw Waste flow scenarios

Facility Name: ATLANTIC CITY OF STP

Permit Number: 1509001

NITROGEN, TOTAL (AS N)

Total nitrogen shall be determined by testing for Total Kjeldahl Nitrogen (TKN) and nitrate + nitrite nitrogen and reporting the sum of the TKN and nitrate +
nitrite results (reported as N). Nitrate + nitrite can be analyzed together or separately.

E. COLI

The limit for E. coli of 126 org/100 ml specified on the Effluent Limitations pages of this permit for Outfall 003 is a geometric mean. The disinfection season is established in the Iowa Administrative Code, Subparagraph 567 IAC 61.3(3)“a”(1), and is in effect from March 15 to November 15. Any disinfection system (chlorine, UV light, etc.) shall be operated to comply with the limit during the entire disinfection season whenever wastewater is being discharged from Outfall 003.

The facility must collect and analyze a minimum of five samples in one calendar month during each 3-month period from March 15 to November 15. The 3-month periods are March – May, June – August, and September – November. The collection of five samples in each 3-month period will result in a minimum of 15 samples being collected during a calendar year. For example, for the first 3-month period, the operator may choose April as the calendar month to collect the 5 individual E. coli samples to determine compliance with the limits. The operator may also choose the months of March or May as well, as long as each of the 5 samples is collected during a single calendar month. The same principle applies to the other two 3-month periods during the disinfection season. The following requirements apply to the individual samples collected in one calendar month:
Samples must be spaced over one calendar month.
No more than one sample can be collected on any one day.
There must be a minimum of two days between each sample.
No more than two samples may be collected in a period of seven consecutive days.

If the effluent has been disinfected using chlorine, ultraviolet light (UV), or any other process intended to disrupt the biological integrity of the E. coli, the samples shall be analyzed using the Most Probable Number method found in Standard Method 9223B (Colilert® or Colilert-18® made by IDEXX Laboratories, Inc.). If the effluent has not been disinfected the samples may be analyzed using either the MPN method above or EPA Method 1603: Escherichia coli (E. coli) in water by membrane filtration using modified membrane-thermotolerant E. coli agar (modified mTEC) or mColiBlue-24® made by the Hach Company.

The geometric mean must be calculated using all valid sample results collected during a month. The geometric mean formula is as follows: Geometric Mean = (Sample one * Sample two * Sample three * Sample four *Sample five…Sample N)^(1/N), which is the Nth root of the result of the multiplication of all of the sample results where N = the number of samples. If a sample result is a less than value, the value reported by the lab without the less than sign should be used in the geometric mean calculation.

The geometric mean can be calculated in one of the following ways:
Use a scientific calculator that can calculate the powers of numbers.
Enter the samples in Microsoft Excel and use the function “GEOMEAN” to perform the calculation.
Use the geometric mean calculator on the Iowa DNR webpage at:
http://www.iowadnr.gov/InsideDNR/RegulatoryWater/NPDESWastewaterPermitting/NPDESOperatorInformation/BacteriaSampling.aspx.

Facility Name: ATLANTIC CITY OF STP

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COPPER, TOTAL (AS CU)

Sample and analyze your final effluent for parameters listed below at the frequency of one time per week. EPA approved test methods shall be used to test at a detection level at or below the levels listed after each parameter. If a sample result is not at a detection level which is low enough to demonstrate compliance with the limit in the permit, the facility will be considered to be non-compliant with that limit.

Copper 0.0093mg/L

ANNUAL AVERAGE NITROGEN DISCHARGED (AS N)

Annually, calculate the average of all total nitrogen mass (lbs/day) sample results from the previous 12 months. Report the annual average in the August Discharge Monitoring Report (DMR) each year.

Calculation: Sum of all mass measurements (lbs/day) in the last 12 months divided by the total number of measurements in the last 12 months.

Facility Name: ATLANTIC CITY OF STP
Permit Number: 1509001

Significant Industrial User Discharges:

Significant Industrial User: ATLANTIC MUNICIPAL UTILITIES

Outfall #	Outfall Description
001	RAW WELL WATER FROM WELL #7 PRIOR TO DISCHARGE TO THE MUNICIPAL COLLECTION SYSTEM.

Monitoring and Reporting Requirements

(a) Samples and measurements taken shall be representative of the volume and nature of the monitored wastewater.

(b) Analytical and sampling methods specified in 40 CFR Part 136 or other methods approved in writing by the department shall be utilized. All effluent samples for which a limit applies must be analyzed using sufficiently sensitive methods (i.e. testing procedures) approved under 567 IAC Chapter 63 and 40 CFR Part 136 for the analysis of pollutants or pollutant parameters or as required under 40 CFR chapter I, subchapter N or O.

For the purposes of this paragraph, an approved method is sufficiently sensitive when:
(1) the method minimum level (ML) is at or below the level of the effluent limit established in the permit for the measured pollutant or pollutant parameter; or
(2) the method has the lowest ML of the approved analytical methods for the measured pollutant or pollutant parameter.

Samples collected for operational testing need not be analyzed by approved analytical methods; however, commonly accepted test methods should be used.

(c) You are required to report all data including calculated results needed to determine compliance with the limitations contained in this permit. The results of any monitoring not specified in this permit performed at the compliance monitoring point and analyzed according to 40 CFR Part 136 shall be included in the calculation and reporting of any data submitted in accordance with this permit. This includes daily maximums and minimums, 30-day averages and 7-day averages for all parameters that have concentration (mg/l) and mass (lbs/day) limits. In addition, flow data shall be reported in million gallons per day (MGD).

(d) Records of monitoring activities and results shall include for all samples: the date, exact place and time of the sampling; the dates the analyses were performed; who performed the analyses; the analytical techniques or methods used; and the results of such analyses.

(e) Results of all monitoring shall be recorded on forms provided by, or approved by, the department, and shall be submitted to the appropriate regional field office of the department by the fifteenth day following the close of the reporting period. Your reporting period is on a MONTHLY basis, ending on the last day of each reporting period.

(f) Operational performance monitoring for treatment unit process control shall be conducted to ensure that the facility is properly operated in accordance with its design. The results of any operational performance monitoring need not be reported to the department, but shall be maintained in accordance with rule 567 IAC 63.2 (455B). The results of any operational performance monitoring specified in this permit shall be submitted to the department in accordance with these reporting requirements.

(g) Chapter 63 of the rules provides you with further explanation of your monitoring requirements.

Facility Name: ATLANTIC CITY OF STP
Permit Number: 1509001

ATLANTIC MUNICIPAL UTILITIES				
Outfall	**Wastewater Parameter**	**Sample Frequency**	**Sample Type**	**Monitoring Location**
The following monitoring requirements shall be in effect from 11/01/2019 to 12/31/2022				
001	FLOW	1 TIME PER WEEK	24 HOUR TOTAL	RAW WELL WATER FROM WELL #7
001	TETRACHLOROETHENE	1 EVERY 3 MONTHS	GRAB	RAW WELL WATER FROM WELL #7

Facility Name: ATLANTIC CITY OF STP
Permit Number: 1509001

Significant Industrial User Discharges:

Significant Industrial User: CASS COUNTY SANITARY LANDFILL

Outfall #	**Outfall Description**
001	DISCHARGE TO THE ATLANTIC MUNICIPAL COLLECTION SYSTEM

Significant Industrial User Effluent Limitations

You are prohibited from discharging pollutants except in compliance with the following effluent limitations:

CASS COUNTY SANITARY LANDFILL
Outfall: 001 Effective Dates: 11/01/2019 to 10/31/2024

Parameter	Season	Limit Type	Limit Values
FLOW			
	Yearly	DAILY MAXIMUM	0.04 MGD
BIOCHEMICAL OXYGEN DEMAND (BOD5)			
	Yearly	30 Day Average	100 LBS/DAY
TOTAL SUSPENDED SOLIDS			
	Yearly	30 Day Average	100 LBS/DAY
ZINC, TOTAL (AS ZN)			
	Yearly	30 Day Average	0.133 MG/L
	Yearly	DAILY MAXIMUM	0.133 MG/L
CADMIUM, TOTAL (AS CD)			
	Yearly	30 Day Average	0.001 MG/L
	Yearly	DAILY MAXIMUM	0.0024 MG/L
CHROMIUM, HEXAVALENT, AS CR (CHROMIUM VI)			
	Yearly	30 Day Average	0.217 MG/L
	Yearly	DAILY MAXIMUM	0.217 MG/L
CYANIDE, TOTAL (AS CN)			
	Yearly	30 Day Average	0.012 MG/L
	Yearly	DAILY MAXIMUM	0.024 MG/L

Facility Name: ATLANTIC CITY OF STP

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CASS COUNTY SANITARY LANDFILL
Outfall: 001 Effective Dates: 11/01/2019 to 10/31/2024

Parameter	Season	Limit Type	Limit Values
MERCURY, TOTAL (AS HG)			
	Yearly	30 Day Average	0.001 MG/L
	Yearly	DAILY MAXIMUM	0.002 MG/L
NICKEL, TOTAL (AS NI)			
	Yearly	30 Day Average	0.193 MG/L
	Yearly	DAILY MAXIMUM	0.242 MG/L
ARSENIC, TOTAL (AS AS)			
	Yearly	30 Day Average	0.369 MG/L
	Yearly	DAILY MAXIMUM	0.377 MG/L
SELENIUM, TOTAL (AS SE)			
	Yearly	30 Day Average	0.012 MG/L
	Yearly	DAILY MAXIMUM	0.021 MG/L
SILVER, TOTAL (AS AG)			
	Yearly	30 Day Average	0.004 MG/L
	Yearly	DAILY MAXIMUM	0.004 MG/L
COPPER, TOTAL (AS CU)			
	Yearly	30 Day Average	0.029 MG/L
	Yearly	DAILY MAXIMUM	0.029 MG/L
LEAD, TOTAL (AS PB)			
	Yearly	30 Day Average	0.007 MG/L
	Yearly	DAILY MAXIMUM	0.076 MG/L
PH			
	Yearly	DAILY MAXIMUM	10.0 STD UNITS
	Yearly	DAILY MINIMUM	5.0 STD UNITS

Outfall: 001 Effective Dates: 05/01/2020 to 10/31/2024

Parameter	Season	Limit Type	Limit Values
NITROGEN, TOTAL KJELDAHL (AS N)			
	Yearly	30 Day Average	100 LBS/DAY

Monitoring and Reporting Requirements

(a) Samples and measurements taken shall be representative of the volume and nature of the monitored wastewater.

(b) Analytical and sampling methods specified in 40 CFR Part 136 or other methods approved in writing by the department shall be utilized. All effluent samples for which a limit applies must be analyzed using sufficiently sensitive methods (i.e. testing procedures) approved under 567 IAC Chapter 63 and 40 CFR Part 136 for the analysis of pollutants or pollutant parameters or as required under 40 CFR chapter I, subchapter N or O.

For the purposes of this paragraph, an approved method is sufficiently sensitive when:
(1) the method minimum level (ML) is at or below the level of the effluent limit established in the permit for the measured pollutant or pollutant parameter; or
(2) the method has the lowest ML of the approved analytical methods for the measured pollutant or pollutant parameter.

Samples collected for operational testing need not be analyzed by approved analytical methods; however, commonly accepted test methods should be used.

(c) You are required to report all data including calculated results needed to determine compliance with the limitations contained in this permit. The results of any monitoring not specified in this permit performed at the compliance monitoring point and analyzed according to 40 CFR Part 136 shall be included in the calculation and reporting of any data submitted in accordance with this permit. This includes daily maximums and minimums, 30-day averages and 7-day averages for all parameters that have concentration (mg/l) and mass (lbs/day) limits. In addition, flow data shall be reported in million gallons per day (MGD).

(d) Records of monitoring activities and results shall include for all samples: the date, exact place and time of the sampling; the dates the analyses were performed; who performed the analyses; the analytical techniques or methods used; and the results of such analyses.

(e) Results of all monitoring shall be recorded on forms provided by, or approved by, the department, and shall be submitted to the appropriate regional field office of the department by the fifteenth day following the close of the reporting period. Your reporting period is on a MONTHLY basis, ending on the last day of each reporting period.

(f) Operational performance monitoring for treatment unit process control shall be conducted to ensure that the facility is properly operated in accordance with its design. The results of any operational performance monitoring need not be reported to the department, but shall be maintained in accordance with rule 567 IAC 63.2 (455B). The results of any operational performance monitoring specified in this permit shall be submitted to the department in accordance with these reporting requirements.

(g) Chapter 63 of the rules provides you with further explanation of your monitoring requirements.

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CASS COUNTY SANITARY LANDFILL				
Outfall	**Wastewater Parameter**	**Sample Frequency**	**Sample Type**	**Monitoring Location**
001	ARSENIC, TOTAL (AS AS)	1 EVERY BATCH	GRAB	PRIOR TO DISCHARGE TO CITY SEWER
001	BIOCHEMICAL OXYGEN DEMAND (BOD5)	1 EVERY BATCH	GRAB	PRIOR TO DISCHARGE TO CITY SEWER
001	CADMIUM, TOTAL (AS CD)	1 EVERY BATCH	GRAB	PRIOR TO DISCHARGE TO CITY SEWER
001	CHROMIUM, HEXAVALENT, AS CR (CHROMIUM VI)	1 EVERY BATCH	GRAB	PRIOR TO DISCHARGE TO CITY SEWER
001	COPPER, TOTAL (AS CU)	1 EVERY BATCH	GRAB	PRIOR TO DISCHARGE TO CITY SEWER
001	CYANIDE, TOTAL (AS CN)	1 EVERY BATCH	GRAB	PRIOR TO DISCHARGE TO CITY SEWER
001	FLOW	1 EVERY BATCH	CALCULATED	PRIOR TO DISCHARGE TO CITY SEWER
001	LEAD, TOTAL (AS PB)	1 EVERY BATCH	GRAB	PRIOR TO DISCHARGE TO CITY SEWER
001	MERCURY, TOTAL (AS HG)	1 EVERY BATCH	GRAB	PRIOR TO DISCHARGE TO CITY SEWER
001	NICKEL, TOTAL (AS NI)	1 EVERY BATCH	GRAB	PRIOR TO DISCHARGE TO CITY SEWER
001	NITROGEN, TOTAL KJELDAHL (AS N)	1 EVERY BATCH	GRAB	PRIOR TO DISCHARGE TO CITY SEWER
001	PH	1 EVERY BATCH	GRAB	PRIOR TO DISCHARGE TO CITY SEWER
001	SANITARY LANDFILL LEACHATE	1 EVERY BATCH	GRAB	PRIOR TO DISCHARGE TO CITY SEWER
001	SELENIUM, TOTAL (AS SE)	1 EVERY BATCH	GRAB	PRIOR TO DISCHARGE TO CITY SEWER
001	SILVER, TOTAL (AS AG)	1 EVERY BATCH	GRAB	PRIOR TO DISCHARGE TO CITY SEWER
001	TOTAL SUSPENDED SOLIDS	1 EVERY BATCH	GRAB	PRIOR TO DISCHARGE TO CITY SEWER
001	ZINC, TOTAL (AS ZN)	1 EVERY BATCH	GRAB	PRIOR TO DISCHARGE TO CITY SEWER

CASS COUNTY SANITARY LANDFILL Special Monitoring Requirements

Outfall #	**Description**
001	**FLOW**
	Total volume of leachate discharged to City sewer.
	SANITARY LANDFILL LEACHATE
	PLEASE REFER TO PAGE 17 LISTING ADDITIONAL LEACHATE MONITORING REQUIREMENTS.

Facility Name: ATLANTIC CITY OF STP

Permit Number: 1509001

ADDITIONAL MONITORING REQUIREMENTS
CASS COUNTY SANITARY LANDFILL

The permittee shall analyze a representative sample of the landfill leachate discharge from Prairie Solid Waste Agency at least annually for each of the pollutants listed below. In addition, the permittee shall monitor the volume of waste discharged and other pollutant parameters listed on page 16 of this permit at the specified frequencies.

Pollutant
Biochemical Oxygen Demand (BOD5)
Total Suspended Solids
Ammonia Nitrogen (NH3-N)
Oil and Grease (O&G)
pH
Chloride (as Cl)
Sulfate (as SO4)
Arsenic, Total (as As)
Chromium, Total (as Cr)
Copper, Total (as Cu)
Iron, Total (as Fe)
Lead, Total (as Pb)
Nickel, Total (as Ni)
Selenium, Total (as Se)
Zinc, Total (as Zn)
Benzoic Acid
Chlorobenzene
Ethylbenzene
p-Cresol
Phenol
Toluene

The permittee will indicate completion of the annual leachate monitoring by entering a "1" in the "LEACHAT" column on the Discharge Monitoring Report (DMR) spreadsheet on the day that the samples are collected. Select the No Discharge Indicator "NOT REQUIRED/MP" on the DMR spreadsheet during the months that the monitoring is not required.

Results of annual monitoring shall be submitted to the addresses below:

NPDES.mail@dnr.iowa.gov	Iowa DNR Field Office 4
Subject: Landfill Leachate Scan (1509001)	1401 Sunnyside Lane
	Atlantic, IA 50022

Facility Name: ATLANTIC CITY OF STP
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Significant Industrial User Discharges:

Significant Industrial User: MAHLE ENGINE COMPONENTS USA, INC.

Outfall #	**Outfall Description**
001	PROCESS WASTEWATER DISCHARGE FROM THE PRETREATMENT FACILITIES PRIOR TO MIXING WITH ANY OTHER WASTESTREAMS
002	TREATED WASTEWATER FROM A GROUND WATER REMEDIATION SYSTEM

Significant Industrial User Effluent Limitations

You are prohibited from discharging pollutants except in compliance with the following effluent limitations:

MAHLE ENGINE COMPONENTS USA, INC.
Outfall: 001 Effective Dates: 11/01/2019 to 10/31/2024

Parameter	Season	Limit Type	Limit Values
FLOW			
	Yearly	30 Day Average	0.041 MGD
	Yearly	DAILY MAXIMUM	0.073 MGD
ZINC, TOTAL (AS ZN)			
	Yearly	30 Day Average	1.0628 MG/L 0.363 LBS/DAY
	Yearly	DAILY MAXIMUM	1.0628 MG/L 0.363 LBS/DAY
CADMIUM, TOTAL (AS CD)			
	Yearly	30 Day Average	0.0167 MG/L 0.0057 LBS/DAY
	Yearly	DAILY MAXIMUM	0.0213 MG/L 0.0073 LBS/DAY
CHLORIDE (AS CL)			
	Yearly	30 Day Average	3200 MG/L 1094.2 LBS/DAY
	Yearly	DAILY MAXIMUM	3200 MG/L 1094.2 LBS/DAY
CHLORINE, TOTAL RESIDUAL			
	Yearly	30 Day Average	1.428 MG/L 0.488 LBS/DAY
	Yearly	DAILY MAXIMUM	1.428 MG/L 0.488 LBS/DAY
CHROMIUM, HEXAVALENT, AS CR (CHROMIUM VI)			
	Yearly	30 Day Average	0.0789 MG/L 0.027 LBS/DAY
	Yearly	DAILY MAXIMUM	0.0789 MG/L 0.027 LBS/DAY

Facility Name: ATLANTIC CITY OF STP

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MAHLE ENGINE COMPONENTS USA, INC. ***Outfall: 001 Effective Dates: 11/01/2019 to 10/31/2024***			
Parameter	**Season**	**Limit Type**	**Limit Values**
CHROMIUM, TOTAL (AS CR)			
	Yearly	30 Day Average	1.51 MG/L 0.516 LBS/DAY
	Yearly	DAILY MAXIMUM	2.57 MG/L 0.879 LBS/DAY
CYANIDE, TOTAL (AS CN)			
	Yearly	30 Day Average	0.1085 MG/L 0.037 LBS/DAY
	Yearly	DAILY MAXIMUM	0.1085 MG/L 0.037 LBS/DAY
NICKEL, TOTAL (AS NI)			
	Yearly	30 Day Average	2.20 MG/L 0.753 LBS/DAY
	Yearly	DAILY MAXIMUM	3.98 MG/L 1.30 LBS/DAY
OIL AND GREASE			
	Yearly	30 Day Average	26 MG/L 9 LBS/DAY
	Yearly	DAILY MAXIMUM	52 MG/L 18 LBS/DAY
SILVER, TOTAL (AS AG)			
	Yearly	30 Day Average	0.01874 MG/L 0.006 LBS/DAY
	Yearly	DAILY MAXIMUM	0.01874 MG/L 0.006 LBS/DAY
TOTAL TOXIC ORGANICS			
	Yearly	DAILY MAXIMUM	2.13 MG/L 0.728 LBS/DAY
COPPER, TOTAL (AS CU)			
	Yearly	30 Day Average	0.122 MG/L 0.042 LBS/DAY
	Yearly	DAILY MAXIMUM	0.122 MG/L 0.042 LBS/DAY
LEAD, TOTAL (AS PB)			
	Yearly	30 Day Average	0.2835 MG/L 0.097 LBS/DAY
	Yearly	DAILY MAXIMUM	0.9735 MG/L 0.333 LBS/DAY
INDIUM			
	Yearly	DAILY MAXIMUM	4 MG/L
PH			
	Yearly	DAILY MAXIMUM	9.0 STD UNITS
	Yearly	DAILY MINIMUM	6.0 STD UNITS

Facility Name: ATLANTIC CITY OF STP

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MAHLE ENGINE COMPONENTS USA, INC.
Outfall: 001 Effective Dates: 11/01/2019 to 10/31/2024

Parameter	Season	Limit Type	Limit Values
CALCIUM DIMETHYLDITHIOCARBAMATE			
	Yearly	30 Day Average	13.38 MG/L 4.58 LBS/DAY
	Yearly	DAILY MAXIMUM	13.38 MG/L 4.58 LBS/DAY

MAHLE ENGINE COMPONENTS USA, INC.
Outfall: 001 Effective Dates: 11/01/2019 to 05/31/2022

Parameter	Season	Limit Type	Limit Values
TOTAL SUSPENDED SOLIDS			
	Yearly	30 Day Average	31 MG/L 11 LBS/DAY
	Yearly	DAILY MAXIMUM	60 MG/L 21 LBS/DAY

MAHLE ENGINE COMPONENTS USA, INC.
Outfall: 001 Effective Dates: 06/01/2022 to 10/31/2024

Parameter	Season	Limit Type	Limit Values
TOTAL SUSPENDED SOLIDS			
	Yearly	30 Day Average	59.0 MG/L 20 LBS/DAY
	Yearly	DAILY MAXIMUM	117 MG/L 40 LBS/DAY

MAHLE ENGINE COMPONENTS USA, INC.
Outfall: 002 Effective Dates: 11/01/2019 to 10/31/2024

Parameter	Season	Limit Type	Limit Values
TRICHLOROETHENE			
	Yearly	DAILY MAXIMUM	0.005 MG/L
TETRACHLOROETHENE			
	Yearly	DAILY MAXIMUM	0.005 MG/L
1,1,1-TRICHLOROETHANE			
	Yearly	DAILY MAXIMUM	0.005 MG/L

Monitoring and Reporting Requirements

(a) Samples and measurements taken shall be representative of the volume and nature of the monitored wastewater.

(b) Analytical and sampling methods specified in 40 CFR Part 136 or other methods approved in writing by the department shall be utilized. All effluent samples for which a limit applies must be analyzed using sufficiently sensitive methods (i.e. testing procedures) approved under 567 IAC Chapter 63 and 40 CFR Part 136 for the analysis of pollutants or pollutant parameters or as required under 40 CFR chapter I, subchapter N or O.

For the purposes of this paragraph, an approved method is sufficiently sensitive when:
(1) the method minimum level (ML) is at or below the level of the effluent limit established in the permit for the measured pollutant or pollutant parameter; or
(2) the method has the lowest ML of the approved analytical methods for the measured pollutant or pollutant parameter.

Samples collected for operational testing need not be analyzed by approved analytical methods; however, commonly accepted test methods should be used.

(c) You are required to report all data including calculated results needed to determine compliance with the limitations contained in this permit. The results of any monitoring not specified in this permit performed at the compliance monitoring point and analyzed according to 40 CFR Part 136 shall be included in the calculation and reporting of any data submitted in accordance with this permit. This includes daily maximums and minimums, 30-day averages and 7-day averages for all parameters that have concentration (mg/l) and mass (lbs/day) limits. In addition, flow data shall be reported in million gallons per day (MGD).

(d) Records of monitoring activities and results shall include for all samples: the date, exact place and time of the sampling; the dates the analyses were performed; who performed the analyses; the analytical techniques or methods used; and the results of such analyses.

(e) Results of all monitoring shall be recorded on forms provided by, or approved by, the department, and shall be submitted to the appropriate regional field office of the department by the fifteenth day following the close of the reporting period. Your reporting period is on a MONTHLY basis, ending on the last day of each reporting period.

(f) Operational performance monitoring for treatment unit process control shall be conducted to ensure that the facility is properly operated in accordance with its design. The results of any operational performance monitoring need not be reported to the department, but shall be maintained in accordance with rule 567 IAC 63.2 (455B). The results of any operational performance monitoring specified in this permit shall be submitted to the department in accordance with these reporting requirements.

(g) Chapter 63 of the rules provides you with further explanation of your monitoring requirements.

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MAHLE ENGINE COMPONENTS USA, INC.				
Outfall	**Wastewater Parameter**	**Sample Frequency**	**Sample Type**	**Monitoring Location**
001	CADMIUM, TOTAL (AS CD)	2 PER MONTH	24 HOUR COMPOSITE	EFFLUENT FROM PRETREATMENT PROCESS PRIOR TO DISCHARGE TO CITY SEWER
001	CALCIUM DIMETHYLDITHIOCARBAMATE	1 EVERY 3 MONTHS	GRAB	EFFLUENT FROM PRETREATMENT PROCESS PRIOR TO DISCHARGE TO CITY SEWER
001	CHLORIDE (AS CL)	1 EVERY MONTH	24 HOUR COMPOSITE	EFFLUENT FROM PRETREATMENT PROCESS PRIOR TO DISCHARGE TO CITY SEWER
001	CHLORINE, TOTAL RESIDUAL	1 EVERY 3 MONTHS	GRAB	EFFLUENT FROM PRETREATMENT PROCESS PRIOR TO DISCHARGE TO CITY SEWER
001	CHROMIUM, HEXAVALENT, AS CR (CHROMIUM VI)	1 EVERY 3 MONTHS	GRAB	EFFLUENT FROM PRETREATMENT PROCESS PRIOR TO DISCHARGE TO CITY SEWER
001	CHROMIUM, TOTAL (AS CR)	1 EVERY 3 MONTHS	24 HOUR COMPOSITE	EFFLUENT FROM PRETREATMENT PROCESS PRIOR TO DISCHARGE TO CITY SEWER
001	COPPER, TOTAL (AS CU)	2 PER MONTH	24 HOUR COMPOSITE	EFFLUENT FROM PRETREATMENT PROCESS PRIOR TO DISCHARGE TO CITY SEWER
001	CYANIDE, TOTAL (AS CN)	2 PER MONTH	GRAB	EFFLUENT FROM PRETREATMENT PROCESS PRIOR TO DISCHARGE TO CITY SEWER
001	FLOW	7/WEEK OR DAILY	24 HOUR TOTAL	EFFLUENT FROM PRETREATMENT PROCESS PRIOR TO DISCHARGE TO CITY SEWER
001	INDIUM	1 EVERY MONTH	24 HOUR COMPOSITE	EFFLUENT FROM PRETREATMENT PROCESS PRIOR TO DISCHARGE TO CITY SEWER
001	LEAD, TOTAL (AS PB)	1 EVERY MONTH	24 HOUR COMPOSITE	EFFLUENT FROM PRETREATMENT PROCESS PRIOR TO DISCHARGE TO CITY SEWER
001	NICKEL, TOTAL (AS NI)	1 EVERY 3 MONTHS	24 HOUR COMPOSITE	EFFLUENT FROM PRETREATMENT PROCESS PRIOR TO DISCHARGE TO CITY SEWER
001	OIL AND GREASE	1 EVERY 3 MONTHS	GRAB	EFFLUENT FROM PRETREATMENT PROCESS PRIOR TO DISCHARGE TO CITY SEWER
001	PH	2 TIMES PER WEEK	GRAB	EFFLUENT FROM PRETREATMENT PROCESS PRIOR TO DISCHARGE TO CITY SEWER
001	SILVER, TOTAL (AS AG)	2 PER MONTH	24 HOUR COMPOSITE	EFFLUENT FROM PRETREATMENT PROCESS PRIOR TO DISCHARGE TO CITY SEWER

Facility Name: ATLANTIC CITY OF STP

Permit Number: 1509001

MAHLE ENGINE COMPONENTS USA, INC.				
Outfall	**Wastewater Parameter**	**Sample Frequency**	**Sample Type**	**Monitoring Location**
001	TOTAL SUSPENDED SOLIDS	1 TIME PER WEEK	24 HOUR COMPOSITE	EFFLUENT FROM PRETREATMENT PROCESS PRIOR TO DISCHARGE TO CITY SEWER
001	TOTAL TOXIC ORGANICS	1 EVERY MONTH	24 HOUR COMPOSITE	EFFLUENT FROM PRETREATMENT PROCESS PRIOR TO DISCHARGE TO CITY SEWER
001	ZINC, TOTAL (AS ZN)	1 EVERY 3 MONTHS	24 HOUR COMPOSITE	EFFLUENT FROM PRETREATMENT PROCESS PRIOR TO DISCHARGE TO CITY SEWER
002	1,1,1-TRICHLOROETHANE	1 EVERY 3 MONTHS	GRAB	EFFLUENT FROM GROUND WATER REMEDIATION SYSTEM PRIOR TO DISCHARGE TO CITY SEWER
002	TETRACHLOROETHENE	1 EVERY 3 MONTHS	GRAB	EFFLUENT FROM GROUND WATER REMEDIATION SYSTEM PRIOR TO DISCHARGE TO CITY SEWER
002	TRICHLOROETHENE	1 EVERY 3 MONTHS	GRAB	EFFLUENT FROM GROUND WATER REMEDIATION SYSTEM PRIOR TO DISCHARGE TO CITY SEWER

MAHLE ENGINE COMPONENTS USA, INC. Special Monitoring Requirements

Outfall #	**Description**
001	TOTAL TOXIC ORGANICS In lieu of monitoring for Total Toxic Organics (TTO) the facility shall include the following certification statement with each monitoring report submitted to the City of Atlantic and this Department: “Based on my inquiry of the person or persons directly responsible for managing compliance with permit limits for TTO, I certify that to the best of my knowledge and belief, no dumping of concentrated toxic organics into the wastewater has occurred since the filing of the last report. I further certify that this facility is implementing the Toxic Organics Management Plan (TOMP) submitted to the Department.”

Facility Name: ATLANTIC CITY OF STP

Permit Number: 1509001

Outfall Number: 003

Ceriodaphnia and Pimephales Toxicity Effluent Testing

1. For facilities that have not been required to conduct toxicity testing by a previous NPDES permit, the initial annual toxicity test shall be conducted within three (3) months of permit issuance. For facilities that have been required to conduct toxicity testing by a previous NPDES permit, the initial annual toxicity test shall be conducted within twelve months (12) of the last toxicity test.

2. The test organisms that are to be used for acute toxicity testing shall be Ceriodaphnia dubia and Pimephales promelas. The acute toxicity testing procedures used to demonstrate compliance with permit limits shall be those listed in 40 CFR Part 136 and adopted by reference in rule 567 IAC 63.1(1). The method for measuring acute toxicity is specified in USEPA, October 2002, Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms, Fifth Edition. USEPA, Office of Water, Washington, D.C., EPA 821-R-02-012.

3. The diluted effluent sample must contain a minimum of 90.80 % effluent and no more than 9.20 % of culture water.

4. One valid positive toxicity result will require, at a minimum, quarterly testing for effluent toxicity until three successive tests are determined not to be positive.

5. Two successive valid positive toxicity results or three positive results out of five successive valid effluent toxicity tests will require a toxicity reduction evaluation to be completed to eliminate the toxicity.

6. A non-toxic test result shall be indicated as a "1" on the monthly operation report. A toxic test result shall be indicated as a "2" on the monthly operation report. DNR Form 542-1381 shall also be submitted to the DNR field office along with the monthly operation report.

Ceriodaphnia and Pimephales Toxicity Effluent Limits

The maximum limit of "1" for the parameters Acute Toxicity, Ceriodaphnia and Acute Toxicity, Pimephales means no positive toxicity results.

Definition: "Positive toxicity result" means a statistical difference of mortality rate between the control and the diluted effluent sample. For more information, see USEPA, October 2002, Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms, Fifth Edition, USEPA, Office of Water, Washington, D.C., EPA 821-R-02-012.

Design Capacity

Design: 2

The design capacity for the treatment works is specified in Construction Permit Number 2011-0105-S, issued October 21, 2010. The treatment plant is designed to treat:

* An average dry weather (ADW) flow of 0.980 Million Gallons Per Day (MGD).
* An average wet weather (AWW) flow of 2.65 Million Gallons Per Day (MGD).
* A maximum wet weather (MWW) flow of 8.10 Million Gallons Per Day (MGD).
* A design 5-day biochemical oxygen demand (BOD5) load of 2000.0 lbs/day.
* A design Total Kjeldahl Nitrogen (TKN) load of 352.0 lbs/day.
* A design Total Suspended Solids (TSS) load of 2600.0 lbs/day

Operator Certification Type/Grade: WW/III

Wastes in such volumes or quantities as to exceed the design capacity of the treatment works or reduce the effluent quality below that specified in the operation permit of the treatment works are considered to be a waste which interferes with the operation or performance of the treatment works and are prohibited by subrule IAC 567-62.1(7).

Facility Name: ATLANTIC CITY OF STP

Permit Number: 1509001

SEWAGE SLUDGE HANDLING AND DISPOSAL REQUIREMENTS

"Sewage sludge" is solid, semisolid, or liquid residue generated during the treatment of domestic sewage in a treatment works. Sewage sludge does not include the grit and screenings generated during preliminary treatment.

1. The permittee shall comply with all existing Federal and State laws and regulations that apply to the use and disposal of sewage sludge and with technical standards developed pursuant to Section 405(d) of the Clean Water Act when such standards are promulgated. If an applicable numerical limit or management practice for pollutants in sewage sludge is promulgated after issuance of this permit that is more stringent than a sludge pollutant limit or management practice specified in existing Federal or State laws or regulations, this permit shall be modified, or revoked and reissued, to conform to the regulations promulgated under Section 405(d) of the Clean Water Act. The permittee shall comply with the limitation no later than the compliance deadline specified in the applicable regulations.

2. The permittee shall provide written notice to the Department of Natural Resources prior to any planned changes in sludge disposal practices.

3. Land application of sewage sludge shall be conducted in accordance with criteria established in rule IAC 567 67.1 through 67.11 (455B).

SIGNIFICANT INDUSTRIAL USER LIMITATIONS, MONITORING AND REPORTING REQUIREMENTS

1. You must enforce the pollutant limits for each significant industrial user that are listed elsewhere in this permit. Violation of a treatment agreement limit is prohibited by subrule 567 IAC 62.1(6). Monitoring of each significant industrial user is required elsewhere in this permit.

2. Monitoring of each significant industrial user is required elsewhere in this permit. Results of the required monitoring shall be included on your discharge monitoring report, which must be submitted by the fifteenth of the following month.

3. You are required to notify the department, in writing, of any of the following:

   (a) 180 days prior to the introduction of pollutants to your facility from a significant industrial user. A significant industrial user means an industrial user of a treatment works that:
      (1) Discharges an average of 25,000 gallons per day or more of process wastewater excluding sanitary, noncontact cooling and boiler blowdown wastewater;
      (2) Contributes a process waste stream which makes up five percent or more of the average dry weather hydraulic or organic capacity of the publicly-owned treatment works:
      (3) Is subject to Categorical Pretreatment Standards under 40 CFR 403.6 and 40 CFR Chapter I, Subchapter N; or
      (4) Is designated by the department as a significant industrial user on the basis that the contributing industry, either singly or in combination with other contributing industries, has a reasonable potential for adversely affecting the operation of or effluent quality from the publicly-owned treatment works or for violating any pretreatment standards or requirements.

   (b) 60 days prior to a proposed expansion, production increase or process modification that may result in the discharge of a new pollutant or a discharge in excess of limitations stated in the existing treatment agreement.

   (c) 10 days prior to any commitment by you to accept waste from any new significant industrial user. Your written notification must include a new or revised treatment agreement in accordance with rule 64.3(5)(455B).

4. You shall require all users of your facility to comply with Sections 204(b), 307, and 308 of the Clean Water Act.

   (a) Section 204(b) requires that all users of the treatment works constructed with funds provided under Sections 201(g) or 601 of the Act to pay their proportionate share of the costs of operation, maintenance and replacement of the treatment works.

   (b) Section 307 of the Act requires users to comply with pretreatment standards promulgated by EPA for pollutants that would cause interference with the treatment process or would pass through the treatment works.

   (c) Section 308 of the Act requires users to allow access at reasonable times to state and EPA inspectors for the purpose of sampling the discharge and reviewing and copying records.

Nutrient Reduction Requirements

In support of the Iowa Nutrient Reduction Strategy you shall prepare and submit a report the feasibility and reasonableness of reducing the amounts of phosphorus discharged into surface water. The report shall be submitted no later than ***October 1, 2027*** and shall address the following:

- A description of the existing treatment facility with particular emphasis on its capabilities for removing phosphorus. The description shall include monitoring data that define the current amounts of total phosphorus in both the raw wastewater and the final effluent.

- A description and evaluation of operational changes to the existing treatment facility that could be implemented to reduce the amounts of total phosphorus discharged in the final effluent and the feasibility and reasonableness of each. Your evaluation must discuss the projected degree of total phosphorus reduction achievable for each operational change. When evaluating feasibility you must consider what, if any, effect operational changes would have on the removal of other pollutants (e.g. $CBOD_5$, TSS). When evaluating reasonableness you shall include estimates of the additional cost, if any, to implement such changes and for a publicly-owned treatment works the impact on user rates.

- A description and evaluation of new or additional treatment technologies that would achieve significant reductions in the amounts of total phosphorus discharged in the final effluent with a goal of achieving annual average concentrations of 1 mg/L total phosphorus for plants treating typical domestic strength sewage. For purposes of this evaluation typical domestic sewage is considered to contain approximately 4 - 8 mg/L total phosphorus. For plants treating wastewater with total phosphorus concentrations greater than typical domestic strength sewage, the evaluation shall include the projected reductions in the phosphorus effluent concentrations achievable with the application of feasible and reasonable treatment technology with a goal of achieving at least a 75% reduction in total phosphorus. For each treatment technology the report shall assess its feasibility, reasonableness, practicability, the availability of equipment, capital costs, annual operating costs, impact on user rates and any non-water quality environmental impacts (e.g. additional air pollution, increased sludge production, etc.).

- Based on the evaluations of operational changes and new or additional treatment technologies the report must select the preferred method(s) for reducing total phosphorus in the final effluent, the rationale for the selected method(s) and an estimate of the effluent quality achievable.

- The report must include a schedule for making operational changes and/or installing new or additional treatment technologies to achieve the concentration and/or percentage removal goals listed above. Additional financial justification must be included in the report if no operational changes or treatment technologies are feasible or reasonable.

The schedule will be incorporated into the NPDES permit by amendment. Effluent discharge limits will be based on one full year of operating data after implementation of the operational changes or completion of plant modifications and a six month optimization period.

The report shall be sent to the following address:

npdes.mail@dnr.iowa.gov
Subject: NRS Feasibility Study 1509001

STANDARD CONDITIONS

1. **ADMINISTRATIVE RULES -** Rules of the Iowa Department of Natural Resources (department) that govern the operation of a facility in connection with this permit are published in Part 567 of the Iowa Administrative Code (IAC) in Chapters 60-65, 67, and 121. Reference to the term "rule" in this permit means the designated provision of Part 567 of the IAC. Reference to the term "CFR" means the Code of Federal Regulations.

2. **LIMIT DEFINITIONS -**
   (a) 7 day average means the arithmetic mean (average) of pollutant parameter values for samples collected in a period of seven consecutive days. The first 7-day period shall begin with the first day of the month. ***{567 IAC 60.2}***
   (b) 30 day average means the arithmetic mean of pollutant parameter values for samples collected in a period of 30 consecutive days. ***{567 IAC 60.2}***
   (c) Daily maximum means the total discharge by mass, volume, or concentration during a twenty-four hour period. ***{567 IAC 60.2}***

3. **MONITORING AND RECORDS OF OPERATION -**
   (a) Electronic reporting. Records of operation required by this permit shall be electronically submitted to the department within 15 days following the close of the monthly reporting period, in accordance with the monitoring requirements incorporated in this permit, unless an approval for paper submittal of records of operation has been obtained in accordance with 567 IAC 63.7(2).
   (b) Maintenance of records. You shall retain for a minimum of three years all paper and electronic records of monitoring activities and results including all original strip chart recordings for continuous monitoring instrumentation and calibration and maintenance records. ***{567 IAC 63.2(3)}***
   (c) Any person who falsifies, tampers with, or knowingly renders inaccurate any monitoring device or method required to be maintained under this permit shall, upon conviction, be punished by a fine of not more than $10,000 or by imprisonment for not more than two years, or both. ***{40 CFR 122.41(j)(5)}***

4. **USE OF CERTIFIED LABORATORIES -** Analyses of wastewater, groundwater or sewage sludge that are required to be submitted as a result of this permit must be performed by a laboratory certified by the State of Iowa. Routine, on-site monitoring for pH, temperature, dissolved oxygen, total residual chlorine and other pollutants that must be analyzed immediately upon sample collection, physical measurements, and operational performance monitoring specified in 567 IAC 63.3(4) are excluded from this requirement. ***{567 IAC 63.1}***

5. **DUTY TO PROVIDE INFORMATION -** You must furnish to the director, within a reasonable time, any information the director may request to determine compliance with this permit or determine whether cause exists for amending, revoking and reissuing, or terminating this permit, in accordance with 567 IAC 64.3(11)"*c*". You must also furnish to the director, upon request, copies of any records required to be kept by this permit. If you become aware that you failed to submit any relevant facts in a permit application, or submitted incorrect information in a permit application, you must promptly submit such facts or information. If you become aware that you failed to submit any relevant facts in any report to the director, including records of operation, you shall promptly submit such facts or information. ***{567 IAC 60.4(2)"a", 567 IAC 63.7(6), 40 CFR 122.41(h)}***

6. **DUTY TO REAPPLY AND PERMIT CONTINUATION -** If you wish to continue to discharge after the expiration date of this permit, you must file a complete application for reissuance at least 180 days prior to the expiration date of this permit. If a timely and sufficient application is submitted, this permit will remain in effect until the department makes a final determination on the permit application. ***{567 IAC 64.8(1), Iowa Code 17A.18}***

7. **DUTY TO COMPLY -** You must comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the Clean Water Act and is grounds for enforcement action; permit termination, revocation and reissuance, or modification; or denial of a permit renewal application. Issuance of this permit does not relieve you of the responsibility to comply with all local, state and federal laws, ordinances, regulations or other legal requirements applying to the operation of your facility. ***{567 IAC 64.7(4)"e", 40 CFR 122.41(a)}***

8. **DUTY TO MITIGATE -** You shall take all reasonable steps to minimize or prevent any discharge in violation of this permit which has a reasonable likelihood of adversely affecting human health or the environment. ***{See 567 IAC 64.7(7)"i", 40 CFR 122.41(d)}***

9. **PROPER OPERATION AND MAINTENANCE -** All facilities and control systems shall be operated as efficiently as possible and maintained in good working order. A sufficient number of staff, adequately trained and knowledgeable in the operation of your facility, shall be retained at all times. Adequate laboratory controls and appropriate quality assurance procedures shall be provided to maintain compliance with the conditions of this permit. ***{567 IAC 64.7(7)"f", 40 CFR 122.41(e)}***

10. **SIGNATORY REQUIREMENTS -** Applications, discharge monitoring reports, or other information submitted to the department in connection with this permit must be signed and certified in accordance with 567 IAC 64.3(8).

11. **TRANSFER OF TITLE OR OWNER ADDRESS CHANGE -** If title to your facility, or any part of it, is transferred, the new owner shall be subject to this permit. You are required to notify the new owner of the requirements of this permit in writing prior to any transfer of title. The department shall be notified in writing within 30 days of the occurrence. No transfer of the authorization to discharge from the facility represented by the permit shall take place prior to notifying the department of the transfer of title. Whenever the address of the owner is changed, the department shall be notified in writing within 30 days of the address change. ***{567 IAC 64.14}***

STANDARD CONDITIONS

12. **PERMIT MODIFICATION, SUSPENSION OR REVOCATION -** This permit may be amended, revoked and reissued, or terminated in whole or in part for cause including, but not limited to, those specified in 567 IAC 64.3(11)*"b"*. This permit may be modified due to conditions or information on which this permit is based, including any new standard the department may adopt that would change the required effluent limits. If a toxic pollutant is present in your discharge and more stringent standards for toxic pollutants are established under Section 307(a) of the Clean Water Act, this permit will be modified in accordance with the new standards. The filing of a request for a permit amendment, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not stay any permit condition. ***{567 IAC 64.3(11) and 64.7(7)"g", 40 CFR 122.62(a)(6)}***

13. **TWENTY-FOUR HOUR REPORTING -** You shall report any noncompliance that may endanger human health or the environment, including, but not limited to, violations of maximum daily limits for any toxic pollutant (listed as toxic under 307(a)(1) of the Clean Water Act) or hazardous substance (as designated in 40 CFR Part 116 pursuant to 311 of the Act). Information shall be provided orally to the appropriate regional field office of the department within 24 hours from the time you become aware of the circumstances. A written submission that includes a description of noncompliance and its cause; the period of noncompliance including exact dates and times, whether the noncompliance has been corrected or the anticipated time it is expected to continue; and the steps taken or planned to reduce, eliminate, and prevent a reoccurrence of the noncompliance must be provided to the appropriate field office within 5 days of the occurrence. ***{567 IAC 63.12}***

14. **OTHER NONCOMPLIANCE -** You shall report all instances of noncompliance not reported under Condition #13 at the time discharge monitoring reports are submitted. The report shall contain the information listed in Condition #13. You shall give advance notice to the appropriate regional field office of the department of any planned activity which may result in noncompliance with permit requirements. Notice is required only when previous notice has not been given to any other section of the department. ***{567 IAC 63.7(5) and 63.14}***

15. **INSPECTION OF PREMISES, RECORDS, EQUIPMENT, METHODS AND DISCHARGES -** You are required to permit authorized personnel to:
    (a) Enter upon the premises where a regulated facility or activity is located or conducted or where records are kept under conditions of this permit;
    (b) Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
    (c) Inspect, at reasonable times, any facilities, equipment, practices or operations regulated or required under this permit; and
    (d) Sample or monitor, at reasonable times, to assure compliance or as otherwise authorized by the Clean Water Act.
    {40 CFR 122.41(i)}

16. **NOTICE OF CHANGED CONDITIONS -** You are required to notify the director of any changes in existing conditions or information on which this permit is based, including, but not limited to, the following:
    (a) If your facility is a publicly owned treatment works (POTW) or otherwise accepts waste for treatment from an indirect discharger or industrial contributor, you must notify the director if there is any substantial change in the volume or character of pollutants being introduced to the POTW by an indirect discharger or industrial contributor. See 567 IAC 64.3(5) for further requirements. ***{40 CFR 122.42(b)}***
    (b) If your facility has a manufacturing, commercial, mining, or silviculture discharge, you must notify the director as soon as you know or have reason to believe that any activity has occurred or will occur which would result in the discharge of any toxic pollutant which is not limited in this permit. ***{See 40 CFR 122.42(a)}***
    (c) You must notify the director if you have begun or will begin to use or manufacture, as an intermediate or final product or byproduct, any toxic pollutant which was not reported in the permit application. ***{40 CFR 122.21(g)(9})***

17. **PLANNED CHANGES -** You shall give notice to the appropriate regional field office of the department 30 days prior to any planned physical alterations or additions to the permitted facility. Facility expansions, production increases, or process modifications which result in new or increased discharges of pollutants must be reported by submission of a new permit application. If any modification of, addition to, or construction of a disposal system is to be made, you must first obtain a written construction permit from this department. In addition, no construction activity that will result in disturbance of one acre or more shall be initiated without first obtaining coverage under NPDES General Permit No. 2.
    Notice is required only when:
    (a) Notice has not been given to any other section of the department:
    (b) The alteration or addition to a permitted facility may meet one of the criteria for determining whether a facility is a new source as defined in 567 IAC 60.2;
    (c) The alteration or addition results in a significant change in sludge use or disposal practices; or
    (d) The alteration or addition could significantly change the nature or increase the quantity of pollutants discharged. This notification applies to pollutants that are not subject to effluent limitations in the permit.
    {567 IAC 63.13, 567 IAC 64.2 and 64.7(7)"a"}

18. **FAILURE TO SUBMIT FEES -** This permit may be revoked, in whole or in part, if the appropriate permit fees are not submitted within thirty (30) days of the date of notification that such fees are due. ***{567 IAC 64.16(1)}***

STANDARD CONDITIONS

19. BYPASSES - "Bypass" means the diversion of waste streams from any portion of a treatment facility or collection system. A bypass does not include internal operational waste stream diversions that are part of the design of the treatment facility, maintenance diversions where redundancy is provided, diversions of wastewater from one point in a collection system to another point in a collection system, or wastewater backups into buildings that are caused in the building lateral or private sewer line.

(a) Prohibitions.

i. Bypasses from any portion of a treatment facility or from a sanitary sewer collection system designed to carry only sewage are prohibited.

ii. The department may not assess a civil penalty against a permittee for a bypass if the permittee has complied with all of the following:

(1) The bypass was unavoidable to prevent loss of life, personal injury, or severe property damage;

(2) There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate backup equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance; and

(3) The permittee submitted notices as required by paragraph (d) of this section.

(c) The Director may approve an anticipated bypass after considering its adverse effects if the Director determines that it will meet the three conditions listed above and a request for bypass has been submitted to the appropriate regional field office of the department at least ten days prior to the expect event, in accordance with 567 IAC 63.6(2).

(d) Bypasses shall be reported in accordance with 567 IAC 63.6.

{567 IAC 63.6}

20. UPSETS - "Upset" means an exceptional incident in which there is unintentional and temporary noncompliance with technology-based permit effluent limitations because of factors beyond the reasonable control of the permittee. An upset does not include noncompliance to the extent caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventive maintenance, or careless or improper operation.

(a) *Effect of an upset.* An upset constitutes an affirmative defense to the assessment of a civil penalty for noncompliance with technology-based permit effluent limitations if the requirements of paragraph (c) of this condition are met. No determination made during administrative review of claims that noncompliance was caused by upset, and before an action for noncompliance, is final administrative action subject to judicial review.

(b) *Conditions necessary for demonstration of an upset.* A permittee who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed operating logs or other relevant evidence, that;

i. An upset occurred and that the permittee can identify the cause(s) of the upset;

ii. The permitted facility was at the time being properly operated;

iii. The permittee submitted notice of the upset to the department in accordance with 567 IAC 63.6(3); and

iv. The permittee complied with any remedial measures required by the department in accordance with 567 IAC 63.6(6)"*b*".

(c) *Burden of Proof.* In any enforcement proceeding, the permittee seeking to establish the occurrence of an upset has the burden of proof.

{567 IAC 63.6}

21. NEED TO HALT OR REDUCE ACTIVITY - It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. ***{567 IAC 64.7(7)"j", 40 CFR 122.41(c)}***

22. PROPERTY RIGHTS - This permit does not convey any property rights of any sort or any exclusive privilege. ***{567 IAC 64.4(3)"b", 40 CFR 122.41(g)}***

23. EFFECT OF A PERMIT - Compliance with a permit during its term constitutes compliance, for purposes of enforcement, with Sections 301, 302, 306, 307, 318, 403 and 405(a)-(b) of the Clean Water Act, and equivalent limitations and standards set out in 567 IAC Chapters 61 and 62. ***{567 IAC 64.4(3)"a"}***

24. SEVERABILITY - The provisions of this permit are severable and if any provision or application of any provision to any circumstance is found to be invalid by this department or a court of law, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected by such finding.

Appendix H.2
Corning NPDES Permit with Cass County Landfill as Industrial User

AMENDMENT TO NPDES PERMIT

Iowa NPDES Permit Number:	0220001	Date of Permit Issuance:	August 1, 2022
EPA Number:	IA0027375	Date of Permit Expiration:	July 31, 2027
		Date of this Amendment:	December 1, 2022

Name and Mailing Address of Applicant:
City of Corning
601 6th St
Corning, IA 50841

Identity and Location of Facility:
Corning City of STP
101 Loomis Avenue
Corning, IA 50841

Section 3, T71N, R34W
Adams County

Pursuant to the authority of Iowa Code Section 455B.174, and of Rule 567-64.3, Iowa Administrative Code, the Director of the Iowa Department of Natural Resources has issued the above referenced permit. Pursuant to the same authority, the Director hereby amends said permit as set forth below:

The permit is being amended to change the the flow limits for POET Biorefining – Corning, a significant industrial user (SIU), in accordance with a treatment agreement (TA) accepted by the department on December 1, 2022.

For the Department of Natural Resources:

By Julie M Faas Digitally signed by Julie Faas Date: 2022.12.01 12:17:21 -06'00'

Julie Faas
NPDES Section
ENVIRONMENTAL SERVICES DIVISION

IOWA DEPARTMENT OF NATURAL RESOURCES
National Pollutant Discharge Elimination System (NPDES) Permit

OWNER NAME & ADDRESS

CITY OF CORNING
601 6TH ST
CORNING, IA 50841

FACILITY NAME & ADDRESS

CORNING CITY OF STP
101 LOOMIS AVENUE
CORNING, IA 50841

Section 3, T71N, R34W
Adams County

IOWA NPDES PERMIT NUMBER: 0220001
DATE OF ISSUANCE: 08/01/2022
DATE OF EXPIRATION: 07/31/2027

YOU ARE REQUIRED TO FILE FOR RENEWAL OF THIS PERMIT BY: 02/01/2027
EPA NUMBER: IA0027375

This permit is issued pursuant to the authority of section 402(b) of the Clean Water Act (33 U.S.C. 1342(b)), Iowa Code section 455B.174, and rule 567-64.3, Iowa Administrative Code. You are authorized to operate the disposal system and to discharge the pollutants specified in this permit in accordance with the effluent limitations, monitoring requirements and other terms set forth in this permit.

Pursuant to rule 561-7.4, Iowa Administrative Code, you may appeal any condition of this permit by filing a written notice of appeal and request for administrative hearing with the director of the department within 60 days of permit issuance.

Any existing, unexpired Iowa operation permit or Iowa NPDES permit previously issued by the department for the facility identified above is revoked by the issuance of this permit. This provision does not apply to any authorization to discharge under the terms and conditions of a general permit issued by the department or to any permit issued exclusively for the discharge of stormwater.

FOR THE DEPARTMENT OF NATURAL RESOURCES

By Karen Lodden Digitally signed by Karen Lodden
Date: 2022.07.22 06:07:14 -05'00'

Karen Lodden
NPDES Section, Environmental Services Division

Facility Name: CORNING CITY OF STP
Permit Number: 0220001

Outfall No.: 001 DISCHARGE FROM AN ACTIVATED SLUDGE (AEROMOD) WASTEWATER TREATMENT FACILITY

Receiving Stream: EAST NODAWAY RIVER

Route of Flow: EAST NODAWAY RIVER

Class A2 waters are secondary contact recreational use waters in which recreational or other uses may result in contact with the water that is either incidental or accidental. During the recreational use, the probability of ingesting appreciable quantities of water is minimal. Class A2 uses include fishing, commercial and recreational boating, any limited contact incidental to shoreline activities and activities in which users do not swim or float in the water body while on a boating activity.

Waters designated Class B(WW2) are those in which flow or other physical characteristics are capable of supporting a resident aquatic community that includes a variety of native nongame fish and invertebrate species. The flow and other physical characteristics limit the maintenance of warm water game fish populations. These waters generally consist of small perennially flowing streams.

Bypasses from any portion of a treatment facility or from a sanitary sewer collection system designed to carry only sewage are prohibited.

Facility Name: CORNING CITY OF STP
Permit Number: 0220001

Effluent Limitations:

You are prohibited from discharging pollutants except in compliance with the following effluent limitations:

001 DISCHARGE FROM AN ACTIVATED SLUDGE (AEROMOD) WASTEWATER TREATMENT FACILITY

Outfall: 001 Effective Dates: 08/01/2022 to 07/31/2027			
Parameter	**Season**	**Limit Type**	**Limits**
CBOD5			**85% Removal Required**
	Yearly	7 Day Average	40 MG/L 181 LBS/DAY
	Yearly	30 Day Average	25 MG/L 113 LBS/DAY
TOTAL SUSPENDED SOLIDS			**85% Removal Required**
	Yearly	7 Day Average	45 MG/L 204 LBS/DAY
	Yearly	30 Day Average	30 MG/L 136 LBS/DAY
AMMONIA NITROGEN (N)			
	JAN	30 Day Average	8.4 MG/L 32.2 LBS/DAY
	JAN	Daily Maximum	15.6 MG/L 70.0 LBS/DAY
	FEB	30 Day Average	9.7 MG/L 37.1 LBS/DAY
	FEB	Daily Maximum	14.6 MG/L 65.7 LBS/DAY
	MAR	30 Day Average	8.3 MG/L 31.7 LBS/DAY
	MAR	Daily Maximum	15.1 MG/L 67.7 LBS/DAY
	APR	30 Day Average	3.7 MG/L 14.3 LBS/DAY
	APR	Daily Maximum	16.0 MG/L 72.2 LBS/DAY
	MAY	30 Day Average	3.8 MG/L 15.0 LBS/DAY
	MAY	Daily Maximum	15.5 MG/L 69.9 LBS/DAY
	JUN	30 Day Average	2.6 MG/L 10.3 LBS/DAY
	JUN	Daily Maximum	14.8 MG/L 56.6 LBS/DAY
	JUL	30 Day Average	2.5 MG/L 9.4 LBS/DAY
	JUL	Daily Maximum	12.4 MG/L 43.5 LBS/DAY
	AUG	30 Day Average	2.3 MG/L 9.0 LBS/DAY
	AUG	Daily Maximum	12.9 MG/L 45.3 LBS/DAY
	SEP	30 Day Average	2.6 MG/L 9.9 LBS/DAY
	SEP	Daily Maximum	14.8 MG/L 52.1 LBS/DAY

Facility Name: CORNING CITY OF STP

Permit Number: 0220001

Outfall: 001 Effective Dates: 08/01/2022 to 07/31/2027			
Parameter	**Season**	**Limit Type**	**Limits**
AMMONIA NITROGEN (N)			
	OCT	30 Day Average	3.8 MG/L 14.7 LBS/DAY
	OCT	Daily Maximum	16.0 MG/L 72.2 LBS/DAY
	NOV	30 Day Average	5.7 MG/L 21.9 LBS/DAY
	NOV	Daily Maximum	15.0 MG/L 67.5 LBS/DAY
	DEC	30 Day Average	6.1 MG/L 23.3 LBS/DAY
	DEC	Daily Maximum	16.3 MG/L 73.4 LBS/DAY
DISSOLVED OXYGEN			
	Yearly	Daily Minimum	4.2 MG/L
PH			
	Yearly	Daily Maximum	9.0 STD UNITS
	Yearly	Daily Minimum	6.5 STD UNITS
E. COLI			
	MAR	Geometric Mean	630 #/100 ML
	APR	Geometric Mean	630 #/100 ML
	MAY	Geometric Mean	630 #/100 ML
	JUN	Geometric Mean	630 #/100 ML
	JUL	Geometric Mean	630 #/100 ML
	AUG	Geometric Mean	630 #/100 ML
	SEP	Geometric Mean	630 #/100 ML
	OCT	Geometric Mean	630 #/100 ML
	NOV	Geometric Mean	630 #/100 ML

Facility Name: CORNING CITY OF STP
Permit Number: 0220001

Monitoring and Reporting Requirements

(a) Samples and measurements taken shall be representative of the volume and nature of the monitored wastewater.

(b) Analytical and sampling methods specified in 40 CFR Part 136 or other methods approved in writing by the department shall be utilized. All effluent samples for which a limit applies must be analyzed using sufficiently sensitive methods (i.e. testing procedures) approved under 567 IAC Chapter 63 and 40 CFR Part 136 for the analysis of pollutants or pollutant parameters or as required under 40 CFR chapter I, subchapter N or O.

For the purposes of this paragraph, an approved method is sufficiently sensitive when:
(1) the method minimum level (ML) is at or below the level of the effluent limit established in the permit for the measured pollutant or pollutant parameter; or
(2) the method has the lowest ML of the approved analytical methods for the measured pollutant or pollutant parameter.

Samples collected for operational testing need not be analyzed by approved analytical methods; however, commonly accepted test methods should be used.

(c) You are required to report all data including calculated results needed to determine compliance with the limitations contained in this permit. The results of any monitoring not specified in this permit performed at the compliance monitoring point and analyzed according to 40 CFR Part 136 shall be included in the calculation and reporting of any data submitted in accordance with this permit. This includes daily maximums and minimums, 30-day averages and 7-day averages for all parameters that have concentration (mg/l) and mass (lbs/day) limits. In addition, flow data shall be reported in million gallons per day (MGD).

(d) Records of monitoring activities and results shall include for all samples: the date, exact place and time of the sampling; the dates the analyses were performed; who performed the analyses; the analytical techniques or methods used; and the results of such analyses.

(e) Results of all monitoring shall be recorded on forms provided by, or approved by, the department, and shall be submitted to the appropriate regional field office of the department by the fifteenth day following the close of the reporting period. Your reporting period is on a MONTHLY basis, ending on the last day of each reporting period.

(f) Operational performance monitoring for treatment unit process control shall be conducted to ensure that the facility is properly operated in accordance with its design. The results of any operational performance monitoring need not be reported to the department, but shall be maintained in accordance with rule 567 IAC 63.2 (455B). The results of any operational performance monitoring specified in this permit shall be submitted to the department in accordance with these reporting requirements.

(g) Chapter 63 of the rules provides you with further explanation of your monitoring requirements.

Facility Name: CORNING CITY OF STP
Permit Number: 0220001

Outfall	Wastewater Parameter	Sample Frequency	Sample Type	Monitoring Location
The following monitoring requirements shall be in effect from 08/01/2022 to 07/31/2027				
001	BIOCHEMICAL OXYGEN DEMAND (BOD5)	2 TIMES PER WEEK	24 HOUR COMPOSITE	RAW WASTE
001	FLOW	7/WEEK OR DAILY	24 HOUR TOTAL	RAW WASTE
001	NITROGEN, TOTAL KJELDAHL (AS N)	1 EVERY MONTH	24 HOUR COMPOSITE	RAW WASTE
001	PH	2 TIMES PER WEEK	GRAB	RAW WASTE
001	TEMPERATURE	2 TIMES PER WEEK	GRAB	RAW WASTE
001	TOTAL SUSPENDED SOLIDS	1 TIME PER WEEK	24 HOUR COMPOSITE	RAW WASTE
001	FLOW	7/WEEK OR DAILY	24 HOUR TOTAL	FINAL EFFLUENT
001	AMMONIA NITROGEN (N)	2 TIMES PER WEEK	24 HOUR COMPOSITE	EFFLUENT AFTER DISINFECTION
001	CBOD5	2 TIMES PER WEEK	24 HOUR COMPOSITE	EFFLUENT AFTER DISINFECTION
001	DISSOLVED OXYGEN	2 TIMES PER WEEK	GRAB	EFFLUENT AFTER DISINFECTION
001	E. COLI	GEO. MEAN 1/3 MONTHS	GRAB	EFFLUENT AFTER DISINFECTION
001	NITROGEN, TOTAL (AS N)	1 EVERY 3 MONTHS	24 HOUR COMPOSITE	EFFLUENT AFTER DISINFECTION
001	PH	2 TIMES PER WEEK	GRAB	EFFLUENT AFTER DISINFECTION
001	PHOSPHORUS, TOTAL (AS P)	1 EVERY 3 MONTHS	24 HOUR COMPOSITE	EFFLUENT AFTER DISINFECTION
001	TEMPERATURE	2 TIMES PER WEEK	GRAB	EFFLUENT AFTER DISINFECTION
001	TOTAL SUSPENDED SOLIDS	1 TIME PER WEEK	24 HOUR COMPOSITE	EFFLUENT AFTER DISINFECTION

Facility Name: CORNING CITY OF STP

Permit Number: 0220001

Special Monitoring Requirements

Outfall # **Description**

001 **LANDFILL LEACHATE**

Leachate not to exceed 0.0636 MGD or 63,600 gallons per day.

RAW WASTE FLOW

The raw waste flow sample shall be measured at the flow meter prior to the flow equalization basin. The raw waste flow measurement shall be used when calculating raw waste/influent mass data as this flow meter measures the actual volume of flow the plant receives on a daily basis.

FINAL EFFLUENT FLOW

The final effluent flow shall be calculated by subtracting the flow measured by the magnetic flow meter at lift station #3 (flow to the storage lagoon) from the flow measured at the Parshall flume flow meter after the flow equalization basin. The final effluent flow result shall be used when calculating effluent mass data as this flow is the volume being discharged to the East Nodaway River.

NITROGEN, TOTAL (AS N)

Total nitrogen shall be determined by testing for Total Kjeldahl Nitrogen (TKN) and nitrate + nitrite nitrogen and reporting the sum of the TKN and nitrate + nitrite results (reported as N). Nitrate + nitrite can be analyzed together or separately.

E. COLI

The limit for E. coli specified on the limit page(s) of this permit is a geometric mean. The disinfection season is established in the Iowa Administrative Code, Subparagraph 567 IAC 61.3(3)"a"(1), and is in effect from March 15 to November 15. Any disinfection system (chlorine, UV light, etc.) shall be operated to comply with the limit during the entire disinfection season whenever wastewater is being discharged.

The facility must collect and analyze a minimum of five samples in one calendar month during each 3-month period from March 15 to November 15. The 3-month periods are March – May, June – August, and September – November. The collection of five samples in each 3-month period will result in a minimum of 15 samples being collected during a calendar year. For example, for the first 3-month period, the operator may choose April as the calendar month to collect the 5 individual E. coli samples to determine compliance with the limits. The operator may also choose the months of March or May as well, as long as each of the 5 samples is collected during a single calendar month. The same principle applies to the other two 3-month periods during the disinfection season. The following requirements apply to the individual samples collected in one calendar month:
Samples must be spaced over one calendar month.
No more than one sample can be collected on any one day.
There must be a minimum of two days between each sample.
No more than two samples may be collected in a period of seven consecutive days.

If the effluent has been disinfected using chlorine, ultraviolet light (UV), or any other process intended to disrupt the biological integrity of the E. coli, the samples shall be analyzed using the Most Probable Number method found in Standard Method 9223B (Colilert® or Colilert-18® made by IDEXX Laboratories, Inc.). If the effluent has not been disinfected the samples may be analyzed using either the MPN method above or EPA Method 1603: Escherichia coli (E. coli) in water by membrane filtration using modified membrane-thermotolerant E. coli agar

Special Monitoring Requirements, continued

(modified mTEC) or mColiBlue-24® made by the Hach Company.

The geometric mean must be calculated using all valid sample results collected during a month. The geometric mean formula is as follows: Geometric Mean = (Sample one * Sample two * Sample three * Sample four *Sample five…Sample N)^(1/N), which is the Nth root of the result of the multiplication of all of the sample results where N = the number of samples. If a sample result is a less than value, the value reported by the lab without the less than sign should be used in the geometric mean calculation.

The geometric mean can be calculated in one of the following ways:
Use a scientific calculator that can calculate the powers of numbers.
Enter the samples in Microsoft Excel and use the function “GEOMEAN” to perform the calculation.
Use the geometric mean calculator on the Iowa DNR webpage at: http://www.iowadnr.gov/Environmental-Protection/Water-Quality/NPDES-Wastewater-Permitting/NPDES-Operator-Information/Bacteria-Sampling

Facility Name: CORNING CITY OF STP
Permit Number: 0220001

Significant Industrial User Discharges:

Significant Industrial User: PRAIRIE SOLID WASTE AGENCY

Outfall #	**Outfall Description**
001	LANDFILL LEACHATE TRUCKED TO CITY WASTEWATER TREATMENT PLANT

Significant Industrial User Effluent Limitations

You are prohibited from discharging pollutants except in compliance with the following effluent limitations:

PRAIRIE SOLID WASTE AGENCY
Outfall: 001 Effective Dates: 08/01/2022 to 07/31/2027

Parameter	Season	Limit Type	Limit Values
FLOW			
	Yearly	30 Day Average	0.0578 MGD
	Yearly	DAILY MAXIMUM	0.0636 MGD
BIOCHEMICAL OXYGEN DEMAND (BOD5)			
	Yearly	30 Day Average	25.0 LBS/DAY
	Yearly	DAILY MAXIMUM	55.0 LBS/DAY
TOTAL SUSPENDED SOLIDS			
	Yearly	30 Day Average	23.5 LBS/DAY
	Yearly	DAILY MAXIMUM	62.0 LBS/DAY
AMMONIA NITROGEN (N)			
	Yearly	30 Day Average	37.5 LBS/DAY
	Yearly	DAILY MAXIMUM	62.0 LBS/DAY
OIL AND GREASE			
	Yearly	30 Day Average	40.5 MG/L
	Yearly	DAILY MAXIMUM	52.0 MG/L
PH			
	Yearly	DAILY MAXIMUM	9.0 STD UNITS
	Yearly	DAILY MINIMUM	6.0 STD UNITS

Monitoring and Reporting Requirements

(a) Samples and measurements taken shall be representative of the volume and nature of the monitored wastewater.

(b) Analytical and sampling methods specified in 40 CFR Part 136 or other methods approved in writing by the department shall be utilized. All effluent samples for which a limit applies must be analyzed using sufficiently sensitive methods (i.e. testing procedures) approved under 567 IAC Chapter 63 and 40 CFR Part 136 for the analysis of pollutants or pollutant parameters or as required under 40 CFR chapter I, subchapter N or O.

For the purposes of this paragraph, an approved method is sufficiently sensitive when:
(1) the method minimum level (ML) is at or below the level of the effluent limit established in the permit for the measured pollutant or pollutant parameter; or
(2) the method has the lowest ML of the approved analytical methods for the measured pollutant or pollutant parameter.

Samples collected for operational testing need not be analyzed by approved analytical methods; however, commonly accepted test methods should be used.

(c) You are required to report all data including calculated results needed to determine compliance with the limitations contained in this permit. The results of any monitoring not specified in this permit performed at the compliance monitoring point and analyzed according to 40 CFR Part 136 shall be included in the calculation and reporting of any data submitted in accordance with this permit. This includes daily maximums and minimums, 30-day averages and 7-day averages for all parameters that have concentration (mg/l) and mass (lbs/day) limits. In addition, flow data shall be reported in million gallons per day (MGD).

(d) Records of monitoring activities and results shall include for all samples: the date, exact place and time of the sampling; the dates the analyses were performed; who performed the analyses; the analytical techniques or methods used; and the results of such analyses.

(e) Results of all monitoring shall be recorded on forms provided by, or approved by, the department, and shall be submitted to the appropriate regional field office of the department by the fifteenth day following the close of the reporting period. Your reporting period is on a MONTHLY basis, ending on the last day of each reporting period.

(f) Operational performance monitoring for treatment unit process control shall be conducted to ensure that the facility is properly operated in accordance with its design. The results of any operational performance monitoring need not be reported to the department, but shall be maintained in accordance with rule 567 IAC 63.2 (455B). The results of any operational performance monitoring specified in this permit shall be submitted to the department in accordance with these reporting requirements.

(g) Chapter 63 of the rules provides you with further explanation of your monitoring requirements.

Facility Name: CORNING CITY OF STP

Permit Number: 0220001

PRAIRIE SOLID WASTE AGENCY				
Outfall	**Wastewater Parameter**	**Sample Frequency**	**Sample Type**	**Monitoring Location**
001	AMMONIA NITROGEN (N)	1/WEEK DURING DRAWDOWN	GRAB	PRIOR TO DISCHARGE TO CITY SEWER
001	BIOCHEMICAL OXYGEN DEMAND (BOD5)	1/WEEK DURING DRAWDOWN	GRAB	PRIOR TO DISCHARGE TO CITY SEWER
001	FLOW	DAILY DURING DRAWDOWN	24 HOUR TOTAL	PRIOR TO DISCHARGE TO CITY SEWER
001	OIL AND GREASE	1/WEEK DURING DRAWDOWN	GRAB	PRIOR TO DISCHARGE TO CITY SEWER
001	PH	1/WEEK DURING DRAWDOWN	GRAB	PRIOR TO DISCHARGE TO CITY SEWER
001	SANITARY LANDFILL LEACHATE	1 EVERY 12 MONTHS	GRAB	PRIOR TO DISCHARGE TO CITY SEWER
001	TOTAL SUSPENDED SOLIDS	1/WEEK DURING DRAWDOWN	GRAB	PRIOR TO DISCHARGE TO CITY SEWER

ADDITIONAL MONITORING REQUIREMENTS

PRAIRIE SOLID WASTE AGENCY

The permittee shall analyze a representative sample of the landfill leachate discharge from Prairie Solid Waste Agency at least annually for each of the pollutants listed below. In addition, the permittee shall monitor the volume of waste discharged and pH, BOD5, TSS, Ammonia Nitrogen, Oil and Grease at the frequencies specified on page 11 of this permit.

Pollutant

TKN
Chloride (as Cl)
Sulfate (as SO4)
Arsenic, Total (as As)
Chromium, Total (as Cr)
Copper, Total (as Cu)
Iron, Total (as Fe)
Lead, Total (as Pb)
Nickel, Total (as Ni)
Selenium, Total (as Se)
Zinc, Total (as Zn)
Benzoic Acid
Chlorobenzene
Ethylbenzene
p-Cresol
Phenol
Toluene

The permittee will indicate completion of the annual leachate monitoring by entering a "1" in the "LEACHAT" column on the Discharge Monitoring Report (DMR) spreadsheet on the day that the samples are collected. Select the No Discharge Indicator "NOT REQUIRED/MP" on the DMR spreadsheet during the months that the monitoring is not required.

Results of annual monitoring shall be submitted to the addresses below:

NPDES.mail@dnr.iowa.gov	Iowa DNR Field Office 4
Subject: Landfill Leachate Scan (0220001)	1401 Sunnyside Ln.
	Atlantic, IA 50022

Facility Name: CORNING CITY OF STP
Permit Number: 0220001

Significant Industrial User Discharges:

Significant Industrial User: CASS COUNTY ENVIRONMENTAL CONTROL AGENCY

Outfall #	**Outfall Description**
001	LANDFILL LEACHATE TRUCKED TO CITY WASTEWATER TREATMENT PLANT

Significant Industrial User Effluent Limitations

You are prohibited from discharging pollutants except in compliance with the following effluent limitations:

CASS COUNTY ENVIRONMENTAL CONTROL AGENCY
Outfall: 001 Effective Dates: 08/01/2022 to 07/31/2027

Parameter	Season	Limit Type	Limit Values
FLOW			
	Yearly	30 Day Average	0.0578 MGD
	Yearly	DAILY MAXIMUM	0.0636 MGD
BIOCHEMICAL OXYGEN DEMAND (BOD5)			
	Yearly	30 Day Average	25.0 LBS/DAY
	Yearly	DAILY MAXIMUM	55.0 LBS/DAY
TOTAL SUSPENDED SOLIDS			
	Yearly	30 Day Average	23.5 LBS/DAY
	Yearly	DAILY MAXIMUM	62.0 LBS/DAY
AMMONIA NITROGEN (N)			
	Yearly	30 Day Average	37.5 LBS/DAY
	Yearly	DAILY MAXIMUM	62.0 LBS/DAY
OIL AND GREASE			
	Yearly	30 Day Average	40.5 MG/L
	Yearly	DAILY MAXIMUM	52.0 MG/L
PH			
	Yearly	DAILY MAXIMUM	9.0 STD UNITS
	Yearly	DAILY MINIMUM	6.0 STD UNITS

Monitoring and Reporting Requirements

(a) Samples and measurements taken shall be representative of the volume and nature of the monitored wastewater.

(b) Analytical and sampling methods specified in 40 CFR Part 136 or other methods approved in writing by the department shall be utilized. All effluent samples for which a limit applies must be analyzed using sufficiently sensitive methods (i.e. testing procedures) approved under 567 IAC Chapter 63 and 40 CFR Part 136 for the analysis of pollutants or pollutant parameters or as required under 40 CFR chapter I, subchapter N or O.

For the purposes of this paragraph, an approved method is sufficiently sensitive when:
(1) the method minimum level (ML) is at or below the level of the effluent limit established in the permit for the measured pollutant or pollutant parameter; or
(2) the method has the lowest ML of the approved analytical methods for the measured pollutant or pollutant parameter.

Samples collected for operational testing need not be analyzed by approved analytical methods; however, commonly accepted test methods should be used.

(c) You are required to report all data including calculated results needed to determine compliance with the limitations contained in this permit. The results of any monitoring not specified in this permit performed at the compliance monitoring point and analyzed according to 40 CFR Part 136 shall be included in the calculation and reporting of any data submitted in accordance with this permit. This includes daily maximums and minimums, 30-day averages and 7-day averages for all parameters that have concentration (mg/l) and mass (lbs/day) limits. In addition, flow data shall be reported in million gallons per day (MGD).

(d) Records of monitoring activities and results shall include for all samples: the date, exact place and time of the sampling; the dates the analyses were performed; who performed the analyses; the analytical techniques or methods used; and the results of such analyses.

(e) Results of all monitoring shall be recorded on forms provided by, or approved by, the department, and shall be submitted to the appropriate regional field office of the department by the fifteenth day following the close of the reporting period. Your reporting period is on a MONTHLY basis, ending on the last day of each reporting period.

(f) Operational performance monitoring for treatment unit process control shall be conducted to ensure that the facility is properly operated in accordance with its design. The results of any operational performance monitoring need not be reported to the department, but shall be maintained in accordance with rule 567 IAC 63.2 (455B). The results of any operational performance monitoring specified in this permit shall be submitted to the department in accordance with these reporting requirements.

(g) Chapter 63 of the rules provides you with further explanation of your monitoring requirements.

Facility Name: CORNING CITY OF STP
Permit Number: 0220001

CASS COUNTY ENVIRONMENTAL CONTROL AGENCY				
Outfall	**Wastewater Parameter**	**Sample Frequency**	**Sample Type**	**Monitoring Location**
001	AMMONIA NITROGEN (N)	1/WEEK DURING DRAWDOWN	GRAB	PRIOR TO DISCHARGE TO CITY SEWER
001	BIOCHEMICAL OXYGEN DEMAND (BOD5)	1/WEEK DURING DRAWDOWN	GRAB	PRIOR TO DISCHARGE TO CITY SEWER
001	FLOW	DAILY DURING DRAWDOWN	24 HOUR TOTAL	PRIOR TO DISCHARGE TO CITY SEWER
001	OIL AND GREASE	1/WEEK DURING DRAWDOWN	GRAB	PRIOR TO DISCHARGE TO CITY SEWER
001	PH	1/WEEK DURING DRAWDOWN	GRAB	PRIOR TO DISCHARGE TO CITY SEWER
001	SANITARY LANDFILL LEACHATE	1 EVERY 12 MONTHS	GRAB	PRIOR TO DISCHARGE TO CITY SEWER
001	TOTAL SUSPENDED SOLIDS	1/WEEK DURING DRAWDOWN	GRAB	PRIOR TO DISCHARGE TO CITY SEWER

ADDITIONAL MONITORING REQUIREMENTS

CASS COUNTY ENVIRONMENTAL CONTROL AGENCY

The permittee shall analyze a representative sample of the landfill leachate discharge from Cass County Environmental Control Agency at least annually for each of the pollutants listed below. In addition, the permittee shall monitor the volume of waste discharged and pH, BOD5, TSS, Ammonia Nitrogen, Oil and Grease at the frequencies specified on page 15 of this permit.

Pollutant

TKN
Chloride (as Cl)
Sulfate (as SO4)
Arsenic, Total (as As)
Chromium, Total (as Cr)
Copper, Total (as Cu)
Iron, Total (as Fe)
Lead, Total (as Pb)
Nickel, Total (as Ni)
Selenium, Total (as Se)
Zinc, Total (as Zn)
Benzoic Acid
Chlorobenzene
Ethylbenzene
p-Cresol
Phenol
Toluene

The permittee will indicate completion of the annual leachate monitoring by entering a "1" in the "LEACHAT" column on the Discharge Monitoring Report (DMR) spreadsheet on the day that the samples are collected. Select the No Discharge Indicator "NOT REQUIRED/MP" on the DMR spreadsheet during the months that the monitoring is not required.

Results of annual monitoring shall be submitted to the addresses below:

NPDES.mail@dnr.iowa.gov	Iowa DNR Field Office 4
Subject: Landfill Leachate Scan (0220001)	1401 Sunnyside Ln.
	Atlantic, IA 50022

Facility Name: CORNING CITY OF STP
Permit Number: 0220001

Significant Industrial User Discharges:

Significant Industrial User: WAYNE-RINGGOLD-DECATUR CO SOLID WASTE MANAGEMENT

Outfall #	**Outfall Description**
001	LANDFILL LEACHATE TRUCKED TO CITY WASTEWATER TREATMENT PLANT

Significant Industrial User Effluent Limitations

You are prohibited from discharging pollutants except in compliance with the following effluent limitations:

WAYNE-RINGGOLD-DECATUR CO SOLID WASTE MANAGEMENT
Outfall: 001 Effective Dates: 08/01/2022 to 07/31/2027

Parameter	Season	Limit Type	Limit Values
FLOW			
	Yearly	30 Day Average	0.0578 MGD
	Yearly	DAILY MAXIMUM	0.0636 MGD
BIOCHEMICAL OXYGEN DEMAND (BOD5)			
	Yearly	30 Day Average	65.0 LBS/DAY
	Yearly	DAILY MAXIMUM	200.0 LBS/DAY
TOTAL SUSPENDED SOLIDS			
	Yearly	30 Day Average	30.0 LBS/DAY
	Yearly	DAILY MAXIMUM	85.0 LBS/DAY
AMMONIA NITROGEN (N)			
	Yearly	30 Day Average	25.0 LBS/DAY
	Yearly	DAILY MAXIMUM	80.0 LBS/DAY
NITROGEN, TOTAL KJELDAHL (AS N)			
	Yearly	30 Day Average	15.0 LBS/DAY
	Yearly	DAILY MAXIMUM	85.0 LBS/DAY
OIL AND GREASE			
	Yearly	30 Day Average	40.0 MG/L
	Yearly	DAILY MAXIMUM	55.0 MG/L
PH			
	Yearly	DAILY MAXIMUM	10.0 STD UNITS

Facility Name: CORNING CITY OF STP

Permit Number: 0220001

WAYNE-RINGGOLD-DECATUR CO SOLID WASTE MANAGEMENT ***Outfall: 001 Effective Dates: 08/01/2022 to 07/31/2027***			
Parameter	**Season**	**Limit Type**	**Limit Values**
PH			
	Yearly	DAILY MINIMUM	6.0 STD UNITS

Monitoring and Reporting Requirements

(a) Samples and measurements taken shall be representative of the volume and nature of the monitored wastewater.

(b) Analytical and sampling methods specified in 40 CFR Part 136 or other methods approved in writing by the department shall be utilized. All effluent samples for which a limit applies must be analyzed using sufficiently sensitive methods (i.e. testing procedures) approved under 567 IAC Chapter 63 and 40 CFR Part 136 for the analysis of pollutants or pollutant parameters or as required under 40 CFR chapter I, subchapter N or O.

For the purposes of this paragraph, an approved method is sufficiently sensitive when:
(1) the method minimum level (ML) is at or below the level of the effluent limit established in the permit for the measured pollutant or pollutant parameter; or
(2) the method has the lowest ML of the approved analytical methods for the measured pollutant or pollutant parameter.

Samples collected for operational testing need not be analyzed by approved analytical methods; however, commonly accepted test methods should be used.

(c) You are required to report all data including calculated results needed to determine compliance with the limitations contained in this permit. The results of any monitoring not specified in this permit performed at the compliance monitoring point and analyzed according to 40 CFR Part 136 shall be included in the calculation and reporting of any data submitted in accordance with this permit. This includes daily maximums and minimums, 30-day averages and 7-day averages for all parameters that have concentration (mg/l) and mass (lbs/day) limits. In addition, flow data shall be reported in million gallons per day (MGD).

(d) Records of monitoring activities and results shall include for all samples: the date, exact place and time of the sampling; the dates the analyses were performed; who performed the analyses; the analytical techniques or methods used; and the results of such analyses.

(e) Results of all monitoring shall be recorded on forms provided by, or approved by, the department, and shall be submitted to the appropriate regional field office of the department by the fifteenth day following the close of the reporting period. Your reporting period is on a MONTHLY basis, ending on the last day of each reporting period.

(f) Operational performance monitoring for treatment unit process control shall be conducted to ensure that the facility is properly operated in accordance with its design. The results of any operational performance monitoring need not be reported to the department, but shall be maintained in accordance with rule 567 IAC 63.2 (455B). The results of any operational performance monitoring specified in this permit shall be submitted to the department in accordance with these reporting requirements.

(g) Chapter 63 of the rules provides you with further explanation of your monitoring requirements.

Facility Name: CORNING CITY OF STP
Permit Number: 0220001

WAYNE-RINGGOLD-DECATUR CO SOLID WASTE MANAGEMENT				
Outfall	**Wastewater Parameter**	**Sample Frequency**	**Sample Type**	**Monitoring Location**
001	AMMONIA NITROGEN (N)	1/WEEK DURING DRAWDOWN	GRAB	PRIOR TO DISCHARGE TO CITY SEWER
001	BIOCHEMICAL OXYGEN DEMAND (BOD5)	1/WEEK DURING DRAWDOWN	GRAB	PRIOR TO DISCHARGE TO CITY SEWER
001	FLOW	7/WEEK OR DAILY	24 HOUR TOTAL	PRIOR TO DISCHARGE TO CITY SEWER
001	NITROGEN, TOTAL KJELDAHL (AS N)	1/WEEK DURING DRAWDOWN	GRAB	PRIOR TO DISCHARGE TO CITY SEWER
001	OIL AND GREASE	1/WEEK DURING DRAWDOWN	GRAB	PRIOR TO DISCHARGE TO CITY SEWER
001	PH	1/WEEK DURING DRAWDOWN	GRAB	PRIOR TO DISCHARGE TO CITY SEWER
001	SANITARY LANDFILL LEACHATE	1 EVERY 12 MONTHS	GRAB	PRIOR TO DISCHARGE TO CITY SEWER
001	TOTAL SUSPENDED SOLIDS	1/WEEK DURING DRAWDOWN	GRAB	PRIOR TO DISCHARGE TO CITY SEWER

ADDITIONAL MONITORING REQUIREMENTS

WAYNE-RINGGOLD-DECATUR COUNTY SOLID WASTE MANAGEMENT

The permittee shall analyze a representative sample of the landfill leachate discharge from Wayne-Ringgold-Decatur County Solid Waste Management at least annually for each of the pollutants listed below. In addition, the permittee shall monitor the volume of waste discharged and pH, BOD5, TSS, TKN, Ammonia Nitrogen, Oil and Grease at the frequencies specified on page 20 of this permit.

Pollutant

Chloride (as Cl)
Sulfate (as SO4)
Arsenic, Total (as As)
Chromium, Total (as Cr)
Copper, Total (as Cu)
Iron, Total (as Fe)
Lead, Total (as Pb)
Nickel, Total (as Ni)
Selenium, Total (as Se)
Zinc, Total (as Zn)
Benzoic Acid
Chlorobenzene
Ethylbenzene
p-Cresol
Phenol
Toluene

The permittee will indicate completion of the annual leachate monitoring by entering a "1" in the "LEACHAT" column on the Discharge Monitoring Report (DMR) spreadsheet on the day that the samples are collected. Select the No Discharge Indicator "NOT REQUIRED/MP" on the DMR spreadsheet during the months that the monitoring is not required.

Results of annual monitoring shall be submitted to the addresses below:

NPDES.mail@dnr.iowa.gov	Iowa DNR Field Office 4
Subject: Landfill Leachate Scan (0220001)	1401 Sunnyside Ln.
	Atlantic, IA 50022

Facility Name: CORNING CITY OF STP
Permit Number: 0220001

Significant Industrial User Discharges:

Significant Industrial User: IOWA WASTE SERVICES, LLC

Outfall #	Outfall Description
001	LANDFILL LEACHATE TRUCKED TO CITY WASTEWATER TREATMENT PLANT

Significant Industrial User Effluent Limitations

You are prohibited from discharging pollutants except in compliance with the following effluent limitations:

IOWA WASTE SERVICES, LLC
Outfall: 001 Effective Dates: 08/01/2022 to 07/31/2027

Parameter	Season	Limit Type	Limit Values
FLOW			
	Yearly	30 Day Average	0.0578 MGD
	Yearly	DAILY MAXIMUM	0.0636 MGD
BIOCHEMICAL OXYGEN DEMAND (BOD5)			
	Yearly	30 Day Average	65.0 LBS/DAY
	Yearly	DAILY MAXIMUM	200.0 LBS/DAY
TOTAL SUSPENDED SOLIDS			
	Yearly	30 Day Average	30.0 LBS/DAY
	Yearly	DAILY MAXIMUM	85.0 LBS/DAY
AMMONIA NITROGEN (N)			
	Yearly	30 Day Average	25.0 LBS/DAY
	Yearly	DAILY MAXIMUM	80.0 LBS/DAY
NITROGEN, TOTAL KJELDAHL (AS N)			
	Yearly	30 Day Average	15.0 LBS/DAY
	Yearly	DAILY MAXIMUM	85.0 LBS/DAY
OIL AND GREASE			
	Yearly	30 Day Average	40.0 MG/L
	Yearly	DAILY MAXIMUM	55.0 MG/L

Facility Name: CORNING CITY OF STP

Permit Number: 0220001

IOWA WASTE SERVICES, LLC Outfall: 001 Effective Dates: 08/01/2022 to 07/31/2027			
Parameter	**Season**	**Limit Type**	**Limit Values**
PH			
	Yearly	DAILY MAXIMUM	10.0 STD UNITS
	Yearly	DAILY MINIMUM	6.0 STD UNITS

Monitoring and Reporting Requirements

(a) Samples and measurements taken shall be representative of the volume and nature of the monitored wastewater.

(b) Analytical and sampling methods specified in 40 CFR Part 136 or other methods approved in writing by the department shall be utilized. All effluent samples for which a limit applies must be analyzed using sufficiently sensitive methods (i.e. testing procedures) approved under 567 IAC Chapter 63 and 40 CFR Part 136 for the analysis of pollutants or pollutant parameters or as required under 40 CFR chapter I, subchapter N or O.

For the purposes of this paragraph, an approved method is sufficiently sensitive when:
(1) the method minimum level (ML) is at or below the level of the effluent limit established in the permit for the measured pollutant or pollutant parameter; or
(2) the method has the lowest ML of the approved analytical methods for the measured pollutant or pollutant parameter.

Samples collected for operational testing need not be analyzed by approved analytical methods; however, commonly accepted test methods should be used.

(c) You are required to report all data including calculated results needed to determine compliance with the limitations contained in this permit. The results of any monitoring not specified in this permit performed at the compliance monitoring point and analyzed according to 40 CFR Part 136 shall be included in the calculation and reporting of any data submitted in accordance with this permit. This includes daily maximums and minimums, 30-day averages and 7-day averages for all parameters that have concentration (mg/l) and mass (lbs/day) limits. In addition, flow data shall be reported in million gallons per day (MGD).

(d) Records of monitoring activities and results shall include for all samples: the date, exact place and time of the sampling; the dates the analyses were performed; who performed the analyses; the analytical techniques or methods used; and the results of such analyses.

(e) Results of all monitoring shall be recorded on forms provided by, or approved by, the department, and shall be submitted to the appropriate regional field office of the department by the fifteenth day following the close of the reporting period. Your reporting period is on a MONTHLY basis, ending on the last day of each reporting period.

(f) Operational performance monitoring for treatment unit process control shall be conducted to ensure that the facility is properly operated in accordance with its design. The results of any operational performance monitoring need not be reported to the department, but shall be maintained in accordance with rule 567 IAC 63.2 (455B). The results of any operational performance monitoring specified in this permit shall be submitted to the department in accordance with these reporting requirements.

(g) Chapter 63 of the rules provides you with further explanation of your monitoring requirements.

Facility Name: CORNING CITY OF STP
Permit Number: 0220001

IOWA WASTE SERVICES, LLC				
Outfall	**Wastewater Parameter**	**Sample Frequency**	**Sample Type**	**Monitoring Location**
001	AMMONIA NITROGEN (N)	1/WEEK DURING DRAWDOWN	GRAB	PRIOR TO DISCHARGE TO CITY SEWER
001	BIOCHEMICAL OXYGEN DEMAND (BOD5)	1/WEEK DURING DRAWDOWN	GRAB	PRIOR TO DISCHARGE TO CITY SEWER
001	FLOW	DAILY DURING DRAWDOWN	24 HOUR TOTAL	PRIOR TO DISCHARGE TO CITY SEWER
001	NITROGEN, TOTAL KJELDAHL (AS N)	1/WEEK DURING DRAWDOWN	GRAB	PRIOR TO DISCHARGE TO CITY SEWER
001	OIL AND GREASE	1/WEEK DURING DRAWDOWN	GRAB	PRIOR TO DISCHARGE TO CITY SEWER
001	PH	1/WEEK DURING DRAWDOWN	GRAB	PRIOR TO DISCHARGE TO CITY SEWER
001	SANITARY LANDFILL LEACHATE	1 EVERY 12 MONTHS	GRAB	PRIOR TO DISCHARGE TO CITY SEWER
001	TOTAL SUSPENDED SOLIDS	1/WEEK DURING DRAWDOWN	GRAB	PRIOR TO DISCHARGE TO CITY SEWER

ADDITIONAL MONITORING REQUIREMENTS

IOWA WASTE SERVICES, LLC

The permittee shall analyze a representative sample of the landfill leachate discharge from Iowa Waste Services, LLC at least annually for each of the pollutants listed below. In addition, the permittee shall monitor the volume of waste discharged and pH, BOD5, TSS, TKN, Ammonia Nitrogen, Oil and Grease at the frequencies specified on page 25 of this permit.

Pollutant

Chloride (as Cl)
Sulfate (as SO4)
Arsenic, Total (as As)
Chromium, Total (as Cr)
Copper, Total (as Cu)
Iron, Total (as Fe)
Lead, Total (as Pb)
Nickel, Total (as Ni)
Selenium, Total (as Se)
Zinc, Total (as Zn)
Benzoic Acid
Chlorobenzene
Ethylbenzene
p-Cresol
Phenol
Toluene

The permittee will indicate completion of the annual leachate monitoring by entering a “1” in the “LEACHAT” column on the Discharge Monitoring Report (DMR) spreadsheet on the day that the samples are collected. Select the No Discharge Indicator “NOT REQUIRED/MP” on the DMR spreadsheet during the months that the monitoring is not required.

Results of annual monitoring shall be submitted to the addresses below:

NPDES.mail@dnr.iowa.gov	Iowa DNR Field Office 4
Subject: Landfill Leachate Scan (0220001)	1401 Sunnyside Ln.
	Atlantic, IA 50022

Facility Name: CORNING CITY OF STP
Permit Number: 0220001

Significant Industrial User Discharges:

Significant Industrial User: POET Biorefining - Corning

Outfall #	**Outfall Description**
001	PROCESS BLOWDOWN EFFLUENT WASTE PRIOR TO DISCHARGE TO MUNICIPAL SEWER SYSTEM.

POET Biorefining - Corning
Outfall: 001 Effective Dates: 08/01/2022 to 07/31/2027

Parameter	Season	Limit Type	Limit Values
BIOCHEMICAL OXYGEN DEMAND (BOD5)			
	Yearly	30 Day Average	65 LBS/DAY
	Yearly	DAILY MAXIMUM	200 LBS/DAY
TOTAL SUSPENDED SOLIDS			
	Yearly	30 Day Average	30 LBS/DAY
	Yearly	DAILY MAXIMUM	85 LBS/DAY
AMMONIA NITROGEN (N)			
	Yearly	30 Day Average	15 LBS/DAY
	Yearly	DAILY MAXIMUM	85 LBS/DAY
NITROGEN, TOTAL KJELDAHL (AS N)			
	Yearly	30 Day Average	15 LBS/DAY
	Yearly	DAILY MAXIMUM	85 LBS/DAY
OIL AND GREASE			
	Yearly	30 Day Average	40 MG/L
	Yearly	DAILY MAXIMUM	55 MG/L
PH			
	Yearly	DAILY MAXIMUM	9.0 STD UNITS
	Yearly	DAILY MINIMUM	6.5 STD UNITS

Facility Name: CORNING CITY OF STP

Permit Number: 0220001

Significant Industrial User Effluent Limitations

You are prohibited from discharging pollutants except in compliance with the following effluent limitations:

POET Biorefining - Corning

Outfall: 001 Effective Dates: 08/01/2022 to 11/30/2022

Parameter	Season	Limit Type	Limit Values
FLOW			
	Yearly	30 Day Average	0.135 MGD
	Yearly	DAILY MAXIMUM	0.195 MGD

Outfall: 001 Effective Dates: 12/01/2022 to 07/31/2027

Parameter	Season	Limit Type	Limit Values
FLOW			
	Yearly	30 Day Average	0.216 MGD
	Yearly	DAILY MAXIMUM	0.300 MGD

Monitoring and Reporting Requirements

(a) Samples and measurements taken shall be representative of the volume and nature of the monitored wastewater.

(b) Analytical and sampling methods specified in 40 CFR Part 136 or other methods approved in writing by the department shall be utilized. All effluent samples for which a limit applies must be analyzed using sufficiently sensitive methods (i.e. testing procedures) approved under 567 IAC Chapter 63 and 40 CFR Part 136 for the analysis of pollutants or pollutant parameters or as required under 40 CFR chapter I, subchapter N or O.

For the purposes of this paragraph, an approved method is sufficiently sensitive when:
(1) the method minimum level (ML) is at or below the level of the effluent limit established in the permit for the measured pollutant or pollutant parameter; or
(2) the method has the lowest ML of the approved analytical methods for the measured pollutant or pollutant parameter.

Samples collected for operational testing need not be analyzed by approved analytical methods; however, commonly accepted test methods should be used.

(c) You are required to report all data including calculated results needed to determine compliance with the limitations contained in this permit. The results of any monitoring not specified in this permit performed at the compliance monitoring point and analyzed according to 40 CFR Part 136 shall be included in the calculation and reporting of any data submitted in accordance with this permit. This includes daily maximums and minimums, 30-day averages and 7-day averages for all parameters that have concentration (mg/l) and mass (lbs/day) limits. In addition, flow data shall be reported in million gallons per day (MGD).

(d) Records of monitoring activities and results shall include for all samples: the date, exact place and time of the sampling; the dates the analyses were performed; who performed the analyses; the analytical techniques or methods used; and the results of such analyses.

(e) Results of all monitoring shall be recorded on forms provided by, or approved by, the department, and shall be submitted to the appropriate regional field office of the department by the fifteenth day following the close of the reporting period. Your reporting period is on a MONTHLY basis, ending on the last day of each reporting period.

(f) Operational performance monitoring for treatment unit process control shall be conducted to ensure that the facility is properly operated in accordance with its design. The results of any operational performance monitoring need not be reported to the department, but shall be maintained in accordance with rule 567 IAC 63.2 (455B). The results of any operational performance monitoring specified in this permit shall be submitted to the department in accordance with these reporting requirements.

(g) Chapter 63 of the rules provides you with further explanation of your monitoring requirements.

Facility Name: CORNING CITY OF STP
Permit Number: 0220001

POET Biorefining - Corning				
Outfall	**Wastewater Parameter**	**Sample Frequency**	**Sample Type**	**Monitoring Location**
001	AMMONIA NITROGEN (N)	1 TIME PER WEEK	GRAB	PRIOR TO DISCHARGE TO CITY SEWER
001	BIOCHEMICAL OXYGEN DEMAND (BOD5)	1 TIME PER WEEK	GRAB	PRIOR TO DISCHARGE TO CITY SEWER
001	FLOW	7/WEEK OR DAILY	24 HOUR TOTAL	PRIOR TO DISCHARGE TO CITY SEWER
001	NITROGEN, TOTAL KJELDAHL (AS N)	1 EVERY MONTH	GRAB	PRIOR TO DISCHARGE TO CITY SEWER
001	OIL AND GREASE	1 EVERY MONTH	GRAB	PRIOR TO DISCHARGE TO CITY SEWER
001	PH	1 TIME PER WEEK	GRAB	PRIOR TO DISCHARGE TO CITY SEWER
001	TOTAL SUSPENDED SOLIDS	1 EVERY 2 WEEKS	GRAB	PRIOR TO DISCHARGE TO CITY SEWER

Facility Name: CORNING CITY OF STP
Permit Number: 0220001

Design Capacity

Design: 1

The design capacity for the treatment works is specified in Construction Permit Number 2002-417-S, issued March 18, 2003. The treatment plant is designed to treat:

* An average dry weather (ADW) flow of 0.400 Million Gallons Per Day (MGD).
* An average wet weather (AWW) flow of 0.543 Million Gallons Per Day (MGD).
* A maximum wet weather (MWW) flow of 1.100 Million Gallons Per Day (MGD).

* A design 5-day biochemical oxygen demand (BOD5) load of 831 lbs/day.
* A design Total Kjeldahl Nitrogen (TKN) load of 192 lbs/day.

Operator Certification Type/Grade: WW/III

Wastes in such volumes or quantities as to exceed the design capacity of the treatment works or reduce the effluent quality below that specified in the operation permit of the treatment works are considered to be a waste which interferes with the operation or performance of the treatment works and are prohibited by subrule IAC 567-62.1(7).

SEWAGE SLUDGE HANDLING AND DISPOSAL REQUIREMENTS

"Sewage sludge" is solid, semisolid, or liquid residue generated during the treatment of domestic sewage in a treatment works. Sewage sludge does not include the grit and screenings generated during preliminary treatment.

1. The permittee shall comply with all existing Federal and State laws and regulations that apply to the use and disposal of sewage sludge and with technical standards developed pursuant to Section 405(d) of the Clean Water Act when such standards are promulgated. If an applicable numerical limit or management practice for pollutants in sewage sludge is promulgated after issuance of this permit that is more stringent than a sludge pollutant limit or management practice specified in existing Federal or State laws or regulations, this permit shall be modified, or revoked and reissued, to conform to the regulations promulgated under Section 405(d) of the Clean Water Act. The permittee shall comply with the limitation no later than the compliance deadline specified in the applicable regulations.

2. The permittee shall provide written notice to the Department of Natural Resources prior to any planned changes in sludge disposal practices.

3. Land application of sewage sludge shall be conducted in accordance with criteria established in rule IAC 567 67.1 through 67.11 (455B).

Facility Name: CORNING CITY OF STP
Permit Number: 0220001

SIGNIFICANT INDUSTRIAL USER LIMITATIONS, MONITORING AND REPORTING REQUIREMENTS

1. You must enforce the pollutant limits for each significant industrial user that are listed elsewhere in this permit. Violation of a treatment agreement limit is prohibited by subrule 567 IAC 62.1(6). Monitoring of each significant industrial user is required elsewhere in this permit.

2. Monitoring of each significant industrial user is required elsewhere in this permit. Results of the required monitoring shall be included on your discharge monitoring report, which must be submitted by the fifteenth of the following month.

3. You are required to notify the department, in writing, of any of the following:

   (a) 180 days prior to the introduction of pollutants to your facility from a significant industrial user. A significant industrial user means an industrial user of a treatment works that:
   (1) Discharges an average of 25,000 gallons per day or more of process wastewater excluding sanitary, noncontact cooling and boiler blowdown wastewater;
   (2) Contributes a process waste stream which makes up five percent or more of the average dry weather hydraulic or organic capacity of the publicly-owned treatment works:
   (3) Is subject to Categorical Pretreatment Standards under 40 CFR 403.6 and 40 CFR Chapter I, Subchapter N; or
   (4) Is designated by the department as a significant industrial user on the basis that the contributing industry, either singly or in combination with other contributing industries, has a reasonable potential for adversely affecting the operation of or effluent quality from the publicly-owned treatment works or for violating any pretreatment standards or requirements.

   (b) 60 days prior to a proposed expansion, production increase or process modification that may result in the discharge of a new pollutant or a discharge in excess of limitations stated in the existing treatment agreement.

   (c) 10 days prior to any commitment by you to accept waste from any new significant industrial user. Your written notification must include a new or revised treatment agreement in accordance with rule 64.3(5)(455B).

4. You shall require all users of your facility to comply with Sections 204(b), 307, and 308 of the Clean Water Act.

   (a) Section 204(b) requires that all users of the treatment works constructed with funds provided under Sections 201(g) or 601 of the Act to pay their proportionate share of the costs of operation, maintenance and replacement of the treatment works.

   (b) Section 307 of the Act requires users to comply with pretreatment standards promulgated by EPA for pollutants that would cause interference with the treatment process or would pass through the treatment works.

   (c) Section 308 of the Act requires users to allow access at reasonable times to state and EPA inspectors for the purpose of sampling the discharge and reviewing and copying records.

STANDARD CONDITIONS

1. **ADMINISTRATIVE RULES -** Rules of the Iowa Department of Natural Resources (department) that govern the operation of a facility in connection with this permit are published in Part 567 of the Iowa Administrative Code (IAC) in Chapters 60-65, 67, and 121. Reference to the term "rule" in this permit means the designated provision of Part 567 of the IAC. Reference to the term "CFR" means the Code of Federal Regulations.

2. **LIMIT DEFINITIONS -**
   (a) 7 day average means the arithmetic mean (average) of pollutant parameter values for samples collected in a period of seven consecutive days. The first 7-day period shall begin with the first day of the month. ***{567 IAC 60.2}***
   (b) 30 day average means the arithmetic mean of pollutant parameter values for samples collected in a period of 30 consecutive days. ***{567 IAC 60.2}***
   (c) Daily maximum means the total discharge by mass, volume, or concentration during a twenty-four hour period. ***{567 IAC 60.2}***

3. **MONITORING AND RECORDS OF OPERATION -**
   (a) Electronic reporting. Records of operation required by this permit shall be electronically submitted to the department within 15 days following the close of the monthly reporting period, in accordance with the monitoring requirements incorporated in this permit, unless an approval for paper submittal of records of operation has been obtained in accordance with 567 IAC 63.7(2).
   (b) Maintenance of records. You shall retain for a minimum of three years all paper and electronic records of monitoring activities and results including all original strip chart recordings for continuous monitoring instrumentation and calibration and maintenance records. ***{567 IAC 63.2(3)}***
   (c) Any person who falsifies, tampers with, or knowingly renders inaccurate any monitoring device or method required to be maintained under this permit shall, upon conviction, be punished by a fine of not more than $10,000 or by imprisonment for not more than two years, or both. ***{40 CFR 122.41(j)(5)}***

4. **USE OF CERTIFIED LABORATORIES -** Analyses of wastewater, groundwater or sewage sludge that are required to be submitted as a result of this permit must be performed by a laboratory certified by the State of Iowa. Routine, on-site monitoring for pH, temperature, dissolved oxygen, total residual chlorine and other pollutants that must be analyzed immediately upon sample collection, physical measurements, and operational performance monitoring specified in 567 IAC 63.3(4) are excluded from this requirement. ***{567 IAC 63.1}***

5. **DUTY TO PROVIDE INFORMATION -** You must furnish to the director, within a reasonable time, any information the director may request to determine compliance with this permit or determine whether cause exists for amending, revoking and reissuing, or terminating this permit, in accordance with 567 IAC 64.3(11)"*c*". You must also furnish to the director, upon request, copies of any records required to be kept by this permit. If you become aware that you failed to submit any relevant facts in a permit application, or submitted incorrect information in a permit application, you must promptly submit such facts or information. If you become aware that you failed to submit any relevant facts in any report to the director, including records of operation, you shall promptly submit such facts or information. ***{567 IAC 60.4(2)"a", 567 IAC 63.7(6), 40 CFR 122.41(h)}***

6. **DUTY TO REAPPLY AND PERMIT CONTINUATION -** If you wish to continue to discharge after the expiration date of this permit, you must file a complete application for reissuance at least 180 days prior to the expiration date of this permit. If a timely and sufficient application is submitted, this permit will remain in effect until the department makes a final determination on the permit application. ***{567 IAC 64.8(1), Iowa Code 17A.18}***

7. **DUTY TO COMPLY -** You must comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the Clean Water Act and is grounds for enforcement action; permit termination, revocation and reissuance, or modification; or denial of a permit renewal application. Issuance of this permit does not relieve you of the responsibility to comply with all local, state and federal laws, ordinances, regulations or other legal requirements applying to the operation of your facility. ***{567 IAC 64.7(4)"e", 40 CFR 122.41(a)}***

8. **DUTY TO MITIGATE -** You shall take all reasonable steps to minimize or prevent any discharge in violation of this permit which has a reasonable likelihood of adversely affecting human health or the environment. ***{See 567 IAC 64.7(7)"i", 40 CFR 122.41(d)}***

9. **PROPER OPERATION AND MAINTENANCE -** All facilities and control systems shall be operated as efficiently as possible and maintained in good working order. A sufficient number of staff, adequately trained and knowledgeable in the operation of your facility, shall be retained at all times. Adequate laboratory controls and appropriate quality assurance procedures shall be provided to maintain compliance with the conditions of this permit. ***{567 IAC 64.7(7)"f", 40 CFR 122.41(e)}***

10. **SIGNATORY REQUIREMENTS -** Applications, discharge monitoring reports, or other information submitted to the department in connection with this permit must be signed and certified in accordance with 567 IAC 64.3(8).

11. **TRANSFER OF TITLE OR OWNER ADDRESS CHANGE -** If title to your facility, or any part of it, is transferred, the new owner shall be subject to this permit. You are required to notify the new owner of the requirements of this permit in writing prior to any transfer of title. The department shall be notified in writing within 30 days of the occurrence. No transfer of the authorization to discharge from the facility represented by the permit shall take place prior to notifying the department of the transfer of title. Whenever the address of the owner is changed, the department shall be notified in writing within 30 days of the address change. ***{567 IAC 64.14}***

STANDARD CONDITIONS

12. **PERMIT MODIFICATION, SUSPENSION OR REVOCATION -** This permit may be amended, revoked and reissued, or terminated in whole or in part for cause including, but not limited to, those specified in 567 IAC 64.3(11)*"b"*. This permit may be modified due to conditions or information on which this permit is based, including any new standard the department may adopt that would change the required effluent limits. If a toxic pollutant is present in your discharge and more stringent standards for toxic pollutants are established under Section 307(a) of the Clean Water Act, this permit will be modified in accordance with the new standards. The filing of a request for a permit amendment, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not stay any permit condition. ***{567 IAC 64.3(11) and 64.7(7)"g", 40 CFR 122.62(a)(6)}***

13. **TWENTY-FOUR HOUR REPORTING -** You shall report any noncompliance that may endanger human health or the environment, including, but not limited to, violations of maximum daily limits for any toxic pollutant (listed as toxic under 307(a)(1) of the Clean Water Act) or hazardous substance (as designated in 40 CFR Part 116 pursuant to 311 of the Act). Information shall be provided orally to the appropriate regional field office of the department within 24 hours from the time you become aware of the circumstances. A written submission that includes a description of noncompliance and its cause; the period of noncompliance including exact dates and times, whether the noncompliance has been corrected or the anticipated time it is expected to continue; and the steps taken or planned to reduce, eliminate, and prevent a reoccurrence of the noncompliance must be provided to the appropriate field office within 5 days of the occurrence. ***{567 IAC 63.12}***

14. **OTHER NONCOMPLIANCE -** You shall report all instances of noncompliance not reported under Condition #13 at the time discharge monitoring reports are submitted. The report shall contain the information listed in Condition #13. You shall give advance notice to the appropriate regional field office of the department of any planned activity which may result in noncompliance with permit requirements. Notice is required only when previous notice has not been given to any other section of the department. ***{567 IAC 63.7(5) and 63.14}***

15. **INSPECTION OF PREMISES, RECORDS, EQUIPMENT, METHODS AND DISCHARGES -** You are required to permit authorized personnel to:
    (a) Enter upon the premises where a regulated facility or activity is located or conducted or where records are kept under conditions of this permit;
    (b) Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
    (c) Inspect, at reasonable times, any facilities, equipment, practices or operations regulated or required under this permit; and
    (d) Sample or monitor, at reasonable times, to assure compliance or as otherwise authorized by the Clean Water Act.
    {40 CFR 122.41(i)}

16. **NOTICE OF CHANGED CONDITIONS -** You are required to notify the director of any changes in existing conditions or information on which this permit is based, including, but not limited to, the following:
    (a) If your facility is a publicly owned treatment works (POTW) or otherwise accepts waste for treatment from an indirect discharger or industrial contributor, you must notify the director if there is any substantial change in the volume or character of pollutants being introduced to the POTW by an indirect discharger or industrial contributor. See 567 IAC 64.3(5) for further requirements. ***{40 CFR 122.42(b)}***
    (b) If your facility has a manufacturing, commercial, mining, or silviculture discharge, you must notify the director as soon as you know or have reason to believe that any activity has occurred or will occur which would result in the discharge of any toxic pollutant which is not limited in this permit. ***{See 40 CFR 122.42(a)}***
    (c) You must notify the director if you have begun or will begin to use or manufacture, as an intermediate or final product or byproduct, any toxic pollutant which was not reported in the permit application. ***{40 CFR 122.21(g)(9})***

17. **PLANNED CHANGES -** You shall give notice to the appropriate regional field office of the department 30 days prior to any planned physical alterations or additions to the permitted facility. Facility expansions, production increases, or process modifications which result in new or increased discharges of pollutants must be reported by submission of a new permit application. If any modification of, addition to, or construction of a disposal system is to be made, you must first obtain a written construction permit from this department. In addition, no construction activity that will result in disturbance of one acre or more shall be initiated without first obtaining coverage under NPDES General Permit No. 2.
    Notice is required only when:
    (a) Notice has not been given to any other section of the department:
    (b) The alteration or addition to a permitted facility may meet one of the criteria for determining whether a facility is a new source as defined in 567 IAC 60.2;
    (c) The alteration or addition results in a significant change in sludge use or disposal practices; or
    (d) The alteration or addition could significantly change the nature or increase the quantity of pollutants discharged. This notification applies to pollutants that are not subject to effluent limitations in the permit.
    {567 IAC 63.13, 567 IAC 64.2 and 64.7(7)"a"}

18. **FAILURE TO SUBMIT FEES -** This permit may be revoked, in whole or in part, if the appropriate permit fees are not submitted within thirty (30) days of the date of notification that such fees are due. ***{567 IAC 64.16(1)}***

STANDARD CONDITIONS

19. **BYPASSES -** "Bypass" means the diversion of waste streams from any portion of a treatment facility or collection system. A bypass does not include internal operational waste stream diversions that are part of the design of the treatment facility, maintenance diversions where redundancy is provided, diversions of wastewater from one point in a collection system to another point in a collection system, or wastewater backups into buildings that are caused in the building lateral or private sewer line.
    (a) Prohibitions.
        i. Bypasses from any portion of a treatment facility or from a sanitary sewer collection system designed to carry only sewage are prohibited.
        ii. The department may not assess a civil penalty against a permittee for a bypass if the permittee has complied with all of the following:
            (1) The bypass was unavoidable to prevent loss of life, personal injury, or severe property damage;
            (2) There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate backup equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance; and
            (3) The permittee submitted notices as required by paragraph (d) of this section.
    (c) The Director may approve an anticipated bypass after considering its adverse effects if the Director determines that it will meet the three conditions listed above and a request for bypass has been submitted to the appropriate regional field office of the department at least ten days prior to the expect event, in accordance with 567 IAC 63.6(2).
    (d) Bypasses shall be reported in accordance with 567 IAC 63.6.
    {567 IAC 63.6}

20. **UPSETS -** "Upset" means an exceptional incident in which there is unintentional and temporary noncompliance with technology-based permit effluent limitations because of factors beyond the reasonable control of the permittee. An upset does not include noncompliance to the extent caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventive maintenance, or careless or improper operation.
    (a) *Effect of an upset.* An upset constitutes an affirmative defense to the assessment of a civil penalty for noncompliance with technology-based permit effluent limitations if the requirements of paragraph (c) of this condition are met. No determination made during administrative review of claims that noncompliance was caused by upset, and before an action for noncompliance, is final administrative action subject to judicial review.
    (b) *Conditions necessary for demonstration of an upset.* A permittee who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed operating logs or other relevant evidence, that;
        i. An upset occurred and that the permittee can identify the cause(s) of the upset;
        ii. The permitted facility was at the time being properly operated;
        iii. The permittee submitted notice of the upset to the department in accordance with 567 IAC 63.6(3); and
        iv. The permittee complied with any remedial measures required by the department in accordance with 567 IAC 63.6(6)"*b*".
    (c) *Burden of Proof.* In any enforcement proceeding, the permittee seeking to establish the occurrence of an upset has the burden of proof.
    {567 IAC 63.6}

21. **NEED TO HALT OR REDUCE ACTIVITY -** It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. ***{567 IAC 64.7(7)"j", 40 CFR 122.41(c)}***

22. **PROPERTY RIGHTS -** This permit does not convey any property rights of any sort or any exclusive privilege. ***{567 IAC 64.4(3)"b", 40 CFR 122.41(g)}***

23. **EFFECT OF A PERMIT -** Compliance with a permit during its term constitutes compliance, for purposes of enforcement, with Sections 301, 302, 306, 307, 318, 403 and 405(a)-(b) of the Clean Water Act, and equivalent limitations and standards set out in 567 IAC Chapters 61 and 62. ***{567 IAC 64.4(3)"a"}***

24. **SEVERABILITY -** The provisions of this permit are severable and if any provision or application of any provision to any circumstance is found to be invalid by this department or a court of law, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected by such finding.

Appendix H.3
Leachate Testing Results

Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

1HG2116

Project Description

Cass Co SLF

For:

Todd Whipple

HLW Engineering

PO Box 314

Story City, IA 50248

Heather Murphy

Customer Relationship Specialist

Wednesday, August 14, 2024

Please find enclosed the analytical results for the samples you submitted to Microbac Laboratories. Review and compilation of your report was completed by Microbac Laboratories, Inc., Newton. If you have any questions, comments, or require further assistance regarding this report, please contact your service representative listed above.

I certify that all test results meet all of the requirements of the accrediting authority listed within this report. Analytical results are reported on a 'as received' basis unless specified otherwise. Analytical results for solids with units ending in (dry) are reported on a dry weight basis. A statement of uncertainty for each analysis is available upon request. This laboratory report shall not be reproduced, except in full, without the written approval of Microbac Laboratories. The reported results are related only to the samples analyzed as received.

Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

1HG2116

HLW Engineering

Todd Whipple
PO Box 314
Story City, IA 50248

Project Name: Cass Co SLF

Project / PO Number: N/A
Received: 07/26/2024
Reported: 08/14/2024

Sample Summary Report

Sample Name	Laboratory ID	Client Matrix	Sample Type	Sample Begin	Sample Taken	Lab Received
Leachate Lagoon	1HG2116-01	Aqueous	GRAB		07/25/24 15:20	07/26/24 10:18

Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

1HG2116

Analytical Testing Parameters

Client Sample ID:	Leachate Lagoon		
Sample Matrix:	Aqueous	**Collected By:**	JGH
Lab Sample ID:	1HG2116-01	**Collection Date:**	07/25/2024 15:20

Determination of Conventional Chemistry Parameters	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
4500CN-E								
Cyanide, total	**0.008**	0.005	mg/L	1		08/05/24 0832	08/05/24 1423	BSS
EPA 150.1								
pH	**8.7**	0.5	pH	1	**H4**		07/29/24 1700	BSS
EPA 351.2								
Nitrogen, Kjeldahl, total	**69.5**	2.50	mg/L	1			08/05/24 0841	AKK
SM 5210 B								
BOD (5 day)	**15**	8	mg/L	4	**H2**	08/01/24 1019	08/01/24 1108	MND
USGS I-3765-85								
Total Suspended Solids (TSS)	**4**	1	mg/L	1		07/30/24 0844	07/30/24 1145	MEAH

Determination of Total Metals	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 200.8								
Arsenic, total	**0.0412**	0.0020	mg/L	4		07/31/24 1537	08/01/24 2329	RVV
Cadmium, total	<0.0002	0.0002	mg/L	4		07/31/24 1537	08/01/24 2329	RVV
Chromium, total	**0.0428**	0.0020	mg/L	4		07/31/24 1537	08/01/24 2329	RVV
Copper, total	<0.0020	0.0020	mg/L	4		07/31/24 1537	08/01/24 2329	RVV
Lead, total	<0.0008	0.0008	mg/L	4		07/31/24 1537	08/01/24 2329	RVV
Nickel, total	**0.125**	0.0040	mg/L	4		07/31/24 1537	08/01/24 2329	RVV
Selenium, total	<0.0040	0.0040	mg/L	4		07/31/24 1537	08/01/24 2329	RVV
Silver, total	<0.0020	0.0020	mg/L	4		07/31/24 1537	08/01/24 2329	RVV
Zinc, total	<0.0200	0.0200	mg/L	4		07/31/24 1537	08/01/24 2329	RVV
EPA 7470A								
Mercury, total	<0.00050	0.00050	mg/L	1	**M2**	08/13/24 0846	08/14/24 0832	JAR

Batch Log Summary

Method	Batch	Laboratory ID	Client / Source ID
SM 5210 B	1HG1477	1HG1477-BLK1	
		1HG1477-SRM1	
		1HG1477-DUP2	1HG2093-01

Method	Batch	Laboratory ID	Client / Source ID
EPA 150.1	1HG1550	1HG2116-01	Leachate Lagoon
		1HG1550-SRM1	
		1HG1550-SRM2	
		1HG1550-DUP1	1HG2116-01

Method	Batch	Laboratory ID	Client / Source ID
USGS I-3765-85	1HG1561	1HG1561-BS1	
		1HG1561-DUP1	1HG2105-01
		1HG1561-BLK1	
		1HG2116-01	Leachate Lagoon

Method	Batch	Laboratory ID	Client / Source ID
EPA 200.8	1HG1685	1HG1685-BLK1	
		1HG1685-BS1	
		1HG1685-MS1	1HG2077-01
		1HG1685-MSD1	1HG2077-01
		1HG1685-PS1	1HG2077-01
		1HG2116-01	Leachate Lagoon

Method	Batch	Laboratory ID	Client / Source ID
SM 5210 B	1HH0028	1HH0028-BLK1	
		1HH0028-SRM1	
		1HG2116-01RE1	Leachate Lagoon
		1HH0028-DUP1	1HG2361-01

Method	Batch	Laboratory ID	Client / Source ID
4500CN-E	1HH0140	1HH0140-BLK1	
		1HH0140-MSD1	1HG2076-01
		1HH0140-MS1	1HG2076-01
		1HG2116-01	Leachate Lagoon
		1HH0140-BS1	

Method	Batch	Laboratory ID	Client / Source ID
EPA 351.2	1HH0146	1HH0146-MSD1	1HG2102-02
		1HH0146-MS1	1HG2102-02
		1HG2116-01	Leachate Lagoon

Method	Batch	Laboratory ID	Client / Source ID
EPA 351.2	1HH0146	1HH0146-BS1	
		1HH0146-BLK1	

Method	Batch	Laboratory ID	Client / Source ID
EPA 7470A	1HH0619	1HH0619-BLK1	
		1HH0619-BS1	
		1HG2116-01	Leachate Lagoon
		1HH0619-MS1	1HG2116-01
		1HH0619-MSD1	1HG2116-01

Batch Quality Control Summary: Microbac Laboratories, Inc., Newton

Determination of Conventional Chemistry Parameters	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1HG1477 - General Prep Micro - SM 5210 B										
Blank (1HG1477-BLK1)			Prepared: 07/26/24 16:19 Analyzed: 07/26/24 17:32							
BOD (5 day)	<20	20	mg/L							
Duplicate (1HG1477-DUP2)		**Source: 1HG2093-01**	Prepared: 07/26/24 16:19 Analyzed: 07/26/24 18:21							
BOD (5 day)	74.2	24	mg/L		89.0			18.2	30	
Reference (1HG1477-SRM1)			Prepared: 07/26/24 16:19 Analyzed: 07/26/24 17:47							
BOD (5 day)	168	100	mg/L	198		85.1	84.6-115.4			
Batch 1HG1550 - Wet Chem Preparation - EPA 150.1										
Duplicate (1HG1550-DUP1)		**Source: 1HG2116-01**	Prepared & Analyzed: 07/29/24 17:00							
pH	8.7	0.5	pH		8.7			0.311	10	
Reference (1HG1550-SRM1)			Prepared & Analyzed: 07/29/24 17:00							
pH	7.0	0.5	pH	7.00		100	90-110			
Reference (1HG1550-SRM2)			Prepared & Analyzed: 07/29/24 17:00							
pH	7.1	0.5	pH	7.00		101	90-110			
Batch 1HG1561 - Wet Chem Preparation - USGS I-3765-85										
Blank (1HG1561-BLK1)			Prepared: 07/30/24 08:44 Analyzed: 07/30/24 11:45							
Total Suspended Solids (TSS)	<1	1	mg/L							
LCS (1HG1561-BS1)			Prepared: 07/30/24 08:44 Analyzed: 07/30/24 11:45							
Total Suspended Solids (TSS)	14.0	1	mg/L	15.0		93.3	71-110			
Duplicate (1HG1561-DUP1)		**Source: 1HG2105-01**	Prepared: 07/30/24 08:44 Analyzed: 07/30/24 11:45							
Total Suspended Solids (TSS)	109	1	mg/L		115			5.20	30	
Batch 1HH0028 - General Prep Micro - SM 5210 B										
Blank (1HH0028-BLK1)			Prepared: 08/01/24 10:19 Analyzed: 08/01/24 10:56							
BOD (5 day)	<2	2	mg/L							
Duplicate (1HH0028-DUP1)		**Source: 1HG2361-01**	Prepared: 08/01/24 10:19 Analyzed: 08/01/24 12:08							

Determination of Conventional Chemistry Parameters	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1HH0028 - General Prep Micro - SM 5210 B										
Duplicate (1HH0028-DUP1)	**Source: 1HG2361-01**		Prepared: 08/01/24 10:19 Analyzed: 08/01/24 12:08							
BOD (5 day)	<24	24	mg/L		ND				30	
Reference (1HH0028-SRM1)			Prepared: 08/01/24 10:19 Analyzed: 08/01/24 11:03							
BOD (5 day)	168	100	mg/L	198		84.6	84.6-115.4			
Batch 1HH0140 - Wet Chem Preparation - 4500CN-E										
Blank (1HH0140-BLK1)			Prepared: 08/05/24 08:32 Analyzed: 08/05/24 14:23							
Cyanide, total	<0.005	0.005	mg/L							
LCS (1HH0140-BS1)			Prepared: 08/05/24 08:32 Analyzed: 08/05/24 14:23							
Cyanide, total	0.053	0.005	mg/L	0.0600		88.4	64-123			
Matrix Spike (1HH0140-MS1)	**Source: 1HG2076-01**		Prepared: 08/05/24 08:32 Analyzed: 08/05/24 14:23							
Cyanide, total	0.052	0.005	mg/L	0.0600	ND	87.3	60-127			
Matrix Spike Dup (1HH0140-MSD1)	**Source: 1HG2076-01**		Prepared: 08/05/24 08:32 Analyzed: 08/05/24 14:23							
Cyanide, total	0.043	0.005	mg/L	0.0600	ND	71.2	60-127	20.4	30	
Batch 1HH0146 - Wet Chem Preparation - EPA 351.2										
Blank (1HH0146-BLK1)			Prepared & Analyzed: 08/05/24 08:41							
Nitrogen, Kjeldahl, total	<1.00	1.00	mg/L							
LCS (1HH0146-BS1)			Prepared & Analyzed: 08/05/24 08:41							
Nitrogen, Kjeldahl, total	19.2	1.00	mg/L	20.0		95.8	90-110			
Matrix Spike (1HH0146-MS1)	**Source: 1HG2102-02**		Prepared & Analyzed: 08/05/24 08:41							
Nitrogen, Kjeldahl, total	49.3	2.50	mg/L	50.0	ND	98.7	90-110			
Matrix Spike Dup (1HH0146-MSD1)	**Source: 1HG2102-02**		Prepared & Analyzed: 08/05/24 08:41							
Nitrogen, Kjeldahl, total	49.2	2.50	mg/L	50.0	ND	98.4	90-110	0.264	10	

Determination of Total Metals	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1HG1685 - EPA 200.2 Total ICP-MS - EPA 200.8										
Blank (1HG1685-BLK1)			Prepared: 07/31/24 15:37 Analyzed: 08/01/24 22:27							
Arsenic, total	<0.0020	0.0020	mg/L							
Cadmium, total	<0.0002	0.0002	mg/L							
Chromium, total	<0.0020	0.0020	mg/L							
Copper, total	<0.0020	0.0020	mg/L							
Lead, total	<0.0008	0.0008	mg/L							
Nickel, total	<0.0040	0.0040	mg/L							
Selenium, total	<0.0040	0.0040	mg/L							
Silver, total	<0.0020	0.0020	mg/L							
Zinc, total	<0.0200	0.0200	mg/L							
LCS (1HG1685-BS1)			Prepared: 07/31/24 15:37 Analyzed: 08/01/24 22:33							

Determination of Total Metals	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1HG1685 - EPA 200.2 Total ICP-MS - EPA 200.8										
LCS (1HG1685-BS1)			Prepared: 07/31/24 15:37 Analyzed: 08/01/24 22:33							
Arsenic, total	0.0938	0.0020	mg/L	0.100		93.8	85-115			
Cadmium, total	0.0969	0.0002	mg/L	0.100		96.9	85-115			
Chromium, total	0.0979	0.0020	mg/L	0.100		97.9	85-115			
Copper, total	0.0993	0.0020	mg/L	0.100		99.3	85-115			
Lead, total	0.0990	0.0008	mg/L	0.100		99.0	85-115			
Nickel, total	0.0997	0.0040	mg/L	0.100		99.7	85-115			
Selenium, total	0.0938	0.0040	mg/L	0.100		93.8	85-115			
Silver, total	0.102	0.0020	mg/L	0.100		102	85-115			
Zinc, total	0.0957	0.0200	mg/L	0.100		95.7	85-115			
Matrix Spike (1HG1685-MS1)	**Source: 1HG2077-01**		Prepared: 07/31/24 15:37 Analyzed: 08/01/24 22:46							
Arsenic, total	0.0971	0.0020	mg/L	0.100	0.0018	95.2	70-130			
Cadmium, total	0.0958	0.0002	mg/L	0.100	ND	95.8	70-130			
Chromium, total	0.104	0.0020	mg/L	0.100	0.0015	103	70-130			
Copper, total	0.130	0.0020	mg/L	0.100	0.0318	98.2	70-130			
Lead, total	0.0981	0.0008	mg/L	0.100	ND	98.1	70-130			
Nickel, total	0.102	0.0040	mg/L	0.100	0.0052	97.2	70-130			
Selenium, total	0.0895	0.0040	mg/L	0.100	ND	89.5	70-130			
Silver, total	0.103	0.0020	mg/L	0.100	ND	103	70-130			
Zinc, total	0.0973	0.0200	mg/L	0.100	ND	97.3	70-130			
Matrix Spike Dup (1HG1685-MSD1)	**Source: 1HG2077-01**		Prepared: 07/31/24 15:37 Analyzed: 08/01/24 22:52							
Arsenic, total	0.0957	0.0020	mg/L	0.100	0.0018	93.9	70-130	1.40	20	
Cadmium, total	0.0938	0.0002	mg/L	0.100	ND	93.8	70-130	2.04	20	
Chromium, total	0.103	0.0020	mg/L	0.100	0.0015	101	70-130	1.48	20	
Copper, total	0.127	0.0020	mg/L	0.100	0.0318	95.6	70-130	2.04	20	
Lead, total	0.0966	0.0008	mg/L	0.100	ND	96.6	70-130	1.54	20	
Nickel, total	0.101	0.0040	mg/L	0.100	0.0052	96.2	70-130	1.03	20	
Selenium, total	0.0904	0.0040	mg/L	0.100	ND	90.4	70-130	1.00	20	
Silver, total	0.100	0.0020	mg/L	0.100	ND	100	70-130	2.44	20	
Zinc, total	0.0993	0.0200	mg/L	0.100	ND	99.3	70-130	2.06	20	
Post Spike (1HG1685-PS1)	**Source: 1HG2077-01**		Prepared: 07/31/24 15:37 Analyzed: 08/01/24 22:58							
Arsenic, total	0.0761		mg/L	0.0800	0.0018	92.9	70-130			
Cadmium, total	0.0742		mg/L	0.0800	0.000004	92.7	70-130			
Chromium, total	0.0800		mg/L	0.0800	0.0015	98.1	70-130			
Copper, total	0.108		mg/L	0.0800	0.0311	96.1	70-130			
Lead, total	0.0758		mg/L	0.0800	0.0001	94.6	70-130			
Nickel, total	0.0832		mg/L	0.0800	0.0051	97.6	70-130			
Selenium, total	0.0704		mg/L	0.0800	0.0005	87.4	70-130			
Silver, total	0.0792		mg/L	0.0800	0.0005	98.4	70-130			
Zinc, total	0.0804		mg/L	0.0800	0.0085	89.9	70-130			
Batch 1HH0619 - EPA 7470A Hg Water - EPA 7470A										
Blank (1HH0619-BLK1)			Prepared: 08/13/24 08:46 Analyzed: 08/14/24 08:27							

Determination of Total Metals	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1HH0619 - EPA 7470A Hg Water - EPA 7470A										
Blank (1HH0619-BLK1)			Prepared: 08/13/24 08:46 Analyzed: 08/14/24 08:27							
Mercury, total	<0.00050	0.00050	mg/L							
LCS (1HH0619-BS1)			Prepared: 08/13/24 08:46 Analyzed: 08/14/24 08:29							
Mercury, total	0.00248	0.00050	mg/L	0.00250		99.3	80-120			
Matrix Spike (1HH0619-MS1)		**Source: 1HG2116-01**	Prepared: 08/13/24 08:46 Analyzed: 08/14/24 08:34							
Mercury, total	0.00167	0.00050	mg/L	0.00250	ND	66.8	75-125			M2
Matrix Spike Dup (1HH0619-MSD1)		**Source: 1HG2116-01**	Prepared: 08/13/24 08:46 Analyzed: 08/14/24 08:41							
Mercury, total	0.00178	0.00050	mg/L	0.00250	ND	71.4	75-125	6.60	20	M2

Definitions

H2:	Initial analysis was within holding time. Reanalysis was done past holding time.
H4:	The test was performed outside of the EPA recommended holding time of 15 minutes.
M2:	Matrix spike recovery is below acceptance limits.
RL:	Reporting Limit
RPD:	Relative Percent Difference

Cooler Receipt Log

Cooler ID: Default Cooler Temp: 0.0°C

Cooler Inspection Checklist

Custody Seals	No	Containers Intact	Yes
COC/Labels Agree	Yes	Preservation Confirmed	No
Received On Ice	Yes		

Report Comments

The data and information on this, and other accompanying documents, represents only the sample(s) analyzed. This report is incomplete unless all pages indicated in the footnote are present and an authorized signature is included. ***The services were provided under and subject to Microbac's standard terms and conditions which can be located and reviewed at <https://www.microbac.com/standard-terms-conditions>.***

Reviewed and Approved By:

Heather Murphy

Heather Murphy
Customer Relationship Specialist
heather.murphy@microbac.com
08/14/24 16:06

CHAIN OF CUSTODY RECORD

Keystone LABORATORIES, INC.

☐ 600 E. 17th St. S.
Newton, IA 50208
Phone: 641-792-8451
Fax: 641-792-7989

☐ 1HG2116
HLW Engineering
PM: Heather Murphy

☐ 205 E VanBuren St
Centerville, IA 52544
Phone: 641-437-7023
Fax: 641-437-7040

PAGE 1 OF 1

PRINT OR TYPE INFORMATION BELOW		REPORT TO: + CLIENT →		BILL TO:	
SAMPLER:	JGH	NAME:	Todd Whipple	NAME:	Brandi Mericle
SITE NAME:	Cass Co SLF	COMPANY NAME:	HLW Group LLC	COMPANY NAME:	Cass County Envir. Control Agency
ADDRESS:		ADDRESS:	P.O Box 314	ADDRESS:	65928 Jackson Rd
CITY/ST/ZIP:	Atlantic, IA	CITY/ST/ZIP:	Story City IA 50248	CITY/ST/ZIP:	Atlantic, IA 50022
PHONE:		PHONE:	515 733 4144	PHONE:	712-243-1991
		FAX:	4146	Keystone Quote No: (If Applicable)	

ANALYSES REQUIRED

LAB USE ONLY
LABORATORY WORK ORDER NO. 1HG2116
SAMPLE TEMPERATURE UPON RECEIPT: 0.0 on ice °C

CLIENT SAMPLE NUMBER	DATE	TIME	SAMPLE LOCATION	NO. OF CONTAINERS	MATRIX	GRAB/COMPOSITE	See Attached List							SAMPLE CONDITION/COMMENTS	LABORATORY SAMPLE NUMBER
Leachate Lagoon	7/25/24	15:20	Leachate Lagoon	5	W	G	X								01

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Date / Time	Turn-Around:
[signature]	Date 7/25/24 Time 15:43	[signature]	Date 7/25/24 Time 15:43	☐ Standard ☐ Rush Contact Lab Prior to Submission
Relinquished by: (Signature)	Date Time	Received for Lab by: (Signature) [signature]	Date 7/26/24 Time 10:18	Remarks:

Original - Lab Copy • Yellow - Sampler Copy

FORM: CCR 7-97

Facility Name: ATLANTIC CITY OF STP
Permit Number: 1509001

CASS COUNTY SANITARY LANDFILL

Outfall	Wastewater Parameter	Sample Frequency	Sample Type	Monitoring Location
001	ARSENIC, TOTAL (AS AS)	1 EVERY BATCH	GRAB	PRIOR TO DISCHARGE TO CITY SEWER
001	BIOCHEMICAL OXYGEN DEMAND (BOD5)	1 EVERY BATCH	GRAB	PRIOR TO DISCHARGE TO CITY SEWER
001	CADMIUM, TOTAL (AS CD)	1 EVERY BATCH	GRAB	PRIOR TO DISCHARGE TO CITY SEWER
001	CHROMIUM, HEXAVALENT, AS CR (CHROMIUM VI)	1 EVERY BATCH	GRAB	PRIOR TO DISCHARGE TO CITY SEWER
001	COPPER, TOTAL (AS CU)	1 EVERY BATCH	GRAB	PRIOR TO DISCHARGE TO CITY SEWER
001	CYANIDE, TOTAL (AS CN)	1 EVERY BATCH	GRAB	PRIOR TO DISCHARGE TO CITY SEWER
001	FLOW	1 EVERY BATCH	CALCULATED	PRIOR TO DISCHARGE TO CITY SEWER
001	LEAD, TOTAL (AS PB)	1 EVERY BATCH	GRAB	PRIOR TO DISCHARGE TO CITY SEWER
001	MERCURY, TOTAL (AS HG)	1 EVERY BATCH	GRAB	PRIOR TO DISCHARGE TO CITY SEWER
001	NICKEL, TOTAL (AS NI)	1 EVERY BATCH	GRAB	PRIOR TO DISCHARGE TO CITY SEWER
001	NITROGEN, TOTAL KJELDAHL (AS N)	1 EVERY BATCH	GRAB	PRIOR TO DISCHARGE TO CITY SEWER
001	PH	1 EVERY BATCH	GRAB	PRIOR TO DISCHARGE TO CITY SEWER
001	SANITARY LANDFILL LEACHATE	1 EVERY BATCH	GRAB	PRIOR TO DISCHARGE TO CITY SEWER
001	SELENIUM, TOTAL (AS SE)	1 EVERY BATCH	GRAB	PRIOR TO DISCHARGE TO CITY SEWER
001	SILVER, TOTAL (AS AG)	1 EVERY BATCH	GRAB	PRIOR TO DISCHARGE TO CITY SEWER
001	TOTAL SUSPENDED SOLIDS	1 EVERY BATCH	GRAB	PRIOR TO DISCHARGE TO CITY SEWER
001	ZINC, TOTAL (AS ZN)	1 EVERY BATCH	GRAB	PRIOR TO DISCHARGE TO CITY SEWER

CASS COUNTY SANITARY LANDFILL Special Monitoring Requirements

Outfall #	Description
001	**FLOW**
	Total volume of leachate discharged to City sewer.
	SANITARY LANDFILL LEACHATE
	PLEASE REFER TO PAGE 17 LISTING ADDITIONAL LEACHATE MONITORING REQUIREMENTS.

Facility Name: ATLANTIC CITY OF STP
Permit Number: 1509001

ADDITIONAL MONITORING REQUIREMENTS
CASS COUNTY SANITARY LANDFILL

The permittee shall analyze a representative sample of the landfill leachate discharge from Prairie Solid Waste Agency at least annually for each of the pollutants listed below. In addition, the permittee shall monitor the volume of waste discharged and other pollutant parameters listed on page 16 of this permit at the specified frequencies.

Pollutant
Biochemical Oxygen Demand (BOD5)
Total Suspended Solids
Ammonia Nitrogen (NH3-N)
Oil and Grease (O&G)
pH
Chloride (as Cl)
Sulfate (as SO4)
Arsenic, Total (as As)
Chromium, Total (as Cr)
Copper, Total (as Cu)
Iron, Total (as Fe)
Lead, Total (as Pb)
Nickel, Total (as Ni)
Selenium, Total (as Se)
Zinc, Total (as Zn)
Benzoic Acid
Chlorobenzene
Ethylbenzene
p-Cresol
Phenol
Toluene

The permittee will indicate completion of the annual leachate monitoring by entering a "1" in the "LEACHAT" column on the Discharge Monitoring Report (DMR) spreadsheet on the day that the samples are collected. Select the No Discharge Indicator "NOT REQUIRED/MP" on the DMR spreadsheet during the months that the monitoring is not required.

Results of annual monitoring shall be submitted to the addresses below:

NPDES.mail@dnr.iowa.gov
Subject: Landfill Leachate Scan (1509001)

Iowa DNR Field Office 4
1401 Sunnyside Lane
Atlantic, IA 50022

1HG2116
HLW Engineering
PM: Heather Murphy

Facility Name: ATLANTIC CITY OF STP
Permit Number: 1509001

1 H G 2 1 1 6
HLW Engineering
PM: Heather Murphy

Significant Industrial User Discharges:

Significant Industrial User: CASS COUNTY SANITARY LANDFILL

Outfall # **Outfall Description**

001 DISCHARGE TO THE ATLANTIC MUNICIPAL COLLECTION SYSTEM

Significant Industrial User Effluent Limitations

You are prohibited from discharging pollutants except in compliance with the following effluent limitations:

TKN
BOD5
TSS
metals, total
Cyanide
pH
Mercury ?

CASS COUNTY SANITARY LANDFILL
Outfall: 001 Effective Dates: 11/01/2019 to 10/31/2024

Parameter	Season	Limit Type	Limit Values
FLOW			
	Yearly	DAILY MAXIMUM	0.04 MGD
BIOCHEMICAL OXYGEN DEMAND (BOD5)			
	Yearly	30 Day Average	100 LBS/DAY
TOTAL SUSPENDED SOLIDS			
	Yearly	30 Day Average	100 LBS/DAY
ZINC, TOTAL (AS ZN)			
	Yearly	30 Day Average	0.133 MG/L
	Yearly	DAILY MAXIMUM	0.133 MG/L
CADMIUM, TOTAL (AS CD)			
	Yearly	30 Day Average	0.001 MG/L
	Yearly	DAILY MAXIMUM	0.0024 MG/L
CHROMIUM, HEXAVALENT, AS CR (CHROMIUM VI)			
	Yearly	30 Day Average	0.217 MG/L
	Yearly	DAILY MAXIMUM	0.217 MG/L
CYANIDE, TOTAL (AS CN)			
	Yearly	30 Day Average	0.012 MG/L
	Yearly	DAILY MAXIMUM	0.024 MG/L

Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

1HJ1478

HLW Engineering

Todd Whipple
204 West Broad St
Story City, IA 50248

Project Name: Cass Co. Leachate Lagoon

Project / PO Number: N/A
Received: 10/18/2024
Reported: 11/04/2024

Analytical Testing Parameters

Client Sample ID: Leachate Lagoon
Sample Matrix: Aqueous
Lab Sample ID: 1HJ1478-01
Collection Date: 10/17/2024

Determination of Volatile Organic Compounds	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 624.1								
Toluene	<5.0	5.0	ug/L	5		10/28/24 0000	10/28/24 1223	CSM
Chlorobenzene	<5.0	5.0	ug/L	5		10/28/24 0000	10/28/24 1223	CSM
Ethylbenzene	<5.0	5.0	ug/L	5		10/28/24 0000	10/28/24 1223	CSM
Surrogate: Dibromofluoromethane	97.5	Limit: 59-123	% Rec	5		10/28/24 0000	10/28/24 1223	CSM
Surrogate: 1,2-Dichloroethane-d4	92.7	Limit: 56-130	% Rec	5		10/28/24 0000	10/28/24 1223	CSM
Surrogate: Toluene-d8	95.7	Limit: 85-113	% Rec	5		10/28/24 0000	10/28/24 1223	CSM
Surrogate: 4-Bromofluorobenzene	93.9	Limit: 82-112	% Rec	5		10/28/24 0000	10/28/24 1223	CSM

Determination of Acid Extractable Compounds	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 625.1								
Phenol	**359**	10	ug/L	1		10/22/24 1128	10/25/24 2208	EPP
(3 & 4)-Methylphenol	<10	10	ug/L	1		10/22/24 1128	10/25/24 2208	EPP
Benzoic acid	<50	50	ug/L	1		10/22/24 1128	10/25/24 2208	EPP
Surrogate: 2-Fluorophenol	40.4	Limit: 16-140	% Rec	1		10/22/24 1128	10/25/24 2208	EPP
Surrogate: Phenol-d6	48.8	Limit: 13-147	% Rec	1		10/22/24 1128	10/25/24 2208	EPP
Surrogate: 2,4,6-Tribromophenol	32.1	Limit: 20-158	% Rec	1		10/22/24 1128	10/25/24 2208	EPP

Determination of Conventional Chemistry Parameters	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
TIMBERLINE								
Nitrogen, Ammonia	**145**	10.0	mg/L	100		10/22/24 1012	10/23/24 1244	RAF

Determination of Inorganic Anions	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
300.0								
Chloride	**2220**	50.0	mg/L	50		10/31/24 0000	10/31/24 2222	EPP
Sulfate	**17.3**	5.0	mg/L	5		11/01/24 0000	11/01/24 1118	EPP

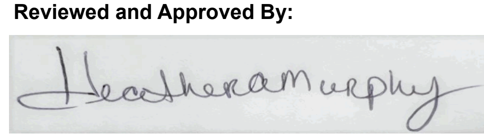
Determination of Total Metals	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
200.7								
Iron, total	**3.16**	0.100	mg/L	1		10/21/24 1510	10/23/24 1300	JAR
EPA 200.7								
Chromium, total	**0.079**	0.005	mg/L	1		10/21/24 1510	10/23/24 1300	JAR

Definitions

RL:	Reporting Limit

Report Comments

Reviewed and Approved By:



Heather Murphy

Customer Relationship Specialist

heather.murphy@microbac.com

11/04/24 16:57

The data and information on this, and other accompanying documents, represents only the sample(s) analyzed. This report is incomplete unless all pages indicated in the footnote are present and an authorized signature is included. ***The services were provided under and subject to Microbac's standard terms and conditions which can be located and reviewed at <https://www.microbac.com/standard-terms-conditions>.***

CHAIN OF CUSTODY RECORD

MICROBAC®
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Newton, IA 50208
641-792-8451

1HJ1478
HLW Engineering
PM: Heather Murphy

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www.keystonelabs.com

SITE INFORMATION

Sampler: JGH

Project: Cass Co. Leachate Lagoon

REPORT TO

Todd Whipple
HLW Engineering
PO Box 314
Story City, IA 50248

INVOICE TO

Brandi Mericle
Cass County Landfill
65928 Jackson Rd
Atlantic, IA 50022

SPECIAL INSTRUCTIONS

None

Turn Around Time

☒ Standard ☐ RUSH, need by ___/___/___

LAB USE ONLY

Work Order: 1HJ1478
Temperature: 1.4°C
Turn-Cooler: No

☐ Custody Seal
☑ Containers Intact
☑ COC/Labels Agree
☐ Preservation Confirmed
☒ Received on Ice

Number	Sample Identification / Client ID	Matrix	Sample Type	Date	Time	Number of Containers	Analyses	Lab Sample Number
-001	Leachate Lagoon - SHORT 1 HCL PRESERVED AMBER LITER CONTAINER	Aqueous		10/14/24	14:06	10	624@chlorobenzene, 624@ethylbenzene, 624@toluene, 624-base-analysis, 625@benzoic-acid, 625-114, cl-300.0, cr-t-200.7, fe-t-200.7, nh3-timberline, og-t-1664, so4-300.0	01

Relinquished By: [signature] Date/Time: 10/14/24

Received By: Date/Time:

Relinquished By: Date/Time:

Received for Lab By: [signature] Date/Time: 10/14/2024/10:24 AM

Remarks:

Original - Lab Copy Yellow - Sampler Copy