

2025 ANNUAL GROUNDWATER QUALITY REPORT

FOR THE

TAMA COUNTY SANITARY LANDFILL

**86-SDP-01-72P
TAMA COUNTY, IOWA**

by:

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Certification

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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 report in the IDNR format per Special Provision 4.i. of the Revised Permit, dated May 20, 2024 (Doc #110109).

1.2 Report Priority

Review of this report is considered to be a low priority, as no requests are made of the Department. Continued semi-annual monitoring is recommended in 2026 according to IAC 567, Chapter 113.10(5) and (6), Table 1, and Table 2.

1.3 Period of Report Coverage

Water quality data evaluation is based on a running compilation of data beginning in March 26, 2008. Statistical evaluations herein are based on the 2025 water quality data collected March 6, 2025 and September 17, 2025.

1.4 Current Site Map

Figure 1 illustrates the current site features, water quality monitoring locations, and boundary locations.

1.5 Site Status and Applicable Rules

Site Location

The Tama County Sanitary Landfill is located in the NW¼ of the SW¼ and portions of the NE¼ of the SW¼ of Section 2, T83N, R15W, Tama County, Iowa. The site encompasses approximately 81 acres. The facility operates under the Iowa Department of Natural Resources (IDNR) Permit Number 86-SDP-01-72P.

Landfill Layout

The site is situated in gently rolling terrain and adjacent properties are cultivated farm ground. Drainage from the site is predominantly to the southwest along the natural topographic surface.

The facility includes a closed landfill and the RCRA Subtitle D Expansion Areas designated Phase 1 through Phase 7. Phase 1, Phase 2, and Phase 3 are constructed and are actively receiving waste from the planning area.

Applicable Rules

Iowa Administrative Code (IAC) 567-113 is applicable to the site due to the contiguous nature of the Closed Landfill and the active areas.

1.6 Summary of Hydrologic Monitoring System Plan (HMSP)

The HMSP includes twelve (12) monitoring wells and one (1) groundwater tile outlet. MW-20, MW-26, MW-33, and MW-37 are the designated background wells for the facility. The Site Plan and the approved monitoring network are illustrated on Figure 1. The current HMSP is summarized in Table 1. The HMSP Implementation Schedule for 2026 is itemized in Table 2.

MONITORING WELL MAINTENANCE PERFORMANCE REEVALUATION

Monitoring Well Performance Reevaluation for wells in both the active site and the closed site will be performed in accordance with IAC-567 113.10(2)f rather than as required under previous rule (applicable to the Closed Landfill). Table 3 outlines the status of well performance and maintenance activities performed as required by IAC 567-113.10(2) f. The monitoring wells included in the HMSP were installed at various times between 1990 and 2019.

High & Low Water Levels

Current water elevation data is included on Table 4. Historic water elevation data (2012 – 2025) is included in the Table 4A. This data is collected semi-annually at a minimum and demonstrates the recorded high and low water levels during this period. Review of the 2025 data does not indicate excessive variability compared to historic water elevation data. A Water Table Contour Map (Figure 2) dated September 2025 is included with this report. The Water Table Contour Map illustrates the water table surface and the effects of the topography and groundwater diversion in Phases 1, 2, and 3.

Well Depth & Sedimentation

Well depth measurements were made September 17, 2025. Review of the well depth data included on Table 4 indicates that well sedimentation is estimated to be less than one (1) foot at all site monitoring wells.

Well Recharge Rates & Chemistry

Monitoring well recharge evaluation is due biennially according to 113.10(2)f. The recorded field data on IDNR Form 542-1322 for the March 5, 2024 (Appendix A) sampling episode indicates that water levels within each well recover to approximately 90% in 8 hours at all wells except MW-20, MW-27, MW-35, MW-36, and MW-37. Full recovery at MW-20, MW-27, MW-35, MW-36, and MW-37 has historically required more than 24 hours.

Well recovery 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 surfaces across the site, it appears that the semi-annual water elevation data is sufficient to adequately monitor the hydrologic condition of the site. Further, the wells are interpreted to be appropriately located to detect any impact, should it occur. No changes or modifications to the existing site monitoring wells are recommended.

Section 2.0 Reporting Period Monitoring Activities

A summary of the proposed 2026 sample collection events at each well is included in Table 2. A summary of the Appendix II sample collection events at each well is included in Table 2. A comprehensive summary of all sampling episodes to date is included in Table 2A.

Field sampling information for March 6, 2025, and September 17, 2025 sampling episodes is included on the field forms (IDNR Form 542-1322) in Appendix A.

A comprehensive summary of Analytical Data for the episodes between March 26, 2008, and September 17, 2025, is included in Table 9.

2.1 Current Detection Monitoring Activities

Background wells are currently MW-20, MW-26, MW-33, and MW-37.

Downgradient monitoring wells for the site include MW-3A, MW-8, MW-10, PZ-11, MW-27, MW-34, MW-35, MW-36, and SW-3. Of the downgradient points, only SW-3 remains in detection monitoring.

2.2 Current Assessment Monitoring Activities

Assessment monitoring is on-going at MW-3A, MW-8, MW-10, MW-27, MW-34, MW-35, and MW-36. The full Appendix II sample collection events are summarized in the last 2 columns of Table 2. Four (4) full episodes of Appendix II sampling are complete at MW-8, MW-10, MW-34, and MW-35. Three (3) full episodes of Appendix II sampling are complete at MW-3A, MW-27, and MW-36. Compounds detected to date beyond the Appendix I list are limited to bis(2-ethylhexyl)phthalate at MW-3A, MW-8, MW-27, MW-34, and MW-35; dichlorodifluoromethane at MW-34 (in 2012) and MW-35; and cyanide at MW-35. Any supplemental sample collection episodes for the additional compounds at MW-3A, MW-8, MW-10, MW-27, MW-34, MW-35, and MW-36 are summarized in Appendix B.

Special Provision 4.f. of the Permit approves a reduced frequency of full Appendix II sampling (reduced to a five (5) year frequency) after two (2) annual sampling episodes have been completed.

2.3 Current Corrective Action Activities

There are no known Corrective Actions in place at this facility. The cobalt detected at MW-10 will be remedied by the construction of the Phase 4 Expansion Area. Corrective actions, along with further delineation or Assessment of Corrective Measures (ACM) Evaluations related to MW-10 are deferred until May 10, 2027, or until the plans and specifications for Phase 4 are submitted, whichever comes first. Four (4) full episodes of Appendix II sampling are complete at MW-10. No compounds beyond the Appendix I

list have been detected at MW-10. PZ-11 was added to the HMSP in order to evaluate whether vertical migration of cobalt is detected.

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 Tama County Sanitary Landfill, First Semi-Annual Monitoring Event in 2025, dated April 2025 is included in Appendix C.1. The Groundwater Statistics Report for the Tama County Sanitary Landfill, Second Semi-Annual Monitoring Event in 2025, dated October, 2025 is included in Appendix C.2.

The Keystone Analytical Reports for the laboratory testing of March 6, 2025, and September 17, 2025 sampling episodes are included in Appendix D.

QUALITY ASSURANCE/QUALITY CONTROL

A blind duplicate sample was collected at MW-33 during the March 6, 2025 sampling episode. A blind duplicate was collected at MW-10 during the September 17, 2025 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 a 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/or the duplicate results are less than five (5) times the Reporting Limit.
- b) One or both results are qualified, flagged, or estimated.
- c) One or both results are non-detected.

The results of the blind duplicate and the monitoring well results (both March 6, 2025, and September 17, 2025) are 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 # 80721). A TSS and Field Turbidity Evaluation Report was prepared and submitted on March 20, 2015 (Doc# 82761), and was approved by IDNR on October 9, 2015 (Doc #84378). The IDNR Letter dated October 14, 2016 (Doc #87401) required that all data

collected prior to the onset of “No Purge” sampling (prior to September 15, 2014) be excluded from use in the background data pool.

Both of the 2025 Groundwater Statistics Reports for the Tama County Sanitary Landfill in Appendix C include the background data utilized for the site. Upgradient Data, Table 1, Attachment B, to the Statistical Evaluation Report (Appendix C.1 and C.2) includes a summary of the background data.

A summary of the field turbidity measurements is included in Appendix E.

The calculated Prediction Limits are summarized on Table 5.

SITE SPECIFIC GWPS

Table 5 includes the comparison of the 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 Standard are highlighted in yellow in Table 5.

Site-Specific GWPS include the following:

<u>Compound</u>	<u>Site-Specific GWPS</u>	<u>IAC 137 GWPS</u>
Cobalt	2.6 ug/L	2.1 ug/L

The Site-Specific GWPS should not be set lower than the Site Prediction Limit calculated from the site background data. For this report, the value of 2.6 ug/L is utilized as the Site-Specific GWPS for Cobalt. For all other compounds the published IAC 567, Chapter 137 Statewide Standard are utilized as the GWPS. Site-Specific GWPS are included in Table 7, 8, and 10.

Note that the Statistical Evaluations prepared by Otter Creek Environmental Services for each monitoring episode use a default GWPS value equal to the Statewide Standard and do not utilize Site Specific GWPS.

STATISTICALLY SIGNIFICANT INCREASES (SSI)

The detected concentration of each compound is compared to the current site prediction limit for each respective compound calculated based on the background data set. A detected concentration for a compound that is more than the calculated site prediction limit is recorded as a Statistically Significant Increase (SSI) at detection monitoring wells.

Since the Prediction limit for VOC is set at the laboratory Method Reporting Level (MRL), any VOC detected above the MRL is recorded as an SSI. Table 6 is a summary of all compounds at site monitoring wells that have exceeded a *current* prediction limit in 2025.

The prediction limit exceedances are recorded only at wells that are included in the assessment monitoring system. Table 7 includes an on-going summary of compound detections that exceed the prediction limits (highlighted in light brown).

Exceedances of the Prediction Limit at a well that is in the Assessment Monitoring System or the Corrective Action Monitoring System is not an SSI, instead the exceedance is further evaluated by Confidence Interval Statistics.

Exceedance of the Prediction Limits for the current year is summarized on Table 1. A running summary of recorded Prediction Limit exceedances by year is included in Appendix F.

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

ASSESSMENT MONITORING SUMMARY

Assessment monitoring including the full Appendix II list has been performed at each well where a historic SSI is recorded (Table 2).

A minimum of two (2) full rounds of Appendix II assessment monitoring have been completed at MW-3A (3/23/2023), MW-8 (3/2/22), MW-10 (3/2/22), MW-27 (3/23/2023), MW-34 (3/23/2023), MW-35 (3/23/2023), and MW-36 (3/23/2023). The most recent full Appendix II sampling episode at each well is listed in parenthesis above. The full Appendix II sampling events are highlighted in green in the Tables in Appendix B.

Compounds detected to date beyond the Appendix I list are limited to bis(2-ethylhexyl)phthalate at MW-3A, MW-8, MW-27, MW-34, and MW-35; dichlorodifluoromethane at MW-34 (October 30, 2012 only), and MW-35; and cyanide at MW-35. These additional compounds were included in the semi-annual assessment monitoring at MW-3A, MW-8, MW-27, MW-34, and MW-35 for numerous episodes.

Semi-annual bis(2-ethylhexyl)phthalate sampling has been discontinued at all assessment monitoring wells. It is deemed appropriate to analyze for bis(2-ethylhexyl)phthalate on a five (5) year frequency to coincide with the full Appendix II sample collection frequency employed at the site.

Cyanide sampling was discontinued at MW-35 since it remained undetected (see Appendix B). It is deemed appropriate to analyze for cyanide on a five (5) year frequency to coincide with the full Appendix II sample collection frequency employed at the site.

Dichlorofluoromethane sampling was discontinued at all wells, except MW-35 (see Appendix B). Dichlorofluoromethane sampling continues at MW-35 on a semi-annual frequency.

Assessment monitoring is required to be repeated annually per IAC 567-113.10(6)b. However, Special Provision 4.f. of the Permit allows a reduced five (5) year frequency of full Appendix II sampling after two (2) annual sampling episodes have been completed. The next full Appendix II sampling episodes at MW-8 and MW-10 are scheduled for March of 2027. The next full

annual Appendix II sampling episodes at MW-3A, MW-27, MW-34, MW-35, and MW-36 are scheduled for March of 2028.

STATISTICALLY SIGNIFICANT LEVELS

The detections that exceed site prediction limits (see summary in Table 1 and Table 6) are utilized to calculate the Confidence Interval (the 95% lower confidence limits (LCL) and the 95% upper confidence 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 Action (ACM).

The SSL Evaluation for 2025 is based on data collected since October, 2014. 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. Any 95% LCL value that exceeds a GWPS is highlighted in yellow in Table 7, any 95% UCL value that exceeds a GWPS is highlighted in green in Table 8 and Table 10, while the SSI are highlighted in light brown on Table 7, 8, and 10.

Review of the Confidence Limit Exceedances indicates that cobalt at MW-10 is the only compound that demonstrates a 95% LCL that exceeds a GWPS. Based on these findings, MW-3A, MW-8, MW-27, MW-34, MW-35, and MW-36 remain in Assessment Monitoring.

DELINEATION & ASSESSMENT OF CORRECTIVE MEASURES (ACM)

MW-10 is classified as a Point of Compliance Corrective Action Monitoring Well in the shallow till soils. Based on the recorded SSL for cobalt at MW-10, delineation of the cobalt impact is required by rule. Further, Assessment of Corrective Measures (ACM) is also required by rule to address the SSL at MW-10.

The delineation and ACM have been deferred until May 10, 2027, or until the plans and specifications for the Phase 4 Expansion project are submitted to IDNR, whichever comes first (Doc # 89475). The deferral is based on the fact that MW-10 is an interim monitoring point located within the boundaries of the Phase 4 Expansion Area. The current soil borrowing activities in the Phase 4 Expansion Area have removed the shallow till soils and control the potential for horizontal migration of cobalt impact. PZ-11, a deeper well clustered with MW-10, does not indicate cobalt impact exceeding the GWPS and defined the vertical limits of impact. PZ-11 has been included in the HMSP as a Corrective Measures Monitoring Point. Detected cobalt concentrations at PZ-11 are summarized in the Table below.

Continued soil borrowing will further reduce the potential impact in the horizontal direction. The design of the future Phase 4 groundwater underdrain system will include remedy for any remaining impact, if any, at that time.

Monitoring Well	Compound	Date	Result (ug/L)	GWPS (ug/L)
PZ-11	Cobalt	8/24/2017	<0.8	2.8
PZ-11	Cobalt	2/26/2018	2.0	2.1
PZ-11	Cobalt	8/29/2018	<0.8	2.1
PZ-11	Cobalt	3/18/2019	<0.8	2.1
PZ-11	Cobalt	9/10/2019	<0.8	2.1
PZ-11	Cobalt	3/25/2020	1.4	2.1
PZ-11	Cobalt	9/4/2020	<0.4	2.1
PZ-11	Cobalt	9/2/2021	2.6	2.6
PZ-11	Cobalt	3/2/2022	<0.4	2.6
PZ-11	Cobalt	8/29/2022	<0.4	2.6
PZ-11	Cobalt	3/23/2023	<0.4	2.6
PZ-11	Cobalt	9/25/2023	<0.4	2.6
PZ-11	Cobalt	3/5/2024	<0.4	2.6
PZ-11	Cobalt	9/30/2024	<0.4	2.6
PZ-11	Cobalt	3/6/2025	<0.4	2.6
PZ-11	Cobalt	9/17/2025	<0.5	2.6

CORRECTIVE MEASURES MONITORING SUMMARY

The Corrective Action Monitoring System includes MW-10 (semi-annual sampling) and PZ-11 (annual sampling). A summary of the Upper Confidence Intervals for MW-10 and PZ-11 are provided below. See also Tables 8 and 10.

Upper Confidence Limit Evaluation (exceedances in green)

Monitoring Well	Compound	Date	95% LCL (ug/L)	95% UCL (ug/L)	GWPS (ug/L)
MW 10	Cobalt	3/1/2016	4.890	8.110	2.8
MW 10	Cobalt	9/9/2016	4.982	7.768	2.8
MW 10	Cobalt	3/22/2017	5.253	8.497	2.8
MW 10	Cobalt	8/24/2017	5.179	8.421	2.8
MW 10	Cobalt	2/26/2018	6.804	8.596	2.8
MW 10	Cobalt	8/29/2018	6.859	9.341	2.1
MW 10	Cobalt	3/18/2019	4.294	9.856	2.1
MW 10	Cobalt	9/10/2019	4.435	9.965	2.1
MW 10	Cobalt	3/25/2020	4.439	10.061	2.1
MW 10	Cobalt	9/4/2020	4.358	10.542	2.1
MW 10	Cobalt	3/2/2021	6.796	9.854	2.1
MW 10	Cobalt	9/2/2021	7.561	10.489	2.6
MW 10	Cobalt	3/2/2022	3.316	11.634	2.6
MW 10	Cobalt	8/29/2022	2.632	10.068	2.6
MW 10	Cobalt	3/23/2023	0.505	9.345	2.6
MW 10	Cobalt	9/25/2023	1.221	7.179	2.6
MW 10	Cobalt	3/5/2024	2.280	7.720	2.6
MW 10	Cobalt	9/30/2024	2.311	7.789	2.6
MW 10	Cobalt	3/6/2025	2.958	7.542	2.6
MW 10	Cobalt	9/17/2025	3.023	7.077	2.6

Upper Confidence Limit Evaluation (exceedances in green) - continued

Monitoring Well	Compound	Date	95% LCL (ug/L)	95% UCL (ug/L)	GWPS (ug/L)
PZ-11	Cobalt	8/24/2017	---	---	2.8
PZ-11	Cobalt	2/26/2018	---	---	2.1
PZ-11	Cobalt	8/29/2018	---	---	2.1
PZ-11	Cobalt	3/18/2019	0.107	1.493	2.1
PZ-11	Cobalt	9/10/2019	0.107	1.493	2.1
PZ-11	Cobalt	3/25/2020	0.217	1.083	2.1
PZ-11	Cobalt	9/4/2020	0.131	0.069	2.1
PZ-11	Cobalt	9/2/2021	0.197	2.103	2.6
PZ-11	Cobalt	3/2/2022	0.105	2.095	2.6
PZ-11	Cobalt	8/29/2022	0.000	1.839	2.6
PZ-11	Cobalt	3/23/2023	0.000	2.095	2.6
PZ-11	Cobalt	9/25/2023	0.200	0.200	2.6
PZ-11	Cobalt	3/5/2024	0.200	0.200	2.6
PZ-11	Cobalt	9/30/2024	0.200	0.200	2.6
PZ-11	Cobalt	3/6/2025	0.200	0.200	2.6
PZ-11	Cobalt	9/17/2025	0.200	0.200	2.6

The findings indicate that the 95% Upper Confidence Limit for cobalt at MW-10 remains above the GWPS and therefore, MW-10 should remain in the Corrective Action Monitoring System. Since MW-10 is a point of compliance well, the requirement to collect the full Appendix II sample on a five (5) year frequency applies to this well. The next full Appendix II sample collection event is required March, 2027.

Cobalt has remained below the GWPS at PZ-11 (typically is non-detected). The 95% Upper Confidence Limit for cobalt at PZ-11 therefore remains below the GWPS.

Section 4.0 Leachate Collection System Performance Evaluation

Leachate accumulating in the existing leachate storage facilities on-site is recirculated in the Phase 2 and Phase 3 disposal areas in accordance with Special Provision X.5 of the SDP Permit or is hauled to the City of Toledo Publicly Owned Treatment Works (POTW) for treatment and disposal. The Leachate Treatment Agreement with the City of Toledo, with an effective date of May 1, 2023 to April 30, 2028, is included in Appendix G.1. A total of 738,813 gallons of leachate were hauled to Toledo for treatment and disposal in 2025 (Appendix G.2). Laboratory testing results for the leachate in 2025 are included in Appendix G.3.

Leachate System Performance

Closed Original Landfill – The original landfill (Closed) is exempt from installing a leachate collection system based on the 1995 Risk Assessment as per the September 26, 1995 letter from IDNR.

A leachate cutoff tile was installed in conjunction with the Phase 1 expansion in 2007 and in conjunction with the Phase 2 expansion in 2010. The leachate cutoff consisted of the installation of geonet drainage composite and collection tile under the liner in the abutment areas constructed

in 2007 and 2010. Approximately 250 feet of east-west trending cutoff tile and approximately 250 feet of north-south cutoff tile was installed north and east of Phase 1. Approximately 230 feet of east-west cutoff tile was installed north of Phase 2. The cutoff tile drains to the Phase 1 manhole and there is combined with flow from the leachate and groundwater collection systems in Phases 1, 2, and 3 and pumped to the leachate storage lagoon.

Operating Landfill – Phase 1 is a Subtitle D compliant alternative lined area constructed in 2007. Phase 2 and Phase 3 are Subtitle D compliant composite lined areas constructed in 2010 and 2017 respectively. Leachate collected from Phases 1, 2, and 3 is stored in a 1 million gallon FML lined storage lagoon. The leachate storage lagoon was constructed with a 4' low hydraulic conductivity compacted clay liner overlain by a 60 mil HDPE FML.

The groundwater diversion system under Phase 1 and Phase 2 was connected to the leachate storage system in 2012. A pump station was installed to pump the groundwater to the Phase 1 Manhole, where it is combined with leachate and pumped to the leachate storage lagoon. The installation of the groundwater pump station was incorporated into the permit in Permit Amendment #1 dated September 11, 2012. As a result of this project, monitoring points SW-102 and SW-103 no longer exist and have been removed from the HMSP. The groundwater diversion system under Phase 3, installed in 2017, has also been connected to the groundwater pump station so no groundwater diversion system outlet was installed during the Phase 3 Expansion project.

The leachate lagoon underdrain was connected to the leachate storage system in 2016. A pump station was installed to pump the groundwater from the leachate lagoon underdrain to the leachate storage lagoon. The system was operational on July 21, 2016. Construction documentation certifying the connection was submitted to IDNR on August 25, 2016 (Doc# 87055) and was approved by IDNR in Special Provision X.3.f of the SDP Permit dated March 13, 2017. As a result of this project, monitoring point SW-101 no longer exists and has been removed from the HMSP.

Two methods of leachate recirculation are available at the Tama County SLF: a leachate transport tank to spread the leachate on the waste mass or two 4" diameter recirculation lines buried in the waste mass in Phase 2. Leachate is recirculated in Phases 2 and 3 and is not applied to frozen cover. In 2025, approximately 161,700 gallons of leachate were recirculated in Phases 2 and 3 via transport tank. No leachate was recirculated in Phase 2 via the buried leachate recirculation pipes. Dates and approximate volumes of leachate recirculation are included on the table in Appendix G.4.

As per the SDP Permit, leachate recirculation is not allowed when "head levels in the Phase 2 cell exceed 8 inches". Based on the data provided in Table 12 no leachate was recirculated when head levels in Phase 2 exceeded 8 inches.

Leachate Head Monitoring Points

One leachate head monitoring point was installed above the liner near the lowest point in Phase 1 (LPZ-102). Two leachate head monitoring points were installed in Phase 2, one near the lowest point in Phase 2 outside of the leachate pipe trench (Phase 2 East, LPZ-104) and the other in the leachate pipe trench at the elevation of the leachate collection piping (Phase 2 West, LPZ-105).

Two leachate head monitoring points were installed in Phase 3, one near the lowest point in Phase 3 outside of the leachate pipe trench (Phase 3 West, LPZ-108) and the other in the leachate pipe trench at the elevation of the leachate collection piping (Phase 3 East, LPZ-107).

LPZ-102, LPZ-104, and LPZ-108 measure leachate levels directly on the liner (as opposed to in the leachate pipe trench) and are measured monthly in accordance with the SDP Permit. Leachate head measurements are included in Table 12. All readings from LPZ-102, LPZ-104, and LPZ-108 were recorded at less than 1' in 2025.

Based on the leachate head data for 2025, no changes are recommended.

Groundwater Separation

Separation of the base of waste and the groundwater table is evaluated through observation of groundwater elevation measurements collected from groundwater piezometers UD-2 (Phase 1), UD-3 (Phase 2), and UD-4/LPZ-106 (Phase 3). Groundwater head measurements are required semiannually in accordance with the SDP Permit with the measurements included on Table 12A. Based on the groundwater head data presented on Table 12A, separation is maintained between the base of the solid waste and the groundwater surface. No changes are recommended.

Leachate Line Cleaning

IAC 567-113.7(5)b(5) requires that the leachate system be cleaned every three (3) years at a minimum. Leachate lines were cleaned on November 8, 2023. The leachate lines should be cleaned again in 2026 in accordance with IDNR regulations.

Performance Evaluation

Valves in the leachate pump station and Manhole 2 were replaced in 2025. No modifications to the leachate collection system are recommended for 2026.

Section 5.0 Gas Monitoring

Explosive gas monitoring per 113.9(2) and the approved GMSP was conducted during the 2025 reporting period. The following buildings, subsurface tiles, and subsurface monitoring points are included in the GMSP, as illustrated on the figure in Appendix H.

GMSP Points

Location	Description	Formation/Facility Monitored
Scale House -	site structure	indoor air
Scale Pit -	site structure	indoor air
Recycling Building -	site structure	indoor air
Shop Building -	site structure	indoor air
Storage Building -	site structure	indoor air
GP-1 -	dedicated probe	subsurface/vadose zone
GP-2 -	dedicated probe	subsurface/vadose zone
GP-3 -	dedicated probe	subsurface/vadose zone
GP-4 -	dedicated probe	subsurface/vadose zone
GP-5 -	dedicated probe	subsurface/vadose zone
GP-6 -	dedicated probe	subsurface/vadose zone
UD-1/SW-101 Manhole -	lagoon underdrain	subsurface/vadose zone
UD-2 -	Phase 1 GW Piezometer	subsurface/vadose zone
UD-3 -	Phase 2 GW Piezometer	subsurface/vadose zone
UD-4 (LW-106) -	Phase 3 GW Piezometer	subsurface/vadose zone
UD-5 (future) -	Phase 4 GW Piezometer	subsurface/vadose zone
SW-3/TL-1 -	North Groundwater Tile Outlet	subsurface/vadose zone
GU Manhole -	SW-102 through SW-105 Outlets	subsurface/vadose zone
MW-20	Step-Out Monitoring Point to GP-5	subsurface/vadose zone
MW-37	Step-Out Monitoring Point to GP-5	subsurface/vadose zone

The points listed above currently exist at the site with the exception of UD-5, which will be constructed as part of the Phase 4 Expansion.

Summary tables of gas monitoring are included in Table 13.

Note that the underdrain monitoring points (UD-1, UD-2, UD-3, and UD-4) are facility structures located at the interior of the site that do not exhibit any potential preferential pathways for migration. All underdrains are discharged to a common manhole outside of the waste boundary (GU Manhole), where gas monitoring confirms that gas passively discharges from the underdrains system. Readings at the UD that exceed the LEL are not considered to be in excess of any applicable limit.

Explosive gas concentrations were undetected or below actionable levels during the monitoring episodes in 2025, except at GP-5 on March 6, 2025. The gas concentrations at GP-5 was recorded to be greater than the Lower Explosive Limit (LEL) on March 6, 2025. GP-5 is located along the waste boundary well within the facility property line. Rule (113.9(2))a”(2)) dictates that the gas concentration should not exceed the LEL at the facility property boundary.

In response to the finding at GP-5, HLW returned to the site on March 13, 2025 to perform supplemental gas monitoring at points along the property line. Recorded gas concentrations confirmed that the elevated gas concentrations recorded at GP-5 did not extend to monitoring points (MW-20 and MW-37) located nearer to the facility property boundary. There was therefore no requirement to perform additional tasks or immediately report the findings recorded GP-5.

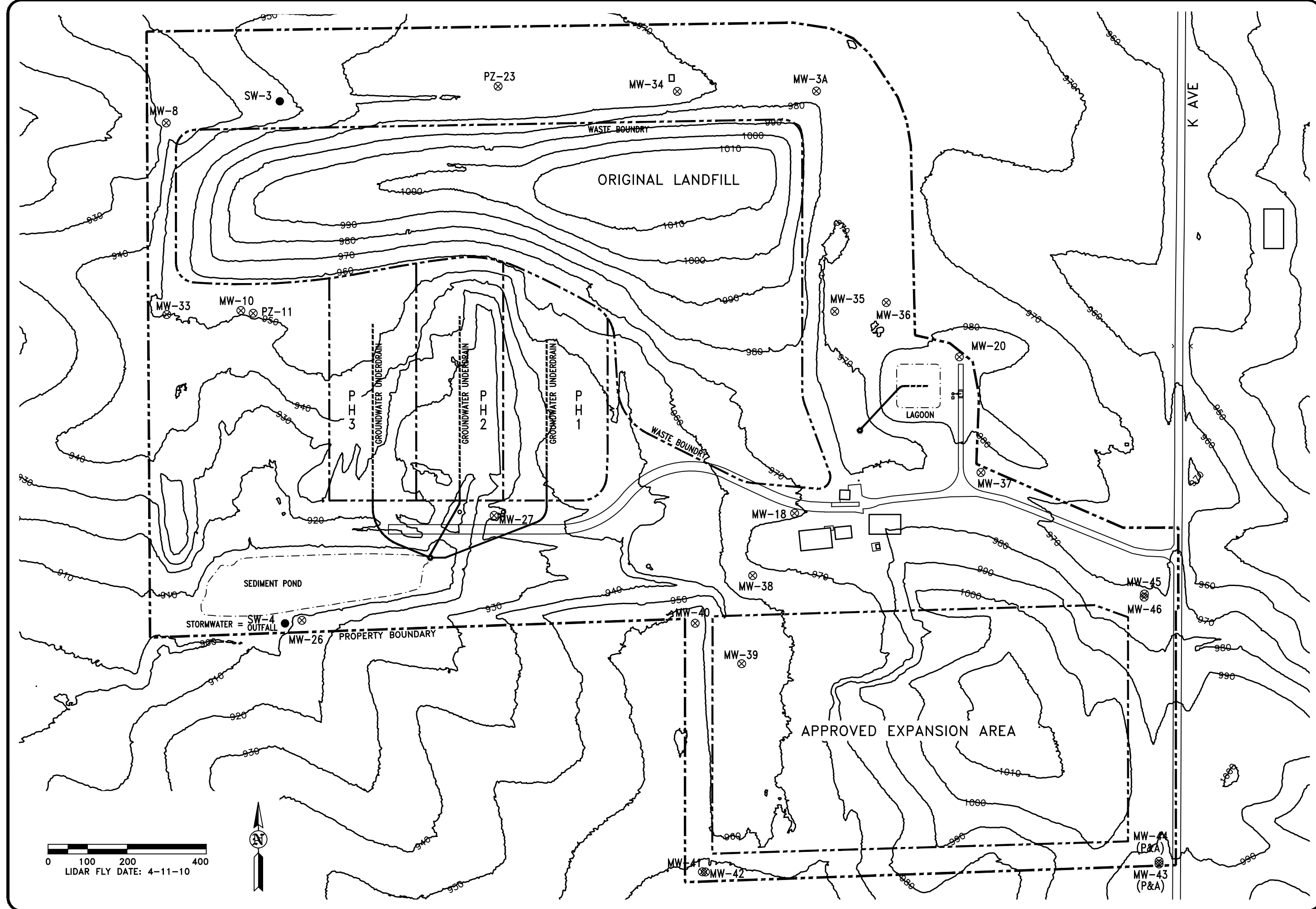
MW-20 and MW-37 have continued to be included in the quarterly monitoring as supplemental monitoring data. The conditions in GP-5 where gas concentrations were recorded above 100% LEL were not recorded again in 2025.

Section 6.0 Recommendations/Requests

Continued monitoring in accordance with IAC 567, Chapter 113.10 is recommended for this facility.

- 1) Continue Detection Monitoring at SW-3.
- 2) Continue Assessment Monitoring at MW-3A, MW-8, MW-27, MW-34, MW-35, and MW-36 according to the approved Permit Amendments.
- 3) Continue Corrective Action Monitoring at MW-10 (semi-annually) and at PZ-11 (annually) according to the approved Permit Amendments.
- 4) Continue to include MW-20 and MW-37 in the GMSP in 2026.

Figures





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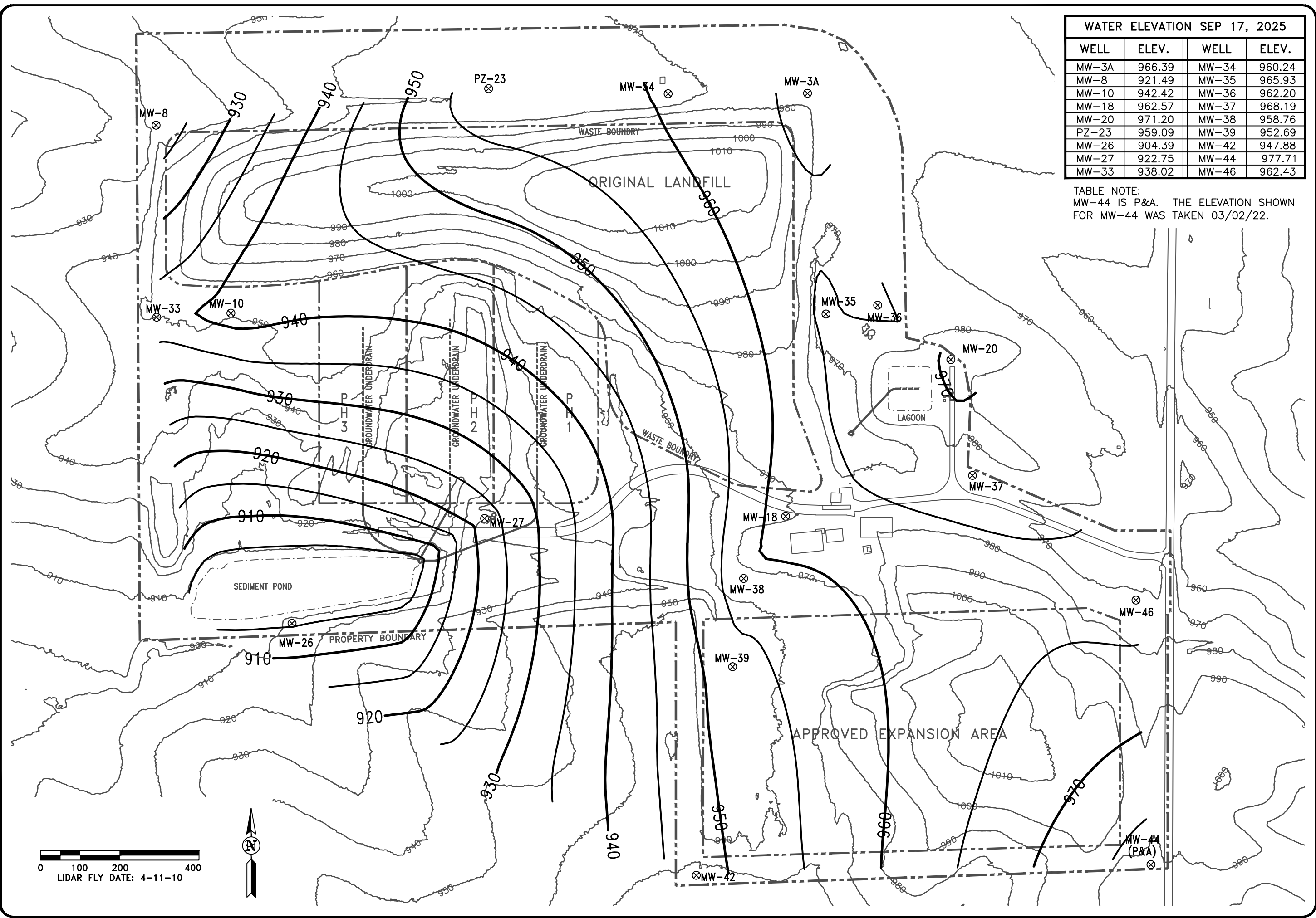
FIGURE: 1

SITE PLAN

TAMA COUNTY SANITARY LANDFILL

TOLEDO, IOWA

REVISION	NO.	DATE
DRAWN	6000	PROJECT NO.
DRA		DATE
		10-4-25



HLW Engineering Group
204 West Broad Street, P.O. Box 314
Story City, Iowa 50248
Phone: (515) 733-4144
FAX: (515) 733-4146

GROUNDWATER CONTOURS

TAMA COUNTY SANITARY LANDFILL
TOLEDO, IOWA

FIGURE: 2

REVISION NO. DATE
DRAWN PROJECT NO. DATE
DRA 6000 10-4-25

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Table 1 – Monitoring Program Summary

Table 1
Monitoring Program Summary
Annual Water Quality Report
Tama County Sanitary Landfill
Permit No. 86-SDP-01-72P

Monitoring Well	Formation	Current Monitoring Program	Change for next sampling event	Historic - Constituents w/ SSI	Spring 2025 - Constituents w/ SSI	Fall 2025 - Constituents w/ SSI	Historic - Constituents w/ SSL	Spring 2025 - Constituents w/ SSL	Fall 2025 - Constituents w/ SSL	Total # of Samples in each monitoring program since March 20, 2014		
										Detection	Assessment	Corrective Action
MW-20(up)	Glacial Till	Background	NC	None	None	None	None	None	None	25	0	0
MW-26(up)	Glacial Till	Background	NC	None	None	None	None	None	None	25	0	0
MW-37(up)	Glacial Till	Background	NC	None	None	None	None	None	None	23	0	0
MW-33 (up)	Glacial Till	Background	NC	None	None	None	None	None	None	25	0	0
MW-3A	Glacial Till	Assessment	NC	arsenic, barium, cobalt, nickel, bis(2EH)P	None	arsenic, nickel	None	None	None	0	21	0
MW-8	Glacial Till	Assessment	NC	barium, cobalt, nickel, zinc, bis(2EH)P	nickel	barium, nickel	None	None	None	0	20	0
MW-10	Glacial Till	Assessment	NC	arsenic, barium, cadmium, cobalt, copper, nickel, zinc, 1,4-dichlorobenzene, chlorobenzene	barium, nickel	barium, cobalt, nickel	Cobalt	Cobalt	Cobalt	0	20	0
PZ-11	Glacial Till	Step-Out to MW-10	NC	None	None	None	None	None	None	0	16	0
MW-27	Glacial Till	Assessment	NC	None	None	None	None	None	None	0	21	0
MW-34	Glacial Till	Assessment	NC	arsenic, barium, cobalt, nickel, bis(2EH)P, 1,4-dichlorobenzene, benzene, chlorobenzene, chloroethane	None	cobalt, nickel, 1,4-dichlorobenzene, chlorobenzene	None	None	None	0	21	0
MW-35	Glacial Till	Assessment	NC	barium, cobalt, nickel, dichlorodifluoromethane, 1,1-dichloroethane, bis(2EH)P	barium	barium, dichlorodifluoromethane	None	None	None	0	20	0
MW-36	Glacial Till	Assessment	NC	barium, cadmium, cobalt, copper, TCE	barium	barium	None	None	None	0	21	0
SW-3	Glacial Till	Detection	NC	None	None	None	None	None	None	7	0	0

bis(2EH)P = bis(2-ethylhexyl)phthalate
= ACM is deferred until May, 2027 (doc #89475)

Table 2 – Monitoring Program Implementation Schedule

Table 2
Monitoring Program Implementation Schedule
Annual Water Quality Report
Tama County Sanitary Landfill
Permit No. 86-SDP-01-72P

Monitoring Well	Recent Sampling Dates and Constituents	Upcoming Sampling Dates and Constituents		Full Appendix II Sample Dates	
		March, 2026	September, 2026	Previously Collected	Next Event
MW-20(up)		Appendix I	Appendix I		N/A
MW-26(up)		Appendix I	Appendix I		N/A
MW-37(up)		Appendix I	Appendix I		N/A
MW-33 (up)		Appendix I	Appendix I		N/A
MW-3A		Appendix I	Appendix I	3/22/17, 2/26/18, 3/23/23	3/2028
MW-8	See Table 2A	Appendix I	Appendix I	3/29/11, 3/8/12, 3/22/17, 3/2/22	3/2027
MW-10		Appendix I	Appendix I	7/26/10, 3/8/12, 3/22/17, 3/2/22	3/2027
MW-11		cobalt	cobalt		
MW-27		Appendix I	Appendix I	3/22/17, 2/26/18, 3/23/23	3/2028
MW-34		Appendix I	Appendix I	10/3/12, 3/26/13, 2/26/18, 3/23/23	3/2028
MW-35		Appendix I ⁽¹⁾	Appendix I ⁽²⁾	10/3/12, 3/26/13, 2/26/18, 3/23/23	3/2028
MW-36		Appendix I	Appendix I	3/22/17, 2/26/18, 3/23/23	3/2028
SW-3		Appendix I	Appendix I		N/A

⁽¹⁾ = bis(2-ethylhexyl)phthalate

⁽²⁾ =dichlorodifluoromethane

Table 2A – Summary of Monitoring to Date

Table 2A - Itemized Summary of Hydrologic Monitoring (to date)

<u>WELL</u>	<u>3/26/08</u>	<u>5/6/08</u>	<u>7/23/08</u>	<u>9/30/08</u>	<u>12/2/08</u>
MW-20 (b)	Appendix I	Appendix I	Appendix I	Appendix I	Appendix I
MW-26 (b)	Appendix I	Appendix I	Appendix I	Appendix I	Appendix I
MW-3A					
MW-8	Appendix I	Appendix I	Appendix I	Appendix I	Appendix I
MW-10	Appendix I	Appendix I	Appendix I	Appendix I	Appendix I
MW-27					
MW-33					
MW-34					
MW-35					
MW-36					
SW-3	Appendix I	Appendix I	Appendix I	Dry	Dry
SW-101	Appendix I	Appendix I	Appendix I	Appendix I	Appendix I
<u>WELL</u>	<u>3/5/09</u>	<u>9/1/09</u>	<u>3/23/10</u>	<u>7/26/10</u>	<u>9/9/10</u>
MW-20 (b)	Appendix I	Appendix I	Appendix I		Appendix I
MW-26 (b)	Appendix I	Appendix I	Appendix I		Appendix I
MW-3A					
MW-8	Appendix I	Appendix I	Appendix I		Appendix I
MW-10	Appendix I	Appendix I	Appendix I	Appendix II	Appendix I
MW-27					
MW-33					
MW-34					
MW-35					
MW-36					
SW-3	Dry	Appendix I	Appendix I		Appendix I
SW-101	Appendix I	Appendix I	Appendix I		Appendix I
<u>WELL</u>	<u>3/29/11</u>	<u>5/4/11</u>	<u>5/11/11</u>	<u>9/13/11</u>	<u>3/8/12</u>
MW-20 (b)	Appendix I			Appendix I	Appendix I
MW-26 (b)	Appendix I			Appendix I	Appendix I
MW-3A	Appendix I			Appendix I	Appendix I
MW-8	Appendix II			Appendix I	Appendix II
MW-10	Appendix I			Appendix I	Appendix II
MW-27	Appendix I			Appendix I	Appendix I
MW-33	Appendix I			Appendix I	Appendix I
MW-34	Appendix I	Verification		Appendix I	Appendix I
MW-35	Appendix I	Verification		Appendix I	Appendix I
MW-36			Appendix I	Appendix I	Appendix I
SW-3	Appendix I	Verification		Dry	Dry
SW-101	Appendix I	Verification		Appendix I	Appendix I

<u>WELL</u>	<u>7/5/12</u>	<u>9/11/12</u>	<u>10/30/12</u>	<u>3/26/13</u>	<u>5/17/13</u>
MW-20 (b)		Appendix I		Dry	
MW-26 (b)		Appendix I		Appendix I	
MW-3A	Appendix I	Dry		Appendix I	
MW-8		Appendix I		Appendix I ⁽¹⁾	Note ⁽¹⁾
MW-10		Appendix I		Appendix I ⁽³⁾	
MW-27	Appendix I	Appendix I		Appendix I	
MW-33	Appendix I	Appendix I		Appendix I	
MW-34	Appendix I	Appendix I	Appendix II	Appendix II	
MW-35	Appendix I	Appendix I	Appendix II	Appendix II	Note ^(1,2)
MW-36		Appendix I		Appendix I	
SW-3		Dry		Appendix I	
SW-101		Appendix I		Dry	
Duplicate		At MW-10		At SW-3	

<u>WELL</u>	<u>7/9/13</u>	<u>9/25/13</u>	<u>11/27/13</u>	<u>3/19/14</u>	<u>4/9/14</u>
MW-20 (b)		Appendix I		Appendix I	
MW-26 (b)		Appendix I		Appendix I	
MW-37 (b)		Appendix I		Appendix I	
MW-3A		Appendix I	Verification*	Verification	Appendix I
MW-8		Appendix I ⁽¹⁾		Appendix I ⁽¹⁾	
MW-10		Appendix I ⁽³⁾		Appendix I ⁽³⁾	
MW-27		Appendix I		Appendix I	
MW-33		Appendix I		Appendix I	
MW-34		Appendix I ^(1,2)		Appendix I ^(1,2)	
MW-35	Note ^(1,2)	Appendix I ^(1,2)		Appendix I ^(1,2)	
MW-36		Appendix I		Appendix I	
SW-3		Dry		Appendix I	
SW-101		Appendix I		Appendix I	
Duplicate		At MW-36		AT MW-34	

(1) = bis(2-ethylhexyl)phthalate

(2) = dichlorodifluoromethane

(3) = no compounds beyond Appendix I list

* = well was dry during verification re-sample attempt. See 12-4-13 email.

<u>WELL</u>	<u>8/20/14</u>	<u>9/15/14</u>	<u>1/14/15</u>	<u>3/6/15</u>	<u>6/16/15</u>	<u>8/24/15</u>
MW-20 (b)		Appendix I + TSS	Appendix I	Appendix I	Appendix I	Appendix I
MW-26 (b)		Appendix I + TSS	Appendix I	Appendix I	Appendix I	Appendix I
MW-37 (b)		Appendix I + TSS	Appendix I	Appendix I	Appendix I	Appendix I
MW-3A		Appendix I + TSS		Appendix I		Appendix I
MW-8		Appendix I ⁽¹⁾ + TSS		Appendix I ⁽¹⁾		Appendix I ⁽¹⁾
MW-10		Appendix I ⁽³⁾ + TSS		Appendix I ⁽³⁾		Appendix I ⁽³⁾
MW-27		Appendix I + TSS		Appendix I		Appendix I
MW-33		Appendix I + TSS		Appendix I		Appendix I
MW-34	(1,2)	Appendix I ^(1,2) + TSS		Appendix I ^(1,2)		Appendix I ^(1,2)
MW-35		Appendix I ^(1,2) + TSS		Appendix I ^(1,2)		Appendix I ^(1,2)
MW-36		Appendix I + TSS	(R)- cd	Appendix I		Appendix I
SW-3		Appendix I + TSS		Appendix I		Appendix I
SW-101		Appendix I + TSS	(R) - co + ni	Appendix I		Appendix I
Duplicate		At MW-33		At MW-26		At MW-33

<u>WELL</u>	<u>3/1/16</u>	<u>9/9/16</u>	<u>10/31/16</u>	<u>1/27/17</u>
MW-20 (b)	Appendix I	Appendix I		
MW-26 (b)	Appendix I	Appendix I		
MW-37 (b)	Appendix I	Appendix I		
MW-3A	Appendix I	Appendix I	(R) - As + Ba	
MW-8	Appendix I ⁽¹⁾	Appendix I ⁽¹⁾	(R) - Co + Ni	
MW-10	Appendix I ⁽³⁾	Appendix I ⁽³⁾		
MW-27	Appendix I	Appendix I		(R) - Ba
MW-33	Appendix I	Appendix I		
MW-34	Appendix I ^(1,2)	Appendix I ^(1,2)		
MW-35	Appendix I ^(1,2)	Appendix I ^(1,2)		
MW-36	Appendix I	Appendix I		(R) - Ba
SW-3	Appendix I	Appendix I		
Duplicate	At MW-20	At MW-33		

(1) = bis(2-ethylhexyl)phthalate

(2) = dichlorodifluoromethane

(3) = no compounds beyond Appendix I list

(R) = Resample

<u>Well</u>	<u>3/22/17</u>	<u>6/7/17</u>	<u>8/24/17</u>	<u>11/15/17</u>
MW-20 (b)	Appendix I		Appendix I	
MW-26 (b)	Appendix I		Appendix I	
MW-37 (b)	Appendix I		Appendix I	
MW-33 (b)	Appendix I	(R) - Ba	Appendix I	
MW-3A	Appendix II		Appendix I ⁽³⁾	(R) – As+Ba
MW-8	Appendix II		Appendix I ⁽¹⁾	
MW-10	Appendix II		Appendix I ⁽³⁾	
MW-11	N/A		Cobalt	
MW-27	Appendix II		Appendix I ⁽³⁾	
MW-34	Appendix I ^(1,2)		Appendix I ^(1,2)	(R) - Co
MW-35	Appendix I ^(1,2)		Appendix I ^(1,2)	
MW-36	Appendix II		Appendix I ⁽³⁾	
SW-3	Appendix I		Appendix I	
Duplicate	At MW-36		At MW-37	

<u>WELL</u>	<u>2/26/18</u>	<u>8/29/2018</u>	<u>3/18/2019</u>	<u>9/10/2019</u>
MW-20 (b)	Appendix I	Appendix I	Appendix I	Appendix I
MW-26 (b)	Appendix I	Appendix I	Appendix I	Appendix I
MW-37 (b)	Appendix I	Appendix I	Appendix I	Appendix I
MW-33 (b)	Appendix I	Appendix I	Appendix I	Appendix I
MW-3A	Appendix II	Appendix I ⁽¹⁾	Appendix I ⁽¹⁾	Appendix I ⁽¹⁾
MW-8	Appendix I ⁽¹⁾	Appendix I ⁽¹⁾	Appendix I ⁽¹⁾	Appendix I ⁽¹⁾
MW-10	Appendix I	Appendix I ⁽³⁾	Appendix I ⁽³⁾	Appendix I ⁽³⁾
MW-11	Cobalt	Cobalt	Cobalt	Cobalt
MW-27	Appendix II	Appendix I ⁽¹⁾	Appendix I ⁽¹⁾	Appendix I ⁽¹⁾
MW-34	Appendix II	Appendix I ^(1,2)	Appendix I ^(1,2)	Appendix I ^(1,2)
MW-35	Appendix II	Appendix I ^(1,2,4)	Appendix I ^(1,2,4)	Appendix I ^(1,2,4)
MW-36	Appendix II	Appendix I ⁽³⁾	Appendix I ⁽³⁾	Appendix I ⁽³⁾
SW-3	Appendix I	Appendix I	Appendix I	Appendix I
Duplicate	At MW-8	At MW-20	At MW-37	At MW-20

(1) = bis(2-ethylhexyl)phthalate

(2) = dichlorodifluoromethane

(3) = no compounds beyond Appendix I list

(4) = cyanide

(R) = Resample

<u>WELL</u>	<u>3/25/2020</u>	<u>9/4/2020</u>	<u>3/2/2021</u>	<u>9/2/2021</u>	<u>3/2/2022</u>	<u>8/29/22</u>
MW-20 (b)	Appendix I	Appendix I	Appendix I	Appendix I	Appendix I	Appendix I
MW-26 (b)	Appendix I	Appendix I	Appendix I	Appendix I	Appendix I	Appendix I
MW-37 (b)	Appendix I	Appendix I	Appendix I	Appendix I	Appendix I	Appendix I
MW-33 (b)	Appendix I	Appendix I	Appendix I	Appendix I	Appendix I	Appendix I
MW-3A	Appendix I ⁽¹⁾	Appendix I ⁽¹⁾	Appendix I ⁽¹⁾	Appendix I	Appendix I ⁽¹⁾	Appendix I
MW-8	Appendix I ⁽¹⁾	Appendix I ⁽¹⁾	Appendix I ⁽¹⁾	Appendix I	Appendix II	Appendix I
MW-10	Appendix I ⁽³⁾	Appendix I ⁽³⁾	Appendix I ⁽³⁾	Appendix I	Appendix II	Appendix I
MW-11	Cobalt	Cobalt	NT	Cobalt	Cobalt	Cobalt
MW-27	Appendix I ⁽¹⁾	Appendix I ⁽¹⁾	Appendix I ⁽¹⁾	Appendix I	Appendix I ⁽¹⁾	Appendix I
MW-34	Appendix I ⁽¹⁾	Appendix I ⁽¹⁾	Appendix I ⁽¹⁾	Appendix I	Appendix I ⁽¹⁾	Appendix I ⁽¹⁾
MW-35	Appendix I ^(1,2,4)	Appendix I ^(1,2,4)	Appendix I ^(1,2,4)	Appendix I ⁽²⁾	Appendix I ^(1,2,4)	Appendix I ⁽²⁾
MW-36	Appendix I ⁽³⁾	Appendix I ⁽³⁾	Appendix I ⁽³⁾	Appendix I	Appendix I	Appendix I
SW-3	Appendix I	Appendix I	Dry	Dry	Dry	Dry
Duplicate	At MW-33	At MW-10	At MW-8	At MW-36	At MW-37	At MW-36

<u>WELL</u>	<u>3/23/2023</u>	<u>9/25/2023</u>	<u>3/5/2024</u>	<u>9/30/2024</u>	<u>3/6/2025</u>	<u>9/17/2025</u>
MW-20 (b)	Appendix I	Appendix I	Appendix I	Appendix I	Appendix I	Appendix I
MW-26 (b)	Appendix I	Appendix I	Appendix I	Appendix I	Appendix I	Appendix I
MW-37 (b)	Appendix I	Appendix I	Appendix I	Appendix I	Appendix I	Appendix I
MW-33 (b)	Appendix I	Appendix I	Appendix I	Appendix I	Appendix I	Appendix I
MW-3A	Appendix II	Appendix I ⁽¹⁾	Appendix I ⁽¹⁾	Appendix I	Appendix I	Appendix I
MW-8	Appendix I	Appendix I	Appendix I	Appendix I	Appendix I	Appendix I
MW-10	Appendix I	Appendix I	Appendix I	Appendix I	Appendix I	Appendix I
MW-11	Cobalt	Cobalt	Cobalt	Cobalt	Cobalt	Cobalt
MW-27	Appendix II	Appendix I ⁽³⁾	Appendix I	Appendix I	Appendix I	Appendix I
MW-34	Appendix II	Appendix I ⁽³⁾	Appendix I	Appendix I	Appendix I	Appendix I
MW-35	Appendix II	Appendix I ⁽²⁾	Appendix I ⁽²⁾	Appendix I ⁽²⁾	Appendix I ⁽²⁾	Appendix I ⁽²⁾
MW-36	Appendix II	Appendix I ⁽³⁾	Appendix I	Appendix I	Appendix I	Appendix I
SW-3	Appendix I	Appendix I	Appendix I	Appendix I	Appendix I	Appendix I
Duplicate	At MW-33	At MW-36	At MW-8	At MW-8	At MW-33	At MW-10

(1) = bis(2-ethylhexyl)phthalate

(2) = dichlorodifluoromethane

(3) = no compounds beyond Appendix I list

(4) = cyanide

(R) = Resample

Table 3 – Monitoring Well Maintenance Performance Reevaluation
Schedule

Table 3
Monitoring Well Maintenance and Performance Revaluation Schedule
Annual Water Quality Report
Tama County Sanitary Landfill
Permit No.86-SDP-01-72P

Compliance with:	Monitoring Calendar Years									
	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
567 IAC 113.10(2)"f"(1) high and low water levels (biennial)	X		X	X		X		X		X
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
567 IAC 113.10(2)"f"(3) well depths (annual)	X	X	X	X	X	X	X	X	X	X
567 IAC 113.10(2)"f"(4) well recharge rates and chemistry (biennial)						X		X		X
Waste separation from ground water 113.6(2)"l"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Compliance with:	Monitoring Calendar Years									
	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
567 IAC 113.10(2)"f"(1) high and low water levels (biennial)	X	X	X	X	X	X	X	X	X	X
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		X	
567 IAC 113.10(2)"f"(3) well depths (annual)	X	X	X	X	X	X	X	X	X	X
567 IAC 113.10(2)"f"(4) well recharge rates and chemistry (biennial)	X		X		X		X		X	
Waste separation from ground water 113.6(2)"l"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Compliance with:	Monitoring Calendar Years									
	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033
567 IAC 113.10(2)"f"(1) high and low water levels (biennial)	X	X	P	P	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		P		P		P		P	
567 IAC 113.10(2)"f"(3) well depths (annual)	X	X	P	P	P	P	P	P	P	P
567 IAC 113.10(2)"f"(4) well recharge rates and chemistry (biennial)	X		P		P		P		P	
Waste separation from ground water 113.6(2)"l"	2X	2X	2P	2P	2P	2P	2P	2P	2P	2P

X = completed

P = Planned

N/A = Not Applicable

Table 4 – Monitoring Well Maintenance Performance Reevaluation
Summary

Table 4
Monitoring Well Maintenance and Performance Summary
Annual Water Quality Report
Tama County Sanitary Landfill
Permit No.86-SDP-01-72P

Well	Top of casing	Top of Screen	Total Depth		Date of Measurements		Maximum Depth Discrepancy (ft)	Hydraulic Cond. (cm/sec)/date	Most Recent Recharge Rate	
					3/6/2025	9/17/2025			3/5/2024	Change
MW-20	987.91	971.94	25.97	Groundwater Level (ft)	22.11	16.71	0.07	0.000004 1991	Too Dry	None perceived
				Groundwater Elevation (Ft MSL)	965.8	971.2				
				Measured Well Depth (ft)	25.9	25.9				
				Submerged (+) or Exposed screen (-)	-6.14	-0.74				
MW-26	914.95	904.61	20.34	Groundwater Level (ft)	10.17	10.56	0.44	0.00001 2005	Full recovery in 6 hour	None perceived
				Groundwater Elevation (Ft MSL)	904.78	904.39				
				Measured Well Depth (ft)	19.9	19.9				
				Submerged (+) or Exposed screen (-)	0.17	-0.22				
MW-37	978.74	968.09	20.65	Groundwater Level (ft)	13.62	10.55	0.45	0.0000112 2013	Full recovery in 24 hour	None percieved
				Groundwater Elevation (Ft MSL)	965.12	968.19				
				Measured Well Depth (ft)	20.2	20.2				
				Submerged (+) or Exposed screen (-)	-2.97	0.1				
MW-33	950.02	937.15	22.27	Groundwater Level (ft)	14.7	12	0.67	pending	Full recovery in 4 hour	None perceived
				Groundwater Elevation (Ft MSL)	935.32	938.02				
				Measured Well Depth (ft)	21.6	21.6				
				Submerged (+) or Exposed screen (-)	-1.83	0.87				
MW-3A	976	968.44	17.56	Groundwater Level (ft)	11.79	9.61	0.16	pending	Full recovery in 8 hour	None perceived
				Groundwater Elevation (Ft MSL)	964.21	966.39				
				Measured Well Depth (ft)	17.4	17.4				
				Submerged (+) or Exposed screen (-)	-4.23	-2.05				
MW-8	932.21	922.2	20.01	Groundwater Level (ft)	10.15	10.72	0.11	0.00006 1991	Full recovery in 8 hour	None perceived
				Groundwater Elevation (Ft MSL)	922.06	921.49				
				Measured Well Depth (ft)	19.9	19.9				
				Submerged (+) or Exposed screen (-)	-0.14	-0.71				
MW-10	952.96	943.04	19.92	Groundwater Level (ft)	14.4	10.54	0.02	0.0005 1991	Full recovery in 8 hour	None perceived
				Groundwater Elevation (Ft MSL)	938.56	942.42				
				Measured Well Depth (ft)	19.9	19.9				
				Submerged (+) or Exposed screen (-)	-4.48	-0.62				
MW-27	932.89	915.2	27.69	Groundwater Level (ft)	14.19	10.14	0.19	pending	Full recovery in 24 hour	None perceived
				Groundwater Elevation (Ft MSL)	918.7	922.75				
				Measured Well Depth (ft)	27.5	27.5				
				Submerged (+) or Exposed screen (-)	3.5	7.55				
MW-34	969.61	961.92	17.69	Groundwater Level (ft)	7.49	9.37	0.29	pending	Full recovery in 8 hour	None perceived
				Groundwater Elevation (Ft MSL)	962.12	960.24				
				Measured Well Depth (ft)	17.4	17.4				
				Submerged (+) or Exposed screen (-)	0.2	-1.68				
MW-35	974.02	961.03	22.99	Groundwater Level (ft)	7	5.09	0.49	pending	Full recovery in 24 hour	None perceived
				Groundwater Elevation (Ft MSL)	967.02	968.93				
				Measured Well Depth (ft)	22.5	22.5				
				Submerged (+) or Exposed screen (-)	5.99	7.9				
MW-36	977.15	959.26	27.89	Groundwater Level (ft)	15.07	14.95	0.74	pending	Full recovery in 24 hour	None perceived
				Groundwater Elevation (Ft MSL)	962.08	962.2				
				Measured Well Depth (ft)	27.15	27.15				
				Submerged (+) or Exposed screen (-)	2.82	2.94				

Groundwater Underdrain Piezometer

Well	Date of Measurements	
	See Table 12A	

Table 4A – Historic Water Elevation Monitoring Summary

Table 4A
Water Elevation Data
Tama County Sanitary Landfill
86-SDP-1-72P

Well/TOC	MW-3A 976		MW-8 932.21		MW-10 952.96		MW-18 967.69		MW-20 987.91		PZ-23 963.9	
	Water Depth	Water Elevation	Water Depth	Water Elevation	Water Depth	Water Elevation	Water Depth	Water Elevation	Water Depth	Water Elevation	Water Depth	Water Elevation
03/28/12	11.93	964.07	8.40	923.81	7.79	945.17	6.91	960.78	8.65	979.26	6.68	957.22
07/05/12	12.86	963.14	10.44	921.77	12.87	940.09	7.25	960.44	19.03	968.88	11.21	952.69
09/11/12			13.50	918.71	15.75	937.21	8.72	958.97	23.56	964.35	13.85	950.05
10/30/12			14.38	917.83	17.21	935.75	9.98	957.71	24.01	963.90	14.51	949.39
03/26/13	10.35	965.65	5.60	926.61	13.30	939.66			25.97	961.94	4.65	959.25
05/17/13			3.50	928.71								
07/09/13			8.40	923.81								
09/25/13	15.42	960.58	13.15	919.06	13.60	939.36	7.75	959.94	19.50	968.41	12.90	951.00
11/26/13	16.50	959.50										
03/19/14	10.80	965.20	11.10	921.11	14.20	938.76		967.69	23.90	964.01	6.60	957.30
09/15/14	4.15	971.85	4.10	928.11	9.05	943.91	5.15	962.54	15.30	972.61	4.15	959.75
03/06/15	6.80	969.20	9.25	922.96	11.70	941.26	7.30	960.39	19.95	967.96	4.30	959.60
08/24/15	6.73	969.27	7.86	924.35	9.90	943.06	5.70	961.99	15.20	972.71	4.50	959.40
03/01/16	4.15	971.85	4.00	928.21	9.92	943.04	5.31	962.38	16.57	971.34	4.27	959.63
09/09/16	12.13	963.87	13.30	918.91	14.70	938.26	7.15	960.54	19.95	967.96	9.80	954.10
03/22/17	6.82	969.18	4.85	927.36	10.40	942.56	6.35	961.34	18.90	969.01	4.60	959.30
08/24/17	13.07	962.93	13.26	918.95	14.10	938.86	7.41	960.28	20.00	967.91	11.33	952.57
02/26/18	10.86	965.14	10.65	921.56	13.80	939.16	8.28	959.41	23.55	964.36	9.73	954.17
08/29/18	12.96	963.04	11.28	920.93	11.76	941.20	6.73	960.96	18.00	969.91	8.50	955.40
03/18/19	2.95	973.05	3.35	928.86	5.57	947.39	5.40	962.29	14.88	973.03	3.19	960.71
09/10/19	10.05	965.95	11.80	920.41	12.61	940.35	6.70	960.99	18.28	969.63	8.75	955.15
03/25/20	3.45	972.55	3.45	928.76	6.53	946.43	4.80	962.89	15.02	972.89	4.13	959.77
09/04/20	10.17	965.83	11.90	920.31	12.71	940.25	6.25	961.44	19.00	968.91	8.52	955.38
03/02/21	8.00	968.00	7.26	924.95	8.60	944.36	6.15	961.54	19.68	968.23	4.69	959.21
09/02/21	10.84	965.16	13.00	919.21	13.83	939.13	6.70	960.99	20.72	967.19	9.40	954.50
03/02/22	10.79	965.21	10.58	921.63	13.82	939.14	7.70	959.99	23.00	964.91	8.77	955.13
08/29/22	11.42	964.58	12.62	919.59	12.75	940.21	6.61	961.08	19.87	968.04	10.25	953.65
03/23/23	9.26	966.74	7.01	925.20	9.60	943.36	5.61	962.08	21.68	966.23	5.40	958.50
09/25/23	16.83	959.17	14.38	917.83	15.27	937.69	7.70	959.99	23.48	964.43	13.69	950.21
03/05/24	15.10	960.90	12.49	919.72	10.95	942.01			23.68	964.23		
09/30/24	14.05	961.95	11.67	920.54	13.71	939.25	6.20	961.49	18.97	968.94	10.13	953.77
03/06/25	11.79	964.21	10.15	922.06	14.40	938.56	7.16	960.53	22.11	965.80	9.40	954.50
09/17/25	9.61	966.39	10.72	921.49	10.54	942.42	5.12	962.57	16.71	971.20	4.81	959.09
minimum	2.95	959.17	3.35	917.83	5.57	935.75	4.80	957.71	8.65	961.94	3.19	949.39
maximum	16.83	973.05	14.38	928.86	17.21	947.39	9.98	967.69	25.97	979.26	14.51	960.71

Table 4A
Water Elevation Da
Tama County Sanit
86-SDP-1-72P

Well/TOC	MW-26 914.95		MW-27 932.89		MW-33 950.02		MW-34 969.61		MW-35 974.02		MW-36 977.15	
	Water Depth	Water Elevation	Water Depth	Water Elevation	Water Depth	Water Elevation	Water Depth	Water Elevation	Water Depth	Water Elevation	Water Depth	Water Elevation
03/28/12	8.65	906.30	14.89	918.00	10.19	939.83	6.44	963.17	12.21	961.81	15.05	962.10
07/05/12	9.52	905.43	11.53	921.36	13.18	936.84	11.20	958.41	13.21	960.81	16.62	960.53
09/11/12	13.88	901.07	10.48	922.41	15.41	934.61	13.98	955.63	16.32	957.70	19.28	957.87
10/30/12	14.52	900.43	10.85	922.04	15.99	934.03	15.03	954.58	18.32	955.70	19.71	957.44
03/26/13	7.60	907.35	14.25	918.64	7.90	942.12	8.50	961.11	8.50	965.52	18.45	958.70
05/17/13									6.10	967.92		
07/09/13									8.40	965.62		
09/25/13	13.40	901.55	10.58	922.31	14.50	935.52	15.40	954.21	15.40	958.62	17.75	959.40
11/26/13												
03/19/14	10.10	904.85	15.20	917.69	9.60	940.42	6.30	963.31	11.50	962.52	18.40	958.75
09/15/14	6.70	908.25	11.70	921.19	7.25	942.77	4.20	965.41	7.30	966.72	11.10	966.05
03/06/15	10.60	904.35	15.90	916.99	12.90	937.12	7.05	962.56	10.30	963.72	12.80	964.35
08/24/15	8.94	906.01	10.25	922.64	10.15	939.87	6.25	963.36	8.20	965.82	11.13	966.02
03/01/16	9.20	905.75	13.30	919.59	8.51	941.51	4.45	965.16	6.50	967.52	8.35	968.80
09/09/16	10.55	904.40	9.80	923.09	15.53	934.49	9.20	960.41	13.93	960.09	17.65	959.50
03/22/17	9.63	905.32	13.55	919.34	13.31	936.71	5.90	963.71	7.55	966.47	13.70	963.45
08/24/17	11.96	902.99	9.75	923.14	15.25	934.77	12.42	957.19	15.25	958.77	18.42	958.73
02/26/18	9.67	905.28	14.46	918.43	14.81	935.21	9.42	960.19	9.42	964.60	17.73	959.42
08/29/18	10.25	904.70	10.45	922.44	13.00	937.02	8.02	961.59	12.75	961.27	18.67	958.48
03/18/19	8.05	906.90	13.26	919.63	4.34	945.68	3.18	966.43	5.76	968.26	6.93	970.22
09/10/19	10.65	904.30	9.85	923.04	14.15	935.87	10.46	959.15	12.93	961.09	16.60	960.55
03/25/20	8.30	906.65	12.07	920.82	6.70	943.32	3.34	966.27	5.84	968.18	7.33	969.82
09/04/20	11.65	903.30	9.59	923.30	14.40	935.62	10.79	958.82	10.00	964.02	15.22	961.93
03/02/21	9.23	905.72	12.48	920.41	11.61	938.41	6.87	962.74	5.83	968.19	12.08	965.07
09/02/21	11.35	903.60	9.88	923.01	15.14	934.88	11.66	957.95	9.54	964.48	16.01	961.14
03/02/22	9.95	905.00	13.64	919.25	15.26	934.76	10.52	959.09	10.68	963.34	15.05	962.10
08/29/22	12.05	902.90	10.02	922.87	14.04	935.98	11.89	957.72	10.60	963.42	17.06	960.09
03/23/23	9.20	905.75	13.21	919.68	10.00	940.02	5.72	963.89	7.12	966.90	13.94	963.21
09/25/23	14.10	900.85	10.28	922.61	15.15	934.87	14.25	955.36	10.61	963.41	18.99	958.16
03/05/24	11.68	903.27	13.06	919.83	10.56	939.46	11.15	958.46	8.21	965.81	16.21	960.94
09/30/24	12.14	902.81	10.13	922.76	13.10	936.92	11.93	957.68	10.11	963.91	17.44	959.71
03/06/25	10.17	904.78	14.19	918.70	14.70	935.32	7.49	962.12	7.00	967.02	15.07	962.08
09/17/25	10.56	904.39	10.14	922.75	12.00	938.02	9.37	960.24	8.09	965.93	14.95	962.20
minimum	6.70	900.43	9.59	916.99	4.34	934.03	3.18	954.21	5.76	955.70	6.93	957.44
maximum	14.52	908.25	15.90	923.30	15.99	945.68	15.40	966.43	18.32	968.26	19.71	970.22

Table 4A
Water Elevation Da
Tama County Sanit
86-SDP-1-72P

Well/TOC	MW-37 978.74		MW-38 969.16		MW-39 957.1		MW-40 965.18		MW-41 961.66		MW-42 961.65	
	Water Depth	Water Elevation	Water Depth	Water Elevation	Water Depth	Water Elevation	Water Depth	Water Elevation	Water Depth	Water Elevation	Water Depth	Water Elevation
03/28/12												
07/05/12												
09/11/12												
10/30/12												
03/26/13												
05/17/13												
07/09/13												
09/25/13												
11/26/13	16.75	961.99	14.80	954.36	13.85	943.25						
03/19/14	14.40	964.34	17.45	951.71	16.80	940.30						
09/15/14	8.35	970.39	7.50	961.66	6.60	950.50						
03/06/15	12.65	966.09	13.20	955.96	12.75	944.35						
08/24/15	9.15	969.59	8.38	960.78	4.89	952.21						
03/01/16	9.42	969.32	9.10	960.06	7.64	949.46						
09/09/16	12.70	966.04	12.11	957.05	6.96	950.14						
03/22/17	11.90	966.84	10.75	958.41	8.98	948.12						
08/24/17	12.55	966.19	12.03	957.13	7.10	950.00						
02/26/18	14.12	964.62	13.63	955.53	11.34	945.76						
08/29/18	10.97	967.77	9.93	959.23	5.15	951.95						
03/18/19	7.78	970.96	10.30	958.86	8.67	948.43	40.81	924.37	37.10	924.56	13.05	948.60
09/10/19	11.32	967.42	10.53	958.63	5.13	951.97	41.35	923.83	36.57	925.09	15.22	946.43
03/25/20	8.78	969.96	7.11	962.05	7.25	949.85						
09/04/20	11.66	967.08	10.62	958.54	5.65	951.45	41.67	923.51	36.72	924.94	15.65	946.00
03/02/21	10.50	968.24	8.65	960.51	7.95	949.15	42.12	923.06	37.05	924.61	14.70	946.95
09/02/21	12.84	965.90	10.95	958.21	4.81	952.29	42.04	923.14	37.44	924.22	15.79	945.86
03/02/22	14.25	964.49	13.20	955.96	10.00	947.10	42.68	922.50	38.15	923.51	16.81	944.84
08/29/22	12.29	966.45	12.05	957.11	5.26	951.84	42.31	922.87	37.63	924.03	15.40	946.25
03/23/23	12.63	966.11	9.98	959.18	8.20	948.90	43.35	921.83	38.15	923.51	15.63	946.02
09/25/23	14.88	963.86	14.04	955.12	6.61	950.49	43.56	921.62	39.12	922.54	17.57	944.08
03/05/24	14.47	964.27										
09/30/24	12.15	966.59	13.68	955.48	6.10	951.00	42.84	922.34	37.95	923.71	15.50	946.15
03/06/25	13.62	965.12	13.10	956.06	10.42	946.68	43.46	921.72	38.48	923.18	16.31	945.34
09/17/25	10.55	968.19	10.40	958.76	4.41	952.69	41.74	923.44	36.94	924.72	13.77	947.88
minimum	7.78	961.99	7.11	951.71	4.41	940.30	40.81	921.62	36.57	922.54	13.05	944.08
maximum	16.75	970.96	17.45	962.05	16.80	952.69	43.56	924.37	39.12	925.09	17.57	948.60

Table 4A
Water Elevation Da
Tama County Sanit
86-SDP-1-72P

Well/TOC	MW-45 975.38		MW-46 976.00	
	Water Depth	Water Elevation	Water Depth	Water Elevation
03/28/12				
07/05/12				
09/11/12				
10/30/12				
03/26/13				
05/17/13				
07/09/13				
09/25/13				
11/26/13				
03/19/14				
09/15/14				
03/06/15				
08/24/15				
03/01/16				
09/09/16				
03/22/17				
08/24/17				
02/26/18				
08/29/18				
03/18/19	76.70	898.68	9.32	966.68
09/10/19	57.42	917.96	12.58	963.42
03/25/20				
09/04/20	18.80	956.58	12.62	963.38
03/02/21	18.75	956.63	11.78	964.22
09/02/21	18.57	956.81	14.05	961.95
03/02/22	19.95	955.43	14.86	961.14
08/29/22	18.89	956.49	13.17	962.83
03/23/23	20.33	955.05	11.95	964.05
09/25/23	19.93	955.45	15.50	960.50
03/05/24				
09/30/24	20.21	955.17	14.84	961.16
03/06/25	21.25	954.13	16.42	959.58
09/17/25	19.80	955.58	13.57	962.43
minimum	18.57	898.68	9.32	959.58
maximum	76.70	956.81	16.42	966.68

Table 5 – Background and GWPS Summary

Table 5
Background and GWPS Summary
Annual Water Quality Report
Tama County Sanitary Landfill
Permit No. 86-SDP-01-72P

Interwell Background Wells (MW-20, MW-26, MW-33 and MW-37)

Inorganics - Appendix I										
Constituent	Units	Model Type	Samples - N	Detections	Mean	SD	Prediction Limit	Confidence	GWPS	Source
Antimony (Sb)	µg/l	nonparametric	98	0			2.0000	0.99	6	SS
Arsenic (As)	µg/l	nonparametric	98	0			4.0000	0.99	10	SS
Barium (Ba)	µg/l	normal	99	99	142.1616	59.1889	282.8482		2000	SS
Beryllium (Be)	µg/l	nonparametric	98	0			4.0000	0.99	4	SS
Cadmium (Cd)	µg/l	nonparametric	98	2			0.8000	0.99	5	SS
Chromium (Cr)	µg/l	nonparametric	98	3			8.0000	0.99	100	SS
Cobalt (Co)	µg/l	nonparametric	98	11			2.6000	0.99	2.6	Site
Copper (Cu)	µg/l	nonparametric	98	1			8.4000	0.99	1300	SS
Lead (Pb)	µg/l	nonparametric	98	0			4.0000	0.99	15	SS
Nickel (Ni)	µg/l	nonparametric	98	0			4.0000	0.99	100	SS
Selenium (Se)	µg/l	nonparametric	98	37			23.1000	0.99	50	SS
Silver (Ag)	µg/l	nonparametric	98	0			4.0000	0.99	100	SS
Thallium (Tl)	µg/l	nonparametric	98	0			2.0000	0.99	2	SS
Vanadium (V)	µg/l	nonparametric	98	0			20.0000	0.99	35	SS
Zinc (Zn)	µg/l	nonparametric	97	15			49.4000	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	98	0	<1	<1	<1	<1	various	SS

= Prediction limit exceeds the GWPS. A Site-Specific GWPS is warranted

Table 6 – Summary of Current Year SSI

Table 6
Summary of Well/Detected Constituent Pairs that Exceed the Background Standard
Annual Water Quality Report
Tama County Sanitary Landfill
Permit No. 86-SDP-01-72P

2025

Interwell Statistics

Well	System	Constituent	Date	Units	Result	Prediction Limit	GWPS
MW-3A	Till	arsenic	9/17/2025	ug/L	6.9	4.0	10
MW-3A	Till	nickel	9/17/2025	ug/L	5.1	4.0	100
MW-8	Till	barium	9/17/2025	ug/L	305.0	282.85	2000
MW-8	Till	nickel	3/6/2025	ug/L	5.4	4.0	100
MW-8	Till	nickel	9/17/2025	ug/L	9.8	4.0	100
MW-10	Till	barium	3/6/2025	ug/L	432.0	279.03	2000
MW-10	Till	barium	9/17/2025	ug/L	544.0	282.85	2000
MW-10	Till	cobalt	9/17/2025	ug/L	6.3	2.6	2.6
MW-10	Till	nickel	3/6/2025	ug/L	17.4	4.0	100
MW-10	Till	nickel	9/17/2025	ug/L	16.0	4.0	100
MW34	Till	cobalt	9/17/2025	ug/L	3.6	2.6	2.6
MW34	Till	nickel	9/17/2025	ug/L	10.6	4.0	100
MW34	Till	1,4-dichlorobenzene	9/17/2025	ug/L	2.4	1.0	75
MW34	Till	chlorobenzene	9/17/2025	ug/L	1.7	1.0	100
MW-35	Till	barium	3/6/2025	ug/L	435.0	279.03	2000
MW-35	Till	barium	9/17/2025	ug/L	454.0	282.85	2000
MW-35	Till	dichlorofluoromethane	9/17/2025	ug/L	1.8	1.0	1000
MW-36	Till	barium	3/6/2025	ug/L	300.0	279.03	2000
MW-36	Till	barium	9/17/2025	ug/L	302.0	282.85	2000

Table 7 – Summary of Ongoing and Newly Identified SSI

Table 7
Summary of Ongoing & Newly Identified SSI
Annual Water Quality Report
Tama County Sanitary Landfill
Permit No. 86-SDP-01-72P

KEY:	SSI	SSL LCL>GWPS

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

Monitoring Well	Compound	Sample Date	Each Result (ug/L)	Prediction Limit (ug/L)	95% LCL (ug/L)	GWPS Limit (ug/L)	SSI Initial Exceedance	Resamples Due	5th Background Sample
MW 3A	Arsenic	3/1/2016	<4.0	4.0	---	10	9/9/2016	N/A	8/24/2017
MW 3A	Arsenic	9/9/2016	6.1	4.0	---	10	9/9/2016	N/A	8/24/2017
MW 3A	Arsenic	10/31/2016	4.7	4.0	---	10	9/9/2016	N/A	8/24/2017
MW 3A	Arsenic	3/22/2017	<4.0	4.0	---	10	9/9/2016	N/A	8/24/2017
MW 3A	Arsenic	8/24/2017	4.5	4.0	2.319	10	9/9/2016	N/A	8/24/2017
MW 3A	Arsenic	11/15/2017	9.4	4.0	2.319	10	9/9/2016	N/A	8/24/2017
MW 3A	Arsenic	2/26/2018	<4.0	4.0	0.372	10	9/9/2016	N/A	8/24/2017
MW 3A	Arsenic	8/29/2018	5.6	4.0	1.755	10	9/9/2016	N/A	8/24/2017
MW 3A	Arsenic	3/18/2019	<4.0	4.0	0.593	10	9/9/2016	N/A	8/24/2017
MW 3A	Arsenic	9/10/2019	<4.0	4.0	0.783	10	9/9/2016	N/A	8/24/2017
MW 3A	Arsenic	3/25/2020	<4.0	4.0	0.783	10	9/9/2016	N/A	8/24/2017
MW 3A	Arsenic	9/4/2020	<4.0	4.0	2.000	10	9/9/2016	N/A	8/24/2017
MW 3A	Arsenic	3/2/2021	<4.0	4.0	2.000	10	9/9/2016	N/A	8/24/2017
MW 3A	Arsenic	9/2/2021	4.1	4.0	1.290	10	9/9/2016	N/A	8/24/2017
MW 3A	Arsenic	3/2/2022	<4.0	4.0	1.290	10	9/9/2016	N/A	8/24/2017
MW 3A	Arsenic	8/29/2022	<4.0	4.00	1.290	10	9/9/2016	N/A	8/24/2017
MW 3A	Arsenic	3/23/2023	<4.0	4.00	1.290	10	9/9/2016	N/A	8/24/2017
MW 3A	Arsenic	9/25/2023	Dry	4.00	1.290	10	9/9/2016	N/A	8/24/2017
MW 3A	Arsenic	3/5/2024	<4.0	4.00	2.000	10	9/9/2016	N/A	8/24/2017
MW 3A	Arsenic	9/30/2024	10.10	4.00	0.000	10	9/9/2016	N/A	8/24/2017
MW 3A	Arsenic	3/6/2025	<4.0	4.00	0.000	10	9/9/2016	N/A	8/24/2017
MW 3A	Arsenic	9/17/2025	6.90	4.00	0.576	10	9/9/2016	N/A	8/24/2017

Table 7
Summary of Ongoing & Newly Identified SSI
Annual Water Quality Report
Tama County Sanitary Landfill
Permit No. 86-SDP-01-72P

KEY:	SSI	SSL LCL>GWPS

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

Monitoring Well	Compound	Sample Date	Each Result (ug/L)	Prediction Limit (ug/L)	95% LCL (ug/L)	GWPS Limit (ug/L)	SSI Initial Exceedance	Resamples Due	5th Background Sample
MW 3A	Barium	3/1/2016	102.0	273.70	---	2,000.00	9/9/2016	N/A	8/24/2017
MW 3A	Barium	9/9/2016	369.0	273.70	---	2,000.00	9/9/2016	N/A	8/24/2017
MW 3A	Barium	10/31/2016	308.0	273.70	---	2,000.00	9/9/2016	N/A	8/24/2017
MW 3A	Barium	3/22/2017	140.0	273.70	---	2,000.00	9/9/2016	N/A	8/24/2017
MW 3A	Barium	8/24/2017	535.0	273.70	146.064	2,000.00	9/9/2016	N/A	8/24/2017
MW 3A	Barium	11/15/2017	516.0	273.70	146.064	2,000.00	9/9/2016	N/A	8/24/2017
MW 3A	Barium	2/26/2018	154.0	273.70	78.949	2,000.00	9/9/2016	N/A	8/24/2017
MW 3A	Barium	8/29/2018	379.0	273.70	189.368	2,000.00	9/9/2016	N/A	8/24/2017
MW 3A	Barium	3/18/2019	72.3	283.71	40.685	2,000.00	9/9/2016	N/A	8/24/2017
MW 3A	Barium	9/10/2019	195.0	283.54	47.476	2,000.00	9/9/2016	N/A	8/24/2017
MW 3A	Barium	3/25/2020	86.4	285.69	16.621	2,000.00	9/9/2016	N/A	8/24/2017
MW 3A	Barium	9/4/2020	210.0	283.11	56.708	2,000.00	9/9/2016	N/A	8/24/2017
MW 3A	Barium	3/2/2021	176.0	282.21	101.674	2,000.00	9/9/2016	N/A	8/24/2017
MW 3A	Barium	9/2/2021	264.0	283.45	96.427	2,000.00	9/9/2016	N/A	8/24/2017
MW 3A	Barium	3/2/2022	387.0	284.60	150.380	2,000.00	9/9/2016	N/A	8/24/2017
MW 3A	Barium	8/29/2022	378.0	282.69	182.998	2,000.00	9/9/2016	N/A	8/24/2017
MW 3A	Barium	3/23/2023	333.0	282.91	274.387	2,000.00	9/9/2016	N/A	8/24/2017
MW 3A	Barium	9/25/2023	Dry	282.91	274.387	2,000.00	9/9/2016	N/A	8/24/2017
MW 3A	Barium	3/5/2024	153.0	279.54	184.431	2,000.00	9/9/2016	N/A	8/24/2017
MW 3A	Barium	9/30/2024	97.8	279.23	80.483	2,000.00	9/9/2016	N/A	8/24/2017
MW 3A	Barium	3/6/2025	67.0	279.03	22.749	2,000.00	9/9/2016	N/A	8/24/2017
MW 3A	Barium	9/17/2025	188.0	282.85	62.567	2,000.00	9/9/2016	N/A	8/24/2017

Table 7
Summary of Ongoing & Newly Identified SSI
Annual Water Quality Report
Tama County Sanitary Landfill
Permit No. 86-SDP-01-72P

KEY:	SSI	SSL LCL>GWPS

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

Monitoring Well	Compound	Sample Date	Each Result (ug/L)	Prediction Limit (ug/L)	95% LCL (ug/L)	GWPS Limit (ug/L)	SSI Initial Exceedance	Resamples Due	5th Background Sample
MW 3A	Cobalt	3/1/2016	<0.8	0.8	---	2.8	11/15/2017	N/A	8/24/2017
MW 3A	Cobalt	9/9/2016	0.80	0.8	---	2.8	11/15/2017	N/A	8/24/2017
MW 3A	Cobalt	3/22/2017	<0.8	0.8	---	2.8	11/15/2017	N/A	8/24/2017
MW 3A	Cobalt	8/24/2017	<0.8	0.8	0.994	2.8	11/15/2017	N/A	8/24/2017
MW 3A	Cobalt	11/15/2017	4.9	0.8	0.994	2.8	11/15/2017	N/A	8/24/2017
MW 3A	Cobalt	2/26/2018	<0.8	0.8	1.019	2.1	11/15/2017	N/A	8/24/2017
MW 3A	Cobalt	8/29/2018	<0.8	0.8	1.019	2.1	11/15/2017	N/A	8/24/2017
MW 3A	Cobalt	3/18/2019	1.10	0.8	0.553	2.1	11/15/2017	N/A	8/24/2017
MW 3A	Cobalt	9/10/2019	1.60	0.8	1.172	2.1	11/15/2017	N/A	8/24/2017
MW 3A	Cobalt	3/25/2020	0.90	0.8	0.816	2.1	11/15/2017	N/A	8/24/2017
MW 3A	Cobalt	9/4/2020	0.90	0.8	0.736	2.1	11/15/2017	N/A	8/24/2017
MW 3A	Cobalt	3/2/2021	2.50	1.0	0.582	2.1	11/15/2017	N/A	8/24/2017
MW 3A	Cobalt	9/2/2021	1.70	2.6	0.599	2.6	11/15/2017	N/A	8/24/2017
MW 3A	Cobalt	3/2/2022	0.80	2.6	0.542	2.6	11/15/2017	N/A	8/24/2017
MW 3A	Cobalt	8/29/2022	<0.4	2.6	0.910	2.6	11/15/2017	N/A	8/24/2017
MW 3A	Cobalt	3/23/2023	<0.4	2.6	0.538	2.6	11/15/2017	N/A	8/24/2017
MW 3A	Cobalt	9/25/2023	Dry	2.6	0.538	2.6	11/15/2017	N/A	8/24/2017
MW 3A	Cobalt	3/5/2024	1.10	1.8	0.454	2.6	11/15/2017	N/A	8/24/2017
MW 3A	Cobalt	9/30/2024	1.50	1.8	0.671	2.6	11/15/2017	N/A	8/24/2017
MW 3A	Cobalt	3/6/2025	0.40	2.6	0.362	2.6	11/15/2017	N/A	8/24/2017
MW 3A	Cobalt	9/17/2025	2.00	2.6	0.455	2.6	11/15/2017	N/A	8/24/2017

Table 7
Summary of Ongoing & Newly Identified SSI
Annual Water Quality Report
Tama County Sanitary Landfill
Permit No. 86-SDP-01-72P

KEY:	SSI	SSL LCL>GWPS

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

Monitoring Well	Compound	Sample Date	Each Result (ug/L)	Prediction Limit (ug/L)	95% LCL (ug/L)	GWPS Limit (ug/L)	SSI Initial Exceedance	Resamples Due	5th Background Sample
MW 3A	Nickel	3/1/2016	7.9	4.0	---	100	3/1/2016	N/A	8/24/2017
MW 3A	Nickel	9/9/2016	<4.0	4.0	---	100	3/1/2016	N/A	8/24/2017
MW 3A	Nickel	3/22/2017	<4.0	4.0	---	100	3/1/2016	N/A	8/24/2017
MW 3A	Nickel	8/24/2017	<4.0	4.0	0.005	100	3/1/2016	N/A	8/24/2017
MW 3A	Nickel	2/26/2018	4.7	4.0	1.087	100	3/1/2016	N/A	8/24/2017
MW 3A	Nickel	8/29/2018	<8.0	4.0	1.087	100	3/1/2016	N/A	8/24/2017
MW 3A	Nickel	3/18/2019	4.8	4.0	1.507	100	3/1/2016	N/A	8/24/2017
MW 3A	Nickel	9/10/2019	4.3	4.0	2.400	100	3/1/2016	N/A	8/24/2017
MW 3A	Nickel	3/25/2020	4.5	4.0	2.391	100	3/1/2016	N/A	8/24/2017
MW 3A	Nickel	9/4/2020	<4.0	4.0	2.391	100	3/1/2016	N/A	8/24/2017
MW 3A	Nickel	3/2/2021	<4.0	4.0	1.567	100	3/1/2016	N/A	8/24/2017
MW 3A	Nickel	9/2/2021	<4.0	4.0	1.155	100	3/1/2016	N/A	8/24/2017
MW 3A	Nickel	3/2/2022	<4.0	4.0	2.000	100	3/1/2016	N/A	8/24/2017
MW 3A	Nickel	8/29/2022	<4.0	4.0	2.000	100	3/1/2016	N/A	8/24/2017
MW 3A	Nickel	3/23/2023	<4.0	4.0	2.000	100	3/1/2016	N/A	8/24/2017
MW 3A	Nickel	9/25/2023	Dry	4.0	2.000	100	3/1/2016	N/A	8/24/2017
MW 3A	Nickel	3/5/2024	12.60	4.0	0.000	100	3/1/2016	N/A	8/24/2017
MW 3A	Nickel	9/30/2024	<4.0	4.0	0.000	100	3/1/2016	N/A	8/24/2017
MW 3A	Nickel	3/6/2025	<4.0	4.0	0.000	100	3/1/2016	N/A	8/24/2017
MW 3A	Nickel	9/17/2025	5.10	4.0	0.000	100	3/1/2016	N/A	8/24/2017

Table 7
Summary of Ongoing & Newly Identified SSI
Annual Water Quality Report
Tama County Sanitary Landfill
Permit No. 86-SDP-01-72P

KEY:	SSI	SSL LCL>GWPS

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

Monitoring Well	Compound	Sample Date	Each Result (ug/L)	Prediction Limit (ug/L)	95% LCL (ug/L)	GWPS Limit (ug/L)	SSI Initial Exceedance	Resamples Due	5th Background Sample
MW 3A	Zinc	3/1/2016	<8.0	49.4	---	2,000.00	8/29/2018	N/A	8/24/2017
MW 3A	Zinc	9/9/2016	8.90	49.4	---	2,000.00	8/29/2018	N/A	8/24/2017
MW 3A	Zinc	3/22/2017	<8.0	49.4	---	2,000.00	8/29/2018	N/A	8/24/2017
MW 3A	Zinc	8/24/2017	<8.0	49.4	---	2,000.00	8/29/2018	N/A	8/24/2017
MW 3A	Zinc	2/26/2018	<8.0	49.4	---	2,000.00	8/29/2018	N/A	8/24/2017
MW 3A	Zinc	8/29/2018	71.80	49.4	0.000	2,000.00	8/29/2018	N/A	8/24/2017
MW 3A	Zinc	3/18/2019	<20	49.4	0.000	2,000.00	8/29/2018	N/A	8/24/2017
MW 3A	Zinc	9/10/2019	14.70	49.4	0.000	2,000.00	8/29/2018	N/A	8/24/2017
MW 3A	Zinc	3/25/2020	<20	49.4	0.000	2,000.00	8/29/2018	N/A	8/24/2017
MW 3A	Zinc	9/4/2020	<20	49.4	0.382	2,000.00	8/29/2018	N/A	8/24/2017
MW 3A	Zinc	3/2/2021	<20	49.4	0.382	2,000.00	8/29/2018	N/A	8/24/2017
MW 3A	Zinc	9/2/2021	<20	49.4	4.000	2,000.00	8/29/2018	N/A	8/24/2017
MW 3A	Zinc	3/2/2022	<20	49.4	4.000	2,000.00	8/29/2018	N/A	8/24/2017
MW 3A	Zinc	8/29/2022	<20	49.4	4.000	2,000.00	8/29/2018	N/A	8/24/2017
MW 3A	Zinc	3/23/2023	<20	49.4	4.000	2,000.00	8/29/2018	N/A	8/24/2017
MW 3A	Zinc	9/25/2023	Dry	49.4	4.000	2,000.00	8/29/2018	N/A	8/24/2017
MW 3A	Zinc	3/5/2024	<20	49.4	4.000	2,000.00	8/29/2018	N/A	8/24/2017
MW 3A	Zinc	9/30/2024	<20	49.4	4.000	2,000.00	8/29/2018	N/A	8/24/2017
MW 3A	Zinc	3/6/2025	<20	49.4	4.000	2,000.00	8/29/2018	N/A	8/24/2017
MW 3A	Zinc	9/17/2025	<5	49.4	4.000	2,000.00	8/29/2018	N/A	8/24/2017

Table 7
Summary of Ongoing & Newly Identified SSI
Annual Water Quality Report
Tama County Sanitary Landfill
Permit No. 86-SDP-01-72P

KEY:	SSI	SSL LCL>GWPS

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

Monitoring Well	Compound	Sample Date	Each Result (ug/L)	Prediction Limit (ug/L)	95% LCL (ug/L)	GWPS Limit (ug/L)	SSI Initial Exceedance	Resamples Due	5th Background Sample
MW 3A	Bis(2-ethylhexyl)phthalate	3/1/2016	NT	6.0	---	6	2/26/2018	N/A	8/24/2017
MW 3A	Bis(2-ethylhexyl)phthalate	9/9/2016	NT	6.0	---	6	2/26/2018	N/A	8/24/2017
MW 3A	Bis(2-ethylhexyl)phthalate	3/22/2017	<8.0	6.0	---	6	2/26/2018	N/A	8/24/2017
MW 3A	Bis(2-ethylhexyl)phthalate	8/24/2017	NT	6.0	---	6	2/26/2018	N/A	8/24/2017
MW 3A	Bis(2-ethylhexyl)phthalate	2/26/2018	193.0	6.0	---	6	2/26/2018	N/A	8/24/2017
MW 3A	Bis(2-ethylhexyl)phthalate	8/29/2018	<6	6.0	---	6	2/26/2018	N/A	8/24/2017
MW 3A	Bis(2-ethylhexyl)phthalate	3/18/2019	<6	6.0	0.000	6	2/26/2018	N/A	8/24/2017
MW 3A	Bis(2-ethylhexyl)phthalate	9/10/2019	<6	6.0	0.000	6	2/26/2018	N/A	8/24/2017
MW 3A	Bis(2-ethylhexyl)phthalate	3/25/2020	<6	6.0	3.000	6	2/26/2018	N/A	8/24/2017
MW 3A	Bis(2-ethylhexyl)phthalate	9/4/2020	<6	6.0	3.000	6	2/26/2018	N/A	8/24/2017
MW 3A	Bis(2-ethylhexyl)phthalate	3/2/2021	<6	6.0	3.000	6	2/26/2018	N/A	8/24/2017
MW 3A	Bis(2-ethylhexyl)phthalate	9/2/2021	NT	6.0	3.000	6	2/26/2018	N/A	8/24/2017
MW 3A	Bis(2-ethylhexyl)phthalate	3/2/2022	<6	6.0	3.000	6	2/26/2018	N/A	8/24/2017
MW 3A	Bis(2-ethylhexyl)phthalate	8/29/2022	NT	6.0	3.000	6	2/26/2018	N/A	8/24/2017
MW 3A	Bis(2-ethylhexyl)phthalate	3/23/2023	8.0	6.0	1.309	6	2/26/2018	N/A	8/24/2017
MW 3A	Bis(2-ethylhexyl)phthalate	9/25/2023	Dry	6.0	1.309	6	2/26/2018	N/A	8/24/2017
MW 3A	Bis(2-ethylhexyl)phthalate	3/5/2024	<6	6.0	1.309	6	2/26/2018	N/A	8/24/2017
MW 3A	Bis(2-ethylhexyl)phthalate	9/30/2024	NT	6.0	1.309	6	2/26/2018	N/A	8/24/2017
MW 3A	Bis(2-ethylhexyl)phthalate	3/6/2025	NT	6.0	1.309	6	2/26/2018	N/A	8/24/2017
MW 3A	Bis(2-ethylhexyl)phthalate	9/17/2025	NT	6.0	1.309	6	2/26/2018	N/A	8/24/2017

Bold GWPS = A Site Specific GWPS that is equal to the Prediction Limit. All other GWPS are IAC 567-137 Statewide Standards for Protected Groundwater.

Table 7
Summary of Ongoing & Newly Identified SSI
Annual Water Quality Report
Tama County Sanitary Landfill
Permit No. 86-SDP-01-72P

KEY:	SSI	SSL LCL>GWPS

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

Monitoring Well	Compound	Sample Date	Each Result (ug/L)	Prediction Limit (ug/L)	95% LCL (ug/L)	GWPS Limit (ug/L)	SSI Initial Exceedance	Resamples Due	5th Background Sample
MW 8	Barium	3/1/2016	112.0	273.7	---	2000	8/29/2022	N/A	2/26/2018
MW 8	Barium	9/9/2016	206.0	273.7	---	2000	8/29/2022	N/A	2/26/2018
MW 8	Barium	3/22/2017	160.0	273.7	---	2000	8/29/2022	N/A	2/26/2018
MW 8	Barium	8/24/2017	155.0	273.7	---	2000	8/29/2022	N/A	2/26/2018
MW 8	Barium	2/26/2018	158.0	273.7	---	2000	8/29/2022	N/A	2/26/2018
MW 8	Barium	8/29/2018	198.0	273.7	---	2000	8/29/2022	N/A	2/26/2018
MW 8	Barium	3/18/2019	119.0	283.7	---	2000	8/29/2022	N/A	2/26/2018
MW 8	Barium	9/10/2019	180.0	283.5	---	2000	8/29/2022	N/A	2/26/2018
MW 8	Barium	3/25/2020	121.0	285.7	---	2000	8/29/2022	N/A	2/26/2018
MW 8	Barium	9/4/2020	169.0	283.1	---	2000	8/29/2022	N/A	2/26/2018
MW 8	Barium	3/2/2021	260.0	282.2	---	2000	8/29/2022	N/A	2/26/2018
MW 8	Barium	9/2/2021	208.0	283.5	---	2000	8/29/2022	N/A	2/26/2018
MW 8	Barium	3/2/2022	179.0	284.6	---	2000	8/29/2022	N/A	2/26/2018
MW 8	Barium	8/29/2022	300.0	282.7	173.395	2000	8/29/2022	N/A	2/26/2018
MW 8	Barium	3/23/2023	177.0	282.9	148.053	2000	8/29/2022	N/A	2/26/2018
MW 8	Barium	9/25/2023	198.0	280.68	144.760	2,000	8/29/2022	N/A	2/26/2018
MW 8	Barium	3/5/2024	201.0	279.54	154.251	2,000	8/29/2022	N/A	2/26/2018
MW 8	Barium	9/30/2024	264.0	279.23	165.830	2,000	8/29/2022	N/A	2/26/2018
MW 8	Barium	3/6/2025	208.0	279.03	181.148	2,000	8/29/2022	N/A	2/26/2018
MW 8	Barium	9/17/2025	305.0	282.85	186.614	2,000	8/29/2022	N/A	2/26/2018

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KEY:	SSI	SSL LCL>GWPS

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

Monitoring Well	Compound	Sample Date	Each Result (ug/L)	Prediction Limit (ug/L)	95% LCL (ug/L)	GWPS Limit (ug/L)	SSI Initial Exceedance	Resamples Due	5th Background Sample
MW 8	Cobalt	3/1/2016	1.2	0.8	0.585	2.8	3/1/2016	N/A	2/26/2018
MW 8	Cobalt	9/9/2016	4.3	0.8	0.000	2.8	3/1/2016	N/A	2/26/2018
MW 8	Cobalt	3/22/2017	<0.8	0.8	0.29	2.8	3/1/2016	N/A	2/26/2018
MW 8	Cobalt	8/24/2017	<0.8	0.8	0.802	2.8	3/1/2016	N/A	2/26/2018
MW 8	Cobalt	2/26/2018	<0.8	0.8	0	2.8	3/1/2016	N/A	2/26/2018
MW 8	Cobalt	8/29/2018	1.6	0.8	0	2.1	3/1/2016	N/A	2/26/2018
MW 8	Cobalt	3/18/2019	<0.8	0.8	0	2.1	3/1/2016	N/A	2/26/2018
MW 8	Cobalt	9/10/2019	1.0	0.8	0.174	2.1	3/1/2016	N/A	2/26/2018
MW 8	Cobalt	3/25/2020	<0.8	0.8	0.174	2.1	3/1/2016	N/A	2/26/2018
MW 8	Cobalt	9/4/2020	0.5	0.8	0.237	2.1	3/1/2016	N/A	2/26/2018
MW 8	Cobalt	3/2/2021	2.1	1.0	0.084	2.1	3/1/2016	N/A	2/26/2018
MW 8	Cobalt	9/2/2021	1.4	2.6	0.154	2.6	3/1/2016	N/A	2/26/2018
MW 8	Cobalt	3/2/2022	0.6	2.6	0.267	2.6	3/1/2016	N/A	2/26/2018
MW 8	Cobalt	8/29/2022	2.1	2.6	0.710	2.6	3/1/2016	N/A	2/26/2018
MW 8	Cobalt	3/23/2023	0.7	2.6	0.207	2.6	3/1/2016	N/A	2/26/2018
MW 8	Cobalt	9/25/2023	0.6	2.6	0.000	2.6	3/1/2016	N/A	2/26/2018
MW 8	Cobalt	3/5/2024	0.6	1.8	0.000	2.6	3/1/2016	N/A	2/26/2018
MW 8	Cobalt	9/30/2024	3.1	1.8	0.000	2.6	3/1/2016	N/A	2/26/2018
MW 8	Cobalt	3/6/2025	0.8	2.6	0.000	2.6	3/1/2016	N/A	2/26/2018
MW 8	Cobalt	9/17/2025	1.3	2.6	0.111	2.6	3/1/2016	N/A	2/26/2018

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KEY:	SSI	SSL LCL>GWPS

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Monitoring Well	Compound	Sample Date	Each Result (ug/L)	Prediction Limit (ug/L)	95% LCL (ug/L)	GWPS Limit (ug/L)	SSI Initial Exceedance	Resamples Due	5th Background Sample
MW 8	Nickel	3/1/2016	5.4	4.0	2.410	100	3/1/2016	N/A	2/26/2018
MW 8	Nickel	9/9/2016	17.4	4.0	1.766	100	3/1/2016	N/A	2/26/2018
MW 8	Nickel	10/31/2016	9.8	4.0	1.766	100	3/1/2016	N/A	2/26/2018
MW 8	Nickel	3/22/2017	5.5	4.0	2.895	100	3/1/2016	N/A	2/26/2018
MW 8	Nickel	8/24/2017	13.7	4.0	5.583	100	3/1/2016	N/A	2/26/2018
MW 8	Nickel	2/26/2018	7.6	4.0	5.027	100	3/1/2016	N/A	2/26/2018
MW 8	Nickel	8/29/2018	11.8	4.0	5.225	100	3/1/2016	N/A	2/26/2018
MW 8	Nickel	3/18/2019	4.7	4.0	4.669	100	3/1/2016	N/A	2/26/2018
MW 8	Nickel	9/10/2019	14.9	4.0	4.452	100	3/1/2016	N/A	2/26/2018
MW 8	Nickel	3/25/2020	<4.0	4.0	1.278	100	3/1/2016	N/A	2/26/2018
MW 8	Nickel	9/4/2020	9.2	4.0	1.06	100	3/1/2016	N/A	2/26/2018
MW 8	Nickel	3/2/2021	6.0	4.0	1.616	100	3/1/2016	N/A	2/26/2018
MW 8	Nickel	9/2/2021	13.2	4.0	2.006	100	3/1/2016	N/A	2/26/2018
MW 8	Nickel	3/2/2022	4.2	4.0	3.503	100	3/1/2016	N/A	2/26/2018
MW 8	Nickel	8/29/2022	13.5	4.0	3.554	100	3/1/2016	N/A	2/26/2018
MW 8	Nickel	3/23/2023	<4.0	4.0	1.183	100	3/1/2016	N/A	2/26/2018
MW 8	Nickel	9/25/2023	15.2	4.0	0.969	100	3/1/2016	N/A	2/26/2018
MW 8	Nickel	3/5/2024	5.5	4.0	1.613	100	3/1/2016	N/A	2/26/2018
MW 8	Nickel	9/30/2024	13.3	4.0	1.617	100	3/1/2016	N/A	2/26/2018
MW 8	Nickel	3/6/2025	5.4	4.0	3.804	100	3/1/2016	N/A	2/26/2018
MW 8	Nickel	9/17/2025	9.8	4.0	4.029	100	3/1/2016	N/A	2/26/2018

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KEY:	SSI	SSL LCL>GWPS

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Monitoring Well	Compound	Sample Date	Each Result (ug/L)	Prediction Limit (ug/L)	95% LCL (ug/L)	GWPS Limit (ug/L)	SSI Initial Exceedance	Resamples Due	5th Background Sample
MW 8	Zinc	3/1/2016	<8.0	49.4	---	2,000	8/29/2018	N/A	2/26/2018
MW 8	Zinc	9/9/2016	9.2	49.4	---	2,000	8/29/2018	N/A	2/26/2018
MW 8	Zinc	3/22/2017	<8.0	49.4	---	2,000	8/29/2018	N/A	2/26/2018
MW 8	Zinc	8/24/2017	<8.0	49.4	---	2,000	8/29/2018	N/A	2/26/2018
MW 8	Zinc	2/26/2018	<8.0	49.4	---	2,000	8/29/2018	N/A	2/26/2018
MW 8	Zinc	8/29/2018	56.3	49.4	0.000	2,000	8/29/2018	N/A	2/26/2018
MW 8	Zinc	3/18/2019	<20.	49.4	0.000	2,000	8/29/2018	N/A	2/26/2018
MW 8	Zinc	9/10/2019	9.2	49.4	0.000	2,000	8/29/2018	N/A	2/26/2018
MW 8	Zinc	3/25/2020	<20.	49.4	0.000	2,000	8/29/2018	N/A	2/26/2018
MW 8	Zinc	9/4/2020	<20.	49.4	2.242	2,000	8/29/2018	N/A	2/26/2018
MW 8	Zinc	3/2/2021	<20.	49.4	2.242	2,000	8/29/2018	N/A	2/26/2018
MW 8	Zinc	9/2/2021	<20.	49.4	4.000	2,000	8/29/2018	N/A	2/26/2018
MW 8	Zinc	3/2/2022	<20.	49.4	4.000	2,000	8/29/2018	N/A	2/26/2018
MW 8	Zinc	8/29/2022	<20	49.4	4.000	2,000	8/29/2018	N/A	2/26/2018
MW 8	Zinc	3/23/2023	<20	49.4	4.000	2,000	8/29/2018	N/A	2/26/2018
MW 8	Zinc	9/25/2023	<20	49.4	4.000	2,000	8/29/2018	N/A	2/26/2018
MW 8	Zinc	3/5/2024	<20	49.4	4.000	2,000	8/29/2018	N/A	2/26/2018
MW 8	Zinc	9/30/2024	<20	49.4	4.000	2,000	8/29/2018	N/A	2/26/2018
MW 8	Zinc	3/6/2025	<20	49.4	4.000	2,000	8/29/2018	N/A	2/26/2018
MW 8	Zinc	9/17/2025	6.7	49.4	4.000	2,000	8/29/2018	N/A	2/26/2018

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KEY:	SSI	SSL LCL>GWPS

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Monitoring Well	Compound	Sample Date	Each Result (ug/L)	Prediction Limit (ug/L)	95% LCL (ug/L)	GWPS Limit (ug/L)	SSI Initial Exceedance	Resamples Due	5th Background Sample
MW 8	bis(2-ethylhexyl)phthalate	3/1/2016	<10	6.0	0.000	6	8/24/2017	N/A	2/26/2018
MW 8	bis(2-ethylhexyl)phthalate	9/9/2016	<10	6.0	0.000	6	8/24/2017	N/A	2/26/2018
MW 8	bis(2-ethylhexyl)phthalate	3/22/2017	<8	6.0	5.000	6	8/24/2017	N/A	2/26/2018
MW 8	bis(2-ethylhexyl)phthalate	8/24/2017	35.0	6.0	0.000	6	8/24/2017	N/A	2/26/2018
MW 8	bis(2-ethylhexyl)phthalate	2/26/2018	262.0	6.0	0.000	6	8/24/2017	N/A	2/26/2018
MW 8	bis(2-ethylhexyl)phthalate	8/29/2018	24.0	6.0	0.000	6	8/24/2017	N/A	2/26/2018
MW 8	bis(2-ethylhexyl)phthalate	3/18/2019	<6	6.0	0.000	6	8/24/2017	N/A	2/26/2018
MW 8	bis(2-ethylhexyl)phthalate	9/10/2019	<6	6.0	0.000	6	8/24/2017	N/A	2/26/2018
MW 8	bis(2-ethylhexyl)phthalate	3/25/2020	<6	6.0	0.000	6	8/24/2017	N/A	2/26/2018
MW 8	bis(2-ethylhexyl)phthalate	9/4/2020	<6	6.0	3.000	6	8/24/2017	N/A	2/26/2018
MW 8	bis(2-ethylhexyl)phthalate	3/2/2021	<6	6.0	3.000	6	8/24/2017	N/A	2/26/2018
MW 8	bis(2-ethylhexyl)phthalate	9/2/2021	NT	6.0	3.000	6	8/24/2017	N/A	2/26/2018
MW 8	bis(2-ethylhexyl)phthalate	3/2/2022	<6	6.0	3.000	6	8/24/2017	N/A	2/26/2018
MW 8	bis(2-ethylhexyl)phthalate	8/29/2022	NT	6.0	3.000	6	8/24/2017	N/A	2/26/2018
MW 8	bis(2-ethylhexyl)phthalate	3/23/2023	NT	6.0	3.000	6	8/24/2017	N/A	2/26/2018
MW 8	bis(2-ethylhexyl)phthalate	9/25/2023	NT	6.0	3.000	6	8/24/2017	N/A	2/26/2018
MW 8	bis(2-ethylhexyl)phthalate	3/5/2024	NT	6.0	3.000	6	8/24/2017	N/A	2/26/2018
MW 8	bis(2-ethylhexyl)phthalate	9/30/2024	NT	6.0	3.000	6	8/24/2017	N/A	2/26/2018
MW 8	bis(2-ethylhexyl)phthalate	3/6/2025	NT	6.0	3.000	6	8/24/2017	N/A	2/26/2018
MW 8	bis(2-ethylhexyl)phthalate	9/17/2025	NT	6.0	3.000	6	8/24/2017	N/A	2/26/2018

Bold GWPS = A Site Specific GWPS that is equal to the Prediction Limit. All other GWPS are IAC 567-137 Statewide Standards for Protected Groundwater.

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Monitoring Well	Compound	Sample Date	Each Result (ug/L)	Prediction Limit (ug/L)	95% LCL (ug/L)	GWPS Limit (ug/L)	SSI Initial Exceedance	Resamples Due	5th Background Sample
MW 10	Arsenic	3/1/2016	<4.0	4.0	2.000	10	3/22/2017	N/A	2/26/2018
MW 10	Arsenic	9/9/2016	<4.0	4.0	2.000	10	3/22/2017	N/A	2/26/2018
MW 10	Arsenic	3/22/2017	12.5	4.0	0.000	10	3/22/2017	N/A	2/26/2018
MW 10	Arsenic	8/24/2017	4.9	4.0	0.000	10	3/22/2017	N/A	2/26/2018
MW 10	Arsenic	2/26/2018	11.2	4.0	1.745	10	3/22/2017	N/A	2/26/2018
MW 10	Arsenic	8/29/2018	9.7	4.0	5.670	10	3/22/2017	N/A	2/26/2018
MW 10	Arsenic	3/18/2019	<4.0	4.0	1.944	10	3/22/2017	N/A	2/26/2018
MW 10	Arsenic	9/10/2019	<4.0	4.0	0.441	10	3/22/2017	N/A	2/26/2018
MW 10	Arsenic	3/25/2020	<4.0	4.0	0.000	10	3/22/2017	N/A	2/26/2018
MW 10	Arsenic	9/4/2020	<4.0	4.0	2.000	10	3/22/2017	N/A	2/26/2018
MW 10	Arsenic	3/2/2021	<4.0	4.0	2.000	10	3/22/2017	N/A	2/26/2018
MW 10	Arsenic	9/2/2021	<4.0	4.0	2.000	10	3/22/2017	N/A	2/26/2018
MW 10	Arsenic	3/2/2022	<4.0	4.0	2.000	10	3/22/2017	N/A	2/26/2018
MW 10	Arsenic	8/29/2022	<4.0	4.0	2.000	10	3/22/2017	N/A	2/26/2018
MW 10	Arsenic	3/23/2023	<4.0	4.0	2.000	10	3/22/2017	N/A	2/26/2018
MW 10	Arsenic	9/25/2023	<4.0	4.0	2.000	10	3/22/2017	N/A	2/26/2018
MW 10	Arsenic	3/5/2024	<4.0	4.0	2.000	10	3/22/2017	N/A	2/26/2018
MW 10	Arsenic	9/30/2024	<4.0	4.0	2.000	10	3/22/2017	N/A	2/26/2018
MW 10	Arsenic	3/6/2025	<4.0	4.0	2.000	10	3/22/2017	N/A	2/26/2018
MW 10	Arsenic	9/17/2025	<2.0	4.0	2.000	10	3/22/2017	N/A	2/26/2018

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Monitoring Well	Compound	Sample Date	Each Result (ug/L)	Prediction Limit (ug/L)	95% LCL (ug/L)	GWPS Limit (ug/L)	SSI Initial Exceedance	Resamples Due	5th Background Sample
MW 10	Barium	3/1/2016	405.00	273.70	428.896	2,000	3/1/2016	N/A	2/26/2018
MW 10	Barium	9/9/2016	623.00	273.70	428.683	2,000	3/1/2016	N/A	2/26/2018
MW 10	Barium	3/22/2017	676.0	273.70	439.705	2,000	3/1/2016	N/A	2/26/2018
MW 10	Barium	8/24/2017	519.0	273.70	414.826	2,000	3/1/2016	N/A	2/26/2018
MW 10	Barium	2/26/2018	589.0	273.70	524.392	2,000	3/1/2016	N/A	2/26/2018
MW 10	Barium	8/29/2018	592.0	273.70	518.442	2,000	3/1/2016	N/A	2/26/2018
MW 10	Barium	3/18/2019	213.0	283.71	266.493	2,000	3/1/2016	N/A	2/26/2018
MW 10	Barium	9/10/2019	377.0	283.54	227.162	2,000	3/1/2016	N/A	2/26/2018
MW 10	Barium	3/25/2020	412.0	285.69	215.642	2,000	3/1/2016	N/A	2/26/2018
MW 10	Barium	9/4/2020	408.0	283.11	241.569	2,000	3/1/2016	N/A	2/26/2018
MW 10	Barium	3/2/2021	413.0	282.21	382.342	2,000	3/1/2016	N/A	2/26/2018
MW 10	Barium	9/2/2021	458.0	283.45	394.991	2,000	3/1/2016	N/A	2/26/2018
MW 10	Barium	3/2/2022	394.0	284.60	385.670	2,000	3/1/2016	N/A	2/26/2018
MW 10	Barium	8/29/2022	395.0	282.69	379.751	2,000	3/1/2016	N/A	2/26/2018
MW 10	Barium	3/23/2023	354.0	282.91	349.698	2,000	3/1/2016	N/A	2/26/2018
MW 10	Barium	9/25/2023	376.0	280.68	357.096	2,000	3/1/2016	N/A	2/26/2018
MW 10	Barium	3/5/2024	440.0	279.54	348.240	2,000	3/1/2016	N/A	2/26/2018
MW 10	Barium	9/30/2024	533.0	279.23	331.332	2,000	3/1/2016	N/A	2/26/2018
MW 10	Barium	3/6/2025	432.0	279.03	368.720	2,000	3/1/2016	N/A	2/26/2018
MW 10	Barium	9/17/2025	544.0	282.85	417.333	2,000	3/1/2016	N/A	2/26/2018

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Monitoring Well	Compound	Sample Date	Each Result (ug/L)	Prediction Limit (ug/L)	95% LCL (ug/L)	GWPS Limit (ug/L)	SSI Initial Exceedance	Resamples Due	5th Background Sample
MW 10	Cadmium	3/1/2016	<0.8	0.8	---	5	9/4/2020	N/A	2/26/2018
MW 10	Cadmium	9/9/2016	<0.8	0.8	---	5	9/4/2020	N/A	2/26/2018
MW 10	Cadmium	3/22/2017	<0.8	0.8	---	5	9/4/2020	N/A	2/26/2018
MW 10	Cadmium	8/24/2017	<0.8	0.8	0.400	5	9/4/2020	N/A	2/26/2018
MW 10	Cadmium	2/26/2018	<0.8	0.8	0.400	5	9/4/2020	N/A	2/26/2018
MW 10	Cadmium	8/29/2018	<0.8	0.8	0.400	5	9/4/2020	N/A	2/26/2018
MW 10	Cadmium	3/18/2019	<0.8	0.8	0.400	5	9/4/2020	N/A	2/26/2018
MW 10	Cadmium	9/10/2019	<0.8	0.8	0.400	5	9/4/2020	N/A	2/26/2018
MW 10	Cadmium	3/25/2020	<0.8	0.8	0.400	5	9/4/2020	N/A	2/26/2018
MW 10	Cadmium	9/4/2020	3.2	0.8	0.000	5	9/4/2020	N/A	2/26/2018
MW 10	Cadmium	3/2/2021	<0.8	0.8	0.000	5	9/4/2020	N/A	2/26/2018
MW 10	Cadmium	9/2/2021	<0.8	0.8	0.000	5	9/4/2020	N/A	2/26/2018
MW 10	Cadmium	3/2/2022	<0.8	0.8	0.000	5	9/4/2020	N/A	2/26/2018
MW 10	Cadmium	8/29/2022	<0.8	0.8	0.400	5	9/4/2020	N/A	2/26/2018
MW 10	Cadmium	3/23/2023	<0.8	0.8	0.400	5	9/4/2020	N/A	2/26/2018
MW 10	Cadmium	9/25/2023	<0.8	0.8	0.400	5	9/4/2020	N/A	2/26/2018
MW 10	Cadmium	3/5/2024	<0.8	0.8	0.400	5	9/4/2020	N/A	2/26/2018
MW 10	Cadmium	9/30/2024	<0.8	0.8	0.400	5	9/4/2020	N/A	2/26/2018
MW 10	Cadmium	3/6/2025	<0.8	0.8	0.400	5	9/4/2020	N/A	2/26/2018
MW 10	Cadmium	9/17/2025	0.4	0.8	0.400	5	9/4/2020	N/A	2/26/2018

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Tama County Sanitary Landfill
Permit No. 86-SDP-01-72P

KEY:	SSI	SSL LCL>GWPS

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

Monitoring Well	Compound	Sample Date	Each Result (ug/L)	Prediction Limit (ug/L)	95% LCL (ug/L)	GWPS Limit (ug/L)	SSI Initial Exceedance	Resamples Due	5th Background Sample
MW 10	Cobalt	3/1/2016	4.9	0.8	4.890	2.8	3/1/2016	N/A	2/26/2018
MW 10	Cobalt	9/9/2016	7.6	0.8	4.982	2.8	3/1/2016	N/A	2/26/2018
MW 10	Cobalt	3/22/2017	8.0	0.8	5.253	2.8	3/1/2016	N/A	2/26/2018
MW 10	Cobalt	8/24/2017	6.7	0.8	5.179	2.8	3/1/2016	N/A	2/26/2018
MW 10	Cobalt	2/26/2018	8.5	0.8	6.804	2.8	3/1/2016	N/A	2/26/2018
MW 10	Cobalt	8/29/2018	9.2	0.8	6.859	2.1	3/1/2016	N/A	2/26/2018
MW 10	Cobalt	3/18/2019	3.9	0.8	4.294	2.1	3/1/2016	N/A	2/26/2018
MW 10	Cobalt	9/10/2019	7.2	0.8	4.435	2.1	3/1/2016	N/A	2/26/2018
MW 10	Cobalt	3/25/2020	8.7	0.8	4.439	2.1	3/1/2016	N/A	2/26/2018
MW 10	Cobalt	9/4/2020	10.0	0.8	4.358	2.1	3/1/2016	N/A	2/26/2018
MW 10	Cobalt	3/2/2021	7.4	1.0	6.796	2.1	3/1/2016	N/A	2/26/2018
MW 10	Cobalt	9/2/2021	10.0	2.6	7.561	2.6	3/1/2016	N/A	2/26/2018
MW 10	Cobalt	3/2/2022	2.5	2.6	3.316	2.6	3/1/2016	N/A	2/26/2018
MW 10	Cobalt	8/29/2022	5.5	2.6	2.632	2.6	3/1/2016	N/A	2/26/2018
MW 10	Cobalt	3/23/2023	1.7	2.6	0.505	2.6	3/1/2016	N/A	2/26/2018
MW 10	Cobalt	9/25/2023	7.1	2.6	1.221	2.6	3/1/2016	N/A	2/26/2018
MW 10	Cobalt	3/5/2024	5.7	1.8	2.280	2.6	3/1/2016	N/A	2/26/2018
MW 10	Cobalt	9/30/2024	5.7	1.8	2.311	2.6	3/1/2016	N/A	2/26/2018
MW 10	Cobalt	3/6/2025	2.5	2.6	2.958	2.6	3/1/2016	N/A	2/26/2018
MW 10	Cobalt	9/17/2025	6.3	2.6	3.023	2.6	3/1/2016	N/A	2/26/2018

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MW 10	Nickel	3/1/2016	24.9	4.0	13.248	100	3/1/2016	N/A	2/26/2018
MW 10	Nickel	9/9/2016	17.6	4.0	14.372	100	3/1/2016	N/A	2/26/2018
MW 10	Nickel	3/22/2017	15.1	4.0	13.295	100	3/1/2016	N/A	2/26/2018
MW 10	Nickel	8/24/2017	12.6	4.0	11.306	100	3/1/2016	N/A	2/26/2018
MW 10	Nickel	2/26/2018	13.1	4.0	11.926	100	3/1/2016	N/A	2/26/2018
MW 10	Nickel	8/29/2018	16.3	4.0	12.241	100	3/1/2016	N/A	2/26/2018
MW 10	Nickel	3/18/2019	8.6	4.0	8.935	100	3/1/2016	N/A	2/26/2018
MW 10	Nickel	9/10/2019	9.2	4.0	7.562	100	3/1/2016	N/A	2/26/2018
MW 10	Nickel	3/25/2020	14.4	4.0	7.641	100	3/1/2016	N/A	2/26/2018
MW 10	Nickel	9/4/2020	15.8	4.0	7.726	100	3/1/2016	N/A	2/26/2018
MW 10	Nickel	3/2/2021	10.6	4.0	8.843	100	3/1/2016	N/A	2/26/2018
MW 10	Nickel	9/2/2021	12.6	4.0	10.700	100	3/1/2016	N/A	2/26/2018
MW 10	Nickel	3/2/2022	13.0	4.0	10.481	100	3/1/2016	N/A	2/26/2018
MW 10	Nickel	8/29/2022	12.8	4.0	10.942	100	3/1/2016	N/A	2/26/2018
MW 10	Nickel	3/23/2023	8.3	4.0	9.021	100	3/1/2016	N/A	2/26/2018
MW 10	Nickel	9/25/2023	15.4	4.0	8.890	100	3/1/2016	N/A	2/26/2018
MW 10	Nickel	3/5/2024	11.1	4.0	8.393	100	3/1/2016	N/A	2/26/2018
MW 10	Nickel	9/30/2024	13.5	4.0	8.463	100	3/1/2016	N/A	2/26/2018
MW 10	Nickel	3/6/2025	17.4	4.0	11.187	100	3/1/2016	N/A	2/26/2018
MW 10	Nickel	9/17/2025	16.0	4.0	11.227	100	3/1/2016	N/A	2/26/2018

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MW 10	Zinc	3/1/2016	<8.0	49.4	---	2,000	8/29/2018	N/A	2/26/2018
MW 10	Zinc	9/9/2016	17.8	49.4	---	2,000	8/29/2018	N/A	2/26/2018
MW 10	Zinc	3/22/2017	<8.0	49.4	---	2,000	8/29/2018	N/A	2/26/2018
MW 10	Zinc	8/24/2017	<8.0	49.4	---	2,000	8/29/2018	N/A	2/26/2018
MW 10	Zinc	2/26/2018	<8.0	49.4	---	2,000	8/29/2018	N/A	2/26/2018
MW 10	Zinc	8/29/2018	77.2	49.4	0.000	2,000	2/26/2018	N/A	2/26/2018
MW 10	Zinc	3/18/2019	25.1	49.4	0.000	2,000	2/26/2018	N/A	2/26/2018
MW 10	Zinc	9/10/2019	11.0	49.4	0.000	2,000	2/26/2018	N/A	2/26/2018
MW 10	Zinc	3/25/2020	<20.	49.4	0.000	2,000	2/26/2018	N/A	2/26/2018
MW 10	Zinc	9/4/2020	<20.	49.4	0.000	2,000	2/26/2018	N/A	2/26/2018
MW 10	Zinc	3/2/2021	<20.	49.4	1.633	2,000	2/26/2018	N/A	2/26/2018
MW 10	Zinc	9/2/2021	22.1.	49.4	0.000	2,000	2/26/2018	N/A	2/26/2018
MW 10	Zinc	3/2/2022	<20.	49.4	0.000	2,000	2/26/2018	N/A	2/26/2018
MW 10	Zinc	8/29/2022	<20.	49.4	0.000	2,000	2/26/2018	N/A	2/26/2018
MW 10	Zinc	3/23/2023	<20.	49.4	0.000	2,000	2/26/2018	N/A	2/26/2018
MW 10	Zinc	9/25/2023	<20.	49.4	10.000	2,000	2/26/2018	N/A	2/26/2018
MW 10	Zinc	3/5/2024	<20.	49.4	10.000	2,000	2/26/2018	N/A	2/26/2018
MW 10	Zinc	9/30/2024	<20.	49.4	10.000	2,000	2/26/2018	N/A	2/26/2018
MW 10	Zinc	3/6/2025	<20.	49.4	10.000	2,000	2/26/2018	N/A	2/26/2018
MW 10	Zinc	9/17/2025	8.8	49.4	10.000	2,000	2/26/2018	N/A	2/26/2018

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MW 10	1,4-dichlorobenzene	3/1/2016	<1.0	1.0	0.229	75	9/9/2016	N/A	2/26/2018
MW 10	1,4-dichlorobenzene	9/9/2016	1.1	1.0	0.365	75	9/9/2016	N/A	2/26/2018
MW 10	1,4-dichlorobenzene	3/22/2017	2.4	1.0	0.392	75	9/9/2016	N/A	2/26/2018
MW 10	1,4-dichlorobenzene	8/24/2017	2.3	1.0	0.483	75	9/9/2016	N/A	2/26/2018
MW 10	1,4-dichlorobenzene	2/26/2018	2.7	1.0	1.297	75	9/9/2016	N/A	2/26/2018
MW 10	1,4-dichlorobenzene	8/29/2018	3.0	1.0	2.228	75	9/9/2016	N/A	2/26/2018
MW 10	1,4-dichlorobenzene	3/18/2019	<1.0	1.0	0.807	75	9/9/2016	N/A	2/26/2018
MW 10	1,4-dichlorobenzene	9/10/2019	<1.0	1.0	0.073	75	9/9/2016	N/A	2/26/2018
MW 10	1,4-dichlorobenzene	3/25/2020	<1.0	1.0	0.000	75	9/9/2016	N/A	2/26/2018
MW 10	1,4-dichlorobenzene	9/4/2020	3.2	1.0	0.000	75	9/9/2016	N/A	2/26/2018
MW 10	1,4-dichlorobenzene	3/2/2021	2.3	1.0	0.037	75	9/9/2016	N/A	2/26/2018
MW 10	1,4-dichlorobenzene	9/2/2021	2.8	1.0	0.797	75	9/9/2016	N/A	2/26/2018
MW 10	1,4-dichlorobenzene	3/2/2022	<1.0	1.0	0.798	75	9/9/2016	N/A	2/26/2018
MW 10	1,4-dichlorobenzene	8/29/2022	2.0	1.0	0.736	75	9/9/2016	N/A	2/26/2018
MW 10	1,4-dichlorobenzene	3/23/2023	2.0	1.0	0.104	75	9/9/2016	N/A	2/26/2018
MW 10	1,4-dichlorobenzene	9/25/2023	1.9	1.0	0.239	75	9/9/2016	N/A	2/26/2018
MW 10	1,4-dichlorobenzene	3/5/2024	1.5	1.0	0.669	75	9/9/2016	N/A	2/26/2018
MW 10	1,4-dichlorobenzene	9/30/2024	2.5	1.0	0.611	75	9/9/2016	N/A	2/26/2018
MW 10	1,4-dichlorobenzene	3/6/2025	<1.0	1.0	0.611	75	9/9/2016	N/A	2/26/2018
MW 10	1,4-dichlorobenzene	9/17/2025	<1.0	1.0	0.611	75	9/9/2016	N/A	2/26/2018

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MW 10	Chlorobenzene	3/1/2016	<1.0	1.0	0.348	100	9/9/2016	N/A	2/26/2018
MW 10	Chlorobenzene	9/9/2016	1.1	1.0	0.346	100	9/9/2016	N/A	2/26/2018
MW 10	Chlorobenzene	3/22/2017	2.3	1.0	0.443	100	9/9/2016	N/A	2/26/2018
MW 10	Chlorobenzene	8/24/2017	2.3	1.0	0.491	100	9/9/2016	N/A	2/26/2018
MW 10	Chlorobenzene	2/26/2018	2.4	1.0	1.298	100	9/9/2016	N/A	2/26/2018
MW 10	Chlorobenzene	8/29/2018	2.6	1.0	2.234	100	9/9/2016	N/A	2/26/2018
MW 10	Chlorobenzene	3/18/2019	1.0	1.0	1.219	100	9/9/2016	N/A	2/26/2018
MW 10	Chlorobenzene	9/10/2019	2.4	1.0	1.230	100	9/9/2016	N/A	2/26/2018
MW 10	Chlorobenzene	3/25/2020	1.1	1.0	0.784	100	9/9/2016	N/A	2/26/2018
MW 10	Chlorobenzene	9/4/2020	2.5	1.0	1.223	100	9/9/2016	N/A	2/26/2018
MW 10	Chlorobenzene	3/2/2021	1.9	1.0	1.204	100	9/9/2016	N/A	2/26/2018
MW 10	Chlorobenzene	9/2/2021	2.7	1.0	0.798	100	9/9/2016	N/A	2/26/2018
MW 10	Chlorobenzene	3/2/2022	<1.0	1.0	0.732	100	9/9/2016	N/A	2/26/2018
MW 10	Chlorobenzene	8/29/2022	1.7	1.0	0.631	100	9/9/2016	N/A	2/26/2018
MW 10	Chlorobenzene	3/23/2023	<1.0	1.0	0.100	100	9/9/2016	N/A	2/26/2018
MW 10	Chlorobenzene	9/25/2023	1.7	1.0	0.285	100	9/9/2016	N/A	2/26/2018
MW 10	Chlorobenzene	3/5/2024	<1.0	1.0	0.285	100	9/9/2016	N/A	2/26/2018
MW 10	Chlorobenzene	9/30/2024	1.5	1.0	0.297	100	9/9/2016	N/A	2/26/2018
MW 10	Chlorobenzene	3/6/2025	<1.0	1.0	0.297	100	9/9/2016	N/A	2/26/2018
MW 10	Chlorobenzene	9/17/2025	<1.0	1.0	0.297	100	9/9/2016	N/A	2/26/2018

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MW 10	Chloroethane	3/1/2016	<1.0	1.0	0.500	2,800	3/22/2017	N/A	2/26/2018
MW 10	Chloroethane	9/9/2016	<1.0	1.0	0.500	2,800	3/22/2017	N/A	2/26/2018
MW 10	Chloroethane	3/22/2017	1.0	1.0	0.331	2,800	3/22/2017	N/A	2/26/2018
MW 10	Chloroethane	8/24/2017	<1.0	1.0	0.331	2,800	3/22/2017	N/A	2/26/2018
MW 10	Chloroethane	2/26/2018	<1.0	1.0	0.331	2,800	3/22/2017	N/A	2/26/2018
MW 10	Chloroethane	8/29/2018	1.0	1.0	0.410	2,800	3/22/2017	N/A	2/26/2018
MW 10	Chloroethane	3/18/2019	<1.0	1.0	0.331	2,800	3/22/2017	N/A	2/26/2018
MW 10	Chloroethane	9/10/2019	<1.0	1.0	0.331	2,800	3/22/2017	N/A	2/26/2018
MW 10	Chloroethane	3/25/2020	<1.0	1.0	0.331	2,800	3/22/2017	N/A	2/26/2018
MW 10	Chloroethane	9/4/2020	<1.0	1.0	0.500	2,800	3/22/2017	N/A	2/26/2018
MW 10	Chloroethane	3/2/2021	<1.0	1.0	0.500	2,800	3/22/2017	N/A	2/26/2018
MW 10	Chloroethane	9/2/2021	<1.0	1.0	0.500	2,800	3/22/2017	N/A	2/26/2018
MW 10	Chloroethane	3/2/2022	<1.0	1.0	0.500	2,800	3/22/2017	N/A	2/26/2018
MW 10	Chloroethane	8/29/2022	1.6	1.0	0.128	2,800	3/22/2017	N/A	2/26/2018
MW 10	Chloroethane	3/23/2023	<1.0	1.0	0.128	2,800	3/22/2017	N/A	2/26/2018
MW 10	Chloroethane	9/25/2023	<1.0	1.0	0.128	2,800	3/22/2017	N/A	2/26/2018
MW 10	Chloroethane	3/5/2024	<1.0	1.0	0.128	2,800	3/22/2017	N/A	2/26/2018
MW 10	Chloroethane	9/30/2024	<1.0	1.0	0.500	2,800	3/22/2017	N/A	2/26/2018
MW 10	Chloroethane	3/6/2025	<1.0	1.0	0.500	2,800	3/22/2017	N/A	2/26/2018
MW 10	Chloroethane	9/17/2025	<1.0	1.0	0.500	2,800	3/22/2017	N/A	2/26/2018

Bold GWPS = A Site Specific GWPS that is equal to the Prediction Limit. All other GWPS are IAC 567-137 Statewide Standards for Protected Groundwater.

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MW 27	Barium	3/1/2016	303.0	273.70	---	2000	3/1/2016	N/A	8/24/2017
MW 27	Barium	9/9/2016	293.0	273.70	---	2000	3/1/2016	N/A	8/24/2017
MW 27	Barium	1/26/2017	310.0	273.70	---	2000	3/1/2016	N/A	8/24/2017
MW 27	Barium	3/22/2017	301.0	273.70	293.523	2000	3/1/2016	N/A	8/24/2017
MW 27	Barium	8/24/2017	333.0	273.70	288.913	2000	3/1/2016	N/A	8/24/2017
MW 27	Barium	2/26/2018	306.0	273.70	295.851	2000	3/1/2016	N/A	8/24/2017
MW 27	Barium	8/29/2018	320.0	273.70	298.008	2000	3/1/2016	N/A	8/24/2017
MW 27	Barium	3/18/2019	330.0	283.71	307.928	2000	3/1/2016	N/A	8/24/2017
MW 27	Barium	9/10/2019	346.0	283.54	305.688	2000	3/1/2016	N/A	8/24/2017
MW 27	Barium	3/25/2020	329.0	285.69	318.531	2000	3/1/2016	N/A	8/24/2017
MW 27	Barium	9/4/2020	348.0	283.11	326.317	2000	3/1/2016	N/A	8/24/2017
MW 27	Barium	3/2/2021	312.0	282.21	313.965	2000	3/1/2016	N/A	8/24/2017
MW 27	Barium	9/2/2021	310.0	283.45	303.942	2000	3/1/2016	N/A	8/24/2017
MW 27	Barium	3/2/2022	287.0	284.60	284.610	2000	3/1/2016	N/A	8/24/2017
MW 27	Barium	8/29/2022	249.0	282.69	255.051	2000	3/1/2016	N/A	8/24/2017
MW 27	Barium	3/23/2023	234.0	282.69	229.105	2,000	3/1/2016	N/A	8/24/2017
MW 27	Barium	9/25/2023	204.0	280.68	202.905	2,000	3/1/2016	N/A	8/24/2017
MW 27	Barium	3/5/2024	194.0	279.54	190.117	2,000	3/1/2016	N/A	8/24/2017
MW 27	Barium	9/30/2024	200.0	279.23	187.046	2,000	3/1/2016	N/A	8/24/2017
MW 27	Barium	3/6/2025	154.0	279.03	168.050	2,000	3/1/2016	N/A	8/24/2017
MW 27	Barium	9/17/2025	175.0	282.85	162.759	2,000	3/1/2016	N/A	8/24/2017

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MW 27	Bis(2-ethylhexyl)phthalate	3/1/2016	NT	6.0	---	6	2/26/2018	N/A	9/10/2019
MW 27	Bis(2-ethylhexyl)phthalate	9/9/2016	NT	6.0	---	6	2/26/2018	N/A	9/10/2019
MW 27	Bis(2-ethylhexyl)phthalate	3/22/2017	<8	6.0	---	6	2/26/2018	N/A	9/10/2019
MW 27	Bis(2-ethylhexyl)phthalate	8/24/2017	NT	6.0	---	6	2/26/2018	N/A	9/10/2019
MW 27	Bis(2-ethylhexyl)phthalate	2/26/2018	71.0	6.0	---	6	2/26/2018	N/A	9/10/2019
MW 27	Bis(2-ethylhexyl)phthalate	8/29/2018	<6	6.0	---	6	2/26/2018	N/A	9/10/2019
MW 27	Bis(2-ethylhexyl)phthalate	3/18/2019	13.0	6.0	0.000	6	2/26/2018	N/A	9/10/2019
MW 27	Bis(2-ethylhexyl)phthalate	9/10/2019	<6	6.0	0.000	6	2/26/2018	N/A	9/10/2019
MW 27	Bis(2-ethylhexyl)phthalate	3/25/2020	<6	6.0	0.000	6	2/26/2018	N/A	9/10/2019
MW 27	Bis(2-ethylhexyl)phthalate	9/4/2020	<6	6.0	0.000	6	2/26/2018	N/A	9/10/2019
MW 27	Bis(2-ethylhexyl)phthalate	3/2/2021	<6	6.0	3.000	6	2/26/2018	N/A	9/10/2019
MW 27	Bis(2-ethylhexyl)phthalate	9/2/2021	NT	6.0	3.000	6	2/26/2018	N/A	9/10/2019
MW 27	Bis(2-ethylhexyl)phthalate	3/2/2022	<6	6.0	3.000	6	2/26/2018	N/A	9/10/2019
MW 27	Bis(2-ethylhexyl)phthalate	8/29/2022	NT	6.0	3.000	6	2/26/2018	N/A	9/10/2019
MW 27	Bis(2-ethylhexyl)phthalate	3/23/2023	<6	6.0	3.000	6	2/26/2018	N/A	9/10/2019
MW 27	Bis(2-ethylhexyl)phthalate	9/25/2023	NT	6.0	3.000	6	2/26/2018	N/A	9/10/2019
MW 27	Bis(2-ethylhexyl)phthalate	3/5/2024	NT	6.0	3.000	6	2/26/2018	N/A	9/10/2019
MW 27	Bis(2-ethylhexyl)phthalate	9/30/2024	NT	6.0	3.000	6	2/26/2018	N/A	9/10/2019
MW 27	Bis(2-ethylhexyl)phthalate	3/6/2025	NT	6.0	3.000	6	2/26/2018	N/A	9/10/2019
MW 27	Bis(2-ethylhexyl)phthalate	9/17/2025	NT	6.0	3.000	6	2/26/2018	N/A	9/10/2019

Bold GWPS = A Site Specific GWPS that is equal to the Prediction Limit. All other GWPS are IAC 567-137 Statewide Standards for Protected Groundwater.

Table 7
Summary of Ongoing & Newly Identified SSI
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Tama County Sanitary Landfill
Permit No. 86-SDP-01-72P

KEY:	SSI	SSL LCL>GWPS

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

Monitoring Well	Compound	Sample Date	Each Result (ug/L)	Prediction Limit (ug/L)	95% LCL (ug/L)	GWPS Limit (ug/L)	SSI Initial Exceedance	Resamples Due	5th Background Sample
MW 34	Arsenic	3/1/2016	<4.0	4.0	2.000	10	9/10/2019	N/A	2/26/2018
MW 34	Arsenic	9/9/2016	<4.0	4.0	2.000	10	9/10/2019	N/A	2/26/2018
MW 34	Arsenic	3/22/2017	<4.0	4.0	2.000	10	9/10/2019	N/A	2/26/2018
MW 34	Arsenic	8/24/2017	<4.0	4.0	2.000	10	9/10/2019	N/A	2/26/2018
MW 34	Arsenic	11/15/2017	<4.0	4.0	2.000	10	9/10/2019	N/A	2/26/2018
MW 34	Arsenic	2/26/2018	<4.0	4.0	2.000	10	9/10/2019	N/A	2/26/2018
MW 34	Arsenic	8/29/2018	<4.0	4.0	2.000	10	9/10/2019	N/A	2/26/2018
MW 34	Arsenic	3/18/2019	<4.0	4.0	2.000	10	9/10/2019	N/A	2/26/2018
MW 34	Arsenic	9/10/2019	4.4	4.0	1.188	10	9/10/2019	N/A	2/26/2018
MW 34	Arsenic	3/25/2020	<4.0	4.0	1.188	10	9/10/2019	N/A	2/26/2018
MW 34	Arsenic	9/4/2020	<4.0	4.0	1.188	10	9/10/2019	N/A	2/26/2018
MW 34	Arsenic	3/2/2021	<4.0	4.0	1.188	10	9/10/2019	N/A	2/26/2018
MW 34	Arsenic	9/2/2021	<4.0	4.0	2.000	10	9/10/2019	N/A	2/26/2018
MW 34	Arsenic	3/2/2022	<4.0	4.0	2.000	10	9/10/2019	N/A	2/26/2018
MW 34	Arsenic	8/29/2022	<4.0	4.0	2.000	10	9/10/2019	N/A	2/26/2018
MW 34	Arsenic	3/23/2023	<4.0	4.0	2.000	10	9/10/2019	N/A	2/26/2018
MW 34	Arsenic	9/25/2023	<4.0	4.0	2.000	10	9/10/2019	N/A	2/26/2018
MW 34	Arsenic	3/5/2024	<4.0	4.0	2.000	10	9/10/2019	N/A	2/26/2018
MW 34	Arsenic	9/30/2024	4.2	4.0	1.256	10	9/10/2019	N/A	2/26/2018
MW 34	Arsenic	3/6/2025	<4.0	4.0	1.256	10	9/10/2019	N/A	2/26/2018
MW 34	Arsenic	9/17/2025	3.40	4.0	1.619	10	9/10/2019	N/A	2/26/2018

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Permit No. 86-SDP-01-72P

KEY:	SSI	SSL LCL>GWPS

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

Monitoring Well	Compound	Sample Date	Each Result (ug/L)	Prediction Limit (ug/L)	95% LCL (ug/L)	GWPS Limit (ug/L)	SSI Initial Exceedance	Resamples Due	5th Background Sample
MW 34	Cobalt	3/1/2016	0.8	0.8	0.998	2.8	8/24/2017	N/A	2/26/2018
MW 34	Cobalt	9/9/2016	0.8	0.8	0.575	2.8	8/24/2017	N/A	2/26/2018
MW 34	Cobalt	3/22/2017	<0.8	0.8	0.575	2.8	8/24/2017	N/A	2/26/2018
MW 34	Cobalt	8/24/2017	3.2	0.8	0.349	2.8	8/24/2017	N/A	2/26/2018
MW 34	Cobalt	11/15/2017	<0.8	0.8	0.349	2.8	8/24/2017	N/A	2/26/2018
MW 34	Cobalt	2/26/2018	<0.8	0.8	0	2.8	8/24/2017	N/A	2/26/2018
MW 34	Cobalt	8/29/2018	<0.8	0.8	0	2.1	8/24/2017	N/A	2/26/2018
MW 34	Cobalt	3/18/2019	1.9	0.8	0	2.1	8/24/2017	N/A	2/26/2018
MW 34	Cobalt	9/10/2019	2.9	0.8	0	2.1	8/24/2017	N/A	2/26/2018
MW 34	Cobalt	3/25/2020	2.0	0.8	0.581	2.1	8/24/2017	N/A	2/26/2018
MW 34	Cobalt	9/4/2020	1.7	0.8	1.5	2.1	8/24/2017	N/A	2/26/2018
MW 34	Cobalt	3/2/2021	2.3	1.0	1.622	2.1	8/24/2017	N/A	2/26/2018
MW 34	Cobalt	9/2/2021	5.6	2.6	0.763	2.6	8/24/2017	N/A	2/26/2018
MW 34	Cobalt	3/2/2022	0.5	2.6	0.000	2.6	8/24/2017	N/A	2/26/2018
MW 34	Cobalt	8/29/2022	1.3	2.6	0.000	2.6	8/24/2017	N/A	2/26/2018
MW 34	Cobalt	3/23/2023	<0.4	2.6	0.000	2.6	8/24/2017	N/A	2/26/2018
MW 34	Cobalt	9/25/2023	1.6	2.6	0.254	2.6	8/24/2017	N/A	2/26/2018
MW 34	Cobalt	3/5/2024	0.5	1.8	0.254	2.6	8/24/2017	N/A	2/26/2018
MW 34	Cobalt	9/30/2024	5.4	1.8	0.000	2.6	8/24/2017	N/A	2/26/2018
MW 34	Cobalt	3/6/2025	<0.4	2.6	0.000	2.6	8/24/2017	N/A	2/26/2018
MW 34	Cobalt	9/17/2025	3.6	2.6	0.000	2.6	8/24/2017	N/A	2/26/2018

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KEY:	SSI	SSL LCL>GWPS

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Monitoring Well	Compound	Sample Date	Each Result (ug/L)	Prediction Limit (ug/L)	95% LCL (ug/L)	GWPS Limit (ug/L)	SSI Initial Exceedance	Resamples Due	5th Background Sample
MW 34	Nickel	3/1/2016	9.6	4.0	1.518	100	3/1/2016	N/A	2/26/2018
MW 34	Nickel	9/9/2016	7.9	4.0	4.840	100	3/1/2016	N/A	2/26/2018
MW 34	Nickel	3/22/2017	5.0	4.0	4.512	100	3/1/2016	N/A	2/26/2018
MW 34	Nickel	8/24/2017	14.7	4.0	4.512	100	3/1/2016	N/A	2/26/2018
MW 34	Nickel	2/26/2018	8.2	4.0	4.132	100	3/1/2016	N/A	2/26/2018
MW 34	Nickel	8/29/2018	4.3	4.0	2.466	100	3/1/2016	N/A	2/26/2018
MW 34	Nickel	3/18/2019	9.2	4.0	4.053	100	3/1/2016	N/A	2/26/2018
MW 34	Nickel	9/10/2019	12.0	4.0	4.678	100	3/1/2016	N/A	2/26/2018
MW 34	Nickel	3/25/2020	5.4	4.0	3.561	100	3/1/2016	N/A	2/26/2018
MW 34	Nickel	9/4/2020	11.3	4.0	5.986	100	3/1/2016	N/A	2/26/2018
MW 34	Nickel	3/2/2021	8.9	4.0	5.896	100	3/1/2016	N/A	2/26/2018
MW 34	Nickel	9/2/2021	13.9	4.0	5.623	100	3/1/2016	N/A	2/26/2018
MW 34	Nickel	3/2/2022	<4	4.0	3.015	100	3/1/2016	N/A	2/26/2018
MW 34	Nickel	8/29/2022	9.0	4.0	2.695	100	3/1/2016	N/A	2/26/2018
MW 34	Nickel	3/23/2023	<4	4.0	0.000	100	3/1/2016	N/A	2/26/2018
MW 34	Nickel	9/25/2023	10.0	4.0	0.634	100	3/1/2016	N/A	2/26/2018
MW 34	Nickel	3/5/2024	7.6	4.0	2.949	100	3/1/2016	N/A	2/26/2018
MW 34	Nickel	9/30/2024	15.9	4.0	2.100	100	3/1/2016	N/A	2/26/2018
MW 34	Nickel	3/6/2025	<4	4.0	2.100	100	3/1/2016	N/A	2/26/2018
MW 34	Nickel	9/17/2025	10.6	4.0	2.196	100	3/1/2016	N/A	2/26/2018

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Monitoring Well	Compound	Sample Date	Each Result (ug/L)	Prediction Limit (ug/L)	95% LCL (ug/L)	GWPS Limit (ug/L)	SSI Initial Exceedance	Resamples Due	5th Background Sample
MW 34	1,4-dichlorobenzene	3/1/2016	8.8	1.0	0.000	75	3/1/2016	N/A	2/26/2018
MW 34	1,4-dichlorobenzene	9/9/2016	8.7	1.0	1.374	75	3/1/2016	N/A	2/26/2018
MW 34	1,4-dichlorobenzene	3/22/2017	4.9	1.0	4.700	75	3/1/2016	N/A	2/26/2018
MW 34	1,4-dichlorobenzene	8/24/2017	7.9	1.0	5.424	75	3/1/2016	N/A	2/26/2018
MW 34	1,4-dichlorobenzene	2/26/2018	2.1	1.0	2.353	75	3/1/2016	N/A	2/26/2018
MW 34	1,4-dichlorobenzene	8/29/2018	2.6	1.0	1.261	75	3/1/2016	N/A	2/26/2018
MW 34	1,4-dichlorobenzene	3/18/2019	<1.0	1.0	0.000	75	3/1/2016	N/A	2/26/2018
MW 34	1,4-dichlorobenzene	9/10/2019	<1.0	1.0	0.146	75	3/1/2016	N/A	2/26/2018
MW 34	1,4-dichlorobenzene	3/25/2020	<1.0	1.0	0.000	75	3/1/2016	N/A	2/26/2018
MW 34	1,4-dichlorobenzene	9/4/2020	7.0	1.0	0.000	75	3/1/2016	N/A	2/26/2018
MW 34	1,4-dichlorobenzene	3/2/2021	10.6	1.0	0.000	75	3/1/2016	N/A	2/26/2018
MW 34	1,4-dichlorobenzene	9/2/2021	7.9	1.0	1.463	75	3/1/2016	N/A	2/26/2018
MW 34	1,4-dichlorobenzene	3/2/2022	1.5	1.0	2.257	75	3/1/2016	N/A	2/26/2018
MW 34	1,4-dichlorobenzene	8/29/2022	3.9	1.0	1.200	75	3/1/2016	N/A	2/26/2018
MW 34	1,4-dichlorobenzene	3/23/2023	1.1	1.0	0.000	75	3/1/2016	N/A	2/26/2018
MW 34	1,4-dichlorobenzene	9/25/2023	9.4	1.0	0.000	75	3/1/2016	N/A	2/26/2018
MW 34	1,4-dichlorobenzene	3/5/2024	<1.0	1.0	0.000	75	3/1/2016	N/A	2/26/2018
MW 34	1,4-dichlorobenzene	9/30/2024	1.4	1.0	0.000	75	3/1/2016	N/A	2/26/2018
MW 34	1,4-dichlorobenzene	3/6/2025	<1.0	1.0	0.000	75	3/1/2016	N/A	2/26/2018
MW 34	1,4-dichlorobenzene	9/17/2025	2.4	1.0	0.135	75	3/1/2016	N/A	2/26/2018

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Monitoring Well	Compound	Sample Date	Each Result (ug/L)	Prediction Limit (ug/L)	95% LCL (ug/L)	GWPS Limit (ug/L)	SSI Initial Exceedance	Resamples Due	5th Background Sample
MW 34	Benzene	3/1/2016	<1.0	1.0	0.196	5	3/22/2017	N/A	2/26/2018
MW 34	Benzene	9/9/2016	<1.0	1.0	0.196	5	3/22/2017	N/A	2/26/2018
MW 34	Benzene	3/22/2017	1.2	1.0	0.348	5	3/22/2017	N/A	2/26/2018
MW 34	Benzene	8/24/2017	1.3	1.0	0.363	5	3/22/2017	N/A	2/26/2018
MW 34	Benzene	2/26/2018	<1.0	1.0	0.363	5	3/22/2017	N/A	2/26/2018
MW 34	Benzene	8/29/2018	<1.0	1.0	0.363	5	3/22/2017	N/A	2/26/2018
MW 34	Benzene	3/18/2019	<1.0	1.0	0.229	5	3/22/2017	N/A	2/26/2018
MW 34	Benzene	9/10/2019	<1.0	1.0	0.500	5	3/22/2017	N/A	2/26/2018
MW 34	Benzene	3/25/2020	<1.0	1.0	0.500	5	3/22/2017	N/A	2/26/2018
MW 34	Benzene	9/4/2020	<1.0	1.0	0.500	5	3/22/2017	N/A	2/26/2018
MW 34	Benzene	3/2/2021	1.8	1.0	0.060	5	3/22/2017	N/A	2/26/2018
MW 34	Benzene	9/2/2021	<1.0	1.0	0.060	5	3/22/2017	N/A	2/26/2018
MW 34	Benzene	3/2/2022	<1.0	1.0	0.060	5	3/22/2017	N/A	2/26/2018
MW 34	Benzene	8/29/2022	<1.0	1.0	0.060	5	3/22/2017	N/A	2/26/2018
MW 34	Benzene	3/23/2023	<1.0	1.0	0.500	5	3/22/2017	N/A	2/26/2018
MW 34	Benzene	9/25/2023	<1.0	1.0	0.500	5	3/22/2017	N/A	2/26/2018
MW 34	Benzene	3/5/2024	<1.0	1.0	0.500	5	3/22/2017	N/A	2/26/2018
MW 34	Benzene	9/30/2024	<1.0	1.0	0.500	5	3/22/2017	N/A	2/26/2018
MW 34	Benzene	3/6/2025	<1.0	1.0	0.500	5	3/22/2017	N/A	2/26/2018
MW 34	Benzene	9/17/2025	<1.0	1.0	0.500	5	3/22/2017	N/A	2/26/2018

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Monitoring Well	Compound	Sample Date	Each Result (ug/L)	Prediction Limit (ug/L)	95% LCL (ug/L)	GWPS Limit (ug/L)	SSI Initial Exceedance	Resamples Due	5th Background Sample
MW 34	Bis(2-ethylhexyl)phthalate	3/1/2016	<10	6.0	---	6	2/26/2018	N/A	2/26/2018
MW 34	Bis(2-ethylhexyl)phthalate	9/9/2016	<10	6.0	---	6	2/26/2018	N/A	2/26/2018
MW 34	Bis(2-ethylhexyl)phthalate	3/22/2017	<10	6.0	---	6	2/26/2018	N/A	2/26/2018
MW 34	Bis(2-ethylhexyl)phthalate	8/24/2017	<6	6.0	5.000	6	2/26/2018	N/A	2/26/2018
MW 34	Bis(2-ethylhexyl)phthalate	2/26/2018	145.0	6.0	0.000	6	2/26/2018	N/A	2/26/2018
MW 34	Bis(2-ethylhexyl)phthalate	8/29/2018	<6	6.0	0.000	6	2/26/2018	N/A	2/26/2018
MW 34	Bis(2-ethylhexyl)phthalate	3/18/2019	<6	6.0	0.000	6	2/26/2018	N/A	2/26/2018
MW 34	Bis(2-ethylhexyl)phthalate	9/10/2019	46.0	6.0	0.000	6	2/26/2018	N/A	2/26/2018
MW 34	Bis(2-ethylhexyl)phthalate	3/25/2020	<6	6.0	0.000	6	2/26/2018	N/A	2/26/2018
MW 34	Bis(2-ethylhexyl)phthalate	9/4/2020	<6	6.0	0.000	6	2/26/2018	N/A	2/26/2018
MW 34	Bis(2-ethylhexyl)phthalate	3/2/2021	<6	6.0	0.000	6	2/26/2018	N/A	2/26/2018
MW 34	Bis(2-ethylhexyl)phthalate	9/2/2021	NT	6.0	0.000	6	2/26/2018	N/A	2/26/2018
MW 34	Bis(2-ethylhexyl)phthalate	3/2/2022	8.0	6.0	1.309	6	2/26/2018	N/A	2/26/2018
MW 34	Bis(2-ethylhexyl)phthalate	8/29/2022	<6	6.0	1.309	6	2/26/2018	N/A	2/26/2018
MW 34	Bis(2-ethylhexyl)phthalate	3/23/2023	<6	6.0	1.309	6	2/26/2018	N/A	2/26/2018
MW 34	Bis(2-ethylhexyl)phthalate	9/25/2023	NT	6.0	1.309	6	2/26/2018	N/A	2/26/2018
MW 34	Bis(2-ethylhexyl)phthalate	3/5/2024	NT	6.0	1.309	6	2/26/2018	N/A	2/26/2018
MW 34	Bis(2-ethylhexyl)phthalate	9/30/2024	NT	6.0	1.309	6	2/26/2018	N/A	2/26/2018
MW 34	Bis(2-ethylhexyl)phthalate	3/6/2025	NT	6.0	1.309	6	2/26/2018	N/A	2/26/2018
MW 34	Bis(2-ethylhexyl)phthalate	9/17/2025	NT	6.0	1.309	6	2/26/2018	N/A	2/26/2018

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Monitoring Well	Compound	Sample Date	Each Result (ug/L)	Prediction Limit (ug/L)	95% LCL (ug/L)	GWPS Limit (ug/L)	SSI Initial Exceedance	Resamples Due	5th Background Sample
MW 34	Chlorobenzene	3/1/2016	2.8	1.0	0.104	100	3/1/2016	N/A	2/26/2018
MW 34	Chlorobenzene	9/9/2016	2.7	1.0	0.751	100	3/1/2016	N/A	2/26/2018
MW 34	Chlorobenzene	3/22/2017	2.0	1.0	1.863	100	3/1/2016	N/A	2/26/2018
MW 34	Chlorobenzene	8/24/2017	3.0	1.0	2.113	100	3/1/2016	N/A	2/26/2018
MW 34	Chlorobenzene	2/26/2018	<1.0	1.0	0.738	100	3/1/2016	N/A	2/26/2018
MW 34	Chlorobenzene	8/29/2018	<1.0	1.0	0.059	100	3/1/2016	N/A	2/26/2018
MW 34	Chlorobenzene	3/18/2019	1.2	1.0	0.000	100	3/1/2016	N/A	2/26/2018
MW 34	Chlorobenzene	9/10/2019	1.8	1.0	0.262	100	3/1/2016	N/A	2/26/2018
MW 34	Chlorobenzene	3/25/2020	<1.0	1.0	0.262	100	3/1/2016	N/A	2/26/2018
MW 34	Chlorobenzene	9/4/2020	2.6	1.0	0.476	100	3/1/2016	N/A	2/26/2018
MW 34	Chlorobenzene	3/2/2021	4.1	1.0	0.478	100	3/1/2016	N/A	2/26/2018
MW 34	Chlorobenzene	9/2/2021	3.4	1.0	0.816	100	3/1/2016	N/A	2/26/2018
MW 34	Chlorobenzene	3/2/2022	<1.0	1.0	0.816	100	3/1/2016	N/A	2/26/2018
MW 34	Chlorobenzene	8/29/2022	1.7	1.0	0.506	100	3/1/2016	N/A	2/26/2018
MW 34	Chlorobenzene	3/23/2023	<1.0	1.0	0.000	100	3/1/2016	N/A	2/26/2018
MW 34	Chlorobenzene	9/25/2023	1.8	1.0	0.275	100	3/1/2016	N/A	2/26/2018
MW 34	Chlorobenzene	3/5/2024	<1.0	1.0	0.275	100	3/1/2016	N/A	2/26/2018
MW 34	Chlorobenzene	9/30/2024	<1.0	1.0	0.060	100	3/1/2016	N/A	2/26/2018
MW 34	Chlorobenzene	3/6/2025	<1.0	1.0	0.060	100	3/1/2016	N/A	2/26/2018
MW 34	Chlorobenzene	9/17/2025	1.7	1.0	0.094	100	3/1/2016	N/A	2/26/2018

Table 7
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Tama County Sanitary Landfill
Permit No. 86-SDP-01-72P

KEY:	SSI	SSL LCL>GWPS

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

Monitoring Well	Compound	Sample Date	Each Result (ug/L)	Prediction Limit (ug/L)	95% LCL (ug/L)	GWPS Limit (ug/L)	SSI Initial Exceedance	Resamples Due	5th Background Sample
MW 34	Chloroethane	3/1/2016	2.6	1.0	---	2,800	3/1/2016	N/A	2/26/2018
MW 34	Chloroethane	9/9/2016	<1.0	1.0	0.128	2,800	3/1/2016	N/A	2/26/2018
MW 34	Chloroethane	3/22/2017	<1.0	1.0	0.128	2,800	3/1/2016	N/A	2/26/2018
MW 34	Chloroethane	8/24/2017	<1.0	1.0	0.128	2,800	3/1/2016	N/A	2/26/2018
MW 34	Chloroethane	2/26/2018	<1.0	1.0	0.500	2,800	3/1/2016	N/A	2/26/2018
MW 34	Chloroethane	8/29/2018	<1.0	1.0	0.500	2,800	3/1/2016	N/A	2/26/2018
MW 34	Chloroethane	3/18/2019	<1.0	1.0	0.500	2,800	3/1/2016	N/A	2/26/2018
MW 34	Chloroethane	9/10/2019	<1.0	1.0	0.500	2,800	3/1/2016	N/A	2/26/2018
MW 34	Chloroethane	3/25/2020	<1.0	1.0	0.500	2,800	3/1/2016	N/A	2/26/2018
MW 34	Chloroethane	9/4/2020	<1.0	1.0	0.500	2,800	3/1/2016	N/A	2/26/2018
MW 34	Chloroethane	3/2/2021	<1.0	1.0	0.500	2,800	3/1/2016	N/A	2/26/2018
MW 34	Chloroethane	9/2/2021	<1.0	1.0	0.500	2,800	3/1/2016	N/A	2/26/2018
MW 34	Chloroethane	3/2/2022	<1.0	1.0	0.500	2,800	3/1/2016	N/A	2/26/2018
MW 34	Chloroethane	8/29/2022	<1.0	1.0	0.500	2,800	3/1/2016	N/A	2/26/2018
MW 34	Chloroethane	3/23/2023	<1.0	1.0	0.500	2,800	3/1/2016	N/A	2/26/2018
MW 34	Chloroethane	9/25/2023	<1.0	1.0	0.500	2,800	3/1/2016	N/A	2/26/2018
MW 34	Chloroethane	3/5/2024	<1.0	1.0	0.500	2,800	3/1/2016	N/A	2/26/2018
MW 34	Chloroethane	9/30/2024	<1.0	1.0	0.500	2,800	3/1/2016	N/A	2/26/2018
MW 34	Chloroethane	3/6/2025	<1.0	1.0	0.500	2,800	3/1/2016	N/A	2/26/2018
MW 34	Chloroethane	9/17/2025	<1.0	1.0	0.500	2,800	3/1/2016	N/A	2/26/2018

Bold GWPS = A Site Specific GWPS that is equal to the Prediction Limit. All other GWPS are IAC 567-137 Statewide Standards for Protected Groundwater.

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Monitoring Well	Compound	Sample Date	Each Result (ug/L)	Prediction Limit (ug/L)	95% LCL (ug/L)	GWPS Limit (ug/L)	SSI Initial Exceedance	Resamples Due	5th Background Sample
MW 35	Barium	3/1/2016	676.0	273.70	656.848	2000	3/1/2016	N/A	2/26/2018
MW 35	Barium	9/9/2016	664.0	273.70	654.497	2000	3/1/2016	N/A	2/26/2018
MW 35	Barium	3/22/2017	629.0	273.70	633.331	2000	3/1/2016	N/A	2/26/2018
MW 35	Barium	8/24/2017	667.0	273.70	634.722	2000	3/1/2016	N/A	2/26/2018
MW 35	Barium	2/26/2018	637.0	273.70	626.800	2000	3/1/2016	N/A	2/26/2018
MW 35	Barium	8/29/2018	580.0	273.70	585.802	2000	3/1/2016	N/A	2/26/2018
MW 35	Barium	3/18/2019	1230.0	283.71	421.902	2000	3/1/2016	N/A	2/26/2018
MW 35	Barium	9/10/2019	387.0	283.54	280.621	2000	3/1/2016	N/A	2/26/2018
MW 35	Barium	3/25/2020	543.0	285.69	246.438	2000	3/1/2016	N/A	2/26/2018
MW 35	Barium	9/4/2020	268.0	283.11	100.810	2000	3/1/2016	N/A	2/26/2018
MW 35	Barium	3/2/2021	481.0	282.21	278.853	2000	3/1/2016	N/A	2/26/2018
MW 35	Barium	9/2/2021	248.0	283.45	289.687	2000	3/1/2016	N/A	2/26/2018
MW 35	Barium	3/2/2022	483.0	284.60	217.569	2000	3/1/2016	N/A	2/26/2018
MW 35	Barium	8/29/2022	372.0	282.69	264.884	2000	3/1/2016	N/A	2/26/2018
MW 35	Barium	3/23/2023	451.0	282.91	265.412	2000	3/1/2016	N/A	2/26/2018
MW 35	Barium	9/25/2023	378.0	280.68	356.594	2,000	3/1/2016	N/A	2/26/2018
MW 35	Barium	3/5/2024	460.0	279.54	360.334	2,000	3/1/2016	N/A	2/26/2018
MW 35	Barium	9/30/2024	448.0	279.23	389.733	2,000	3/1/2016	N/A	2/26/2018
MW 35	Barium	3/6/2025	435.0	279.03	387.552	2,000	3/1/2016	N/A	2/26/2018
MW 35	Barium	9/17/2025	454.0	282.85	436.677	2,000	3/1/2016	N/A	2/26/2018

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Monitoring Well	Compound	Sample Date	Each Result (ug/L)	Prediction Limit (ug/L)	95% LCL (ug/L)	GWPS Limit (ug/L)	SSI Initial Exceedance	Resamples Due	5th Background Sample
MW 35	Cobalt	3/1/2016	<0.8	0.8	0.400	2.8	9/10/2019	N/A	2/26/2018
MW 35	Cobalt	9/9/2016	<0.8	0.8	0.400	2.8	9/10/2019	N/A	2/26/2018
MW 35	Cobalt	3/22/2017	<0.8	0.8	0.400	2.8	9/10/2019	N/A	2/26/2018
MW 35	Cobalt	8/24/2017	<0.8	0.8	0.400	2.8	9/10/2019	N/A	2/26/2018
MW 35	Cobalt	2/26/2018	<0.8	0.8	0.400	2.1	9/10/2019	N/A	2/26/2018
MW 35	Cobalt	8/29/2018	<0.8	0.8	0.400	2.1	9/10/2019	N/A	2/26/2018
MW 35	Cobalt	3/18/2019	<0.8	0.8	0.400	2.1	9/10/2019	N/A	2/26/2018
MW 35	Cobalt	9/10/2019	4.4	0.8	0.000	2.1	9/10/2019	N/A	2/26/2018
MW 35	Cobalt	3/25/2020	<0.8	0.8	0.000	2.1	9/10/2019	N/A	2/26/2018
MW 35	Cobalt	9/4/2020	0.4	0.8	0.000	2.1	9/10/2019	N/A	2/26/2018
MW 35	Cobalt	3/2/2021	1.5	1.0	0.000	2.1	9/10/2019	N/A	2/26/2018
MW 35	Cobalt	9/2/2021	8.1	2.6	0.000	2.6	9/10/2019	N/A	2/26/2018
MW 35	Cobalt	3/2/2022	1.5	2.6	0.000	2.6	9/10/2019	N/A	2/26/2018
MW 35	Cobalt	8/29/2022	<0.4	2.6	0.000	2.6	9/10/2019	N/A	2/26/2018
MW 35	Cobalt	3/23/2023	<0.4	2.6	0.000	2.6	9/10/2019	N/A	2/26/2018
MW 35	Cobalt	9/25/2023	<0.4	2.6	0.028	2.6	9/10/2019	N/A	2/26/2018
MW 35	Cobalt	3/5/2024	<0.4	1.8	0.200	2.6	9/10/2019	N/A	2/26/2018
MW 35	Cobalt	9/30/2024	<0.4	1.8	0.200	2.6	9/10/2019	N/A	2/26/2018
MW 35	Cobalt	3/6/2025	<0.4	2.6	0.200	2.6	9/10/2019	N/A	2/26/2018
MW 35	Cobalt	9/17/2025	<0.5	2.6	0.200	2.6	9/10/2019	N/A	2/26/2018

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Monitoring Well	Compound	Sample Date	Each Result (ug/L)	Prediction Limit (ug/L)	95% LCL (ug/L)	GWPS Limit (ug/L)	SSI Initial Exceedance	Resamples Due	5th Background Sample
MW 35	Nickel	3/1/2016	<4.0	4.0	2.000	100	9/10/2019	N/A	2/26/2018
MW 35	Nickel	9/9/2016	<4.0	4.0	2.000	100	9/10/2019	N/A	2/26/2018
MW 35	Nickel	3/22/2017	<4.0	4.0	2.000	100	9/10/2019	N/A	2/26/2018
MW 35	Nickel	8/24/2017	<4.0	4.0	2.000	100	9/10/2019	N/A	2/26/2018
MW 35	Nickel	2/26/2018	<4.0	4.0	2.000	100	9/10/2019	N/A	2/26/2018
MW 35	Nickel	8/29/2018	<4.0	4.0	2.000	100	9/10/2019	N/A	2/26/2018
MW 35	Nickel	3/18/2019	<4.0	4.0	2.000	100	9/10/2019	N/A	2/26/2018
MW 35	Nickel	9/10/2019	6.7	4.0	0.411	100	9/10/2019	N/A	2/26/2018
MW 35	Nickel	3/25/2020	<4.0	4.0	0.411	100	9/10/2019	N/A	2/26/2018
MW 35	Nickel	9/4/2020	<4.0	4.0	0.411	100	9/10/2019	N/A	2/26/2018
MW 35	Nickel	3/2/2021	<4.0	4.0	0.411	100	9/10/2019	N/A	2/26/2018
MW 35	Nickel	9/2/2021	4.4	4.0	1.188	100	9/10/2019	N/A	2/26/2018
MW 35	Nickel	3/2/2022	<4.0	4.0	1.188	100	9/10/2019	N/A	2/26/2018
MW 35	Nickel	8/29/2022	<4.0	4.0	1.188	100	9/10/2019	N/A	2/26/2018
MW 35	Nickel	3/23/2023	<4.0	4.0	1.188	100	9/10/2019	N/A	2/26/2018
MW 35	Nickel	9/25/2023	<4.0	4.0	2.000	100	9/10/2019	N/A	2/26/2018
MW 35	Nickel	3/5/2024	<4.0	4.0	2.000	100	9/10/2019	N/A	2/26/2018
MW 35	Nickel	9/30/2024	<4.0	4.0	2.000	100	9/10/2019	N/A	2/26/2018
MW 35	Nickel	3/6/2025	<4.0	4.0	2.000	100	9/10/2019	N/A	2/26/2018
MW 35	Nickel	9/17/2025	<5.0	4.0	2.000	100	9/10/2019	N/A	2/26/2018

Table 7
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KEY:	SSI	SSL LCL>GWPS

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Monitoring Well	Compound	Sample Date	Each Result (ug/L)	Prediction Limit (ug/L)	95% LCL (ug/L)	GWPS Limit (ug/L)	SSI Initial Exceedance	Resamples Due	5th Background Sample
MW 35	Zinc	3/1/2016	<8.0	49.4	---	2,000	8/29/2018	N/A	2/26/2018
MW 35	Zinc	9/9/2016	<8.0	49.4	---	2,000	8/29/2018	N/A	2/26/2018
MW 35	Zinc	3/22/2017	<8.0	49.4	---	2,000	8/29/2018	N/A	2/26/2018
MW 35	Zinc	8/24/2017	<8.0	49.4	---	2,000	8/29/2018	N/A	2/26/2018
MW 35	Zinc	2/26/2018	<8.0	49.4	---	2,000	8/29/2018	N/A	2/26/2018
MW 35	Zinc	8/29/2018	68.4	49.4	0.000	2,000	8/29/2018	N/A	2/26/2018
MW 35	Zinc	3/18/2019	46.7	49.4	0.000	2,000	8/29/2018	N/A	2/26/2018
MW 35	Zinc	9/10/2019	9.0	49.4	0.000	2,000	8/29/2018	N/A	2/26/2018
MW 35	Zinc	3/25/2020	<20.	49.4	0.000	2,000	8/29/2018	N/A	2/26/2018
MW 35	Zinc	9/4/2020	<20.	49.4	0.000	2,000	8/29/2018	N/A	2/26/2018
MW 35	Zinc	3/2/2021	<20.	49.4	2.309	2,000	8/29/2018	N/A	2/26/2018
MW 35	Zinc	9/2/2021	<20.	49.4	10.000	2,000	8/29/2018	N/A	2/26/2018
MW 35	Zinc	3/2/2022	<20.	49.4	10.000	2,000	8/29/2018	N/A	2/26/2018
MW 35	Zinc	8/29/2022	<20.	49.4	10.000	2,000	8/29/2018	N/A	2/26/2018
MW 35	Zinc	8/29/2022	<20.	49.4	10.000	2,000	8/29/2018	N/A	2/26/2018
MW 35	Zinc	8/29/2022	<20.	49.4	10.000	2,000	8/29/2018	N/A	2/26/2018
MW 35	Zinc	3/5/2024	<20.	49.4	10.000	2,000	8/29/2018	N/A	2/26/2018
MW 35	Zinc	9/30/2024	<20.	49.4	10.000	2,000	8/29/2018	N/A	2/26/2018
MW 35	Zinc	3/6/2025	<20.	49.4	10.000	2,000	8/29/2018	N/A	2/26/2018
MW 35	Zinc	9/17/2025	<5.	49.4	10.000	2,000	8/29/2018	N/A	2/26/2018

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Monitoring Well	Compound	Sample Date	Each Result (ug/L)	Prediction Limit (ug/L)	95% LCL (ug/L)	GWPS Limit (ug/L)	SSI Initial Exceedance	Resamples Due	5th Background Sample
MW 35	dichlorodifluoromethane	3/1/2016	5.9	1.0	0.349	1000	3/1/2016	N/A	2/26/2018
MW 35	dichlorodifluoromethane	9/9/2016	4.3	1.0	1.082	1000	3/1/2016	N/A	2/26/2018
MW 35	dichlorodifluoromethane	3/22/2017	3.4	1.0	0.859	1000	3/1/2016	N/A	2/26/2018
MW 35	dichlorodifluoromethane	8/24/2017	3.1	1.0	2.695	1000	3/1/2016	N/A	2/26/2018
MW 35	dichlorodifluoromethane	2/26/2018	2.1	1.0	2.158	1000	3/1/2016	N/A	2/26/2018
MW 35	dichlorodifluoromethane	8/29/2018	1.8	1.0	1.694	1,000	3/1/2016	N/A	2/26/2018
MW 35	dichlorodifluoromethane	3/18/2019	1.1	1.0	1.048	1,000	3/1/2016	N/A	2/26/2018
MW 35	dichlorodifluoromethane	9/10/2019	1.5	1.0	1.122	1,000	3/1/2016	N/A	2/26/2018
MW 35	dichlorodifluoromethane	3/25/2020	2.1	1.0	1.122	1,000	3/1/2016	N/A	2/26/2018
MW 35	dichlorodifluoromethane	9/4/2020	<1.0	1.0	0.508	1,000	3/1/2016	N/A	2/26/2018
MW 35	dichlorodifluoromethane	3/2/2021	<1.0	1.0	0.221	1,000	3/1/2016	N/A	2/26/2018
MW 35	dichlorodifluoromethane	9/2/2021	<1.0	1.0	0.000	1,000	3/1/2016	N/A	2/26/2018
MW 35	dichlorodifluoromethane	3/2/2022	1.5	1.0	0.162	1,000	3/1/2016	N/A	2/26/2018
MW 35	dichlorodifluoromethane	8/29/2022	1.5	1.0	0.321	1,000	3/1/2016	N/A	2/26/2018
MW 35	dichlorodifluoromethane	3/23/2023	<1.0	1.0	0.321	1,000	3/1/2016	N/A	2/26/2018
MW 35	dichlorodifluoromethane	9/25/2023	<1.0	1.0	0.321	1,000	3/1/2016	N/A	2/26/2018
MW 35	dichlorodifluoromethane	3/5/2024	1.2	1.0	0.330	1,000	3/1/2016	N/A	2/26/2018
MW 35	dichlorodifluoromethane	9/30/2024	1.2	1.0	0.375	1,000	3/1/2016	N/A	2/26/2018
MW 35	dichlorodifluoromethane	3/6/2025	<1.0	1.0	0.375	1,000	3/1/2016	N/A	2/26/2018
MW 35	dichlorodifluoromethane	9/17/2025	1.8	1.0	0.550	1,000	3/1/2016	N/A	2/26/2018

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Monitoring Well	Compound	Sample Date	Each Result (ug/L)	Prediction Limit (ug/L)	95% LCL (ug/L)	GWPS Limit (ug/L)	SSI Initial Exceedance	Resamples Due	5th Background Sample
MW 35	1,1-dichloroethane	3/1/2016	2.2	1.0	0.000	140	3/1/2016	N/A	2/26/2018
MW 35	1,1-dichloroethane	9/9/2016	1.9	1.0	0.213	140	3/1/2016	N/A	2/26/2018
MW 35	1,1-dichloroethane	3/22/2017	1.7	1.0	0.698	140	3/1/2016	N/A	2/26/2018
MW 35	1,1-dichloroethane	8/24/2017	<1.0	1.0	0.698	140	3/1/2016	N/A	2/26/2018
MW 35	1,1-dichloroethane	2/26/2018	1.9	1.0	0.708	140	3/1/2016	N/A	2/26/2018
MW 35	1,1-dichloroethane	8/29/2018	1.5	1.0	0.669	140	3/1/2016	N/A	2/26/2018
MW 35	1,1-dichloroethane	3/18/2019	1.2	1.0	0.580	140	3/1/2016	N/A	2/26/2018
MW 35	1,1-dichloroethane	9/10/2019	1.3	1.0	1.111	140	3/1/2016	N/A	2/26/2018
MW 35	1,1-dichloroethane	3/25/2020	1.0	1.0	1.005	140	3/1/2016	N/A	2/26/2018
MW 35	1,1-dichloroethane	9/4/2020	<1.0	1.0	0.581	140	3/1/2016	N/A	2/26/2018
MW 35	1,1-dichloroethane	3/2/2021	<1.0	1.0	0.361	140	3/1/2016	N/A	2/26/2018
MW 35	1,1-dichloroethane	9/2/2021	<1.0	1.0	0.331	140	3/1/2016	N/A	2/26/2018
MW 35	1,1-dichloroethane	3/2/2022	<1.0	1.0	0.500	140	3/1/2016	N/A	2/26/2018
MW 35	1,1-dichloroethane	8/29/2022	<1.0	1.0	0.500	140	3/1/2016	N/A	2/26/2018
MW 35	1,1-dichloroethane	3/23/2023	<1.0	1.0	0.500	140	3/1/2016	N/A	2/26/2018
MW 35	1,1-dichloroethane	9/25/2023	<1.0	1.0	0.500	140	3/1/2016	N/A	2/26/2018
MW 35	1,1-dichloroethane	3/5/2024	<1.0	1.0	0.500	140	3/1/2016	N/A	2/26/2018
MW 35	1,1-dichloroethane	9/30/2024	<1.0	1.0	0.500	140	3/1/2016	N/A	2/26/2018
MW 35	1,1-dichloroethane	3/6/2025	<1.0	1.0	0.500	140	3/1/2016	N/A	2/26/2018
MW 35	1,1-dichloroethane	9/17/2025	<1.0	1.0	0.500	140	3/1/2016	N/A	2/26/2018

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

Monitoring Well	Compound	Sample Date	Each Result (ug/L)	Prediction Limit (ug/L)	95% LCL (ug/L)	GWPS Limit (ug/L)	SSI Initial Exceedance	Resamples Due	5th Background Sample
MW 35	bis(2-ethylhexyl)phthalate	3/1/2016	<10	6.0	2.247	6	8/24/2017	N/A	2/26/2018
MW 35	bis(2-ethylhexyl)phthalate	9/9/2016	<10	6.0	2.295	6	8/24/2017	N/A	2/26/2018
MW 35	bis(2-ethylhexyl)phthalate	3/22/2017	<10	6.0	2.295	6	8/24/2017	N/A	2/26/2018
MW 35	bis(2-ethylhexyl)phthalate	8/24/2017	15.0	6.0	1.619	6	8/24/2017	N/A	2/26/2018
MW 35	bis(2-ethylhexyl)phthalate	2/26/2018	<6	6.0	1.619	6	8/24/2017	N/A	2/26/2018
MW 35	bis(2-ethylhexyl)phthalate	8/29/2018	7.0	6.0	2.400	6	8/24/2017	N/A	2/26/2018
MW 35	bis(2-ethylhexyl)phthalate	3/18/2019	<6	6.0	2.400	6	8/24/2017	N/A	2/26/2018
MW 35	bis(2-ethylhexyl)phthalate	9/10/2019	<6	6.0	4.234	6	8/24/2017	N/A	2/26/2018
MW 35	bis(2-ethylhexyl)phthalate	3/25/2020	<6	6.0	4.324	6	8/24/2017	N/A	2/26/2018
MW 35	bis(2-ethylhexyl)phthalate	9/4/2020	<6	6.0	3.000	6	8/24/2017	N/A	2/26/2018
MW 35	bis(2-ethylhexyl)phthalate	3/2/2021	<6	6.0	3.000	6	8/24/2017	N/A	2/26/2018
MW 35	bis(2-ethylhexyl)phthalate	9/2/2021	NT	6.0	3.000	6	8/24/2017	N/A	2/26/2018
MW 35	bis(2-ethylhexyl)phthalate	3/2/2022	<6	6.0	3.000	6	8/24/2017	N/A	2/26/2018
MW 35	bis(2-ethylhexyl)phthalate	8/29/2022	NT	6.0	3.000	6	8/24/2017	N/A	2/26/2018
MW 35	bis(2-ethylhexyl)phthalate	3/23/2023	<6	6.0	3.000	6	8/24/2017	N/A	2/26/2018
MW 35	bis(2-ethylhexyl)phthalate	9/25/2023	NT	6.0	3.000	6	8/24/2017	N/A	2/26/2018
MW 35	bis(2-ethylhexyl)phthalate	3/5/2024	NT	6.0	3.000	6	8/24/2017	N/A	2/26/2018
MW 35	bis(2-ethylhexyl)phthalate	9/30/2024	NT	6.0	3.000	6	8/24/2017	N/A	2/26/2018
MW 35	bis(2-ethylhexyl)phthalate	3/6/2025	NT	6.0	3.000	6	8/24/2017	N/A	2/26/2018
MW 35	bis(2-ethylhexyl)phthalate	9/17/2025	NT	6.0	3.000	6	8/24/2017	N/A	2/26/2018

Bold GWPS = A Site Specific GWPS that is equal to the Prediction Limit. All other GWPS are IAC 567-137 Statewide Standards for Protected Groundwater.

Table 7
Summary of Ongoing & Newly Identified SSI
Annual Water Quality Report
Tama County Sanitary Landfill
Permit No. 86-SDP-01-72P

KEY:	SSI	SSL LCL>GWPS

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

Monitoring Well	Compound	Sample Date	Each Result (ug/L)	Prediction Limit (ug/L)	95% LCL (ug/L)	GWPS Limit (ug/L)	SSI Initial Exceedance	Resamples Due	5th Background Sample
MW 36	Barium	3/1/2016	347.0	273.70	304.013	2000	8/24/2017	N/A	8/24/2017
MW 36	Barium	9/9/2016	345.0	273.70	325.698	2000	8/24/2017	N/A	8/24/2017
MW 36	Barium	1/26/2017	337.0	273.70	325.698	2000	8/24/2017	N/A	8/24/2017
MW 36	Barium	3/22/2017	327.0	273.70	328.305	2000	8/24/2017	N/A	8/24/2017
MW 36	Barium	8/24/2017	357.0	273.70	326.575	2000	8/24/2017	N/A	8/24/2017
MW 36	Barium	2/26/2018	341.0	273.70	325.824	2000	8/24/2017	N/A	8/24/2017
MW 36	Barium	8/29/2018	341.0	273.70	327.077	2000	8/24/2017	N/A	8/24/2017
MW 36	Barium	3/18/2019	348.0	283.71	337.824	2000	8/24/2017	N/A	8/24/2017
MW 36	Barium	9/10/2019	336.0	283.54	335.698	2000	8/24/2017	N/A	8/24/2017
MW 36	Barium	3/25/2020	346.0	285.69	336.425	2000	8/24/2017	N/A	8/24/2017
MW 36	Barium	9/4/2020	353.0	283.11	337.356	2000	8/24/2017	N/A	8/24/2017
MW 36	Barium	3/2/2021	331.0	282.21	329.875	2000	8/24/2017	N/A	8/24/2017
MW 36	Barium	9/2/2021	336.0	283.45	329.875	2000	8/24/2017	N/A	8/24/2017
MW 36	Barium	3/2/2022	309.0	284.60	310.917	2000	8/24/2017	N/A	8/24/2017
MW 36	Barium	8/29/2022	314.0	282.69	307.178	2000	8/24/2017	N/A	8/24/2017
MW 36	Barium	3/23/2023	301.0	282.91	297.369	2000	8/24/2017	N/A	8/24/2017
MW 36	Barium	9/25/2023	289.0	280.68	290.423	2000	8/24/2017	N/A	8/24/2017
MW 36	Barium	3/5/2024	315.0	279.54	290.300	2000	8/24/2017	N/A	8/24/2017
MW 36	Barium	9/30/2024	292.0	279.23	285.520	2000	8/24/2017	N/A	8/24/2017
MW 36	Barium	3/6/2025	300.0	279.03	285.316	2000	8/24/2017	N/A	8/24/2017
MW 36	Barium	9/17/2025	302.0	282.85	291.034	2000	8/24/2017	N/A	8/24/2017

Table 7
Summary of Ongoing & Newly Identified SSI
Annual Water Quality Report
Tama County Sanitary Landfill
Permit No. 86-SDP-01-72P

KEY:	SSI	SSL LCL>GWPS

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

Monitoring Well	Compound	Sample Date	Each Result (ug/L)	Prediction Limit (ug/L)	95% LCL (ug/L)	GWPS Limit (ug/L)	SSI Initial Exceedance	Resamples Due	5th Background Sample
MW 36	Cadmium	3/1/2016	<0.8	0.8	---	5	2/26/2018	N/A	9/10/2019
MW 36	Cadmium	9/9/2016	<0.8	0.8	---	5	2/26/2018	N/A	9/10/2019
MW 36	Cadmium	3/22/2017	0.9	0.8	0.231	5	2/26/2018	N/A	9/10/2019
MW 36	Cadmium	8/24/2017	<0.8	0.8	0.231	5	2/26/2018	N/A	9/10/2019
MW 36	Cadmium	2/26/2018	<0.8	0.8	0.231	5	2/26/2018	N/A	9/10/2019
MW 36	Cadmium	8/29/2018	<0.8	0.8	0.231	5	2/26/2018	N/A	9/10/2019
MW 36	Cadmium	3/18/2019	<0.8	0.8	0.400	5	2/26/2018	N/A	9/10/2019
MW 36	Cadmium	9/10/2019	<0.8	0.8	0.400	5	2/26/2018	N/A	9/10/2019
MW 36	Cadmium	3/25/2020	<0.8	0.8	0.400	5	2/26/2018	N/A	9/10/2019
MW 36	Cadmium	9/4/2020	<0.8	0.8	0.400	5	2/26/2018	N/A	9/10/2019
MW 36	Cadmium	3/2/2021	<0.8	0.8	0.400	5	2/26/2018	N/A	9/10/2019
MW 36	Cadmium	9/2/2021	<0.8	0.8	0.400	5	2/26/2018	N/A	9/10/2019
MW 36	Cadmium	3/2/2022	<0.8	0.8	0.400	5	2/26/2018	N/A	9/10/2019
MW 36	Cadmium	8/29/2022	<0.8	0.8	0.400	5	2/26/2018	N/A	9/10/2019
MW 36	Cadmium	3/23/2023	<0.8	0.8	0.400	5	2/26/2018	N/A	9/10/2019
MW 36	Cadmium	9/25/2023	<0.8	0.8	0.400	5	2/26/2018	N/A	9/10/2019
MW 36	Cadmium	3/5/2024	<0.8	0.8	0.400	5	2/26/2018	N/A	9/10/2019
MW 36	Cadmium	9/30/2024	<0.8	0.8	0.400	5	2/26/2018	N/A	9/10/2019
MW 36	Cadmium	3/6/2025	<0.8	0.8	0.400	5	2/26/2018	N/A	9/10/2019
MW 36	Cadmium	9/17/2025	<0.2	0.8	0.400	5	2/26/2018	N/A	9/10/2019

Bold GWPS = A Site Specific GWPS that is equal to the Prediction Limit. All other GWPS are IAC 567-137 Statewide Standards for Protected Groundwater.

Table 8 - Summary of Ongoing and Newly Identified SSL – ***MW-10***

Table 8

Summary of Ongoing & Newly Identified SSL

Annual Water Quality Report

Tama County Sanitary Landfill

Permit No. 86-SDP-01-72P

KEY:

SSI

SSL UCL>GWPS

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

Monitoring Well	Compound	Sample Date	Each Result (ug/L)	95% UCL (ug/L)	GWPS Limit (ug/L)	SSL Initial Exceedance	Compliance Date 1st Occurrence	Compliance Date Most Recent	Compliance Date Duration (years)
MW 10	Cobalt	3/1/2016	4.9	8.110	2.8	N/A	N/A	N/A	N/A
MW 10	Cobalt	9/9/2016	7.6	7.768	2.8	N/A	N/A	N/A	N/A
MW 10	Cobalt	3/22/2017	8.0	8.497	2.8	N/A	N/A	N/A	N/A
MW 10	Cobalt	8/24/2017	6.7	8.421	2.8	N/A	N/A	N/A	N/A
MW 10	Cobalt	2/26/2018	8.5	8.596	2.8	N/A	N/A	N/A	N/A
MW 10	Cobalt	8/29/2018	9.2	9.341	2.1	N/A	N/A	N/A	N/A
MW 10	Cobalt	3/18/2019	3.9	9.856	2.1	N/A	N/A	N/A	N/A
MW 10	Cobalt	9/10/2019	7.2	9.965	2.1	N/A	N/A	N/A	N/A
MW 10	Cobalt	3/25/2020	8.7	10.061	2.1	N/A	N/A	N/A	N/A
MW 10	Cobalt	9/4/2020	10.0	10.542	2.1	N/A	N/A	N/A	N/A
MW 10	Cobalt	3/2/2021	7.4	9.854	2.1	N/A	N/A	N/A	N/A
MW 10	Cobalt	9/2/2021	10.0	10.489	2.6	N/A	N/A	N/A	N/A
MW 10	Cobalt	3/2/2022	2.5	11.634	2.6	N/A	N/A	N/A	N/A
MW 10	Cobalt	8/29/2022	5.5	10.068	2.6	N/A	N/A	N/A	N/A
MW 10	Cobalt	3/23/2023	1.7	9.345	2.6	N/A	N/A	N/A	N/A
MW 10	Cobalt	9/25/2023	7.1	7.179	2.6	N/A	N/A	N/A	N/A
MW 10	Cobalt	3/5/2024	5.7	7.720	2.6	N/A	N/A	N/A	N/A
MW 10	Cobalt	9/30/2024	5.7	7.789	2.6	N/A	N/A	N/A	N/A
MW 10	Cobalt	3/6/2025	2.5	7.542	2.6	N/A	N/A	N/A	N/A
MW 10	Cobalt	9/17/2025	6.3	7.077	2.6	N/A	N/A	N/A	N/A

Table 9 – Analytical Data Summary

Table 9

Analytical Data Summary for MW-10

Constituents	Units	3/20/2014	9/15/2014	3/6/2015	8/24/2015	3/1/2016	9/9/2016	3/22/2017	8/24/2017	2/26/2018
(3,4)-methylphenol	ug/L							<8		
1,1,1,2-tetrachloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-trichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	ug/L	<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-dichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloropropene	ug/L							<1		
1,2,3-trichloropropane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4,5-tetrachlorobenzene	ug/L							<8		
1,2,4-trichlorobenzene	ug/L							<1		
1,2-dibromo-3-chloropropane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dibromoethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichlorobenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloropropane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dinitrobenzene	ug/L							<8		
1,3,5-trinitrobenzene	ug/L							<8		
1,3-dichlorobenzene	ug/L							<1		
1,3-dichloropropane	ug/L							<1		
1,3-dinitrobenzene	ug/L							<8		
1,4-dichlorobenzene	ug/L	<1.0	<1.0	<1.0	1.3	<1.0	1.1	2.4	2.3	2.7
1,4-naphthoquinone	ug/L							<8		
1,4-phenylenediamine	ug/L							<8		
1-naphthylamine	ug/L							<8		
2,2-dichloropropane	ug/L							<1		
2,3,4,6-tetrachlorophenol	ug/L							<8		
2,4,5-t	ug/L							<.5		
2,4,5-tp (silvex)	ug/L							<.5		
2,4,5-trichlorophenol	ug/L							<8		
2,4,6-trichlorophenol	ug/L							<8		
2,4-d	ug/L							<2		
2,4-dichlorophenol	ug/L							<8		
2,4-dimethylphenol	ug/L							<8		
2,4-dinitrophenol	ug/L							<8		
2,4-dinitrotoluene	ug/L							<8		
2,6-dichlorophenol	ug/L							<8		
2,6-dinitrotoluene	ug/L							<8		
2-acetylaminofluorene	ug/L							<8		
2-butanone (mek)	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
2-chloronaphthalene	ug/L							<8		
2-chlorophenol	ug/L							<8		
2-hexanone (mbk)	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
2-methylnaphthalene	ug/L							<8		
2-methylphenol	ug/L							<8		
2-naphthylamine	ug/L							<8		
2-nitroaniline	ug/L							<8		
2-nitrophenol	ug/L							<8		
3,3'-dichlorobenzidine	ug/L							<8		
3,3'-dimethylbenzidine	ug/L							<8		
3-methylcholanthrene	ug/L							<8		
3-nitroaniline	ug/L							<8		
4,4'-ddd	ug/L							<.05		
4,4'-dde	ug/L							<.05		
4,4'-ddt	ug/L							<.05		
4,6-dinitro-2-methylphenol	ug/L							<8		
4-aminobiphenyl	ug/L							<8		
4-bromophenyl phenyl ether	ug/L							<8		
4-chloro-3-methylphenol	ug/L							<8		
4-chloroaniline	ug/L							<8		
4-chlorophenyl phenyl ether	ug/L							<8		
4-methyl-2-pentanone (mibk)	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
4-nitroaniline	ug/L							<8		
4-nitrophenol	ug/L							<8		
5-nitro-o-toluidine	ug/L							<8		
7,12-dimethylbenz(a)anthracene	ug/L							<8		
Acenaphthene	ug/L							<8		
Acenaphthylene	ug/L							<8		
Acetone	ug/L	<10	<10	<10	<10	<10	<10	<10	<10	<10
Acetonitrile	ug/L							<10		
Acetophenone	ug/L							<8		
Acrolein	ug/L							<10		
Acrylonitrile	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
Aldrin	ug/L							<.05		
Allyl chloride	ug/L							<1		
Alpha-bhc	ug/L							<.05		
Anthracene	ug/L							<8		

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

Table 9

Analytical Data Summary for MW-10

Constituents	8/29/2018	3/18/2019	9/10/2019	3/25/2020	9/4/2020	3/2/2021	9/2/2021	3/2/2022	8/29/2022
(3,4)-methylphenol								<8	
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-dichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloropropene								<1	
1,2,3-trichloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4,5-tetrachlorobenzene								<8	
1,2,4-trichlorobenzene								<1	
1,2-dibromo-3-chloropropane	<1	<1	<1	<5	<5	<5	<5	<1	<5
1,2-dibromoethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
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
1,2-dinitrobenzene								<8	
1,3,5-trinitrobenzene								<8	
1,3-dichlorobenzene								<1	
1,3-dichloropropane								<1	
1,3-dinitrobenzene								<8	
1,4-dichlorobenzene	3.0	<1.0	<1.0	<1.0	3.2	2.3	2.8	<1.0	2.0
1,4-naphthoquinone								<8	
1,4-phenylenediamine								<8	
1-naphthylamine								<8	
2,2-dichloropropane								<1	
2,3,4,6-tetrachlorophenol								<8	
2,4,5-t								<5	
2,4,5-tp (silvex)								<5	
2,4,5-trichlorophenol								<8	
2,4,6-trichlorophenol								<8	
2,4-d								<1	
2,4-dichlorophenol								<8	
2,4-dimethylphenol								<8	
2,4-dinitrophenol								<8	
2,4-dinitrotoluene								<8	
2,6-dichlorophenol								<8	
2,6-dinitrotoluene								<8	
2-acetylaminofluorene								<8	
2-butanone (mek)	<5	<5	<5	<5	<5	<5	<5	<5	<10
2-chloronaphthalene								<8	
2-chlorophenol								<8	
2-hexanone (mbk)	<5	<5	<5	<5	<5	<5	<5	<5	<5
2-methylnaphthalene								<8	
2-methylphenol								<8	
2-naphthylamine								<8	
2-nitroaniline								<8	
2-nitrophenol								<8	
3,3'-dichlorobenzidine								<8	
3,3'-dimethylbenzidine								<8	
3-methylcholanthrene								<8	
3-nitroaniline								<8	
4,4'-ddd								<.05	
4,4'-dde								<.05	
4,4'-ddt								<.05	
4,6-dinitro-2-methylphenol								<8	
4-aminobiphenyl								<8	
4-bromophenyl phenyl ether								<8	
4-chloro-3-methylphenol								<8	
4-chloroaniline								<8	
4-chlorophenyl phenyl ether								<8	
4-methyl-2-pentanone (mibk)	<5	<5	<5	<5	<5	<5	<5	<5	<5
4-nitroaniline								<8	
4-nitrophenol								<8	
5-nitro-o-toluidine								<8	
7,12-dimethylbenz(a)anthracene								<8	
Acenaphthene								<8	
Acenaphthylene								<8	
Acetone	<10	<10	<10	<10	<10	<10	<10	<10	<10
Acetonitrile								<10	
Acetophenone								<8	
Acrolein								<10	
Acrylonitrile	<5	<5	<5	<5	<5	<5	<5	<5	<5
Aldrin								<.05	
Allyl chloride								<1	
Alpha-bhc								<.05	
Anthracene								<8	

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

Table 9

Analytical Data Summary for MW-10

Constituents	3/23/2023	9/25/2023	3/5/2024	9/30/2024	3/6/2025	9/17/2025
(3 4)-methylphenol						
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-dichloroethylene	<1	<1	<1	<1	<1	<1
1,1-dichloropropene						
1,2,3-trichloropropane	<1	<1	<1	<1	<1	<1
1,2,4,5-tetrachlorobenzene						
1,2,4-trichlorobenzene						
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
1,2-dinitrobenzene						
1,3,5-trinitrobenzene						
1,3-dichlorobenzene						
1,3-dichloropropane						
1,3-dinitrobenzene						
1,4-dichlorobenzene	<1.0	1.9	1.5	2.5	<1.0	<1.0
1,4-naphthoquinone						
1,4-phenylenediamine						
1-naphthylamine						
2,2-dichloropropane						
2,3,4,6-tetrachlorophenol						
2,4,5-t						
2,4,5-tp (silvex)						
2,4,5-trichlorophenol						
2,4,6-trichlorophenol						
2,4-d						
2,4-dichlorophenol						
2,4-dimethylphenol						
2,4-dinitrophenol						
2,4-dinitrotoluene						
2,6-dichlorophenol						
2,6-dinitrotoluene						
2-acetylaminofluorene						
2-butanone (mek)	<10	<10	<10	<10	<10	<10
2-chloronaphthalene						
2-chlorophenol						
2-hexanone (mbk)	<5	<5	<5	<5	<5	<5
2-methylnaphthalene						
2-methylphenol						
2-naphthylamine						
2-nitroaniline						
2-nitrophenol						
3,3'-dichlorobenzidine						
3,3'-dimethylbenzidine						
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 (mibk)	<5	<5	<5	<5	<5	<5
4-nitroaniline						
4-nitrophenol						
5-nitro-o-toluidine						
7,12-dimethylbenz(a)anthracene						
Acenaphthene						
Acenaphthylene						
Acetone	<10	<10	<10	<10	<10	<10
Acetonitrile						
Acetophenone						
Acrolein						
Acrylonitrile	<5	<5	<5	<5	<5	<5
Aldrin						
Allyl chloride						
Alpha-bhc						
Anthracene						

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

Table 9

Analytical Data Summary for MW-10

Constituents	Units	3/20/2014	9/15/2014	3/6/2015	8/24/2015	3/1/2016	9/9/2016	3/22/2017	8/24/2017	2/26/2018
Antimony, total	ug/L	<2	<2	<2	<2	<2	<2	<2	<2	<2
Arochlor 1016	ug/L							<.1		
Arochlor 1221	ug/L							<.2		
Arochlor 1232	ug/L							<.2		
Arochlor 1242	ug/L							<.2		
Arochlor 1248	ug/L							<.2		
Arochlor 1254	ug/L							<.1		
Arochlor 1260	ug/L							<.1		
Arsenic, total	ug/L	6.2	<4.0	<4.0	<4.0	<4.0	<4.0	12.5	4.9	11.2
Azobenzene	ug/L							<8		
Barium, total	ug/L	606	601	547	620	405	623	676	519	589
Benzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Benzo(a)anthracene	ug/L							<8		
Benzo(a)pyrene	ug/L							<8		
Benzo(b)fluoranthene	ug/L							<8		
Benzo(g,h,i)perylene	ug/L							<8		
Benzo(k)fluoranthene	ug/L							<8		
Benzyl alcohol	ug/L							<8		
Beryllium, total	ug/L	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Beta-bhc	ug/L							<.05		
Bis (2-chloroethoxy) methane	ug/L							<8		
Bis(2-chloroethyl) ether	ug/L							<8		
Bis(2-chloroisopropyl) ether	ug/L							<8		
Bis(2-ethylhexyl) phthalate	ug/L							<8		
Bromochloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromodichloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromoform	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromomethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Butyl benzyl phthalate	ug/L							<8		
Cadmium, total	ug/L	1.3	<.8	<.8	<.8	<.8	<.8	<.8	<.8	<.8
Carbon disulfide	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon tetrachloride	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlordane	ug/L							<.1		
Chlorobenzene	ug/L	1.1	1.2	<1.0	1.4	<1.0	1.1	2.3	2.3	2.4
Chlorobenzilate	ug/L							<8		
Chloroethane	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	<1.0	<1.0
Chloroform	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroprene	ug/L							<1		
Chromium, total	ug/L	<8	<8	<8	<8	<8	<8	<8	<8	<8
Chrysene	ug/L							<8		
Cis-1,2-dichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cis-1,3-dichloropropene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cobalt, total	ug/L	11.0	8.1	6.0	7.0	4.9	7.6	8.0	6.7	8.5
Copper, total	ug/L	9	<4	<4	<4	<4	<4	<4	<4	<4
Cyanide, total	mg/L							<.005		
Delta-bhc	ug/L							<.05		
Diallate	ug/L							<8		
Dibenzo(a,h)anthracene	ug/L							<8		
Dibenzofuran	ug/L							<8		
Dibromochloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromomethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dichlorodifluoromethane	ug/L							<1		
Dieldrin	ug/L							<.05		
Diethyl phthalate	ug/L							<8		
Dimethoate	ug/L							<.4		
Dimethylphthalate	ug/L							<8		
Di-n-butyl phthalate	ug/L							<8		
Di-n-octyl phthalate	ug/L							<8		
Dinoseb	ug/L							<.5		
Diphenylamine	ug/L							<8		
Disulfoton	ug/L							<.4		
Endosulfan i	ug/L							<.05		
Endosulfan ii	ug/L							<.05		
Endosulfan sulfate	ug/L							<.05		
Endrin	ug/L							<.05		
Endrin aldehyde	ug/L							<.05		
Ethyl methacrylate	ug/L							<10		
Ethyl methanesulfonate	ug/L							<8		
Ethylbenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Famphur	ug/L							<.4		
Fluoranthene	ug/L							<8		
Fluorene	ug/L							<8		
Gamma-bhc (lindane)	ug/L							<.05		
Heptachlor	ug/L							<.05		
Heptachlor epoxide	ug/L							<.05		
Hexachlorobenzene	ug/L							<.05		

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

Table 9

Analytical Data Summary for MW-10

Constituents	8/29/2018	3/18/2019	9/10/2019	3/25/2020	9/4/2020	3/2/2021	9/2/2021	3/2/2022	8/29/2022
Antimony, total	<2	<2	<2	<2	<2	<2	<2	<2	<2
Arochlor 1016								<1	
Arochlor 1221								<2	
Arochlor 1232								<2	
Arochlor 1242								<2	
Arochlor 1248								<2	
Arochlor 1254								<1	
Arochlor 1260								<1	
Arsenic, total	9.7	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Azobenzene								<8	
Barium, total	592	213	377	412	408	413	458	394	395
Benzene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Benzo(a)anthracene								<8	
Benzo(a)pyrene								<8	
Benzo(b)fluoranthene								<8	
Benzo(g,h,i)perylene								<8	
Benzo(k)fluoranthene								<8	
Benzyl alcohol								<8	
Beryllium, total	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Beta-bhc								<.05	
Bis (2-chloroethoxy) methane								<8	
Bis(2-chloroethyl) ether								<8	
Bis(2-chloroisopropyl) ether								<8	
Bis(2-ethylhexyl) phthalate								<6	
Bromochloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromodichloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromoform	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromomethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Butyl benzyl phthalate								<8	
Cadmium, total	<.8	<.8	<.8	<.8	3.2	<.8	<.8	<.8	<.8
Carbon disulfide	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon tetrachloride	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlordane								<.1	
Chlorobenzene	2.6	1.0	2.4	1.1	2.5	1.9	2.7	<1.0	1.7
Chlorobenzilate								<8	
Chloroethane	1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.6
Chloroform	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroprene								<1	
Chromium, total	<8	<8	<8	<8	<8	<8	<8	<8	<8
Chrysene								<8	
Cis-1,2-dichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cis-1,3-dichloropropene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cobalt, total	9.2	3.9	7.2	8.7	10.0	7.4	10.0	2.5	5.5
Copper, total	<4	<4	<4	<4	<4	<4	<4	<4	<4
Cyanide, total								<.005	
Delta-bhc								<.05	
Diallate								<8	
Dibenzo(a,h)anthracene								<8	
Dibenzofuran								<8	
Dibromochloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromomethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dichlorodifluoromethane								<1	
Dieldrin								<.05	
Diethyl phthalate								<8	
Dimethoate								<.4	
Dimethylphthalate								<8	
Di-n-butyl phthalate								<8	
Di-n-octyl phthalate								<8	
Dinoseb								<.5	
Diphenylamine								<8	
Disulfoton								<.4	
Endosulfan i								<.05	
Endosulfan ii								<.05	
Endosulfan sulfate								<.05	
Endrin								<.05	
Endrin aldehyde								<.05	
Ethyl methacrylate								<10	
Ethyl methanesulfonate								<8	
Ethylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Famphur								<.4	
Fluoranthene								<8	
Fluorene								<8	
Gamma-bhc (lindane)								<.05	
Heptachlor								<.05	
Heptachlor epoxide								<.05	
Hexachlorobenzene								<.05	

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

Table 9

Analytical Data Summary for MW-10

Constituents	3/23/2023	9/25/2023	3/5/2024	9/30/2024	3/6/2025	9/17/2025
Antimony, total	<2	<2	<2	<2	<2	<1
Arochlor 1016						
Arochlor 1221						
Arochlor 1232						
Arochlor 1242						
Arochlor 1248						
Arochlor 1254						
Arochlor 1260						
Arsenic, total	<4.0	<4.0	<4.0	<4.0	<4.0	<2.0
Azobenzene						
Barium, total	354	376	440	533	432	544
Benzene	<1	<1	<1	<1	<1	<1
Benzo(a)anthracene						
Benzo(a)pyrene						
Benzo(b)fluoranthene						
Benzo(g,h,i)perylene						
Benzo(k)fluoranthene						
Benzyl alcohol						
Beryllium, total	<4.0	<4.0	<4.0	<4.0	<4.0	<5
Beta-bhc						
Bis (2-chloroethoxy) methane						
Bis(2-chloroethyl) ether						
Bis(2-chloroisopropyl) ether						
Bis(2-ethylhexyl) phthalate						
Bromochloromethane	<1	<1	<1	<1	<1	<1
Bromodichloromethane	<1	<1	<1	<1	<1	<1
Bromoform	<1	<1	<1	<1	<1	<1
Bromomethane	<1	<1	<1	<1	<1	<1
Butyl benzyl phthalate						
Cadmium, total	<.8	<.8	<.8	<.8	<.8	.4
Carbon disulfide	<1	<1	<1	<1	<1	<1
Carbon tetrachloride	<1	<1	<1	<1	<1	<1
Chlordane						
Chlorobenzene	<1.0	1.7	<1.0	1.5	<1.0	<1.0
Chlorobenzilate						
Chloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroform	<1	<1	<1	<1	<1	<1
Chloromethane	<1	<1	<1	<1	<1	<1
Chloroprene						
Chromium, total	<8	<8	<8	<8	<8	<1
Chrysene						
Cis-1,2-dichloroethylene	<1	<1	<1	<1	<1	<1
Cis-1,3-dichloropropene	<1	<1	<1	<1	<1	<1
Cobalt, total	1.7	7.1	5.7	5.7	2.5	6.3
Copper, total	<4	<4	<4	<4	<4	<5
Cyanide, total						
Delta-bhc						
Diallate						
Dibenzo(a,h)anthracene						
Dibenzofuran						
Dibromochloromethane	<1	<1	<1	<1	<1	<1
Dibromomethane	<1	<1	<1	<1	<1	<1
Dichlorodifluoromethane						
Dieldrin						
Diethyl phthalate						
Dimethoate						
Dimethylphthalate						
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
Famphur						
Fluoranthene						
Fluorene						
Gamma-bhc (lindane)						
Heptachlor						
Heptachlor epoxide						
Hexachlorobenzene						

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

Table 9

Analytical Data Summary for MW-10

Constituents	Units	3/20/2014	9/15/2014	3/6/2015	8/24/2015	3/1/2016	9/9/2016	3/22/2017	8/24/2017	2/26/2018
Hexachlorobutadiene	ug/L							<8		
Hexachlorocyclopentadiene	ug/L							<8		
Hexachloroethane	ug/L							<8		
Hexachloropropene	ug/L							<8		
Indeno(1,2,3-cd)pyrene	ug/L							<8		
Isobutanol	ug/L							<1000		
Isodrin	ug/L							<8		
Isophorone	ug/L							<8		
Isosafrole	ug/L							<8		
Kepone	ug/L							<8		
Lead, total	ug/L	<4	<4	<4	<4	<4	<4	<4	<4	<4
Mercury, total	ug/L							<.5		
Methacrylonitrile	ug/L							<1		
Methapyrilene	ug/L							<8		
Methoxychlor	ug/L							<.05		
Methyl iodide	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methyl methacrylate	ug/L							<1		
Methyl methanesulfonate	ug/L							<8		
Methyl parathion	ug/L							<.4		
Methylene chloride	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
Naphthalene	ug/L							<8		
Nickel, total	ug/L	27.4	15.2	17.3	16.3	24.9	17.6	15.1	12.6	13.1
Nitrobenzene	ug/L							<8		
N-nitrosodiethylamine	ug/L							<8		
N-nitrosodimethylamine	ug/L							<8		
N-nitrosodi-n-butylamine	ug/L							<8		
N-nitroso-di-n-propylamine	ug/L							<8		
N-nitrosodiphenylamine	ug/L							<8		
N-nitrosomethylethylamine	ug/L							<8		
N-nitrosopiperidine	ug/L							<8		
N-nitrosopyrrolidine	ug/L							<8		
O,o,o-triethyl phosphorothioate	ug/L							<.4		
O-toluidine	ug/L							<8		
Parathion	ug/L							<.4		
P-dimethylaminoazobenzene	ug/L							<8		
Pentachlorobenzene	ug/L							<8		
Pentachloronitrobenzene (pcnb)	ug/L							<8		
Pentachlorophenol	ug/L							<8		
Phenacetin	ug/L							<8		
Phenanthrene	ug/L							<8		
Phenol	ug/L							<8		
Phorate	ug/L							<.4		
Pronamide	ug/L							<8		
Propionitrile	ug/L							<10		
Pyrene	ug/L							<8		
Safrole	ug/L							<8		
Selenium, total	ug/L	<4	<4	<4	<4	<4	<4	<4	<4	<4
Silver, total	ug/L	<4	<4	<4	<4	<4	<4	<4	<4	<4
Solids, total suspended	mg/L		41	20						
Styrene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Sulfide, total	mg/L							<.1		
Tetrachloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Thallium, total	ug/L	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Thionazin	ug/L							<.4		
Tin, total	ug/L							<20		
Toluene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toxaphene	ug/L							<.2		
Trans-1,2-dichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,3-dichloropropene	ug/L	<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
Trichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vanadium, total	ug/L	<20	<20	<20	<20	<20	<20	<20	<20	<20
Vinyl acetate	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
Vinyl chloride	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	ug/L	<2	<2	<2	<2	<2	<2	<2	<2	<2
Zinc, total	ug/L	74.8	17.8	<8.0	<8.0	<8.0	17.8	<8.0	<8.0	<8.0

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

Table 9

Analytical Data Summary for MW-10

Constituents	8/29/2018	3/18/2019	9/10/2019	3/25/2020	9/4/2020	3/2/2021	9/2/2021	3/2/2022	8/29/2022
Hexachlorobutadiene								<8	
Hexachlorocyclopentadiene								<8	
Hexachloroethane								<8	
Hexachloropropene								<8	
Indeno(1,2,3-cd)pyrene								<8	
Isobutanol								<1000	
Isodrin								<8	
Isophorone								<8	
Isosafrole								<8	
Kepone								<8	
Lead, total	<4	<4	<4	<4	<4	<4	<4	<4	<4
Mercury, total								<5	
Methacrylonitrile								<1	
Methapyrilene								<8	
Methoxychlor								<.05	
Methyl iodide	<1	<1	<1	<1	<1	<1	<1	<2	<1
Methyl methacrylate								<1	
Methyl methanesulfonate								<8	
Methyl parathion								<4	
Methylene chloride	<5	<5	<5	<5	<5	<5	<5	<5	<5
Naphthalene								<8	
Nickel, total	16.3	8.6	9.2	14.4	15.8	10.6	12.6	13.0	12.8
Nitrobenzene								<8	
N-nitrosodiethylamine								<8	
N-nitrosodimethylamine								<8	
N-nitrosodi-n-butylamine								<8	
N-nitroso-di-n-propylamine								<8	
N-nitrosodiphenylamine								<8	
N-nitrosomethylethylamine								<8	
N-nitrosopiperidine								<8	
N-nitrosopyrrolidine								<8	
O,o,o-triethyl phosphorothioate								<4	
O-toluidine								<8	
Parathion								<4	
P-dimethylaminoazobenzene								<8	
Pentachlorobenzene								<8	
Pentachloronitrobenzene (pcnb)								<8	
Pentachlorophenol								<8	
Phenacetin								<8	
Phenanthrene								<8	
Phenol								<8	
Phorate								<4	
Pronamide								<8	
Propionitrile								<10	
Pyrene								<8	
Safrole								<8	
Selenium, total	<4	<4	<4	<4	<4	<4	<4	<4	<4
Silver, total	<4	<4	<4	<4	<4	<4	<4	<4	<4
Solids, total suspended									
Styrene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Sulfide, total								<1	
Tetrachloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Thallium, total	<4.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Thionazin								<4	
Tin, total								<20	
Toluene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toxaphene								<2	
Trans-1,2-dichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,3-dichloropropene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,4-dichloro-2-butene	<5	<5	<5	<5	<5	<5	<5	<5	<5
Trichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vanadium, total	<20	<20	<20	<20	<20	<20	<20	<20	<20
Vinyl acetate	<5	<5	<5	<5	<5	<5	<5	<5	<5
Vinyl chloride	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	<2	<2	<2	<2	<2	<2	<2	<2	<2
Zinc, total	77.2	25.1	11.0	<20.0	<20.0	<20.0	22.1	<20.0	<20.0

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

Table 9

Analytical Data Summary for MW-10

Constituents	3/23/2023	9/25/2023	3/5/2024	9/30/2024	3/6/2025	9/17/2025
Hexachlorobutadiene						
Hexachlorocyclopentadiene						
Hexachloroethane						
Hexachloropropene						
Indeno(1,2,3-cd)pyrene						
Isobutanol						
Isodrin						
Isophorone						
Isosafrole						
Kepone						
Lead, total	<4	<4	<4	<4	<4	<1
Mercury, total						
Methacrylonitrile						
Methapyrilene						
Methoxychlor						
Methyl iodide	<1	<1	<1	<1	<1	<1
Methyl methacrylate						
Methyl methanesulfonate						
Methyl parathion						
Methylene chloride	<5	<5	<5	<5	<5	<5
Naphthalene						
Nickel, total	8.3	15.4	11.1	13.5	17.4	16.0
Nitrobenzene						
N-nitrosodiethylamine						
N-nitrosodimethylamine						
N-nitrosodi-n-butylamine						
N-nitroso-di-n-propylamine						
N-nitrosodiphenylamine						
N-nitrosomethylethylamine						
N-nitrosopiperidine						
N-nitrosopyrrolidine						
O,o,o-triethyl phosphorothioate						
O-toluidine						
Parathion						
P-dimethylaminoazobenzene						
Pentachlorobenzene						
Pentachloronitrobenzene (pcnb)						
Pentachlorophenol						
Phenacetin						
Phenanthrene						
Phenol						
Phorate						
Pronamide						
Propionitrile						
Pyrene						
Safrole						
Selenium, total	<4	<4	<4	<4	<4	<2
Silver, total	<4	<4	<4	<4	<4	<5
Solids, total suspended						
Styrene	<1	<1	<1	<1	<1	<1
Sulfide, total						
Tetrachloroethylene	<1	<1	<1	<1	<1	<1
Thallium, total	<2.0	<2.0	<2.0	<2.0	<2.0	<5
Thionazin						
Tin, total						
Toluene	<1	<1	<1	<1	<1	<1
Toxaphene						
Trans-1,2-dichloroethylene	<1	<1	<1	<1	<1	<1
Trans-1,3-dichloropropene	<1	<1	<1	<1	<1	<1
Trans-1,4-dichloro-2-butene	<5	<5	<5	<5	<5	<5
Trichloroethylene	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	<1	<1	<1	<1	<1	<1
Vanadium, total	<20	<20	<20	<20	<20	<2
Vinyl acetate	<5	<5	<5	<5	<5	<5
Vinyl chloride	<1	<1	<1	<1	<1	<1
Xylenes, total	<2	<2	<2	<2	<2	<2
Zinc, total	<20.0	<20.0	<20.0	<20.0	<20.0	8.8

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

Table 9

Analytical Data Summary for MW-20

Constituents	Units	3/20/2014	9/15/2014	1/14/2015	3/6/2015	6/16/2015	8/24/2015	3/1/2016	9/9/2016	3/22/2017
1,1,1,2-tetrachloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-trichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	ug/L	<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-dichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,3-trichloropropane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dibromo-3-chloropropane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dibromoethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichlorobenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloropropane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-dichlorobenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-butanone (mek)	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
2-hexanone (mbk)	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
4-methyl-2-pentanone (mibk)	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
Acetone	ug/L	<10	<10	<10	<10	<10	<10	<10	<10	<10
Acrylonitrile	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
Antimony, total	ug/L	<2	<2	<2	<2	<2	<2	<2	<2	<2
Arsenic, total	ug/L	<4	<4	<4	<4	<4	<4	<4	<4	<4
Barium, total	ug/L	259	177	208	219	221	171	162	209	222
Benzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Beryllium, total	ug/L	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Bromochloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromodichloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromoform	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromomethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cadmium, total	ug/L	.8	<.8	<.8	<.8	<.8	<.8	<.8	<.8	<.8
Carbon disulfide	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon tetrachloride	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chromium, total	ug/L	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0
Cis-1,2-dichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cis-1,3-dichloropropene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cobalt, total	ug/L	<4.0	<.8	<.8	<.8	<.8	<.8	<.8	<.8	<.8
Copper, total	ug/L	<4	<4	<4	<4	<4	<4	<4	<4	<4
Dibromochloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromomethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Lead, total	ug/L	<4	<4	<4	<4	<4	<4	<4	<4	<4
Methyl iodide	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene chloride	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
Nickel, total	ug/L	<4	<4	<4	<4	<4	<4	<4	<4	<4
Selenium, total	ug/L	<4	<4	<4	<4	<4	<4	<4	<4	<4
Silver, total	ug/L	<4	<4	<4	<4	<4	<4	<4	<4	<4
Solids, total suspended	mg/L	9	9	4	4	4	4	4	4	4
Styrene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Thallium, total	ug/L	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Toluene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,2-dichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,3-dichloropropene	ug/L	<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
Trichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vanadium, total	ug/L	<20	<20	<20	<20	<20	<20	<20	<20	<20
Vinyl acetate	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
Vinyl chloride	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	ug/L	<2	<2	<2	<2	<2	<2	<2	<2	<2
Zinc, total	ug/L	10.9	8.3	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0

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

Table 9

Analytical Data Summary for MW-20

Constituents	8/24/2017	2/26/2018	8/29/2018	3/18/2019	9/10/2019	3/25/2020	9/4/2020	3/2/2021	9/2/2021	3/2/2022
1,1,1,2-tetrachloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-trichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-trichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,3-trichloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dibromo-3-chloropropane	<1	<1	<1	<1	<1	<5	<5	<5	<5	<5
1,2-dibromoethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-butanone (mek)	<5	<5	<5	<5	<5	<5	<5	<5	<5	<10
2-hexanone (mbk)	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
4-methyl-2-pentanone (mibk)	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Acetone	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Acrylonitrile	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Antimony, total	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Arsenic, total	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Barium, total	239	239	201	193	142	184	167	217	210	236
Benzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Beryllium, total	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Bromochloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromodichloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromoform	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromomethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cadmium, total	<.8	<.8	<.8	<.8	<.8	<.8	<.8	.8	.8	<.8
Carbon disulfide	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon tetrachloride	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chromium, total	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0
Cis-1,2-dichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cis-1,3-dichloropropene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cobalt, total	<.8	.8	<.8	<.8	<.8	<.8	<.8	1.0	1.1	.8
Copper, total	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Dibromochloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromomethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Lead, total	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Methyl iodide	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene chloride	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Nickel, total	<4	<4	<8	<4	<4	<4	<4	<4	<4	<4
Selenium, total	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Silver, total	<4	<4	<8	<4	<4	<4	<4	<4	<4	<4
Solids, total suspended										
Styrene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Thallium, total	<4.0	<4.0	<4.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Toluene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,2-dichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,3-dichloropropene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,4-dichloro-2-butene	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Trichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vanadium, total	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
Vinyl acetate	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Vinyl chloride	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Zinc, total	<8.0	11.4	49.4	23.9	<8.0	<20.0	<20.0	<20.0	44.5	<20.0

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

Table 9

Analytical Data Summary for MW-20

Constituents	8/29/2022	3/23/2023	9/25/2023	3/5/2024	9/30/2024	3/6/2025	9/17/2025
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-dichloroethylene	<1	<1	<1	<1	<1	<1	<1
1,2,3-trichloropropane	<1	<1	<1	<1	<1	<1	<1
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
1,4-dichlorobenzene	<1	<1	<1	<1	<1	<1	<1
2-butanone (mek)	<10	<10	<10	<10	<10	<10	<10
2-hexanone (mbk)	<5	<5	<5	<5	<5	<5	<5
4-methyl-2-pentanone (mibk)	<5	<5	<5	<5	<5	<5	<5
Acetone	<10	<10	<10	<10	<10	<10	<10
Acrylonitrile	<5	<5	<5	<5	<5	<5	<5
Antimony, total	<2	<2	<2	<2	<2	<2	<1
Arsenic, total	<4	<4	<4	<4	<4	<4	<2
Barium, total	152	231	185	201	194	216	178
Benzene	<1	<1	<1	<1	<1	<1	<1
Beryllium, total	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<5
Bromochloromethane	<1	<1	<1	<1	<1	<1	<1
Bromodichloromethane	<1	<1	<1	<1	<1	<1	<1
Bromoform	<1	<1	<1	<1	<1	<1	<1
Bromomethane	<1	<1	<1	<1	<1	<1	<1
Cadmium, total	<.8	<.8	<.8	<.8	<.8	<.8	<.2
Carbon disulfide	<1	<1	<1	<1	<1	<1	<1
Carbon tetrachloride	<1	<1	<1	<1	<1	<1	<1
Chlorobenzene	<1	<1	<1	<1	<1	<1	<1
Chloroethane	<1	<1	<1	<1	<1	<1	<1
Chloroform	<1	<1	<1	<1	<1	<1	<1
Chloromethane	<1	<1	<1	<1	<1	<1	<1
Chromium, total	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	4.9
Cis-1,2-dichloroethylene	<1	<1	<1	<1	<1	<1	<1
Cis-1,3-dichloropropene	<1	<1	<1	<1	<1	<1	<1
Cobalt, total	<.4	<.4	<.4	.4	<.4	<.4	<.5
Copper, total	<.4	<.4	<.4	<.4	<.4	<.4	<.5
Dibromochloromethane	<1	<1	<1	<1	<1	<1	<1
Dibromomethane	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	<1	<1	<1	<1	<1	<1	<1
Lead, total	<.4	<.4	<.4	<.4	<.4	<.4	<.1
Methyl iodide	<1	<1	<1	<1	<1	<1	<1
Methylene chloride	<.5	<.5	<.5	<.5	<.5	<.5	<.5
Nickel, total	<.4	<.4	<.4	<.4	<.4	<.4	<.5
Selenium, total	<.4	<.4	<.4	<.4	<.4	<.4	<.2
Silver, total	<.4	<.4	<.4	<.4	<.4	<.4	<.5
Solids, total suspended							
Styrene	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethylene	<1	<1	<1	<1	<1	<1	<1
Thallium, total	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<.5
Toluene	<1	<1	<1	<1	<1	<1	<1
Trans-1,2-dichloroethylene	<1	<1	<1	<1	<1	<1	<1
Trans-1,3-dichloropropene	<1	<1	<1	<1	<1	<1	<1
Trans-1,4-dichloro-2-butene	<.5	<.5	<.5	<.5	<.5	<.5	<.5
Trichloroethylene	<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	<1	<1	<1	<1	<1	<1	<1
Vanadium, total	<20	<20	<20	<20	<20	<20	<.2
Vinyl acetate	<.5	<.5	<.5	<.5	<.5	<.5	<.5
Vinyl chloride	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	<.2	<.2	<.2	<.2	<.2	<.2	<.2
Zinc, total	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<5.0

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

Table 9

Analytical Data Summary for MW-26

Constituents	Units	3/20/2014	9/15/2014	1/14/2015	3/6/2015	6/16/2015	8/24/2015	3/1/2016	9/9/2016	3/22/2017
1,1,1,2-tetrachloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-trichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	ug/L	<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-dichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,3-trichloropropane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dibromo-3-chloropropane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dibromoethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichlorobenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloropropane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-dichlorobenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-butanone (mek)	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
2-hexanone (mbk)	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
4-methyl-2-pentanone (mibk)	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
Acetone	ug/L	<10	<10	<10	<10	<10	<10	<10	<10	<10
Acrylonitrile	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
Antimony, total	ug/L	<2	<2	<2	<2	<2	<2	<2	<2	<2
Arsenic, total	ug/L	<4	<4	<4	<4	<4	<4	<4	<4	<4
Barium, total	ug/L	116	141	118	106	121	156	120	116	123
Benzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Beryllium, total	ug/L	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Bromochloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromodichloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromoform	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromomethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cadmium, total	ug/L	<8	<8	<8	<8	<8	<8	<8	<8	<8
Carbon disulfide	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon tetrachloride	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chromium, total	ug/L	<8	<8	<8	<8	<8	<8	<8	<8	<8
Cis-1,2-dichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cis-1,3-dichloropropene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cobalt, total	ug/L	<4.0	<8	<8	<8	<8	<8	<8	<8	<8
Copper, total	ug/L	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Dibromochloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromomethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Lead, total	ug/L	<4	<4	<4	<4	<4	<4	<4	<4	<4
Methyl iodide	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene chloride	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
Nickel, total	ug/L	<4	<4	<4	<4	<4	<4	<4	<4	<4
Selenium, total	ug/L	<4.0	4.9	<4.0	<4.0	6.3	4.9	4.8	<4.0	<4.0
Silver, total	ug/L	<4	<4	<4	<4	<4	<4	<4	<4	<4
Solids, total suspended	mg/L		8		3					
Styrene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Thallium, total	ug/L	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Toluene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,2-dichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,3-dichloropropene	ug/L	<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
Trichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vanadium, total	ug/L	<20	<20	<20	<20	<20	<20	<20	<20	<20
Vinyl acetate	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
Vinyl chloride	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	ug/L	<2	<2	<2	<2	<2	<2	<2	<2	<2
Zinc, total	ug/L	26.3	9.2	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0

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

Table 9

Analytical Data Summary for MW-26

Constituents	8/24/2017	2/26/2018	8/29/2018	3/18/2019	9/10/2019	3/25/2020	9/4/2020	3/2/2021	9/2/2021	3/2/2022
1,1,1,2-tetrachloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-trichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-trichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,3-trichloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dibromo-3-chloropropane	<1	<1	<1	<1	<1	<5	<5	<5	<5	<5
1,2-dibromoethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-butanone (mek)	<5	<5	<5	<5	<5	<5	<5	<5	<5	<10
2-hexanone (mbk)	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
4-methyl-2-pentanone (mibk)	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Acetone	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Acrylonitrile	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Antimony, total	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Arsenic, total	<4	<10	<4	<4	<4	<4	<4	<4	<4	<4
Barium, total	128	119	117	147	178	199	189	157	179	126
Benzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Beryllium, total	<4.0	<10.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Bromochloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromodichloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromoform	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromomethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cadmium, total	<.8	<2.0	<.8	<.8	<.8	<.8	<.8	<.8	<.8	<.8
Carbon disulfide	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon tetrachloride	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chromium, total	<8	<20	<8	<8	<8	<8	<8	<8	<8	<8
Cis-1,2-dichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cis-1,3-dichloropropene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cobalt, total	<.8	<2.0	<.8	<.8	<.8	<.8	<.4	.9	<.4	.7
Copper, total	<4.0	<10.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Dibromochloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromomethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Lead, total	<4	<10	<4	<4	<4	<4	<4	<4	<4	<4
Methyl iodide	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene chloride	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Nickel, total	<4	<10	<8	<4	<4	<4	<4	<4	<4	<4
Selenium, total	<4.0	10.7	<4.0	<4.0	<4.0	6.1	<4.0	10.8	<4.0	10.5
Silver, total	<4	<10	<8	<4	<4	<4	<4	<4	<4	<4
Solids, total suspended										
Styrene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Thallium, total	<4.0	<10.0	<4.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Toluene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,2-dichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,3-dichloropropene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,4-dichloro-2-butene	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Trichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vanadium, total	<20	<50	<20	<20	<20	<20	<20	<20	<20	<20
Vinyl acetate	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Vinyl chloride	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Zinc, total	<8.0	<20.0	182.0	<20.0	<8.0	38.0	<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-26

Constituents	8/29/2022	3/23/2023	9/25/2023	3/5/2024	9/30/2024	3/6/2025	9/17/2025
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-dichloroethylene	<1	<1	<1	<1	<1	<1	<1
1,2,3-trichloropropane	<1	<1	<1	<1	<1	<1	<1
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
1,4-dichlorobenzene	<1	<1	<1	<1	<1	<1	<1
2-butanone (mek)	<10	<10	<10	<10	<10	<10	<10
2-hexanone (mbk)	<5	<5	<5	<5	<5	<5	<5
4-methyl-2-pentanone (mibk)	<5	<5	<5	<5	<5	<5	<5
Acetone	<10	<10	<10	<10	<10	<10	<10
Acrylonitrile	<5	<5	<5	<5	<5	<5	<5
Antimony, total	<2	<2	<2	<2	<2	<2	<1
Arsenic, total	<4	<4	<4	<4	<4	<4	<2
Barium, total	142	112	116	118	153	116	263
Benzene	<1	<1	<1	<1	<1	<1	<1
Beryllium, total	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<5
Bromochloromethane	<1	<1	<1	<1	<1	<1	<1
Bromodichloromethane	<1	<1	<1	<1	<1	<1	<1
Bromoform	<1	<1	<1	<1	<1	<1	<1
Bromomethane	<1	<1	<1	<1	<1	<1	<1
Cadmium, total	<8	<8	<8	<8	<8	<8	<2
Carbon disulfide	<1	<1	<1	<1	<1	<1	<1
Carbon tetrachloride	<1	<1	<1	<1	<1	<1	<1
Chlorobenzene	<1	<1	<1	<1	<1	<1	<1
Chloroethane	<1	<1	<1	<1	<1	<1	<1
Chloroform	<1	<1	<1	<1	<1	<1	<1
Chloromethane	<1	<1	<1	<1	<1	<1	<1
Chromium, total	<8	<8	<8	<8	<8	<8	1
Cis-1,2-dichloroethylene	<1	<1	<1	<1	<1	<1	<1
Cis-1,3-dichloropropene	<1	<1	<1	<1	<1	<1	<1
Cobalt, total	<4	<4	<4	<4	<4	<4	<5
Copper, total	<4.0	<4.0	8.4	<4.0	<4.0	<4.0	<5.0
Dibromochloromethane	<1	<1	<1	<1	<1	<1	<1
Dibromomethane	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	<1	<1	<1	<1	<1	<1	<1
Lead, total	<4	<4	<4	<4	<4	<4	<1
Methyl iodide	<1	<1	<1	<1	<1	<1	<1
Methylene chloride	<5	<5	<5	<5	<5	<5	<5
Nickel, total	<4	<4	<4	<4	<4	<4	<5
Selenium, total	4.1	10.2	<4.0	<4.0	<4.0	12.4	<2.0
Silver, total	<4	<4	<4	<4	<4	<4	<5
Solids, total suspended							
Styrene	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethylene	<1	<1	<1	<1	<1	<1	<1
Thallium, total	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5
Toluene	<1	<1	<1	<1	<1	<1	<1
Trans-1,2-dichloroethylene	<1	<1	<1	<1	<1	<1	<1
Trans-1,3-dichloropropene	<1	<1	<1	<1	<1	<1	<1
Trans-1,4-dichloro-2-butene	<5	<5	<5	<5	<5	<5	<5
Trichloroethylene	<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	<1	<1	<1	<1	<1	<1	<1
Vanadium, total	<20	<20	<20	<20	<20	<20	<2
Vinyl acetate	<5	<5	<5	<5	<5	<5	<5
Vinyl chloride	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	<2	<2	<2	<2	<2	<2	<2
Zinc, total	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	7.2

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

Table 9

Analytical Data Summary for MW-27

Constituents	Units	3/20/2014	9/15/2014	3/6/2015	8/24/2015	3/1/2016	9/9/2016	1/26/2017	3/22/2017	8/24/2017
(3,4)-methylphenol	ug/L								<8	
1,1,1,2-tetrachloroethane	ug/L	<1	<1	<1	<1	<1	<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-dichloroethylene	ug/L	<1	<1	<1	<1	<1	<1		<1	<1
1,1-dichloropropene	ug/L								<1	
1,2,3-trichloropropane	ug/L	<1	<1	<1	<1	<1	<1		<1	<1
1,2,4,5-tetrachlorobenzene	ug/L								<8	
1,2,4-trichlorobenzene	ug/L								<1	
1,2-dibromo-3-chloropropane	ug/L	<1	<1	<1	<1	<1	<1		<1	<1
1,2-dibromoethane	ug/L	<1	<1	<1	<1	<1	<1		<1	<1
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
1,2-dinitrobenzene	ug/L								<8	
1,3,5-trinitrobenzene	ug/L								<8	
1,3-dichlorobenzene	ug/L								<1	
1,3-dichloropropane	ug/L								<1	
1,3-dinitrobenzene	ug/L								<8	
1,4-dichlorobenzene	ug/L	<1	<1	<1	<1	<1	<1		<1	<1
1,4-naphthoquinone	ug/L								<8	
1,4-phenylenediamine	ug/L								<8	
1-naphthylamine	ug/L								<8	
2,2-dichloropropane	ug/L								<1	
2,3,4,6-tetrachlorophenol	ug/L								<8	
2,4,5-t	ug/L								<5	
2,4,5-tp (silvex)	ug/L								<5	
2,4,5-trichlorophenol	ug/L								<8	
2,4,6-trichlorophenol	ug/L								<8	
2,4-d	ug/L								<2	
2,4-dichlorophenol	ug/L								<8	
2,4-dimethylphenol	ug/L								<8	
2,4-dinitrophenol	ug/L								<8	
2,4-dinitrotoluene	ug/L								<8	
2,6-dichlorophenol	ug/L								<8	
2,6-dinitrotoluene	ug/L								<8	
2-acetylaminofluorene	ug/L								<8	
2-butanone (mek)	ug/L	<5	<5	<5	<5	<5	<5		<5	<5
2-chloronaphthalene	ug/L								<8	
2-chlorophenol	ug/L								<8	
2-hexanone (mbk)	ug/L	<5	<5	<5	<5	<5	<5		<5	<5
2-methylnaphthalene	ug/L								<8	
2-methylphenol	ug/L								<8	
2-naphthylamine	ug/L								<8	
2-nitroaniline	ug/L								<8	
2-nitrophenol	ug/L								<8	
3,3'-dichlorobenzidine	ug/L								<8	
3,3'-dimethylbenzidine	ug/L								<8	
3-methylcholanthrene	ug/L								<8	
3-nitroaniline	ug/L								<8	
4,4'-ddd	ug/L								<.05	
4,4'-dde	ug/L								<.05	
4,4'-ddt	ug/L								<.05	
4,6-dinitro-2-methylphenol	ug/L								<8	
4-aminobiphenyl	ug/L								<8	
4-bromophenyl phenyl ether	ug/L								<8	
4-chloro-3-methylphenol	ug/L								<8	
4-chloroaniline	ug/L								<8	
4-chlorophenyl phenyl ether	ug/L								<8	
4-methyl-2-pentanone (mibk)	ug/L	<5	<5	<5	<5	<5	<5		<5	<5
4-nitroaniline	ug/L								<8	
4-nitrophenol	ug/L								<8	
5-nitro-o-toluidine	ug/L								<8	
7,12-dimethylbenz(a)anthracene	ug/L								<8	
Acenaphthene	ug/L								<8	
Acenaphthylene	ug/L								<8	
Acetone	ug/L	<10	<10	<10	<10	<10	<10		<10	<10
Acetonitrile	ug/L								<10	
Acetophenone	ug/L								<8	
Acrolein	ug/L								<10	
Acrylonitrile	ug/L	<5	<5	<5	<5	<5	<5		<5	<5
Aldrin	ug/L								<.05	
Allyl chloride	ug/L								<1	
Alpha-bhc	ug/L								<.05	
Anthracene	ug/L								<8	

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

Table 9

Analytical Data Summary for MW-27

Constituents	2/26/2018	8/29/2018	3/18/2019	9/10/2019	3/25/2020	9/4/2020	3/2/2021	9/2/2021	3/2/2022
(3,4)-methylphenol	<8								
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-dichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloropropene	<1								
1,2,3-trichloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4,5-tetrachlorobenzene	<8								
1,2,4-trichlorobenzene	<1								
1,2-dibromo-3-chloropropane	<1	<1	<1	<1	<5	<5	<5	<5	<5
1,2-dibromoethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
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
1,2-dinitrobenzene	<8								
1,3,5-trinitrobenzene	<8								
1,3-dichlorobenzene	<1								
1,3-dichloropropane	<1								
1,3-dinitrobenzene	<8								
1,4-dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-naphthoquinone	<8								
1,4-phenylenediamine	<8								
1-naphthylamine	<8								
2,2-dichloropropane	<1								
2,3,4,6-tetrachlorophenol	<8								
2,4,5-t	<.5								
2,4,5-tp (silvex)	<.5								
2,4,5-trichlorophenol	<8								
2,4,6-trichlorophenol	<8								
2,4-d	<2								
2,4-dichlorophenol	<8								
2,4-dimethylphenol	<8								
2,4-dinitrophenol	<8								
2,4-dinitrotoluene	<8								
2,6-dichlorophenol	<8								
2,6-dinitrotoluene	<8								
2-acetylaminofluorene	<8								
2-butanone (mek)	<5	<5	<5	<5	<5	<5	<5	<5	<10
2-chloronaphthalene	<8								
2-chlorophenol	<8								
2-hexanone (mbk)	<5	<5	<5	<5	<5	<5	<5	<5	<5
2-methylnaphthalene	<8								
2-methylphenol	<8								
2-naphthylamine	<8								
2-nitroaniline	<8								
2-nitrophenol	<8								
3,3'-dichlorobenzidine	<8								
3,3'-dimethylbenzidine	<8								
3-methylcholanthrene	<8								
3-nitroaniline	<8								
4,4'-ddd	<.05								
4,4'-dde	<.05								
4,4'-ddt	<.05								
4,6-dinitro-2-methylphenol	<8								
4-aminobiphenyl	<8								
4-bromophenyl phenyl ether	<8								
4-chloro-3-methylphenol	<8								
4-chloroaniline	<8								
4-chlorophenyl phenyl ether	<8								
4-methyl-2-pentanone (mibk)	<5	<5	<5	<5	<5	<5	<5	<5	<5
4-nitroaniline	<8								
4-nitrophenol	<8								
5-nitro-o-toluidine	<8								
7,12-dimethylbenz(a)anthracene	<8								
Acenaphthene	<8								
Acenaphthylene	<8								
Acetone	<10	<10	<10	<10	<10	<10	<10	<10	<10
Acetonitrile	<10								
Acetophenone	<8								
Acrolein	<10								
Acrylonitrile	<5	<5	<5	<5	<5	<5	<5	<5	<5
Aldrin	<.05								
Allyl chloride	<1								
Alpha-bhc	<.05								
Anthracene	<8								

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

Table 9

Analytical Data Summary for MW-27

Constituents	8/29/2022	3/23/2023	9/25/2023	3/5/2024	9/30/2024	3/6/2025	9/17/2025
(3,4)-methylphenol		<8					
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-dichloroethylene	<1	<1	<1	<1	<1	<1	<1
1,1-dichloropropene		<1					
1,2,3-trichloropropane	<1	<1	<1	<1	<1	<1	<1
1,2,4,5-tetrachlorobenzene		<8					
1,2,4-trichlorobenzene		<1					
1,2-dibromo-3-chloropropane	<5	<1	<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
1,2-dinitrobenzene		<8					
1,3,5-trinitrobenzene		<8					
1,3-dichlorobenzene		<1					
1,3-dichloropropane		<1					
1,3-dinitrobenzene		<8					
1,4-dichlorobenzene	<1	<1	<1	<1	<1	<1	<1
1,4-naphthoquinone		<8					
1,4-phenylenediamine		<8					
1-naphthylamine		<8					
2,2-dichloropropane		<1					
2,3,4,6-tetrachlorophenol		<8					
2,4,5-t		<5					
2,4,5-tp (silvex)		<5					
2,4,5-trichlorophenol		<8					
2,4,6-trichlorophenol		<8					
2,4-d		<2					
2,4-dichlorophenol		<8					
2,4-dimethylphenol		<8					
2,4-dinitrophenol		<8					
2,4-dinitrotoluene		<8					
2,6-dichlorophenol		<8					
2,6-dinitrotoluene		<8					
2-acetylaminofluorene		<8					
2-butanone (mek)	<10	<5	<10	<10	<10	<10	<10
2-chloronaphthalene		<8					
2-chlorophenol		<8					
2-hexanone (mbk)	<5	<5	<5	<5	<5	<5	<5
2-methylnaphthalene		<8					
2-methylphenol		<8					
2-naphthylamine		<8					
2-nitroaniline		<8					
2-nitrophenol		<8					
3,3'-dichlorobenzidine		<8					
3,3'-dimethylbenzidine		<8					
3-methylcholanthrene		<8					
3-nitroaniline		<8					
4,4'-ddd		<.05					
4,4'-dde		<.05					
4,4'-ddt		<.05					
4,6-dinitro-2-methylphenol		<8					
4-aminobiphenyl		<8					
4-bromophenyl phenyl ether		<8					
4-chloro-3-methylphenol		<8					
4-chloroaniline		<8					
4-chlorophenyl phenyl ether		<8					
4-methyl-2-pentanone (mibk)	<5	<5	<5	<5	<5	<5	<5
4-nitroaniline		<8					
4-nitrophenol		<8					
5-nitro-o-toluidine		<8					
7,12-dimethylbenz(a)anthracene		<8					
Acenaphthene		<8					
Acenaphthylene		<8					
Acetone	<10	<10	<10	<10	<10	<10	<10
Acetonitrile		<10					
Acetophenone		<8					
Acrolein		<10					
Acrylonitrile	<5	<5	<5	<5	<5	<5	<5
Aldrin		<.05					
Allyl chloride		<1					
Alpha-bhc		<.05					
Anthracene		<8					

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

Table 9

Analytical Data Summary for MW-27

Constituents	Units	3/20/2014	9/15/2014	3/6/2015	8/24/2015	3/1/2016	9/9/2016	1/26/2017	3/22/2017	8/24/2017
Antimony, total	ug/L	<2	<2	<2	<2	<2	<2		<2	<2
Arochlor 1016	ug/L								<.1	
Arochlor 1221	ug/L								<.2	
Arochlor 1232	ug/L								<.2	
Arochlor 1242	ug/L								<.2	
Arochlor 1248	ug/L								<.2	
Arochlor 1254	ug/L								<.1	
Arochlor 1260	ug/L								<.1	
Arsenic, total	ug/L	<4	<4	<4	<4	<4	<4		<4	<4
Azobenzene	ug/L								<.8	
Barium, total	ug/L	310	296	299	277	303	293	310	301	333
Benzene	ug/L	<1	<1	<1	<1	<1	<1		<1	<1
Benzo(a)anthracene	ug/L								<.8	
Benzo(a)pyrene	ug/L								<.8	
Benzo(b)fluoranthene	ug/L								<.8	
Benzo(g,h,i)perylene	ug/L								<.8	
Benzo(k)fluoranthene	ug/L								<.8	
Benzyl alcohol	ug/L								<.8	
Beryllium, total	ug/L	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0		<4.0	<4.0
Beta-bhc	ug/L								<.05	
Bis (2-chloroethoxy) methane	ug/L								<.8	
Bis(2-chloroethyl) ether	ug/L								<.8	
Bis(2-chloroisopropyl) ether	ug/L								<.8	
Bis(2-ethylhexyl) phthalate	ug/L								<.8	
Bromochloromethane	ug/L	<1	<1	<1	<1	<1	<1		<1	<1
Bromodichloromethane	ug/L	<1	<1	<1	<1	<1	<1		<1	<1
Bromoform	ug/L	<1	<1	<1	<1	<1	<1		<1	<1
Bromomethane	ug/L	<1	<1	<1	<1	<1	<1		<1	<1
Butyl benzyl phthalate	ug/L								<.8	
Cadmium, total	ug/L	<.8	<.8	<.8	<.8	<.8	<.8		<.8	<.8
Carbon disulfide	ug/L	<1	<1	<1	<1	<1	<1		<1	<1
Carbon tetrachloride	ug/L	<1	<1	<1	<1	<1	<1		<1	<1
Chlordane	ug/L								<.1	
Chlorobenzene	ug/L	<1	<1	<1	<1	<1	<1		<1	<1
Chlorobenzilate	ug/L								<.8	
Chloroethane	ug/L	<1	<1	<1	<1	<1	<1		<1	<1
Chloroform	ug/L	<1	<1	<1	<1	<1	<1		<1	<1
Chloromethane	ug/L	<1	<1	<1	<1	<1	<1		<1	<1
Chloroprene	ug/L								<.1	
Chromium, total	ug/L	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0		<8.0	<8.0
Chrysene	ug/L								<.8	
Cis-1,2-dichloroethylene	ug/L	<1	<1	<1	<1	<1	<1		<1	<1
Cis-1,3-dichloropropene	ug/L	<1	<1	<1	<1	<1	<1		<1	<1
Cobalt, total	ug/L	<4.0	<.8	<.8	<.8	<.8	<.8		<.8	<.8
Copper, total	ug/L	<4	<4	<4	<4	<4	<4		<4	<4
Cyanide, total	mg/L								<.005	
Delta-bhc	ug/L								<.05	
Diallate	ug/L								<.8	
Dibenzo(a,h)anthracene	ug/L								<.8	
Dibenzofuran	ug/L								<.8	
Dibromochloromethane	ug/L	<1	<1	<1	<1	<1	<1		<1	<1
Dibromomethane	ug/L	<1	<1	<1	<1	<1	<1		<1	<1
Dichlorodifluoromethane	ug/L								<.1	
Dieldrin	ug/L								<.05	
Diethyl phthalate	ug/L								<.8	
Dimethoate	ug/L								<.4	
Dimethylphthalate	ug/L								<.8	
Di-n-butyl phthalate	ug/L								<.8	
Di-n-octyl phthalate	ug/L								<.8	
Dinoseb	ug/L								<.5	
Diphenylamine	ug/L								<.8	
Disulfoton	ug/L								<.4	
Endosulfan i	ug/L								<.05	
Endosulfan ii	ug/L								<.05	
Endosulfan sulfate	ug/L								<.05	
Endrin	ug/L								<.05	
Endrin aldehyde	ug/L								<.05	
Ethyl methacrylate	ug/L								<.10	
Ethyl methanesulfonate	ug/L								<.8	
Ethylbenzene	ug/L	<1	<1	<1	<1	<1	<1		<1	<1
Famphur	ug/L								<.4	
Fluoranthene	ug/L								<.8	
Fluorene	ug/L								<.8	
Gamma-bhc (lindane)	ug/L								<.05	
Heptachlor	ug/L								<.05	
Heptachlor epoxide	ug/L								<.05	
Hexachlorobenzene	ug/L								<.05	

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

Table 9

Analytical Data Summary for MW-27

Constituents	2/26/2018	8/29/2018	3/18/2019	9/10/2019	3/25/2020	9/4/2020	3/2/2021	9/2/2021	3/2/2022
Antimony, total	<2	<2	<2	<2	<2	<2	<2	<2	<2
Arochlor 1016	<.1								
Arochlor 1221	<.2								
Arochlor 1232	<.2								
Arochlor 1242	<.2								
Arochlor 1248	<.2								
Arochlor 1254	<.1								
Arochlor 1260	<.1								
Arsenic, total	<4	<4	<4	<4	<4	<4	<4	<4	<4
Azobenzene	<8								
Barium, total	306	320	330	346	329	348	312	310	287
Benzene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Benzo(a)anthracene	<8								
Benzo(a)pyrene	<8								
Benzo(b)fluoranthene	<8								
Benzo(g,h,i)perylene	<8								
Benzo(k)fluoranthene	<8								
Benzyl alcohol	<8								
Beryllium, total	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Beta-bhc	<.05								
Bis (2-chloroethoxy) methane	<8								
Bis(2-chloroethyl) ether	<8								
Bis(2-chloroisopropyl) ether	<8								
Bis(2-ethylhexyl) phthalate	71	<6	13	<6	<6	<6	<6		<6
Bromochloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromodichloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromoform	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromomethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Butyl benzyl phthalate	<8								
Cadmium, total	<.8	<.8	<.8	<.8	<.8	<.8	<.8	<.8	<.8
Carbon disulfide	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon tetrachloride	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlordane	<.1								
Chlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzilate	<8								
Chloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroprene	<1								
Chromium, total	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0
Chrysene	<8								
Cis-1,2-dichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cis-1,3-dichloropropene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cobalt, total	<.8	<.8	<.8	<.8	<.8	<.4	.8	.6	<.4
Copper, total	<4	<4	<4	<4	<4	<4	<4	<4	<4
Cyanide, total	<.005								
Delta-bhc	<.05								
Diallate	<8								
Dibenzo(a,h)anthracene	<8								
Dibenzofuran	<8								
Dibromochloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromomethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dichlorodifluoromethane	<1								
Dieldrin	<.05								
Diethyl phthalate	<8								
Dimethoate	<.4								
Dimethylphthalate	<8								
Di-n-butyl phthalate	<8								
Di-n-octyl phthalate	<8								
Dinoseb	<.5								
Diphenylamine	<8								
Disulfoton	<.4								
Endosulfan i	<.05								
Endosulfan ii	<.05								
Endosulfan sulfate	<.05								
Endrin	<.05								
Endrin aldehyde	<.05								
Ethyl methacrylate	<10								
Ethyl methanesulfonate	<8								
Ethylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Famphur	<.4								
Fluoranthene	<8								
Fluorene	<8								
Gamma-bhc (lindane)	<.05								
Heptachlor	<.05								
Heptachlor epoxide	<.05								
Hexachlorobenzene	<.05								

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

Table 9

Analytical Data Summary for MW-27

Constituents	8/29/2022	3/23/2023	9/25/2023	3/5/2024	9/30/2024	3/6/2025	9/17/2025
Antimony, total	<2	<2	<2	<2	<2	<2	<1
Arochlor 1016		<.1					
Arochlor 1221		<.2					
Arochlor 1232		<.2					
Arochlor 1242		<.2					
Arochlor 1248		<.2					
Arochlor 1254		<.1					
Arochlor 1260		<.1					
Arsenic, total	<4	<4	<4	<4	<4	<4	<2
Azobenzene		<8					
Barium, total	249	234	204	194	200	154	175
Benzene	<1	<1	<1	<1	<1	<1	<1
Benzo(a)anthracene		<8					
Benzo(a)pyrene		<8					
Benzo(b)fluoranthene		<8					
Benzo(g,h,i)perylene		<8					
Benzo(k)fluoranthene		<8					
Benzyl alcohol		<8					
Beryllium, total	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<.5
Beta-bhc		<.05					
Bis (2-chloroethoxy) methane		<8					
Bis(2-chloroethyl) ether		<8					
Bis(2-chloroisopropyl) ether		<8					
Bis(2-ethylhexyl) phthalate		<6					
Bromochloromethane	<1	<1	<1	<1	<1	<1	<1
Bromodichloromethane	<1	<1	<1	<1	<1	<1	<1
Bromoform	<1	<1	<1	<1	<1	<1	<1
Bromomethane	<1	<1	<1	<1	<1	<1	<1
Butyl benzyl phthalate		<8					
Cadmium, total	<.8	<.8	<.8	<.8	<.8	<.8	<.2
Carbon disulfide	<1	<1	<1	<1	<1	<1	<1
Carbon tetrachloride	<1	<1	<1	<1	<1	<1	<1
Chlordane		<.1					
Chlorobenzene	<1	<1	<1	<1	<1	<1	<1
Chlorobenzilate		<8					
Chloroethane	<1	<1	<1	<1	<1	<1	<1
Chloroform	<1	<1	<1	<1	<1	<1	<1
Chloromethane	<1	<1	<1	<1	<1	<1	<1
Chloroprene		<1					
Chromium, total	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	1.1
Chrysene		<8					
Cis-1,2-dichloroethylene	<1	<1	<1	<1	<1	<1	<1
Cis-1,3-dichloropropene	<1	<1	<1	<1	<1	<1	<1
Cobalt, total	<.4	<.4	<.4	<.4	<.4	<.4	<.5
Copper, total	<4	<4	<4	<4	<4	<4	<5
Cyanide, total		<.005					
Delta-bhc		<.05					
Diallate		<8					
Dibenzo(a,h)anthracene		<8					
Dibenzofuran		<8					
Dibromochloromethane	<1	<1	<1	<1	<1	<1	<1
Dibromomethane	<1	<1	<1	<1	<1	<1	<1
Dichlorodifluoromethane		<1					
Dieldrin		<.05					
Diethyl phthalate		<8					
Dimethoate		<.4					
Dimethylphthalate		<8					
Di-n-butyl phthalate		<8					
Di-n-octyl phthalate		<8					
Dinoseb		<.5					
Diphenylamine		<8					
Disulfoton		<.4					
Endosulfan i		<.05					
Endosulfan ii		<.05					
Endosulfan sulfate		<.05					
Endrin		<.05					
Endrin aldehyde		<.05					
Ethyl methacrylate		<10					
Ethyl methanesulfonate		<8					
Ethylbenzene	<1	<1	<1	<1	<1	<1	<1
Famphur		<.4					
Fluoranthene		<8					
Fluorene		<8					
Gamma-bhc (lindane)		<.05					
Heptachlor		<.05					
Heptachlor epoxide		<.05					
Hexachlorobenzene		<.05					

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

Table 9

Analytical Data Summary for MW-27

Constituents	Units	3/20/2014	9/15/2014	3/6/2015	8/24/2015	3/1/2016	9/9/2016	1/26/2017	3/22/2017	8/24/2017
Hexachlorobutadiene	ug/L								<8	
Hexachlorocyclopentadiene	ug/L								<8	
Hexachloroethane	ug/L								<8	
Hexachloropropene	ug/L								<8	
Indeno(1,2,3-cd)pyrene	ug/L								<8	
Isobutanol	ug/L								<1000	
Isodrin	ug/L								<8	
Isophorone	ug/L								<8	
Isosafrole	ug/L								<8	
Kepone	ug/L								<8	
Lead, total	ug/L	<4	<4	<4	<4	<4	<4		<4	<4
Mercury, total	ug/L								<.5	
Methacrylonitrile	ug/L								<1	
Methapyrilene	ug/L								<8	
Methoxychlor	ug/L								<.05	
Methyl iodide	ug/L	<1	<1	<1	<1	<1	<1		<1	<1
Methyl methacrylate	ug/L								<1	
Methyl methanesulfonate	ug/L								<8	
Methyl parathion	ug/L								<.4	
Methylene chloride	ug/L	<5	<5	<5	<5	<5	<5		<5	<5
Naphthalene	ug/L								<8	
Nickel, total	ug/L	<4	<4	<4	<4	<4	<4		<4	<4
Nitrobenzene	ug/L								<8	
N-nitrosodiethylamine	ug/L								<8	
N-nitrosodimethylamine	ug/L								<8	
N-nitrosodi-n-butylamine	ug/L								<8	
N-nitroso-di-n-propylamine	ug/L								<8	
N-nitrosodiphenylamine	ug/L								<8	
N-nitrosomethylethylamine	ug/L								<8	
N-nitrosopiperidine	ug/L								<8	
N-nitrosopyrrolidine	ug/L								<8	
O,o,o-triethyl phosphorothioate	ug/L								<.4	
O-toluidine	ug/L								<8	
Parathion	ug/L								<.4	
P-dimethylaminoazobenzene	ug/L								<8	
Pentachlorobenzene	ug/L								<8	
Pentachloronitrobenzene (pcnb)	ug/L								<8	
Pentachlorophenol	ug/L								<8	
Phenacetin	ug/L								<8	
Phenanthrene	ug/L								<8	
Phenol	ug/L								<8	
Phorate	ug/L								<.4	
Pronamide	ug/L								<8	
Propionitrile	ug/L								<10	
Pyrene	ug/L								<8	
Safrole	ug/L								<8	
Selenium, total	ug/L	<4	<4	<4	<4	<4	<4		<4	<4
Silver, total	ug/L	<4	<4	<4	<4	<4	<4		<4	<4
Solids, total suspended	mg/L		21	4						
Styrene	ug/L	<1	<1	<1	<1	<1	<1		<1	<1
Sulfide, total	mg/L								<.1	
Tetrachloroethylene	ug/L	<1	<1	<1	<1	<1	<1		<1	<1
Thallium, total	ug/L	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0		<4.0	<4.0
Thionazin	ug/L								<.4	
Tin, total	ug/L								<20	
Toluene	ug/L	<1	<1	<1	<1	<1	<1		<1	<1
Toxaphene	ug/L								<.2	
Trans-1,2-dichloroethylene	ug/L	<1	<1	<1	<1	<1	<1		<1	<1
Trans-1,3-dichloropropene	ug/L	<1	<1	<1	<1	<1	<1		<1	<1
Trans-1,4-dichloro-2-butene	ug/L	<5	<5	<5	<5	<5	<5		<5	<5
Trichloroethylene	ug/L	<1	<1	<1	<1	<1	<1		<1	<1
Trichlorofluoromethane	ug/L	<1	<1	<1	<1	<1	<1		<1	<1
Vanadium, total	ug/L	<20	<20	<20	<20	<20	<20		<20	<20
Vinyl acetate	ug/L	<5	<5	<5	<5	<5	<5		<5	<5
Vinyl chloride	ug/L	<1	<1	<1	<1	<1	<1		<1	<1
Xylenes, total	ug/L	<2	<2	<2	<2	<2	<2		<2	<2
Zinc, total	ug/L	10.7	<8.0	<8.0	<8.0	<8.0	<8.0		<8.0	<8.0

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

Table 9

Analytical Data Summary for MW-27

Constituents	2/26/2018	8/29/2018	3/18/2019	9/10/2019	3/25/2020	9/4/2020	3/2/2021	9/2/2021	3/2/2022
Hexachlorobutadiene	<8								
Hexachlorocyclopentadiene	<8								
Hexachloroethane	<8								
Hexachloropropene	<8								
Indeno(1,2,3-cd)pyrene	<8								
Isobutanol	<1000								
Isodrin	<8								
Isophorone	<8								
Isosafrole	<8								
Kepone	<8								
Lead, total	<4	<4	<4	<4	<4	<4	<4	<4	<4
Mercury, total	<.5								
Methacrylonitrile	<1								
Methapyrilene	<8								
Methoxychlor	<.05								
Methyl iodide	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methyl methacrylate	<1								
Methyl methanesulfonate	<8								
Methyl parathion	<.4								
Methylene chloride	<5	<5	<5	<5	<5	<5	<5	<5	<5
Naphthalene	<8								
Nickel, total	<4	<4	<4	<4	<4	<4	<4	<4	<4
Nitrobenzene	<8								
N-nitrosodiethylamine	<8								
N-nitrosodimethylamine	<8								
N-nitrosodi-n-butylamine	<8								
N-nitroso-di-n-propylamine	<8								
N-nitrosodiphenylamine	<8								
N-nitrosomethylethylamine	<8								
N-nitrosopiperidine	<8								
N-nitrosopyrrolidine	<8								
O,o,o-triethyl phosphorothioate	<.4								
O-toluidine	<8								
Parathion	<.4								
P-dimethylaminoazobenzene	<8								
Pentachlorobenzene	<8								
Pentachloronitrobenzene (pcnb)	<8								
Pentachlorophenol	<8								
Phenacetin	<8								
Phenanthrene	<8								
Phenol	<8								
Phorate	<.4								
Pronamide	<8								
Propionitrile	<10								
Pyrene	<8								
Safrole	<8								
Selenium, total	<4	<4	<4	<4	<4	<4	<4	<4	<4
Silver, total	<4	<4	<4	<4	<4	<4	<4	<4	<4
Solids, total suspended									
Styrene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Sulfide, total	<.1								
Tetrachloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Thallium, total	<4.0	<4.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Thionazin	<.4								
Tin, total	<20								
Toluene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toxaphene	<.2								
Trans-1,2-dichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,3-dichloropropene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,4-dichloro-2-butene	<5	<5	<5	<5	<5	<5	<5	<5	<5
Trichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vanadium, total	<20	<20	<20	<20	<20	<20	<20	<20	<20
Vinyl acetate	<5	<5	<5	<5	<5	<5	<5	<5	<5
Vinyl chloride	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	<2	<2	<2	<2	<2	<2	<2	<2	<2
Zinc, total	<8.0	46.3	<20.0	16.2	<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-27

Constituents	8/29/2022	3/23/2023	9/25/2023	3/5/2024	9/30/2024	3/6/2025	9/17/2025
Hexachlorobutadiene		<8					
Hexachlorocyclopentadiene		<8					
Hexachloroethane		<8					
Hexachloropropene		<8					
Indeno(1,2,3-cd)pyrene		<8					
Isobutanol		<1000					
Isodrin		<8					
Isophorone		<8					
Isosafrole		<8					
Kepone		<8					
Lead, total	<4	<4	<4	<4	<4	<4	<1
Mercury, total		<5					
Methacrylonitrile		<1					
Methapyrilene		<8					
Methoxychlor		<.05					
Methyl iodide	<1	<2	<1	<1	<1	<1	<1
Methyl methacrylate		<1					
Methyl methanesulfonate		<8					
Methyl parathion		<.4					
Methylene chloride	<5	<5	<5	<5	<5	<5	<5
Naphthalene		<8					
Nickel, total	<4	<4	<4	<4	<4	<4	<5
Nitrobenzene		<8					
N-nitrosodiethylamine		<8					
N-nitrosodimethylamine		<8					
N-nitrosodi-n-butylamine		<8					
N-nitroso-di-n-propylamine		<8					
N-nitrosodiphenylamine		<8					
N-nitrosomethylethylamine		<8					
N-nitrosopiperidine		<8					
N-nitrosopyrrolidine		<8					
O,o,o-triethyl phosphorothioate		<.4					
O-toluidine		<8					
Parathion		<.4					
P-dimethylaminoazobenzene		<8					
Pentachlorobenzene		<8					
Pentachloronitrobenzene (pcnb)		<8					
Pentachlorophenol		<8					
Phenacetin		<8					
Phenanthrene		<8					
Phenol		<8					
Phorate		<.4					
Pronamide		<8					
Propionitrile		<10					
Pyrene		<8					
Safrole		<8					
Selenium, total	<4	<4	<4	<4	<4	<4	<2
Silver, total	<4	<4	<4	<4	<4	<4	<5
Solids, total suspended							
Styrene	<1	<1	<1	<1	<1	<1	<1
Sulfide, total		<1					
Tetrachloroethylene	<1	<1	<1	<1	<1	<1	<1
Thallium, total	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<.5
Thionazin		<.4					
Tin, total		<20					
Toluene	<1	<1	<1	<1	<1	<1	<1
Toxaphene		<.2					
Trans-1,2-dichloroethylene	<1	<1	<1	<1	<1	<1	<1
Trans-1,3-dichloropropene	<1	<1	<1	<1	<1	<1	<1
Trans-1,4-dichloro-2-butene	<5	<5	<5	<5	<5	<5	<5
Trichloroethylene	<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	<1	<1	<1	<1	<1	<1	<1
Vanadium, total	<20	<20	<20	<20	<20	<20	<2
Vinyl acetate	<5	<5	<5	<5	<5	<5	<5
Vinyl chloride	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	<2	<2	<2	<2	<2	<2	<2
Zinc, total	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<5.0

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

Table 9

Analytical Data Summary for MW-33

Constituents	Units	3/20/2014	9/15/2014	3/6/2015	8/24/2015	3/1/2016	9/9/2016	3/22/2017	6/7/2017	8/24/2017
1,1,1,2-tetrachloroethane	ug/L	<1	<1	<1	<1	<1	<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-dichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1		<1
1,2,3-trichloropropane	ug/L	<1	<1	<1	<1	<1	<1	<1		<1
1,2-dibromo-3-chloropropane	ug/L	<1	<1	<1	<1	<1	<1	<1		<1
1,2-dibromoethane	ug/L	<1	<1	<1	<1	<1	<1	<1		<1
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
1,4-dichlorobenzene	ug/L	<1	<1	<1	<1	<1	<1	<1		<1
2-butanone (mek)	ug/L	<5	<5	<5	<5	<5	<5	<5		<5
2-hexanone (mbk)	ug/L	<5	<5	<5	<5	<5	<5	<5		<5
4-methyl-2-pentanone (mibk)	ug/L	<5	<5	<5	<5	<5	<5	<5		<5
Acetone	ug/L	<10	<10	<10	<10	<10	<10	<10		<10
Acrylonitrile	ug/L	<5	<5	<5	<5	<5	<5	<5		<5
Antimony, total	ug/L	<2	<2	<2	<2	<2	<2	<2		<2
Arsenic, total	ug/L	<4	<4	<4	<4	<4	<4	<4		<4
Barium, total	ug/L	70.8	122.0	112.0	131.0	98.9	158.0	274.0	129.0	163.0
Benzene	ug/L	<1	<1	<1	<1	<1	<1	<1		<1
Beryllium, total	ug/L	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0		<4.0
Bromochloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1		<1
Bromodichloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1		<1
Bromoform	ug/L	<1	<1	<1	<1	<1	<1	<1		<1
Bromomethane	ug/L	<1	<1	<1	<1	<1	<1	<1		<1
Cadmium, total	ug/L	<8	<8	<8	<8	<8	<8	<8		<8
Carbon disulfide	ug/L	<1	<1	<1	<1	<1	<1	<1		<1
Carbon tetrachloride	ug/L	<1	<1	<1	<1	<1	<1	<1		<1
Chlorobenzene	ug/L	<1	<1	<1	<1	<1	<1	<1		<1
Chloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1		<1
Chloroform	ug/L	<1	<1	<1	<1	<1	<1	<1		<1
Chloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1		<1
Chromium, total	ug/L	<8	<8	<8	<8	<8	<8	<8		<8
Cis-1,2-dichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1		<1
Cis-1,3-dichloropropene	ug/L	<1	<1	<1	<1	<1	<1	<1		<1
Cobalt, total	ug/L	<4.0	<8	<8	<8	<8	<8	<8		<8
Copper, total	ug/L	<4	<4	<4	<4	<4	<4	<4		<4
Dibromochloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1		<1
Dibromomethane	ug/L	<1	<1	<1	<1	<1	<1	<1		<1
Ethylbenzene	ug/L	<1	<1	<1	<1	<1	<1	<1		<1
Lead, total	ug/L	<4	<4	<4	<4	<4	<4	<4		<4
Methyl iodide	ug/L	<1	<1	<1	<1	<1	<1	<1		<1
Methylene chloride	ug/L	<5	<5	<5	<5	<5	<5	<5		<5
Nickel, total	ug/L	<4	<4	<4	<4	<4	<4	<4		<4
Selenium, total	ug/L	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	4.7		<4.0
Silver, total	ug/L	<4	<4	<4	<4	<4	<4	<4		<4
Solids, total suspended	mg/L		33	20						
Styrene	ug/L	<1	<1	<1	<1	<1	<1	<1		<1
Tetrachloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1		<1
Thallium, total	ug/L	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0		<4.0
Toluene	ug/L	<1	<1	<1	<1	<1	<1	<1		<1
Trans-1,2-dichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1		<1
Trans-1,3-dichloropropene	ug/L	<1	<1	<1	<1	<1	<1	<1		<1
Trans-1,4-dichloro-2-butene	ug/L	<5	<5	<5	<5	<5	<5	<5		<5
Trichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1		<1
Trichlorofluoromethane	ug/L	<1	<1	<1	<1	<1	<1	<1		<1
Vanadium, total	ug/L	<20	<20	<20	<20	<20	<20	<20		<20
Vinyl acetate	ug/L	<5	<5	<5	<5	<5	<5	<5		<5
Vinyl chloride	ug/L	<1	<1	<1	<1	<1	<1	<1		<1
Xylenes, total	ug/L	<2	<2	<2	<2	<2	<2	<2		<2
Zinc, total	ug/L	8.3	12.9	<8.0	19.1	<8.0	9.8	<8.0		<8.0

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

Table 9

Analytical Data Summary for MW-33

Constituents	2/26/2018	8/29/2018	3/18/2019	9/10/2019	3/25/2020	9/4/2020	3/2/2021	9/2/2021	3/2/2022	8/29/2022
1,1,1,2-tetrachloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-trichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-trichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,3-trichloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dibromo-3-chloropropane	<1	<1	<1	<1	<5	<5	<5	<5	<5	<5
1,2-dibromoethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-butanone (mek)	<5	<5	<5	<5	<5	<5	<5	<5	<10	<10
2-hexanone (mbk)	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
4-methyl-2-pentanone (mibk)	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Acetone	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Acrylonitrile	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Antimony, total	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Arsenic, total	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Barium, total	171.0	162.0	282.0	214.0	144.0	209.0	115.0	194.0	189.0	174.0
Benzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Beryllium, total	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Bromochloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromodichloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromoform	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromomethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cadmium, total	<.8	<.8	<.8	<.8	<.8	<.8	<.8	<.8	<.8	<.8
Carbon disulfide	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon tetrachloride	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chromium, total	<8	<8	<8	<8	<8	<8	<8	<8	<8	<8
Cis-1,2-dichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cis-1,3-dichloropropene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cobalt, total	<.8	<.8	<.8	<.8	<.8	<.8	.9	2.6	<.4	<.4
Copper, total	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Dibromochloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromomethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Lead, total	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Methyl iodide	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene chloride	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Nickel, total	<4	<8	<4	<4	<4	<4	<4	<4	<4	<4
Selenium, total	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Silver, total	<4	<8	<4	<4	<4	<4	<4	<4	<4	<4
Solids, total suspended										
Styrene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Thallium, total	<4.0	<4.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Toluene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,2-dichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,3-dichloropropene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,4-dichloro-2-butene	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Trichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vanadium, total	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
Vinyl acetate	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Vinyl chloride	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Zinc, total	<8.0	40.8	30.2	<8.0	<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-33

Constituents	3/23/2023	9/25/2023	3/5/2024	9/30/2024	3/6/2025	9/17/2025
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-dichloroethylene	<1	<1	<1	<1	<1	<1
1,2,3-trichloropropane	<1	<1	<1	<1	<1	<1
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
1,4-dichlorobenzene	<1	<1	<1	<1	<1	<1
2-butanone (mek)	<10	<10	<10	<10	<10	<10
2-hexanone (mbk)	<5	<5	<5	<5	<5	<5
4-methyl-2-pentanone (mibk)	<5	<5	<5	<5	<5	<5
Acetone	<10	<10	<10	<10	<10	<10
Acrylonitrile	<5	<5	<5	<5	<5	<5
Antimony, total	<2	<2	<2	<2	<2	<1
Arsenic, total	<4	<4	<4	<4	<4	<2
Barium, total	82.7	147.0	77.3	167.0	169.0	170.0
Benzene	<1	<1	<1	<1	<1	<1
Beryllium, total	<4.0	<4.0	<4.0	<4.0	<4.0	<5
Bromochloromethane	<1	<1	<1	<1	<1	<1
Bromodichloromethane	<1	<1	<1	<1	<1	<1
Bromoform	<1	<1	<1	<1	<1	<1
Bromomethane	<1	<1	<1	<1	<1	<1
Cadmium, total	<.8	<.8	<.8	<.8	<.8	<.2
Carbon disulfide	<1	<1	<1	<1	<1	<1
Carbon tetrachloride	<1	<1	<1	<1	<1	<1
Chlorobenzene	<1	<1	<1	<1	<1	<1
Chloroethane	<1	<1	<1	<1	<1	<1
Chloroform	<1	<1	<1	<1	<1	<1
Chloromethane	<1	<1	<1	<1	<1	<1
Chromium, total	<8	<8	<8	<8	<8	<1
Cis-1,2-dichloroethylene	<1	<1	<1	<1	<1	<1
Cis-1,3-dichloropropene	<1	<1	<1	<1	<1	<1
Cobalt, total	<.4	<.4	<.4	<.4	<.4	<.5
Copper, total	<4	<4	<4	<4	<4	<5
Dibromochloromethane	<1	<1	<1	<1	<1	<1
Dibromomethane	<1	<1	<1	<1	<1	<1
Ethylbenzene	<1	<1	<1	<1	<1	<1
Lead, total	<4	<4	<4	<4	<4	<1
Methyl iodide	<1	<1	<1	<1	<1	<1
Methylene chloride	<5	<5	<5	<5	<5	<5
Nickel, total	<4	<4	<4	<4	<4	<5
Selenium, total	<4.0	<4.0	<4.0	<4.0	<4.0	<2.0
Silver, total	<4	<4	<4	<4	<4	<5
Solids, total suspended						
Styrene	<1	<1	<1	<1	<1	<1
Tetrachloroethylene	<1	<1	<1	<1	<1	<1
Thallium, total	<2.0	<2.0	<2.0	<2.0	<2.0	<.5
Toluene	<1	<1	<1	<1	<1	<1
Trans-1,2-dichloroethylene	<1	<1	<1	<1	<1	<1
Trans-1,3-dichloropropene	<1	<1	<1	<1	<1	<1
Trans-1,4-dichloro-2-butene	<5	<5	<5	<5	<5	<5
Trichloroethylene	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	<1	<1	<1	<1	<1	<1
Vanadium, total	<20	<20	<20	<20	<20	<2
Vinyl acetate	<5	<5	<5	<5	<5	<5
Vinyl chloride	<1	<1	<1	<1	<1	<1
Xylenes, total	<2	<2	<2	<2	<2	<2
Zinc, total	<20.0	<20.0	<20.0	<20.0	<20.0	<5.0

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

Table 9

Analytical Data Summary for MW-34

Constituents	Units	3/20/2014	8/20/2014	9/15/2014	3/6/2015	8/24/2015	3/1/2016	9/9/2016	3/22/2017	8/24/2017
(3,4)-methylphenol	ug/L									
1,1,1,2-tetrachloroethane	ug/L	<1		<1	<1	<1	<1	<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-dichloroethylene	ug/L	<1		<1	<1	<1	<1	<1	<1	<1
1,1-dichloropropene	ug/L									
1,2,3-trichloropropane	ug/L	<1		<1	<1	<1	<1	<1	<1	<1
1,2,4,5-tetrachlorobenzene	ug/L									
1,2,4-trichlorobenzene	ug/L									
1,2-dibromo-3-chloropropane	ug/L	<1		<1	<1	<1	<1	<1	<1	<1
1,2-dibromoethane	ug/L	<1		<1	<1	<1	<1	<1	<1	<1
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
1,2-dinitrobenzene	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	<1.0		<1.0	<1.0	5.8	8.8	8.7	4.9	7.9
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	ug/L									
2,4,5-tp (silvex)	ug/L									
2,4,5-trichlorophenol	ug/L									
2,4,6-trichlorophenol	ug/L									
2,4-d	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 (mek)	ug/L	<5		<5	<5	<5	<5	<5	<5	<5
2-chloronaphthalene	ug/L									
2-chlorophenol	ug/L									
2-hexanone (mbk)	ug/L	<5		<5	<5	<5	<5	<5	<5	<5
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-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 (mibk)	ug/L	<5		<5	<5	<5	<5	<5	<5	<5
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		<10	<10	<10	<10	<10	<10	<10
Acetonitrile	ug/L									
Acetophenone	ug/L									
Acrolein	ug/L									
Acrylonitrile	ug/L	<5		<5	<5	<5	<5	<5	<5	<5
Aldrin	ug/L									
Allyl chloride	ug/L									
Alpha-bhc	ug/L									
Anthracene	ug/L									

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

Table 9

Analytical Data Summary for MW-34

Constituents	11/15/2017	2/26/2018	8/29/2018	3/18/2019	9/10/2019	3/25/2020	9/4/2020	3/2/2021	9/2/2021
(3,4)-methylphenol		<8							
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-dichloroethylene		<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloropropene		<1							
1,2,3-trichloropropane		<1	<1	<1	<1	<1	<1	<1	<1
1,2,4,5-tetrachlorobenzene		<8							
1,2,4-trichlorobenzene		<1							
1,2-dibromo-3-chloropropane		<1	<1	<1	<1	<5	<5	<5	<5
1,2-dibromoethane		<1	<1	<1	<1	<1	<1	<1	<1
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
1,2-dinitrobenzene		<8							
1,3,5-trinitrobenzene		<8							
1,3-dichlorobenzene		<1							
1,3-dichloropropane		<1							
1,3-dinitrobenzene		<8							
1,4-dichlorobenzene		2.1	2.6	<1.0	<1.0	<1.0	7.0	10.6	7.9
1,4-naphthoquinone		<8							
1,4-phenylenediamine		<8							
1-naphthylamine		<8							
2,2-dichloropropane		<1							
2,3,4,6-tetrachlorophenol		<8							
2,4,5-t		<.5							
2,4,5-tp (silvex)		<.5							
2,4,5-trichlorophenol		<8							
2,4,6-trichlorophenol		<8							
2,4-d		<2							
2,4-dichlorophenol		<8							
2,4-dimethylphenol		<8							
2,4-dinitrophenol		<8							
2,4-dinitrotoluene		<8							
2,6-dichlorophenol		<8							
2,6-dinitrotoluene		<8							
2-acetylaminofluorene		<8							
2-butanone (mek)		<5	<5	<5	<5	<5	<5	<5	<5
2-chloronaphthalene		<8							
2-chlorophenol		<8							
2-hexanone (mbk)		<5	<5	<5	<5	<5	<5	<5	<5
2-methylnaphthalene		<8							
2-methylphenol		<8							
2-naphthylamine		<8							
2-nitroaniline		<8							
2-nitrophenol		<8							
3,3'-dichlorobenzidine		<8							
3,3'-dimethylbenzidine		<8							
3-methylcholanthrene		<8							
3-nitroaniline		<8							
4,4'-ddd		<.05							
4,4'-dde		<.05							
4,4'-ddt		<.05							
4,6-dinitro-2-methylphenol		<8							
4-aminobiphenyl		<8							
4-bromophenyl phenyl ether		<8							
4-chloro-3-methylphenol		<8							
4-chloroaniline		<8							
4-chlorophenyl phenyl ether		<8							
4-methyl-2-pentanone (mibk)		<5	<5	<5	<5	<5	<5	<5	<5
4-nitroaniline		<8							
4-nitrophenol		<8							
5-nitro-o-toluidine		<8							
7,12-dimethylbenz(a)anthracene		<8							
Acenaphthene		<8							
Acenaphthylene		<8							
Acetone		<10	<10	<10	<10	<10	<10	<10	<10
Acetonitrile		<10							
Acetophenone		<8							
Acrolein		<10							
Acrylonitrile		<5	<5	<5	<5	<5	<5	<5	<5
Aldrin		<.05							
Allyl chloride		<1							
Alpha-bhc		<.05							
Anthracene		<8							

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

Table 9

Analytical Data Summary for MW-34

Constituents	3/2/2022	8/29/2022	3/23/2023	9/25/2023	3/5/2024	9/30/2024	3/6/2025	9/17/2025
(3,4)-methylphenol			<8					
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-dichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloropropene			<1					
1,2,3-trichloropropane	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4,5-tetrachlorobenzene			<8					
1,2,4-trichlorobenzene			<1					
1,2-dibromo-3-chloropropane	<5	<5	<1	<5	<5	<5	<5	<5
1,2-dibromoethane	<1	<1	<1	<1	<1	<1	<1	<1
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
1,2-dinitrobenzene			<8					
1,3,5-trinitrobenzene			<8					
1,3-dichlorobenzene			<1					
1,3-dichloropropane			<1					
1,3-dinitrobenzene			<8					
1,4-dichlorobenzene	1.5	3.9	1.1	9.4	<1.0	1.4	<1.0	2.4
1,4-naphthoquinone			<8					
1,4-phenylenediamine			<8					
1-naphthylamine			<8					
2,2-dichloropropane			<1					
2,3,4,6-tetrachlorophenol			<8					
2,4,5-t			<.5					
2,4,5-tp (silvex)			<.5					
2,4,5-trichlorophenol			<8					
2,4,6-trichlorophenol			<8					
2,4-d			<2					
2,4-dichlorophenol			<8					
2,4-dimethylphenol			<8					
2,4-dinitrophenol			<8					
2,4-dinitrotoluene			<8					
2,6-dichlorophenol			<8					
2,6-dinitrotoluene			<8					
2-acetylaminofluorene			<8					
2-butanone (mek)	<10	<10	<5	<10	<10	<10	<10	<10
2-chloronaphthalene			<8					
2-chlorophenol			<8					
2-hexanone (mbk)	<5	<5	<5	<5	<5	<5	<5	<5
2-methylnaphthalene			<8					
2-methylphenol			<8					
2-naphthylamine			<8					
2-nitroaniline			<8					
2-nitrophenol			<8					
3,3'-dichlorobenzidine			<8					
3,3'-dimethylbenzidine			<8					
3-methylcholanthrene			<8					
3-nitroaniline			<8					
4,4'-ddd			<.05					
4,4'-dde			<.05					
4,4'-ddt			<.05					
4,6-dinitro-2-methylphenol			<8					
4-aminobiphenyl			<8					
4-bromophenyl phenyl ether			<8					
4-chloro-3-methylphenol			<8					
4-chloroaniline			<8					
4-chlorophenyl phenyl ether			<8					
4-methyl-2-pentanone (mibk)	<5	<5	<5	<5	<5	<5	<5	<5
4-nitroaniline			<8					
4-nitrophenol			<8					
5-nitro-o-toluidine			<8					
7,12-dimethylbenz(a)anthracene			<8					
Acenaphthene			<8					
Acenaphthylene			<8					
Acetone	<10	<10	<10	<10	<10	<10	<10	<10
Acetonitrile			<10					
Acetophenone			<8					
Acrolein			<10					
Acrylonitrile	<5	<5	<5	<5	<5	<5	<5	<5
Aldrin			<.05					
Allyl chloride			<1					
Alpha-bhc			<.05					
Anthracene			<8					

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

Table 9

Analytical Data Summary for MW-34

Constituents	Units	3/20/2014	8/20/2014	9/15/2014	3/6/2015	8/24/2015	3/1/2016	9/9/2016	3/22/2017	8/24/2017
Antimony, total	ug/L	<2		<2	<2	<2	<2	<2	<2	<2
Arochlor 1016	ug/L									
Arochlor 1221	ug/L									
Arochlor 1232	ug/L									
Arochlor 1242	ug/L									
Arochlor 1248	ug/L									
Arochlor 1254	ug/L									
Arochlor 1260	ug/L									
Arsenic, total	ug/L	<4.0		<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Azobenzene	ug/L									
Barium, total	ug/L	217.0		124.0	161.0	193.0	130.0	135.0	101.0	195.0
Benzene	ug/L	<1.0		<1.0	<1.0	1.4	<1.0	<1.0	1.2	1.3
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, total	ug/L	<4.0		<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
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	<10	14	36	<10	13	<10	<10	<10	<6
Bromochloromethane	ug/L	<1		<1	<1	<1	<1	<1	<1	<1
Bromodichloromethane	ug/L	<1		<1	<1	<1	<1	<1	<1	<1
Bromoform	ug/L	<1		<1	<1	<1	<1	<1	<1	<1
Bromomethane	ug/L	<1		<1	<1	<1	<1	<1	<1	<1
Butyl benzyl phthalate	ug/L									
Cadmium, total	ug/L	<.8		<.8	<.8	<.8	<.8	<.8	<.8	<.8
Carbon disulfide	ug/L	<1		<1	<1	<1	<1	<1	<1	<1
Carbon tetrachloride	ug/L	<1		<1	<1	<1	<1	<1	<1	<1
Chlordane	ug/L									
Chlorobenzene	ug/L	<1.0		<1.0	<1.0	2.0	2.8	2.7	2.0	3.0
Chlorobenzilate	ug/L									
Chloroethane	ug/L	<1.0		<1.0	<1.0	<1.0	1.6	<1.0	<1.0	<1.0
Chloroform	ug/L	<1		<1	<1	<1	<1	<1	<1	<1
Chloromethane	ug/L	<1		<1	<1	<1	<1	<1	<1	<1
Chloroprene	ug/L									
Chromium, total	ug/L	<8.0		<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0
Chrysene	ug/L									
Cis-1,2-dichloroethylene	ug/L	<1		<1	<1	<1	<1	<1	<1	<1
Cis-1,3-dichloropropene	ug/L	<1		<1	<1	<1	<1	<1	<1	<1
Cobalt, total	ug/L	<4.0		<.8	<.8	2.1	.8	.8	<.8	3.2
Copper, total	ug/L	6.9		<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Cyanide, total	mg/L									
Delta-bhc	ug/L									
Diallate	ug/L									
Dibenzo(a,h)anthracene	ug/L									
Dibenzofuran	ug/L									
Dibromochloromethane	ug/L	<1		<1	<1	<1	<1	<1	<1	<1
Dibromomethane	ug/L	<1		<1	<1	<1	<1	<1	<1	<1
Dichlorodifluoromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dieldrin	ug/L									
Diethyl phthalate	ug/L									
Dimethoate	ug/L									
Dimethylphthalate	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		<1	<1	<1	<1	<1	<1	<1
Famphur	ug/L									
Fluoranthene	ug/L									
Fluorene	ug/L									
Gamma-bhc (lindane)	ug/L									
Heptachlor	ug/L									
Heptachlor epoxide	ug/L									
Hexachlorobenzene	ug/L									

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

Table 9

Analytical Data Summary for MW-34

Constituents	11/15/2017	2/26/2018	8/29/2018	3/18/2019	9/10/2019	3/25/2020	9/4/2020	3/2/2021	9/2/2021
Antimony, total		<2	<2	<2	<2	<2	<2	<2	<2
Arochlor 1016		<.1							
Arochlor 1221		<.2							
Arochlor 1232		<.2							
Arochlor 1242		<.2							
Arochlor 1248		<.2							
Arochlor 1254		<.1							
Arochlor 1260		<.1							
Arsenic, total	<2.0	<4.0	<4.0	<4.0	4.4	<4.0	<4.0	<4.0	<4.0
Azobenzene		<8							
Barium, total	157.0	159.0	136.0	117.0	190.0	158.0	185.0	200.0	247.0
Benzene		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.8	<1.0
Benzo(a)anthracene		<8							
Benzo(a)pyrene		<8							
Benzo(b)fluoranthene		<8							
Benzo(g,h,i)perylene		<8							
Benzo(k)fluoranthene		<8							
Benzyl alcohol		<8							
Beryllium, total		<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Beta-bhc		<.05							
Bis (2-chloroethoxy) methane		<8							
Bis(2-chloroethyl) ether		<8							
Bis(2-chloroisopropyl) ether		<8							
Bis(2-ethylhexyl) phthalate		145	<6	<6	46	<6	<6	<6	
Bromochloromethane		<1	<1	<1	<1	<1	<1	<1	<1
Bromodichloromethane		<1	<1	<1	<1	<1	<1	<1	<1
Bromoform		<1	<1	<1	<1	<1	<1	<1	<1
Bromomethane		<1	<1	<1	<1	<1	<1	<1	<1
Butyl benzyl phthalate		<8							
Cadmium, total		<.8	<.8	<.8	<.8	<.8	<.8	<.8	<.8
Carbon disulfide		<1	<1	<1	<1	<1	<1	<1	<1
Carbon tetrachloride		<1	<1	<1	<1	<1	<1	<1	<1
Chlordane		<.1							
Chlorobenzene		<1.0	<1.0	1.2	1.8	<1.0	2.6	4.1	3.4
Chlorobenzilate		<8							
Chloroethane		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroform		<1	<1	<1	<1	<1	<1	<1	<1
Chloromethane		<1	<1	<1	<1	<1	<1	<1	<1
Chloroprene		<1							
Chromium, total		<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0
Chrysene		<8							
Cis-1,2-dichloroethylene		<1	<1	<1	<1	<1	<1	<1	<1
Cis-1,3-dichloropropene		<1	<1	<1	<1	<1	<1	<1	<1
Cobalt, total	<.8	<.8	<.8	1.9	2.9	2.0	1.7	2.3	5.6
Copper, total		<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Cyanide, total		<.005							
Delta-bhc		<.05							
Diallate		<8							
Dibenzo(a,h)anthracene		<8							
Dibenzofuran		<8							
Dibromochloromethane		<1	<1	<1	<1	<1	<1	<1	<1
Dibromomethane		<1	<1	<1	<1	<1	<1	<1	<1
Dichlorodifluoromethane		<1	<1	<1	<1				
Dieldrin		<.05							
Diethyl phthalate		<8							
Dimethoate		<.4							
Dimethylphthalate		<8							
Di-n-butyl phthalate		<8							
Di-n-octyl phthalate		<8							
Dinoseb		<.5							
Diphenylamine		<8							
Disulfoton		<.4							
Endosulfan i		<.05							
Endosulfan ii		<.05							
Endosulfan sulfate		<.05							
Endrin		<.05							
Endrin aldehyde		<.05							
Ethyl methacrylate		<10							
Ethyl methanesulfonate		<8							
Ethylbenzene		<1	<1	<1	<1	<1	<1	<1	<1
Famphur		<.4							
Fluoranthene		<8							
Fluorene		<8							
Gamma-bhc (lindane)		<.05							
Heptachlor		<.05							
Heptachlor epoxide		<.05							
Hexachlorobenzene		<.05							

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

Table 9

Analytical Data Summary for MW-34

Constituents	3/2/2022	8/29/2022	3/23/2023	9/25/2023	3/5/2024	9/30/2024	3/6/2025	9/17/2025
Antimony, total	<2	<2	<2	<2	<2	<2	<2	<1
Arochlor 1016			<.1					
Arochlor 1221			<.2					
Arochlor 1232			<.2					
Arochlor 1242			<.2					
Arochlor 1248			<.2					
Arochlor 1254			<.1					
Arochlor 1260			<.1					
Arsenic, total	<4.0	<4.0	<4.0	<4.0	<4.0	4.2	<4.0	3.4
Azobenzene			<8					
Barium, total	106.0	206.0	114.0	200.0	192.0	207.0	89.4	178.0
Benzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Benzo(a)anthracene			<8					
Benzo(a)pyrene			<8					
Benzo(b)fluoranthene			<8					
Benzo(g,h,i)perylene			<8					
Benzo(k)fluoranthene			<8					
Benzyl alcohol			<8					
Beryllium, total	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<5
Beta-bhc			<.05					
Bis (2-chloroethoxy) methane			<8					
Bis(2-chloroethyl) ether			<8					
Bis(2-chloroisopropyl) ether			<8					
Bis(2-ethylhexyl) phthalate	8	<6	<6					
Bromochloromethane	<1	<1	<1	<1	<1	<1	<1	<1
Bromodichloromethane	<1	<1	<1	<1	<1	<1	<1	<1
Bromoform	<1	<1	<1	<1	<1	<1	<1	<1
Bromomethane	<1	<1	<1	<1	<1	<1	<1	<1
Butyl benzyl phthalate			<8					
Cadmium, total	<.8	<.8	<.8	<.8	<.8	<.8	<.8	<.2
Carbon disulfide	<1	<1	<1	<1	<1	<1	<1	<1
Carbon tetrachloride	<1	<1	<1	<1	<1	<1	<1	<1
Chlordane			<.1					
Chlorobenzene	<1.0	1.7	<1.0	1.8	<1.0	<1.0	<1.0	1.7
Chlorobenzilate			<8					
Chloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroform	<1	<1	<1	<1	<1	<1	<1	<1
Chloromethane	<1	<1	<1	<1	<1	<1	<1	<1
Chloroprene			<1					
Chromium, total	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	1.2
Chrysene			<8					
Cis-1,2-dichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1
Cis-1,3-dichloropropene	<1	<1	<1	<1	<1	<1	<1	<1
Cobalt, total	.5	1.3	<.4	1.6	.5	5.4	<.4	3.6
Copper, total	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<5.0
Cyanide, total			<.005					
Delta-bhc			<.05					
Diallate			<8					
Dibenzo(a,h)anthracene			<8					
Dibenzofuran			<8					
Dibromochloromethane	<1	<1	<1	<1	<1	<1	<1	<1
Dibromomethane	<1	<1	<1	<1	<1	<1	<1	<1
Dichlorodifluoromethane			<1					
Dieldrin			<.05					
Diethyl phthalate			<8					
Dimethoate			<.4					
Dimethylphthalate			<8					
Di-n-butyl phthalate			<8					
Di-n-octyl phthalate			<8					
Dinoseb			<.5					
Diphenylamine			<8					
Disulfoton			<.4					
Endosulfan i			<.05					
Endosulfan ii			<.05					
Endosulfan sulfate			<.05					
Endrin			<.05					
Endrin aldehyde			<.05					
Ethyl methacrylate			<10					
Ethyl methanesulfonate			<8					
Ethylbenzene	<1	<1	<1	<1	<1	<1	<1	<1
Famphur			<.4					
Fluoranthene			<8					
Fluorene			<8					
Gamma-bhc (lindane)			<.05					
Heptachlor			<.05					
Heptachlor epoxide			<.05					
Hexachlorobenzene			<.05					

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

Table 9

Analytical Data Summary for MW-34

Constituents	Units	3/20/2014	8/20/2014	9/15/2014	3/6/2015	8/24/2015	3/1/2016	9/9/2016	3/22/2017	8/24/2017
Hexachlorobutadiene	ug/L									
Hexachlorocyclopentadiene	ug/L									
Hexachloroethane	ug/L									
Hexachloropropene	ug/L									
Indeno(1,2,3-cd)pyrene	ug/L									
Isobutanol	ug/L									
Isodrin	ug/L									
Isophorone	ug/L									
Isosafrole	ug/L									
Kepone	ug/L									
Lead, total	ug/L	<4		<4	<4	<4	<4	<4	<4	<4
Mercury, total	ug/L									
Methacrylonitrile	ug/L									
Methapyrilene	ug/L									
Methoxychlor	ug/L									
Methyl iodide	ug/L	<1		<1	<1	<1	<1	<1	<1	<1
Methyl methacrylate	ug/L									
Methyl methanesulfonate	ug/L									
Methyl parathion	ug/L									
Methylene chloride	ug/L	<5		<5	<5	<5	<5	<5	<5	<5
Naphthalene	ug/L									
Nickel, total	ug/L	4.4		<4.0	5.5	14.7	9.6	7.9	5.0	14.7
Nitrobenzene	ug/L									
N-nitrosodiethylamine	ug/L									
N-nitrosodimethylamine	ug/L									
N-nitrosodi-n-butylamine	ug/L									
N-nitroso-di-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	ug/L									
P-dimethylaminoazobenzene	ug/L									
Pentachlorobenzene	ug/L									
Pentachloronitrobenzene (pcnb)	ug/L									
Pentachlorophenol	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, total	ug/L	<4		<4	<4	<4	<4	<4	<4	<4
Silver, total	ug/L	<4		<4	<4	<4	<4	<4	<4	<4
Solids, total suspended	mg/L			95	29					
Styrene	ug/L	<1		<1	<1	<1	<1	<1	<1	<1
Sulfide, total	mg/L									
Tetrachloroethylene	ug/L	<1		<1	<1	<1	<1	<1	<1	<1
Thallium, total	ug/L	<4.0		<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Thionazin	ug/L									
Tin, total	ug/L									
Toluene	ug/L	<1		<1	<1	<1	<1	<1	<1	<1
Toxaphene	ug/L									
Trans-1,2-dichloroethylene	ug/L	<1		<1	<1	<1	<1	<1	<1	<1
Trans-1,3-dichloropropene	ug/L	<1		<1	<1	<1	<1	<1	<1	<1
Trans-1,4-dichloro-2-butene	ug/L	<5		<5	<5	<5	<5	<5	<5	<5
Trichloroethylene	ug/L	<1		<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	ug/L	<1		<1	<1	<1	<1	<1	<1	<1
Vanadium, total	ug/L	<20		<20	<20	<20	<20	<20	<20	<20
Vinyl acetate	ug/L	<5		<5	<5	<5	<5	<5	<5	<5
Vinyl chloride	ug/L	<1		<1	<1	<1	<1	<1	<1	<1
Xylenes, total	ug/L	<2		<2	<2	<2	<2	<2	<2	<2
Zinc, total	ug/L	<8.0		<8.0	<8.0	31.2	<8.0	<8.0	<8.0	<8.0

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

Table 9

Analytical Data Summary for MW-34

Constituents	11/15/2017	2/26/2018	8/29/2018	3/18/2019	9/10/2019	3/25/2020	9/4/2020	3/2/2021	9/2/2021
Hexachlorobutadiene		<8							
Hexachlorocyclopentadiene		<8							
Hexachloroethane		<8							
Hexachloropropene		<8							
Indeno(1,2,3-cd)pyrene		<8							
Isobutanol		<1000							
Isodrin		<8							
Isophorone		<8							
Isosafrole		<8							
Kepone		<8							
Lead, total		<4	<4	<4	<4	<4	<4	<4	<4
Mercury, total		<.5							
Methacrylonitrile		<1							
Methapyrilene		<8							
Methoxychlor		<.05							
Methyl iodide		<1	<1	<1	<1	<1	<1	<1	<1
Methyl methacrylate		<1							
Methyl methanesulfonate		<8							
Methyl parathion		<.4							
Methylene chloride		<5	<5	<5	<5	<5	<5	<5	<5
Naphthalene		<8							
Nickel, total		8.2	4.3	9.2	12.0	5.4	11.3	8.9	13.9
Nitrobenzene		<8							
N-nitrosodiethylamine		<8							
N-nitrosodimethylamine		<8							
N-nitrosodi-n-butylamine		<8							
N-nitroso-di-n-propylamine		<8							
N-nitrosodiphenylamine		<8							
N-nitrosomethylethylamine		<8							
N-nitrosopiperidine		<8							
N-nitrosopyrrolidine		<8							
O,o,o-triethyl phosphorothioate		<.4							
O-toluidine		<8							
Parathion		<.4							
P-dimethylaminoazobenzene		<8							
Pentachlorobenzene		<8							
Pentachloronitrobenzene (pcnb)		<8							
Pentachlorophenol		<8							
Phenacetin		<8							
Phenanthrene		<8							
Phenol		<8							
Phorate		<.4							
Pronamide		<8							
Propionitrile		<10							
Pyrene		<8							
Safrole		<8							
Selenium, total		<4	<4	<4	<4	<4	<4	<4	<4
Silver, total		<4	<4	<4	<4	<4	<4	<4	<4
Solids, total suspended									
Styrene		<1	<1	<1	<1	<1	<1	<1	<1
Sulfide, total		<.1							
Tetrachloroethylene		<1	<1	<1	<1	<1	<1	<1	<1
Thallium, total		<4.0	<4.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Thionazin		<.4							
Tin, total		<20							
Toluene		<1	<1	<1	<1	<1	<1	<1	<1
Toxaphene		<.2							
Trans-1,2-dichloroethylene		<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,3-dichloropropene		<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,4-dichloro-2-butene		<5	<5	<5	<5	<5	<5	<5	<5
Trichloroethylene		<1	<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane		<1	<1	<1	<1	<1	<1	<1	<1
Vanadium, total		<20	<20	<20	<20	<20	<20	<20	<20
Vinyl acetate		<5	<5	<5	<5	<5	<5	<5	<5
Vinyl chloride		<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total		<2	<2	<2	<2	<2	<2	<2	<2
Zinc, total		<8.0	45.2	28.8	10.5	<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-34

Constituents	3/2/2022	8/29/2022	3/23/2023	9/25/2023	3/5/2024	9/30/2024	3/6/2025	9/17/2025
Hexachlorobutadiene			<8					
Hexachlorocyclopentadiene			<8					
Hexachloroethane			<8					
Hexachloropropene			<8					
Indeno(1,2,3-cd)pyrene			<8					
Isobutanol			<1000					
Isodrin			<8					
Isophorone			<8					
Isosafrole			<8					
Kepone			<8					
Lead, total	<4	<4	<4	<4	<4	<4	<4	<1
Mercury, total			<.5					
Methacrylonitrile			<1					
Methapyrilene			<8					
Methoxychlor			<.05					
Methyl iodide	<1	<1	<2	<1	<1	<1	<1	<1
Methyl methacrylate			<1					
Methyl methanesulfonate			<8					
Methyl parathion			<.4					
Methylene chloride	<5	<5	<5	<5	<5	<5	<5	<5
Naphthalene			<8					
Nickel, total	<4.0	9.0	<4.0	10.0	7.6	15.9	<4.0	10.6
Nitrobenzene			<8					
N-nitrosodiethylamine			<8					
N-nitrosodimethylamine			<8					
N-nitrosodi-n-butylamine			<8					
N-nitroso-di-n-propylamine			<8					
N-nitrosodiphenylamine			<8					
N-nitrosomethylethylamine			<8					
N-nitrosopiperidine			<8					
N-nitrosopyrrolidine			<8					
O,o,o-triethyl phosphorothioate			<.4					
O-toluidine			<8					
Parathion			<.4					
P-dimethylaminoazobenzene			<8					
Pentachlorobenzene			<8					
Pentachloronitrobenzene (pcnb)			<8					
Pentachlorophenol			<8					
Phenacetin			<8					
Phenanthrene			<8					
Phenol			<8					
Phorate			<.4					
Pronamide			<8					
Propionitrile			<10					
Pyrene			<8					
Safrole			<8					
Selenium, total	<4	<4	<4	<4	<4	<4	<4	<2
Silver, total	<4	<4	<4	<4	<4	<4	<4	<5
Solids, total suspended								
Styrene	<1	<1	<1	<1	<1	<1	<1	<1
Sulfide, total			<.1					
Tetrachloroethylene	<1	<1	<1	<1	<1	<1	<1	<1
Thallium, total	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<.5
Thionazin			<.4					
Tin, total			<20					
Toluene	<1	<1	<1	<1	<1	<1	<1	<1
Toxaphene			<.2					
Trans-1,2-dichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,3-dichloropropene	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,4-dichloro-2-butene	<5	<5	<5	<5	<5	<5	<5	<5
Trichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	<1	<1	<1	<1	<1	<1	<1	<1
Vanadium, total	<20	<20	<20	<20	<20	<20	<20	<2
Vinyl acetate	<5	<5	<5	<5	<5	<5	<5	<5
Vinyl chloride	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	<2	<2	<2	<2	<2	<2	<2	<2
Zinc, total	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	5.1

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

Table 9

Analytical Data Summary for MW-35

Constituents	Units	3/20/2014	9/15/2014	3/6/2015	8/24/2015	3/1/2016	9/9/2016	3/22/2017	8/24/2017	2/26/2018
(3,4)-methylphenol	ug/L									<8
1,1,1,2-tetrachloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-trichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	ug/L	<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-dichloroethane	ug/L	3.1	<1.0	<1.0	<1.0	2.2	1.9	1.7	<1.0	1.9
1,1-dichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloropropene	ug/L									<1
1,2,3-trichloropropane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4,5-tetrachlorobenzene	ug/L									<8
1,2,4-trichlorobenzene	ug/L									<1
1,2-dibromo-3-chloropropane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dibromoethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichlorobenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloropropane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dinitrobenzene	ug/L									<8
1,3,5-trinitrobenzene	ug/L									<8
1,3-dichlorobenzene	ug/L									<1
1,3-dichloropropane	ug/L									<1
1,3-dinitrobenzene	ug/L									<8
1,4-dichlorobenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-naphthoquinone	ug/L									<8
1,4-phenylenediamine	ug/L									<8
1-naphthylamine	ug/L									<8
2,2-dichloropropane	ug/L									<1
2,3,4,6-tetrachlorophenol	ug/L									<8
2,4,5-t	ug/L									<5
2,4,5-tp (silvex)	ug/L									<5
2,4,5-trichlorophenol	ug/L									<8
2,4,6-trichlorophenol	ug/L									<8
2,4-d	ug/L									<1
2,4-dichlorophenol	ug/L									<8
2,4-dimethylphenol	ug/L									<8
2,4-dinitrophenol	ug/L									<8
2,4-dinitrotoluene	ug/L									<8
2,6-dichlorophenol	ug/L									<8
2,6-dinitrotoluene	ug/L									<8
2-acetylaminofluorene	ug/L									<8
2-butanone (mek)	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
2-chloronaphthalene	ug/L									<8
2-chlorophenol	ug/L									<8
2-hexanone (mbk)	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
2-methylnaphthalene	ug/L									<8
2-methylphenol	ug/L									<8
2-naphthylamine	ug/L									<8
2-nitroaniline	ug/L									<8
2-nitrophenol	ug/L									<8
3,3'-dichlorobenzidine	ug/L									<8
3,3'-dimethylbenzidine	ug/L									<8
3-methylcholanthrene	ug/L									<8
3-nitroaniline	ug/L									<8
4,4'-ddd	ug/L									<.05
4,4'-dde	ug/L									<.05
4,4'-ddt	ug/L									<.05
4,6-dinitro-2-methylphenol	ug/L									<8
4-aminobiphenyl	ug/L									<8
4-bromophenyl phenyl ether	ug/L									<8
4-chloro-3-methylphenol	ug/L									<8
4-chloroaniline	ug/L									<8
4-chlorophenyl phenyl ether	ug/L									<8
4-methyl-2-pentanone (mibk)	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
4-nitroaniline	ug/L									<8
4-nitrophenol	ug/L									<8
5-nitro-o-toluidine	ug/L									<8
7,12-dimethylbenz(a)anthracene	ug/L									<8
Acenaphthene	ug/L									<8
Acenaphthylene	ug/L									<8
Acetone	ug/L	<10	<10	<10	<10	<10	<10	<10	<10	<10
Acetonitrile	ug/L									<10
Acetophenone	ug/L									<8
Acrolein	ug/L									<10
Acrylonitrile	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
Aldrin	ug/L									<.05
Allyl chloride	ug/L									<1
Alpha-bhc	ug/L									<.05
Anthracene	ug/L									<8

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

Table 9

Analytical Data Summary for MW-35

Constituents	8/29/2018	3/18/2019	9/10/2019	3/25/2020	9/4/2020	3/2/2021	9/2/2021	3/2/2022	8/29/2022
(3,4)-methylphenol									
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	1.5	1.2	1.3	1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-dichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloropropene									
1,2,3-trichloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4,5-tetrachlorobenzene									
1,2,4-trichlorobenzene									
1,2-dibromo-3-chloropropane	<1	<1	<1	<5	<5	<5	<5	<5	<5
1,2-dibromoethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
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
1,2-dinitrobenzene									
1,3,5-trinitrobenzene									
1,3-dichlorobenzene									
1,3-dichloropropane									
1,3-dinitrobenzene									
1,4-dichlorobenzene	<1	<1	<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									
2,4,5-tp (silvex)									
2,4,5-trichlorophenol									
2,4,6-trichlorophenol									
2,4-d									
2,4-dichlorophenol									
2,4-dimethylphenol									
2,4-dinitrophenol									
2,4-dinitrotoluene									
2,6-dichlorophenol									
2,6-dinitrotoluene									
2-acetylaminofluorene									
2-butanone (mek)	<5	<5	<5	<5	<5	<5	<5	<10	<10
2-chloronaphthalene									
2-chlorophenol									
2-hexanone (mbk)	<5	<5	<5	<5	<5	<5	<5	<5	<5
2-methylnaphthalene									
2-methylphenol									
2-naphthylamine									
2-nitroaniline									
2-nitrophenol									
3,3'-dichlorobenzidine									
3,3'-dimethylbenzidine									
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 (mibk)	<5	<5	<5	<5	<5	<5	<5	<5	<5
4-nitroaniline									
4-nitrophenol									
5-nitro-o-toluidine									
7,12-dimethylbenz(a)anthracene									
Acenaphthene									
Acenaphthylene									
Acetone	<10	<10	<10	<10	<10	<10	<10	<10	<10
Acetonitrile									
Acetophenone									
Acrolein									
Acrylonitrile	<5	<5	<5	<5	<5	<5	<5	<5	<5
Aldrin									
Allyl chloride									
Alpha-bhc									
Anthracene									

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

Table 9

Analytical Data Summary for MW-35

Constituents	3/23/2023	9/25/2023	3/5/2024	9/30/2024	3/6/2025	9/17/2025
(3,4)-methylphenol	<8					
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	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-dichloroethylene	<1	<1	<1	<1	<1	<1
1,1-dichloropropene	<1					
1,2,3-trichloropropane	<1	<1	<1	<1	<1	<1
1,2,4,5-tetrachlorobenzene	<8					
1,2,4-trichlorobenzene	<1					
1,2-dibromo-3-chloropropane	<1	<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
1,2-dinitrobenzene	<8					
1,3,5-trinitrobenzene	<8					
1,3-dichlorobenzene	<1					
1,3-dichloropropane	<1					
1,3-dinitrobenzene	<8					
1,4-dichlorobenzene	<1	<1	<1	<1	<1	<1
1,4-naphthoquinone	<8					
1,4-phenylenediamine	<8					
1-naphthylamine	<8					
2,2-dichloropropane	<1					
2,3,4,6-tetrachlorophenol	<8					
2,4,5-t	<.5					
2,4,5-tp (silvex)	<.5					
2,4,5-trichlorophenol	<8					
2,4,6-trichlorophenol	<8					
2,4-d	<2					
2,4-dichlorophenol	<8					
2,4-dimethylphenol	<8					
2,4-dinitrophenol	<8					
2,4-dinitrotoluene	<8					
2,6-dichlorophenol	<8					
2,6-dinitrotoluene	<8					
2-acetylaminofluorene	<8					
2-butanone (mek)	<5	<10	<10	<10	<10	<10
2-chloronaphthalene	<8					
2-chlorophenol	<8					
2-hexanone (mbk)	<5	<5	<5	<5	<5	<5
2-methylnaphthalene	<8					
2-methylphenol	<8					
2-naphthylamine	<8					
2-nitroaniline	<8					
2-nitrophenol	<8					
3,3'-dichlorobenzidine	<8					
3,3'-dimethylbenzidine	<8					
3-methylcholanthrene	<8					
3-nitroaniline	<8					
4,4'-ddd	<.05					
4,4'-dde	<.05					
4,4'-ddt	<.05					
4,6-dinitro-2-methylphenol	<8					
4-aminobiphenyl	<8					
4-bromophenyl phenyl ether	<8					
4-chloro-3-methylphenol	<8					
4-chloroaniline	<8					
4-chlorophenyl phenyl ether	<8					
4-methyl-2-pentanone (mibk)	<5	<5	<5	<5	<5	<5
4-nitroaniline	<8					
4-nitrophenol	<8					
5-nitro-o-toluidine	<8					
7,12-dimethylbenz(a)anthracene	<8					
Acenaphthene	<8					
Acenaphthylene	<8					
Acetone	<10	<10	<10	<10	<10	<10
Acetonitrile	<10					
Acetophenone	<8					
Acrolein	<10					
Acrylonitrile	<5	<5	<5	<5	<5	<5
Aldrin	<.05					
Allyl chloride	<1					
Alpha-bhc	<.05					
Anthracene	<8					

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

Table 9

Analytical Data Summary for MW-35

Constituents	Units	3/20/2014	9/15/2014	3/6/2015	8/24/2015	3/1/2016	9/9/2016	3/22/2017	8/24/2017	2/26/2018
Antimony, total	ug/L	<2	<2	<2	<2	<2	<2	<2	<2	<2
Arochlor 1016	ug/L									<.1
Arochlor 1221	ug/L									<.2
Arochlor 1232	ug/L									<.2
Arochlor 1242	ug/L									<.2
Arochlor 1248	ug/L									<.2
Arochlor 1254	ug/L									<.1
Arochlor 1260	ug/L									<.1
Arsenic, total	ug/L	<4	<4	<4	<4	<4	<4	<4	<4	<4
Azobenzene	ug/L									<.8
Barium, total	ug/L	772	668	740	695	676	664	629	667	637
Benzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Benzo(a)anthracene	ug/L									<.8
Benzo(a)pyrene	ug/L									<.8
Benzo(b)fluoranthene	ug/L									<.8
Benzo(g,h,i)perylene	ug/L									<.8
Benzo(k)fluoranthene	ug/L									<.8
Benzyl alcohol	ug/L									<.8
Beryllium, total	ug/L	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Beta-bhc	ug/L									<.05
Bis (2-chloroethoxy) methane	ug/L									<.8
Bis(2-chloroethyl) ether	ug/L									<.8
Bis(2-chloroisopropyl) ether	ug/L									<.8
Bis(2-ethylhexyl) phthalate	ug/L	<10	20	<10	13	<10	<10	<10	15	<.6
Bromochloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromodichloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromoform	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromomethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Butyl benzyl phthalate	ug/L									<.8
Cadmium, total	ug/L	<.8	<.8	<.8	<.8	<.8	<.8	<.8	<.8	<.8
Carbon disulfide	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon tetrachloride	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlordane	ug/L									<.1
Chlorobenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzilate	ug/L									<.8
Chloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroprene	ug/L									<1
Chromium, total	ug/L	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0
Chrysene	ug/L									<.8
Cis-1,2-dichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cis-1,3-dichloropropene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cobalt, total	ug/L	<4.0	<.8	<.8	<.8	<.8	<.8	<.8	<.8	<.8
Copper, total	ug/L	<4	<4	<4	<4	<4	<4	<4	<4	<4
Cyanide, total	mg/L									.012
Delta-bhc	ug/L									<.05
Diallate	ug/L									<.8
Dibenzo(a,h)anthracene	ug/L									<.8
Dibenzofuran	ug/L									<.8
Dibromochloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromomethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dichlorodifluoromethane	ug/L	3.5	2.3	7.0	<1.0	5.9	4.3	3.4	3.1	2.1
Dieldrin	ug/L									<.05
Diethyl phthalate	ug/L									<.8
Dimethoate	ug/L									<.4
Dimethylphthalate	ug/L									<.8
Di-n-butyl phthalate	ug/L									<.8
Di-n-octyl phthalate	ug/L									<.8
Dinoseb	ug/L									<.5
Diphenylamine	ug/L									<.8
Disulfoton	ug/L									<.4
Endosulfan i	ug/L									<.05
Endosulfan ii	ug/L									<.05
Endosulfan sulfate	ug/L									<.05
Endrin	ug/L									<.05
Endrin aldehyde	ug/L									<.05
Ethyl methacrylate	ug/L									<10
Ethyl methanesulfonate	ug/L									<.8
Ethylbenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Famphur	ug/L									<.4
Fluoranthene	ug/L									<.8
Fluorene	ug/L									<.8
Gamma-bhc (lindane)	ug/L									<.05
Heptachlor	ug/L									<.05
Heptachlor epoxide	ug/L									<.05
Hexachlorobenzene	ug/L									<.05

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

Table 9

Analytical Data Summary for MW-35

Constituents	8/29/2018	3/18/2019	9/10/2019	3/25/2020	9/4/2020	3/2/2021	9/2/2021	3/2/2022	8/29/2022
Antimony, total	<2	<2	<2	<2	<2	<2	<2	<2	<2
Arochlor 1016									
Arochlor 1221									
Arochlor 1232									
Arochlor 1242									
Arochlor 1248									
Arochlor 1254									
Arochlor 1260									
Arsenic, total	<4	<4	<4	<4	<4	<4	<4	<4	<4
Azobenzene									
Barium, total	580	1230	387	543	268	481	248	483	372
Benzene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Benzo(a)anthracene									
Benzo(a)pyrene									
Benzo(b)fluoranthene									
Benzo(g,h,i)perylene									
Benzo(k)fluoranthene									
Benzyl alcohol									
Beryllium, total	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Beta-bhc									
Bis (2-chloroethoxy) methane									
Bis(2-chloroethyl) ether									
Bis(2-chloroisopropyl) ether									
Bis(2-ethylhexyl) phthalate	7	<6	<6	<6	<6	<6		<6	
Bromochloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromodichloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromoform	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromomethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Butyl benzyl phthalate									
Cadmium, total	<.8	<.8	<.8	<.8	<.8	<.8	<.8	<.8	<.8
Carbon disulfide	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon tetrachloride	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlordane									
Chlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzilate									
Chloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroprene									
Chromium, total	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0
Chrysene									
Cis-1,2-dichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cis-1,3-dichloropropene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cobalt, total	<.8	<.8	4.4	<.8	.4	1.5	8.1	1.5	<.4
Copper, total	<4	<4	<4	<4	<4	<4	5	<4	<4
Cyanide, total	.008	<.005	<.005	<.005	<.005	<.005		<.005	
Delta-bhc									
Diallate									
Dibenzo(a,h)anthracene									
Dibenzofuran									
Dibromochloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromomethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dichlorodifluoromethane	1.8	1.1	1.5	2.1	<1.0	<1.0	<1.0	1.5	1.5
Dieldrin									
Diethyl phthalate									
Dimethoate									
Dimethylphthalate									
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	<1	<1
Famphur									
Fluoranthene									
Fluorene									
Gamma-bhc (lindane)									
Heptachlor									
Heptachlor epoxide									
Hexachlorobenzene									

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

Table 9

Analytical Data Summary for MW-35

Constituents	3/23/2023	9/25/2023	3/5/2024	9/30/2024	3/6/2025	9/17/2025
Antimony, total	<2	<2	<2	<2	<2	<1
Arochlor 1016	<.1					
Arochlor 1221	<.2					
Arochlor 1232	<.2					
Arochlor 1242	<.2					
Arochlor 1248	<.2					
Arochlor 1254	<.1					
Arochlor 1260	<.1					
Arsenic, total	<4	<4	<4	<4	<4	<2
Azobenzene	<8					
Barium, total	451	378	460	448	435	454
Benzene	<1	<1	<1	<1	<1	<1
Benzo(a)anthracene	<8					
Benzo(a)pyrene	<8					
Benzo(b)fluoranthene	<8					
Benzo(g,h,i)perylene	<8					
Benzo(k)fluoranthene	<8					
Benzyl alcohol	<8					
Beryllium, total	<4.0	<4.0	<4.0	<4.0	<4.0	<5
Beta-bhc	<.05					
Bis (2-chloroethoxy) methane	<8					
Bis(2-chloroethyl) ether	<8					
Bis(2-chloroisopropyl) ether	<8					
Bis(2-ethylhexyl) phthalate	<6					
Bromochloromethane	<1	<1	<1	<1	<1	<1
Bromodichloromethane	<1	<1	<1	<1	<1	<1
Bromoform	<1	<1	<1	<1	<1	<1
Bromomethane	<1	<1	<1	<1	<1	<1
Butyl benzyl phthalate	<8					
Cadmium, total	<.8	<.8	<.8	<.8	<.8	<.2
Carbon disulfide	<1	<1	<1	<1	<1	<1
Carbon tetrachloride	<1	<1	<1	<1	<1	<1
Chlordane	<.1					
Chlorobenzene	<1	<1	<1	<1	<1	<1
Chlorobenzilate	<8					
Chloroethane	<1	<1	<1	<1	<1	<1
Chloroform	<1	<1	<1	<1	<1	<1
Chloromethane	<1	<1	<1	<1	<1	<1
Chloroprene	<1					
Chromium, total	<8.0	<8.0	<8.0	<8.0	<8.0	1.1
Chrysene	<8					
Cis-1,2-dichloroethylene	<1	<1	<1	<1	<1	<1
Cis-1,3-dichloropropene	<1	<1	<1	<1	<1	<1
Cobalt, total	<.4	<.4	<.4	<.4	<.4	<.5
Copper, total	<4	<4	<4	<4	<4	<5
Cyanide, total	<.005					
Delta-bhc	<.05					
Diallate	<8					
Dibenzo(a,h)anthracene	<8					
Dibenzofuran	<8					
Dibromochloromethane	<1	<1	<1	<1	<1	<1
Dibromomethane	<1	<1	<1	<1	<1	<1
Dichlorodifluoromethane	<1.0	<1.0	1.2	1.2	<1.0	1.8
Dieldrin	<.05					
Diethyl phthalate	<8					
Dimethoate	<.4					
Dimethylphthalate	<8					
Di-n-butyl phthalate	<8					
Di-n-octyl phthalate	<8					
Dinoseb	<.5					
Diphenylamine	<8					
Disulfoton	<.4					
Endosulfan i	<.05					
Endosulfan ii	<.05					
Endosulfan sulfate	<.05					
Endrin	<.05					
Endrin aldehyde	<.05					
Ethyl methacrylate	<10					
Ethyl methanesulfonate	<8					
Ethylbenzene	<1	<1	<1	<1	<1	<1
Famphur	<.4					
Fluoranthene	<8					
Fluorene	<8					
Gamma-bhc (lindane)	<.05					
Heptachlor	<.05					
Heptachlor epoxide	<.05					
Hexachlorobenzene	<.05					

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

Table 9

Analytical Data Summary for MW-35

Constituents	Units	3/20/2014	9/15/2014	3/6/2015	8/24/2015	3/1/2016	9/9/2016	3/22/2017	8/24/2017	2/26/2018
Hexachlorobutadiene	ug/L									<8
Hexachlorocyclopentadiene	ug/L									<8
Hexachloroethane	ug/L									<8
Hexachloropropene	ug/L									<8
Indeno(1,2,3-cd)pyrene	ug/L									<8
Isobutanol	ug/L									<1000
Isodrin	ug/L									<8
Isophorone	ug/L									<8
Isosafrole	ug/L									<8
Kepone	ug/L									<8
Lead, total	ug/L	<4	<4	<4	<4	<4	<4	<4	<4	<4
Mercury, total	ug/L									<.5
Methacrylonitrile	ug/L									<1
Methapyrilene	ug/L									<8
Methoxychlor	ug/L									<.05
Methyl iodide	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methyl methacrylate	ug/L									<1
Methyl methanesulfonate	ug/L									<8
Methyl parathion	ug/L									<4
Methylene chloride	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
Naphthalene	ug/L									<8
Nickel, total	ug/L	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Nitrobenzene	ug/L									<8
N-nitrosodiethylamine	ug/L									<8
N-nitrosodimethylamine	ug/L									<8
N-nitrosodi-n-butylamine	ug/L									<8
N-nitroso-di-n-propylamine	ug/L									<8
N-nitrosodiphenylamine	ug/L									<8
N-nitrosomethylethylamine	ug/L									<8
N-nitrosopiperidine	ug/L									<8
N-nitrosopyrrolidine	ug/L									<8
O,o,o-triethyl phosphorothioate	ug/L									<4
O-toluidine	ug/L									<8
Parathion	ug/L									<4
P-dimethylaminoazobenzene	ug/L									<8
Pentachlorobenzene	ug/L									<8
Pentachloronitrobenzene (pcnb)	ug/L									<8
Pentachlorophenol	ug/L									<8
Phenacetin	ug/L									<8
Phenanthrene	ug/L									<8
Phenol	ug/L									<8
Phorate	ug/L									<4
Pronamide	ug/L									<8
Propionitrile	ug/L									<10
Pyrene	ug/L									<8
Safrole	ug/L									<8
Selenium, total	ug/L	<4	<4	<4	<4	<4	<4	<4	<4	<4
Silver, total	ug/L	<4	<4	<4	<4	<4	<4	<4	<4	<4
Solids, total suspended	mg/L		113	10						
Styrene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Sulfide, total	mg/L									<1
Tetrachloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Thallium, total	ug/L	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Thionazin	ug/L									<4
Tin, total	ug/L									<20
Toluene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toxaphene	ug/L									<2
Trans-1,2-dichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,3-dichloropropene	ug/L	<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
Trichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vanadium, total	ug/L	<20	<20	<20	<20	<20	<20	<20	<20	<20
Vinyl acetate	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
Vinyl chloride	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	ug/L	<2	<2	<2	<2	<2	<2	<2	<2	<2
Zinc, total	ug/L	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0

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

Table 9

Analytical Data Summary for MW-35

Constituents	8/29/2018	3/18/2019	9/10/2019	3/25/2020	9/4/2020	3/2/2021	9/2/2021	3/2/2022	8/29/2022
Hexachlorobutadiene									
Hexachlorocyclopentadiene									
Hexachloroethane									
Hexachloropropene									
Indeno(1,2,3-cd)pyrene									
Isobutanol									
Isodrin									
Isophorone									
Isosafrole									
Kepone									
Lead, total	<4	<4	<4	<4	<4	<4	<4	<4	<4
Mercury, total									
Methacrylonitrile									
Methapyrilene									
Methoxychlor									
Methyl iodide	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methyl methacrylate									
Methyl methanesulfonate									
Methyl parathion									
Methylene chloride	<5	<5	<5	<5	<5	<5	<5	<5	<5
Naphthalene									
Nickel, total	<4.0	<4.0	6.7	<4.0	<4.0	<4.0	4.4	<4.0	<4.0
Nitrobenzene									
N-nitrosodiethylamine									
N-nitrosodimethylamine									
N-nitrosodi-n-butylamine									
N-nitroso-di-n-propylamine									
N-nitrosodiphenylamine									
N-nitrosomethylethylamine									
N-nitrosopiperidine									
N-nitrosopyrrolidine									
O,o,o-triethyl phosphorothioate									
O-toluidine									
Parathion									
P-dimethylaminoazobenzene									
Pentachlorobenzene									
Pentachloronitrobenzene (pcnb)									
Pentachlorophenol									
Phenacetin									
Phenanthrene									
Phenol									
Phorate									
Pronamide									
Propionitrile									
Pyrene									
Safrole									
Selenium, total	<4	<4	<4	<4	<4	<4	<4	<4	<4
Silver, total	<4	<4	<4	<4	<4	<4	<4	<4	<4
Solids, total suspended									
Styrene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Sulfide, total									
Tetrachloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Thallium, total	<4.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Thionazin									
Tin, total									
Toluene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toxaphene									
Trans-1,2-dichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,3-dichloropropene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,4-dichloro-2-butene	<5	<5	<5	<5	<5	<5	<5	<5	<5
Trichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vanadium, total	<20	<20	<20	<20	<20	<20	<20	<20	<20
Vinyl acetate	<5	<5	<5	<5	<5	<5	<5	<5	<5
Vinyl chloride	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	<2	<2	<2	<2	<2	<2	<2	<2	<2
Zinc, total	68.4	46.7	9.0	<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-35

Constituents	3/23/2023	9/25/2023	3/5/2024	9/30/2024	3/6/2025	9/17/2025
Hexachlorobutadiene	<8					
Hexachlorocyclopentadiene	<8					
Hexachloroethane	<8					
Hexachloropropene	<8					
Indeno(1,2,3-cd)pyrene	<8					
Isobutanol	<1000					
Isodrin	<8					
Isophorone	<8					
Isosafrole	<8					
Kepone	<8					
Lead, total	<4	<4	<4	<4	<4	<1
Mercury, total	<.5					
Methacrylonitrile	<1					
Methapyrilene	<8					
Methoxychlor	<.05					
Methyl iodide	<2	<1	<1	<1	<1	<1
Methyl methacrylate	<1					
Methyl methanesulfonate	<8					
Methyl parathion	<.4					
Methylene chloride	<5	<5	<5	<5	<5	<5
Naphthalene	<8					
Nickel, total	<4.0	<4.0	<4.0	<4.0	<4.0	<5.0
Nitrobenzene	<8					
N-nitrosodiethylamine	<8					
N-nitrosodimethylamine	<8					
N-nitrosodi-n-butylamine	<8					
N-nitroso-di-n-propylamine	<8					
N-nitrosodiphenylamine	<8					
N-nitrosomethylethylamine	<8					
N-nitrosopiperidine	<8					
N-nitrosopyrrolidine	<8					
O,o,o-triethyl phosphorothioate	<.4					
O-toluidine	<8					
Parathion	<.4					
P-dimethylaminoazobenzene	<8					
Pentachlorobenzene	<8					
Pentachloronitrobenzene (pcnb)	<8					
Pentachlorophenol	<8					
Phenacetin	<8					
Phenanthrene	<8					
Phenol	<8					
Phorate	<.4					
Pronamide	<8					
Propionitrile	<10					
Pyrene	<8					
Safrole	<8					
Selenium, total	<4	<4	<4	<4	<4	<2
Silver, total	<4	<4	<4	<4	<4	<5
Solids, total suspended						
Styrene	<1	<1	<1	<1	<1	<1
Sulfide, total	<.1					
Tetrachloroethylene	<1	<1	<1	<1	<1	<1
Thallium, total	<2.0	<2.0	<2.0	<2.0	<2.0	<.5
Thionazin	<.4					
Tin, total	<20					
Toluene	<1	<1	<1	<1	<1	<1
Toxaphene	<.2					
Trans-1,2-dichloroethylene	<1	<1	<1	<1	<1	<1
Trans-1,3-dichloropropene	<1	<1	<1	<1	<1	<1
Trans-1,4-dichloro-2-butene	<5	<5	<5	<5	<5	<5
Trichloroethylene	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	<1	<1	<1	<1	<1	<1
Vanadium, total	<20	<20	<20	<20	<20	<2
Vinyl acetate	<5	<5	<5	<5	<5	<5
Vinyl chloride	<1	<1	<1	<1	<1	<1
Xylenes, total	<2	<2	<2	<2	<2	<2
Zinc, total	<20.0	<20.0	<20.0	<20.0	<20.0	<5.0

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

Table 9

Analytical Data Summary for MW-36

Constituents	Units	3/20/2014	9/15/2014	1/14/2015	3/6/2015	8/24/2015	3/1/2016	9/9/2016	1/26/2017	3/22/2017
(3,4)-methylphenol	ug/L									<8
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-dichloroethylene	ug/L	<1	<1		<1	<1	<1	<1		<1
1,1-dichloropropene	ug/L									<1
1,2,3-trichloropropane	ug/L	<1	<1		<1	<1	<1	<1		<1
1,2,4,5-tetrachlorobenzene	ug/L									<8
1,2,4-trichlorobenzene	ug/L									<1
1,2-dibromo-3-chloropropane	ug/L	<1	<1		<1	<1	<1	<1		<1
1,2-dibromoethane	ug/L	<1	<1		<1	<1	<1	<1		<1
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
1,2-dinitrobenzene	ug/L									<8
1,3,5-trinitrobenzene	ug/L									<8
1,3-dichlorobenzene	ug/L									<1
1,3-dichloropropane	ug/L									<1
1,3-dinitrobenzene	ug/L									<8
1,4-dichlorobenzene	ug/L	<1	<1		<1	<1	<1	<1		<1
1,4-naphthoquinone	ug/L									<8
1,4-phenylenediamine	ug/L									<8
1-naphthylamine	ug/L									<8
2,2-dichloropropane	ug/L									<1
2,3,4,6-tetrachlorophenol	ug/L									<8
2,4,5-t	ug/L									<5
2,4,5-tp (silvex)	ug/L									<5
2,4,5-trichlorophenol	ug/L									<8
2,4,6-trichlorophenol	ug/L									<8
2,4-d	ug/L									<1
2,4-dichlorophenol	ug/L									<8
2,4-dimethylphenol	ug/L									<8
2,4-dinitrophenol	ug/L									<8
2,4-dinitrotoluene	ug/L									<8
2,6-dichlorophenol	ug/L									<8
2,6-dinitrotoluene	ug/L									<8
2-acetylaminofluorene	ug/L									<8
2-butanone (mek)	ug/L	<5	<5		<5	<5	<5	<5		<5
2-chloronaphthalene	ug/L									<8
2-chlorophenol	ug/L									<8
2-hexanone (mbk)	ug/L	<5	<5		<5	<5	<5	<5		<5
2-methylnaphthalene	ug/L									<8
2-methylphenol	ug/L									<8
2-naphthylamine	ug/L									<8
2-nitroaniline	ug/L									<8
2-nitrophenol	ug/L									<8
3,3'-dichlorobenzidine	ug/L									<8
3,3'-dimethylbenzidine	ug/L									<8
3-methylcholanthrene	ug/L									<8
3-nitroaniline	ug/L									<8
4,4'-ddd	ug/L									<05
4,4'-dde	ug/L									<05
4,4'-ddt	ug/L									<05
4,6-dinitro-2-methylphenol	ug/L									<8
4-aminobiphenyl	ug/L									<8
4-bromophenyl phenyl ether	ug/L									<8
4-chloro-3-methylphenol	ug/L									<8
4-chloroaniline	ug/L									<8
4-chlorophenyl phenyl ether	ug/L									<8
4-methyl-2-pentanone (mibk)	ug/L	<5	<5		<5	<5	<5	<5		<5
4-nitroaniline	ug/L									<8
4-nitrophenol	ug/L									<8
5-nitro-o-toluidine	ug/L									<8
7,12-dimethylbenz(a)anthracene	ug/L									<8
Acenaphthene	ug/L									<8
Acenaphthylene	ug/L									<8
Acetone	ug/L	<10	<10		<10	<10	<10	<10		<10
Acetonitrile	ug/L									<10
Acetophenone	ug/L									<8
Acrolein	ug/L									<10
Acrylonitrile	ug/L	<5	<5		<5	<5	<5	<5		<5
Aldrin	ug/L									<05
Allyl chloride	ug/L									<1
Alpha-bhc	ug/L									<05
Anthracene	ug/L									<8

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

Table 9

Analytical Data Summary for MW-36

Constituents	8/24/2017	2/26/2018	8/29/2018	3/18/2019	9/10/2019	3/25/2020	9/4/2020	3/2/2021	9/2/2021
(3,4)-methylphenol		<8							
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-dichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloropropene		<1							
1,2,3-trichloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4,5-tetrachlorobenzene		<8							
1,2,4-trichlorobenzene		<1							
1,2-dibromo-3-chloropropane	<1	<1	<1	<1	<1	<5	<5	<5	<5
1,2-dibromoethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
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
1,2-dinitrobenzene		<8							
1,3,5-trinitrobenzene		<8							
1,3-dichlorobenzene		<1							
1,3-dichloropropane		<1							
1,3-dinitrobenzene		<8							
1,4-dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-naphthoquinone		<8							
1,4-phenylenediamine		<8							
1-naphthylamine		<8							
2,2-dichloropropane		<1							
2,3,4,6-tetrachlorophenol		<8							
2,4,5-t		<5							
2,4,5-tp (silvex)		<5							
2,4,5-trichlorophenol		<8							
2,4,6-trichlorophenol		<8							
2,4-d		<2							
2,4-dichlorophenol		<8							
2,4-dimethylphenol		<8							
2,4-dinitrophenol		<8							
2,4-dinitrotoluene		<8							
2,6-dichlorophenol		<8							
2,6-dinitrotoluene		<8							
2-acetylaminofluorene		<8							
2-butanone (mek)	<5	<5	<5	<5	<5	<5	<5	<5	<5
2-chloronaphthalene		<8							
2-chlorophenol		<8							
2-hexanone (mbk)	<5	<5	<5	<5	<5	<5	<5	<5	<5
2-methylnaphthalene		<8							
2-methylphenol		<8							
2-naphthylamine		<8							
2-nitroaniline		<8							
2-nitrophenol		<8							
3,3'-dichlorobenzidine		<8							
3,3'-dimethylbenzidine		<8							
3-methylcholanthrene		<8							
3-nitroaniline		<8							
4,4'-ddd		<.05							
4,4'-dde		<.05							
4,4'-ddt		<.05							
4,6-dinitro-2-methylphenol		<8							
4-aminobiphenyl		<8							
4-bromophenyl phenyl ether		<8							
4-chloro-3-methylphenol		<8							
4-chloroaniline		<8							
4-chlorophenyl phenyl ether		<8							
4-methyl-2-pentanone (mibk)	<5	<5	<5	<5	<5	<5	<5	<5	<5
4-nitroaniline		<8							
4-nitrophenol		<8							
5-nitro-o-toluidine		<8							
7,12-dimethylbenz(a)anthracene		<8							
Acenaphthene		<8							
Acenaphthylene		<8							
Acetone	<10	<10	<10	<10	<10	<10	<10	<10	<10
Acetonitrile		<10							
Acetophenone		<8							
Acrolein		<10							
Acrylonitrile	<5	<5	<5	<5	<5	<5	<5	<5	<5
Aldrin		<.05							
Allyl chloride		<1							
Alpha-bhc		<.05							
Anthracene		<8							

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

Table 9

Analytical Data Summary for MW-36

Constituents	3/2/2022	8/29/2022	3/23/2023	9/25/2023	3/5/2024	9/30/2024	3/6/2025	9/17/2025
(3,4)-methylphenol			<8					
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-dichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloropropene			<1					
1,2,3-trichloropropane	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4,5-tetrachlorobenzene			<8					
1,2,4-trichlorobenzene			<1					
1,2-dibromo-3-chloropropane	<5	<5	<1	<5	<5	<5	<5	<5
1,2-dibromoethane	<1	<1	<1	<1	<1	<1	<1	<1
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
1,2-dinitrobenzene			<8					
1,3,5-trinitrobenzene			<8					
1,3-dichlorobenzene			<1					
1,3-dichloropropane			<1					
1,3-dinitrobenzene			<8					
1,4-dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1
1,4-naphthoquinone			<8					
1,4-phenylenediamine			<8					
1-naphthylamine			<8					
2,2-dichloropropane			<1					
2,3,4,6-tetrachlorophenol			<8					
2,4,5-t			<.5					
2,4,5-tp (silvex)			<.5					
2,4,5-trichlorophenol			<8					
2,4,6-trichlorophenol			<8					
2,4-d			<2					
2,4-dichlorophenol			<8					
2,4-dimethylphenol			<8					
2,4-dinitrophenol			<8					
2,4-dinitrotoluene			<8					
2,6-dichlorophenol			<8					
2,6-dinitrotoluene			<8					
2-acetylaminofluorene			<8					
2-butanone (mek)	<10	<10	<5	<10	<10	<10	<10	<10
2-chloronaphthalene			<8					
2-chlorophenol			<8					
2-hexanone (mbk)	<5	<5	<5	<5	<5	<5	<5	<5
2-methylnaphthalene			<8					
2-methylphenol			<8					
2-naphthylamine			<8					
2-nitroaniline			<8					
2-nitrophenol			<8					
3,3'-dichlorobenzidine			<8					
3,3'-dimethylbenzidine			<8					
3-methylcholanthrene			<8					
3-nitroaniline			<8					
4,4'-ddd			<.05					
4,4'-dde			<.05					
4,4'-ddt			<.05					
4,6-dinitro-2-methylphenol			<8					
4-aminobiphenyl			<8					
4-bromophenyl phenyl ether			<8					
4-chloro-3-methylphenol			<8					
4-chloroaniline			<8					
4-chlorophenyl phenyl ether			<8					
4-methyl-2-pentanone (mibk)	<5	<5	<5	<5	<5	<5	<5	<5
4-nitroaniline			<8					
4-nitrophenol			<8					
5-nitro-o-toluidine			<8					
7,12-dimethylbenz(a)anthracene			<8					
Acenaphthene			<8					
Acenaphthylene			<8					
Acetone	<10	<10	<10	<10	<10	<10	<10	<10
Acetonitrile			<10					
Acetophenone			<8					
Acrolein			<10					
Acrylonitrile	<5	<5	<5	<5	<5	<5	<5	<5
Aldrin			<.05					
Allyl chloride			<1					
Alpha-bhc			<.05					
Anthracene			<8					

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

Table 9

Analytical Data Summary for MW-36

Constituents	Units	3/20/2014	9/15/2014	1/14/2015	3/6/2015	8/24/2015	3/1/2016	9/9/2016	1/26/2017	3/22/2017
Antimony, total	ug/L	<2	<2		<2	<2	<2	<2		<2
Arochlor 1016	ug/L									<.1
Arochlor 1221	ug/L									<.2
Arochlor 1232	ug/L									<.2
Arochlor 1242	ug/L									<.2
Arochlor 1248	ug/L									<.2
Arochlor 1254	ug/L									<.1
Arochlor 1260	ug/L									<.1
Arsenic, total	ug/L	<4	<4		<4	<4	<4	<4		<4
Azobenzene	ug/L									<8
Barium, total	ug/L	293	302		344	322	347	345	337	327
Benzene	ug/L	<1	<1		<1	<1	<1	<1		<1
Benzo(a)anthracene	ug/L									<8
Benzo(a)pyrene	ug/L									<8
Benzo(b)fluoranthene	ug/L									<8
Benzo(g,h,i)perylene	ug/L									<8
Benzo(k)fluoranthene	ug/L									<8
Benzyl alcohol	ug/L									<8
Beryllium, total	ug/L	<4.0	<4.0		<4.0	<4.0	<4.0	<4.0		<4.0
Beta-bhc	ug/L									<.05
Bis (2-chloroethoxy) methane	ug/L									<8
Bis(2-chloroethyl) ether	ug/L									<8
Bis(2-chloroisopropyl) ether	ug/L									<8
Bis(2-ethylhexyl) phthalate	ug/L									<8
Bromochloromethane	ug/L	<1	<1		<1	<1	<1	<1		<1
Bromodichloromethane	ug/L	<1	<1		<1	<1	<1	<1		<1
Bromoform	ug/L	<1	<1		<1	<1	<1	<1		<1
Bromomethane	ug/L	<1	<1		<1	<1	<1	<1		<1
Butyl benzyl phthalate	ug/L									<8
Cadmium, total	ug/L	<.8	5.9	<.8	<.8	<.8	<.8	<.8		.9
Carbon disulfide	ug/L	<1	<1		<1	<1	<1	<1		<1
Carbon tetrachloride	ug/L	<1	<1		<1	<1	<1	<1		<1
Chlordane	ug/L									<.1
Chlorobenzene	ug/L	<1	<1		<1	<1	<1	<1		<1
Chlorobenzilate	ug/L									<8
Chloroethane	ug/L	<1	<1		<1	<1	<1	<1		<1
Chloroform	ug/L	<1	<1		<1	<1	<1	<1		<1
Chloromethane	ug/L	<1	<1		<1	<1	<1	<1		<1
Chloroprene	ug/L									<1
Chromium, total	ug/L	<8	<8		<8	<8	<8	<8		<8
Chrysene	ug/L									<8
Cis-1,2-dichloroethylene	ug/L	<1	<1		<1	<1	<1	<1		<1
Cis-1,3-dichloropropene	ug/L	<1	<1		<1	<1	<1	<1		<1
Cobalt, total	ug/L	<4.0	<.8		<.8	<.8	<.8	<.8		<.8
Copper, total	ug/L	<4	<4		<4	<4	<4	<4		<4
Cyanide, total	mg/L									<.005
Delta-bhc	ug/L									<.05
Diallate	ug/L									<8
Dibenzo(a,h)anthracene	ug/L									<8
Dibenzofuran	ug/L									<8
Dibromochloromethane	ug/L	<1	<1		<1	<1	<1	<1		<1
Dibromomethane	ug/L	<1	<1		<1	<1	<1	<1		<1
Dichlorodifluoromethane	ug/L									<1
Dieldrin	ug/L									<.05
Diethyl phthalate	ug/L									<8
Dimethoate	ug/L									<.4
Dimethylphthalate	ug/L									<8
Di-n-butyl phthalate	ug/L									<8
Di-n-octyl phthalate	ug/L									<8
Dinoseb	ug/L									<.5
Diphenylamine	ug/L									<8
Disulfoton	ug/L									<.4
Endosulfan i	ug/L									<.05
Endosulfan ii	ug/L									<.05
Endosulfan sulfate	ug/L									<.05
Endrin	ug/L									<.05
Endrin aldehyde	ug/L									<.05
Ethyl methacrylate	ug/L									<10
Ethyl methanesulfonate	ug/L									<8
Ethylbenzene	ug/L	<1	<1		<1	<1	<1	<1		<1
Famphur	ug/L									<.4
Fluoranthene	ug/L									<8
Fluorene	ug/L									<8
Gamma-bhc (lindane)	ug/L									<.05
Heptachlor	ug/L									<.05
Heptachlor epoxide	ug/L									<.05
Hexachlorobenzene	ug/L									<.05

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

Table 9

Analytical Data Summary for MW-36

Constituents	8/24/2017	2/26/2018	8/29/2018	3/18/2019	9/10/2019	3/25/2020	9/4/2020	3/2/2021	9/2/2021
Antimony, total	<2	<2	<2	<2	<2	<2	<2	<2	<2
Arochlor 1016		<.1							
Arochlor 1221		<.2							
Arochlor 1232		<.2							
Arochlor 1242		<.2							
Arochlor 1248		<.2							
Arochlor 1254		<.1							
Arochlor 1260		<.1							
Arsenic, total	<4	<4	<4	<4	<4	<4	<4	<4	<4
Azobenzene		<8							
Barium, total	357	341	341	348	336	346	353	331	336
Benzene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Benzo(a)anthracene		<8							
Benzo(a)pyrene		<8							
Benzo(b)fluoranthene		<8							
Benzo(g,h,i)perylene		<8							
Benzo(k)fluoranthene		<8							
Benzyl alcohol		<8							
Beryllium, total	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Beta-bhc		<.05							
Bis (2-chloroethoxy) methane		<8							
Bis(2-chloroethyl) ether		<8							
Bis(2-chloroisopropyl) ether		<8							
Bis(2-ethylhexyl) phthalate		<6							
Bromochloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromodichloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromoform	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromomethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Butyl benzyl phthalate		<8							
Cadmium, total	<.8	<.8	<.8	<.8	<.8	<.8	<.8	<.8	<.8
Carbon disulfide	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon tetrachloride	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlordane		<.1							
Chlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzilate		<8							
Chloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroprene		<1							
Chromium, total	<8	<8	<8	<8	<8	<8	<8	<8	<8
Chrysene		<8							
Cis-1,2-dichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cis-1,3-dichloropropene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cobalt, total	<.8	<.8	<.8	<.8	<.8	<.8	<.4	1.5	<.4
Copper, total	<4	<4	<4	<4	<4	<4	<4	<4	<4
Cyanide, total		<.005							
Delta-bhc		<.05							
Diallate		<8							
Dibenzo(a,h)anthracene		<8							
Dibenzofuran		<8							
Dibromochloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromomethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dichlorodifluoromethane		<1							
Dieldrin		<.05							
Diethyl phthalate		<8							
Dimethoate		<.4							
Dimethylphthalate		<8							
Di-n-butyl phthalate		<8							
Di-n-octyl phthalate		<8							
Dinoseb		<.5							
Diphenylamine		<8							
Disulfoton		<.4							
Endosulfan i		<.05							
Endosulfan ii		<.05							
Endosulfan sulfate		<.05							
Endrin		<.05							
Endrin aldehyde		<.05							
Ethyl methacrylate		<10							
Ethyl methanesulfonate		<8							
Ethylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Famphur		<.4							
Fluoranthene		<8							
Fluorene		<8							
Gamma-bhc (lindane)		<.05							
Heptachlor		<.05							
Heptachlor epoxide		<.05							
Hexachlorobenzene		<.05							

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

Table 9

Analytical Data Summary for MW-36

Constituents	3/2/2022	8/29/2022	3/23/2023	9/25/2023	3/5/2024	9/30/2024	3/6/2025	9/17/2025
Antimony, total	<2	<2	<2	<2	<2	<2	<2	<1
Arochlor 1016			<.1					
Arochlor 1221			<.2					
Arochlor 1232			<.2					
Arochlor 1242			<.2					
Arochlor 1248			<.2					
Arochlor 1254			<.1					
Arochlor 1260			<.1					
Arsenic, total	<4	<4	<4	<4	<4	<4	<4	<2
Azobenzene			<8					
Barium, total	309	314	301	289	315	292	300	302
Benzene	<1	<1	<1	<1	<1	<1	<1	<1
Benzo(a)anthracene			<8					
Benzo(a)pyrene			<8					
Benzo(b)fluoranthene			<8					
Benzo(g,h,i)perylene			<8					
Benzo(k)fluoranthene			<8					
Benzyl alcohol			<8					
Beryllium, total	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<5
Beta-bhc			<.05					
Bis (2-chloroethoxy) methane			<8					
Bis(2-chloroethyl) ether			<8					
Bis(2-chloroisopropyl) ether			<8					
Bis(2-ethylhexyl) phthalate			<6					
Bromochloromethane	<1	<1	<1	<1	<1	<1	<1	<1
Bromodichloromethane	<1	<1	<1	<1	<1	<1	<1	<1
Bromoform	<1	<1	<1	<1	<1	<1	<1	<1
Bromomethane	<1	<1	<1	<1	<1	<1	<1	<1
Butyl benzyl phthalate			<8					
Cadmium, total	<.8	<.8	<.8	<.8	<.8	<.8	<.8	<.2
Carbon disulfide	<1	<1	<1	<1	<1	<1	<1	<1
Carbon tetrachloride	<1	<1	<1	<1	<1	<1	<1	<1
Chlordane			<.1					
Chlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzilate			<8					
Chloroethane	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	<1	<1	<1	<1	<1	<1	<1	<1
Chloromethane	<1	<1	<1	<1	<1	<1	<1	<1
Chloroprene			<1					
Chromium, total	<8	<8	<8	<8	<8	<8	<8	3
Chrysene			<8					
Cis-1,2-dichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1
Cis-1,3-dichloropropene	<1	<1	<1	<1	<1	<1	<1	<1
Cobalt, total	<.4	<.4	<.4	<.4	<.4	<.4	<.4	<.5
Copper, total	<4	<4	<4	<4	<4	12	<4	<5
Cyanide, total			<.005					
Delta-bhc			<.05					
Diallate			<8					
Dibenzo(a,h)anthracene			<8					
Dibenzofuran			<8					
Dibromochloromethane	<1	<1	<1	<1	<1	<1	<1	<1
Dibromomethane	<1	<1	<1	<1	<1	<1	<1	<1
Dichlorodifluoromethane			<1					
Dieldrin			<.05					
Diethyl phthalate			<8					
Dimethoate			<.4					
Dimethylphthalate			<8					
Di-n-butyl phthalate			<8					
Di-n-octyl phthalate			<8					
Dinoseb			<.5					
Diphenylamine			<8					
Disulfoton			<.4					
Endosulfan i			<.05					
Endosulfan ii			<.05					
Endosulfan sulfate			<.05					
Endrin			<.05					
Endrin aldehyde			<.05					
Ethyl methacrylate			<10					
Ethyl methanesulfonate			<8					
Ethylbenzene	<1	<1	<1	<1	<1	<1	<1	<1
Famphur			<.4					
Fluoranthene			<8					
Fluorene			<8					
Gamma-bhc (lindane)			<.05					
Heptachlor			<.05					
Heptachlor epoxide			<.05					
Hexachlorobenzene			<.05					

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

Table 9

Analytical Data Summary for MW-36

Constituents	Units	3/20/2014	9/15/2014	1/14/2015	3/6/2015	8/24/2015	3/1/2016	9/9/2016	1/26/2017	3/22/2017
Hexachlorobutadiene	ug/L									<8
Hexachlorocyclopentadiene	ug/L									<8
Hexachloroethane	ug/L									<8
Hexachloropropene	ug/L									<8
Indeno(1,2,3-cd)pyrene	ug/L									<8
Isobutanol	ug/L									<1000
Isodrin	ug/L									<8
Isophorone	ug/L									<8
Isosafrole	ug/L									<8
Kepone	ug/L									<8
Lead, total	ug/L	<4	<4		<4	<4	<4	<4		<4
Mercury, total	ug/L									<.5
Methacrylonitrile	ug/L									<1
Methapyrilene	ug/L									<8
Methoxychlor	ug/L									<.05
Methyl iodide	ug/L	<1	<1		<1	<1	<1	<1		<1
Methyl methacrylate	ug/L									<1
Methyl methanesulfonate	ug/L									<8
Methyl parathion	ug/L									<4
Methylene chloride	ug/L	<5	<5		<5	<5	<5	<5		<5
Naphthalene	ug/L									<8
Nickel, total	ug/L	<4	<4		<4	<4	<4	<4		<4
Nitrobenzene	ug/L									<8
N-nitrosodiethylamine	ug/L									<8
N-nitrosodimethylamine	ug/L									<8
N-nitrosodi-n-butylamine	ug/L									<8
N-nitroso-di-n-propylamine	ug/L									<8
N-nitrosodiphenylamine	ug/L									<8
N-nitrosomethylethylamine	ug/L									<8
N-nitrosopiperidine	ug/L									<8
N-nitrosopyrrolidine	ug/L									<8
O,o,o-triethyl phosphorothioate	ug/L									<4
O-toluidine	ug/L									<8
Parathion	ug/L									<4
P-dimethylaminoazobenzene	ug/L									<8
Pentachlorobenzene	ug/L									<8
Pentachloronitrobenzene (pcnb)	ug/L									<8
Pentachlorophenol	ug/L									<8
Phenacetin	ug/L									<8
Phenanthrene	ug/L									<8
Phenol	ug/L									<8
Phorate	ug/L									<4
Pronamide	ug/L									<8
Propionitrile	ug/L									<10
Pyrene	ug/L									<8
Safrole	ug/L									<8
Selenium, total	ug/L	<4	<4		<4	<4	<4	<4		<4
Silver, total	ug/L	<4	<4		<4	<4	<4	<4		<4
Solids, total suspended	mg/L		18		3					
Styrene	ug/L	<1	<1		<1	<1	<1	<1		<1
Sulfide, total	mg/L									<1
Tetrachloroethylene	ug/L	<1	<1		<1	<1	<1	<1		<1
Thallium, total	ug/L	<4.0	<4.0		<4.0	<4.0	<4.0	<4.0		<4.0
Thionazin	ug/L									<4
Tin, total	ug/L									<20
Toluene	ug/L	<1	<1		<1	<1	<1	<1		<1
Toxaphene	ug/L									<2
Trans-1,2-dichloroethylene	ug/L	<1	<1		<1	<1	<1	<1		<1
Trans-1,3-dichloropropene	ug/L	<1	<1		<1	<1	<1	<1		<1
Trans-1,4-dichloro-2-butene	ug/L	<5	<5		<5	<5	<5	<5		<5
Trichloroethylene	ug/L	<1.0	<1.0		<1.0	<1.0	<1.0	<1.0		<1.0
Trichlorofluoromethane	ug/L	<1	<1		<1	<1	<1	<1		<1
Vanadium, total	ug/L	<20	<20		<20	<20	<20	<20		<20
Vinyl acetate	ug/L	<5	<5		<5	<5	<5	<5		<5
Vinyl chloride	ug/L	<1	<1		<1	<1	<1	<1		<1
Xylenes, total	ug/L	<2	<2		<2	<2	<2	<2		<2
Zinc, total	ug/L	<8.0	12.2		<8.0	9.8	<8.0	<8.0		<8.0

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

Table 9

Analytical Data Summary for MW-36

Constituents	8/24/2017	2/26/2018	8/29/2018	3/18/2019	9/10/2019	3/25/2020	9/4/2020	3/2/2021	9/2/2021
Hexachlorobutadiene		<8							
Hexachlorocyclopentadiene		<8							
Hexachloroethane		<8							
Hexachloropropene		<8							
Indeno(1,2,3-cd)pyrene		<8							
Isobutanol		<1000							
Isodrin		<8							
Isophorone		<8							
Isosafrole		<8							
Kepone		<8							
Lead, total	<4	<4	<4	<4	<4	<4	<4	<4	<4
Mercury, total		<5							
Methacrylonitrile		<1							
Methapyrene		<8							
Methoxychlor		<.05							
Methyl iodide	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methyl methacrylate		<1							
Methyl methanesulfonate		<8							
Methyl parathion		<.4							
Methylene chloride	<5	<5	<5	<5	<5	<5	<5	<5	<5
Naphthalene		<8							
Nickel, total	<4	<4	<4	<4	<4	<4	<4	<4	<4
Nitrobenzene		<8							
N-nitrosodiethylamine		<8							
N-nitrosodimethylamine		<8							
N-nitrosodi-n-butylamine		<8							
N-nitroso-di-n-propylamine		<8							
N-nitrosodiphenylamine		<8							
N-nitrosomethylethylamine		<8							
N-nitrosopiperidine		<8							
N-nitrosopyrrolidine		<8							
O,o,o-triethyl phosphorothioate		<.4							
O-toluidine		<8							
Parathion		<.4							
P-dimethylaminoazobenzene		<8							
Pentachlorobenzene		<8							
Pentachloronitrobenzene (pcnb)		<8							
Pentachlorophenol		<8							
Phenacetin		<8							
Phenanthrene		<8							
Phenol		<8							
Phorate		<.4							
Pronamide		<8							
Propionitrile		<10							
Pyrene		<8							
Safrole		<8							
Selenium, total	<4	<4	<4	<4	<4	<4	<4	<4	<4
Silver, total	<4	<4	<4	<4	<4	<4	<4	<4	<4
Solids, total suspended									
Styrene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Sulfide, total		<1							
Tetrachloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Thallium, total	<4.0	<4.0	<4.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Thionazin		<.4							
Tin, total		<20							
Toluene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toxaphene		<.2							
Trans-1,2-dichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,3-dichloropropene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,4-dichloro-2-butene	<5	<5	<5	<5	<5	<5	<5	<5	<5
Trichloroethylene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Trichlorofluoromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vanadium, total	<20	<20	<20	<20	<20	<20	<20	<20	<20
Vinyl acetate	<5	<5	<5	<5	<5	<5	<5	<5	<5
Vinyl chloride	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	<2	<2	<2	<2	<2	<2	<2	<2	<2
Zinc, total	8.2	<8.0	40.3	<20.0	<8.0	<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-36

Constituents	3/2/2022	8/29/2022	3/23/2023	9/25/2023	3/5/2024	9/30/2024	3/6/2025	9/17/2025
Hexachlorobutadiene			<8					
Hexachlorocyclopentadiene			<8					
Hexachloroethane			<8					
Hexachloropropene			<8					
Indeno(1,2,3-cd)pyrene			<8					
Isobutanol			<1000					
Isodrin			<8					
Isophorone			<8					
Isosafrole			<8					
Kepone			<8					
Lead, total	<4	<4	<4	<4	<4	<4	<4	<1
Mercury, total			<.5					
Methacrylonitrile			<1					
Methapyrene			<8					
Methoxychlor			<.05					
Methyl iodide	<1	<1	<2	<1	<1	<1	<1	<1
Methyl methacrylate			<1					
Methyl methanesulfonate			<8					
Methyl parathion			<.4					
Methylene chloride	<5	<5	<5	<5	<5	<5	<5	<5
Naphthalene			<8					
Nickel, total	<4	<4	<4	<4	<4	<4	<4	<5
Nitrobenzene			<8					
N-nitrosodiethylamine			<8					
N-nitrosodimethylamine			<8					
N-nitrosodi-n-butylamine			<8					
N-nitroso-di-n-propylamine			<8					
N-nitrosodiphenylamine			<8					
N-nitrosomethylethylamine			<8					
N-nitrosopiperidine			<8					
N-nitrosopyrrolidine			<8					
O,o,o-triethyl phosphorothioate			<.4					
O-toluidine			<8					
Parathion			<.4					
P-dimethylaminoazobenzene			<8					
Pentachlorobenzene			<8					
Pentachloronitrobenzene (pcnb)			<8					
Pentachlorophenol			<8					
Phenacetin			<8					
Phenanthrene			<8					
Phenol			<8					
Phorate			<.4					
Pronamide			<8					
Propionitrile			<10					
Pyrene			<8					
Safrole			<8					
Selenium, total	<4	<4	<4	<4	<4	<4	<4	<2
Silver, total	<4	<4	<4	<4	<4	<4	<4	<5
Solids, total suspended								
Styrene	<1	<1	<1	<1	<1	<1	<1	<1
Sulfide, total			<.1					
Tetrachloroethylene	<1	<1	<1	<1	<1	<1	<1	<1
Thallium, total	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5
Thionazin			<.4					
Tin, total			<20					
Toluene	<1	<1	<1	<1	<1	<1	<1	<1
Toxaphene			<.2					
Trans-1,2-dichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,3-dichloropropene	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,4-dichloro-2-butene	<5	<5	<5	<5	<5	<5	<5	<5
Trichloroethylene	<1.0	<1.0	3.5	<1.0	<1.0	<1.0	<1.0	<1.0
Trichlorofluoromethane	<1	<1	<1	<1	<1	<1	<1	<1
Vanadium, total	<20	<20	<20	<20	<20	<20	<20	<2
Vinyl acetate	<5	<5	<5	<5	<5	<5	<5	<5
Vinyl chloride	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	<2	<2	<2	<2	<2	<2	<2	<2
Zinc, total	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<5.0

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

Table 9

Analytical Data Summary for MW-37

Constituents	Units	3/20/2014	9/15/2014	1/14/2015	3/6/2015	6/16/2015	8/24/2015	3/1/2016	9/9/2016	3/22/2017
1,1,1,2-tetrachloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-trichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	ug/L	<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-dichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,3-trichloropropane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dibromo-3-chloropropane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dibromoethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichlorobenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloropropane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-dichlorobenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-butanone (mek)	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
2-hexanone (mbk)	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
4-methyl-2-pentanone (mibk)	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
Acetone	ug/L	<10	<10	<10	<10	<10	<10	<10	<10	<10
Acrylonitrile	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
Antimony, total	ug/L	<2	<2	<2	<2	<2	<2	<2	<2	<2
Arsenic, total	ug/L	<4	<4	<4	<4	<4	<4	<4	<4	<4
Barium, total	ug/L	131.0	95.3	89.2	82.1	85.0	69.1	67.7	77.6	77.4
Benzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Beryllium, total	ug/L	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Bromochloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromodichloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromoform	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromomethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cadmium, total	ug/L	<8	<8	<8	<8	<8	<8	<8	<8	<8
Carbon disulfide	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon tetrachloride	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chromium, total	ug/L	8.8	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0
Cis-1,2-dichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cis-1,3-dichloropropene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cobalt, total	ug/L	4.8	<8	<8	<8	<8	<8	<8	<8	<8
Copper, total	ug/L	5.2	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Dibromochloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromomethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Lead, total	ug/L	<4	<4	<4	<4	<4	<4	<4	<4	<4
Methyl iodide	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene chloride	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
Nickel, total	ug/L	5.8	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Selenium, total	ug/L	11.3	9.3	6.0	6.7	6.3	5.5	4.4	4.7	4.1
Silver, total	ug/L	<4	<4	<4	<4	<4	<4	<4	<4	<4
Solids, total suspended	mg/L		32		36					
Styrene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Thallium, total	ug/L	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Toluene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,2-dichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,3-dichloropropene	ug/L	<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
Trichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vanadium, total	ug/L	<20	<20	<20	<20	<20	<20	<20	<20	<20
Vinyl acetate	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
Vinyl chloride	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	ug/L	<2	<2	<2	<2	<2	<2	<2	<2	<2
Zinc, total	ug/L	15.6	11.2	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0

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

Table 9

Analytical Data Summary for MW-37

Constituents	8/24/2017	2/26/2018	8/29/2018	3/18/2019	9/10/2019	3/25/2020	9/4/2020	3/2/2021	9/2/2021	3/2/2022
1,1,1,2-tetrachloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-trichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-trichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,3-trichloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dibromo-3-chloropropane	<1	<1	<1	<1	<1	<5	<5	<5	<5	<5
1,2-dibromoethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-butanone (mek)	<5	<5	<5	<5	<5	<5	<5	<5	<5	<10
2-hexanone (mbk)	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
4-methyl-2-pentanone (mibk)	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Acetone	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Acrylonitrile	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Antimony, total	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Arsenic, total	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Barium, total	82.3	78.9	59.2	61.3	60.1	69.1	58.6	64.5	61.8	71.0
Benzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Beryllium, total	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Bromochloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromodichloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromoform	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromomethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cadmium, total	<8	<8	<8	<8	<8	<8	<8	<8	<8	<8
Carbon disulfide	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon tetrachloride	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chromium, total	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0
Cis-1,2-dichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cis-1,3-dichloropropene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cobalt, total	<8	<8	<8	<8	<8	<8	<4	1.0	1.8	<4
Copper, total	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Dibromochloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromomethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Lead, total	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Methyl iodide	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene chloride	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Nickel, total	<4.0	<4.0	<8.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Selenium, total	7.1	5.8	11.6	14.6	20.2	17.6	14.7	18.9	17.4	20.0
Silver, total	<4	<4	<8	<4	<4	<4	<4	<4	<4	<4
Solids, total suspended										
Styrene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Thallium, total	<4.0	<4.0	<4.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Toluene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,2-dichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,3-dichloropropene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,4-dichloro-2-butene	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Trichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vanadium, total	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
Vinyl acetate	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Vinyl chloride	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Zinc, total	<8.0	<8.0	28.7	<20.0	<8.0	<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-37

Constituents	8/29/2022	3/23/2023	9/25/2023	3/5/2024	9/30/2024	3/6/2025	9/17/2025
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-dichloroethylene	<1	<1	<1	<1	<1	<1	<1
1,2,3-trichloropropane	<1	<1	<1	<1	<1	<1	<1
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
1,4-dichlorobenzene	<1	<1	<1	<1	<1	<1	<1
2-butanone (mek)	<10	<10	<10	<10	<10	<10	<10
2-hexanone (mbk)	<5	<5	<5	<5	<5	<5	<5
4-methyl-2-pentanone (mibk)	<5	<5	<5	<5	<5	<5	<5
Acetone	<10	<10	<10	<10	<10	<10	<10
Acrylonitrile	<5	<5	<5	<5	<5	<5	<5
Antimony, total	<2	<2	<2	<2	<2	<2	<1
Arsenic, total	<4	<4	<4	<4	<4	<4	<2
Barium, total	46.2	60.7	66.9	61.8	43.7	62.4	33.2
Benzene	<1	<1	<1	<1	<1	<1	<1
Beryllium, total	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<5
Bromochloromethane	<1	<1	<1	<1	<1	<1	<1
Bromodichloromethane	<1	<1	<1	<1	<1	<1	<1
Bromoform	<1	<1	<1	<1	<1	<1	<1
Bromomethane	<1	<1	<1	<1	<1	<1	<1
Cadmium, total	<8	<8	<8	<8	<8	<8	<2
Carbon disulfide	<1	<1	<1	<1	<1	<1	<1
Carbon tetrachloride	<1	<1	<1	<1	<1	<1	<1
Chlorobenzene	<1	<1	<1	<1	<1	<1	<1
Chloroethane	<1	<1	<1	<1	<1	<1	<1
Chloroform	<1	<1	<1	<1	<1	<1	<1
Chloromethane	<1	<1	<1	<1	<1	<1	<1
Chromium, total	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	2.7
Cis-1,2-dichloroethylene	<1	<1	<1	<1	<1	<1	<1
Cis-1,3-dichloropropene	<1	<1	<1	<1	<1	<1	<1
Cobalt, total	<4	<4	<4	<4	<4	<4	<5
Copper, total	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<5.0
Dibromochloromethane	<1	<1	<1	<1	<1	<1	<1
Dibromomethane	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	<1	<1	<1	<1	<1	<1	<1
Lead, total	<4	<4	<4	<4	<4	<4	<1
Methyl iodide	<1	<1	<1	<1	<1	<1	<1
Methylene chloride	<5	<5	<5	<5	<5	<5	<5
Nickel, total	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<5.0
Selenium, total	23.1	16.4	14.5	16.5	10.2	15.0	10.8
Silver, total	<4	<4	<4	<4	<4	<4	<5
Solids, total suspended							
Styrene	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethylene	<1	<1	<1	<1	<1	<1	<1
Thallium, total	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5
Toluene	<1	<1	<1	<1	<1	<1	<1
Trans-1,2-dichloroethylene	<1	<1	<1	<1	<1	<1	<1
Trans-1,3-dichloropropene	<1	<1	<1	<1	<1	<1	<1
Trans-1,4-dichloro-2-butene	<5	<5	<5	<5	<5	<5	<5
Trichloroethylene	<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	<1	<1	<1	<1	<1	<1	<1
Vanadium, total	<20	<20	<20	<20	<20	<20	<2
Vinyl acetate	<5	<5	<5	<5	<5	<5	<5
Vinyl chloride	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	<2	<2	<2	<2	<2	<2	<2
Zinc, total	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<5.0

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

Table 9

Analytical Data Summary for MW-3A

Constituents	Units	3/20/2014	4/9/2014	9/15/2014	3/6/2015	8/24/2015	3/1/2016	9/9/2016	10/31/2016	3/22/2017
(3,4)-methylphenol	ug/L									<8
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-dichloroethylene	ug/L		<1	<1	<1	<1	<1	<1		<1
1,1-dichloropropene	ug/L									<1
1,2,3-trichloropropane	ug/L		<1	<1	<1	<1	<1	<1		<1
1,2,4,5-tetrachlorobenzene	ug/L									<8
1,2,4-trichlorobenzene	ug/L									<1
1,2-dibromo-3-chloropropane	ug/L		<1	<1	<1	<1	<1	<1		<1
1,2-dibromoethane	ug/L		<1	<1	<1	<1	<1	<1		<1
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
1,2-dinitrobenzene	ug/L									<8
1,3,5-trinitrobenzene	ug/L									<8
1,3-dichlorobenzene	ug/L									<1
1,3-dichloropropane	ug/L									<1
1,3-dinitrobenzene	ug/L									<8
1,4-dichlorobenzene	ug/L		<1	<1	<1	<1	<1	<1		<1
1,4-naphthoquinone	ug/L									<8
1,4-phenylenediamine	ug/L									<8
1-naphthylamine	ug/L									<8
2,2-dichloropropane	ug/L									<1
2,3,4,6-tetrachlorophenol	ug/L									<8
2,4,5-t	ug/L									<5
2,4,5-tp (silvex)	ug/L									<5
2,4,5-trichlorophenol	ug/L									<8
2,4,6-trichlorophenol	ug/L									<8
2,4-d	ug/L									<2
2,4-dichlorophenol	ug/L									<8
2,4-dimethylphenol	ug/L									<8
2,4-dinitrophenol	ug/L									<8
2,4-dinitrotoluene	ug/L									<8
2,6-dichlorophenol	ug/L									<8
2,6-dinitrotoluene	ug/L									<8
2-acetylaminofluorene	ug/L									<8
2-butanone (mek)	ug/L		<5	<5	<5	<5	<5	<5		<5
2-chloronaphthalene	ug/L									<8
2-chlorophenol	ug/L									<8
2-hexanone (mbk)	ug/L		<5	<5	<5	<5	<5	<5		<5
2-methylnaphthalene	ug/L									<8
2-methylphenol	ug/L									<8
2-naphthylamine	ug/L									<8
2-nitroaniline	ug/L									<8
2-nitrophenol	ug/L									<8
3,3'-dichlorobenzidine	ug/L									<8
3,3'-dimethylbenzidine	ug/L									<8
3-methylcholanthrene	ug/L									<8
3-nitroaniline	ug/L									<8
4,4'-ddd	ug/L									<.05
4,4'-dde	ug/L									<.05
4,4'-ddt	ug/L									<.05
4,6-dinitro-2-methylphenol	ug/L									<8
4-aminobiphenyl	ug/L									<8
4-bromophenyl phenyl ether	ug/L									<8
4-chloro-3-methylphenol	ug/L									<8
4-chloroaniline	ug/L									<8
4-chlorophenyl phenyl ether	ug/L									<8
4-methyl-2-pentanone (mibk)	ug/L		<5	<5	<5	<5	<5	<5		<5
4-nitroaniline	ug/L									<8
4-nitrophenol	ug/L									<8
5-nitro-o-toluidine	ug/L									<8
7,12-dimethylbenz(a)anthracene	ug/L									<8
Acenaphthene	ug/L									<8
Acenaphthylene	ug/L									<8
Acetone	ug/L	<10	<10	<10	<10	<10	<10	<10		<10
Acetonitrile	ug/L									<10
Acetophenone	ug/L									<8
Acrolein	ug/L									<10
Acrylonitrile	ug/L		<5	<5	<5	<5	<5	<5		<5
Aldrin	ug/L									<.05
Allyl chloride	ug/L									<1
Alpha-bhc	ug/L									<.05
Anthracene	ug/L									<8

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

Table 9

Analytical Data Summary for MW-3A

Constituents	8/24/2017	11/15/2017	2/26/2018	8/29/2018	3/18/2019	9/10/2019	3/25/2020	9/4/2020	3/2/2021
(3,4)-methylphenol			<8						
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-dichloroethylene	<1		<1	<1	<1	<1	<1	<1	<1
1,1-dichloropropene			<1						
1,2,3-trichloropropane	<1		<1	<1	<1	<1	<1	<1	<1
1,2,4,5-tetrachlorobenzene			<8						
1,2,4-trichlorobenzene			<1						
1,2-dibromo-3-chloropropane	<1		<1	<1	<1	<1	<5	<5	<5
1,2-dibromoethane	<1		<1	<1	<1	<1	<1	<1	<1
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
1,2-dinitrobenzene			<8						
1,3,5-trinitrobenzene			<8						
1,3-dichlorobenzene			<1						
1,3-dichloropropane			<1						
1,3-dinitrobenzene			<8						
1,4-dichlorobenzene	<1		<1	<1	<1	<1	<1	<1	<1
1,4-naphthoquinone			<8						
1,4-phenylenediamine			<8						
1-naphthylamine			<8						
2,2-dichloropropane			<1						
2,3,4,6-tetrachlorophenol			<8						
2,4,5-t			<5						
2,4,5-tp (silvex)			<5						
2,4,5-trichlorophenol			<8						
2,4,6-trichlorophenol			<8						
2,4-d			<2						
2,4-dichlorophenol			<8						
2,4-dimethylphenol			<8						
2,4-dinitrophenol			<8						
2,4-dinitrotoluene			<8						
2,6-dichlorophenol			<8						
2,6-dinitrotoluene			<8						
2-acetylaminofluorene			<8						
2-butanone (mek)	<5		<5	<5	<5	<5	<5	<5	<5
2-chloronaphthalene			<8						
2-chlorophenol			<8						
2-hexanone (mbk)	<5		<5	<5	<5	<5	<5	<5	<5
2-methylnaphthalene			<8						
2-methylphenol			<8						
2-naphthylamine			<8						
2-nitroaniline			<8						
2-nitrophenol			<8						
3,3'-dichlorobenzidine			<8						
3,3'-dimethylbenzidine			<8						
3-methylcholanthrene			<8						
3-nitroaniline			<8						
4,4'-ddd			<.05						
4,4'-dde			<.05						
4,4'-ddt			<.05						
4,6-dinitro-2-methylphenol			<8						
4-aminobiphenyl			<8						
4-bromophenyl phenyl ether			<8						
4-chloro-3-methylphenol			<8						
4-chloroaniline			<8						
4-chlorophenyl phenyl ether			<8						
4-methyl-2-pentanone (mibk)	<5		<5	<5	<5	<5	<5	<5	<5
4-nitroaniline			<8						
4-nitrophenol			<8						
5-nitro-o-toluidine			<8						
7,12-dimethylbenz(a)anthracene			<8						
Acenaphthene			<8						
Acenaphthylene			<8						
Acetone	<10		<10	<10	<10	<10	<10	<10	<10
Acetonitrile			<10						
Acetophenone			<8						
Acrolein			<10						
Acrylonitrile	<5		<5	<5	<5	<5	<5	<5	<5
Aldrin			<.05						
Allyl chloride			<1						
Alpha-bhc			<.05						
Anthracene			<8						

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

Table 9

Analytical Data Summary for MW-3A

Constituents	9/2/2021	3/2/2022	8/29/2022	3/23/2023	3/5/2024	9/30/2024	3/6/2025	9/17/2025
(3,4)-methylphenol				<8				
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-dichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloropropene				<1				
1,2,3-trichloropropane	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4,5-tetrachlorobenzene				<8				
1,2,4-trichlorobenzene				<1				
1,2-dibromo-3-chloropropane	<5	<5	<5	<1	<5	<5	<5	<5
1,2-dibromoethane	<1	<1	<1	<1	<1	<1	<1	<1
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
1,2-dinitrobenzene				<8				
1,3,5-trinitrobenzene				<8				
1,3-dichlorobenzene				<1				
1,3-dichloropropane				<1				
1,3-dinitrobenzene				<8				
1,4-dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1
1,4-naphthoquinone				<8				
1,4-phenylenediamine				<8				
1-naphthylamine				<8				
2,2-dichloropropane				<1				
2,3,4,6-tetrachlorophenol				<8				
2,4,5-t				<5				
2,4,5-tp (silvex)				<5				
2,4,5-trichlorophenol				<8				
2,4,6-trichlorophenol				<8				
2,4-d				<2				
2,4-dichlorophenol				<8				
2,4-dimethylphenol				<8				
2,4-dinitrophenol				<8				
2,4-dinitrotoluene				<8				
2,6-dichlorophenol				<8				
2,6-dinitrotoluene				<8				
2-acetylaminofluorene				<8				
2-butanone (mek)	<5	<10	<10	<5	<10	<10	<10	<10
2-chloronaphthalene				<8				
2-chlorophenol				<8				
2-hexanone (mbk)	<5	<5	<5	<5	<5	<5	<5	<5
2-methylnaphthalene				<8				
2-methylphenol				<8				
2-naphthylamine				<8				
2-nitroaniline				<8				
2-nitrophenol				<8				
3,3'-dichlorobenzidine				<8				
3,3'-dimethylbenzidine				<8				
3-methylcholanthrene				<8				
3-nitroaniline				<8				
4,4'-ddd				<.05				
4,4'-dde				<.05				
4,4'-ddt				<.05				
4,6-dinitro-2-methylphenol				<8				
4-aminobiphenyl				<8				
4-bromophenyl phenyl ether				<8				
4-chloro-3-methylphenol				<8				
4-chloroaniline				<8				
4-chlorophenyl phenyl ether				<8				
4-methyl-2-pentanone (mibk)	<5	<5	<5	<5	<5	<5	<5	<5
4-nitroaniline				<8				
4-nitrophenol				<8				
5-nitro-o-toluidine				<8				
7,12-dimethylbenz(a)anthracene				<8				
Acenaphthene				<8				
Acenaphthylene				<8				
Acetone	<10	<10	<10	<10	<10	<10	<10	<10
Acetonitrile				<10				
Acetophenone				<8				
Acrolein				<10				
Acrylonitrile	<5	<5	<5	<5	<5	<5	<5	<5
Aldrin				<.05				
Allyl chloride				<1				
Alpha-bhc				<.05				
Anthracene				<8				

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

Table 9

Analytical Data Summary for MW-3A

Constituents	Units	3/20/2014	4/9/2014	9/15/2014	3/6/2015	8/24/2015	3/1/2016	9/9/2016	10/31/2016	3/22/2017
Antimony, total	ug/L		<2	<2	<2	<2	<2	<2		<2
Arochlor 1016	ug/L									<.1
Arochlor 1221	ug/L									<.2
Arochlor 1232	ug/L									<.2
Arochlor 1242	ug/L									<.2
Arochlor 1248	ug/L									<.2
Arochlor 1254	ug/L									<.1
Arochlor 1260	ug/L									<.1
Arsenic, total	ug/L		<4.0	<4.0	<4.0	<4.0	<4.0	6.1	4.7	<4.0
Azobenzene	ug/L									<.8
Barium, total	ug/L	308.0	178.0	102.0	115.0	125.0	102.0	369.0	308.0	140.0
Benzene	ug/L		<1	<1	<1	<1	<1	<1		<1
Benzo(a)anthracene	ug/L									<.8
Benzo(a)pyrene	ug/L									<.8
Benzo(b)fluoranthene	ug/L									<.8
Benzo(g,h,i)perylene	ug/L									<.8
Benzo(k)fluoranthene	ug/L									<.8
Benzyl alcohol	ug/L									<.8
Beryllium, total	ug/L		<4.0	<4.0	<4.0	<4.0	<4.0	<4.0		<4.0
Beta-bhc	ug/L									<.05
Bis (2-chloroethoxy) methane	ug/L									<.8
Bis(2-chloroethyl) ether	ug/L									<.8
Bis(2-chloroisopropyl) ether	ug/L									<.8
Bis(2-ethylhexyl) phthalate	ug/L									<.8
Bromochloromethane	ug/L		<1	<1	<1	<1	<1	<1		<1
Bromodichloromethane	ug/L		<1	<1	<1	<1	<1	<1		<1
Bromoform	ug/L		<1	<1	<1	<1	<1	<1		<1
Bromomethane	ug/L		<1	<1	<1	<1	<1	<1		<1
Butyl benzyl phthalate	ug/L									<.8
Cadmium, total	ug/L		<.8	<.8	<.8	<.8	<.8	<.8		<.8
Carbon disulfide	ug/L		<1	<1	<1	<1	<1	<1		<1
Carbon tetrachloride	ug/L		<1	<1	<1	<1	<1	<1		<1
Chlordane	ug/L									<.1
Chlorobenzene	ug/L		<1	<1	<1	<1	<1	<1		<1
Chlorobenzilate	ug/L									<.8
Chloroethane	ug/L		<1	<1	<1	<1	<1	<1		<1
Chloroform	ug/L		<1	<1	<1	<1	<1	<1		<1
Chloromethane	ug/L		<1	<1	<1	<1	<1	<1		<1
Chloroprene	ug/L									<1
Chromium, total	ug/L		<.8	<.8	<.8	<.8	<.8	<.8		<.8
Chrysene	ug/L									<.8
Cis-1,2-dichloroethylene	ug/L		<1	<1	<1	<1	<1	<1		<1
Cis-1,3-dichloropropene	ug/L		<1	<1	<1	<1	<1	<1		<1
Cobalt, total	ug/L	<4.0	<4.0	1.0	1.5	.9	<.8	.8		<.8
Copper, total	ug/L		6.2	<4.0	<4.0	<4.0	<4.0	<4.0		<4.0
Cyanide, total	mg/L									<.005
Delta-bhc	ug/L									<.05
Diallate	ug/L									<.8
Dibenzo(a,h)anthracene	ug/L									<.8
Dibenzofuran	ug/L									<.8
Dibromochloromethane	ug/L		<1	<1	<1	<1	<1	<1		<1
Dibromomethane	ug/L		<1	<1	<1	<1	<1	<1		<1
Dichlorodifluoromethane	ug/L									<1
Dieldrin	ug/L									<.05
Diethyl phthalate	ug/L									<.8
Dimethoate	ug/L									<.4
Dimethylphthalate	ug/L									<.8
Di-n-butyl phthalate	ug/L									<.8
Di-n-octyl phthalate	ug/L									<.8
Dinoseb	ug/L									<.5
Diphenylamine	ug/L									<.8
Disulfoton	ug/L									<.4
Endosulfan i	ug/L									<.05
Endosulfan ii	ug/L									<.05
Endosulfan sulfate	ug/L									<.05
Endrin	ug/L									<.05
Endrin aldehyde	ug/L									<.05
Ethyl methacrylate	ug/L									<10
Ethyl methanesulfonate	ug/L									<.8
Ethylbenzene	ug/L		<1	<1	<1	<1	<1	<1		<1
Famphur	ug/L									<.4
Fluoranthene	ug/L									<.8
Fluorene	ug/L									<.8
Gamma-bhc (lindane)	ug/L									<.05
Heptachlor	ug/L									<.05
Heptachlor epoxide	ug/L									<.05
Hexachlorobenzene	ug/L									<.05

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

Table 9

Analytical Data Summary for MW-3A

Constituents	8/24/2017	11/15/2017	2/26/2018	8/29/2018	3/18/2019	9/10/2019	3/25/2020	9/4/2020	3/2/2021
Antimony, total	<2		<2	<2	<2	<2	<2	<2	<2
Arochlor 1016			<.1						
Arochlor 1221			<.2						
Arochlor 1232			<.2						
Arochlor 1242			<.2						
Arochlor 1248			<.2						
Arochlor 1254			<.1						
Arochlor 1260			<.1						
Arsenic, total	4.5	9.4	<4.0	5.6	<4.0	<4.0	<4.0	<4.0	<4.0
Azobenzene			<8						
Barium, total	535.0	516.0	154.0	379.0	72.3	195.0	86.4	210.0	176.0
Benzene	<1		<1	<1	<1	<1	<1	<1	<1
Benzo(a)anthracene			<8						
Benzo(a)pyrene			<8						
Benzo(b)fluoranthene			<8						
Benzo(g,h,i)perylene			<8						
Benzo(k)fluoranthene			<8						
Benzyl alcohol			<8						
Beryllium, total	<4.0		<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Beta-bhc			<.05						
Bis (2-chloroethoxy) methane			<8						
Bis(2-chloroethyl) ether			<8						
Bis(2-chloroisopropyl) ether			<8						
Bis(2-ethylhexyl) phthalate			193	<6	<6	<6	<6	<6	<6
Bromochloromethane	<1		<1	<1	<1	<1	<1	<1	<1
Bromodichloromethane	<1		<1	<1	<1	<1	<1	<1	<1
Bromoform	<1		<1	<1	<1	<1	<1	<1	<1
Bromomethane	<1		<1	<1	<1	<1	<1	<1	<1
Butyl benzyl phthalate			<8						
Cadmium, total	<.8		<.8	<.8	<.8	<.8	<.8	<.8	<.8
Carbon disulfide	<1		<1	<1	<1	<1	<1	<1	<1
Carbon tetrachloride	<1		<1	<1	<1	<1	<1	<1	<1
Chlordane			<.1						
Chlorobenzene	<1		<1	<1	<1	<1	<1	<1	<1
Chlorobenzilate			<8						
Chloroethane	<1		<1	<1	<1	<1	<1	<1	<1
Chloroform	<1		<1	<1	<1	<1	<1	<1	<1
Chloromethane	<1		<1	<1	<1	<1	<1	<1	<1
Chloroprene			<1						
Chromium, total	<8		<8	<8	<8	<8	<8	<8	<8
Chrysene			<8						
Cis-1,2-dichloroethylene	<1		<1	<1	<1	<1	<1	<1	<1
Cis-1,3-dichloropropene	<1		<1	<1	<1	<1	<1	<1	<1
Cobalt, total	<.8	4.9	<.8	<.8	1.1	1.6	.9	.9	2.5
Copper, total	<4.0		<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Cyanide, total			<.005						
Delta-bhc			<.05						
Diallate			<8						
Dibenzo(a,h)anthracene			<8						
Dibenzofuran			<8						
Dibromochloromethane	<1		<1	<1	<1	<1	<1	<1	<1
Dibromomethane	<1		<1	<1	<1	<1	<1	<1	<1
Dichlorodifluoromethane			<1						
Dieldrin			<.05						
Diethyl phthalate			<8						
Dimethoate			<.4						
Dimethylphthalate			<8						
Di-n-butyl phthalate			<8						
Di-n-octyl phthalate			<8						
Dinoseb			<.5						
Diphenylamine			<8						
Disulfoton			<.4						
Endosulfan i			<.05						
Endosulfan ii			<.05						
Endosulfan sulfate			<.05						
Endrin			<.05						
Endrin aldehyde			<.05						
Ethyl methacrylate			<10						
Ethyl methanesulfonate			<8						
Ethylbenzene	<1		<1	<1	<1	<1	<1	<1	<1
Famphur			<.4						
Fluoranthene			<8						
Fluorene			<8						
Gamma-bhc (lindane)			<.05						
Heptachlor			<.05						
Heptachlor epoxide			<.05						
Hexachlorobenzene			<.05						

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

Table 9

Analytical Data Summary for MW-3A

Constituents	9/2/2021	3/2/2022	8/29/2022	3/23/2023	3/5/2024	9/30/2024	3/6/2025	9/17/2025
Antimony, total	<2	<2	<2	<2	<2	<2	<2	<1
Arochlor 1016				<1				
Arochlor 1221				<2				
Arochlor 1232				<2				
Arochlor 1242				<2				
Arochlor 1248				<2				
Arochlor 1254				<1				
Arochlor 1260				<1				
Arsenic, total	4.1	<4.0	<4.0	<4.0	<4.0	10.1	<4.0	6.9
Azobenzene				<8				
Barium, total	264.0	387.0	378.0	333.0	153.0	97.8	67.0	188.0
Benzene	<1	<1	<1	<1	<1	<1	<1	<1
Benzo(a)anthracene				<8				
Benzo(a)pyrene				<8				
Benzo(b)fluoranthene				<8				
Benzo(g,h,i)perylene				<8				
Benzo(k)fluoranthene				<8				
Benzyl alcohol				<8				
Beryllium, total	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<5
Beta-bhc				<.05				
Bis (2-chloroethoxy) methane				<8				
Bis(2-chloroethyl) ether				<8				
Bis(2-chloroisopropyl) ether				<8				
Bis(2-ethylhexyl) phthalate		<6		8	<6			
Bromochloromethane	<1	<1	<1	<1	<1	<1	<1	<1
Bromodichloromethane	<1	<1	<1	<1	<1	<1	<1	<1
Bromoform	<1	<1	<1	<1	<1	<1	<1	<1
Bromomethane	<1	<1	<1	<1	<1	<1	<1	<1
Butyl benzyl phthalate				<8				
Cadmium, total	<.8	<.8	<.8	<.8	<.8	<.8	<.8	<.2
Carbon disulfide	<1	<1	<1	<1	<1	<1	<1	<1
Carbon tetrachloride	<1	<1	<1	<1	<1	<1	<1	<1
Chlordane				<1				
Chlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzilate				<8				
Chloroethane	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	<1	<1	<1	<1	<1	<1	<1	<1
Chloromethane	<1	<1	<1	<1	<1	<1	<1	<1
Chloroprene				<1				
Chromium, total	<8	<8	<8	<8	<8	<8	<8	<1
Chrysene				<8				
Cis-1,2-dichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1
Cis-1,3-dichloropropene	<1	<1	<1	<1	<1	<1	<1	<1
Cobalt, total	1.7	.8	<.4	.7	1.1	1.5	.4	2.0
Copper, total	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<5.0
Cyanide, total				<.005				
Delta-bhc				<.05				
Diallate				<8				
Dibenzo(a,h)anthracene				<8				
Dibenzofuran				<8				
Dibromochloromethane	<1	<1	<1	<1	<1	<1	<1	<1
Dibromomethane	<1	<1	<1	<1	<1	<1	<1	<1
Dichlorodifluoromethane				<1				
Dieldrin				<.05				
Diethyl phthalate				<8				
Dimethoate				<.4				
Dimethylphthalate				<8				
Di-n-butyl phthalate				<8				
Di-n-octyl phthalate				<8				
Dinoseb				<.5				
Diphenylamine				<8				
Disulfoton				<.4				
Endosulfan i				<.05				
Endosulfan ii				<.05				
Endosulfan sulfate				<.05				
Endrin				<.05				
Endrin aldehyde				<.05				
Ethyl methacrylate				<10				
Ethyl methanesulfonate				<8				
Ethylbenzene	<1	<1	<1	<1	<1	<1	<1	<1
Famphur				<.4				
Fluoranthene				<8				
Fluorene				<8				
Gamma-bhc (lindane)				<.05				
Heptachlor				<.05				
Heptachlor epoxide				<.05				
Hexachlorobenzene				<.05				

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

Table 9

Analytical Data Summary for MW-3A

Constituents	Units	3/20/2014	4/9/2014	9/15/2014	3/6/2015	8/24/2015	3/1/2016	9/9/2016	10/31/2016	3/22/2017
Hexachlorobutadiene	ug/L									<8
Hexachlorocyclopentadiene	ug/L									<8
Hexachloroethane	ug/L									<8
Hexachloropropene	ug/L									<8
Indeno(1,2,3-cd)pyrene	ug/L									<8
Isobutanol	ug/L									<1000
Isodrin	ug/L									<8
Isophorone	ug/L									<8
Isosafrole	ug/L									<8
Kepone	ug/L									<8
Lead, total	ug/L		<4	<4	<4	<4	<4	<4		<4
Mercury, total	ug/L									<.5
Methacrylonitrile	ug/L									<1
Methapyrilene	ug/L									<8
Methoxychlor	ug/L									<.05
Methyl iodide	ug/L		<1	<1	<1	<1	<1	<1		<1
Methyl methacrylate	ug/L									<1
Methyl methanesulfonate	ug/L									<8
Methyl parathion	ug/L									<4
Methylene chloride	ug/L		<5	<5	<5	<5	<5	<5		<5
Naphthalene	ug/L									<8
Nickel, total	ug/L		<4.0	<4.0	5.0	7.1	7.9	<4.0		<4.0
Nitrobenzene	ug/L									<8
N-nitrosodiethylamine	ug/L									<8
N-nitrosodimethylamine	ug/L									<8
N-nitrosodi-n-butylamine	ug/L									<8
N-nitroso-di-n-propylamine	ug/L									<8
N-nitrosodiphenylamine	ug/L									<8
N-nitrosomethylethylamine	ug/L									<8
N-nitrosopiperidine	ug/L									<8
N-nitrosopyrrolidine	ug/L									<8
O,o,o-triethyl phosphorothioate	ug/L									<4
O-toluidine	ug/L									<8
Parathion	ug/L									<4
P-dimethylaminoazobenzene	ug/L									<8
Pentachlorobenzene	ug/L									<8
Pentachloronitrobenzene (pcnb)	ug/L									<8
Pentachlorophenol	ug/L									<8
Phenacetin	ug/L									<8
Phenanthrene	ug/L									<8
Phenol	ug/L									<8
Phorate	ug/L									<4
Pronamide	ug/L									<8
Propionitrile	ug/L									<10
Pyrene	ug/L									<8
Safrole	ug/L									<8
Selenium, total	ug/L		<4	<4	<4	<4	<4	<4		<4
Silver, total	ug/L		<4	<4	<4	<4	<4	<4		<4
Solids, total suspended	mg/L			48	52					
Styrene	ug/L		<1	<1	<1	<1	<1	<1		<1
Sulfide, total	mg/L									<1
Tetrachloroethylene	ug/L		<1	<1	<1	<1	<1	<1		<1
Thallium, total	ug/L		<4.0	<4.0	<4.0	<4.0	<4.0	<4.0		<4.0
Thionazin	ug/L									<4
Tin, total	ug/L									<20
Toluene	ug/L		<1	<1	<1	<1	<1	<1		<1
Toxaphene	ug/L									<2
Trans-1,2-dichloroethylene	ug/L		<1	<1	<1	<1	<1	<1		<1
Trans-1,3-dichloropropene	ug/L		<1	<1	<1	<1	<1	<1		<1
Trans-1,4-dichloro-2-butene	ug/L		<5	<5	<5	<5	<5	<5		<5
Trichloroethylene	ug/L		<1	<1	<1	<1	<1	<1		<1
Trichlorofluoromethane	ug/L		<1	<1	<1	<1	<1	<1		<1
Vanadium, total	ug/L		<20	<20	<20	<20	<20	<20		<20
Vinyl acetate	ug/L		<5	<5	<5	<5	<5	<5		<5
Vinyl chloride	ug/L		<1	<1	<1	<1	<1	<1		<1
Xylenes, total	ug/L		<2	<2	<2	<2	<2	<2		<2
Zinc, total	ug/L		<20.0	<8.0	<8.0	<8.0	<8.0	8.9		<8.0

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

Table 9

Analytical Data Summary for MW-3A

Constituents	8/24/2017	11/15/2017	2/26/2018	8/29/2018	3/18/2019	9/10/2019	3/25/2020	9/4/2020	3/2/2021
Hexachlorobutadiene			<8						
Hexachlorocyclopentadiene			<8						
Hexachloroethane			<8						
Hexachloropropene			<8						
Indeno(1,2,3-cd)pyrene			<8						
Isobutanol			<1000						
Isodrin			<8						
Isophorone			<8						
Isosafrole			<8						
Kepone			<8						
Lead, total	<4		<4	<4	<4	<4	<4	<4	<4
Mercury, total			<.5						
Methacrylonitrile			<1						
Methapyrilene			<8						
Methoxychlor			<.05						
Methyl iodide	<1		<1	<1	<1	<1	<1	<1	<1
Methyl methacrylate			<1						
Methyl methanesulfonate			<8						
Methyl parathion			<.4						
Methylene chloride	<5		<5	<5	<5	<5	<5	<5	<5
Naphthalene			<8						
Nickel, total	<4.0		4.7	<8.0	4.8	4.3	4.5	<4.0	<4.0
Nitrobenzene			<8						
N-nitrosodiethylamine			<8						
N-nitrosodimethylamine			<8						
N-nitrosodi-n-butylamine			<8						
N-nitroso-di-n-propylamine			<8						
N-nitrosodiphenylamine			<8						
N-nitrosomethylethylamine			<8						
N-nitrosopiperidine			<8						
N-nitrosopyrrolidine			<8						
O,o,o-triethyl phosphorothioate			<.4						
O-toluidine			<8						
Parathion			<.4						
P-dimethylaminoazobenzene			<8						
Pentachlorobenzene			<8						
Pentachloronitrobenzene (pcnb)			<8						
Pentachlorophenol			<8						
Phenacetin			<8						
Phenanthrene			<8						
Phenol			<8						
Phorate			<.4						
Pronamide			<8						
Propionitrile			<10						
Pyrene			<8						
Safrole			<8						
Selenium, total	<4		<4	<4	<4	<4	<4	<4	<4
Silver, total	<4		<4	<8	<4	<4	<4	<4	<4
Solids, total suspended									
Styrene	<1		<1	<1	<1	<1	<1	<1	<1
Sulfide, total			<.1						
Tetrachloroethylene	<1		<1	<1	<1	<1	<1	<1	<1
Thallium, total	<4.0		<4.0	<4.0	<2.0	<2.0	<2.0	<2.0	<2.0
Thionazin			<.4						
Tin, total			<20						
Toluene	<1		<1	<1	<1	<1	<1	<1	<1
Toxaphene			<.2						
Trans-1,2-dichloroethylene	<1		<1	<1	<1	<1	<1	<1	<1
Trans-1,3-dichloropropene	<1		<1	<1	<1	<1	<1	<1	<1
Trans-1,4-dichloro-2-butene	<5		<5	<5	<5	<5	<5	<5	<5
Trichloroethylene	<1		<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	<1		<1	<1	<1	<1	<1	<1	<1
Vanadium, total	<20		<20	<20	<20	<20	<20	<20	<20
Vinyl acetate	<5		<5	<5	<5	<5	<5	<5	<5
Vinyl chloride	<1		<1	<1	<1	<1	<1	<1	<1
Xylenes, total	<2		<2	<2	<2	<2	<2	<2	<2
Zinc, total	<8.0		<8.0	71.8	<20.0	14.7	<20.0	<20.0	<20.0

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

Table 9

Analytical Data Summary for MW-3A

Constituents	9/2/2021	3/2/2022	8/29/2022	3/23/2023	3/5/2024	9/30/2024	3/6/2025	9/17/2025
Hexachlorobutadiene				<8				
Hexachlorocyclopentadiene				<8				
Hexachloroethane				<8				
Hexachloropropene				<8				
Indeno(1,2,3-cd)pyrene				<8				
Isobutanol				<1000				
Isodrin				<8				
Isophorone				<8				
Isosafrole				<8				
Kepone				<8				
Lead, total	<4	<4	<4	<4	<4	<4	<4	<1
Mercury, total				<.5				
Methacrylonitrile				<1				
Methapyrilene				<8				
Methoxychlor				<.05				
Methyl iodide	<1	<1	<1	<2	<1	<1	<1	<1
Methyl methacrylate				<1				
Methyl methanesulfonate				<8				
Methyl parathion				<.4				
Methylene chloride	<5	<5	<5	<5	<5	<5	<5	<5
Naphthalene				<8				
Nickel, total	<4.0	<4.0	<4.0	<4.0	12.6	<4.0	<4.0	5.1
Nitrobenzene				<8				
N-nitrosodiethylamine				<8				
N-nitrosodimethylamine				<8				
N-nitrosodi-n-butylamine				<8				
N-nitroso-di-n-propylamine				<8				
N-nitrosodiphenylamine				<8				
N-nitrosomethylethylamine				<8				
N-nitrosopiperidine				<8				
N-nitrosopyrrolidine				<8				
O,o,o-triethyl phosphorothioate				<.4				
O-toluidine				<8				
Parathion				<.4				
P-dimethylaminoazobenzene				<8				
Pentachlorobenzene				<8				
Pentachloronitrobenzene (pcnb)				<8				
Pentachlorophenol				<8				
Phenacetin				<8				
Phenanthrene				<8				
Phenol				<8				
Phorate				<.4				
Pronamide				<8				
Propionitrile				<10				
Pyrene				<8				
Safrole				<8				
Selenium, total	<4	<4	<4	<4	<4	<4	<4	<2
Silver, total	<4	<4	<4	<4	<4	<4	<4	<5
Solids, total suspended								
Styrene	<1	<1	<1	<1	<1	<1	<1	<1
Sulfide, total				<.1				
Tetrachloroethylene	<1	<1	<1	<1	<1	<1	<1	<1
Thallium, total	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<.5
Thionazin				<.4				
Tin, total				<20				
Toluene	<1	<1	<1	<1	<1	<1	<1	<1
Toxaphene				<.2				
Trans-1,2-dichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,3-dichloropropene	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,4-dichloro-2-butene	<5	<5	<5	<5	<5	<5	<5	<5
Trichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	<1	<1	<1	<1	<1	<1	<1	<1
Vanadium, total	<20	<20	<20	<20	<20	<20	<20	<2
Vinyl acetate	<5	<5	<5	<5	<5	<5	<5	<5
Vinyl chloride	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	<2	<2	<2	<2	<2	<2	<2	<2
Zinc, total	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<5.0

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

Table 9

Analytical Data Summary for MW-8

Constituents	Units	3/20/2014	9/15/2014	3/6/2015	8/24/2015	3/1/2016	9/9/2016	10/31/2016	3/22/2017	8/24/2017
(3,4)-methylphenol	ug/L								<8	
1,1,1,2-tetrachloroethane	ug/L	<1	<1	<1	<1	<1	<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-dichloroethylene	ug/L	<1	<1	<1	<1	<1	<1		<1	<1
1,1-dichloropropene	ug/L								<1	
1,2,3-trichloropropane	ug/L	<1	<1	<1	<1	<1	<1		<1	<1
1,2,4,5-tetrachlorobenzene	ug/L								<8	
1,2,4-trichlorobenzene	ug/L								<1	
1,2-dibromo-3-chloropropane	ug/L	<1	<1	<1	<1	<1	<1		<1	<1
1,2-dibromoethane	ug/L	<1	<1	<1	<1	<1	<1		<1	<1
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
1,2-dinitrobenzene	ug/L								<8	
1,3,5-trinitrobenzene	ug/L								<8	
1,3-dichlorobenzene	ug/L								<1	
1,3-dichloropropane	ug/L								<1	
1,3-dinitrobenzene	ug/L								<8	
1,4-dichlorobenzene	ug/L	<1	<1	<1	<1	<1	<1		<1	<1
1,4-naphthoquinone	ug/L								<8	
1,4-phenylenediamine	ug/L								<8	
1-naphthylamine	ug/L								<8	
2,2-dichloropropane	ug/L								<1	
2,3,4,6-tetrachlorophenol	ug/L								<8	
2,4,5-t	ug/L								<.5	
2,4,5-tp (silvex)	ug/L								<.5	
2,4,5-trichlorophenol	ug/L								<8	
2,4,6-trichlorophenol	ug/L								<8	
2,4-d	ug/L								<2	
2,4-dichlorophenol	ug/L								<8	
2,4-dimethylphenol	ug/L								<8	
2,4-dinitrophenol	ug/L								<8	
2,4-dinitrotoluene	ug/L								<8	
2,6-dichlorophenol	ug/L								<8	
2,6-dinitrotoluene	ug/L								<8	
2-acetylaminofluorene	ug/L								<8	
2-butanone (mek)	ug/L	<5	<5	<5	<5	<5	<5		<5	<5
2-chloronaphthalene	ug/L								<8	
2-chlorophenol	ug/L								<8	
2-hexanone (mbk)	ug/L	<5	<5	<5	<5	<5	<5		<5	<5
2-methylnaphthalene	ug/L								<8	
2-methylphenol	ug/L								<8	
2-naphthylamine	ug/L								<8	
2-nitroaniline	ug/L								<8	
2-nitrophenol	ug/L								<8	
3,3'-dichlorobenzidine	ug/L								<8	
3,3'-dimethylbenzidine	ug/L								<8	
3-methylcholanthrene	ug/L								<8	
3-nitroaniline	ug/L								<8	
4,4'-ddd	ug/L								<.05	
4,4'-dde	ug/L								<.05	
4,4'-ddt	ug/L								<.05	
4,6-dinitro-2-methylphenol	ug/L								<8	
4-aminobiphenyl	ug/L								<8	
4-bromophenyl phenyl ether	ug/L								<8	
4-chloro-3-methylphenol	ug/L								<8	
4-chloroaniline	ug/L								<8	
4-chlorophenyl phenyl ether	ug/L								<8	
4-methyl-2-pentanone (mibk)	ug/L	<5	<5	<5	<5	<5	<5		<5	<5
4-nitroaniline	ug/L								<8	
4-nitrophenol	ug/L								<8	
5-nitro-o-toluidine	ug/L								<8	
7,12-dimethylbenz(a)anthracene	ug/L								<8	
Acenaphthene	ug/L								<8	
Acenaphthylene	ug/L								<8	
Acetone	ug/L	<10	<10	<10	<10	<10	<10		<10	<10
Acetonitrile	ug/L								<10	
Acetophenone	ug/L								<8	
Acrolein	ug/L								<10	
Acrylonitrile	ug/L	<5	<5	<5	<5	<5	<5		<5	<5
Aldrin	ug/L								<.05	
Allyl chloride	ug/L								<1	
Alpha-bhc	ug/L								<.05	
Anthracene	ug/L								<8	

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

Table 9

Analytical Data Summary for MW-8

Constituents	2/26/2018	8/29/2018	3/18/2019	9/10/2019	3/25/2020	9/4/2020	3/2/2021	9/2/2021	3/2/2022
(3,4)-methylphenol									<8
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-dichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloropropene									<1
1,2,3-trichloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4,5-tetrachlorobenzene									<8
1,2,4-trichlorobenzene									<1
1,2-dibromo-3-chloropropane	<1	<1	<1	<1	<5	<5	<5	<5	<1
1,2-dibromoethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
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
1,2-dinitrobenzene									<8
1,3,5-trinitrobenzene									<8
1,3-dichlorobenzene									<1
1,3-dichloropropane									<1
1,3-dinitrobenzene									<8
1,4-dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-naphthoquinone									<8
1,4-phenylenediamine									<8
1-naphthylamine									<8
2,2-dichloropropane									<1
2,3,4,6-tetrachlorophenol									<8
2,4,5-t									<.5
2,4,5-tp (silvex)									<.5
2,4,5-trichlorophenol									<8
2,4,6-trichlorophenol									<8
2,4-d									<2
2,4-dichlorophenol									<8
2,4-dimethylphenol									<8
2,4-dinitrophenol									<8
2,4-dinitrotoluene									<8
2,6-dichlorophenol									<8
2,6-dinitrotoluene									<8
2-acetylaminofluorene									<8
2-butanone (mek)	<5	<5	<5	<5	<5	<5	<5	<5	<5
2-chloronaphthalene									<8
2-chlorophenol									<8
2-hexanone (mbk)	<5	<5	<5	<5	<5	<5	<5	<5	<5
2-methylnaphthalene									<8
2-methylphenol									<8
2-naphthylamine									<8
2-nitroaniline									<8
2-nitrophenol									<8
3,3'-dichlorobenzidine									<8
3,3'-dimethylbenzidine									<8
3-methylcholanthrene									<8
3-nitroaniline									<8
4,4'-ddd									<.05
4,4'-dde									<.05
4,4'-ddt									<.05
4,6-dinitro-2-methylphenol									<8
4-aminobiphenyl									<8
4-bromophenyl phenyl ether									<8
4-chloro-3-methylphenol									<8
4-chloroaniline									<8
4-chlorophenyl phenyl ether									<8
4-methyl-2-pentanone (mibk)	<5	<5	<5	<5	<5	<5	<5	<5	<5
4-nitroaniline									<8
4-nitrophenol									<8
5-nitro-o-toluidine									<8
7,12-dimethylbenz(a)anthracene									<8
Acenaphthene									<8
Acenaphthylene									<8
Acetone	<10	<10	<10	<10	<10	<10	<10	<10	<10
Acetonitrile									<10
Acetophenone									<8
Acrolein									<10
Acrylonitrile	<5	<5	<5	<5	<5	<5	<5	<5	<5
Aldrin									<.05
Allyl chloride									<1
Alpha-bhc									<.05
Anthracene									<8

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

Table 9

Analytical Data Summary for MW-8

Constituents	8/29/2022	3/23/2023	9/25/2023	3/5/2024	9/30/2024	3/6/2025	9/17/2025
(3,4)-methylphenol							
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-dichloroethylene	<1	<1	<1	<1	<1	<1	<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	<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
1,2-dinitrobenzene							
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							
2,4,5-tp (silvex)							
2,4,5-trichlorophenol							
2,4,6-trichlorophenol							
2,4-d							
2,4-dichlorophenol							
2,4-dimethylphenol							
2,4-dinitrophenol							
2,4-dinitrotoluene							
2,6-dichlorophenol							
2,6-dinitrotoluene							
2-acetylaminofluorene							
2-butanone (mek)	<10	<10	<10	<10	<10	<10	<10
2-chloronaphthalene							
2-chlorophenol							
2-hexanone (mbk)	<5	<5	<5	<5	<5	<5	<5
2-methylnaphthalene							
2-methylphenol							
2-naphthylamine							
2-nitroaniline							
2-nitrophenol							
3,3'-dichlorobenzidine							
3,3'-dimethylbenzidine							
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 (mibk)	<5	<5	<5	<5	<5	<5	<5
4-nitroaniline							
4-nitrophenol							
5-nitro-o-toluidine							
7,12-dimethylbenz(a)anthracene							
Acenaphthene							
Acenaphthylene							
Acetone	<10	<10	<10	<10	<10	<10	<10
Acetonitrile							
Acetophenone							
Acrolein							
Acrylonitrile	<5	<5	<5	<5	<5	<5	<5
Aldrin							
Allyl chloride							
Alpha-bhc							
Anthracene							

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

Table 9

Analytical Data Summary for MW-8

Constituents	Units	3/20/2014	9/15/2014	3/6/2015	8/24/2015	3/1/2016	9/9/2016	10/31/2016	3/22/2017	8/24/2017
Antimony, total	ug/L	<2	<2	<2	<2	<2	<2		<2	<2
Arochlor 1016	ug/L								<.1	
Arochlor 1221	ug/L								<.2	
Arochlor 1232	ug/L								<.2	
Arochlor 1242	ug/L								<.2	
Arochlor 1248	ug/L								<.2	
Arochlor 1254	ug/L								<.1	
Arochlor 1260	ug/L								<.1	
Arsenic, total	ug/L	5.5	<4.0	<4.0	<4.0	<4.0	<4.0		<4.0	<4.0
Azobenzene	ug/L								<.8	
Barium, total	ug/L	298	81	148	150	112	206		160	155
Benzene	ug/L	<1	<1	<1	<1	<1	<1		<1	<1
Benzo(a)anthracene	ug/L								<.8	
Benzo(a)pyrene	ug/L								<.8	
Benzo(b)fluoranthene	ug/L								<.8	
Benzo(g,h,i)perylene	ug/L								<.8	
Benzo(k)fluoranthene	ug/L								<.8	
Benzyl alcohol	ug/L								<.8	
Beryllium, total	ug/L	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0		<4.0	<4.0
Beta-bhc	ug/L								<.05	
Bis (2-chloroethoxy) methane	ug/L								<.8	
Bis(2-chloroethyl) ether	ug/L								<.8	
Bis(2-chloroisopropyl) ether	ug/L								<.8	
Bis(2-ethylhexyl) phthalate	ug/L	<10	<10	25	<10	<10	<10		<.8	35
Bromochloromethane	ug/L	<1	<1	<1	<1	<1	<1		<1	<1
Bromodichloromethane	ug/L	<1	<1	<1	<1	<1	<1		<1	<1
Bromoform	ug/L	<1	<1	<1	<1	<1	<1		<1	<1
Bromomethane	ug/L	<1	<1	<1	<1	<1	<1		<1	<1
Butyl benzyl phthalate	ug/L								<.8	
Cadmium, total	ug/L	1.0	<.8	<.8	<.8	<.8	<.8		<.8	<.8
Carbon disulfide	ug/L	<1	<1	<1	<1	<1	<1		<1	<1
Carbon tetrachloride	ug/L	<1	<1	<1	<1	<1	<1		<1	<1
Chlordane	ug/L								<.1	
Chlorobenzene	ug/L	<1	<1	<1	<1	<1	<1		<1	<1
Chlorobenzilate	ug/L								<.8	
Chloroethane	ug/L	<1	<1	<1	<1	<1	<1		<1	<1
Chloroform	ug/L	<1	<1	<1	<1	<1	<1		<1	<1
Chloromethane	ug/L	<1	<1	<1	<1	<1	<1		<1	<1
Chloroprene	ug/L								<1	
Chromium, total	ug/L	<.8	<.8	<.8	<.8	<.8	<.8		<.8	<.8
Chrysene	ug/L								<.8	
Cis-1,2-dichloroethylene	ug/L	<1	<1	<1	<1	<1	<1		<1	<1
Cis-1,3-dichloropropene	ug/L	<1	<1	<1	<1	<1	<1		<1	<1
Cobalt, total	ug/L	17.3	<.8	.8	.9	1.2	4.3		<.8	<.8
Copper, total	ug/L	21.1	<4.0	4.1	<4.0	<4.0	<4.0		<4.0	<4.0
Cyanide, total	mg/L								<.005	
Delta-bhc	ug/L								<.05	
Diallate	ug/L								<.8	
Dibenzo(a,h)anthracene	ug/L								<.8	
Dibenzofuran	ug/L								<.8	
Dibromochloromethane	ug/L	<1	<1	<1	<1	<1	<1		<1	<1
Dibromomethane	ug/L	<1	<1	<1	<1	<1	<1		<1	<1
Dichlorodifluoromethane	ug/L								<1	
Dieldrin	ug/L								<.05	
Diethyl phthalate	ug/L								<.8	
Dimethoate	ug/L								<.4	
Dimethylphthalate	ug/L								<.8	
Di-n-butyl phthalate	ug/L								<.8	
Di-n-octyl phthalate	ug/L								<.8	
Dinoseb	ug/L								<.5	
Diphenylamine	ug/L								<.8	
Disulfoton	ug/L								<.4	
Endosulfan i	ug/L								<.05	
Endosulfan ii	ug/L								<.05	
Endosulfan sulfate	ug/L								<.05	
Endrin	ug/L								<.05	
Endrin aldehyde	ug/L								<.05	
Ethyl methacrylate	ug/L								<10	
Ethyl methanesulfonate	ug/L								<.8	
Ethylbenzene	ug/L	<1	<1	<1	<1	<1	<1		<1	<1
Famphur	ug/L								<.4	
Fluoranthene	ug/L								<.8	
Fluorene	ug/L								<.8	
Gamma-bhc (lindane)	ug/L								<.05	
Heptachlor	ug/L								<.05	
Heptachlor epoxide	ug/L								<.05	
Hexachlorobenzene	ug/L								<.05	

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

Table 9

Analytical Data Summary for MW-8

Constituents	2/26/2018	8/29/2018	3/18/2019	9/10/2019	3/25/2020	9/4/2020	3/2/2021	9/2/2021	3/2/2022
Antimony, total	<2	<2	<2	<2	<2	<2	<2	<2	<2
Arochlor 1016									<.1
Arochlor 1221									<.2
Arochlor 1232									<.2
Arochlor 1242									<.2
Arochlor 1248									<.2
Arochlor 1254									<.1
Arochlor 1260									<.1
Arsenic, total	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Azobenzene									<8
Barium, total	158	198	119	180	121	169	260	208	179
Benzene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Benzo(a)anthracene									<8
Benzo(a)pyrene									<8
Benzo(b)fluoranthene									<8
Benzo(g,h,i)perylene									<8
Benzo(k)fluoranthene									<8
Benzyl alcohol									<8
Beryllium, total	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Beta-bhc									<.05
Bis (2-chloroethoxy) methane									<8
Bis(2-chloroethyl) ether									<8
Bis(2-chloroisopropyl) ether									<8
Bis(2-ethylhexyl) phthalate	262	24	<6	<6	<6	<6	<6		<6
Bromochloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromodichloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromoform	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromomethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Butyl benzyl phthalate									<8
Cadmium, total	<.8	<.8	<.8	<.8	<.8	<.8	<.8	<.8	<.8
Carbon disulfide	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon tetrachloride	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlordane									<.1
Chlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzilate									<8
Chloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroprene									<1
Chromium, total	<8	<8	<8	<8	<8	<8	<8	<8	<8
Chrysene									<8
Cis-1,2-dichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cis-1,3-dichloropropene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cobalt, total	<.8	1.6	<.8	1.0	<.8	.5	2.1	1.4	.6
Copper, total	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Cyanide, total									<.005
Delta-bhc									<.05
Diallate									<8
Dibenzo(a,h)anthracene									<8
Dibenzofuran									<8
Dibromochloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromomethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dichlorodifluoromethane									<1
Dieldrin									<.05
Diethyl phthalate									<8
Dimethoate									<.4
Dimethylphthalate									<8
Di-n-butyl phthalate									<8
Di-n-octyl phthalate									<8
Dinoseb									<.5
Diphenylamine									<8
Disulfoton									<.4
Endosulfan i									<.05
Endosulfan ii									<.05
Endosulfan sulfate									<.05
Endrin									<.05
Endrin aldehyde									<.05
Ethyl methacrylate									<10
Ethyl methanesulfonate									<8
Ethylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Famphur									<.4
Fluoranthene									<8
Fluorene									<8
Gamma-bhc (lindane)									<.05
Heptachlor									<.05
Heptachlor epoxide									<.05
Hexachlorobenzene									<.05

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

Table 9

Analytical Data Summary for MW-8

Constituents	8/29/2022	3/23/2023	9/25/2023	3/5/2024	9/30/2024	3/6/2025	9/17/2025
Antimony, total	<2	<2	<2	<2	<2	<2	<1
Arochlor 1016							
Arochlor 1221							
Arochlor 1232							
Arochlor 1242							
Arochlor 1248							
Arochlor 1254							
Arochlor 1260							
Arsenic, total	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<2.0
Azobenzene							
Barium, total	300	177	198	201	264	208	305
Benzene	<1	<1	<1	<1	<1	<1	<1
Benzo(a)anthracene							
Benzo(a)pyrene							
Benzo(b)fluoranthene							
Benzo(g,h,i)perylene							
Benzo(k)fluoranthene							
Benzyl alcohol							
Beryllium, total	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<.5
Beta-bhc							
Bis (2-chloroethoxy) methane							
Bis(2-chloroethyl) ether							
Bis(2-chloroisopropyl) ether							
Bis(2-ethylhexyl) phthalate							
Bromochloromethane	<1	<1	<1	<1	<1	<1	<1
Bromodichloromethane	<1	<1	<1	<1	<1	<1	<1
Bromoform	<1	<1	<1	<1	<1	<1	<1
Bromomethane	<1	<1	<1	<1	<1	<1	<1
Butyl benzyl phthalate							
Cadmium, total	<.8	<.8	<.8	<.8	<.8	<.8	.7
Carbon disulfide	<1	<1	<1	<1	<1	<1	<1
Carbon tetrachloride	<1	<1	<1	<1	<1	<1	<1
Chlordane							
Chlorobenzene	<1	<1	<1	<1	<1	<1	<1
Chlorobenzilate							
Chloroethane	<1	<1	<1	<1	<1	<1	<1
Chloroform	<1	<1	<1	<1	<1	<1	<1
Chloromethane	<1	<1	<1	<1	<1	<1	<1
Chloroprene							
Chromium, total	<8	<8	<8	<8	<8	<8	2
Chrysene							
Cis-1,2-dichloroethylene	<1	<1	<1	<1	<1	<1	<1
Cis-1,3-dichloropropene	<1	<1	<1	<1	<1	<1	<1
Cobalt, total	2.1	<.4	.6	.6	3.1	.8	1.3
Copper, total	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<5.0
Cyanide, total							
Delta-bhc							
Diallate							
Dibenzo(a,h)anthracene							
Dibenzofuran							
Dibromochloromethane	<1	<1	<1	<1	<1	<1	<1
Dibromomethane	<1	<1	<1	<1	<1	<1	<1
Dichlorodifluoromethane							
Dieldrin							
Diethyl phthalate							
Dimethoate							
Dimethylphthalate							
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							

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

Table 9

Analytical Data Summary for MW-8

Constituents	Units	3/20/2014	9/15/2014	3/6/2015	8/24/2015	3/1/2016	9/9/2016	10/31/2016	3/22/2017	8/24/2017
Hexachlorobutadiene	ug/L								<8	
Hexachlorocyclopentadiene	ug/L								<8	
Hexachloroethane	ug/L								<8	
Hexachloropropene	ug/L								<8	
Indeno(1,2,3-cd)pyrene	ug/L								<8	
Isobutanol	ug/L								<1000	
Isodrin	ug/L								<8	
Isophorone	ug/L								<8	
Isosafrole	ug/L								<8	
Kepone	ug/L								<8	
Lead, total	ug/L	<4.0	<4.0	4.4	<4.0	<4.0	<4.0		<4.0	<4.0
Mercury, total	ug/L								<.5	
Methacrylonitrile	ug/L								<1	
Methapyrene	ug/L								<8	
Methoxychlor	ug/L								<.05	
Methyl iodide	ug/L	<1	<1	<1	<1	<1	<1		<1	<1
Methyl methacrylate	ug/L								<1	
Methyl methanesulfonate	ug/L								<8	
Methyl parathion	ug/L								<.4	
Methylene chloride	ug/L	<5	<5	<5	<5	<5	<5		<5	<5
Naphthalene	ug/L								<8	
Nickel, total	ug/L	30.3	<4.0	5.0	6.9	5.4	17.4	9.8	5.5	13.7
Nitrobenzene	ug/L								<8	
N-nitrosodiethylamine	ug/L								<8	
N-nitrosodimethylamine	ug/L								<8	
N-nitrosodi-n-butylamine	ug/L								<8	
N-nitroso-di-n-propylamine	ug/L								<8	
N-nitrosodiphenylamine	ug/L								<8	
N-nitrosomethylethylamine	ug/L								<8	
N-nitrosopiperidine	ug/L								<8	
N-nitrosopyrrolidine	ug/L								<8	
O,o,o-triethyl phosphorothioate	ug/L								<.4	
O-toluidine	ug/L								<8	
Parathion	ug/L								<.4	
P-dimethylaminoazobenzene	ug/L								<8	
Pentachlorobenzene	ug/L								<8	
Pentachloronitrobenzene (pcnb)	ug/L								<8	
Pentachlorophenol	ug/L								<8	
Phenacetin	ug/L								<8	
Phenanthrene	ug/L								<8	
Phenol	ug/L								<8	
Phorate	ug/L								<.4	
Pronamide	ug/L								<8	
Propionitrile	ug/L								<10	
Pyrene	ug/L								<8	
Safrole	ug/L								<8	
Selenium, total	ug/L	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0		<4.0	<4.0
Silver, total	ug/L	<4	<4	<4	<4	<4	<4		<4	<4
Solids, total suspended	mg/L									
Styrene	ug/L	<1	<1	<1	<1	<1	<1		<1	<1
Sulfide, total	mg/L								<.1	
Tetrachloroethylene	ug/L	<1	<1	<1	<1	<1	<1		<1	<1
Thallium, total	ug/L	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0		<4.0	<4.0
Thionazin	ug/L								<.4	
Tin, total	ug/L								<20	
Toluene	ug/L	<1	<1	<1	<1	<1	<1		<1	<1
Toxaphene	ug/L								<.2	
Trans-1,2-dichloroethylene	ug/L	<1	<1	<1	<1	<1	<1		<1	<1
Trans-1,3-dichloropropene	ug/L	<1	<1	<1	<1	<1	<1		<1	<1
Trans-1,4-dichloro-2-butene	ug/L	<5	<5	<5	<5	<5	<5		<5	<5
Trichloroethylene	ug/L	<1	<1	<1	<1	<1	<1		<1	<1
Trichlorofluoromethane	ug/L	<1	<1	<1	<1	<1	<1		<1	<1
Vanadium, total	ug/L	<20	<20	<20	<20	<20	<20		<20	<20
Vinyl acetate	ug/L	<5	<5	<5	<5	<5	<5		<5	<5
Vinyl chloride	ug/L	<1	<1	<1	<1	<1	<1		<1	<1
Xylenes, total	ug/L	<2	<2	<2	<2	<2	<2		<2	<2
Zinc, total	ug/L	21.5	13.4	<8.0	<8.0	<8.0	9.2		<8.0	<8.0

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

Table 9

Analytical Data Summary for MW-8

Constituents	2/26/2018	8/29/2018	3/18/2019	9/10/2019	3/25/2020	9/4/2020	3/2/2021	9/2/2021	3/2/2022
Hexachlorobutadiene									<8
Hexachlorocyclopentadiene									<8
Hexachloroethane									<8
Hexachloropropene									<8
Indeno(1,2,3-cd)pyrene									<8
Isobutanol									<1000
Isodrin									<8
Isophorone									<8
Isosafrole									<8
Kepone									<8
Lead, total	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Mercury, total									<.5
Methacrylonitrile									<1
Methapyrene									<8
Methoxychlor									<.05
Methyl iodide	<1	<1	<1	<1	<1	<1	<1	<1	<2
Methyl methacrylate									<1
Methyl methanesulfonate									<8
Methyl parathion									<.4
Methylene chloride	<5	<5	<5	<5	<5	<5	<5	<5	<5
Naphthalene									<8
Nickel, total	7.6	11.8	4.7	14.9	<4.0	9.2	6.0	13.2	4.2
Nitrobenzene									<8
N-nitrosodiethylamine									<8
N-nitrosodimethylamine									<8
N-nitrosodi-n-butylamine									<8
N-nitroso-di-n-propylamine									<8
N-nitrosodiphenylamine									<8
N-nitrosomethylethylamine									<8
N-nitrosopiperidine									<8
N-nitrosopyrrolidine									<8
O,o,o-triethyl phosphorothioate									<.4
O-toluidine									<8
Parathion									<.4
P-dimethylaminoazobenzene									<8
Pentachlorobenzene									<8
Pentachloronitrobenzene (pcnb)									<8
Pentachlorophenol									<8
Phenacetin									<8
Phenanthrene									<8
Phenol									<8
Phorate									<.4
Pronamide									<8
Propionitrile									<10
Pyrene									<8
Safrole									<8
Selenium, total	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Silver, total	<4	<8	<4	<4	<4	<4	<4	<4	<4
Solids, total suspended									
Styrene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Sulfide, total									<.1
Tetrachloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Thallium, total	<4.0	<4.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Thionazin									<.4
Tin, total									<20
Toluene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toxaphene									<.2
Trans-1,2-dichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,3-dichloropropene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,4-dichloro-2-butene	<5	<5	<5	<5	<5	<5	<5	<5	<5
Trichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vanadium, total	<20	<20	<20	<20	<20	<20	<20	<20	<20
Vinyl acetate	<5	<5	<5	<5	<5	<5	<5	<5	<5
Vinyl chloride	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	<2	<2	<2	<2	<2	<2	<2	<2	<2
Zinc, total	<8.0	56.3	<20.0	9.2	<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-8

Constituents	8/29/2022	3/23/2023	9/25/2023	3/5/2024	9/30/2024	3/6/2025	9/17/2025
Hexachlorobutadiene							
Hexachlorocyclopentadiene							
Hexachloroethane							
Hexachloropropene							
Indeno(1,2,3-cd)pyrene							
Isobutanol							
Isodrin							
Isophorone							
Isosafrole							
Kepone							
Lead, total	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<1.0
Mercury, total							
Methacrylonitrile							
Methapyrilene							
Methoxychlor							
Methyl iodide	<1	<1	<1	<1	<1	<1	<1
Methyl methacrylate							
Methyl methanesulfonate							
Methyl parathion							
Methylene chloride	<5	<5	<5	<5	<5	<5	<5
Naphthalene							
Nickel, total	13.5	<4.0	15.2	5.5	13.3	5.4	9.8
Nitrobenzene							
N-nitrosodiethylamine							
N-nitrosodimethylamine							
N-nitrosodi-n-butylamine							
N-nitroso-di-n-propylamine							
N-nitrosodiphenylamine							
N-nitrosomethylethylamine							
N-nitrosopiperidine							
N-nitrosopyrrolidine							
O,o,o-triethyl phosphorothioate							
O-toluidine							
Parathion							
P-dimethylaminoazobenzene							
Pentachlorobenzene							
Pentachloronitrobenzene (pcnb)							
Pentachlorophenol							
Phenacetin							
Phenanthrene							
Phenol							
Phorate							
Pronamide							
Propionitrile							
Pyrene							
Safrole							
Selenium, total	<4.0	8.5	<4.0	<4.0	<4.0	<4.0	<2.0
Silver, total	<4	<4	<4	<4	<4	<4	<5
Solids, total suspended							
Styrene	<1	<1	<1	<1	<1	<1	<1
Sulfide, total							
Tetrachloroethylene	<1	<1	<1	<1	<1	<1	<1
Thallium, total	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<.5
Thionazin							
Tin, total							
Toluene	<1	<1	<1	<1	<1	<1	<1
Toxaphene							
Trans-1,2-dichloroethylene	<1	<1	<1	<1	<1	<1	<1
Trans-1,3-dichloropropene	<1	<1	<1	<1	<1	<1	<1
Trans-1,4-dichloro-2-butene	<5	<5	<5	<5	<5	<5	<5
Trichloroethylene	<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	<1	<1	<1	<1	<1	<1	<1
Vanadium, total	<20	<20	<20	<20	<20	<20	<2
Vinyl acetate	<5	<5	<5	<5	<5	<5	<5
Vinyl chloride	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	<2	<2	<2	<2	<2	<2	<2
Zinc, total	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	6.7

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

Table 9

Analytical Data Summary for SW-3

Constituents	Units	3/20/2014	9/15/2014	8/24/2015	3/1/2016	3/22/2017	3/18/2019	3/25/2020
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-dichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1
1,2,3-trichloropropane	ug/L	<1	<1	<1	<1	<1	<1	<1
1,2-dibromo-3-chloropropane	ug/L	<1	<1	<1	<1	<1	<1	<5
1,2-dibromoethane	ug/L	<1	<1	<1	<1	<1	<1	<1
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
1,4-dichlorobenzene	ug/L	<1	<1	<1	<1	<1	<1	<1
2-butanone (mek)	ug/L	<5	<5	<5	<5	<5	<5	<5
2-hexanone (mbk)	ug/L	<5	<5	<5	<5	<5	<5	<5
4-methyl-2-pentanone (mibk)	ug/L	<5	<5	<5	<5	<5	<5	<5
Acetone	ug/L	<10	<10	<10	<10	<10	<10	<10
Acrylonitrile	ug/L	<5	<5	<5	<5	<5	<5	<5
Antimony, total	ug/L	<2	<2	<2	<2	<2	<2	<2
Arsenic, total	ug/L	<4	<4	<4	<4	<4	<4	<4
Barium, total	ug/L	65.8	204.0	137.0	126.0	188.0	190.0	174.0
Benzene	ug/L	<1	<1	<1	<1	<1	<1	<1
Beryllium, total	ug/L	<4	<4	<4	<4	<4	<4	<4
Bromochloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1
Bromodichloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1
Bromoform	ug/L	<1	<1	<1	<1	<1	<1	<1
Bromomethane	ug/L	<1	<1	<1	<1	<1	<1	<1
Cadmium, total	ug/L	<.8	<.8	<.8	<.8	<.8	<.8	<.8
Carbon disulfide	ug/L	<1	<1	<1	<1	<1	<1	<1
Carbon tetrachloride	ug/L	<1	<1	<1	<1	<1	<1	<1
Chlorobenzene	ug/L	<1	<1	<1	<1	<1	<1	<1
Chloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1
Chloroform	ug/L	<1	<1	<1	<1	<1	<1	<1
Chloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1
Chromium, total	ug/L	<8	<8	<8	<8	<8	<8	<8
Cis-1,2-dichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1
Cis-1,3-dichloropropene	ug/L	<1	<1	<1	<1	<1	<1	<1
Cobalt, total	ug/L	<4.0	<.8	<.8	<.8	<.8	<.8	<.8
Copper, total	ug/L	<4	<4	<4	<4	<4	<4	<4
Dibromochloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1
Dibromomethane	ug/L	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	ug/L	<1	<1	<1	<1	<1	<1	<1
Lead, total	ug/L	<4	<4	<4	<4	<4	<4	<4
Methyl iodide	ug/L	<1	<1	<1	<1	<1	<1	<1
Methylene chloride	ug/L	<5	<5	<5	<5	<5	<5	<5
Nickel, total	ug/L	4.0	<4.0	4.9	<4.0	<4.0	<4.0	<4.0
Selenium, total	ug/L	<4	<4	<4	<4	<4	<4	<4
Silver, total	ug/L	<4	<4	<4	<4	<4	<4	<4
Solids, total suspended	mg/L		<3 *					
Styrene	ug/L	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1
Thallium, total	ug/L	<4	<4	<4	<4	<4	<2	<2
Toluene	ug/L	<1	<1	<1	<1	<1	<1	<1
Trans-1,2-dichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1
Trans-1,3-dichloropropene	ug/L	<1	<1	<1	<1	<1	<1	<1
Trans-1,4-dichloro-2-butene	ug/L	<5	<5	<5	<5	<5	<5	<5
Trichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	ug/L	<1	<1	<1	<1	<1	<1	<1
Vanadium, total	ug/L	<20	<20	<20	<20	<20	<20	<20
Vinyl acetate	ug/L	<5	<5	<5	<5	<5	<5	<5
Vinyl chloride	ug/L	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	ug/L	<2	<2	<2	<2	<2	<2	<2
Zinc, total	ug/L	<8	<8	<8	<8	<8	<20	<20

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

Table 10 – Historic SSI and SSL – ***MW-10***

Table 10
Historic SSI & SSL
Annual Water Quality Report
Tama County Sanitary Landfill
Permit No. 86-SDP-01-72P

KEY:	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)	95% LCL (ug/L)	95% UCL (ug/L)	GWPS Limit (ug/L)
MW 10	Cobalt	3/1/2016	4.9	4.890	8.110	2.8
MW 10	Cobalt	9/9/2016	7.6	4.982	7.768	2.8
MW 10	Cobalt	3/22/2017	8.0	5.253	8.497	2.8
MW 10	Cobalt	8/24/2017	6.7	5.179	8.421	2.8
MW 10	Cobalt	2/26/2018	8.5	6.804	8.596	2.8
MW 10	Cobalt	8/29/2018	9.2	6.859	9.341	2.1
MW 10	Cobalt	3/18/2019	3.9	4.294	9.856	2.1
MW 10	Cobalt	9/10/2019	7.2	4.435	9.965	2.1
MW 10	Cobalt	3/25/2020	8.7	4.439	10.061	2.1
MW 10	Cobalt	9/4/2020	10.0	4.358	10.542	2.1
MW 10	Cobalt	3/2/2021	7.4	6.796	9.854	2.1
MW 10	Cobalt	9/2/2021	10.0	7.561	10.489	2.6
MW 10	Cobalt	3/2/2022	2.5	3.316	11.634	2.6
MW 10	Cobalt	8/29/2022	5.5	2.632	10.068	2.6
MW 10	Cobalt	3/23/2023	1.7	0.505	9.345	2.6
MW 10	Cobalt	9/25/2023	7.1	1.221	7.179	2.6
MW 10	Cobalt	3/5/2024	5.7	2.280	7.720	2.6
MW 10	Cobalt	9/30/2024	5.7	2.311	7.789	2.6
MW 10	Cobalt	3/6/2025	2.5	2.958	7.542	2.6
MW 10	Cobalt	9/17/2025	6.3	3.023	7.077	2.6

Table 11 – Corrective Action Trend Analysis – *MW-10*

Table 11
Corrective Action Trend Analysis
Annual Water Quality Report
Tama County Sanitary Landfill
Permit No. 86-SDP-01-72P

Monitoring Well	Compound	Sample Date	Current Condition	Trend	N	Projected Year to Completion (IAC 113.10(9)"e"
MW 10	Cobalt	3/1/2016	SSL	decreasing	1	2027 - Phase 4 Cell Development
MW 10	Cobalt	9/9/2016	SSL	decreasing	2	2027 - Phase 4 Cell Development
MW 10	Cobalt	3/22/2017	SSL	decreasing	3	2027 - Phase 4 Cell Development
MW 10	Cobalt	8/24/2017	SSL	decreasing	4	2027 - Phase 4 Cell Development
MW 10	Cobalt	2/26/2018	SSL	decreasing	5	2027 - Phase 4 Cell Development
MW 10	Cobalt	8/29/2018	SSL	decreasing	6	2027 - Phase 4 Cell Development
MW 10	Cobalt	3/18/2019	SSL	decreasing	7	2027 - Phase 4 Cell Development
MW 10	Cobalt	9/10/2019	SSL	decreasing	8	2027 - Phase 4 Cell Development
MW 10	Cobalt	3/25/2020	SSL	decreasing	9	2027 - Phase 4 Cell Development
MW 10	Cobalt	9/4/2020	SSL	decreasing	10	2027 - Phase 4 Cell Development
MW 10	Cobalt	3/2/2021	SSL	decreasing	11	2027 - Phase 4 Cell Development
MW 10	Cobalt	9/2/2021	SSL	decreasing	12	2027 - Phase 4 Cell Development
MW 10	Cobalt	3/2/2022	SSL	decreasing	13	2027 - Phase 4 Cell Development
MW 10	Cobalt	8/29/2022	SSL	decreasing	14	2027 - Phase 4 Cell Development
MW 10	Cobalt	3/23/2023	SSL	static	15	2027 - Phase 4 Cell Development
MW 10	Cobalt	9/25/2023	SSL	static	16	2027 - Phase 4 Cell Development
MW 10	Cobalt	3/5/2024	SSL	static	17	2027 - Phase 4 Cell Development
MW 10	Cobalt	9/30/2024	SSL	static	18	2027 - Phase 4 Cell Development
MW 10	Cobalt	3/6/2025	SSL	static	19	2027 - Phase 4 Cell Development
MW 10	Cobalt	9/17/2025	SSL	static	20	2027 - Phase 4 Cell Development

Table 12 – Leachate Thickness Summary

Table 12
Leachate Level Summary
Tama County Sanitary Landfill
2025

Date/Location	Phase 1 (LPZ-102)	Phase 2 East (LPZ-104)	Phase 3 West (LPZ-108)
1/14/2025	2"	3"	3"
2/12/2025	2"	4"	4"
3/6/2025	3"	2"	6.6"
4/15/2025	3"	3"	5"
5/16/2025	2"	2"	4.5"
6/12/2025	4"	3"	4.4"
7/15/2025	5"	5"	5.6"
8/13/2025	4"	5"	6.2"
9/17/2025	8"	5"	9.5"
10/14/2025	6"	4"	6.5"
11/13/2025	6"	4"	6.1"
12/17/2025	6"	5"	6.6"

Table 12A – Groundwater Separation Summary

Table 12A
Groundwater Separation - Active Area
Tama County Sanitary Landfill

Groundwater Underdrain Piezometer

Well		Date of Measurements	
		3/6/2025	9/17/2025
UD-2 (Phase 1)	bottom of waste (feet MSL)	916	916
	FL UD-2 (feet MSL)	910	910
	Measured water level (feet)	0.417	0.33333
	Elevation water in GPZ (feet MSL)	910.417	910.33333
	Minimum Separation (ft)	5.58	5.67

Groundwater Underdrain Piezometer

Well		Date of Measurements	
		3/6/2025	9/17/2025
UD-3 (Phase 2)	bottom of waste (feet MSL)	917	917
	FL UD-3 (feet MSL)	912	912
	Measured water level (feet)	0.1677	0.417
	Elevation water in GPZ (feet MSL)	912.1677	912.417
	Minimum Separation (ft)	4.83	4.58

Groundwater Underdrain Piezometer

Well		Date of Measurements	
		3/6/2025	9/17/2025
UD-4 (Phase 3)	bottom of waste (feet MSL)	914.4	914.4
	FL UD-4 (feet MSL)	909.15	909.15
	Measured water level (feet)	0.25	1.17
	Elevation water in GPZ (feet MSL)	909.4	910.32
	Minimum Separation (ft)	5.00	4.08

Table 13 – Gas Monitoring Summary

Table 13
Annual Methane Gas Evaluation Report
Tama County Sanitary Landfill
2025

Readings are % LEL

Location/Date	3/6/25	6/12/25	9/17/25	12/17/25
A-1*	0	0	0	0
A-2*	0	0	0	0
A-3*	0	0	0	0
A-4*	0	0	0	0
A-5*	0	0	0	0
A-6*	0	0	0	0
A-7*	0	0	0	0
A-8*	0	0	0	0
GP-1	0	0	0	0
GP-2	0	0	0	0
GP-3	0	0	0	0
GP-4	0	0	0	0
GP-5	>100	26	0	0
GP-6	0	0	0	0
<i>MW-20 (step-out to GP-5)</i>	0**	0	0	0
<i>MW-37 (step-out to GP-5)</i>	0**	0	0	0
TL-1 (North Tile)	0	0	0	0
UD-1 (SW-101 Manhole)	0	0	0	0
UD-2 (Phase 1 Piezometer)	>100	62	91.0	51
UD-3 (Phase 2 Piezometer)	0	17	6.5	8
UD-4 (Phase 3 Piezometer)	0	0	0	0
GU Manhole	0	10	16.6	3
SCALEHOUSE	0	0	0	0
SCALE PIT	0	0	0	0
RECYCLING BUILDING	0	0	0	0
SHOP BUILDING	0	0	0	0
STORAGE BUILDING	0	0	0	0

*Explosive gas concentrations were recorded continuously. The concentrations are reported at each referenced location for ease in presentation of data.

** - measured 3/13/2025

>100 = greater than 100% LEL

Appendix A

Monitoring Activities Information (Field Forms)

Tama County Sanitary Landfill
PERMIT # 86-SDP-01-72P

3/6/2025

Sampled by: Glenn Hunter

Weather conditions:Sunny, 30 degrees

IDNR Form 542-1322

Monitoring Well: MW-3A(dg)

Primary Sampling Method:

Secondary Sampling Method:

No-Purge for Appendix I

Purge & Sample for all analytes beyond Appendix I

GENERAL INFORMATION

TOC	976.00
Well Depth	17.56
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	976.00
Well Depth	17.56
Top Screen	968.44
Bottom Screen	958.44
Bottom Well	958.44
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	12.00
Top sample	964.00
Bottom sample	960.00
Turbidity(NTU)	1.68

Date	Time	Water Level	Water Elevator	Notes
3/6/2025	12:11	11.79	964.21	

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		1.68
Appendix I	Metals	150	150		1.68
Appendix I	VOC	240	240		1.68
Full Appendix II	10 more containers	5620			
TSS	TSS	1000			
Supplemental	bis(2-EHP)				
Supplemental					
Total			400	0	

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

TOC	976.00	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	17.56	Before purging	3/6/2025	12:11	11.79	964.21		0.0	
		After purging				976.00			
		Top of Screen after construction				968.44			
						7.56			feet above (+) or below (-) top screen
		Bottom of Well after construction				958.44			
		Bottom of Well	3/6/2025		17.40	958.60			
						0.16			feet sedimentation
		Before Sampling				976.00			
		Recovery				976.00			
		Recovery				976.00			
		Recovery				976.00			
		Recovery				976.00			

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Monitoring Well: MW-8B(dg)

Primary Sampling Method:
Secondary Sampling Method:

No-Purge for Appendix I
Purge & Sample for all analytes beyond Appendix I

GENERAL INFORMATION

TOC	932.21
Well Depth	20.01
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	932.21
Well Depth	20.01
Top Screen	922.20
Bottom Screen	912.20
Bottom Well	912.20
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	14.00
Top sample	918.21
Bottom sample	914.21
Turbidity(NTU)	2.15

Date	Time	Water Level	Water Elevator	Notes
3/6/2025	10:56	10.15	922.06	

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		2.15
Appendix I	Metals	150	150		2.15
Appendix I	VOC	240	240		2.15
Full Appendix II	10 more containers	5620			
TSS	TSS	1000			
Supplemental	bis(2)				
Supplemental					
Total			400	0	

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

TOC	932.21	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	20.01	Before purging	3/6/2025	10:56	10.15	922.06		0.0	
		After purging				932.21			
		Top of Screen after construction				922.20			
						10.01			feet above (+) or below (-) top screen
		Bottom of Well after construction				912.20			
		Bottom of Well	3/6/2025		19.90	912.31			
						0.11			feet sedimentation
		Before Sampling				932.21			
		Recovery				932.21			
		Recovery				932.21			
		Recovery				932.21			
		Recovery				932.21			

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Monitoring Well: MW-10(dg)

Primary Sampling Method:
Secondary Sampling Method:

No-Purge for Appendix I
Purge & Sample for all analytes beyond Appendix I

GENERAL INFORMATION

TOC	952.96
Well Depth	19.92
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	952.96
Well Depth	19.92
Top Screen	943.04
Bottom Screen	933.04
Bottom Well	933.04
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	14.00
Top sample	938.96
Bottom sample	934.96
Turbidity(NTU)	8.53

Date	Time	Water Level	Water Elevator	Notes
3/6/2025	11:11	14.4	938.56	

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		8.53
Appendix I	Metals	150	150		8.53
Appendix I	VOC	240	240		8.53
Full Appendix II	10 more containers	5620			
TSS	TSS	1000			
Supplemental	bis(2)				
Supplemental					
Total			400	0	

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

TOC	952.96	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	19.92	Before purging	3/6/2025	11:11	14.4	938.56		0.0	
		After purging				952.96			
		Top of Screen after construction				943.04			
						9.92			feet above (+) or below (-) top screen
		Bottom of Well after construction				933.04			
		Bottom of Well	3/6/2025		19.90	933.06			
						0.02			feet sedimentation
		Before Sampling				952.96			
		Recovery				952.96			
		Recovery				952.96			
		Recovery				952.96			
		Recovery				952.96			

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Monitoring Well: MW-20(ug)

Primary Sampling Method:
Secondary Sampling Method:

No-Purge for Appendix I
Purge & Sample for all analytes beyond Appendix I

GENERAL INFORMATION

TOC	987.91
Well Depth	25.97
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	987.91
Well Depth	25.97
Top Screen	971.94
Bottom Screen	961.94
Bottom Well	961.94
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	22.00
Top sample	965.91
Bottom sample	961.91
Turbidity(NTU)	19.20

Date	Time	Water Level	Water Elevator	Notes
3/6/2025	10:03	22.11	965.8	

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		19.20
Appendix I	Metals	150	150		19.20
Appendix I	VOC	240	240		19.20
Full Appendix II	10 more containers	5620			
TSS	TSS	1000			
Supplemental	bis(2)				
Supplemental					
Total			400	0	

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

TOC	987.91	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	25.97	Before purging	3/6/2025	10:03	22.11	965.80		0.0	
		After purging				987.91			
		Top of Screen after construction				971.94			
						15.97	feet above (+) or below (-) top screen		
		Bottom of Well after construction				961.94			
		Bottom of Well	3/6/2025		25.9	962.01			
						0.07	feet sedimentation		
		Before Sampling				987.91			
		Recovery				987.91			
		Recovery				987.91			
		Recovery				987.91			
		Recovery				987.91			

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Monitoring Well: MW-26(ug)

Primary Sampling Method:
Secondary Sampling Method:

No-Purge for Appendix I
Purge & Sample for all analytes beyond Appendix I

GENERAL INFORMATION

TOC	914.95
Well Depth	20.34
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	914.95
Well Depth	20.34
Top Screen	904.61
Bottom Screen	894.61
Bottom Well	894.61
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	14.00
Top sample	900.95
Bottom sample	896.95
Turbidity(NTU)	1.10

Date	Time	Water Level	Water Elevator	Notes
3/6/2025	10:28	4:04	904.78	

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		1.10
Appendix I	Metals	150	150		1.10
Appendix I	VOC	240	240		1.10
Full Appendix II	10 more containers	5620			
TSS	TSS	1000			
Supplemental	bis(2)				
Supplemental					
Total			400	0	

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

TOC	914.95	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	20.34	Before purging	3/6/2025	10:28	10.17	904.78		0.0	
		After purging				914.95			
		Top of Screen after construction				904.61			
						10.34	feet above (+) or below (-) top screen		
		Bottom of Well after construction				894.61			
		Bottom of Well	3/6/2025		19.90	895.05			
						0.44	feet sedimentation		
		Before Sampling				914.95			
		Recovery				914.95			
		Recovery				914.95			
		Recovery				914.95			
		Recovery				914.95			

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Monitoring Well: MW-27 (dg)

Primary Sampling Method:
Secondary Sampling Method:

No-Purge for Appendix I
Purge & Sample for all analytes beyond Appendix I

GENERAL INFORMATION

TOC	932.89
Well Depth	27.69
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	932.89
Well Depth	27.69
Top Screen	915.20
Bottom Screen	905.20
Bottom Well	905.20
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	21.00
Top sample	911.89
Bottom sample	907.89
Turbidity(NTU)	1.06

Date	Time	Water Level	Water Elevator	Notes
3/6/2025	11:32	14.19	918.7	

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		1.06
Appendix I	Metals	150	150		1.06
Appendix I	VOC	240	240		1.06
Full Appendix II	10 more containers	5620			
TSS	TSS	1000			
Supplemental	bis(2)				
Supplemental					
Total			400	0	

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

TOC	932.89	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	27.69	Before purging	3/6/2025	11:32	14.19	918.70		0.0	
		After purging				932.89			
		Top of Screen after construction				915.20			
						17.69	feet above (+) or below (-) top screen		
		Bottom of Well after construction				905.20			
		Bottom of Well	3/6/2025		27.50	905.39			
						0.19	feet sedimentation		
		Before Sampling				932.89			
		Recovery				932.89			
		Recovery				932.89			
		Recovery				932.89			
		Recovery				932.89			

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Monitoring Well: MW-33 (dg)

Primary Sampling Method:
Secondary Sampling Method:

No-Purge for Appendix I
Purge & Sample for all analytes beyond Appendix I

GENERAL INFORMATION

TOC	950.02
Well Depth	22.27
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	950.02
Well Depth	22.27
Top Screen	937.75
Bottom Screen	927.75
Bottom Well	927.75
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	15.00
Top sample	935.02
Bottom sample	931.02
Turbidity(NTU)	4.56

Date	Time	Water Level	Water Elevator	Notes
3/6/2025	10:43	14.7	935.32	

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		4.56
Appendix I	Metals	150	150		4.56
Appendix I	VOC	240	240		4.56
Full Appendix II	10 more containers	5620			
TSS	TSS	1000			
Supplemental	bis(2)				
Supplemental					
Total			400	0	

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

TOC	950.02	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	22.27	Before purging	3/6/2025	10:43	14.7	935.32		0.0	
		After purging				950.02			
		Top of Screen after construction				937.75			
						12.27	feet above (+) or below (-) top screen		
		Bottom of Well after construction				927.75			
		Bottom of Well	3/6/2025		21.60	928.42			
						0.67	feet sedimentation		
		Before Sampling				950.02			
		Recovery				950.02			
		Recovery				950.02			
		Recovery				950.02			
		Recovery				950.02			

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Monitoring Well: MW-34 (dg)

Primary Sampling Method:
Secondary Sampling Method:

No-Purge for Appendix I
Purge & Sample for all analytes beyond Appendix I

GENERAL INFORMATION

TOC	969.61
Well Depth	17.69
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	969.61
Well Depth	17.69
Top Screen	961.92
Bottom Screen	951.92
Bottom Well	951.92
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	11.00
Top sample	958.61
Bottom sample	954.61
Turbidity(NTU)	2.83

Date	Time	Water Level	Water Elevator	Notes
3/6/2025	12:00	7.49	962.12	

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		2.83
Appendix I	Metals	150	150		2.83
Appendix I	VOC	240	240		2.83
Full Appendix II	10 more containers	5620			
TSS	TSS	1000			
Supplemental	bis(2)				
Supplemental					
Total			400	0	

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

TOC	969.61	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	17.69	Before purging	3/6/2025	12:00	7.49	962.12		0.0	
		After purging				969.61			
		Top of Screen after construction				961.92			
						7.69	feet above (+) or below (-) top screen		
		Bottom of Well after construction				951.92			
		Bottom of Well	3/6/2025		17.40	952.21			
						0.29	feet sedimentation		
		Before Sampling				969.61			
		Recovery				969.61			
		Recovery				969.61			
		Recovery				969.61			
		Recovery				969.61			

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Monitoring Well: MW-35 (dg)

Primary Sampling Method:
Secondary Sampling Method:

No-Purge for Appendix I
Purge & Sample for all analytes beyond Appendix I

GENERAL INFORMATION

TOC	974.02
Well Depth	22.99
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	974.02
Well Depth	22.99
Top Screen	961.03
Bottom Screen	951.03
Bottom Well	951.03
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	16.00
Top sample	958.02
Bottom sample	954.02
Turbidity(NTU)	1.05

Date	Time	Water Level	Water Elevator	Notes
3/6/2025	12:22	7	967.02	

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		1.05
Appendix I	Metals	150	150		1.05
Appendix I	VOC	240	240		1.05
Full Appendix II	10 more containers	5620			
TSS	TSS	1000			
Supplemental	bis(2)				
Supplemental	cyanide				
Total			400	0	

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

TOC	974.02	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	22.99	Before purging	3/6/2025	12:22	7	967.02		0.0	
		After purging				974.02			
		Top of Screen after construction				961.03			
						12.99	feet above (+) or below (-) top screen		
		Bottom of Well after construction				951.03			
		Bottom of Well	3/6/2025		22.50	951.52			
						0.49	feet sedimentation		
		Before Sampling				974.02			
		Recovery				974.02			
		Recovery				974.02			
		Recovery				974.02			
		Recovery				974.02			

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Monitoring Well: MW-36 (dg)

Primary Sampling Method:
Secondary Sampling Method:

No-Purge for Appendix I
Purge & Sample for all analytes beyond Appendix I

GENERAL INFORMATION

TOC	977.15
Well Depth	27.89
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	977.15
Well Depth	27.89
Top Screen	959.26
Bottom Screen	949.26
Bottom Well	949.26
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	21.00
Top sample	956.15
Bottom sample	952.15
Turbidity(NTU)	0.45

Date	Time	Water Level	Water Elevator	Notes
3/6/2025	12:34	15.07	962.08	

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		0.45
Appendix I	Metals	150	150		0.45
Appendix I	VOC	240	240		0.45
Full Appendix II	10 more containers	5620			
TSS	TSS	1000			
Supplemental	bis(2)				
Supplemental					
Total			400	0	

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

TOC	977.15	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	27.89	Before purging	3/6/2025	12:34	15.07	962.08		0.0	
		After purging				977.15			
		Top of Screen after construction				959.26			
						17.89	feet above (+) or below (-) top screen		
		Bottom of Well after construction				949.26			
		Bottom of Well	3/6/2025		27.15	950.00			
						0.74	feet sedimentation		
		Before Sampling				977.15			
		Recovery				977.15			
		Recovery				977.15			
		Recovery				977.15			
		Recovery				977.15			

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Monitoring Well: MW-37 (ug)

Primary Sampling Method:
Secondary Sampling Method:

No-Purge for Appendix I
Purge & Sample for all analytes beyond Appendix I

GENERAL INFORMATION

TOC	978.74
Well Depth	20.65
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	978.74
Well Depth	20.65
Top Screen	968.09
Bottom Screen	958.09
Bottom Well	958.09
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	14.00
Top sample	964.74
Bottom sample	960.74
Turbidity(NTU)	3.28

Date	Time	Water Level	Water Elevator	Notes
3/6/2025	10:14	13.62	965.12	

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		3.28
Appendix I	Metals	150	150		3.28
Appendix I	VOC	240	240		3.28
Full Appendix II	10 more containers	5620			
TSS	TSS	1000			
Supplemental	bis(2)				
Supplemental					
Total			400	0	

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

TOC	978.74	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	20.65	Before purging	3/6/2025	10:14	13.62	963.53		0.0	
		After purging				977.15			
		Top of Screen after construction				968.09			
						9.06	feet above (+) or below (-) top screen		
		Bottom of Well after construction				958.09			
		Bottom of Well	3/6/2025		20.20	958.54			
						0.45	feet sedimentation		
		Before Sampling				977.15			
		Recovery				977.15			
		Recovery				977.15			
		Recovery				977.15			
		Recovery				977.15			

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Monitoring Well: PZ-11(dg)

Primary Sampling Method:
Secondary Sampling Method:

No-Purge for Appendix I
Purge & Sample for all analytes beyond Appendix I

GENERAL INFORMATION

TOC	952.92
Well Depth	45.50
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	952.92
Well Depth	45.25
Top Screen	912.42
Bottom Screen	907.42
Bottom Well	907.42
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	36.00
Top sample	916.92
Bottom sample	912.92
Turbidity(NTU)	1.10

Date	Time	Water Level	Water Elevatio	Notes
3/6/2025	11:17	34.82	918.1	

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		1.10
Appendix I	Metals	150	150		1.10
Appendix I	VOC	240	240		1.1
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	952.92	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	45.50	Before purging	3/6/2025	11:17	34.82	918.10		0.0	
		After purging				952.96			
		Top of Screen after construction				912.42			
						40.54			feet above (+) or below (-) top screen
		Bottom of Well after construction				907.42			
		Bottom of Well	3/6/2025		45.25	907.71			
						0.29			feet sedimentation
		Before Sampling				952.96			
		Recovery	3/5/2024			952.96			
		Recovery	3/5/2024			952.96			
		Recovery				952.96			
		Recovery				952.96			

Tama County Sanitary Landfill
PERMIT # 86-SDP-01-72P

3/6/2025 Sampled by: Glenn Hunter Weather conditions:Sunny, 30 degrees

IDNR Form 542-1324

SW-3 (dg)

Date	Time	Type	Flowing	Quantity		Discolored	Odor	Litter
3/6/2025		Open tile	Dry	Dry		No	No	No
								Turbidity(NTU)

Tama County Sanitary Landfill
PERMIT # 86-SDP-01-72P

9/17/2025

Sampled by: Glenn Hunter

Weather conditions: Hazy, 72 degrees

IDNR Form 542-1322

Monitoring Well: MW-3A(dg)

Primary Sampling Method:
Secondary Sampling Method:

No-Purge for Appendix I
Purge & Sample for all analytes beyond Appendix I

GENERAL INFORMATION

TOC	976.00
Well Depth	17.56
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	976.00
Well Depth	17.56
Top Screen	968.44
Bottom Screen	958.44
Bottom Well	958.44
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	11.00
Top sample	965.00
Bottom sample	961.00
Turbidity(NTU)	1.79

Date	Time	Water Level	Water Elevator	Notes
9/17/2025	11:56	9.61	966.39	

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		1.79
Appendix I	Metals	150	150		1.79
Appendix I	VOC	240	240		1.79
Full Appendix II	10 more containers	5620			
TSS	TSS	1000			
Supplemental	bis(2-EHP)				
Supplemental					
Total			400	0	

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

TOC	976.00	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	17.56	Before purging	9/17/2025	11:56	9.61	966.39		0.0	
		After purging				976.00			
		Top of Screen after construction				968.44			
						7.56			feet above (+) or below (-) top screen
		Bottom of Well after construction				958.44			
		Bottom of Well	9/17/2025		17.40	958.60			
						0.16			feet sedimentation
		Before Sampling				976.00			
		Recovery				976.00			
		Recovery				976.00			
		Recovery				976.00			
		Recovery				976.00			

IDNR Form 542-1322

Monitoring Well: MW-8B(dg)

Primary Sampling Method:
Secondary Sampling Method:

No-Purge for Appendix I
Purge & Sample for all analytes beyond Appendix I

GENERAL INFORMATION

TOC	932.21
Well Depth	20.01
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	932.21
Well Depth	20.01
Top Screen	922.20
Bottom Screen	912.20
Bottom Well	912.20
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	14.00
Top sample	918.21
Bottom sample	914.21
Turbidity(NTU)	6.43

Date	Time	Water Level	Water Elevator	Notes
9/17/2025	10:24	10.72	921.49	

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		6.43
Appendix I	Metals	150	150		6.43
Appendix I	VOC	240	240		6.43
Full Appendix II	10 more containers	5620			
TSS	TSS	1000			
Supplemental	bis(2)				
Supplemental					
Total			400	0	

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

TOC	932.21	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	20.01	Before purging	9/17/2025	10:24	10.72	921.49		0.0	
		After purging				932.21			
		Top of Screen after construction				922.20			
						10.01			feet above (+) or below (-) top screen
		Bottom of Well after construction				912.20			
		Bottom of Well	9/17/2025		19.90	912.31			
						0.11			feet sedimentation
		Before Sampling				932.21			
		Recovery				932.21			
		Recovery				932.21			
		Recovery				932.21			
		Recovery				932.21			

IDNR Form 542-1322

Monitoring Well: MW-10(dg)

Primary Sampling Method:
Secondary Sampling Method:

No-Purge for Appendix I
Purge & Sample for all analytes beyond Appendix I

GENERAL INFORMATION

TOC	952.96
Well Depth	19.92
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	952.96
Well Depth	19.92
Top Screen	943.04
Bottom Screen	933.04
Bottom Well	933.04
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	14.00
Top sample	938.96
Bottom sample	934.96
Turbidity(NTU)	5.21

Date	Time	Water Level	Water Elevator	Notes
9/17/2025	10:39	10.54	942.42	

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		5.21
Appendix I	Metals	150	150		5.21
Appendix I	VOC	240	240		5.21
Full Appendix II	10 more containers	5620			
TSS	TSS	1000			
Supplemental	bis(2)				
Supplemental					
Total			400	0	

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

TOC	952.96	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	19.92	Before purging	9/17/2025	10:39	10.54	942.42		0.0	
		After purging				952.96			
		Top of Screen after construction				943.04			
						9.92	feet above (+) or below (-) top screen		
		Bottom of Well after construction				933.04			
		Bottom of Well	9/17/2025		19.90	933.06			
						0.02	feet sedimentation		
		Before Sampling				952.96			
		Recovery				952.96			
		Recovery				952.96			
		Recovery				952.96			
		Recovery				952.96			

IDNR Form 542-1322

Monitoring Well: MW-20(ug)

Primary Sampling Method:
Secondary Sampling Method:

No-Purge for Appendix I
Purge & Sample for all analytes beyond Appendix I

GENERAL INFORMATION

TOC	987.91
Well Depth	25.97
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	987.91
Well Depth	25.97
Top Screen	971.94
Bottom Screen	961.94
Bottom Well	961.94
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	19.00
Top sample	968.91
Bottom sample	964.91
Turbidity(NTU)	1.48

Date	Time	Water Level	Water Elevator	Notes
9/17/2025	9:34	16.71	971.2	

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		1.48
Appendix I	Metals	150	150		1.48
Appendix I	VOC	240	240		1.48
Full Appendix II	10 more containers	5620			
TSS	TSS	1000			
Supplemental	bis(2)				
Supplemental					
Total			400	0	

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

TOC	987.91	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	25.97	Before purging	9/17/2025	9:34	16.71	971.20		0.0	
		After purging				987.91			
		Top of Screen after construction				971.94			
						15.97	feet above (+) or below (-) top screen		
		Bottom of Well after construction				961.94			
		Bottom of Well	9/17/2025		25.9	962.01			
						0.07	feet sedimentation		
		Before Sampling				987.91			
		Recovery				987.91			
		Recovery				987.91			
		Recovery				987.91			
		Recovery				987.91			

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Monitoring Well: MW-26(ug)

Primary Sampling Method:
Secondary Sampling Method:

No-Purge for Appendix I
Purge & Sample for all analytes beyond Appendix I

GENERAL INFORMATION

TOC	914.95
Well Depth	20.34
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	914.95
Well Depth	20.34
Top Screen	904.61
Bottom Screen	894.61
Bottom Well	894.61
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	14.00
Top sample	900.95
Bottom sample	896.95
Turbidity(NTU)	0.61

Date	Time	Water Level	Water Elevator	Notes
9/17/2025	9:58	10.56	904.39	

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		0.61
Appendix I	Metals	150	150		0.61
Appendix I	VOC	240	240		0.61
Full Appendix II	10 more containers	5620			
TSS	TSS	1000			
Supplemental	bis(2)				
Supplemental					
Total			400	0	

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

TOC	914.95	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	20.34	Before purging	9/17/2025	9:58	10.56	904.39		0.0	
		After purging				914.95			
		Top of Screen after construction				904.61			
						10.34	feet above (+) or below (-) top screen		
		Bottom of Well after construction				894.61			
		Bottom of Well	9/17/2025		19.90	895.05			
						0.44	feet sedimentation		
		Before Sampling				914.95			
		Recovery				914.95			
		Recovery				914.95			
		Recovery				914.95			
		Recovery				914.95			

IDNR Form 542-1322

Monitoring Well: MW-27 (dg)

Primary Sampling Method:
Secondary Sampling Method:

No-Purge for Appendix I
Purge & Sample for all analytes beyond Appendix I

GENERAL INFORMATION

TOC	932.89
Well Depth	27.69
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	932.89
Well Depth	27.69
Top Screen	915.20
Bottom Screen	905.20
Bottom Well	905.20
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	21.00
Top sample	911.89
Bottom sample	907.89
Turbidity(NTU)	0.84

Date	Time	Water Level	Water Elevator	Notes
9/17/2025	11:00	10.14	922.75	

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		0.84
Appendix I	Metals	150	150		0.84
Appendix I	VOC	240	240		0.84
Full Appendix II	10 more containers	5620			
TSS	TSS	1000			
Supplemental	bis(2)				
Supplemental					
Total			400	0	

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

TOC	932.89	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	27.69	Before purging	9/17/2025	11:00	10.14	922.75		0.0	
		After purging				932.89			
		Top of Screen after construction				915.20			
						17.69			feet above (+) or below (-) top screen
		Bottom of Well after construction				905.20			
		Bottom of Well	9/17/2025		27.50	905.39			
						0.19			feet sedimentation
		Before Sampling				932.89			
		Recovery				932.89			
		Recovery				932.89			
		Recovery				932.89			
		Recovery				932.89			

IDNR Form 542-1322

Monitoring Well: MW-33 (dg)

Primary Sampling Method:
Secondary Sampling Method:

No-Purge for Appendix I
Purge & Sample for all analytes beyond Appendix I

GENERAL INFORMATION

TOC	950.02
Well Depth	22.27
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	950.02
Well Depth	22.27
Top Screen	937.75
Bottom Screen	927.75
Bottom Well	927.75
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	15.00
Top sample	935.02
Bottom sample	931.02
Turbidity(NTU)	1.09

Date	Time	Water Level	Water Elevator	Notes
9/17/2025	10:12	12	938.02	

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		1.09
Appendix I	Metals	150	150		1.09
Appendix I	VOC	240	240		1.09
Full Appendix II	10 more containers	5620			
TSS	TSS	1000			
Supplemental	bis(2)				
Supplemental					
Total			400	0	

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

TOC	950.02	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	22.27	Before purging	9/17/2025	10:12	12	938.02		0.0	
		After purging				950.02			
		Top of Screen after construction				937.75			
						12.27			feet above (+) or below (-) top screen
		Bottom of Well after construction				927.75			
		Bottom of Well	9/17/2025		21.60	928.42			
						0.67			feet sedimentation
		Before Sampling				950.02			
		Recovery				950.02			
		Recovery				950.02			
		Recovery				950.02			
		Recovery				950.02			

IDNR Form 542-1322

Monitoring Well: MW-34 (dg)

Primary Sampling Method:
Secondary Sampling Method:

No-Purge for Appendix I
Purge & Sample for all analytes beyond Appendix I

GENERAL INFORMATION

TOC	969.61
Well Depth	17.69
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	969.61
Well Depth	17.69
Top Screen	961.92
Bottom Screen	951.92
Bottom Well	951.92
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	11.00
Top sample	958.61
Bottom sample	954.61
Turbidity(NTU)	1.52

Date	Time	Water Level	Water Elevator	Notes
9/17/2025	11:21	9.37	960.24	

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		1.52
Appendix I	Metals	150	150		1.52
Appendix I	VOC	240	240		1.52
Full Appendix II	10 more containers	5620			
TSS	TSS	1000			
Supplemental	bis(2)				
Supplemental					
Total			400	0	

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

TOC	969.61	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	17.69	Before purging	9/17/2025	11:21	9.37	960.24		0.0	
		After purging				969.61			
		Top of Screen after construction				961.92			
						7.69	feet above (+) or below (-) top screen		
		Bottom of Well after construction				951.92			
		Bottom of Well	9/17/2025		17.40	952.21			
						0.29	feet sedimentation		
		Before Sampling				969.61			
		Recovery				969.61			
		Recovery				969.61			
		Recovery				969.61			
		Recovery				969.61			

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Monitoring Well: MW-35 (dg)

Primary Sampling Method:
Secondary Sampling Method:

No-Purge for Appendix I
Purge & Sample for all analytes beyond Appendix I

GENERAL INFORMATION

TOC	974.02
Well Depth	22.99
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	974.02
Well Depth	22.99
Top Screen	961.03
Bottom Screen	951.03
Bottom Well	951.03
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	16.00
Top sample	958.02
Bottom sample	954.02
Turbidity(NTU)	0.80

Date	Time	Water Level	Water Elevator	Notes
9/17/2025	12:07	8.09	965.93	

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		0.80
Appendix I	Metals	150	150		0.80
Appendix I	VOC	240	240		0.80
Full Appendix II	10 more containers	5620			
TSS	TSS	1000			
Supplemental	bis(2)				
Supplemental	cyanide				
Total			400	0	

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

TOC	974.02	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	22.99	Before purging	9/17/2025	12:07	8.09	965.93		0.0	
		After purging				974.02			
		Top of Screen after construction				961.03			
						12.99	feet above (+) or below (-) top screen		
		Bottom of Well after construction				951.03			
		Bottom of Well	9/17/2025		22.50	951.52			
						0.49	feet sedimentation		
		Before Sampling				974.02			
		Recovery				974.02			
		Recovery				974.02			
		Recovery				974.02			
		Recovery				974.02			

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Monitoring Well: MW-36 (dg)

Primary Sampling Method:
Secondary Sampling Method:

No-Purge for Appendix I
Purge & Sample for all analytes beyond Appendix I

GENERAL INFORMATION

TOC	977.15
Well Depth	27.89
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	977.15
Well Depth	27.89
Top Screen	959.26
Bottom Screen	949.26
Bottom Well	949.26
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	21.00
Top sample	956.15
Bottom sample	952.15
Turbidity(NTU)	0.64

Date	Time	Water Level	Water Elevator	Notes
9/17/2025	12:19	14.95	962.2	

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		0.64
Appendix I	Metals	150	150		0.64
Appendix I	VOC	240	240		0.64
Full Appendix II	10 more containers	5620			
TSS	TSS	1000			
Supplemental	bis(2)				
Supplemental					
Total			400	0	

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

TOC	977.15	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	27.89	Before purging	9/17/2025	12:19	14.95	962.20		0.0	
		After purging				977.15			
		Top of Screen after construction				959.26			
						17.89	feet above (+) or below (-) top screen		
		Bottom of Well after construction				949.26			
		Bottom of Well	9/17/2025		27.15	950.00			
						0.74	feet sedimentation		
		Before Sampling				977.15			
		Recovery				977.15			
		Recovery				977.15			
		Recovery				977.15			
		Recovery				977.15			

IDNR Form 542-1322

Monitoring Well: MW-37 (ug)

Primary Sampling Method:
Secondary Sampling Method:

No-Purge for Appendix I
Purge & Sample for all analytes beyond Appendix I

GENERAL INFORMATION

TOC	978.74
Well Depth	20.65
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	978.74
Well Depth	20.65
Top Screen	968.09
Bottom Screen	958.09
Bottom Well	958.09
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	14.00
Top sample	964.74
Bottom sample	960.74
Turbidity(NTU)	1.95

Date	Time	Water Level	Water Elevator	Notes
9/17/2025	9:44	10.55	968.19	

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		1.95
Appendix I	Metals	150	150		1.95
Appendix I	VOC	240	240		1.95
Full Appendix II	10 more containers	5620			
TSS	TSS	1000			
Supplemental	bis(2)				
Supplemental					
Total			400	0	

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

TOC	978.74	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	20.65	Before purging	9/17/2025	9:44	10.55	966.60		0.0	
		After purging				977.15			
		Top of Screen after construction				968.09			
						9.06	feet above (+) or below (-) top screen		
		Bottom of Well after construction				958.09			
		Bottom of Well	9/17/2025		20.20	958.54			
						0.45	feet sedimentation		
		Before Sampling				977.15			
		Recovery				977.15			
		Recovery				977.15			
		Recovery				977.15			
		Recovery				977.15			

IDNR Form 542-1322

Monitoring Well: PZ-11(dg)

Primary Sampling Method:
Secondary Sampling Method:

No-Purge for Appendix I
Purge & Sample for all analytes beyond Appendix I

GENERAL INFORMATION

TOC	952.92
Well Depth	45.50
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	952.92
Well Depth	45.25
Top Screen	912.42
Bottom Screen	907.42
Bottom Well	907.42
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	36.00
Top sample	916.92
Bottom sample	912.92
Turbidity(NTU)	1.54

Date	Time	Water Level	Water Elevator	Notes
9/17/2025	10:43	35.78	917.14	

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		1.54
Appendix I	Metals	150	150		1.54
Appendix I	VOC	240	240		1.54
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	952.92	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	45.50	Before purging	9/17/2025	10:43	35.78	917.14		0.0	
		After purging				952.96			
		Top of Screen after construction				912.42			
						40.54			feet above (+) or below (-) top screen
		Bottom of Well after construction				907.42			
		Bottom of Well	9/17/2025		45.25	907.71			
						0.29			feet sedimentation
		Before Sampling				952.96			
		Recovery	3/5/2024			952.96			
		Recovery	3/5/2024			952.96			
		Recovery				952.96			
		Recovery				952.96			

Tama County Sanitary Landfill
PERMIT # 86-SDP-01-72P

9/17/2025 Sampled by: Glenn Hunter Weather conditions: Hazy, 72 degrees

IDNR Form 542-1324

SW-3 (dg)

Date	Time	Type	Flowing	Quantity		Discolored	Odor	Litter
9/17/2025		Open tile	Dry	Dry		No	No	No
								Turbidity(NTU)

Appendix B

Assessment Monitoring Detection Summary Tables

Assessment Monitoring Compound Detections

Date	bis(2-ethylhexyl)phthalate (ug/L)						
	MW-3A	MW-8	MW-10	MW-27	MW-34	MW-35	MW-36
7/26/10	NT	NT	<8	NT	NT	NT	NT
3/29/11	NT	<8	NT	NT	NT	NT	NT
3/8/12	NT	25.0	<8	NT	NT	NT	NT
10/30/12	NT	<8	NT	NT	24.0	<8	NT
3/26/13	NT	<10	NT	NT	<8	<8	NT
5/17/13	NT	<10	NT	NT	NT	<10	NT
7/9/13	NT	NT	NT	NT	NT	36.0	NT
9/25/13	NT	10.0	NT	NT	NT	<10	NT
3/19/14	NT	<10	NT	NT	<10	<10	NT
8/20/14	NT	NT	NT	NT	14.0	NT	NT
9/15/14	NT	<10	NT	NT	36.0	20.0	NT
3/6/15	NT	25.0	NT	NT	<10	<10	NT
8/24/15	NT	<10	NT	NT	13.0	13.0	NT
3/1/16	NT	<10	NT	NT	<10	<10	NT
9/9/16	NT	<10	NT	NT	<10	<10	NT
3/22/17	<8	<8	<8	<8	<10	<10	<8
8/24/17	NT	35.0	NT	NT	<6	15.0	NT
2/26/18	193	262	NT	71.0	145	<6	<6
8/29/18	<6	24	NT	<6	<6	7.0	NT
3/18/19	<6	<6	NT	13.0	<6	<6	NT
9/10/19	<6	<6	NT	<6	46.0	<6	NT
3/25/20	<6	<6	NT	<6	<6	<6	NT
9/4/20	<6	<6	NT	<6	<6	<6	NT
3/2/21	<6	<6	NT	<6	<6	<6	NT
9/2/21	NT	NT	NT	NT	NT	NT	NT
3/2/22	<6	<6	<6	<6	8.0	<6	NT
8/29/22	NT	NT	NT	NT	<6	NT	NT
3/23/23	8.0	NT	NT	<6	<6	<6	<6
9/25/23	Dry	NT	NT	NT	NT	NT	NT
3/5/24	<6	NT	NT	NT	NT	NT	NT
9/30/24	NT	NT	NT	NT	NT	NT	NT
3/6/2025	NT	NT	NT	NT	NT	NT	NT
9/17/2025	NT	NT	NT	NT	NT	NT	NT

Date	Dichlorodifluoromethane (ug/L)						
	MW-3A	MW-8	MW-10	MW-27	MW-34	MW-35	MW-36
7/26/10	NT	NT	<1.0	NT	NT	NT	NT
3/29/11	NT	<1.0	NT	NT	NT	NT	NT
3/8/12	NT	<1.0	<1.0	NT	NT	NT	NT
10/30/12	NT	NT	NT	NT	3.7	<1.0	NT
3/26/13	NT	NT	NT	NT	<1.0	1.7	NT
5/17/13	NT	NT	NT	NT	NT	2.0	NT
7/9/13	NT	NT	NT	NT	NT	1.5	NT
9/25/13	NT	NT	NT	NT	NT	7.4	NT
3/19/14	NT	NT	NT	NT	<1.0	3.5	NT
8/20/14	NT	NT	NT	NT	<1.0	NT	NT
9/15/14	NT	NT	NT	NT	<1.0	2.3	NT
3/6/15	NT	NT	NT	NT	<1.0	7.0	NT
8/24/15	NT	NT	NT	NT	<1.0	<1.0	NT
3/1/16	NT	NT	NT	NT	<1.0	5.9	NT
9/9/16	NT	NT	NT	NT	<1.0	4.3	NT
3/22/17	<1.0	<1.0	<1.0	<1.0	<1.0	3.4	<1.0
8/24/17	NT	NT	NT	NT	<1.0	3.1	NT
2/26/18	<1.0	NT	NT	<1.0	<1.0	2.1	<1.0
8/29/18	NT	NT	NT	NT	<1.0	1.8	NT
3/18/19	NT	NT	NT	NT	<1.0	1.1	NT
9/10/19	NT	NT	NT	NT	<1.0	1.5	NT
3/25/20	NT	NT	NT	NT	NT	2.1	NT
9/4/20	NT	NT	NT	NT	NT	<1.0	NT
3/2/21	NT	NT	NT	NT	NT	<1.0	NT
9/2/21	NT	NT	NT	NT	NT	<1.0	NT
3/2/22	NT	<1.0	<1.0	NT	NT	1.5	NT
8/29/22	NT	NT	NT	NT	NT	1.5	NT
3/23/23	<1.0	NT	NT	<1.0	<1.0	<1.0	<1.0
9/25/23	Dry	NT	NT	NT	NT	NT	NT
3/5/24	NT	NT	NT	NT	NT	1.2	NT
9/30/24	NT	NT	NT	NT	NT	1.2	NT
3/6/2025	NT	NT	NT	NT	NT	NT	NT
9/17/2025	NT	NT	NT	NT	NT	NT	NT

Date	Cyanide (ug/L)						
	MW-3A	MW-8	MW-10	MW-27	MW-34	MW-35	MW-36
7/26/10	NT	NT	<7	NT	NT	NT	NT
3/29/11	NT	<7	NT	NT	NT	NT	NT
3/8/12	NT	<7	<7	NT	NT	NT	NT
10/30/12	NT	NT	NT	NT	<7	<7	NT
3/26/13	NT	NT	NT	NT	<7	<7	NT
5/17/13	NT	NT	NT	NT	NT	NT	NT
7/9/13	NT	NT	NT	NT	NT	NT	NT
9/25/13	NT	NT	NT	NT	NT	NT	NT
3/19/14	NT	NT	NT	NT	NT	NT	NT
8/20/14	NT	NT	NT	NT	NT	NT	NT
9/15/14	NT	NT	NT	NT	NT	NT	NT
3/6/15	NT	NT	NT	NT	NT	NT	NT
8/24/15	NT	NT	NT	NT	NT	NT	NT
3/1/16	NT	NT	NT	NT	NT	NT	NT
9/9/16	NT	NT	NT	NT	NT	NT	NT
3/22/17	<5	<5	<5	<5	NT	NT	<5
8/24/17	NT	NT	NT	NT	NT	NT	NT
2/26/18	<5	NT	NT	<5	<5	12.0	<5
8/29/18	NT	NT	NT	NT	NT	9.0	NT
3/18/19	NT	NT	NT	NT	NT	<5	NT
9/10/19	NT	NT	NT	NT	NT	<5	NT
3/25/20	NT	NT	NT	NT	NT	<5	NT
9/4/20	NT	NT	NT	NT	NT	<5	NT
3/2/21	NT	NT	NT	NT	NT	<5	NT
9/2/21	NT	NT	NT	NT	NT	NT	NT
3/2/22	NT	<5	<5	NT	NT	<5	NT
8/29/22	NT	NT	NT	NT	NT	NT	NT
3/23/23	<5	NT	NT	<5	<5	<5	<5
9/25/23	Dry	NT	NT	NT	NT	NT	NT
3/5/24	NT	NT	NT	NT	NT	NT	NT
9/30/24	NT	NT	NT	NT	NT	NT	NT
3/6/2025	NT	NT	NT	NT	NT	NT	NT
9/17/2025	NT	NT	NT	NT	NT	NT	NT

Appendix C

Statistical Report

Appendix C.1 –Spring Statistical Evaluation

GROUND WATER STATISTICS
FOR THE
TAMA COUNTY SANITARY LANDFILL

First Semi-Annual Monitoring Event in 2025

Prepared for:
Tama County Sanitary Landfill
2872 K Avenue
Toledo, Tama County, IA

Prepared by:
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April 2025

INTRODUCTION

This report summarizes the results of the statistical analysis used to evaluate the ground water quality data obtained during the first semi-annual monitoring event in 2025 at the Tama County Sanitary Landfill in Toledo, Tama County, Iowa. 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. Interwell statistics were used for comparisons of current data to background data at Tama County Sanitary Landfill. 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 Tama County Sanitary Landfill includes sample points MW-10, MW-20 (upgradient), MW-26 (upgradient), MW-27, MW-33, MW-34, MW-35, MW-36, MW-37 (upgradient), MW-3A, MW-8, SW-101, SW-102, and SW-3. Each of the groundwater monitoring wells is to be sampled at least semiannually and analyzed for the detection monitoring parameters listed in 113.10(5), which includes 15 inorganic constituents and 47 organic compounds, summarized in Table 1 below.

Table 1: Detection monitoring constituents listed in Appendix I of IAC 567, Chapter 113.

Organic Compounds:

Acetone	<i>trans</i> -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	<i>cis</i> -1,2-Dichloroethene	1,1,2,2-Tetrachloroethane
Bromoform	<i>trans</i> -1,2-Dichloroethene	Tetrachloroethene
Carbon disulfide	1,2-Dichloropropane	Toluene
Carbon tetrachloride	<i>cis</i> -1,3-Dichloropropene	1,1,1-Trichloroethane
Chlorobenzene	<i>trans</i> -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 first semi-annual monitoring event in 2025 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. Interwell statistics were applied to the Tama County Landfill data using the DUMPStat[®] statistical program. Ground water statistics are to be done on the inorganic constituents listed. The organic constituents are compared to maximum contaminant levels (MCLs) or practical quantitation limits (PQLs), in lieu of statistical comparisons to historical concentrations.

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

The background data used in this statistical analysis includes the ground water data collected from sample points MW-20, MW-26, MW-33, and MW-37 during the period from September 2014 through the current data. A summary of the background data from monitoring wells MW-20, MW-26, MW-33, and MW-37, used to determine the site prediction limits, 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 most current data from downgradient wells MW-10, MW-27, MW-34, MW-35, MW-36, MW-3A, and MW-8 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.

Summary of Prediction Limit Exceedances for the First Semi-Annual Monitoring Event in 2025

Well	Trace Metal	Result, µg/L	Prediction Limit	Prediction Limit Type	Verified or Awaiting Verification
MW-10	Barium	432	279.0293	Normal	Verified
	Cobalt	2.5	1.8000	Nonparametric	Verified
	Nickel	17.4	4.0000	Nonparametric	Verified
MW-35	Barium	435	279.0293	Normal	Verified
MW-36	Barium	300	279.0293	Normal	Verified
MW-8	Nickel	5.4	4.0000	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 for the metals. 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 1% and the test becomes sensitive to 4 standard deviation unit increases over background.

The past and current verified metals exceedances were evaluated against the ground water protection standards (GWPS) using confidence limits calculated in accordance with the Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities – Unified Guidance, USEPA, March 2009 (Attachment C). The analysis was conducted to evaluate whether verified concentrations are significantly above the water quality standard. 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 ground-water protection standards 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 cobalt at MW-10 (2.958 µg/L) exceeded the GWPS of 2.1 µg/L. The calculated 95% LCLs for the remainder of the metals tested are below 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.

There were no VOCs detected in the ground water at Tama County Landfill during the first semi-annual monitoring event in 2025. Historical VOC detections in the ground water are summarized in Attachment D. The verified VOC detections were evaluated against the GWPS using confidence limits (Attachment E). The calculated LCLs are below GWPS.

CONCLUSIONS

This report summarizes the statistical analyses used to evaluate the ground water data obtained during the first semi-annual monitoring event in 2025 at Tama County Sanitary Landfill. There are verified site prediction limit exceedances for barium, cobalt, and nickel at MW-10, barium at MW-35, barium at MW-36, and nickel at MW-8. There were no organic compounds detected in the ground water during the first semi-annual monitoring event in 2025.

Attachment A

Summary of the Data obtained during the First Semi-Annual Monitoring Event in 2025

Table 1

Analytical Data Summary for 3/6/2025

Constituents	Units	MW-10	MW-20	MW-26	MW-27	MW-33	MW-34	MW-35	MW-36	MW-37	MW-3A	MW-8
1,1,1,2-tetrachloroethane	ug/L	<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
1,1,2,2-tetrachloroethane	ug/L	<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-dichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethylene	ug/L	<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
1,2-dibromo-3-chloropropane	ug/L	<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
1,2-dichlorobenzene	ug/L	<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
1,2-dichloropropane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-dichlorobenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-butanone (mek)	ug/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
2-hexanone (mbk)	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
4-methyl-2-pentanone (mibk)	ug/L	<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
Acrylonitrile	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Antimony, total	ug/L	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Arsenic, total	ug/L	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Barium, total	ug/L	432.0	216.0	116.0	154.0	169.0	89.4	435.0	300.0	62.4	67.0	208.0
Benzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Beryllium, total	ug/L	<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
Bromodichloromethane	ug/L	<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
Bromomethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cadmium, total	ug/L	<.8	<.8	<.8	<.8	<.8	<.8	<.8	<.8	<.8	<.8	<.8
Carbon disulfide	ug/L	<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
Chlorobenzene	ug/L	<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
Chloroform	ug/L	<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
Chromium, total	ug/L	<8	<8	<8	<8	<8	<8	<8	<8	<8	<8	<8
Cis-1,2-dichloroethylene	ug/L	<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
Cobalt, total	ug/L	2.5	<.4	<.4	<.4	<.4	<.4	<.4	<.4	<.4	.4	.8
Copper, total	ug/L	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Dibromochloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromomethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dichlorodifluoromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Lead, total	ug/L	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Methyl iodide	ug/L	<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
Nickel, total	ug/L	17.4	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	5.4
Selenium, total	ug/L	<4.0	<4.0	12.4	<4.0	<4.0	<4.0	<4.0	<4.0	15.0	<4.0	<4.0
Silver, total	ug/L	<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
Tetrachloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Thallium, total	ug/L	<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
Trans-1,2-dichloroethylene	ug/L	<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
Trans-1,4-dichloro-2-butene	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Trichloroethylene	ug/L	<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
Vanadium, total	ug/L	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
Vinyl acetate	ug/L	<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
Xylenes, total	ug/L	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Zinc, total	ug/L	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20

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

Attachment B

Summary Tables and Graphs for the Interwell Comparisons

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Antimony, total	ug/L	MW-20	09/15/2014	ND	2.0000		
Antimony, total	ug/L	MW-20	01/14/2015	ND	2.0000		
Antimony, total	ug/L	MW-20	03/06/2015	ND	2.0000		
Antimony, total	ug/L	MW-20	06/16/2015	ND	2.0000		
Antimony, total	ug/L	MW-20	08/24/2015	ND	2.0000		
Antimony, total	ug/L	MW-20	03/01/2016	ND	2.0000		
Antimony, total	ug/L	MW-20	09/09/2016	ND	2.0000		
Antimony, total	ug/L	MW-20	03/22/2017	ND	2.0000		
Antimony, total	ug/L	MW-20	08/24/2017	ND	2.0000		
Antimony, total	ug/L	MW-20	02/26/2018	ND	2.0000		
Antimony, total	ug/L	MW-20	08/29/2018	ND	2.0000		
Antimony, total	ug/L	MW-20	03/18/2019	ND	2.0000		
Antimony, total	ug/L	MW-20	09/10/2019	ND	2.0000		
Antimony, total	ug/L	MW-20	03/25/2020	ND	2.0000		
Antimony, total	ug/L	MW-20	09/04/2020	ND	2.0000		
Antimony, total	ug/L	MW-20	03/02/2021	ND	2.0000		
Antimony, total	ug/L	MW-20	09/02/2021	ND	2.0000		
Antimony, total	ug/L	MW-20	03/02/2022	ND	2.0000		
Antimony, total	ug/L	MW-20	08/29/2022	ND	2.0000		
Antimony, total	ug/L	MW-20	03/23/2023	ND	2.0000		
Antimony, total	ug/L	MW-20	09/25/2023	ND	2.0000		
Antimony, total	ug/L	MW-20	03/05/2024	ND	2.0000		
Antimony, total	ug/L	MW-20	09/30/2024	ND	2.0000		
Antimony, total	ug/L	MW-20	03/06/2025	ND	2.0000		
Arsenic, total	ug/L	MW-20	09/15/2014	ND	4.0000		
Arsenic, total	ug/L	MW-20	01/14/2015	ND	4.0000		
Arsenic, total	ug/L	MW-20	03/06/2015	ND	4.0000		
Arsenic, total	ug/L	MW-20	06/16/2015	ND	4.0000		
Arsenic, total	ug/L	MW-20	08/24/2015	ND	4.0000		
Arsenic, total	ug/L	MW-20	03/01/2016	ND	4.0000		
Arsenic, total	ug/L	MW-20	09/09/2016	ND	4.0000		
Arsenic, total	ug/L	MW-20	03/22/2017	ND	4.0000		
Arsenic, total	ug/L	MW-20	08/24/2017	ND	4.0000		
Arsenic, total	ug/L	MW-20	02/26/2018	ND	4.0000		
Arsenic, total	ug/L	MW-20	08/29/2018	ND	4.0000		
Arsenic, total	ug/L	MW-20	03/18/2019	ND	4.0000		
Arsenic, total	ug/L	MW-20	09/10/2019	ND	4.0000		
Arsenic, total	ug/L	MW-20	03/25/2020	ND	4.0000		
Arsenic, total	ug/L	MW-20	09/04/2020	ND	4.0000		
Arsenic, total	ug/L	MW-20	03/02/2021	ND	4.0000		
Arsenic, total	ug/L	MW-20	09/02/2021	ND	4.0000		
Arsenic, total	ug/L	MW-20	03/02/2022	ND	4.0000		
Arsenic, total	ug/L	MW-20	08/29/2022	ND	4.0000		
Arsenic, total	ug/L	MW-20	03/23/2023	ND	4.0000		
Arsenic, total	ug/L	MW-20	09/25/2023	ND	4.0000		
Arsenic, total	ug/L	MW-20	03/05/2024	ND	4.0000		
Arsenic, total	ug/L	MW-20	09/30/2024	ND	4.0000		
Arsenic, total	ug/L	MW-20	03/06/2025	ND	4.0000		
Barium, total	ug/L	MW-20	09/15/2014		177.0000		
Barium, total	ug/L	MW-20	01/14/2015		208.0000		
Barium, total	ug/L	MW-20	03/06/2015		219.0000		
Barium, total	ug/L	MW-20	06/16/2015		221.0000		
Barium, total	ug/L	MW-20	08/24/2015		171.0000		
Barium, total	ug/L	MW-20	03/01/2016		162.0000		
Barium, total	ug/L	MW-20	09/09/2016		209.0000		
Barium, total	ug/L	MW-20	03/22/2017		222.0000		
Barium, total	ug/L	MW-20	08/24/2017		239.0000		
Barium, total	ug/L	MW-20	02/26/2018		239.0000		
Barium, total	ug/L	MW-20	08/29/2018		201.0000		
Barium, total	ug/L	MW-20	03/18/2019		193.0000		
Barium, total	ug/L	MW-20	09/10/2019		142.0000		
Barium, total	ug/L	MW-20	03/25/2020		184.0000		
Barium, total	ug/L	MW-20	09/04/2020		167.0000		
Barium, total	ug/L	MW-20	03/02/2021		217.0000		
Barium, total	ug/L	MW-20	09/02/2021		210.0000		
Barium, total	ug/L	MW-20	03/02/2022		236.0000		
Barium, total	ug/L	MW-20	08/29/2022		152.0000		
Barium, total	ug/L	MW-20	03/23/2023		231.0000		
Barium, total	ug/L	MW-20	09/25/2023		185.0000		
Barium, total	ug/L	MW-20	03/05/2024		201.0000		
Barium, total	ug/L	MW-20	09/30/2024		194.0000		
Barium, total	ug/L	MW-20	03/06/2025		216.0000		
Beryllium, total	ug/L	MW-20	09/15/2014	ND	4.0000		
Beryllium, total	ug/L	MW-20	01/14/2015	ND	4.0000		

* - 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	
Beryllium, total	ug/L	MW-20	03/06/2015	ND	4.0000		
Beryllium, total	ug/L	MW-20	06/16/2015	ND	4.0000		
Beryllium, total	ug/L	MW-20	08/24/2015	ND	4.0000		
Beryllium, total	ug/L	MW-20	03/01/2016	ND	4.0000		
Beryllium, total	ug/L	MW-20	09/09/2016	ND	4.0000		
Beryllium, total	ug/L	MW-20	03/22/2017	ND	4.0000		
Beryllium, total	ug/L	MW-20	08/24/2017	ND	4.0000		
Beryllium, total	ug/L	MW-20	02/26/2018	ND	4.0000		
Beryllium, total	ug/L	MW-20	08/29/2018	ND	4.0000		
Beryllium, total	ug/L	MW-20	03/18/2019	ND	4.0000		
Beryllium, total	ug/L	MW-20	09/10/2019	ND	4.0000		
Beryllium, total	ug/L	MW-20	03/25/2020	ND	4.0000		
Beryllium, total	ug/L	MW-20	09/04/2020	ND	4.0000		
Beryllium, total	ug/L	MW-20	03/02/2021	ND	4.0000		
Beryllium, total	ug/L	MW-20	09/02/2021	ND	4.0000		
Beryllium, total	ug/L	MW-20	03/02/2022	ND	4.0000		
Beryllium, total	ug/L	MW-20	08/29/2022	ND	4.0000		
Beryllium, total	ug/L	MW-20	03/23/2023	ND	4.0000		
Beryllium, total	ug/L	MW-20	09/25/2023	ND	4.0000		
Beryllium, total	ug/L	MW-20	03/05/2024	ND	4.0000		
Beryllium, total	ug/L	MW-20	09/30/2024	ND	4.0000		
Beryllium, total	ug/L	MW-20	03/06/2025	ND	4.0000		
Cadmium, total	ug/L	MW-20	09/15/2014	ND	0.8000		
Cadmium, total	ug/L	MW-20	01/14/2015	ND	0.8000		
Cadmium, total	ug/L	MW-20	03/06/2015	ND	0.8000		
Cadmium, total	ug/L	MW-20	06/16/2015	ND	0.8000		
Cadmium, total	ug/L	MW-20	08/24/2015	ND	0.8000		
Cadmium, total	ug/L	MW-20	03/01/2016	ND	0.8000		
Cadmium, total	ug/L	MW-20	09/09/2016	ND	0.8000		
Cadmium, total	ug/L	MW-20	03/22/2017	ND	0.8000		
Cadmium, total	ug/L	MW-20	08/24/2017	ND	0.8000		
Cadmium, total	ug/L	MW-20	02/26/2018	ND	0.8000		
Cadmium, total	ug/L	MW-20	08/29/2018	ND	0.8000		
Cadmium, total	ug/L	MW-20	03/18/2019	ND	0.8000		
Cadmium, total	ug/L	MW-20	09/10/2019	ND	0.8000		
Cadmium, total	ug/L	MW-20	03/25/2020	ND	0.8000		
Cadmium, total	ug/L	MW-20	09/04/2020	ND	0.8000		
Cadmium, total	ug/L	MW-20	03/02/2021		0.8000		
Cadmium, total	ug/L	MW-20	09/02/2021		0.8000		
Cadmium, total	ug/L	MW-20	03/02/2022	ND	0.8000		
Cadmium, total	ug/L	MW-20	08/29/2022	ND	0.8000		
Cadmium, total	ug/L	MW-20	03/23/2023	ND	0.8000		
Cadmium, total	ug/L	MW-20	09/25/2023	ND	0.8000		
Cadmium, total	ug/L	MW-20	03/05/2024	ND	0.8000		
Cadmium, total	ug/L	MW-20	09/30/2024	ND	0.8000		
Cadmium, total	ug/L	MW-20	03/06/2025	ND	0.8000		
Chromium, total	ug/L	MW-20	09/15/2014	ND	8.0000		
Chromium, total	ug/L	MW-20	01/14/2015	ND	8.0000		
Chromium, total	ug/L	MW-20	03/06/2015	ND	8.0000		
Chromium, total	ug/L	MW-20	06/16/2015	ND	8.0000		
Chromium, total	ug/L	MW-20	08/24/2015	ND	8.0000		
Chromium, total	ug/L	MW-20	03/01/2016	ND	8.0000		
Chromium, total	ug/L	MW-20	09/09/2016	ND	8.0000		
Chromium, total	ug/L	MW-20	03/22/2017	ND	8.0000		
Chromium, total	ug/L	MW-20	08/24/2017	ND	8.0000		
Chromium, total	ug/L	MW-20	02/26/2018	ND	8.0000		
Chromium, total	ug/L	MW-20	08/29/2018	ND	8.0000		
Chromium, total	ug/L	MW-20	03/18/2019	ND	8.0000		
Chromium, total	ug/L	MW-20	09/10/2019	ND	8.0000		
Chromium, total	ug/L	MW-20	03/25/2020	ND	8.0000		
Chromium, total	ug/L	MW-20	09/04/2020	ND	8.0000		
Chromium, total	ug/L	MW-20	03/02/2021	ND	8.0000		
Chromium, total	ug/L	MW-20	09/02/2021	ND	8.0000		
Chromium, total	ug/L	MW-20	03/02/2022	ND	8.0000		
Chromium, total	ug/L	MW-20	08/29/2022	ND	8.0000		
Chromium, total	ug/L	MW-20	03/23/2023	ND	8.0000		
Chromium, total	ug/L	MW-20	09/25/2023	ND	8.0000		
Chromium, total	ug/L	MW-20	03/05/2024	ND	8.0000		
Chromium, total	ug/L	MW-20	09/30/2024	ND	8.0000		
Chromium, total	ug/L	MW-20	03/06/2025	ND	8.0000		
Cobalt, total	ug/L	MW-20	09/15/2014	ND	0.8000		
Cobalt, total	ug/L	MW-20	01/14/2015	ND	0.8000		
Cobalt, total	ug/L	MW-20	03/06/2015	ND	0.8000		
Cobalt, total	ug/L	MW-20	06/16/2015	ND	0.8000		

* - 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, total	ug/L	MW-20	08/24/2015	ND	0.8000		
Cobalt, total	ug/L	MW-20	03/01/2016	ND	0.8000		
Cobalt, total	ug/L	MW-20	09/09/2016	ND	0.8000		
Cobalt, total	ug/L	MW-20	03/22/2017	ND	0.8000		
Cobalt, total	ug/L	MW-20	08/24/2017	ND	0.8000		
Cobalt, total	ug/L	MW-20	02/26/2018		0.8000		
Cobalt, total	ug/L	MW-20	08/29/2018	ND	0.8000		
Cobalt, total	ug/L	MW-20	03/18/2019	ND	0.8000		
Cobalt, total	ug/L	MW-20	09/10/2019	ND	0.8000		
Cobalt, total	ug/L	MW-20	03/25/2020	ND	0.8000		
Cobalt, total	ug/L	MW-20	09/04/2020	ND	0.4000	0.8000	**
Cobalt, total	ug/L	MW-20	03/02/2021		1.0000		
Cobalt, total	ug/L	MW-20	09/02/2021		1.1000		
Cobalt, total	ug/L	MW-20	03/02/2022		0.8000		
Cobalt, total	ug/L	MW-20	08/29/2022	ND	0.4000	0.8000	**
Cobalt, total	ug/L	MW-20	03/23/2023	ND	0.4000	0.8000	**
Cobalt, total	ug/L	MW-20	09/25/2023	ND	0.4000	0.8000	**
Cobalt, total	ug/L	MW-20	03/05/2024		0.4000		
Cobalt, total	ug/L	MW-20	09/30/2024	ND	0.4000	0.8000	**
Cobalt, total	ug/L	MW-20	03/06/2025	ND	0.4000	0.8000	**
Copper, total	ug/L	MW-20	09/15/2014	ND	4.0000		
Copper, total	ug/L	MW-20	01/14/2015	ND	4.0000		
Copper, total	ug/L	MW-20	03/06/2015	ND	4.0000		
Copper, total	ug/L	MW-20	06/16/2015	ND	4.0000		
Copper, total	ug/L	MW-20	08/24/2015	ND	4.0000		
Copper, total	ug/L	MW-20	03/01/2016	ND	4.0000		
Copper, total	ug/L	MW-20	09/09/2016	ND	4.0000		
Copper, total	ug/L	MW-20	03/22/2017	ND	4.0000		
Copper, total	ug/L	MW-20	08/24/2017	ND	4.0000		
Copper, total	ug/L	MW-20	02/26/2018	ND	4.0000		
Copper, total	ug/L	MW-20	08/29/2018	ND	4.0000		
Copper, total	ug/L	MW-20	03/18/2019	ND	4.0000		
Copper, total	ug/L	MW-20	09/10/2019	ND	4.0000		
Copper, total	ug/L	MW-20	03/25/2020	ND	4.0000		
Copper, total	ug/L	MW-20	09/04/2020	ND	4.0000		
Copper, total	ug/L	MW-20	03/02/2021	ND	4.0000		
Copper, total	ug/L	MW-20	09/02/2021	ND	4.0000		
Copper, total	ug/L	MW-20	03/02/2022	ND	4.0000		
Copper, total	ug/L	MW-20	08/29/2022	ND	4.0000		
Copper, total	ug/L	MW-20	03/23/2023	ND	4.0000		
Copper, total	ug/L	MW-20	09/25/2023	ND	4.0000		
Copper, total	ug/L	MW-20	03/05/2024	ND	4.0000		
Copper, total	ug/L	MW-20	09/30/2024	ND	4.0000		
Copper, total	ug/L	MW-20	03/06/2025	ND	4.0000		
Lead, total	ug/L	MW-20	09/15/2014	ND	4.0000		
Lead, total	ug/L	MW-20	01/14/2015	ND	4.0000		
Lead, total	ug/L	MW-20	03/06/2015	ND	4.0000		
Lead, total	ug/L	MW-20	06/16/2015	ND	4.0000		
Lead, total	ug/L	MW-20	08/24/2015	ND	4.0000		
Lead, total	ug/L	MW-20	03/01/2016	ND	4.0000		
Lead, total	ug/L	MW-20	09/09/2016	ND	4.0000		
Lead, total	ug/L	MW-20	03/22/2017	ND	4.0000		
Lead, total	ug/L	MW-20	08/24/2017	ND	4.0000		
Lead, total	ug/L	MW-20	02/26/2018	ND	4.0000		
Lead, total	ug/L	MW-20	08/29/2018	ND	4.0000		
Lead, total	ug/L	MW-20	03/18/2019	ND	4.0000		
Lead, total	ug/L	MW-20	09/10/2019	ND	4.0000		
Lead, total	ug/L	MW-20	03/25/2020	ND	4.0000		
Lead, total	ug/L	MW-20	09/04/2020	ND	4.0000		
Lead, total	ug/L	MW-20	03/02/2021	ND	4.0000		
Lead, total	ug/L	MW-20	09/02/2021	ND	4.0000		
Lead, total	ug/L	MW-20	03/02/2022	ND	4.0000		
Lead, total	ug/L	MW-20	08/29/2022	ND	4.0000		
Lead, total	ug/L	MW-20	03/23/2023	ND	4.0000		
Lead, total	ug/L	MW-20	09/25/2023	ND	4.0000		
Lead, total	ug/L	MW-20	03/05/2024	ND	4.0000		
Lead, total	ug/L	MW-20	09/30/2024	ND	4.0000		
Lead, total	ug/L	MW-20	03/06/2025	ND	4.0000		
Nickel, total	ug/L	MW-20	09/15/2014	ND	4.0000		
Nickel, total	ug/L	MW-20	01/14/2015	ND	4.0000		
Nickel, total	ug/L	MW-20	03/06/2015	ND	4.0000		
Nickel, total	ug/L	MW-20	06/16/2015	ND	4.0000		
Nickel, total	ug/L	MW-20	08/24/2015	ND	4.0000		
Nickel, total	ug/L	MW-20	03/01/2016	ND	4.0000		

* - 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, total	ug/L	MW-20	09/09/2016	ND	4.0000	4.0000	**
Nickel, total	ug/L	MW-20	03/22/2017	ND	4.0000		
Nickel, total	ug/L	MW-20	08/24/2017	ND	4.0000		
Nickel, total	ug/L	MW-20	02/26/2018	ND	4.0000		
Nickel, total	ug/L	MW-20	08/29/2018	ND	8.0000		
Nickel, total	ug/L	MW-20	03/18/2019	ND	4.0000		
Nickel, total	ug/L	MW-20	09/10/2019	ND	4.0000		
Nickel, total	ug/L	MW-20	03/25/2020	ND	4.0000		
Nickel, total	ug/L	MW-20	09/04/2020	ND	4.0000		
Nickel, total	ug/L	MW-20	03/02/2021	ND	4.0000		
Nickel, total	ug/L	MW-20	09/02/2021	ND	4.0000		
Nickel, total	ug/L	MW-20	03/02/2022	ND	4.0000		
Nickel, total	ug/L	MW-20	08/29/2022	ND	4.0000		
Nickel, total	ug/L	MW-20	03/23/2023	ND	4.0000		
Nickel, total	ug/L	MW-20	09/25/2023	ND	4.0000		
Nickel, total	ug/L	MW-20	03/05/2024	ND	4.0000		
Nickel, total	ug/L	MW-20	09/30/2024	ND	4.0000		
Nickel, total	ug/L	MW-20	03/06/2025	ND	4.0000		
Selenium, total	ug/L	MW-20	09/15/2014	ND	4.0000		
Selenium, total	ug/L	MW-20	01/14/2015	ND	4.0000		
Selenium, total	ug/L	MW-20	03/06/2015	ND	4.0000		
Selenium, total	ug/L	MW-20	06/16/2015	ND	4.0000		
Selenium, total	ug/L	MW-20	08/24/2015	ND	4.0000		
Selenium, total	ug/L	MW-20	03/01/2016	ND	4.0000		
Selenium, total	ug/L	MW-20	09/09/2016	ND	4.0000		
Selenium, total	ug/L	MW-20	03/22/2017	ND	4.0000		
Selenium, total	ug/L	MW-20	08/24/2017	ND	4.0000		
Selenium, total	ug/L	MW-20	02/26/2018	ND	4.0000		
Selenium, total	ug/L	MW-20	08/29/2018	ND	4.0000		
Selenium, total	ug/L	MW-20	03/18/2019	ND	4.0000		
Selenium, total	ug/L	MW-20	09/10/2019	ND	4.0000		
Selenium, total	ug/L	MW-20	03/25/2020	ND	4.0000		
Selenium, total	ug/L	MW-20	09/04/2020	ND	4.0000		
Selenium, total	ug/L	MW-20	03/02/2021	ND	4.0000		
Selenium, total	ug/L	MW-20	09/02/2021	ND	4.0000		
Selenium, total	ug/L	MW-20	03/02/2022	ND	4.0000		
Selenium, total	ug/L	MW-20	08/29/2022	ND	4.0000		
Selenium, total	ug/L	MW-20	03/23/2023	ND	4.0000		
Selenium, total	ug/L	MW-20	09/25/2023	ND	4.0000		
Selenium, total	ug/L	MW-20	03/05/2024	ND	4.0000		
Selenium, total	ug/L	MW-20	09/30/2024	ND	4.0000		
Selenium, total	ug/L	MW-20	03/06/2025	ND	4.0000		
Silver, total	ug/L	MW-20	09/15/2014	ND	4.0000	4.0000	**
Silver, total	ug/L	MW-20	01/14/2015	ND	4.0000		
Silver, total	ug/L	MW-20	03/06/2015	ND	4.0000		
Silver, total	ug/L	MW-20	06/16/2015	ND	4.0000		
Silver, total	ug/L	MW-20	08/24/2015	ND	4.0000		
Silver, total	ug/L	MW-20	03/01/2016	ND	4.0000		
Silver, total	ug/L	MW-20	09/09/2016	ND	4.0000		
Silver, total	ug/L	MW-20	03/22/2017	ND	4.0000		
Silver, total	ug/L	MW-20	08/24/2017	ND	4.0000		
Silver, total	ug/L	MW-20	02/26/2018	ND	4.0000		
Silver, total	ug/L	MW-20	08/29/2018	ND	8.0000		
Silver, total	ug/L	MW-20	03/18/2019	ND	4.0000		
Silver, total	ug/L	MW-20	09/10/2019	ND	4.0000		
Silver, total	ug/L	MW-20	03/25/2020	ND	4.0000		
Silver, total	ug/L	MW-20	09/04/2020	ND	4.0000		
Silver, total	ug/L	MW-20	03/02/2021	ND	4.0000		
Silver, total	ug/L	MW-20	09/02/2021	ND	4.0000		
Silver, total	ug/L	MW-20	03/02/2022	ND	4.0000		
Silver, total	ug/L	MW-20	08/29/2022	ND	4.0000		
Silver, total	ug/L	MW-20	03/23/2023	ND	4.0000		
Silver, total	ug/L	MW-20	09/25/2023	ND	4.0000		
Silver, total	ug/L	MW-20	03/05/2024	ND	4.0000		
Silver, total	ug/L	MW-20	09/30/2024	ND	4.0000		
Silver, total	ug/L	MW-20	03/06/2025	ND	4.0000		
Thallium, total	ug/L	MW-20	09/15/2014	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-20	01/14/2015	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-20	03/06/2015	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-20	06/16/2015	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-20	08/24/2015	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-20	03/01/2016	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-20	09/09/2016	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-20	03/22/2017	ND	4.0000	2.0000	**

* - 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, total	ug/L	MW-20	08/24/2017	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-20	02/26/2018	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-20	08/29/2018	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-20	03/18/2019	ND	2.0000		
Thallium, total	ug/L	MW-20	09/10/2019	ND	2.0000		
Thallium, total	ug/L	MW-20	03/25/2020	ND	2.0000		
Thallium, total	ug/L	MW-20	09/04/2020	ND	2.0000		
Thallium, total	ug/L	MW-20	03/02/2021	ND	2.0000		
Thallium, total	ug/L	MW-20	09/02/2021	ND	2.0000		
Thallium, total	ug/L	MW-20	03/02/2022	ND	2.0000		
Thallium, total	ug/L	MW-20	08/29/2022	ND	2.0000		
Thallium, total	ug/L	MW-20	03/23/2023	ND	2.0000		
Thallium, total	ug/L	MW-20	09/25/2023	ND	2.0000		
Thallium, total	ug/L	MW-20	03/05/2024	ND	2.0000		
Thallium, total	ug/L	MW-20	09/30/2024	ND	2.0000		
Thallium, total	ug/L	MW-20	03/06/2025	ND	2.0000		
Vanadium, total	ug/L	MW-20	09/15/2014	ND	20.0000		
Vanadium, total	ug/L	MW-20	01/14/2015	ND	20.0000		
Vanadium, total	ug/L	MW-20	03/06/2015	ND	20.0000		
Vanadium, total	ug/L	MW-20	06/16/2015	ND	20.0000		
Vanadium, total	ug/L	MW-20	08/24/2015	ND	20.0000		
Vanadium, total	ug/L	MW-20	03/01/2016	ND	20.0000		
Vanadium, total	ug/L	MW-20	09/09/2016	ND	20.0000		
Vanadium, total	ug/L	MW-20	03/22/2017	ND	20.0000		
Vanadium, total	ug/L	MW-20	08/24/2017	ND	20.0000		
Vanadium, total	ug/L	MW-20	02/26/2018	ND	20.0000		
Vanadium, total	ug/L	MW-20	08/29/2018	ND	20.0000		
Vanadium, total	ug/L	MW-20	03/18/2019	ND	20.0000		
Vanadium, total	ug/L	MW-20	09/10/2019	ND	20.0000		
Vanadium, total	ug/L	MW-20	03/25/2020	ND	20.0000		
Vanadium, total	ug/L	MW-20	09/04/2020	ND	20.0000		
Vanadium, total	ug/L	MW-20	03/02/2021	ND	20.0000		
Vanadium, total	ug/L	MW-20	09/02/2021	ND	20.0000		
Vanadium, total	ug/L	MW-20	03/02/2022	ND	20.0000		
Vanadium, total	ug/L	MW-20	08/29/2022	ND	20.0000		
Vanadium, total	ug/L	MW-20	03/23/2023	ND	20.0000		
Vanadium, total	ug/L	MW-20	09/25/2023	ND	20.0000		
Vanadium, total	ug/L	MW-20	03/05/2024	ND	20.0000		
Vanadium, total	ug/L	MW-20	09/30/2024	ND	20.0000		
Vanadium, total	ug/L	MW-20	03/06/2025	ND	20.0000		
Zinc, total	ug/L	MW-20	09/15/2014		8.3000		
Zinc, total	ug/L	MW-20	01/14/2015	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-20	03/06/2015	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-20	06/16/2015	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-20	08/24/2015	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-20	03/01/2016	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-20	09/09/2016	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-20	03/22/2017	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-20	08/24/2017	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-20	02/26/2018		11.4000		
Zinc, total	ug/L	MW-20	08/29/2018		49.4000		
Zinc, total	ug/L	MW-20	03/18/2019		23.9000		
Zinc, total	ug/L	MW-20	09/10/2019	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-20	03/25/2020	ND	20.0000		
Zinc, total	ug/L	MW-20	09/04/2020	ND	20.0000		
Zinc, total	ug/L	MW-20	03/02/2021	ND	20.0000		
Zinc, total	ug/L	MW-20	09/02/2021		44.5000		
Zinc, total	ug/L	MW-20	03/02/2022	ND	20.0000		
Zinc, total	ug/L	MW-20	08/29/2022	ND	20.0000		
Zinc, total	ug/L	MW-20	03/23/2023	ND	20.0000		
Zinc, total	ug/L	MW-20	09/25/2023	ND	20.0000		
Zinc, total	ug/L	MW-20	03/05/2024	ND	20.0000		
Zinc, total	ug/L	MW-20	09/30/2024	ND	20.0000		
Zinc, total	ug/L	MW-20	03/06/2025	ND	20.0000		
Antimony, total	ug/L	MW-26	09/15/2014	ND	2.0000		
Antimony, total	ug/L	MW-26	01/14/2015	ND	2.0000		
Antimony, total	ug/L	MW-26	03/06/2015	ND	2.0000		
Antimony, total	ug/L	MW-26	06/16/2015	ND	2.0000		
Antimony, total	ug/L	MW-26	08/24/2015	ND	2.0000		
Antimony, total	ug/L	MW-26	03/01/2016	ND	2.0000		
Antimony, total	ug/L	MW-26	09/09/2016	ND	2.0000		
Antimony, total	ug/L	MW-26	03/22/2017	ND	2.0000		
Antimony, total	ug/L	MW-26	08/24/2017	ND	2.0000		
Antimony, total	ug/L	MW-26	02/26/2018	ND	5.0000	2.0000	**

* - 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	
Antimony, total	ug/L	MW-26	08/29/2018	ND	2.0000		
Antimony, total	ug/L	MW-26	03/18/2019	ND	2.0000		
Antimony, total	ug/L	MW-26	09/10/2019	ND	2.0000		
Antimony, total	ug/L	MW-26	03/25/2020	ND	2.0000		
Antimony, total	ug/L	MW-26	09/04/2020	ND	2.0000		
Antimony, total	ug/L	MW-26	03/02/2021	ND	2.0000		
Antimony, total	ug/L	MW-26	09/02/2021	ND	2.0000		
Antimony, total	ug/L	MW-26	03/02/2022	ND	2.0000		
Antimony, total	ug/L	MW-26	08/29/2022	ND	2.0000		
Antimony, total	ug/L	MW-26	03/23/2023	ND	2.0000		
Antimony, total	ug/L	MW-26	09/25/2023	ND	2.0000		
Antimony, total	ug/L	MW-26	03/05/2024	ND	2.0000		
Antimony, total	ug/L	MW-26	09/30/2024	ND	2.0000		
Antimony, total	ug/L	MW-26	03/06/2025	ND	2.0000		
Arsenic, total	ug/L	MW-26	09/15/2014	ND	4.0000		
Arsenic, total	ug/L	MW-26	01/14/2015	ND	4.0000		
Arsenic, total	ug/L	MW-26	03/06/2015	ND	4.0000		
Arsenic, total	ug/L	MW-26	06/16/2015	ND	4.0000		
Arsenic, total	ug/L	MW-26	08/24/2015	ND	4.0000		
Arsenic, total	ug/L	MW-26	03/01/2016	ND	4.0000		
Arsenic, total	ug/L	MW-26	09/09/2016	ND	4.0000		
Arsenic, total	ug/L	MW-26	03/22/2017	ND	4.0000		
Arsenic, total	ug/L	MW-26	08/24/2017	ND	4.0000		
Arsenic, total	ug/L	MW-26	02/26/2018	ND	10.0000	4.0000	**
Arsenic, total	ug/L	MW-26	08/29/2018	ND	4.0000		
Arsenic, total	ug/L	MW-26	03/18/2019	ND	4.0000		
Arsenic, total	ug/L	MW-26	09/10/2019	ND	4.0000		
Arsenic, total	ug/L	MW-26	03/25/2020	ND	4.0000		
Arsenic, total	ug/L	MW-26	09/04/2020	ND	4.0000		
Arsenic, total	ug/L	MW-26	03/02/2021	ND	4.0000		
Arsenic, total	ug/L	MW-26	09/02/2021	ND	4.0000		
Arsenic, total	ug/L	MW-26	03/02/2022	ND	4.0000		
Arsenic, total	ug/L	MW-26	08/29/2022	ND	4.0000		
Arsenic, total	ug/L	MW-26	03/23/2023	ND	4.0000		
Arsenic, total	ug/L	MW-26	09/25/2023	ND	4.0000		
Arsenic, total	ug/L	MW-26	03/05/2024	ND	4.0000		
Arsenic, total	ug/L	MW-26	09/30/2024	ND	4.0000		
Arsenic, total	ug/L	MW-26	03/06/2025	ND	4.0000		
Barium, total	ug/L	MW-26	09/15/2014		141.0000		
Barium, total	ug/L	MW-26	01/14/2015		118.0000		
Barium, total	ug/L	MW-26	03/06/2015		106.0000		
Barium, total	ug/L	MW-26	06/16/2015		121.0000		
Barium, total	ug/L	MW-26	08/24/2015		156.0000		
Barium, total	ug/L	MW-26	03/01/2016		120.0000		
Barium, total	ug/L	MW-26	09/09/2016		116.0000		
Barium, total	ug/L	MW-26	03/22/2017		123.0000		
Barium, total	ug/L	MW-26	08/24/2017		128.0000		
Barium, total	ug/L	MW-26	02/26/2018		119.0000		
Barium, total	ug/L	MW-26	08/29/2018		117.0000		
Barium, total	ug/L	MW-26	03/18/2019		147.0000		
Barium, total	ug/L	MW-26	09/10/2019		178.0000		
Barium, total	ug/L	MW-26	03/25/2020		199.0000		
Barium, total	ug/L	MW-26	09/04/2020		189.0000		
Barium, total	ug/L	MW-26	03/02/2021		157.0000		
Barium, total	ug/L	MW-26	09/02/2021		179.0000		
Barium, total	ug/L	MW-26	03/02/2022		126.0000		
Barium, total	ug/L	MW-26	08/29/2022		142.0000		
Barium, total	ug/L	MW-26	03/23/2023		112.0000		
Barium, total	ug/L	MW-26	09/25/2023		116.0000		
Barium, total	ug/L	MW-26	03/05/2024		118.0000		
Barium, total	ug/L	MW-26	09/30/2024		153.0000		
Barium, total	ug/L	MW-26	03/06/2025		116.0000		
Beryllium, total	ug/L	MW-26	09/15/2014	ND	4.0000		
Beryllium, total	ug/L	MW-26	01/14/2015	ND	4.0000		
Beryllium, total	ug/L	MW-26	03/06/2015	ND	4.0000		
Beryllium, total	ug/L	MW-26	06/16/2015	ND	4.0000		
Beryllium, total	ug/L	MW-26	08/24/2015	ND	4.0000		
Beryllium, total	ug/L	MW-26	03/01/2016	ND	4.0000		
Beryllium, total	ug/L	MW-26	09/09/2016	ND	4.0000		
Beryllium, total	ug/L	MW-26	03/22/2017	ND	4.0000		
Beryllium, total	ug/L	MW-26	08/24/2017	ND	4.0000		
Beryllium, total	ug/L	MW-26	02/26/2018	ND	10.0000	4.0000	**
Beryllium, total	ug/L	MW-26	08/29/2018	ND	4.0000		
Beryllium, total	ug/L	MW-26	03/18/2019	ND	4.0000		

* - 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	
Beryllium, total	ug/L	MW-26	09/10/2019	ND	4.0000		
Beryllium, total	ug/L	MW-26	03/25/2020	ND	4.0000		
Beryllium, total	ug/L	MW-26	09/04/2020	ND	4.0000		
Beryllium, total	ug/L	MW-26	03/02/2021	ND	4.0000		
Beryllium, total	ug/L	MW-26	09/02/2021	ND	4.0000		
Beryllium, total	ug/L	MW-26	03/02/2022	ND	4.0000		
Beryllium, total	ug/L	MW-26	08/29/2022	ND	4.0000		
Beryllium, total	ug/L	MW-26	03/23/2023	ND	4.0000		
Beryllium, total	ug/L	MW-26	09/25/2023	ND	4.0000		
Beryllium, total	ug/L	MW-26	03/05/2024	ND	4.0000		
Beryllium, total	ug/L	MW-26	09/30/2024	ND	4.0000		
Beryllium, total	ug/L	MW-26	03/06/2025	ND	4.0000		
Cadmium, total	ug/L	MW-26	09/15/2014	ND	0.8000		
Cadmium, total	ug/L	MW-26	01/14/2015	ND	0.8000		
Cadmium, total	ug/L	MW-26	03/06/2015	ND	0.8000		
Cadmium, total	ug/L	MW-26	06/16/2015	ND	0.8000		
Cadmium, total	ug/L	MW-26	08/24/2015	ND	0.8000		
Cadmium, total	ug/L	MW-26	03/01/2016	ND	0.8000		
Cadmium, total	ug/L	MW-26	09/09/2016	ND	0.8000		
Cadmium, total	ug/L	MW-26	03/22/2017	ND	0.8000		
Cadmium, total	ug/L	MW-26	08/24/2017	ND	0.8000		
Cadmium, total	ug/L	MW-26	02/26/2018	ND	2.0000	0.8000	**
Cadmium, total	ug/L	MW-26	08/29/2018	ND	0.8000		
Cadmium, total	ug/L	MW-26	03/18/2019	ND	0.8000		
Cadmium, total	ug/L	MW-26	09/10/2019	ND	0.8000		
Cadmium, total	ug/L	MW-26	03/25/2020	ND	0.8000		
Cadmium, total	ug/L	MW-26	09/04/2020	ND	0.8000		
Cadmium, total	ug/L	MW-26	03/02/2021	ND	0.8000		
Cadmium, total	ug/L	MW-26	09/02/2021	ND	0.8000		
Cadmium, total	ug/L	MW-26	03/02/2022	ND	0.8000		
Cadmium, total	ug/L	MW-26	08/29/2022	ND	0.8000		
Cadmium, total	ug/L	MW-26	03/23/2023	ND	0.8000		
Cadmium, total	ug/L	MW-26	09/25/2023	ND	0.8000		
Cadmium, total	ug/L	MW-26	03/05/2024	ND	0.8000		
Cadmium, total	ug/L	MW-26	09/30/2024	ND	0.8000		
Cadmium, total	ug/L	MW-26	03/06/2025	ND	0.8000		
Chromium, total	ug/L	MW-26	09/15/2014	ND	8.0000		
Chromium, total	ug/L	MW-26	01/14/2015	ND	8.0000		
Chromium, total	ug/L	MW-26	03/06/2015	ND	8.0000		
Chromium, total	ug/L	MW-26	06/16/2015	ND	8.0000		
Chromium, total	ug/L	MW-26	08/24/2015	ND	8.0000		
Chromium, total	ug/L	MW-26	03/01/2016	ND	8.0000		
Chromium, total	ug/L	MW-26	09/09/2016	ND	8.0000		
Chromium, total	ug/L	MW-26	03/22/2017	ND	8.0000		
Chromium, total	ug/L	MW-26	08/24/2017	ND	8.0000		
Chromium, total	ug/L	MW-26	02/26/2018	ND	20.0000	8.0000	**
Chromium, total	ug/L	MW-26	08/29/2018	ND	8.0000		
Chromium, total	ug/L	MW-26	03/18/2019	ND	8.0000		
Chromium, total	ug/L	MW-26	09/10/2019	ND	8.0000		
Chromium, total	ug/L	MW-26	03/25/2020	ND	8.0000		
Chromium, total	ug/L	MW-26	09/04/2020	ND	8.0000		
Chromium, total	ug/L	MW-26	03/02/2021	ND	8.0000		
Chromium, total	ug/L	MW-26	09/02/2021	ND	8.0000		
Chromium, total	ug/L	MW-26	03/02/2022	ND	8.0000		
Chromium, total	ug/L	MW-26	08/29/2022	ND	8.0000		
Chromium, total	ug/L	MW-26	03/23/2023	ND	8.0000		
Chromium, total	ug/L	MW-26	09/25/2023	ND	8.0000		
Chromium, total	ug/L	MW-26	03/05/2024	ND	8.0000		
Chromium, total	ug/L	MW-26	09/30/2024	ND	8.0000		
Chromium, total	ug/L	MW-26	03/06/2025	ND	8.0000		
Cobalt, total	ug/L	MW-26	09/15/2014	ND	0.8000		
Cobalt, total	ug/L	MW-26	01/14/2015	ND	0.8000		
Cobalt, total	ug/L	MW-26	03/06/2015	ND	0.8000		
Cobalt, total	ug/L	MW-26	06/16/2015	ND	0.8000		
Cobalt, total	ug/L	MW-26	08/24/2015	ND	0.8000		
Cobalt, total	ug/L	MW-26	03/01/2016	ND	0.8000		
Cobalt, total	ug/L	MW-26	09/09/2016	ND	0.8000		
Cobalt, total	ug/L	MW-26	03/22/2017	ND	0.8000		
Cobalt, total	ug/L	MW-26	08/24/2017	ND	0.8000		
Cobalt, total	ug/L	MW-26	02/26/2018	ND	2.0000	0.8000	**
Cobalt, total	ug/L	MW-26	08/29/2018	ND	0.8000		
Cobalt, total	ug/L	MW-26	03/18/2019	ND	0.8000		
Cobalt, total	ug/L	MW-26	09/10/2019	ND	0.8000		
Cobalt, total	ug/L	MW-26	03/25/2020	ND	0.8000		

* - 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, total	ug/L	MW-26	09/04/2020	ND	0.4000	0.8000	**
Cobalt, total	ug/L	MW-26	03/02/2021		0.9000		
Cobalt, total	ug/L	MW-26	09/02/2021	ND	0.4000	0.8000	**
Cobalt, total	ug/L	MW-26	03/02/2022		0.7000		
Cobalt, total	ug/L	MW-26	08/29/2022	ND	0.4000	0.8000	**
Cobalt, total	ug/L	MW-26	03/23/2023	ND	0.4000	0.8000	**
Cobalt, total	ug/L	MW-26	09/25/2023	ND	0.4000	0.8000	**
Cobalt, total	ug/L	MW-26	03/05/2024	ND	0.4000	0.8000	**
Cobalt, total	ug/L	MW-26	09/30/2024	ND	0.4000	0.8000	**
Cobalt, total	ug/L	MW-26	03/06/2025	ND	0.4000	0.8000	**
Copper, total	ug/L	MW-26	09/15/2014	ND	4.0000		
Copper, total	ug/L	MW-26	01/14/2015	ND	4.0000		
Copper, total	ug/L	MW-26	03/06/2015	ND	4.0000		
Copper, total	ug/L	MW-26	06/16/2015	ND	4.0000		
Copper, total	ug/L	MW-26	08/24/2015	ND	4.0000		
Copper, total	ug/L	MW-26	03/01/2016	ND	4.0000		
Copper, total	ug/L	MW-26	09/09/2016	ND	4.0000		
Copper, total	ug/L	MW-26	03/22/2017	ND	4.0000		
Copper, total	ug/L	MW-26	08/24/2017	ND	4.0000		
Copper, total	ug/L	MW-26	02/26/2018	ND	10.0000	4.0000	**
Copper, total	ug/L	MW-26	08/29/2018	ND	4.0000		
Copper, total	ug/L	MW-26	03/18/2019	ND	4.0000		
Copper, total	ug/L	MW-26	09/10/2019	ND	4.0000		
Copper, total	ug/L	MW-26	03/25/2020	ND	4.0000		
Copper, total	ug/L	MW-26	09/04/2020	ND	4.0000		
Copper, total	ug/L	MW-26	03/02/2021	ND	4.0000		
Copper, total	ug/L	MW-26	09/02/2021	ND	4.0000		
Copper, total	ug/L	MW-26	03/02/2022	ND	4.0000		
Copper, total	ug/L	MW-26	08/29/2022	ND	4.0000		
Copper, total	ug/L	MW-26	03/23/2023	ND	4.0000		
Copper, total	ug/L	MW-26	09/25/2023		8.4000		
Copper, total	ug/L	MW-26	03/05/2024	ND	4.0000		
Copper, total	ug/L	MW-26	09/30/2024	ND	4.0000		
Copper, total	ug/L	MW-26	03/06/2025	ND	4.0000		
Lead, total	ug/L	MW-26	09/15/2014	ND	4.0000		
Lead, total	ug/L	MW-26	01/14/2015	ND	4.0000		
Lead, total	ug/L	MW-26	03/06/2015	ND	4.0000		
Lead, total	ug/L	MW-26	06/16/2015	ND	4.0000		
Lead, total	ug/L	MW-26	08/24/2015	ND	4.0000		
Lead, total	ug/L	MW-26	03/01/2016	ND	4.0000		
Lead, total	ug/L	MW-26	09/09/2016	ND	4.0000		
Lead, total	ug/L	MW-26	03/22/2017	ND	4.0000		
Lead, total	ug/L	MW-26	08/24/2017	ND	4.0000		
Lead, total	ug/L	MW-26	02/26/2018	ND	10.0000	4.0000	**
Lead, total	ug/L	MW-26	08/29/2018	ND	4.0000		
Lead, total	ug/L	MW-26	03/18/2019	ND	4.0000		
Lead, total	ug/L	MW-26	09/10/2019	ND	4.0000		
Lead, total	ug/L	MW-26	03/25/2020	ND	4.0000		
Lead, total	ug/L	MW-26	09/04/2020	ND	4.0000		
Lead, total	ug/L	MW-26	03/02/2021	ND	4.0000		
Lead, total	ug/L	MW-26	09/02/2021	ND	4.0000		
Lead, total	ug/L	MW-26	03/02/2022	ND	4.0000		
Lead, total	ug/L	MW-26	08/29/2022	ND	4.0000		
Lead, total	ug/L	MW-26	03/23/2023	ND	4.0000		
Lead, total	ug/L	MW-26	09/25/2023	ND	4.0000		
Lead, total	ug/L	MW-26	03/05/2024	ND	4.0000		
Lead, total	ug/L	MW-26	09/30/2024	ND	4.0000		
Lead, total	ug/L	MW-26	03/06/2025	ND	4.0000		
Nickel, total	ug/L	MW-26	09/15/2014	ND	4.0000		
Nickel, total	ug/L	MW-26	01/14/2015	ND	4.0000		
Nickel, total	ug/L	MW-26	03/06/2015	ND	4.0000		
Nickel, total	ug/L	MW-26	06/16/2015	ND	4.0000		
Nickel, total	ug/L	MW-26	08/24/2015	ND	4.0000		
Nickel, total	ug/L	MW-26	03/01/2016	ND	4.0000		
Nickel, total	ug/L	MW-26	09/09/2016	ND	4.0000		
Nickel, total	ug/L	MW-26	03/22/2017	ND	4.0000		
Nickel, total	ug/L	MW-26	08/24/2017	ND	4.0000		
Nickel, total	ug/L	MW-26	02/26/2018	ND	10.0000	4.0000	**
Nickel, total	ug/L	MW-26	08/29/2018	ND	8.0000	4.0000	**
Nickel, total	ug/L	MW-26	03/18/2019	ND	4.0000		
Nickel, total	ug/L	MW-26	09/10/2019	ND	4.0000		
Nickel, total	ug/L	MW-26	03/25/2020	ND	4.0000		
Nickel, total	ug/L	MW-26	09/04/2020	ND	4.0000		
Nickel, total	ug/L	MW-26	03/02/2021	ND	4.0000		

* - 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, total	ug/L	MW-26	09/02/2021	ND	4.0000		
Nickel, total	ug/L	MW-26	03/02/2022	ND	4.0000		
Nickel, total	ug/L	MW-26	08/29/2022	ND	4.0000		
Nickel, total	ug/L	MW-26	03/23/2023	ND	4.0000		
Nickel, total	ug/L	MW-26	09/25/2023	ND	4.0000		
Nickel, total	ug/L	MW-26	03/05/2024	ND	4.0000		
Nickel, total	ug/L	MW-26	09/30/2024	ND	4.0000		
Nickel, total	ug/L	MW-26	03/06/2025	ND	4.0000		
Selenium, total	ug/L	MW-26	09/15/2014		4.9000		
Selenium, total	ug/L	MW-26	01/14/2015	ND	4.0000		
Selenium, total	ug/L	MW-26	03/06/2015	ND	4.0000		
Selenium, total	ug/L	MW-26	06/16/2015		6.3000		
Selenium, total	ug/L	MW-26	08/24/2015		4.9000		
Selenium, total	ug/L	MW-26	03/01/2016		4.8000		
Selenium, total	ug/L	MW-26	09/09/2016	ND	4.0000		
Selenium, total	ug/L	MW-26	03/22/2017	ND	4.0000		
Selenium, total	ug/L	MW-26	08/24/2017	ND	4.0000		
Selenium, total	ug/L	MW-26	02/26/2018		10.7000		
Selenium, total	ug/L	MW-26	08/29/2018	ND	4.0000		
Selenium, total	ug/L	MW-26	03/18/2019	ND	4.0000		
Selenium, total	ug/L	MW-26	09/10/2019	ND	4.0000		
Selenium, total	ug/L	MW-26	03/25/2020		6.1000		
Selenium, total	ug/L	MW-26	09/04/2020	ND	4.0000		
Selenium, total	ug/L	MW-26	03/02/2021		10.8000		
Selenium, total	ug/L	MW-26	09/02/2021	ND	4.0000		
Selenium, total	ug/L	MW-26	03/02/2022		10.5000		
Selenium, total	ug/L	MW-26	08/29/2022		4.1000		
Selenium, total	ug/L	MW-26	03/23/2023		10.2000		
Selenium, total	ug/L	MW-26	09/25/2023	ND	4.0000		
Selenium, total	ug/L	MW-26	03/05/2024	ND	4.0000		
Selenium, total	ug/L	MW-26	09/30/2024	ND	4.0000		
Selenium, total	ug/L	MW-26	03/06/2025		12.4000		
Silver, total	ug/L	MW-26	09/15/2014	ND	4.0000		
Silver, total	ug/L	MW-26	01/14/2015	ND	4.0000		
Silver, total	ug/L	MW-26	03/06/2015	ND	4.0000		
Silver, total	ug/L	MW-26	06/16/2015	ND	4.0000		
Silver, total	ug/L	MW-26	08/24/2015	ND	4.0000		
Silver, total	ug/L	MW-26	03/01/2016	ND	4.0000		
Silver, total	ug/L	MW-26	09/09/2016	ND	4.0000		
Silver, total	ug/L	MW-26	03/22/2017	ND	4.0000		
Silver, total	ug/L	MW-26	08/24/2017	ND	4.0000		
Silver, total	ug/L	MW-26	02/26/2018	ND	10.0000	4.0000	**
Silver, total	ug/L	MW-26	08/29/2018	ND	8.0000	4.0000	**
Silver, total	ug/L	MW-26	03/18/2019	ND	4.0000		
Silver, total	ug/L	MW-26	09/10/2019	ND	4.0000		
Silver, total	ug/L	MW-26	03/25/2020	ND	4.0000		
Silver, total	ug/L	MW-26	09/04/2020	ND	4.0000		
Silver, total	ug/L	MW-26	03/02/2021	ND	4.0000		
Silver, total	ug/L	MW-26	09/02/2021	ND	4.0000		
Silver, total	ug/L	MW-26	03/02/2022	ND	4.0000		
Silver, total	ug/L	MW-26	08/29/2022	ND	4.0000		
Silver, total	ug/L	MW-26	03/23/2023	ND	4.0000		
Silver, total	ug/L	MW-26	09/25/2023	ND	4.0000		
Silver, total	ug/L	MW-26	03/05/2024	ND	4.0000		
Silver, total	ug/L	MW-26	09/30/2024	ND	4.0000		
Silver, total	ug/L	MW-26	03/06/2025	ND	4.0000		
Thallium, total	ug/L	MW-26	09/15/2014	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-26	01/14/2015	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-26	03/06/2015	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-26	06/16/2015	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-26	08/24/2015	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-26	03/01/2016	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-26	09/09/2016	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-26	03/22/2017	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-26	08/24/2017	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-26	02/26/2018	ND	10.0000		*
Thallium, total	ug/L	MW-26	08/29/2018	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-26	03/18/2019	ND	2.0000		
Thallium, total	ug/L	MW-26	09/10/2019	ND	2.0000		
Thallium, total	ug/L	MW-26	03/25/2020	ND	2.0000		
Thallium, total	ug/L	MW-26	09/04/2020	ND	2.0000		
Thallium, total	ug/L	MW-26	03/02/2021	ND	2.0000		
Thallium, total	ug/L	MW-26	09/02/2021	ND	2.0000		
Thallium, total	ug/L	MW-26	03/02/2022	ND	2.0000		

* - 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, total	ug/L	MW-26	08/29/2022	ND	2.0000		
Thallium, total	ug/L	MW-26	03/23/2023	ND	2.0000		
Thallium, total	ug/L	MW-26	09/25/2023	ND	2.0000		
Thallium, total	ug/L	MW-26	03/05/2024	ND	2.0000		
Thallium, total	ug/L	MW-26	09/30/2024	ND	2.0000		
Thallium, total	ug/L	MW-26	03/06/2025	ND	2.0000		
Vanadium, total	ug/L	MW-26	09/15/2014	ND	20.0000		
Vanadium, total	ug/L	MW-26	01/14/2015	ND	20.0000		
Vanadium, total	ug/L	MW-26	03/06/2015	ND	20.0000		
Vanadium, total	ug/L	MW-26	06/16/2015	ND	20.0000		
Vanadium, total	ug/L	MW-26	08/24/2015	ND	20.0000		
Vanadium, total	ug/L	MW-26	03/01/2016	ND	20.0000		
Vanadium, total	ug/L	MW-26	09/09/2016	ND	20.0000		
Vanadium, total	ug/L	MW-26	03/22/2017	ND	20.0000		
Vanadium, total	ug/L	MW-26	08/24/2017	ND	20.0000		
Vanadium, total	ug/L	MW-26	02/26/2018	ND	50.0000	20.0000	**
Vanadium, total	ug/L	MW-26	08/29/2018	ND	20.0000		
Vanadium, total	ug/L	MW-26	03/18/2019	ND	20.0000		
Vanadium, total	ug/L	MW-26	09/10/2019	ND	20.0000		
Vanadium, total	ug/L	MW-26	03/25/2020	ND	20.0000		
Vanadium, total	ug/L	MW-26	09/04/2020	ND	20.0000		
Vanadium, total	ug/L	MW-26	03/02/2021	ND	20.0000		
Vanadium, total	ug/L	MW-26	09/02/2021	ND	20.0000		
Vanadium, total	ug/L	MW-26	03/02/2022	ND	20.0000		
Vanadium, total	ug/L	MW-26	08/29/2022	ND	20.0000		
Vanadium, total	ug/L	MW-26	03/23/2023	ND	20.0000		
Vanadium, total	ug/L	MW-26	09/25/2023	ND	20.0000		
Vanadium, total	ug/L	MW-26	03/05/2024	ND	20.0000		
Vanadium, total	ug/L	MW-26	09/30/2024	ND	20.0000		
Vanadium, total	ug/L	MW-26	03/06/2025	ND	20.0000		
Zinc, total	ug/L	MW-26	09/15/2014		9.2000		
Zinc, total	ug/L	MW-26	01/14/2015	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-26	03/06/2015	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-26	06/16/2015	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-26	08/24/2015	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-26	03/01/2016	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-26	09/09/2016	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-26	03/22/2017	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-26	08/24/2017	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-26	02/26/2018	ND	20.0000		
Zinc, total	ug/L	MW-26	08/29/2018		182.0000		*
Zinc, total	ug/L	MW-26	03/18/2019	ND	20.0000		
Zinc, total	ug/L	MW-26	09/10/2019	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-26	03/25/2020		38.0000		
Zinc, total	ug/L	MW-26	09/04/2020	ND	20.0000		
Zinc, total	ug/L	MW-26	03/02/2021	ND	20.0000		
Zinc, total	ug/L	MW-26	09/02/2021	ND	20.0000		
Zinc, total	ug/L	MW-26	03/02/2022	ND	20.0000		
Zinc, total	ug/L	MW-26	08/29/2022	ND	20.0000		
Zinc, total	ug/L	MW-26	03/23/2023	ND	20.0000		
Zinc, total	ug/L	MW-26	09/25/2023	ND	20.0000		
Zinc, total	ug/L	MW-26	03/05/2024	ND	20.0000		
Zinc, total	ug/L	MW-26	09/30/2024	ND	20.0000		
Zinc, total	ug/L	MW-26	03/06/2025	ND	20.0000		
Antimony, total	ug/L	MW-33	09/15/2014	ND	2.0000		
Antimony, total	ug/L	MW-33	03/06/2015	ND	2.0000		
Antimony, total	ug/L	MW-33	08/24/2015	ND	2.0000		
Antimony, total	ug/L	MW-33	03/01/2016	ND	2.0000		
Antimony, total	ug/L	MW-33	09/09/2016	ND	2.0000		
Antimony, total	ug/L	MW-33	03/22/2017	ND	2.0000		
Antimony, total	ug/L	MW-33	08/24/2017	ND	2.0000		
Antimony, total	ug/L	MW-33	02/26/2018	ND	2.0000		
Antimony, total	ug/L	MW-33	08/29/2018	ND	2.0000		
Antimony, total	ug/L	MW-33	03/18/2019	ND	2.0000		
Antimony, total	ug/L	MW-33	09/10/2019	ND	2.0000		
Antimony, total	ug/L	MW-33	03/25/2020	ND	2.0000		
Antimony, total	ug/L	MW-33	09/04/2020	ND	2.0000		
Antimony, total	ug/L	MW-33	03/02/2021	ND	2.0000		
Antimony, total	ug/L	MW-33	09/02/2021	ND	2.0000		
Antimony, total	ug/L	MW-33	03/02/2022	ND	2.0000		
Antimony, total	ug/L	MW-33	08/29/2022	ND	2.0000		
Antimony, total	ug/L	MW-33	03/23/2023	ND	2.0000		
Antimony, total	ug/L	MW-33	09/25/2023	ND	2.0000		
Antimony, total	ug/L	MW-33	03/05/2024	ND	2.0000		

* - 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	
Antimony, total	ug/L	MW-33	09/30/2024	ND	2.0000		
Antimony, total	ug/L	MW-33	03/06/2025	ND	2.0000		
Arsenic, total	ug/L	MW-33	09/15/2014	ND	4.0000		
Arsenic, total	ug/L	MW-33	03/06/2015	ND	4.0000		
Arsenic, total	ug/L	MW-33	08/24/2015	ND	4.0000		
Arsenic, total	ug/L	MW-33	03/01/2016	ND	4.0000		
Arsenic, total	ug/L	MW-33	09/09/2016	ND	4.0000		
Arsenic, total	ug/L	MW-33	03/22/2017	ND	4.0000		
Arsenic, total	ug/L	MW-33	08/24/2017	ND	4.0000		
Arsenic, total	ug/L	MW-33	02/26/2018	ND	4.0000		
Arsenic, total	ug/L	MW-33	08/29/2018	ND	4.0000		
Arsenic, total	ug/L	MW-33	03/18/2019	ND	4.0000		
Arsenic, total	ug/L	MW-33	09/10/2019	ND	4.0000		
Arsenic, total	ug/L	MW-33	03/25/2020	ND	4.0000		
Arsenic, total	ug/L	MW-33	09/04/2020	ND	4.0000		
Arsenic, total	ug/L	MW-33	03/02/2021	ND	4.0000		
Arsenic, total	ug/L	MW-33	09/02/2021	ND	4.0000		
Arsenic, total	ug/L	MW-33	03/02/2022	ND	4.0000		
Arsenic, total	ug/L	MW-33	08/29/2022	ND	4.0000		
Arsenic, total	ug/L	MW-33	03/23/2023	ND	4.0000		
Arsenic, total	ug/L	MW-33	09/25/2023	ND	4.0000		
Arsenic, total	ug/L	MW-33	03/05/2024	ND	4.0000		
Arsenic, total	ug/L	MW-33	09/30/2024	ND	4.0000		
Arsenic, total	ug/L	MW-33	03/06/2025	ND	4.0000		
Barium, total	ug/L	MW-33	09/15/2014		122.0000		
Barium, total	ug/L	MW-33	03/06/2015		112.0000		
Barium, total	ug/L	MW-33	08/24/2015		131.0000		
Barium, total	ug/L	MW-33	03/01/2016		98.9000		
Barium, total	ug/L	MW-33	09/09/2016		158.0000		
Barium, total	ug/L	MW-33	03/22/2017		274.0000		
Barium, total	ug/L	MW-33	06/07/2017		129.0000		
Barium, total	ug/L	MW-33	08/24/2017		163.0000		
Barium, total	ug/L	MW-33	02/26/2018		171.0000		
Barium, total	ug/L	MW-33	08/29/2018		162.0000		
Barium, total	ug/L	MW-33	03/18/2019		282.0000		
Barium, total	ug/L	MW-33	09/10/2019		214.0000		
Barium, total	ug/L	MW-33	03/25/2020		144.0000		
Barium, total	ug/L	MW-33	09/04/2020		209.0000		
Barium, total	ug/L	MW-33	03/02/2021		115.0000		
Barium, total	ug/L	MW-33	09/02/2021		194.0000		
Barium, total	ug/L	MW-33	03/02/2022		189.0000		
Barium, total	ug/L	MW-33	08/29/2022		174.0000		
Barium, total	ug/L	MW-33	03/23/2023		82.7000		
Barium, total	ug/L	MW-33	09/25/2023		147.0000		
Barium, total	ug/L	MW-33	03/05/2024		77.3000		
Barium, total	ug/L	MW-33	09/30/2024		167.0000		
Barium, total	ug/L	MW-33	03/06/2025		169.0000		
Beryllium, total	ug/L	MW-33	09/15/2014	ND	4.0000		
Beryllium, total	ug/L	MW-33	03/06/2015	ND	4.0000		
Beryllium, total	ug/L	MW-33	08/24/2015	ND	4.0000		
Beryllium, total	ug/L	MW-33	03/01/2016	ND	4.0000		
Beryllium, total	ug/L	MW-33	09/09/2016	ND	4.0000		
Beryllium, total	ug/L	MW-33	03/22/2017	ND	4.0000		
Beryllium, total	ug/L	MW-33	08/24/2017	ND	4.0000		
Beryllium, total	ug/L	MW-33	02/26/2018	ND	4.0000		
Beryllium, total	ug/L	MW-33	08/29/2018	ND	4.0000		
Beryllium, total	ug/L	MW-33	03/18/2019	ND	4.0000		
Beryllium, total	ug/L	MW-33	09/10/2019	ND	4.0000		
Beryllium, total	ug/L	MW-33	03/25/2020	ND	4.0000		
Beryllium, total	ug/L	MW-33	09/04/2020	ND	4.0000		
Beryllium, total	ug/L	MW-33	03/02/2021	ND	4.0000		
Beryllium, total	ug/L	MW-33	09/02/2021	ND	4.0000		
Beryllium, total	ug/L	MW-33	03/02/2022	ND	4.0000		
Beryllium, total	ug/L	MW-33	08/29/2022	ND	4.0000		
Beryllium, total	ug/L	MW-33	03/23/2023	ND	4.0000		
Beryllium, total	ug/L	MW-33	09/25/2023	ND	4.0000		
Beryllium, total	ug/L	MW-33	03/05/2024	ND	4.0000		
Beryllium, total	ug/L	MW-33	09/30/2024	ND	4.0000		
Beryllium, total	ug/L	MW-33	03/06/2025	ND	4.0000		
Cadmium, total	ug/L	MW-33	09/15/2014	ND	0.8000		
Cadmium, total	ug/L	MW-33	03/06/2015	ND	0.8000		
Cadmium, total	ug/L	MW-33	08/24/2015	ND	0.8000		
Cadmium, total	ug/L	MW-33	03/01/2016	ND	0.8000		
Cadmium, total	ug/L	MW-33	09/09/2016	ND	0.8000		

* - 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, total	ug/L	MW-33	03/22/2017	ND	0.8000		
Cadmium, total	ug/L	MW-33	08/24/2017	ND	0.8000		
Cadmium, total	ug/L	MW-33	02/26/2018	ND	0.8000		
Cadmium, total	ug/L	MW-33	08/29/2018	ND	0.8000		
Cadmium, total	ug/L	MW-33	03/18/2019	ND	0.8000		
Cadmium, total	ug/L	MW-33	09/10/2019	ND	0.8000		
Cadmium, total	ug/L	MW-33	03/25/2020	ND	0.8000		
Cadmium, total	ug/L	MW-33	09/04/2020	ND	0.8000		
Cadmium, total	ug/L	MW-33	03/02/2021	ND	0.8000		
Cadmium, total	ug/L	MW-33	09/02/2021	ND	0.8000		
Cadmium, total	ug/L	MW-33	03/02/2022	ND	0.8000		
Cadmium, total	ug/L	MW-33	08/29/2022	ND	0.8000		
Cadmium, total	ug/L	MW-33	03/23/2023	ND	0.8000		
Cadmium, total	ug/L	MW-33	09/25/2023	ND	0.8000		
Cadmium, total	ug/L	MW-33	03/05/2024	ND	0.8000		
Cadmium, total	ug/L	MW-33	09/30/2024	ND	0.8000		
Cadmium, total	ug/L	MW-33	03/06/2025	ND	0.8000		
Chromium, total	ug/L	MW-33	09/15/2014	ND	8.0000		
Chromium, total	ug/L	MW-33	03/06/2015	ND	8.0000		
Chromium, total	ug/L	MW-33	08/24/2015	ND	8.0000		
Chromium, total	ug/L	MW-33	03/01/2016	ND	8.0000		
Chromium, total	ug/L	MW-33	09/09/2016	ND	8.0000		
Chromium, total	ug/L	MW-33	03/22/2017	ND	8.0000		
Chromium, total	ug/L	MW-33	08/24/2017	ND	8.0000		
Chromium, total	ug/L	MW-33	02/26/2018	ND	8.0000		
Chromium, total	ug/L	MW-33	08/29/2018	ND	8.0000		
Chromium, total	ug/L	MW-33	03/18/2019	ND	8.0000		
Chromium, total	ug/L	MW-33	09/10/2019	ND	8.0000		
Chromium, total	ug/L	MW-33	03/25/2020	ND	8.0000		
Chromium, total	ug/L	MW-33	09/04/2020	ND	8.0000		
Chromium, total	ug/L	MW-33	03/02/2021	ND	8.0000		
Chromium, total	ug/L	MW-33	09/02/2021	ND	8.0000		
Chromium, total	ug/L	MW-33	03/02/2022	ND	8.0000		
Chromium, total	ug/L	MW-33	08/29/2022	ND	8.0000		
Chromium, total	ug/L	MW-33	03/23/2023	ND	8.0000		
Chromium, total	ug/L	MW-33	09/25/2023	ND	8.0000		
Chromium, total	ug/L	MW-33	03/05/2024	ND	8.0000		
Chromium, total	ug/L	MW-33	09/30/2024	ND	8.0000		
Chromium, total	ug/L	MW-33	03/06/2025	ND	8.0000		
Cobalt, total	ug/L	MW-33	09/15/2014	ND	0.8000		
Cobalt, total	ug/L	MW-33	03/06/2015	ND	0.8000		
Cobalt, total	ug/L	MW-33	08/24/2015	ND	0.8000		
Cobalt, total	ug/L	MW-33	03/01/2016	ND	0.8000		
Cobalt, total	ug/L	MW-33	09/09/2016	ND	0.8000		
Cobalt, total	ug/L	MW-33	03/22/2017	ND	0.8000		
Cobalt, total	ug/L	MW-33	08/24/2017	ND	0.8000		
Cobalt, total	ug/L	MW-33	02/26/2018	ND	0.8000		
Cobalt, total	ug/L	MW-33	08/29/2018	ND	0.8000		
Cobalt, total	ug/L	MW-33	03/18/2019	ND	0.8000		
Cobalt, total	ug/L	MW-33	09/10/2019	ND	0.8000		
Cobalt, total	ug/L	MW-33	03/25/2020	ND	0.8000		
Cobalt, total	ug/L	MW-33	09/04/2020	ND	0.4000	0.8000	**
Cobalt, total	ug/L	MW-33	03/02/2021		0.9000		
Cobalt, total	ug/L	MW-33	09/02/2021		2.6000		
Cobalt, total	ug/L	MW-33	03/02/2022	ND	0.4000	0.8000	**
Cobalt, total	ug/L	MW-33	08/29/2022	ND	0.4000	0.8000	**
Cobalt, total	ug/L	MW-33	03/23/2023	ND	0.4000	0.8000	**
Cobalt, total	ug/L	MW-33	09/25/2023	ND	0.4000	0.8000	**
Cobalt, total	ug/L	MW-33	03/05/2024	ND	0.4000	0.8000	**
Cobalt, total	ug/L	MW-33	09/30/2024	ND	0.4000	0.8000	**
Cobalt, total	ug/L	MW-33	03/06/2025	ND	0.4000	0.8000	**
Copper, total	ug/L	MW-33	09/15/2014	ND	4.0000		
Copper, total	ug/L	MW-33	03/06/2015	ND	4.0000		
Copper, total	ug/L	MW-33	08/24/2015	ND	4.0000		
Copper, total	ug/L	MW-33	03/01/2016	ND	4.0000		
Copper, total	ug/L	MW-33	09/09/2016	ND	4.0000		
Copper, total	ug/L	MW-33	03/22/2017	ND	4.0000		
Copper, total	ug/L	MW-33	08/24/2017	ND	4.0000		
Copper, total	ug/L	MW-33	02/26/2018	ND	4.0000		
Copper, total	ug/L	MW-33	08/29/2018	ND	4.0000		
Copper, total	ug/L	MW-33	03/18/2019	ND	4.0000		
Copper, total	ug/L	MW-33	09/10/2019	ND	4.0000		
Copper, total	ug/L	MW-33	03/25/2020	ND	4.0000		
Copper, total	ug/L	MW-33	09/04/2020	ND	4.0000		

* - 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	
Copper, total	ug/L	MW-33	03/02/2021	ND	4.0000		
Copper, total	ug/L	MW-33	09/02/2021	ND	4.0000		
Copper, total	ug/L	MW-33	03/02/2022	ND	4.0000		
Copper, total	ug/L	MW-33	08/29/2022	ND	4.0000		
Copper, total	ug/L	MW-33	03/23/2023	ND	4.0000		
Copper, total	ug/L	MW-33	09/25/2023	ND	4.0000		
Copper, total	ug/L	MW-33	03/05/2024	ND	4.0000		
Copper, total	ug/L	MW-33	09/30/2024	ND	4.0000		
Copper, total	ug/L	MW-33	03/06/2025	ND	4.0000		
Lead, total	ug/L	MW-33	09/15/2014	ND	4.0000		
Lead, total	ug/L	MW-33	03/06/2015	ND	4.0000		
Lead, total	ug/L	MW-33	08/24/2015	ND	4.0000		
Lead, total	ug/L	MW-33	03/01/2016	ND	4.0000		
Lead, total	ug/L	MW-33	09/09/2016	ND	4.0000		
Lead, total	ug/L	MW-33	03/22/2017	ND	4.0000		
Lead, total	ug/L	MW-33	08/24/2017	ND	4.0000		
Lead, total	ug/L	MW-33	02/26/2018	ND	4.0000		
Lead, total	ug/L	MW-33	08/29/2018	ND	4.0000		
Lead, total	ug/L	MW-33	03/18/2019	ND	4.0000		
Lead, total	ug/L	MW-33	09/10/2019	ND	4.0000		
Lead, total	ug/L	MW-33	03/25/2020	ND	4.0000		
Lead, total	ug/L	MW-33	09/04/2020	ND	4.0000		
Lead, total	ug/L	MW-33	03/02/2021	ND	4.0000		
Lead, total	ug/L	MW-33	09/02/2021	ND	4.0000		
Lead, total	ug/L	MW-33	03/02/2022	ND	4.0000		
Lead, total	ug/L	MW-33	08/29/2022	ND	4.0000		
Lead, total	ug/L	MW-33	03/23/2023	ND	4.0000		
Lead, total	ug/L	MW-33	09/25/2023	ND	4.0000		
Lead, total	ug/L	MW-33	03/05/2024	ND	4.0000		
Lead, total	ug/L	MW-33	09/30/2024	ND	4.0000		
Lead, total	ug/L	MW-33	03/06/2025	ND	4.0000		
Nickel, total	ug/L	MW-33	09/15/2014	ND	4.0000		
Nickel, total	ug/L	MW-33	03/06/2015	ND	4.0000		
Nickel, total	ug/L	MW-33	08/24/2015	ND	4.0000		
Nickel, total	ug/L	MW-33	03/01/2016	ND	4.0000		
Nickel, total	ug/L	MW-33	09/09/2016	ND	4.0000		
Nickel, total	ug/L	MW-33	03/22/2017	ND	4.0000		
Nickel, total	ug/L	MW-33	08/24/2017	ND	4.0000		
Nickel, total	ug/L	MW-33	02/26/2018	ND	4.0000		
Nickel, total	ug/L	MW-33	08/29/2018	ND	8.0000	4.0000	**
Nickel, total	ug/L	MW-33	03/18/2019	ND	4.0000		
Nickel, total	ug/L	MW-33	09/10/2019	ND	4.0000		
Nickel, total	ug/L	MW-33	03/25/2020	ND	4.0000		
Nickel, total	ug/L	MW-33	09/04/2020	ND	4.0000		
Nickel, total	ug/L	MW-33	03/02/2021	ND	4.0000		
Nickel, total	ug/L	MW-33	09/02/2021	ND	4.0000		
Nickel, total	ug/L	MW-33	03/02/2022	ND	4.0000		
Nickel, total	ug/L	MW-33	08/29/2022	ND	4.0000		
Nickel, total	ug/L	MW-33	03/23/2023	ND	4.0000		
Nickel, total	ug/L	MW-33	09/25/2023	ND	4.0000		
Nickel, total	ug/L	MW-33	03/05/2024	ND	4.0000		
Nickel, total	ug/L	MW-33	09/30/2024	ND	4.0000		
Nickel, total	ug/L	MW-33	03/06/2025	ND	4.0000		
Selenium, total	ug/L	MW-33	09/15/2014	ND	4.0000		
Selenium, total	ug/L	MW-33	03/06/2015	ND	4.0000		
Selenium, total	ug/L	MW-33	08/24/2015	ND	4.0000		
Selenium, total	ug/L	MW-33	03/01/2016	ND	4.0000		
Selenium, total	ug/L	MW-33	09/09/2016	ND	4.0000		
Selenium, total	ug/L	MW-33	03/22/2017		4.7000		
Selenium, total	ug/L	MW-33	08/24/2017	ND	4.0000		
Selenium, total	ug/L	MW-33	02/26/2018	ND	4.0000		
Selenium, total	ug/L	MW-33	08/29/2018	ND	4.0000		
Selenium, total	ug/L	MW-33	03/18/2019	ND	4.0000		
Selenium, total	ug/L	MW-33	09/10/2019	ND	4.0000		
Selenium, total	ug/L	MW-33	03/25/2020	ND	4.0000		
Selenium, total	ug/L	MW-33	09/04/2020	ND	4.0000		
Selenium, total	ug/L	MW-33	03/02/2021	ND	4.0000		
Selenium, total	ug/L	MW-33	09/02/2021	ND	4.0000		
Selenium, total	ug/L	MW-33	03/02/2022	ND	4.0000		
Selenium, total	ug/L	MW-33	08/29/2022	ND	4.0000		
Selenium, total	ug/L	MW-33	03/23/2023	ND	4.0000		
Selenium, total	ug/L	MW-33	09/25/2023	ND	4.0000		
Selenium, total	ug/L	MW-33	03/05/2024	ND	4.0000		
Selenium, total	ug/L	MW-33	09/30/2024	ND	4.0000		
Selenium, total	ug/L	MW-33	03/06/2025	ND	4.0000		

* - 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, total	ug/L	MW-33	03/06/2025	ND	4.0000		
Silver, total	ug/L	MW-33	09/15/2014	ND	4.0000		
Silver, total	ug/L	MW-33	03/06/2015	ND	4.0000		
Silver, total	ug/L	MW-33	08/24/2015	ND	4.0000		
Silver, total	ug/L	MW-33	03/01/2016	ND	4.0000		
Silver, total	ug/L	MW-33	09/09/2016	ND	4.0000		
Silver, total	ug/L	MW-33	03/22/2017	ND	4.0000		
Silver, total	ug/L	MW-33	08/24/2017	ND	4.0000		
Silver, total	ug/L	MW-33	02/26/2018	ND	4.0000		
Silver, total	ug/L	MW-33	08/29/2018	ND	8.0000	4.0000	**
Silver, total	ug/L	MW-33	03/18/2019	ND	4.0000		
Silver, total	ug/L	MW-33	09/10/2019	ND	4.0000		
Silver, total	ug/L	MW-33	03/25/2020	ND	4.0000		
Silver, total	ug/L	MW-33	09/04/2020	ND	4.0000		
Silver, total	ug/L	MW-33	03/02/2021	ND	4.0000		
Silver, total	ug/L	MW-33	09/02/2021	ND	4.0000		
Silver, total	ug/L	MW-33	03/02/2022	ND	4.0000		
Silver, total	ug/L	MW-33	08/29/2022	ND	4.0000		
Silver, total	ug/L	MW-33	03/23/2023	ND	4.0000		
Silver, total	ug/L	MW-33	09/25/2023	ND	4.0000		
Silver, total	ug/L	MW-33	03/05/2024	ND	4.0000		
Silver, total	ug/L	MW-33	09/30/2024	ND	4.0000		
Silver, total	ug/L	MW-33	03/06/2025	ND	4.0000		
Thallium, total	ug/L	MW-33	09/15/2014	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-33	03/06/2015	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-33	08/24/2015	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-33	03/01/2016	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-33	09/09/2016	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-33	03/22/2017	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-33	08/24/2017	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-33	02/26/2018	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-33	08/29/2018	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-33	03/18/2019	ND	2.0000		
Thallium, total	ug/L	MW-33	09/10/2019	ND	2.0000		
Thallium, total	ug/L	MW-33	03/25/2020	ND	2.0000		
Thallium, total	ug/L	MW-33	09/04/2020	ND	2.0000		
Thallium, total	ug/L	MW-33	03/02/2021	ND	2.0000		
Thallium, total	ug/L	MW-33	09/02/2021	ND	2.0000		
Thallium, total	ug/L	MW-33	03/02/2022	ND	2.0000		
Thallium, total	ug/L	MW-33	08/29/2022	ND	2.0000		
Thallium, total	ug/L	MW-33	03/23/2023	ND	2.0000		
Thallium, total	ug/L	MW-33	09/25/2023	ND	2.0000		
Thallium, total	ug/L	MW-33	03/05/2024	ND	2.0000		
Thallium, total	ug/L	MW-33	09/30/2024	ND	2.0000		
Thallium, total	ug/L	MW-33	03/06/2025	ND	2.0000		
Vanadium, total	ug/L	MW-33	09/15/2014	ND	20.0000		
Vanadium, total	ug/L	MW-33	03/06/2015	ND	20.0000		
Vanadium, total	ug/L	MW-33	08/24/2015	ND	20.0000		
Vanadium, total	ug/L	MW-33	03/01/2016	ND	20.0000		
Vanadium, total	ug/L	MW-33	09/09/2016	ND	20.0000		
Vanadium, total	ug/L	MW-33	03/22/2017	ND	20.0000		
Vanadium, total	ug/L	MW-33	08/24/2017	ND	20.0000		
Vanadium, total	ug/L	MW-33	02/26/2018	ND	20.0000		
Vanadium, total	ug/L	MW-33	08/29/2018	ND	20.0000		
Vanadium, total	ug/L	MW-33	03/18/2019	ND	20.0000		
Vanadium, total	ug/L	MW-33	09/10/2019	ND	20.0000		
Vanadium, total	ug/L	MW-33	03/25/2020	ND	20.0000		
Vanadium, total	ug/L	MW-33	09/04/2020	ND	20.0000		
Vanadium, total	ug/L	MW-33	03/02/2021	ND	20.0000		
Vanadium, total	ug/L	MW-33	09/02/2021	ND	20.0000		
Vanadium, total	ug/L	MW-33	03/02/2022	ND	20.0000		
Vanadium, total	ug/L	MW-33	08/29/2022	ND	20.0000		
Vanadium, total	ug/L	MW-33	03/23/2023	ND	20.0000		
Vanadium, total	ug/L	MW-33	09/25/2023	ND	20.0000		
Vanadium, total	ug/L	MW-33	03/05/2024	ND	20.0000		
Vanadium, total	ug/L	MW-33	09/30/2024	ND	20.0000		
Vanadium, total	ug/L	MW-33	03/06/2025	ND	20.0000		
Zinc, total	ug/L	MW-33	09/15/2014		12.9000		
Zinc, total	ug/L	MW-33	03/06/2015	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-33	08/24/2015		19.1000		
Zinc, total	ug/L	MW-33	03/01/2016	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-33	09/09/2016		9.8000		
Zinc, total	ug/L	MW-33	03/22/2017	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-33	08/24/2017	ND	8.0000	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 1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Zinc, total	ug/L	MW-33	02/26/2018	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-33	08/29/2018		40.8000		
Zinc, total	ug/L	MW-33	03/18/2019		30.2000		
Zinc, total	ug/L	MW-33	09/10/2019	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-33	03/25/2020	ND	20.0000		
Zinc, total	ug/L	MW-33	09/04/2020	ND	20.0000		
Zinc, total	ug/L	MW-33	03/02/2021	ND	20.0000		
Zinc, total	ug/L	MW-33	09/02/2021	ND	20.0000		
Zinc, total	ug/L	MW-33	03/02/2022	ND	20.0000		
Zinc, total	ug/L	MW-33	08/29/2022	ND	20.0000		
Zinc, total	ug/L	MW-33	03/23/2023	ND	20.0000		
Zinc, total	ug/L	MW-33	09/25/2023	ND	20.0000		
Zinc, total	ug/L	MW-33	03/05/2024	ND	20.0000		
Zinc, total	ug/L	MW-33	09/30/2024	ND	20.0000		
Zinc, total	ug/L	MW-33	03/06/2025	ND	20.0000		
Antimony, total	ug/L	MW-37	09/15/2014	ND	2.0000		
Antimony, total	ug/L	MW-37	01/14/2015	ND	2.0000		
Antimony, total	ug/L	MW-37	03/06/2015	ND	2.0000		
Antimony, total	ug/L	MW-37	06/16/2015	ND	2.0000		
Antimony, total	ug/L	MW-37	08/24/2015	ND	2.0000		
Antimony, total	ug/L	MW-37	03/01/2016	ND	2.0000		
Antimony, total	ug/L	MW-37	09/09/2016	ND	2.0000		
Antimony, total	ug/L	MW-37	03/22/2017	ND	2.0000		
Antimony, total	ug/L	MW-37	08/24/2017	ND	2.0000		
Antimony, total	ug/L	MW-37	02/26/2018	ND	2.0000		
Antimony, total	ug/L	MW-37	08/29/2018	ND	2.0000		
Antimony, total	ug/L	MW-37	03/18/2019	ND	2.0000		
Antimony, total	ug/L	MW-37	09/10/2019	ND	2.0000		
Antimony, total	ug/L	MW-37	03/25/2020	ND	2.0000		
Antimony, total	ug/L	MW-37	09/04/2020	ND	2.0000		
Antimony, total	ug/L	MW-37	03/02/2021	ND	2.0000		
Antimony, total	ug/L	MW-37	09/02/2021	ND	2.0000		
Antimony, total	ug/L	MW-37	03/02/2022	ND	2.0000		
Antimony, total	ug/L	MW-37	08/29/2022	ND	2.0000		
Antimony, total	ug/L	MW-37	03/23/2023	ND	2.0000		
Antimony, total	ug/L	MW-37	09/25/2023	ND	2.0000		
Antimony, total	ug/L	MW-37	03/05/2024	ND	2.0000		
Antimony, total	ug/L	MW-37	09/30/2024	ND	2.0000		
Antimony, total	ug/L	MW-37	03/06/2025	ND	2.0000		
Arsenic, total	ug/L	MW-37	09/15/2014	ND	4.0000		
Arsenic, total	ug/L	MW-37	01/14/2015	ND	4.0000		
Arsenic, total	ug/L	MW-37	03/06/2015	ND	4.0000		
Arsenic, total	ug/L	MW-37	06/16/2015	ND	4.0000		
Arsenic, total	ug/L	MW-37	08/24/2015	ND	4.0000		
Arsenic, total	ug/L	MW-37	03/01/2016	ND	4.0000		
Arsenic, total	ug/L	MW-37	09/09/2016	ND	4.0000		
Arsenic, total	ug/L	MW-37	03/22/2017	ND	4.0000		
Arsenic, total	ug/L	MW-37	08/24/2017	ND	4.0000		
Arsenic, total	ug/L	MW-37	02/26/2018	ND	4.0000		
Arsenic, total	ug/L	MW-37	08/29/2018	ND	4.0000		
Arsenic, total	ug/L	MW-37	03/18/2019	ND	4.0000		
Arsenic, total	ug/L	MW-37	09/10/2019	ND	4.0000		
Arsenic, total	ug/L	MW-37	03/25/2020	ND	4.0000		
Arsenic, total	ug/L	MW-37	09/04/2020	ND	4.0000		
Arsenic, total	ug/L	MW-37	03/02/2021	ND	4.0000		
Arsenic, total	ug/L	MW-37	09/02/2021	ND	4.0000		
Arsenic, total	ug/L	MW-37	03/02/2022	ND	4.0000		
Arsenic, total	ug/L	MW-37	08/29/2022	ND	4.0000		
Arsenic, total	ug/L	MW-37	03/23/2023	ND	4.0000		
Arsenic, total	ug/L	MW-37	09/25/2023	ND	4.0000		
Arsenic, total	ug/L	MW-37	03/05/2024	ND	4.0000		
Arsenic, total	ug/L	MW-37	09/30/2024	ND	4.0000		
Arsenic, total	ug/L	MW-37	03/06/2025	ND	4.0000		
Barium, total	ug/L	MW-37	09/15/2014		95.3000		
Barium, total	ug/L	MW-37	01/14/2015		89.2000		
Barium, total	ug/L	MW-37	03/06/2015		82.1000		
Barium, total	ug/L	MW-37	06/16/2015		85.0000		
Barium, total	ug/L	MW-37	08/24/2015		69.1000		
Barium, total	ug/L	MW-37	03/01/2016		67.7000		
Barium, total	ug/L	MW-37	09/09/2016		77.6000		
Barium, total	ug/L	MW-37	03/22/2017		77.4000		
Barium, total	ug/L	MW-37	08/24/2017		82.3000		
Barium, total	ug/L	MW-37	02/26/2018		78.9000		
Barium, total	ug/L	MW-37	08/29/2018		59.2000		

* - 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, total	ug/L	MW-37	03/18/2019		61.3000		
Barium, total	ug/L	MW-37	09/10/2019		60.1000		
Barium, total	ug/L	MW-37	03/25/2020		69.1000		
Barium, total	ug/L	MW-37	09/04/2020		58.6000		
Barium, total	ug/L	MW-37	03/02/2021		64.5000		
Barium, total	ug/L	MW-37	09/02/2021		61.8000		
Barium, total	ug/L	MW-37	03/02/2022		71.0000		
Barium, total	ug/L	MW-37	08/29/2022		46.2000		
Barium, total	ug/L	MW-37	03/23/2023		60.7000		
Barium, total	ug/L	MW-37	09/25/2023		66.9000		
Barium, total	ug/L	MW-37	03/05/2024		61.8000		
Barium, total	ug/L	MW-37	09/30/2024		43.7000		
Barium, total	ug/L	MW-37	03/06/2025		62.4000		
Beryllium, total	ug/L	MW-37	09/15/2014	ND	4.0000		
Beryllium, total	ug/L	MW-37	01/14/2015	ND	4.0000		
Beryllium, total	ug/L	MW-37	03/06/2015	ND	4.0000		
Beryllium, total	ug/L	MW-37	06/16/2015	ND	4.0000		
Beryllium, total	ug/L	MW-37	08/24/2015	ND	4.0000		
Beryllium, total	ug/L	MW-37	03/01/2016	ND	4.0000		
Beryllium, total	ug/L	MW-37	09/09/2016	ND	4.0000		
Beryllium, total	ug/L	MW-37	03/22/2017	ND	4.0000		
Beryllium, total	ug/L	MW-37	08/24/2017	ND	4.0000		
Beryllium, total	ug/L	MW-37	02/26/2018	ND	4.0000		
Beryllium, total	ug/L	MW-37	08/29/2018	ND	4.0000		
Beryllium, total	ug/L	MW-37	03/18/2019	ND	4.0000		
Beryllium, total	ug/L	MW-37	09/10/2019	ND	4.0000		
Beryllium, total	ug/L	MW-37	03/25/2020	ND	4.0000		
Beryllium, total	ug/L	MW-37	09/04/2020	ND	4.0000		
Beryllium, total	ug/L	MW-37	03/02/2021	ND	4.0000		
Beryllium, total	ug/L	MW-37	09/02/2021	ND	4.0000		
Beryllium, total	ug/L	MW-37	03/02/2022	ND	4.0000		
Beryllium, total	ug/L	MW-37	08/29/2022	ND	4.0000		
Beryllium, total	ug/L	MW-37	03/23/2023	ND	4.0000		
Beryllium, total	ug/L	MW-37	09/25/2023	ND	4.0000		
Beryllium, total	ug/L	MW-37	03/05/2024	ND	4.0000		
Beryllium, total	ug/L	MW-37	09/30/2024	ND	4.0000		
Beryllium, total	ug/L	MW-37	03/06/2025	ND	4.0000		
Cadmium, total	ug/L	MW-37	09/15/2014	ND	0.8000		
Cadmium, total	ug/L	MW-37	01/14/2015	ND	0.8000		
Cadmium, total	ug/L	MW-37	03/06/2015	ND	0.8000		
Cadmium, total	ug/L	MW-37	06/16/2015	ND	0.8000		
Cadmium, total	ug/L	MW-37	08/24/2015	ND	0.8000		
Cadmium, total	ug/L	MW-37	03/01/2016	ND	0.8000		
Cadmium, total	ug/L	MW-37	09/09/2016	ND	0.8000		
Cadmium, total	ug/L	MW-37	03/22/2017	ND	0.8000		
Cadmium, total	ug/L	MW-37	08/24/2017	ND	0.8000		
Cadmium, total	ug/L	MW-37	02/26/2018	ND	0.8000		
Cadmium, total	ug/L	MW-37	08/29/2018	ND	0.8000		
Cadmium, total	ug/L	MW-37	03/18/2019	ND	0.8000		
Cadmium, total	ug/L	MW-37	09/10/2019	ND	0.8000		
Cadmium, total	ug/L	MW-37	03/25/2020	ND	0.8000		
Cadmium, total	ug/L	MW-37	09/04/2020	ND	0.8000		
Cadmium, total	ug/L	MW-37	03/02/2021	ND	0.8000		
Cadmium, total	ug/L	MW-37	09/02/2021	ND	0.8000		
Cadmium, total	ug/L	MW-37	03/02/2022	ND	0.8000		
Cadmium, total	ug/L	MW-37	08/29/2022	ND	0.8000		
Cadmium, total	ug/L	MW-37	03/23/2023	ND	0.8000		
Cadmium, total	ug/L	MW-37	09/25/2023	ND	0.8000		
Cadmium, total	ug/L	MW-37	03/05/2024	ND	0.8000		
Cadmium, total	ug/L	MW-37	09/30/2024	ND	0.8000		
Cadmium, total	ug/L	MW-37	03/06/2025	ND	0.8000		
Chromium, total	ug/L	MW-37	09/15/2014	ND	8.0000		
Chromium, total	ug/L	MW-37	01/14/2015	ND	8.0000		
Chromium, total	ug/L	MW-37	03/06/2015	ND	8.0000		
Chromium, total	ug/L	MW-37	06/16/2015	ND	8.0000		
Chromium, total	ug/L	MW-37	08/24/2015	ND	8.0000		
Chromium, total	ug/L	MW-37	03/01/2016	ND	8.0000		
Chromium, total	ug/L	MW-37	09/09/2016	ND	8.0000		
Chromium, total	ug/L	MW-37	03/22/2017	ND	8.0000		
Chromium, total	ug/L	MW-37	08/24/2017	ND	8.0000		
Chromium, total	ug/L	MW-37	02/26/2018	ND	8.0000		
Chromium, total	ug/L	MW-37	08/29/2018	ND	8.0000		
Chromium, total	ug/L	MW-37	03/18/2019	ND	8.0000		
Chromium, total	ug/L	MW-37	09/10/2019	ND	8.0000		

* - 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	
Chromium, total	ug/L	MW-37	03/25/2020	ND	8.0000		
Chromium, total	ug/L	MW-37	09/04/2020	ND	8.0000		
Chromium, total	ug/L	MW-37	03/02/2021	ND	8.0000		
Chromium, total	ug/L	MW-37	09/02/2021	ND	8.0000		
Chromium, total	ug/L	MW-37	03/02/2022	ND	8.0000		
Chromium, total	ug/L	MW-37	08/29/2022	ND	8.0000		
Chromium, total	ug/L	MW-37	03/23/2023	ND	8.0000		
Chromium, total	ug/L	MW-37	09/25/2023	ND	8.0000		
Chromium, total	ug/L	MW-37	03/05/2024	ND	8.0000		
Chromium, total	ug/L	MW-37	09/30/2024	ND	8.0000		
Chromium, total	ug/L	MW-37	03/06/2025	ND	8.0000		
Cobalt, total	ug/L	MW-37	09/15/2014	ND	0.8000		
Cobalt, total	ug/L	MW-37	01/14/2015	ND	0.8000		
Cobalt, total	ug/L	MW-37	03/06/2015	ND	0.8000		
Cobalt, total	ug/L	MW-37	06/16/2015	ND	0.8000		
Cobalt, total	ug/L	MW-37	08/24/2015	ND	0.8000		
Cobalt, total	ug/L	MW-37	03/01/2016	ND	0.8000		
Cobalt, total	ug/L	MW-37	09/09/2016	ND	0.8000		
Cobalt, total	ug/L	MW-37	03/22/2017	ND	0.8000		
Cobalt, total	ug/L	MW-37	08/24/2017	ND	0.8000		
Cobalt, total	ug/L	MW-37	02/26/2018	ND	0.8000		
Cobalt, total	ug/L	MW-37	08/29/2018	ND	0.8000		
Cobalt, total	ug/L	MW-37	03/18/2019	ND	0.8000		
Cobalt, total	ug/L	MW-37	09/10/2019	ND	0.8000		
Cobalt, total	ug/L	MW-37	03/25/2020	ND	0.8000		
Cobalt, total	ug/L	MW-37	09/04/2020	ND	0.4000	0.8000	**
Cobalt, total	ug/L	MW-37	03/02/2021		1.0000		
Cobalt, total	ug/L	MW-37	09/02/2021		1.8000		
Cobalt, total	ug/L	MW-37	03/02/2022	ND	0.4000	0.8000	**
Cobalt, total	ug/L	MW-37	08/29/2022	ND	0.4000	0.8000	**
Cobalt, total	ug/L	MW-37	03/23/2023	ND	0.4000	0.8000	**
Cobalt, total	ug/L	MW-37	09/25/2023	ND	0.4000	0.8000	**
Cobalt, total	ug/L	MW-37	03/05/2024	ND	0.4000	0.8000	**
Cobalt, total	ug/L	MW-37	09/30/2024	ND	0.4000	0.8000	**
Cobalt, total	ug/L	MW-37	03/06/2025	ND	0.4000	0.8000	**
Copper, total	ug/L	MW-37	09/15/2014	ND	4.0000		
Copper, total	ug/L	MW-37	01/14/2015	ND	4.0000		
Copper, total	ug/L	MW-37	03/06/2015	ND	4.0000		
Copper, total	ug/L	MW-37	06/16/2015	ND	4.0000		
Copper, total	ug/L	MW-37	08/24/2015	ND	4.0000		
Copper, total	ug/L	MW-37	03/01/2016	ND	4.0000		
Copper, total	ug/L	MW-37	09/09/2016	ND	4.0000		
Copper, total	ug/L	MW-37	03/22/2017	ND	4.0000		
Copper, total	ug/L	MW-37	08/24/2017	ND	4.0000		
Copper, total	ug/L	MW-37	02/26/2018	ND	4.0000		
Copper, total	ug/L	MW-37	08/29/2018	ND	4.0000		
Copper, total	ug/L	MW-37	03/18/2019	ND	4.0000		
Copper, total	ug/L	MW-37	09/10/2019	ND	4.0000		
Copper, total	ug/L	MW-37	03/25/2020	ND	4.0000		
Copper, total	ug/L	MW-37	09/04/2020	ND	4.0000		
Copper, total	ug/L	MW-37	03/02/2021	ND	4.0000		
Copper, total	ug/L	MW-37	09/02/2021	ND	4.0000		
Copper, total	ug/L	MW-37	03/02/2022	ND	4.0000		
Copper, total	ug/L	MW-37	08/29/2022	ND	4.0000		
Copper, total	ug/L	MW-37	03/23/2023	ND	4.0000		
Copper, total	ug/L	MW-37	09/25/2023	ND	4.0000		
Copper, total	ug/L	MW-37	03/05/2024	ND	4.0000		
Copper, total	ug/L	MW-37	09/30/2024	ND	4.0000		
Copper, total	ug/L	MW-37	03/06/2025	ND	4.0000		
Lead, total	ug/L	MW-37	09/15/2014	ND	4.0000		
Lead, total	ug/L	MW-37	01/14/2015	ND	4.0000		
Lead, total	ug/L	MW-37	03/06/2015	ND	4.0000		
Lead, total	ug/L	MW-37	06/16/2015	ND	4.0000		
Lead, total	ug/L	MW-37	08/24/2015	ND	4.0000		
Lead, total	ug/L	MW-37	03/01/2016	ND	4.0000		
Lead, total	ug/L	MW-37	09/09/2016	ND	4.0000		
Lead, total	ug/L	MW-37	03/22/2017	ND	4.0000		
Lead, total	ug/L	MW-37	08/24/2017	ND	4.0000		
Lead, total	ug/L	MW-37	02/26/2018	ND	4.0000		
Lead, total	ug/L	MW-37	08/29/2018	ND	4.0000		
Lead, total	ug/L	MW-37	03/18/2019	ND	4.0000		
Lead, total	ug/L	MW-37	09/10/2019	ND	4.0000		
Lead, total	ug/L	MW-37	03/25/2020	ND	4.0000		
Lead, total	ug/L	MW-37	09/04/2020	ND	4.0000		

* - 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, total	ug/L	MW-37	03/02/2021	ND	4.0000		
Lead, total	ug/L	MW-37	09/02/2021	ND	4.0000		
Lead, total	ug/L	MW-37	03/02/2022	ND	4.0000		
Lead, total	ug/L	MW-37	08/29/2022	ND	4.0000		
Lead, total	ug/L	MW-37	03/23/2023	ND	4.0000		
Lead, total	ug/L	MW-37	09/25/2023	ND	4.0000		
Lead, total	ug/L	MW-37	03/05/2024	ND	4.0000		
Lead, total	ug/L	MW-37	09/30/2024	ND	4.0000		
Lead, total	ug/L	MW-37	03/06/2025	ND	4.0000		
Nickel, total	ug/L	MW-37	09/15/2014	ND	4.0000		
Nickel, total	ug/L	MW-37	01/14/2015	ND	4.0000		
Nickel, total	ug/L	MW-37	03/06/2015	ND	4.0000		
Nickel, total	ug/L	MW-37	06/16/2015	ND	4.0000		
Nickel, total	ug/L	MW-37	08/24/2015	ND	4.0000		
Nickel, total	ug/L	MW-37	03/01/2016	ND	4.0000		
Nickel, total	ug/L	MW-37	09/09/2016	ND	4.0000		
Nickel, total	ug/L	MW-37	03/22/2017	ND	4.0000		
Nickel, total	ug/L	MW-37	08/24/2017	ND	4.0000		
Nickel, total	ug/L	MW-37	02/26/2018	ND	4.0000		
Nickel, total	ug/L	MW-37	08/29/2018	ND	8.0000	4.0000	**
Nickel, total	ug/L	MW-37	03/18/2019	ND	4.0000		
Nickel, total	ug/L	MW-37	09/10/2019	ND	4.0000		
Nickel, total	ug/L	MW-37	03/25/2020	ND	4.0000		
Nickel, total	ug/L	MW-37	09/04/2020	ND	4.0000		
Nickel, total	ug/L	MW-37	03/02/2021	ND	4.0000		
Nickel, total	ug/L	MW-37	09/02/2021	ND	4.0000		
Nickel, total	ug/L	MW-37	03/02/2022	ND	4.0000		
Nickel, total	ug/L	MW-37	08/29/2022	ND	4.0000		
Nickel, total	ug/L	MW-37	03/23/2023	ND	4.0000		
Nickel, total	ug/L	MW-37	09/25/2023	ND	4.0000		
Nickel, total	ug/L	MW-37	03/05/2024	ND	4.0000		
Nickel, total	ug/L	MW-37	09/30/2024	ND	4.0000		
Nickel, total	ug/L	MW-37	03/06/2025	ND	4.0000		
Selenium, total	ug/L	MW-37	09/15/2014		9.3000		
Selenium, total	ug/L	MW-37	01/14/2015		6.0000		
Selenium, total	ug/L	MW-37	03/06/2015		6.7000		
Selenium, total	ug/L	MW-37	06/16/2015		6.3000		
Selenium, total	ug/L	MW-37	08/24/2015		5.5000		
Selenium, total	ug/L	MW-37	03/01/2016		4.4000		
Selenium, total	ug/L	MW-37	09/09/2016		4.7000		
Selenium, total	ug/L	MW-37	03/22/2017		4.1000		
Selenium, total	ug/L	MW-37	08/24/2017		7.1000		
Selenium, total	ug/L	MW-37	02/26/2018		5.8000		
Selenium, total	ug/L	MW-37	08/29/2018		11.6000		
Selenium, total	ug/L	MW-37	03/18/2019		14.6000		
Selenium, total	ug/L	MW-37	09/10/2019		20.2000		
Selenium, total	ug/L	MW-37	03/25/2020		17.6000		
Selenium, total	ug/L	MW-37	09/04/2020		14.7000		
Selenium, total	ug/L	MW-37	03/02/2021		18.9000		
Selenium, total	ug/L	MW-37	09/02/2021		17.4000		
Selenium, total	ug/L	MW-37	03/02/2022		20.0000		
Selenium, total	ug/L	MW-37	08/29/2022		23.1000		
Selenium, total	ug/L	MW-37	03/23/2023		16.4000		
Selenium, total	ug/L	MW-37	09/25/2023		14.5000		
Selenium, total	ug/L	MW-37	03/05/2024		16.5000		
Selenium, total	ug/L	MW-37	09/30/2024		10.2000		
Selenium, total	ug/L	MW-37	03/06/2025		15.0000		
Silver, total	ug/L	MW-37	09/15/2014	ND	4.0000		
Silver, total	ug/L	MW-37	01/14/2015	ND	4.0000		
Silver, total	ug/L	MW-37	03/06/2015	ND	4.0000		
Silver, total	ug/L	MW-37	06/16/2015	ND	4.0000		
Silver, total	ug/L	MW-37	08/24/2015	ND	4.0000		
Silver, total	ug/L	MW-37	03/01/2016	ND	4.0000		
Silver, total	ug/L	MW-37	09/09/2016	ND	4.0000		
Silver, total	ug/L	MW-37	03/22/2017	ND	4.0000		
Silver, total	ug/L	MW-37	08/24/2017	ND	4.0000		
Silver, total	ug/L	MW-37	02/26/2018	ND	4.0000		
Silver, total	ug/L	MW-37	08/29/2018	ND	8.0000	4.0000	**
Silver, total	ug/L	MW-37	03/18/2019	ND	4.0000		
Silver, total	ug/L	MW-37	09/10/2019	ND	4.0000		
Silver, total	ug/L	MW-37	03/25/2020	ND	4.0000		
Silver, total	ug/L	MW-37	09/04/2020	ND	4.0000		
Silver, total	ug/L	MW-37	03/02/2021	ND	4.0000		
Silver, total	ug/L	MW-37	09/02/2021	ND	4.0000		

* - 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, total	ug/L	MW-37	03/02/2022	ND	4.0000		
Silver, total	ug/L	MW-37	08/29/2022	ND	4.0000		
Silver, total	ug/L	MW-37	03/23/2023	ND	4.0000		
Silver, total	ug/L	MW-37	09/25/2023	ND	4.0000		
Silver, total	ug/L	MW-37	03/05/2024	ND	4.0000		
Silver, total	ug/L	MW-37	09/30/2024	ND	4.0000		
Silver, total	ug/L	MW-37	03/06/2025	ND	4.0000		
Thallium, total	ug/L	MW-37	09/15/2014	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-37	01/14/2015	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-37	03/06/2015	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-37	06/16/2015	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-37	08/24/2015	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-37	03/01/2016	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-37	09/09/2016	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-37	03/22/2017	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-37	08/24/2017	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-37	02/26/2018	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-37	08/29/2018	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-37	03/18/2019	ND	2.0000		
Thallium, total	ug/L	MW-37	09/10/2019	ND	2.0000		
Thallium, total	ug/L	MW-37	03/25/2020	ND	2.0000		
Thallium, total	ug/L	MW-37	09/04/2020	ND	2.0000		
Thallium, total	ug/L	MW-37	03/02/2021	ND	2.0000		
Thallium, total	ug/L	MW-37	09/02/2021	ND	2.0000		
Thallium, total	ug/L	MW-37	03/02/2022	ND	2.0000		
Thallium, total	ug/L	MW-37	08/29/2022	ND	2.0000		
Thallium, total	ug/L	MW-37	03/23/2023	ND	2.0000		
Thallium, total	ug/L	MW-37	09/25/2023	ND	2.0000		
Thallium, total	ug/L	MW-37	03/05/2024	ND	2.0000		
Thallium, total	ug/L	MW-37	09/30/2024	ND	2.0000		
Thallium, total	ug/L	MW-37	03/06/2025	ND	2.0000		
Vanadium, total	ug/L	MW-37	09/15/2014	ND	20.0000		
Vanadium, total	ug/L	MW-37	01/14/2015	ND	20.0000		
Vanadium, total	ug/L	MW-37	03/06/2015	ND	20.0000		
Vanadium, total	ug/L	MW-37	06/16/2015	ND	20.0000		
Vanadium, total	ug/L	MW-37	08/24/2015	ND	20.0000		
Vanadium, total	ug/L	MW-37	03/01/2016	ND	20.0000		
Vanadium, total	ug/L	MW-37	09/09/2016	ND	20.0000		
Vanadium, total	ug/L	MW-37	03/22/2017	ND	20.0000		
Vanadium, total	ug/L	MW-37	08/24/2017	ND	20.0000		
Vanadium, total	ug/L	MW-37	02/26/2018	ND	20.0000		
Vanadium, total	ug/L	MW-37	08/29/2018	ND	20.0000		
Vanadium, total	ug/L	MW-37	03/18/2019	ND	20.0000		
Vanadium, total	ug/L	MW-37	09/10/2019	ND	20.0000		
Vanadium, total	ug/L	MW-37	03/25/2020	ND	20.0000		
Vanadium, total	ug/L	MW-37	09/04/2020	ND	20.0000		
Vanadium, total	ug/L	MW-37	03/02/2021	ND	20.0000		
Vanadium, total	ug/L	MW-37	09/02/2021	ND	20.0000		
Vanadium, total	ug/L	MW-37	03/02/2022	ND	20.0000		
Vanadium, total	ug/L	MW-37	08/29/2022	ND	20.0000		
Vanadium, total	ug/L	MW-37	03/23/2023	ND	20.0000		
Vanadium, total	ug/L	MW-37	09/25/2023	ND	20.0000		
Vanadium, total	ug/L	MW-37	03/05/2024	ND	20.0000		
Vanadium, total	ug/L	MW-37	09/30/2024	ND	20.0000		
Vanadium, total	ug/L	MW-37	03/06/2025	ND	20.0000		
Zinc, total	ug/L	MW-37	09/15/2014		11.2000		
Zinc, total	ug/L	MW-37	01/14/2015	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-37	03/06/2015	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-37	06/16/2015	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-37	08/24/2015	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-37	03/01/2016	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-37	09/09/2016	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-37	03/22/2017	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-37	08/24/2017	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-37	02/26/2018	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-37	08/29/2018		28.7000		
Zinc, total	ug/L	MW-37	03/18/2019	ND	20.0000		
Zinc, total	ug/L	MW-37	09/10/2019	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-37	03/25/2020	ND	20.0000		
Zinc, total	ug/L	MW-37	09/04/2020	ND	20.0000		
Zinc, total	ug/L	MW-37	03/02/2021	ND	20.0000		
Zinc, total	ug/L	MW-37	09/02/2021	ND	20.0000		
Zinc, total	ug/L	MW-37	03/02/2022	ND	20.0000		
Zinc, total	ug/L	MW-37	08/29/2022	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 1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Zinc, total	ug/L	MW-37	03/23/2023	ND	20.0000		
Zinc, total	ug/L	MW-37	09/25/2023	ND	20.0000		
Zinc, total	ug/L	MW-37	03/05/2024	ND	20.0000		
Zinc, total	ug/L	MW-37	09/30/2024	ND	20.0000		
Zinc, total	ug/L	MW-37	03/06/2025	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, total	ug/L	MW-10	03/06/2025	ND	2.0000		2.0000
Arsenic, total	ug/L	MW-10	03/06/2025	ND	4.0000		4.0000
Barium, total	ug/L	MW-10	03/06/2025		432.0000	***	279.0293
Beryllium, total	ug/L	MW-10	03/06/2025	ND	4.0000		4.0000
Cadmium, total	ug/L	MW-10	03/06/2025	ND	0.8000		0.8000
Chromium, total	ug/L	MW-10	03/06/2025	ND	8.0000		8.0000
Cobalt, total	ug/L	MW-10	03/06/2025		2.5000	***	1.8000
Copper, total	ug/L	MW-10	03/06/2025	ND	4.0000		8.4000
Lead, total	ug/L	MW-10	03/06/2025	ND	4.0000		4.0000
Nickel, total	ug/L	MW-10	03/06/2025		17.4000	***	4.0000
Selenium, total	ug/L	MW-10	03/06/2025	ND	4.0000		23.1000
Silver, total	ug/L	MW-10	03/06/2025	ND	4.0000		4.0000
Thallium, total	ug/L	MW-10	03/06/2025	ND	2.0000		2.0000
Vanadium, total	ug/L	MW-10	03/06/2025	ND	20.0000		20.0000
Zinc, total	ug/L	MW-10	03/06/2025	ND	20.0000		49.4000
Antimony, total	ug/L	MW-27	03/06/2025	ND	2.0000		2.0000
Arsenic, total	ug/L	MW-27	03/06/2025	ND	4.0000		4.0000
Barium, total	ug/L	MW-27	03/06/2025		154.0000		279.0293
Beryllium, total	ug/L	MW-27	03/06/2025	ND	4.0000		4.0000
Cadmium, total	ug/L	MW-27	03/06/2025	ND	0.8000		0.8000
Chromium, total	ug/L	MW-27	03/06/2025	ND	8.0000		8.0000
Cobalt, total	ug/L	MW-27	03/06/2025	ND	0.4000		1.8000
Copper, total	ug/L	MW-27	03/06/2025	ND	4.0000		8.4000
Lead, total	ug/L	MW-27	03/06/2025	ND	4.0000		4.0000
Nickel, total	ug/L	MW-27	03/06/2025	ND	4.0000		4.0000
Selenium, total	ug/L	MW-27	03/06/2025	ND	4.0000		23.1000
Silver, total	ug/L	MW-27	03/06/2025	ND	4.0000		4.0000
Thallium, total	ug/L	MW-27	03/06/2025	ND	2.0000		2.0000
Vanadium, total	ug/L	MW-27	03/06/2025	ND	20.0000		20.0000
Zinc, total	ug/L	MW-27	03/06/2025	ND	20.0000		49.4000
Antimony, total	ug/L	MW-34	03/06/2025	ND	2.0000		2.0000
Arsenic, total	ug/L	MW-34	03/06/2025	ND	4.0000	**	4.0000
Barium, total	ug/L	MW-34	03/06/2025		89.4000		279.0293
Beryllium, total	ug/L	MW-34	03/06/2025	ND	4.0000		4.0000
Cadmium, total	ug/L	MW-34	03/06/2025	ND	0.8000		0.8000
Chromium, total	ug/L	MW-34	03/06/2025	ND	8.0000		8.0000
Cobalt, total	ug/L	MW-34	03/06/2025	ND	0.4000	**	1.8000
Copper, total	ug/L	MW-34	03/06/2025	ND	4.0000		8.4000
Lead, total	ug/L	MW-34	03/06/2025	ND	4.0000		4.0000
Nickel, total	ug/L	MW-34	03/06/2025	ND	4.0000	**	4.0000
Selenium, total	ug/L	MW-34	03/06/2025	ND	4.0000		23.1000
Silver, total	ug/L	MW-34	03/06/2025	ND	4.0000		4.0000
Thallium, total	ug/L	MW-34	03/06/2025	ND	2.0000		2.0000
Vanadium, total	ug/L	MW-34	03/06/2025	ND	20.0000		20.0000
Zinc, total	ug/L	MW-34	03/06/2025	ND	20.0000		49.4000
Antimony, total	ug/L	MW-35	03/06/2025	ND	2.0000		2.0000
Arsenic, total	ug/L	MW-35	03/06/2025	ND	4.0000		4.0000
Barium, total	ug/L	MW-35	03/06/2025		435.0000	***	279.0293
Beryllium, total	ug/L	MW-35	03/06/2025	ND	4.0000		4.0000
Cadmium, total	ug/L	MW-35	03/06/2025	ND	0.8000		0.8000
Chromium, total	ug/L	MW-35	03/06/2025	ND	8.0000		8.0000
Cobalt, total	ug/L	MW-35	03/06/2025	ND	0.4000		1.8000
Copper, total	ug/L	MW-35	03/06/2025	ND	4.0000		8.4000
Lead, total	ug/L	MW-35	03/06/2025	ND	4.0000		4.0000
Nickel, total	ug/L	MW-35	03/06/2025	ND	4.0000		4.0000
Selenium, total	ug/L	MW-35	03/06/2025	ND	4.0000		23.1000
Silver, total	ug/L	MW-35	03/06/2025	ND	4.0000		4.0000
Thallium, total	ug/L	MW-35	03/06/2025	ND	2.0000		2.0000
Vanadium, total	ug/L	MW-35	03/06/2025	ND	20.0000		20.0000
Zinc, total	ug/L	MW-35	03/06/2025	ND	20.0000		49.4000
Antimony, total	ug/L	MW-36	03/06/2025	ND	2.0000		2.0000
Arsenic, total	ug/L	MW-36	03/06/2025	ND	4.0000		4.0000
Barium, total	ug/L	MW-36	03/06/2025		300.0000	***	279.0293
Beryllium, total	ug/L	MW-36	03/06/2025	ND	4.0000		4.0000
Cadmium, total	ug/L	MW-36	03/06/2025	ND	0.8000		0.8000
Chromium, total	ug/L	MW-36	03/06/2025	ND	8.0000		8.0000
Cobalt, total	ug/L	MW-36	03/06/2025	ND	0.4000		1.8000
Copper, total	ug/L	MW-36	03/06/2025	ND	4.0000	**	8.4000
Lead, total	ug/L	MW-36	03/06/2025	ND	4.0000		4.0000
Nickel, total	ug/L	MW-36	03/06/2025	ND	4.0000		4.0000
Selenium, total	ug/L	MW-36	03/06/2025	ND	4.0000		23.1000
Silver, total	ug/L	MW-36	03/06/2025	ND	4.0000		4.0000

* - 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, total	ug/L	MW-36	03/06/2025	ND	2.0000		2.0000
Vanadium, total	ug/L	MW-36	03/06/2025	ND	20.0000		20.0000
Zinc, total	ug/L	MW-36	03/06/2025	ND	20.0000		49.4000
Antimony, total	ug/L	MW-3A	03/06/2025	ND	2.0000		2.0000
Arsenic, total	ug/L	MW-3A	03/06/2025	ND	4.0000	**	4.0000
Barium, total	ug/L	MW-3A	03/06/2025		67.0000		279.0293
Beryllium, total	ug/L	MW-3A	03/06/2025	ND	4.0000		4.0000
Cadmium, total	ug/L	MW-3A	03/06/2025	ND	0.8000		0.8000
Chromium, total	ug/L	MW-3A	03/06/2025	ND	8.0000		8.0000
Cobalt, total	ug/L	MW-3A	03/06/2025		0.4000		1.8000
Copper, total	ug/L	MW-3A	03/06/2025	ND	4.0000		8.4000
Lead, total	ug/L	MW-3A	03/06/2025	ND	4.0000		4.0000
Nickel, total	ug/L	MW-3A	03/06/2025	ND	4.0000		4.0000
Selenium, total	ug/L	MW-3A	03/06/2025	ND	4.0000		23.1000
Silver, total	ug/L	MW-3A	03/06/2025	ND	4.0000		4.0000
Thallium, total	ug/L	MW-3A	03/06/2025	ND	2.0000		2.0000
Vanadium, total	ug/L	MW-3A	03/06/2025	ND	20.0000		20.0000
Zinc, total	ug/L	MW-3A	03/06/2025	ND	20.0000		49.4000
Antimony, total	ug/L	MW-8	03/06/2025	ND	2.0000		2.0000
Arsenic, total	ug/L	MW-8	03/06/2025	ND	4.0000		4.0000
Barium, total	ug/L	MW-8	03/06/2025		208.0000		279.0293
Beryllium, total	ug/L	MW-8	03/06/2025	ND	4.0000		4.0000
Cadmium, total	ug/L	MW-8	03/06/2025	ND	0.8000		0.8000
Chromium, total	ug/L	MW-8	03/06/2025	ND	8.0000		8.0000
Cobalt, total	ug/L	MW-8	03/06/2025		0.8000	**	1.8000
Copper, total	ug/L	MW-8	03/06/2025	ND	4.0000		8.4000
Lead, total	ug/L	MW-8	03/06/2025	ND	4.0000		4.0000
Nickel, total	ug/L	MW-8	03/06/2025		5.4000	***	4.0000
Selenium, total	ug/L	MW-8	03/06/2025	ND	4.0000		23.1000
Silver, total	ug/L	MW-8	03/06/2025	ND	4.0000		4.0000
Thallium, total	ug/L	MW-8	03/06/2025	ND	2.0000		2.0000
Vanadium, total	ug/L	MW-8	03/06/2025	ND	20.0000		20.0000
Zinc, total	ug/L	MW-8	03/06/2025	ND	20.0000		49.4000

* - 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	Detect	Upgradient N	Proportion	Detect	Downgradient N	Proportion
Antimony, total	0	94	0.000	0	226	0.000
Arsenic, total	0	94	0.000	50	229	0.218
Barium, total	95	95	1.000	234	234	1.000
Beryllium, total	0	94	0.000	0	226	0.000
Cadmium, total	2	94	0.021	19	227	0.084
Chromium, total	0	94	0.000	13	226	0.058
Cobalt, total	10	93	0.108	114	229	0.498
Copper, total	1	94	0.011	55	226	0.243
Lead, total	0	94	0.000	26	226	0.115
Nickel, total	0	94	0.000	139	229	0.607
Selenium, total	36	94	0.383	4	226	0.018
Silver, total	0	94	0.000	0	226	0.000
Thallium, total	0	93	0.000	1	226	0.004
Vanadium, total	0	94	0.000	13	229	0.057
Zinc, total	14	93	0.151	84	226	0.372

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, total	0	94	0.000									nonpar
Arsenic, total	0	94	0.000									nonpar
Barium, total	95	95	1.000	1.740	1.381					2.326	normal	normal
Beryllium, total	0	94	0.000									nonpar
Cadmium, total	2	94	0.021									nonpar
Chromium, total	0	94	0.000									nonpar
Cobalt, total	10	93	0.108	0.003	0.974					2.326	normal	nonpar
Copper, total	1	94	0.011									nonpar
Lead, total	0	94	0.000									nonpar
Nickel, total	0	94	0.000									nonpar
Selenium, total	36	94	0.383	2.319	2.450					2.326	normal	nonpar
Silver, total	0	94	0.000									nonpar
Thallium, total	0	93	0.000									nonpar
Vanadium, total	0	94	0.000									nonpar
Zinc, total	14	93	0.151	0.126	0.525					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, total	ug/L	0	94	141.3663	57.8637	0.0100	2.3791	2.0000	nonpar	***	0.99
Arsenic, total	ug/L	0	94					4.0000	nonpar	***	0.99
Barium, total	ug/L	95	95					279.0293	normal		
Beryllium, total	ug/L	0	94					4.0000	nonpar	***	0.99
Cadmium, total	ug/L	2	94					0.8000	nonpar	***	0.99
Chromium, total	ug/L	0	94					8.0000	nonpar	***	0.99
Cobalt, total	ug/L	10	93					1.8000	nonpar		0.99
Copper, total	ug/L	1	94					8.4000	nonpar		0.99
Lead, total	ug/L	0	94					4.0000	nonpar	***	0.99
Nickel, total	ug/L	0	94					4.0000	nonpar	***	0.99
Selenium, total	ug/L	36	94					23.1000	nonpar		0.99
Silver, total	ug/L	0	94					4.0000	nonpar	***	0.99
Thallium, total	ug/L	0	93					2.0000	nonpar	***	0.99
Vanadium, total	ug/L	0	94					20.0000	nonpar	***	0.99
Zinc, total	ug/L	14	93					49.4000	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
Thallium, total	ug/L	MW-26	02/26/2018	10.0000	< 10.0000	09/15/2014-03/06/2025	24	0.4969
Cobalt, total	ug/L	MW-33	09/02/2021	2.6000		09/15/2014-03/06/2025	22	0.5162

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
Cobalt, total	ug/L	MW-10	03/18/2019		3.9000	*	1.8000
Cobalt, total	ug/L	MW-10	09/10/2019		7.2000	*	1.8000
Cobalt, total	ug/L	MW-10	03/25/2020		8.7000	*	1.8000
Cobalt, total	ug/L	MW-10	09/04/2020		10.0000	*	1.8000
Cobalt, total	ug/L	MW-10	03/02/2021		7.4000	*	1.8000
Cobalt, total	ug/L	MW-10	09/02/2021		10.0000	*	1.8000
Cobalt, total	ug/L	MW-10	03/02/2022		2.5000	*	1.8000
Cobalt, total	ug/L	MW-10	08/29/2022		5.5000	*	1.8000
Cobalt, total	ug/L	MW-10	03/23/2023		1.7000	*	1.8000
Cobalt, total	ug/L	MW-10	09/25/2023		7.1000	*	1.8000
Cobalt, total	ug/L	MW-10	03/05/2024		5.7000	*	1.8000
Cobalt, total	ug/L	MW-10	09/30/2024		5.7000	*	1.8000
Cobalt, total	ug/L	MW-10	03/06/2025		2.5000	*	1.8000
Nickel, total	ug/L	MW-10	03/26/2008		61.0000	*	4.0000
Nickel, total	ug/L	MW-10	05/06/2008		36.0000	*	4.0000
Nickel, total	ug/L	MW-10	07/23/2008		17.0000	*	4.0000
Nickel, total	ug/L	MW-10	09/30/2008		24.7000	*	4.0000
Nickel, total	ug/L	MW-10	12/02/2008		26.7000	*	4.0000
Nickel, total	ug/L	MW-10	03/05/2009		26.8000	*	4.0000
Nickel, total	ug/L	MW-10	09/01/2009		39.0000	*	4.0000
Nickel, total	ug/L	MW-10	03/23/2010		19.6000	*	4.0000
Nickel, total	ug/L	MW-10	07/26/2010		21.8000	*	4.0000
Nickel, total	ug/L	MW-10	09/09/2010		20.9000	*	4.0000
Nickel, total	ug/L	MW-10	03/29/2011		35.2000	*	4.0000
Nickel, total	ug/L	MW-10	09/13/2011		18.2000	*	4.0000
Nickel, total	ug/L	MW-10	03/28/2012		21.1000	*	4.0000
Nickel, total	ug/L	MW-10	09/11/2012		18.8000	*	4.0000
Nickel, total	ug/L	MW-10	03/26/2013		24.9000	*	4.0000
Nickel, total	ug/L	MW-10	09/25/2013		23.3000	*	4.0000
Nickel, total	ug/L	MW-10	03/20/2014		27.4000	*	4.0000
Nickel, total	ug/L	MW-10	09/15/2014		15.2000	*	4.0000
Nickel, total	ug/L	MW-10	03/06/2015		17.3000	*	4.0000
Nickel, total	ug/L	MW-10	08/24/2015		16.3000	*	4.0000
Nickel, total	ug/L	MW-10	03/01/2016		24.9000	*	4.0000
Nickel, total	ug/L	MW-10	09/09/2016		17.6000	*	4.0000
Nickel, total	ug/L	MW-10	03/22/2017		15.1000	*	4.0000
Nickel, total	ug/L	MW-10	08/24/2017		12.6000	*	4.0000
Nickel, total	ug/L	MW-10	02/26/2018		13.1000	*	4.0000
Nickel, total	ug/L	MW-10	08/29/2018		16.3000	*	4.0000
Nickel, total	ug/L	MW-10	03/18/2019		8.6000	*	4.0000
Nickel, total	ug/L	MW-10	09/10/2019		9.2000	*	4.0000
Nickel, total	ug/L	MW-10	03/25/2020		14.4000	*	4.0000
Nickel, total	ug/L	MW-10	09/04/2020		15.8000	*	4.0000
Nickel, total	ug/L	MW-10	03/02/2021		10.6000	*	4.0000
Nickel, total	ug/L	MW-10	09/02/2021		12.6000	*	4.0000
Nickel, total	ug/L	MW-10	03/02/2022		13.0000	*	4.0000
Nickel, total	ug/L	MW-10	08/29/2022		12.8000	*	4.0000
Nickel, total	ug/L	MW-10	03/23/2023		8.3000	*	4.0000
Nickel, total	ug/L	MW-10	09/25/2023		15.4000	*	4.0000
Nickel, total	ug/L	MW-10	03/05/2024		11.1000	*	4.0000
Nickel, total	ug/L	MW-10	09/30/2024		13.5000	*	4.0000
Nickel, total	ug/L	MW-10	03/06/2025		17.4000	*	4.0000
Arsenic, total	ug/L	MW-34	03/29/2011	ND	4.0000		4.0000
Arsenic, total	ug/L	MW-34	09/13/2011		8.9000	*	4.0000
Arsenic, total	ug/L	MW-34	03/28/2012		4.2000	*	4.0000
Arsenic, total	ug/L	MW-34	07/05/2012		8.8000	*	4.0000
Arsenic, total	ug/L	MW-34	09/11/2012	ND	4.0000		4.0000
Arsenic, total	ug/L	MW-34	10/30/2012		8.2000	*	4.0000
Arsenic, total	ug/L	MW-34	03/26/2013	ND	4.0000		4.0000
Arsenic, total	ug/L	MW-34	09/25/2013		4.7000	*	4.0000
Arsenic, total	ug/L	MW-34	03/20/2014	ND	4.0000		4.0000
Arsenic, total	ug/L	MW-34	09/15/2014	ND	4.0000		4.0000
Arsenic, total	ug/L	MW-34	03/06/2015	ND	4.0000		4.0000
Arsenic, total	ug/L	MW-34	08/24/2015	ND	4.0000		4.0000
Arsenic, total	ug/L	MW-34	03/01/2016	ND	4.0000		4.0000
Arsenic, total	ug/L	MW-34	09/09/2016	ND	4.0000		4.0000
Arsenic, total	ug/L	MW-34	03/22/2017	ND	4.0000		4.0000
Arsenic, total	ug/L	MW-34	08/24/2017	ND	4.0000		4.0000
Arsenic, total	ug/L	MW-34	11/15/2017	ND	2.0000		4.0000
Arsenic, total	ug/L	MW-34	02/26/2018	ND	4.0000		4.0000
Arsenic, total	ug/L	MW-34	08/29/2018	ND	4.0000		4.0000

* - 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
Arsenic, total	ug/L	MW-34	03/18/2019	ND	4.0000		4.0000
Arsenic, total	ug/L	MW-34	09/10/2019		4.4000	*	4.0000
Arsenic, total	ug/L	MW-34	03/25/2020	ND	4.0000		4.0000
Arsenic, total	ug/L	MW-34	09/04/2020	ND	4.0000		4.0000
Arsenic, total	ug/L	MW-34	03/02/2021	ND	4.0000		4.0000
Arsenic, total	ug/L	MW-34	09/02/2021	ND	4.0000		4.0000
Arsenic, total	ug/L	MW-34	03/02/2022	ND	4.0000		4.0000
Arsenic, total	ug/L	MW-34	08/29/2022	ND	4.0000		4.0000
Arsenic, total	ug/L	MW-34	03/23/2023	ND	4.0000		4.0000
Arsenic, total	ug/L	MW-34	09/25/2023	ND	4.0000		4.0000
Arsenic, total	ug/L	MW-34	03/05/2024	ND	4.0000		4.0000
Arsenic, total	ug/L	MW-34	09/30/2024		4.2000	*	4.0000
Arsenic, total	ug/L	MW-34	03/06/2025	ND	4.0000		4.0000
Cobalt, total	ug/L	MW-34	03/29/2011	ND	4.0000		1.8000
Cobalt, total	ug/L	MW-34	09/13/2011		9.0000	*	1.8000
Cobalt, total	ug/L	MW-34	03/28/2012	ND	4.0000		1.8000
Cobalt, total	ug/L	MW-34	07/05/2012		5.3000	*	1.8000
Cobalt, total	ug/L	MW-34	09/11/2012		5.5000	*	1.8000
Cobalt, total	ug/L	MW-34	10/30/2012		6.1000	*	1.8000
Cobalt, total	ug/L	MW-34	03/26/2013	ND	4.0000		1.8000
Cobalt, total	ug/L	MW-34	09/25/2013		4.4000	*	1.8000
Cobalt, total	ug/L	MW-34	03/20/2014	ND	4.0000		1.8000
Cobalt, total	ug/L	MW-34	09/15/2014	ND	0.8000		1.8000
Cobalt, total	ug/L	MW-34	03/06/2015	ND	0.8000		1.8000
Cobalt, total	ug/L	MW-34	08/24/2015		2.1000	*	1.8000
Cobalt, total	ug/L	MW-34	03/01/2016		0.8000		1.8000
Cobalt, total	ug/L	MW-34	09/09/2016		0.8000		1.8000
Cobalt, total	ug/L	MW-34	03/22/2017	ND	0.8000		1.8000
Cobalt, total	ug/L	MW-34	08/24/2017		3.2000	*	1.8000
Cobalt, total	ug/L	MW-34	11/15/2017	ND	0.8000		1.8000
Cobalt, total	ug/L	MW-34	02/26/2018	ND	0.8000		1.8000
Cobalt, total	ug/L	MW-34	08/29/2018	ND	0.8000		1.8000
Cobalt, total	ug/L	MW-34	03/18/2019		1.9000	*	1.8000
Cobalt, total	ug/L	MW-34	09/10/2019		2.9000	*	1.8000
Cobalt, total	ug/L	MW-34	03/25/2020		2.0000	*	1.8000
Cobalt, total	ug/L	MW-34	09/04/2020		1.7000		1.8000
Cobalt, total	ug/L	MW-34	03/02/2021		2.3000	*	1.8000
Cobalt, total	ug/L	MW-34	09/02/2021		5.6000	*	1.8000
Cobalt, total	ug/L	MW-34	03/02/2022		0.5000		1.8000
Cobalt, total	ug/L	MW-34	08/29/2022		1.3000		1.8000
Cobalt, total	ug/L	MW-34	03/23/2023	ND	0.4000		1.8000
Cobalt, total	ug/L	MW-34	09/25/2023		1.6000		1.8000
Cobalt, total	ug/L	MW-34	03/05/2024		0.5000		1.8000
Cobalt, total	ug/L	MW-34	09/30/2024		5.4000	*	1.8000
Cobalt, total	ug/L	MW-34	03/06/2025	ND	0.4000		1.8000
Nickel, total	ug/L	MW-34	03/29/2011		22.1000	*	4.0000
Nickel, total	ug/L	MW-34	05/04/2011		21.0000	*	4.0000
Nickel, total	ug/L	MW-34	09/13/2011		35.7000	*	4.0000
Nickel, total	ug/L	MW-34	03/28/2012		14.2000	*	4.0000
Nickel, total	ug/L	MW-34	07/05/2012		20.2000	*	4.0000
Nickel, total	ug/L	MW-34	09/11/2012		19.4000	*	4.0000
Nickel, total	ug/L	MW-34	10/30/2012		24.0000	*	4.0000
Nickel, total	ug/L	MW-34	03/26/2013		9.4000	*	4.0000
Nickel, total	ug/L	MW-34	09/25/2013		10.7000	*	4.0000
Nickel, total	ug/L	MW-34	03/20/2014		4.4000	*	4.0000
Nickel, total	ug/L	MW-34	09/15/2014	ND	4.0000		4.0000
Nickel, total	ug/L	MW-34	03/06/2015		5.5000	*	4.0000
Nickel, total	ug/L	MW-34	08/24/2015		14.7000	*	4.0000
Nickel, total	ug/L	MW-34	03/01/2016		9.6000	*	4.0000
Nickel, total	ug/L	MW-34	09/09/2016		7.9000	*	4.0000
Nickel, total	ug/L	MW-34	03/22/2017		5.0000	*	4.0000
Nickel, total	ug/L	MW-34	08/24/2017		14.7000	*	4.0000
Nickel, total	ug/L	MW-34	02/26/2018		8.2000	*	4.0000
Nickel, total	ug/L	MW-34	08/29/2018		4.3000	*	4.0000
Nickel, total	ug/L	MW-34	03/18/2019		9.2000	*	4.0000
Nickel, total	ug/L	MW-34	09/10/2019		12.0000	*	4.0000
Nickel, total	ug/L	MW-34	03/25/2020		5.4000	*	4.0000
Nickel, total	ug/L	MW-34	09/04/2020		11.3000	*	4.0000
Nickel, total	ug/L	MW-34	03/02/2021		8.9000	*	4.0000
Nickel, total	ug/L	MW-34	09/02/2021		13.9000	*	4.0000
Nickel, total	ug/L	MW-34	03/02/2022	ND	4.0000		4.0000

* - 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
Nickel, total	ug/L	MW-34	08/29/2022	ND	9.0000	* 4.0000
Nickel, total	ug/L	MW-34	03/23/2023		4.0000	4.0000
Nickel, total	ug/L	MW-34	09/25/2023	ND	10.0000	* 4.0000
Nickel, total	ug/L	MW-34	03/05/2024		7.6000	* 4.0000
Nickel, total	ug/L	MW-34	09/30/2024	ND	15.9000	* 4.0000
Nickel, total	ug/L	MW-34	03/06/2025		4.0000	4.0000
Barium, total	ug/L	MW-35	03/29/2011		363.0000	* 279.0293
Barium, total	ug/L	MW-35	05/04/2011		267.0000	279.0293
Barium, total	ug/L	MW-35	09/13/2011		495.0000	* 279.0293
Barium, total	ug/L	MW-35	03/28/2012		757.0000	* 279.0293
Barium, total	ug/L	MW-35	07/05/2012		730.0000	* 279.0293
Barium, total	ug/L	MW-35	09/11/2012		864.0000	* 279.0293
Barium, total	ug/L	MW-35	10/30/2012		494.0000	* 279.0293
Barium, total	ug/L	MW-35	03/26/2013		697.0000	* 279.0293
Barium, total	ug/L	MW-35	09/25/2013		795.0000	* 279.0293
Barium, total	ug/L	MW-35	03/20/2014		772.0000	* 279.0293
Barium, total	ug/L	MW-35	09/15/2014		668.0000	* 279.0293
Barium, total	ug/L	MW-35	03/06/2015		740.0000	* 279.0293
Barium, total	ug/L	MW-35	08/24/2015		695.0000	* 279.0293
Barium, total	ug/L	MW-35	03/01/2016		676.0000	* 279.0293
Barium, total	ug/L	MW-35	09/09/2016		664.0000	* 279.0293
Barium, total	ug/L	MW-35	03/22/2017		629.0000	* 279.0293
Barium, total	ug/L	MW-35	08/24/2017		667.0000	* 279.0293
Barium, total	ug/L	MW-35	02/26/2018		637.0000	* 279.0293
Barium, total	ug/L	MW-35	08/29/2018		580.0000	* 279.0293
Barium, total	ug/L	MW-35	03/18/2019		1230.0000	* 279.0293
Barium, total	ug/L	MW-35	09/10/2019		387.0000	* 279.0293
Barium, total	ug/L	MW-35	03/25/2020		543.0000	* 279.0293
Barium, total	ug/L	MW-35	09/04/2020		268.0000	* 279.0293
Barium, total	ug/L	MW-35	03/02/2021		481.0000	* 279.0293
Barium, total	ug/L	MW-35	09/02/2021		248.0000	* 279.0293
Barium, total	ug/L	MW-35	03/02/2022		483.0000	* 279.0293
Barium, total	ug/L	MW-35	08/29/2022		372.0000	* 279.0293
Barium, total	ug/L	MW-35	03/23/2023		451.0000	* 279.0293
Barium, total	ug/L	MW-35	09/25/2023		378.0000	* 279.0293
Barium, total	ug/L	MW-35	03/05/2024		460.0000	* 279.0293
Barium, total	ug/L	MW-35	09/30/2024		448.0000	* 279.0293
Barium, total	ug/L	MW-35	03/06/2025		435.0000	* 279.0293
Barium, total	ug/L	MW-36	05/11/2011		391.0000	* 279.0293
Barium, total	ug/L	MW-36	09/13/2011		513.0000	* 279.0293
Barium, total	ug/L	MW-36	03/28/2012		382.0000	* 279.0293
Barium, total	ug/L	MW-36	09/11/2012		282.0000	* 279.0293
Barium, total	ug/L	MW-36	03/26/2013		223.0000	* 279.0293
Barium, total	ug/L	MW-36	09/25/2013		299.0000	* 279.0293
Barium, total	ug/L	MW-36	03/20/2014		293.0000	* 279.0293
Barium, total	ug/L	MW-36	09/15/2014		302.0000	* 279.0293
Barium, total	ug/L	MW-36	03/06/2015		344.0000	* 279.0293
Barium, total	ug/L	MW-36	08/24/2015		322.0000	* 279.0293
Barium, total	ug/L	MW-36	03/01/2016		347.0000	* 279.0293
Barium, total	ug/L	MW-36	09/09/2016		345.0000	* 279.0293
Barium, total	ug/L	MW-36	01/26/2017		337.0000	* 279.0293
Barium, total	ug/L	MW-36	03/22/2017		327.0000	* 279.0293
Barium, total	ug/L	MW-36	08/24/2017		357.0000	* 279.0293
Barium, total	ug/L	MW-36	02/26/2018		341.0000	* 279.0293
Barium, total	ug/L	MW-36	08/29/2018		341.0000	* 279.0293
Barium, total	ug/L	MW-36	03/18/2019		348.0000	* 279.0293
Barium, total	ug/L	MW-36	09/10/2019		336.0000	* 279.0293
Barium, total	ug/L	MW-36	03/25/2020		346.0000	* 279.0293
Barium, total	ug/L	MW-36	09/04/2020		353.0000	* 279.0293
Barium, total	ug/L	MW-36	03/02/2021		331.0000	* 279.0293
Barium, total	ug/L	MW-36	09/02/2021		336.0000	* 279.0293
Barium, total	ug/L	MW-36	03/02/2022		309.0000	* 279.0293
Barium, total	ug/L	MW-36	08/29/2022		314.0000	* 279.0293
Barium, total	ug/L	MW-36	03/23/2023		301.0000	* 279.0293
Barium, total	ug/L	MW-36	09/25/2023		289.0000	* 279.0293
Barium, total	ug/L	MW-36	03/05/2024		315.0000	* 279.0293
Barium, total	ug/L	MW-36	09/30/2024		292.0000	* 279.0293
Barium, total	ug/L	MW-36	03/06/2025		300.0000	* 279.0293
Copper, total	ug/L	MW-36	05/11/2011		18.7000	* 8.4000
Copper, total	ug/L	MW-36	09/13/2011		12.0000	* 8.4000
Copper, total	ug/L	MW-36	03/28/2012		7.9000	8.4000

* - 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
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Constituent	Units	Well	Date		Result	Pred. Limit
Copper, total	ug/L	MW-36	09/11/2012		6.2000	8.4000
Copper, total	ug/L	MW-36	03/26/2013	ND	4.0000	8.4000
Copper, total	ug/L	MW-36	09/25/2013	ND	4.0000	8.4000
Copper, total	ug/L	MW-36	03/20/2014	ND	4.0000	8.4000
Copper, total	ug/L	MW-36	09/15/2014	ND	4.0000	8.4000
Copper, total	ug/L	MW-36	03/06/2015	ND	4.0000	8.4000
Copper, total	ug/L	MW-36	08/24/2015	ND	4.0000	8.4000
Copper, total	ug/L	MW-36	03/01/2016	ND	4.0000	8.4000
Copper, total	ug/L	MW-36	09/09/2016	ND	4.0000	8.4000
Copper, total	ug/L	MW-36	03/22/2017	ND	4.0000	8.4000
Copper, total	ug/L	MW-36	08/24/2017	ND	4.0000	8.4000
Copper, total	ug/L	MW-36	02/26/2018	ND	4.0000	8.4000
Copper, total	ug/L	MW-36	08/29/2018	ND	4.0000	8.4000
Copper, total	ug/L	MW-36	03/18/2019	ND	4.0000	8.4000
Copper, total	ug/L	MW-36	09/10/2019	ND	4.0000	8.4000
Copper, total	ug/L	MW-36	03/25/2020	ND	4.0000	8.4000
Copper, total	ug/L	MW-36	09/04/2020	ND	4.0000	8.4000
Copper, total	ug/L	MW-36	03/02/2021	ND	4.0000	8.4000
Copper, total	ug/L	MW-36	09/02/2021	ND	4.0000	8.4000
Copper, total	ug/L	MW-36	03/02/2022	ND	4.0000	8.4000
Copper, total	ug/L	MW-36	08/29/2022	ND	4.0000	8.4000
Copper, total	ug/L	MW-36	03/23/2023	ND	4.0000	8.4000
Copper, total	ug/L	MW-36	09/25/2023	ND	4.0000	8.4000
Copper, total	ug/L	MW-36	03/05/2024	ND	4.0000	8.4000
Copper, total	ug/L	MW-36	09/30/2024		12.0000 *	8.4000
Copper, total	ug/L	MW-36	03/06/2025	ND	4.0000	8.4000
Arsenic, total	ug/L	MW-3A	03/29/2011	ND	4.0000	4.0000
Arsenic, total	ug/L	MW-3A	09/13/2011	ND	4.0000	4.0000
Arsenic, total	ug/L	MW-3A	03/28/2012	ND	4.0000	4.0000
Arsenic, total	ug/L	MW-3A	07/05/2012	ND	4.0000	4.0000
Arsenic, total	ug/L	MW-3A	03/26/2013	ND	4.0000	4.0000
Arsenic, total	ug/L	MW-3A	09/25/2013		10.3000 *	4.0000
Arsenic, total	ug/L	MW-3A	04/09/2014	ND	4.0000	4.0000
Arsenic, total	ug/L	MW-3A	09/15/2014	ND	4.0000	4.0000
Arsenic, total	ug/L	MW-3A	03/06/2015	ND	4.0000	4.0000
Arsenic, total	ug/L	MW-3A	08/24/2015	ND	4.0000	4.0000
Arsenic, total	ug/L	MW-3A	03/01/2016	ND	4.0000	4.0000
Arsenic, total	ug/L	MW-3A	09/09/2016		6.1000 *	4.0000
Arsenic, total	ug/L	MW-3A	10/31/2016		4.7000 *	4.0000
Arsenic, total	ug/L	MW-3A	03/22/2017	ND	4.0000	4.0000
Arsenic, total	ug/L	MW-3A	08/24/2017		4.5000 *	4.0000
Arsenic, total	ug/L	MW-3A	11/15/2017		9.4000 *	4.0000
Arsenic, total	ug/L	MW-3A	02/26/2018	ND	4.0000	4.0000
Arsenic, total	ug/L	MW-3A	08/29/2018		5.6000 *	4.0000
Arsenic, total	ug/L	MW-3A	03/18/2019	ND	4.0000	4.0000
Arsenic, total	ug/L	MW-3A	09/10/2019	ND	4.0000	4.0000
Arsenic, total	ug/L	MW-3A	03/25/2020	ND	4.0000	4.0000
Arsenic, total	ug/L	MW-3A	09/04/2020	ND	4.0000	4.0000
Arsenic, total	ug/L	MW-3A	03/02/2021	ND	4.0000	4.0000
Arsenic, total	ug/L	MW-3A	09/02/2021		4.1000 *	4.0000
Arsenic, total	ug/L	MW-3A	03/02/2022	ND	4.0000	4.0000
Arsenic, total	ug/L	MW-3A	08/29/2022	ND	4.0000	4.0000
Barium, total	ug/L	MW-10	03/26/2008		234.0000	279.0293
Barium, total	ug/L	MW-10	05/06/2008		190.0000	279.0293
Barium, total	ug/L	MW-10	07/23/2008		179.0000	279.0293
Barium, total	ug/L	MW-10	09/30/2008		491.0000 *	279.0293
Barium, total	ug/L	MW-10	12/02/2008		579.0000 *	279.0293
Barium, total	ug/L	MW-10	03/05/2009		611.0000 *	279.0293
Barium, total	ug/L	MW-10	09/01/2009		405.0000 *	279.0293
Barium, total	ug/L	MW-10	03/23/2010		204.0000	279.0293
Barium, total	ug/L	MW-10	07/26/2010		382.0000 *	279.0293
Barium, total	ug/L	MW-10	09/09/2010		530.0000 *	279.0293
Barium, total	ug/L	MW-10	03/29/2011		499.0000 *	279.0293
Barium, total	ug/L	MW-10	09/13/2011		616.0000 *	279.0293
Barium, total	ug/L	MW-10	03/28/2012		341.0000 *	279.0293
Barium, total	ug/L	MW-10	09/11/2012		638.0000 *	279.0293
Barium, total	ug/L	MW-10	03/26/2013		454.0000 *	279.0293
Barium, total	ug/L	MW-10	09/25/2013		615.0000 *	279.0293
Barium, total	ug/L	MW-10	03/20/2014		606.0000 *	279.0293
Barium, total	ug/L	MW-10	09/15/2014		601.0000 *	279.0293
Barium, total	ug/L	MW-10	03/06/2015		547.0000 *	279.0293

* - Significantly increased over background.

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*** - Manual exclusion.

ND = Not Detected, Result = detection limit.

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are in Verification Resampling Mode**

Constituent	Units	Well	Date		Result		Pred. Limit
Barium, total	ug/L	MW-10	08/24/2015		620.0000	*	279.0293
Barium, total	ug/L	MW-10	03/01/2016		405.0000	*	279.0293
Barium, total	ug/L	MW-10	09/09/2016		623.0000	*	279.0293
Barium, total	ug/L	MW-10	03/22/2017		676.0000	*	279.0293
Barium, total	ug/L	MW-10	08/24/2017		519.0000	*	279.0293
Barium, total	ug/L	MW-10	02/26/2018		589.0000	*	279.0293
Barium, total	ug/L	MW-10	08/29/2018		592.0000	*	279.0293
Barium, total	ug/L	MW-10	03/18/2019		213.0000	*	279.0293
Barium, total	ug/L	MW-10	09/10/2019		377.0000	*	279.0293
Barium, total	ug/L	MW-10	03/25/2020		412.0000	*	279.0293
Barium, total	ug/L	MW-10	09/04/2020		408.0000	*	279.0293
Barium, total	ug/L	MW-10	03/02/2021		413.0000	*	279.0293
Barium, total	ug/L	MW-10	09/02/2021		458.0000	*	279.0293
Barium, total	ug/L	MW-10	03/02/2022		394.0000	*	279.0293
Barium, total	ug/L	MW-10	08/29/2022		395.0000	*	279.0293
Barium, total	ug/L	MW-10	03/23/2023		354.0000	*	279.0293
Barium, total	ug/L	MW-10	09/25/2023		376.0000	*	279.0293
Barium, total	ug/L	MW-10	03/05/2024		440.0000	*	279.0293
Barium, total	ug/L	MW-10	09/30/2024		533.0000	*	279.0293
Barium, total	ug/L	MW-10	03/06/2025		432.0000	*	279.0293
Cobalt, total	ug/L	MW-10	03/26/2008	ND	20.0000	*	1.8000
Cobalt, total	ug/L	MW-10	05/06/2008		18.0000	*	1.8000
Cobalt, total	ug/L	MW-10	07/23/2008		10.0000	*	1.8000
Cobalt, total	ug/L	MW-10	09/30/2008		11.5000	*	1.8000
Cobalt, total	ug/L	MW-10	12/02/2008		12.1000	*	1.8000
Cobalt, total	ug/L	MW-10	03/05/2009		10.4000	*	1.8000
Cobalt, total	ug/L	MW-10	09/01/2009		12.2000	*	1.8000
Cobalt, total	ug/L	MW-10	03/23/2010		6.1000	*	1.8000
Cobalt, total	ug/L	MW-10	07/26/2010		11.9000	*	1.8000
Cobalt, total	ug/L	MW-10	09/09/2010		9.2000	*	1.8000
Cobalt, total	ug/L	MW-10	03/29/2011		8.5000	*	1.8000
Cobalt, total	ug/L	MW-10	09/13/2011		5.2000	*	1.8000
Cobalt, total	ug/L	MW-10	03/28/2012		4.5000	*	1.8000
Cobalt, total	ug/L	MW-10	09/11/2012		7.7000	*	1.8000
Cobalt, total	ug/L	MW-10	03/26/2013		8.3000	*	1.8000
Cobalt, total	ug/L	MW-10	09/25/2013		9.3000	*	1.8000
Cobalt, total	ug/L	MW-10	03/20/2014		11.0000	*	1.8000
Cobalt, total	ug/L	MW-10	09/15/2014		8.1000	*	1.8000
Cobalt, total	ug/L	MW-10	03/06/2015		6.0000	*	1.8000
Cobalt, total	ug/L	MW-10	08/24/2015		7.0000	*	1.8000
Cobalt, total	ug/L	MW-10	03/01/2016		4.9000	*	1.8000
Cobalt, total	ug/L	MW-10	09/09/2016		7.6000	*	1.8000
Cobalt, total	ug/L	MW-10	03/22/2017		8.0000	*	1.8000
Cobalt, total	ug/L	MW-10	08/24/2017		6.7000	*	1.8000
Cobalt, total	ug/L	MW-10	02/26/2018		8.5000	*	1.8000
Cobalt, total	ug/L	MW-10	08/29/2018		9.2000	*	1.8000
Arsenic, total	ug/L	MW-3A	03/23/2023	ND	4.0000		4.0000
Arsenic, total	ug/L	MW-3A	03/05/2024	ND	4.0000		4.0000
Arsenic, total	ug/L	MW-3A	09/30/2024		10.1000	*	4.0000
Arsenic, total	ug/L	MW-3A	03/06/2025	ND	4.0000		4.0000
Cobalt, total	ug/L	MW-8	03/26/2008	ND	10.0000		1.8000
Cobalt, total	ug/L	MW-8	05/06/2008	ND	10.0000		1.8000
Cobalt, total	ug/L	MW-8	07/23/2008		31.0000	*	1.8000
Cobalt, total	ug/L	MW-8	09/30/2008		9.9000	*	1.8000
Cobalt, total	ug/L	MW-8	12/02/2008		16.9000	*	1.8000
Cobalt, total	ug/L	MW-8	03/05/2009		12.7000	*	1.8000
Cobalt, total	ug/L	MW-8	09/01/2009		15.3000	*	1.8000
Cobalt, total	ug/L	MW-8	03/23/2010		11.8000	*	1.8000
Cobalt, total	ug/L	MW-8	09/09/2010		8.4000	*	1.8000
Cobalt, total	ug/L	MW-8	03/29/2011		10.3000	*	1.8000
Cobalt, total	ug/L	MW-8	09/13/2011		6.2000	*	1.8000
Cobalt, total	ug/L	MW-8	03/28/2012		4.4000	*	1.8000
Cobalt, total	ug/L	MW-8	09/11/2012		12.6000	*	1.8000
Cobalt, total	ug/L	MW-8	03/26/2013	ND	4.0000		1.8000
Cobalt, total	ug/L	MW-8	09/25/2013	ND	4.0000		1.8000
Cobalt, total	ug/L	MW-8	03/20/2014		17.3000	*	1.8000
Cobalt, total	ug/L	MW-8	09/15/2014	ND	0.8000		1.8000
Cobalt, total	ug/L	MW-8	03/06/2015		0.8000		1.8000
Cobalt, total	ug/L	MW-8	08/24/2015		0.9000		1.8000
Cobalt, total	ug/L	MW-8	03/01/2016		1.2000		1.8000
Cobalt, total	ug/L	MW-8	09/09/2016		4.3000	*	1.8000

* - 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
Cobalt, total	ug/L	MW-8	03/22/2017	ND	0.8000	1.8000
Cobalt, total	ug/L	MW-8	08/24/2017	ND	0.8000	1.8000
Cobalt, total	ug/L	MW-8	02/26/2018	ND	0.8000	1.8000
Cobalt, total	ug/L	MW-8	08/29/2018		1.6000	1.8000
Cobalt, total	ug/L	MW-8	03/18/2019	ND	0.8000	1.8000
Cobalt, total	ug/L	MW-8	09/10/2019		1.0000	1.8000
Cobalt, total	ug/L	MW-8	03/25/2020	ND	0.8000	1.8000
Cobalt, total	ug/L	MW-8	09/04/2020		0.5000	1.8000
Cobalt, total	ug/L	MW-8	03/02/2021		2.1000 *	1.8000
Cobalt, total	ug/L	MW-8	09/02/2021		1.4000	1.8000
Cobalt, total	ug/L	MW-8	03/02/2022		0.6000	1.8000
Cobalt, total	ug/L	MW-8	08/29/2022		2.1000 *	1.8000
Cobalt, total	ug/L	MW-8	03/23/2023	ND	0.4000	1.8000
Cobalt, total	ug/L	MW-8	09/25/2023		0.6000	1.8000
Cobalt, total	ug/L	MW-8	03/05/2024		0.6000	1.8000
Cobalt, total	ug/L	MW-8	09/30/2024		3.1000 *	1.8000
Cobalt, total	ug/L	MW-8	03/06/2025		0.8000	1.8000
Nickel, total	ug/L	MW-8	03/26/2008		9.0000 *	4.0000
Nickel, total	ug/L	MW-8	05/06/2008		5.0000 *	4.0000
Nickel, total	ug/L	MW-8	07/23/2008		20.0000 *	4.0000
Nickel, total	ug/L	MW-8	09/30/2008		25.7000 *	4.0000
Nickel, total	ug/L	MW-8	12/02/2008		30.3000 *	4.0000
Nickel, total	ug/L	MW-8	03/05/2009		15.4000 *	4.0000
Nickel, total	ug/L	MW-8	09/01/2009		21.2000 *	4.0000
Nickel, total	ug/L	MW-8	03/23/2010		16.8000 *	4.0000
Nickel, total	ug/L	MW-8	09/09/2010		19.6000 *	4.0000
Nickel, total	ug/L	MW-8	03/29/2011		20.2000 *	4.0000
Nickel, total	ug/L	MW-8	09/13/2011		19.8000 *	4.0000
Nickel, total	ug/L	MW-8	03/28/2012		14.9000 *	4.0000
Nickel, total	ug/L	MW-8	09/11/2012		23.3000 *	4.0000
Nickel, total	ug/L	MW-8	03/26/2013		10.2000 *	4.0000
Nickel, total	ug/L	MW-8	09/25/2013		10.6000 *	4.0000
Nickel, total	ug/L	MW-8	03/20/2014		30.3000 *	4.0000
Nickel, total	ug/L	MW-8	09/15/2014	ND	4.0000	4.0000
Nickel, total	ug/L	MW-8	03/06/2015		5.0000 *	4.0000
Nickel, total	ug/L	MW-8	08/24/2015		6.9000 *	4.0000
Nickel, total	ug/L	MW-8	03/01/2016		5.4000 *	4.0000
Nickel, total	ug/L	MW-8	09/09/2016		17.4000 *	4.0000
Nickel, total	ug/L	MW-8	10/31/2016		9.8000 *	4.0000
Nickel, total	ug/L	MW-8	03/22/2017		5.5000 *	4.0000
Nickel, total	ug/L	MW-8	08/24/2017		13.7000 *	4.0000
Nickel, total	ug/L	MW-8	02/26/2018		7.6000 *	4.0000
Nickel, total	ug/L	MW-8	08/29/2018		11.8000 *	4.0000
Nickel, total	ug/L	MW-8	03/18/2019		4.7000 *	4.0000
Nickel, total	ug/L	MW-8	09/10/2019		14.9000 *	4.0000
Nickel, total	ug/L	MW-8	03/25/2020	ND	4.0000	4.0000
Nickel, total	ug/L	MW-8	09/04/2020		9.2000 *	4.0000
Nickel, total	ug/L	MW-8	03/02/2021		6.0000 *	4.0000
Nickel, total	ug/L	MW-8	09/02/2021		13.2000 *	4.0000
Nickel, total	ug/L	MW-8	03/02/2022		4.2000 *	4.0000
Nickel, total	ug/L	MW-8	08/29/2022		13.5000 *	4.0000
Nickel, total	ug/L	MW-8	03/23/2023	ND	4.0000	4.0000
Nickel, total	ug/L	MW-8	09/25/2023		15.2000 *	4.0000
Nickel, total	ug/L	MW-8	03/05/2024		5.5000 *	4.0000
Nickel, total	ug/L	MW-8	09/30/2024		13.3000 *	4.0000
Nickel, total	ug/L	MW-8	03/06/2025		5.4000 *	4.0000

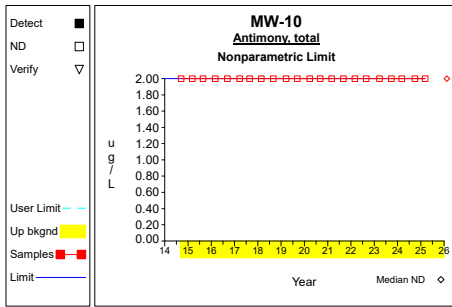
* - Significantly increased over background.

** - Detect at limit for 100% NDs in background (NPPL only).

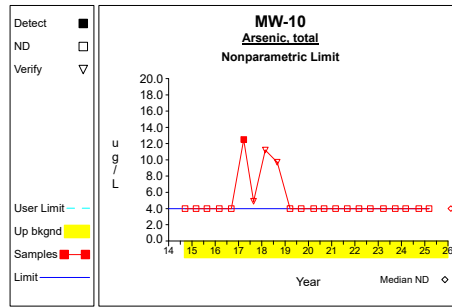
*** - Manual exclusion.

ND = Not Detected, Result = detection limit.

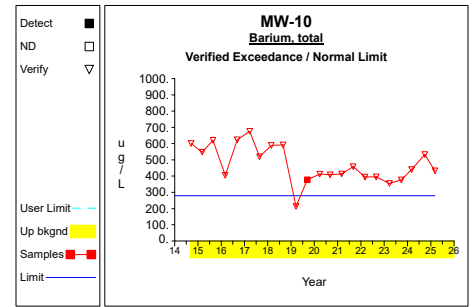
Up vs. Down Prediction Limits



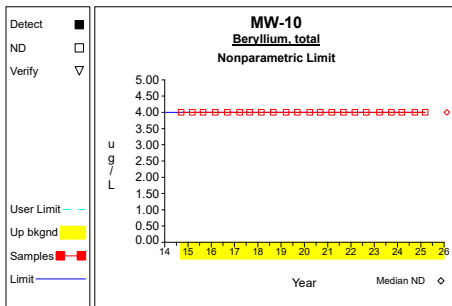
Graph 1



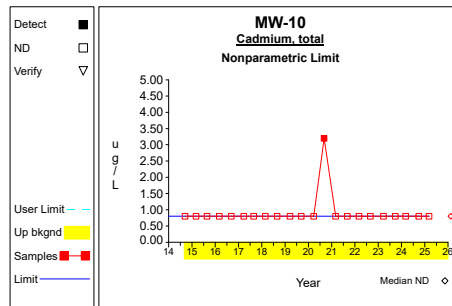
Graph 2



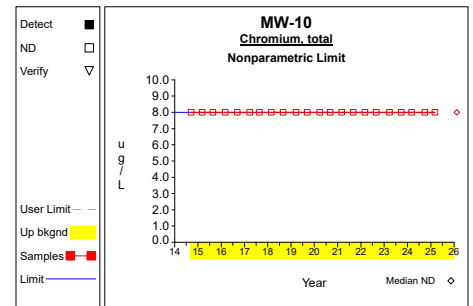
Graph 3



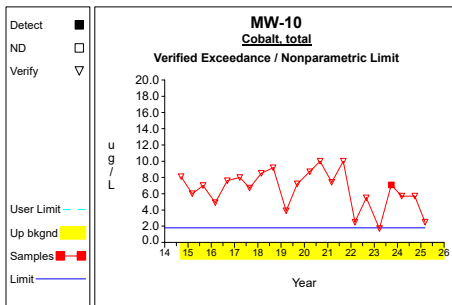
Graph 4



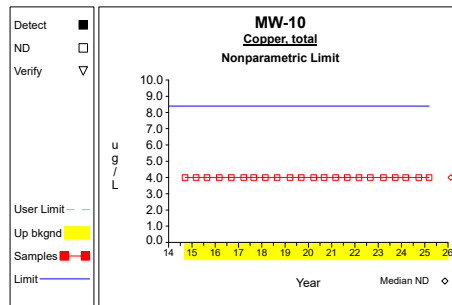
Graph 5



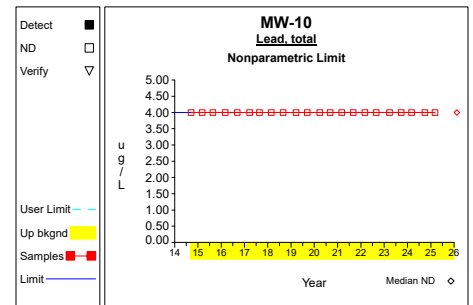
Graph 6



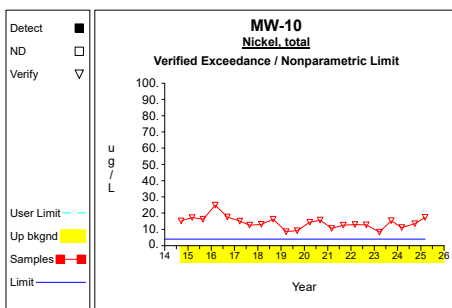
Graph 7



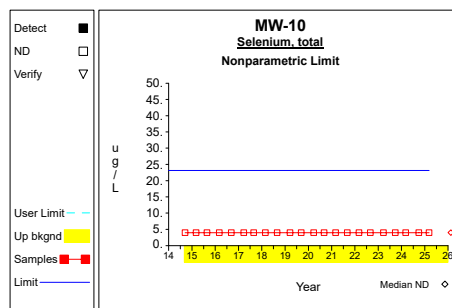
Graph 8



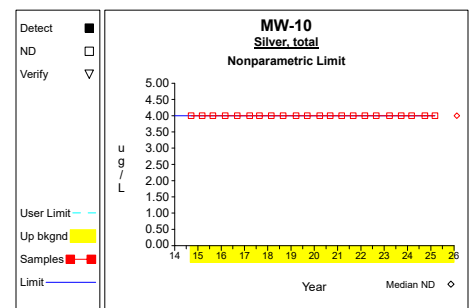
Graph 9



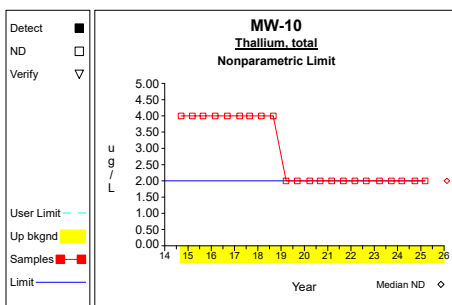
Graph 10



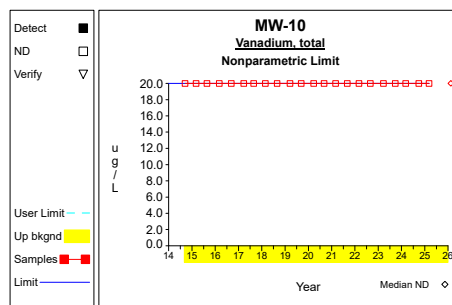
Graph 11



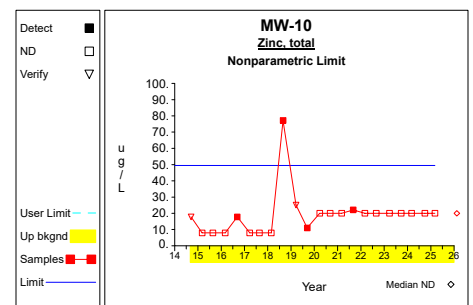
Graph 12



Graph 13

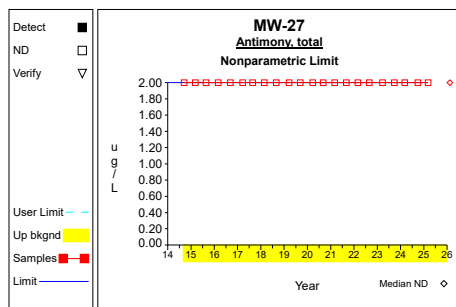


Graph 14

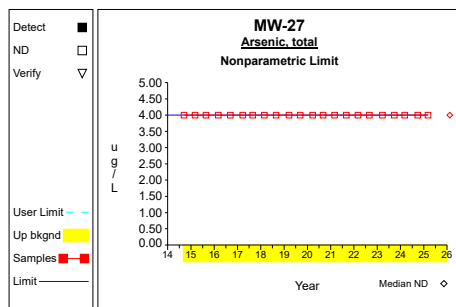


Graph 15

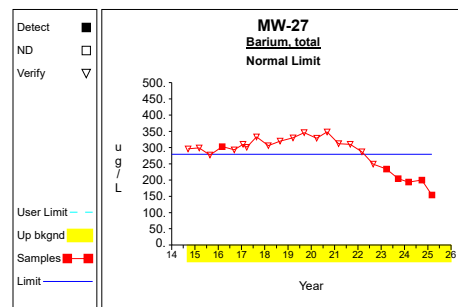
Up vs. Down Prediction Limits



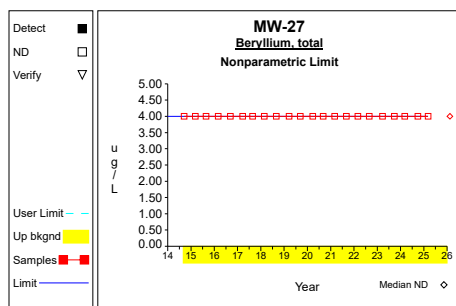
Graph 16



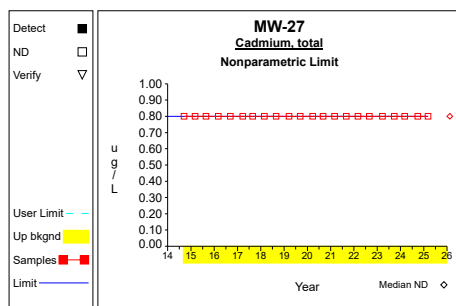
Graph 17



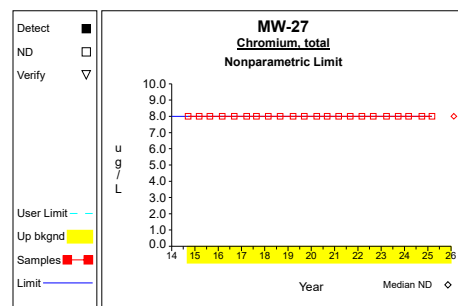
Graph 18



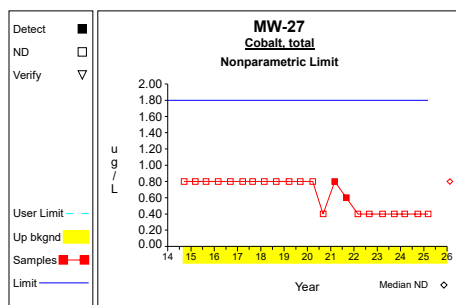
Graph 19



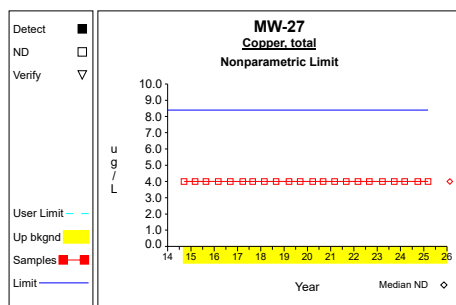
Graph 20



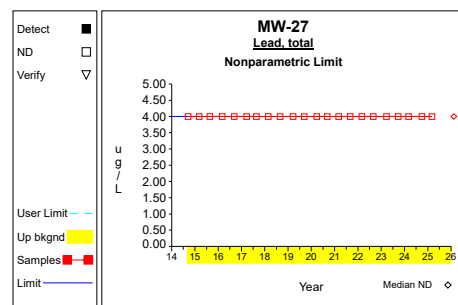
Graph 21



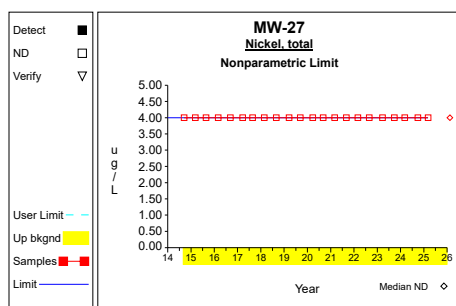
Graph 22



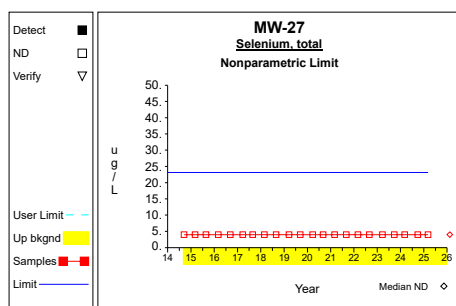
Graph 23



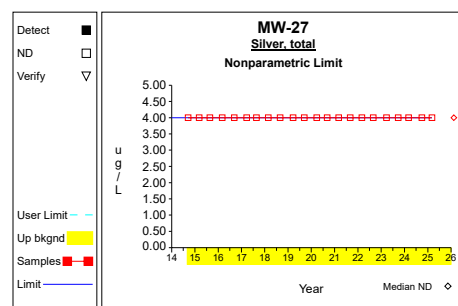
Graph 24



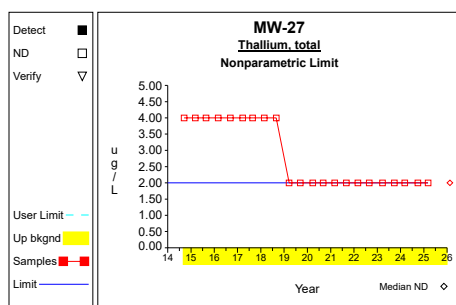
Graph 25



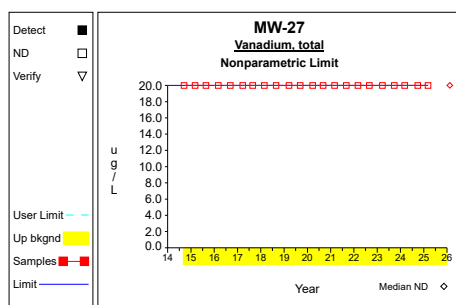
Graph 26



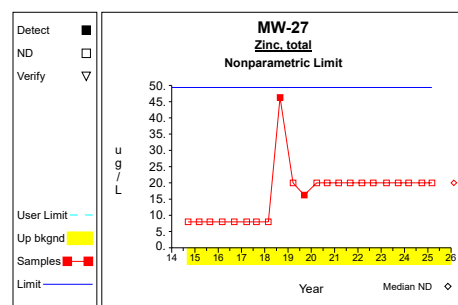
Graph 27



Graph 28

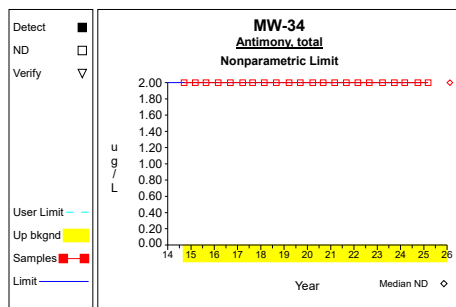


Graph 29

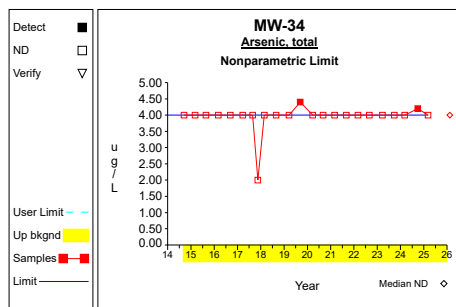


Graph 30

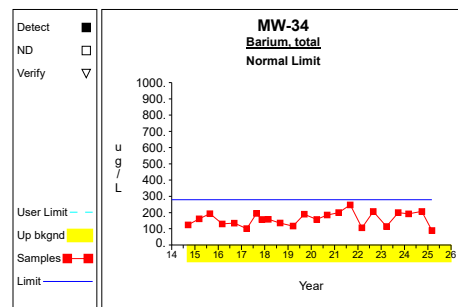
Up vs. Down Prediction Limits



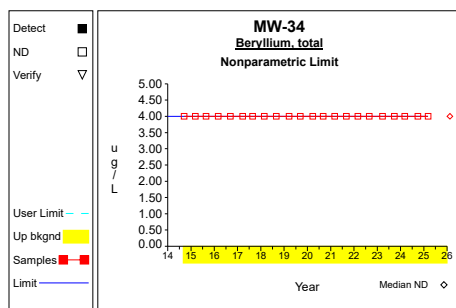
Graph 31



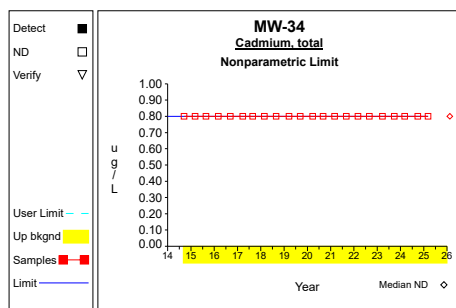
Graph 32



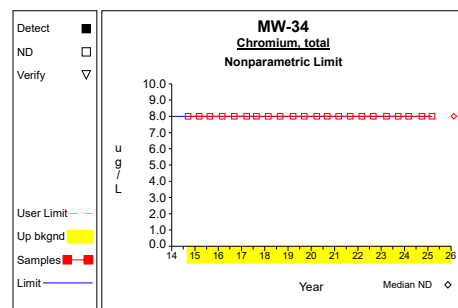
Graph 33



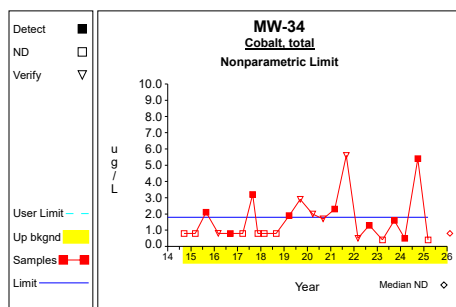
Graph 34



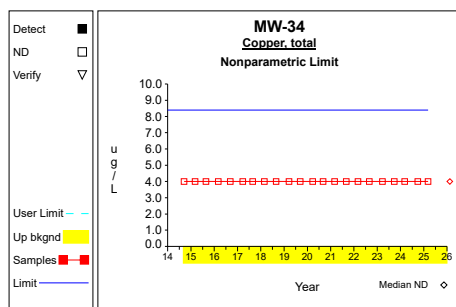
Graph 35



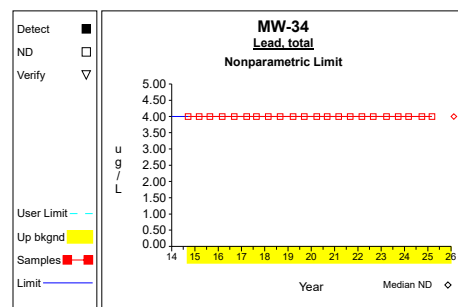
Graph 36



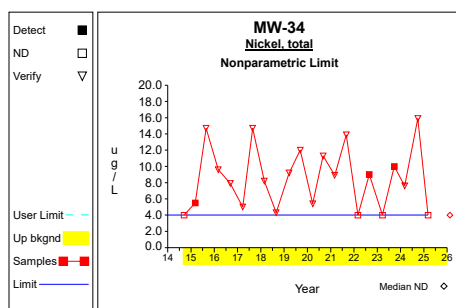
Graph 37



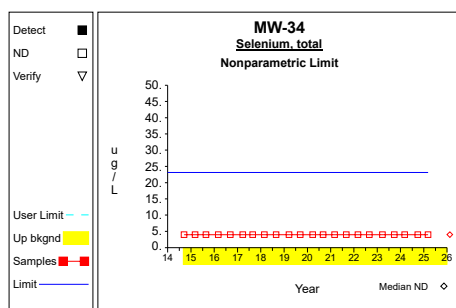
Graph 38



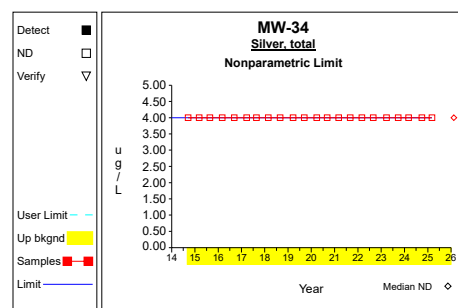
Graph 39



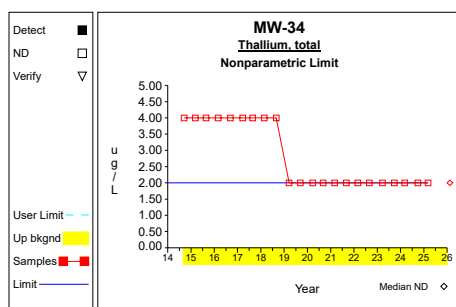
Graph 40



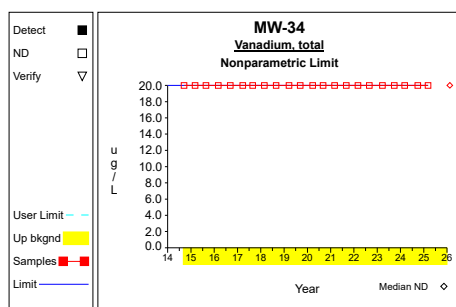
Graph 41



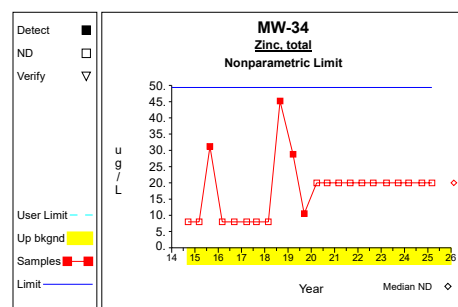
Graph 42



Graph 43

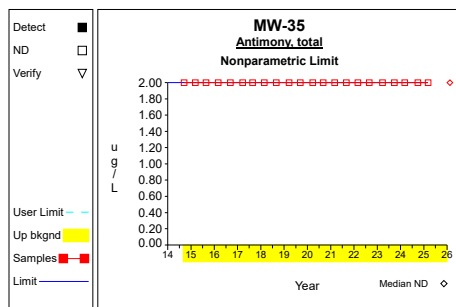


Graph 44

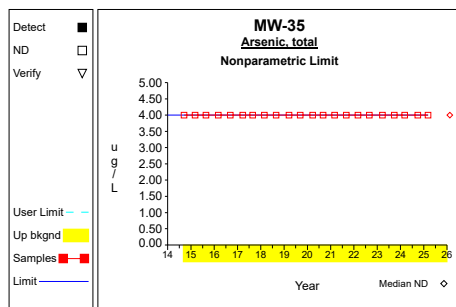


Graph 45

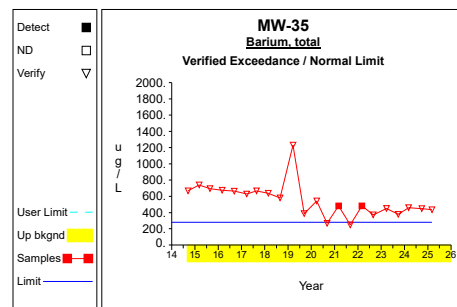
Up vs. Down Prediction Limits



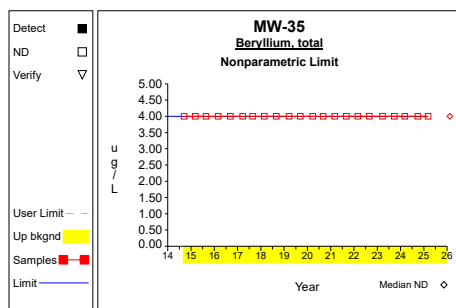
Graph 46



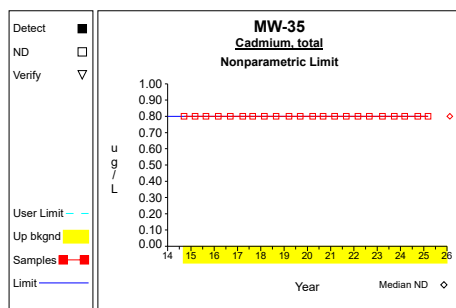
Graph 47



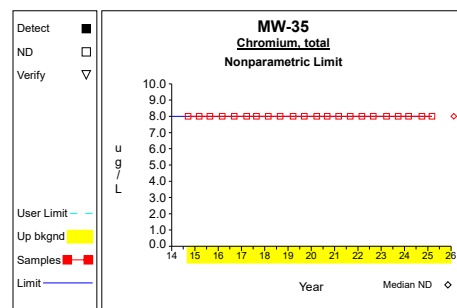
Graph 48



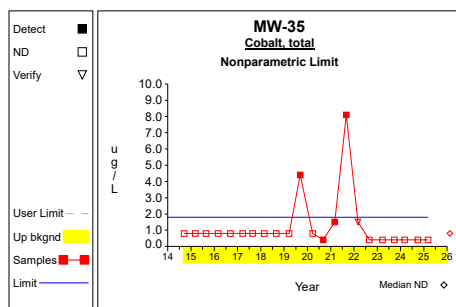
Graph 49



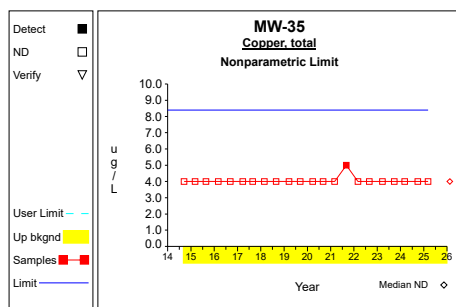
Graph 50



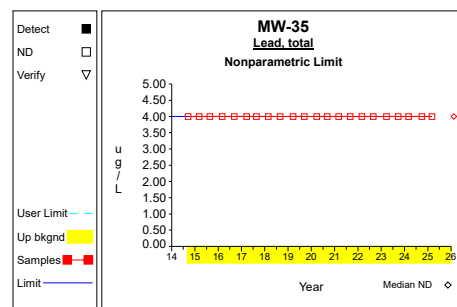
Graph 51



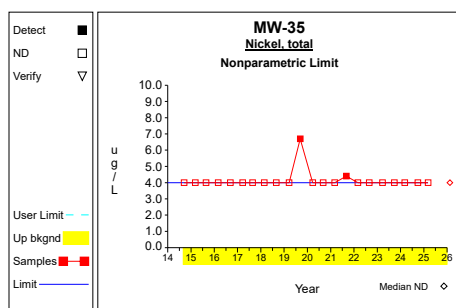
Graph 52



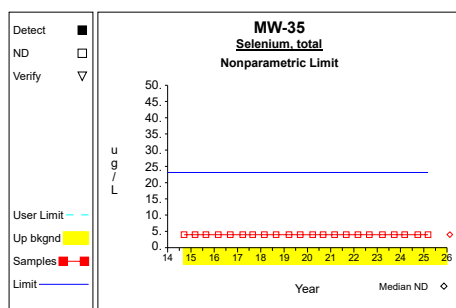
Graph 53



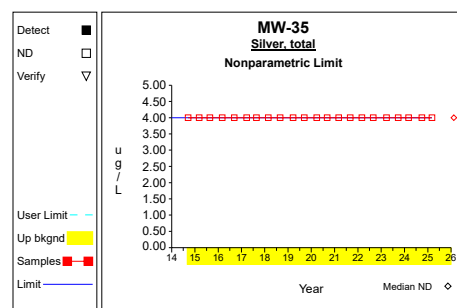
Graph 54



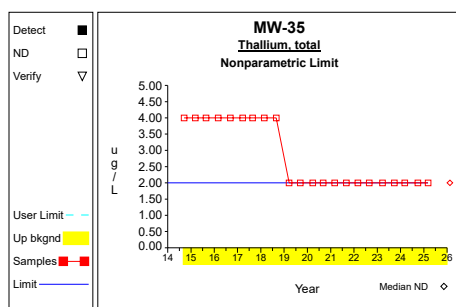
Graph 55



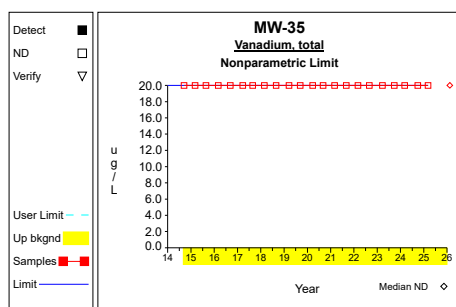
Graph 56



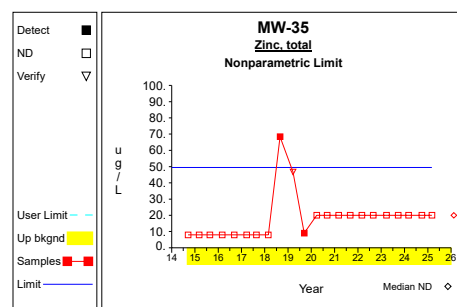
Graph 57



Graph 58

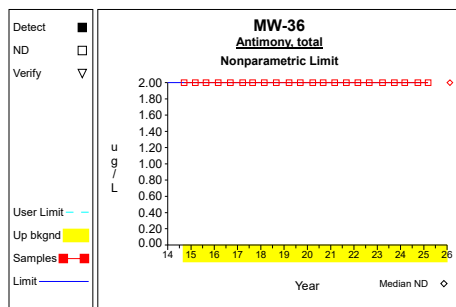


Graph 59

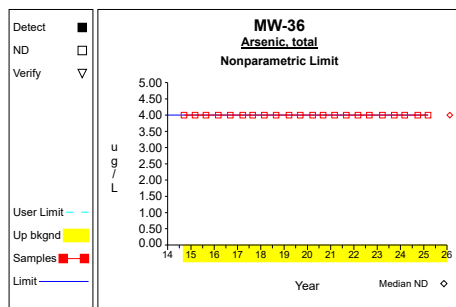


Graph 60

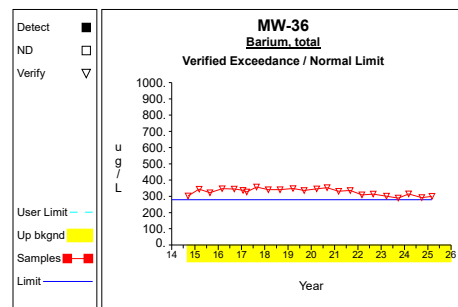
Up vs. Down Prediction Limits



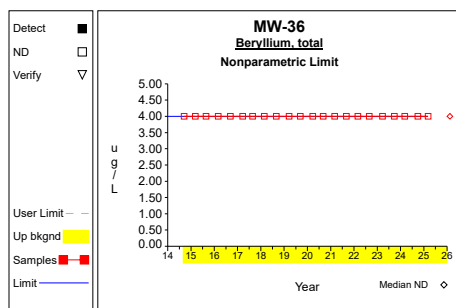
Graph 61



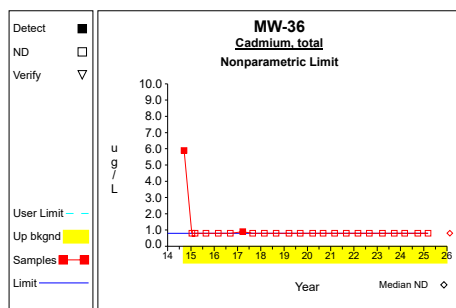
Graph 62



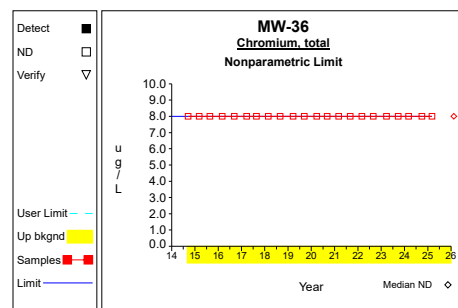
Graph 63



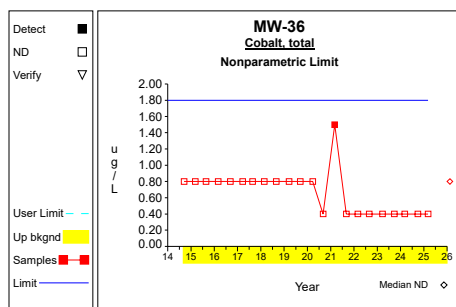
Graph 64



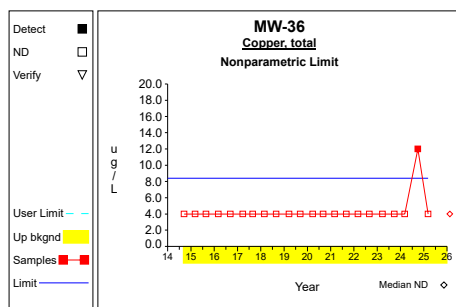
Graph 65



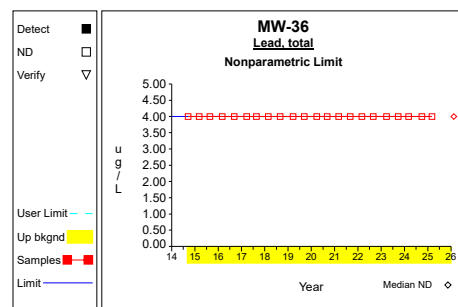
Graph 66



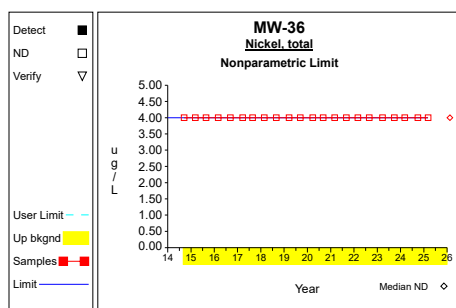
Graph 67



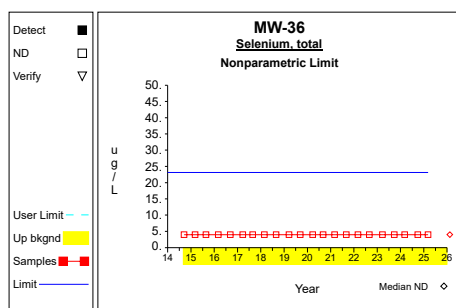
Graph 68



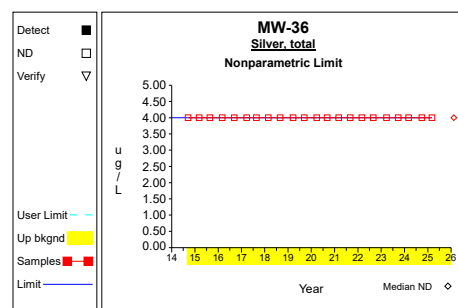
Graph 69



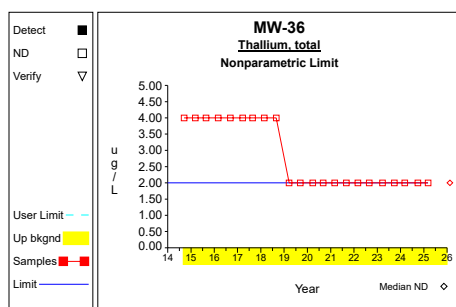
Graph 70



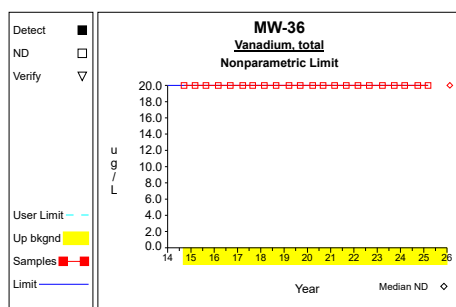
Graph 71



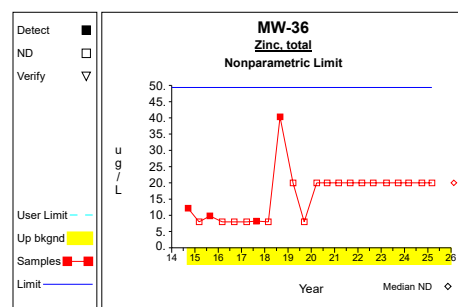
Graph 72



Graph 73

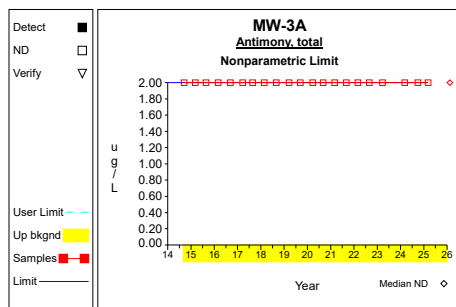


Graph 74

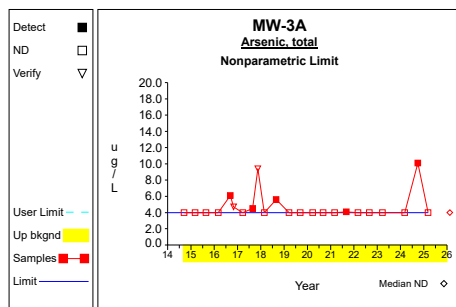


Graph 75

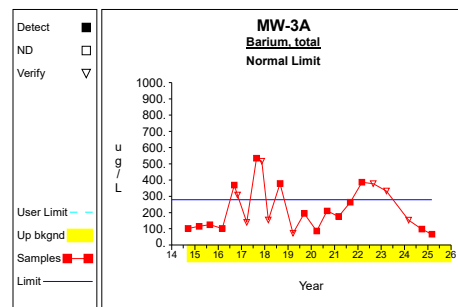
Up vs. Down Prediction Limits



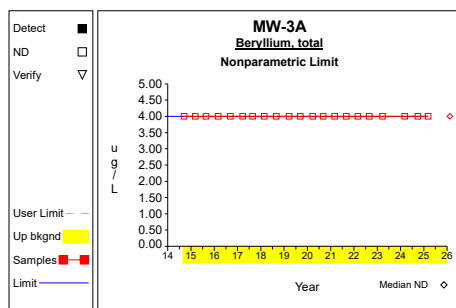
Graph 76



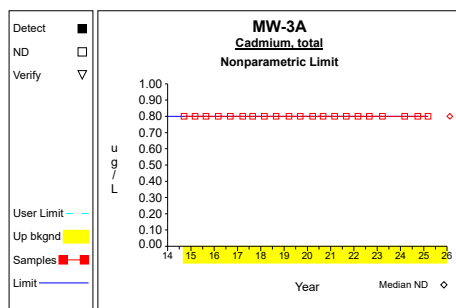
Graph 77



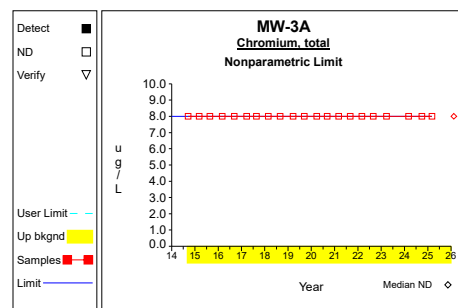
Graph 78



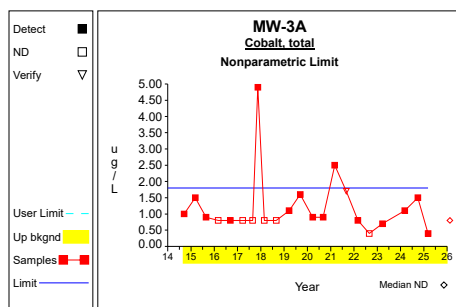
Graph 79



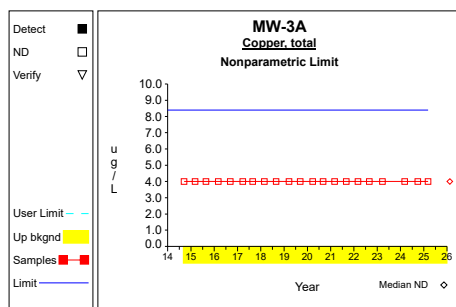
Graph 80



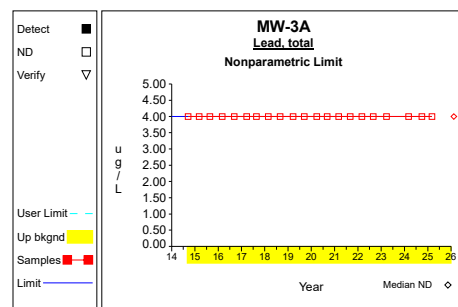
Graph 81



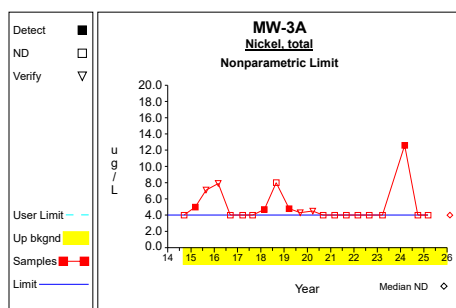
Graph 82



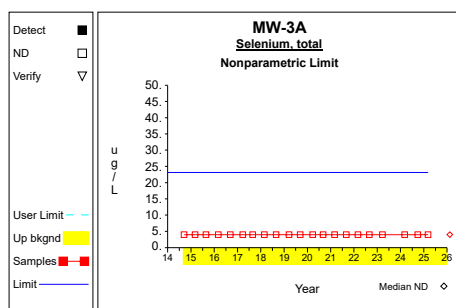
Graph 83



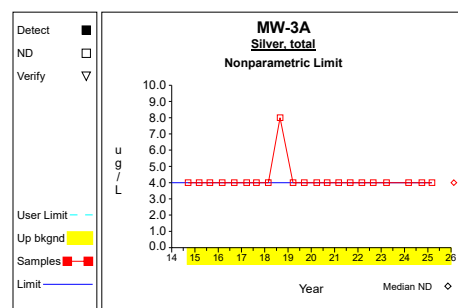
Graph 84



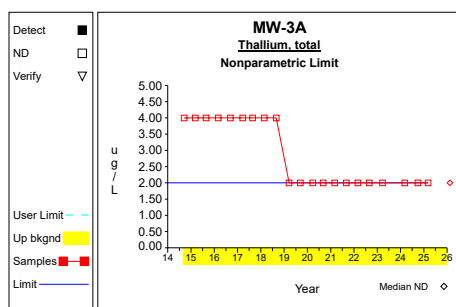
Graph 85



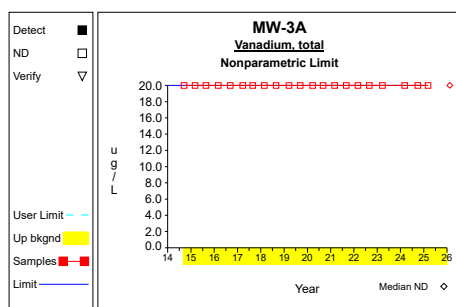
Graph 86



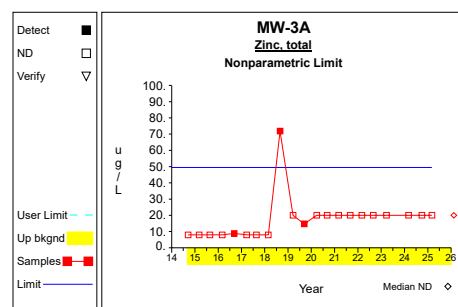
Graph 87



Graph 88

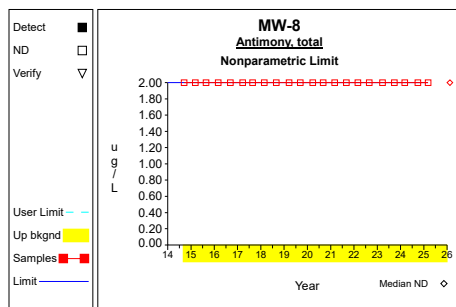


Graph 89

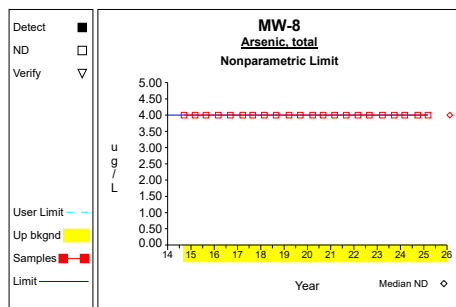


Graph 90

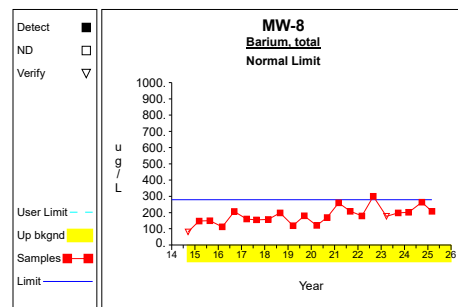
Up vs. Down Prediction Limits



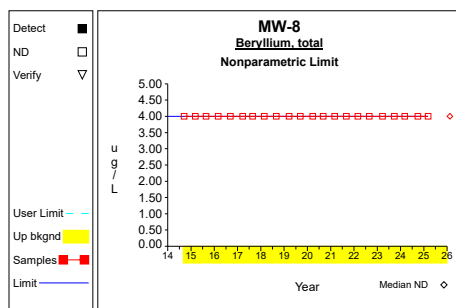
Graph 91



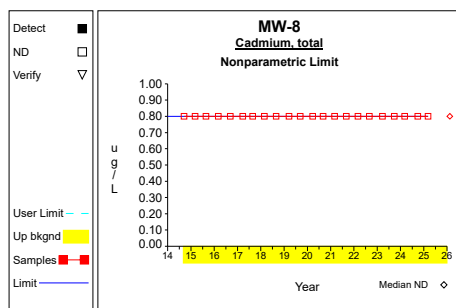
Graph 92



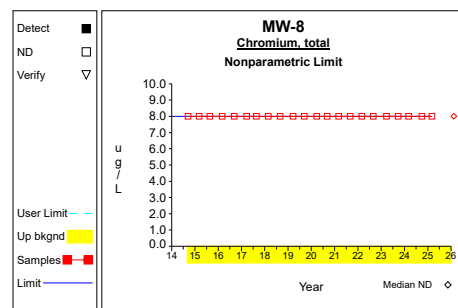
Graph 93



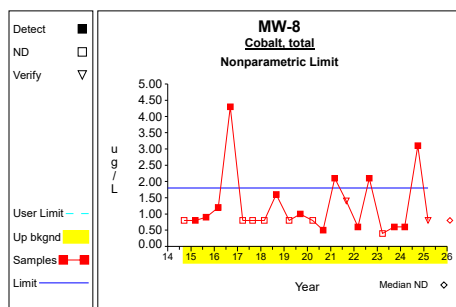
Graph 94



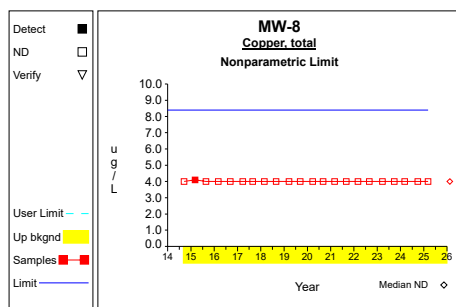
Graph 95



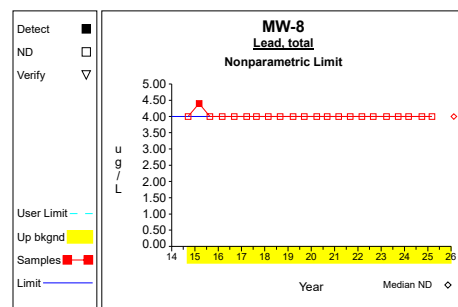
Graph 96



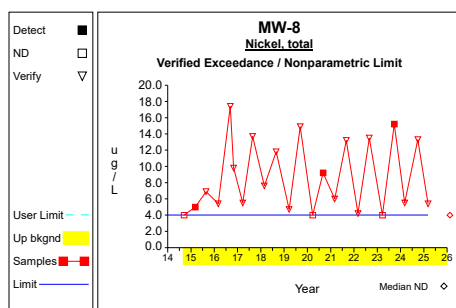
Graph 97



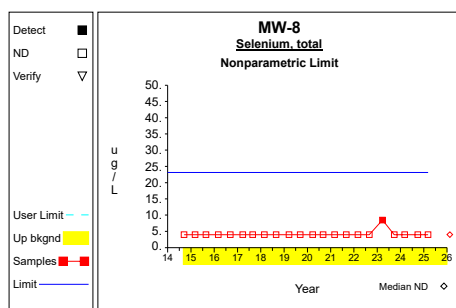
Graph 98



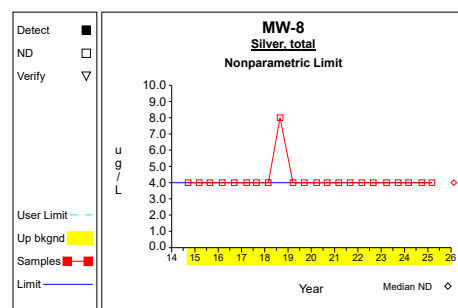
Graph 99



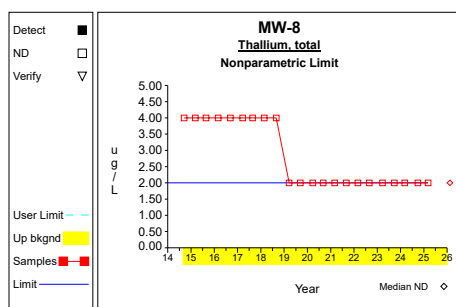
Graph 100



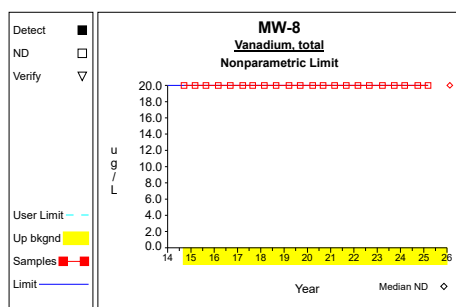
Graph 101



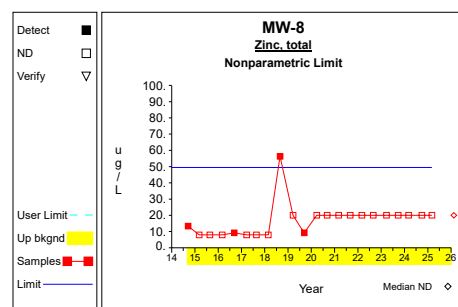
Graph 102



Graph 103

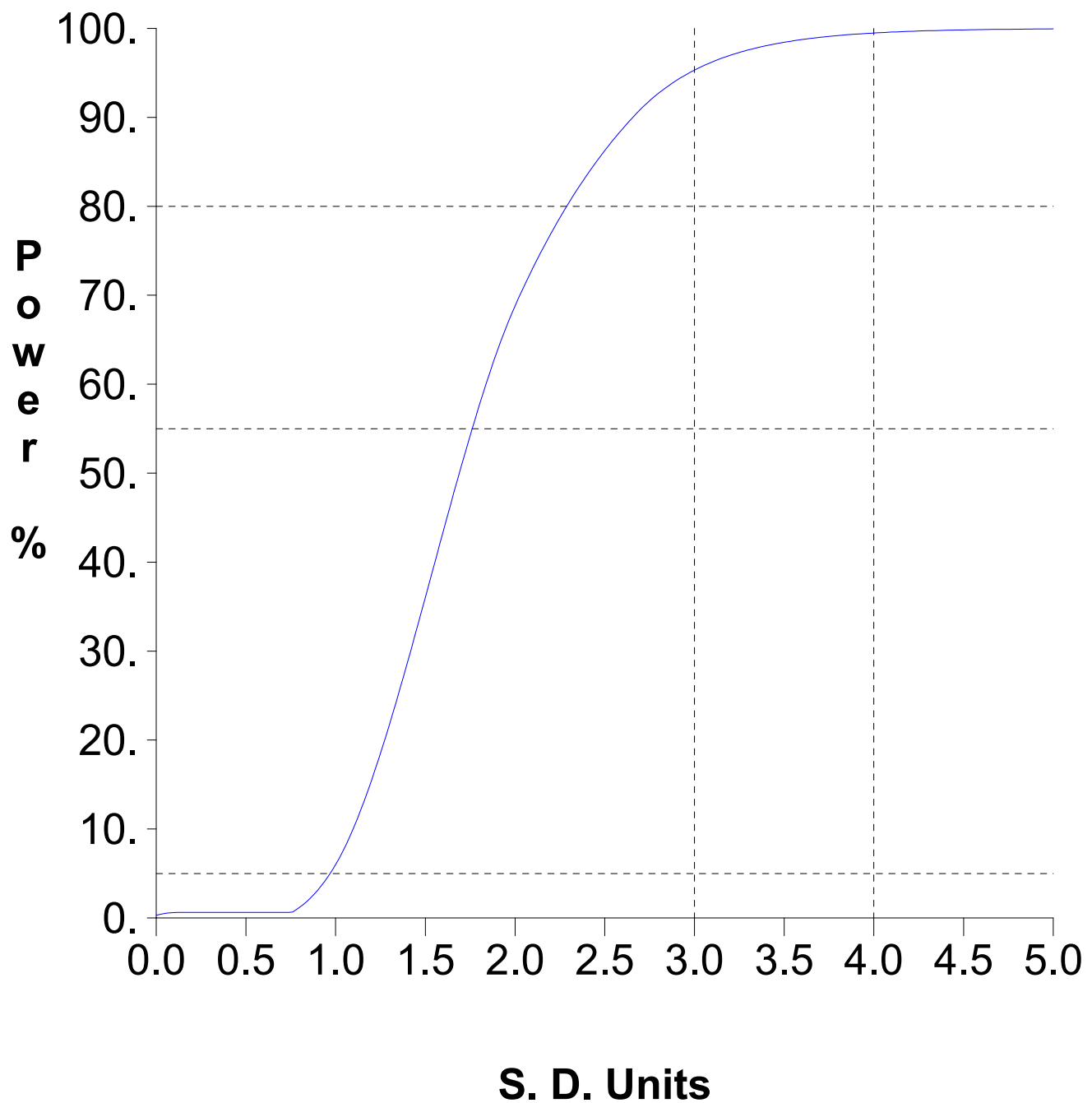


Graph 104



Graph 105

False Positive and False Negative Rates for Current Upgradient vs. Downgradient Monitoring Program



Attachment C

Assessment Statistics for 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	
Arsenic, total	ug/L	MW-10	4	2.000	0.000	1.176	2.000	2.000	10.000		
Barium, total	ug/L	MW-10	4	445.250	65.061	1.176	368.720	521.780	2000.000		
Cobalt, total	ug/L	MW-10	4	5.250	1.949	1.176	2.958	7.542	2.100	dec	**
Nickel, total	ug/L	MW-10	4	14.350	2.689	1.176	11.187	17.513	100.000	dec	
Arsenic, total	ug/L	MW-34	4	2.550	1.100	1.176	1.256	3.844	10.000		
Barium, total	ug/L	MW-34	4	172.100	55.473	1.176	106.848	237.352	2000.000	dec	
Cobalt, total	ug/L	MW-34	4	1.975	2.347	1.176	0.000	4.736	2.100		
Nickel, total	ug/L	MW-34	4	8.875	5.759	1.176	2.100	15.650	100.000	dec	
Arsenic, total	ug/L	MW-35	4	2.000	0.000	1.176	2.000	2.000	10.000		
Barium, total	ug/L	MW-35	4	430.250	36.299	1.176	387.552	472.948	2000.000	dec	
Cobalt, total	ug/L	MW-35	4	0.400	0.000	1.176	0.400	0.400	2.100		
Nickel, total	ug/L	MW-35	4	2.000	0.000	1.176	2.000	2.000	100.000		
Arsenic, total	ug/L	MW-36	4	2.000	0.000	1.176	2.000	2.000	10.000		
Barium, total	ug/L	MW-36	4	299.000	11.633	1.176	285.316	312.684	2000.000		
Cobalt, total	ug/L	MW-36	4	0.400	0.000	1.176	0.400	0.400	2.100		
Nickel, total	ug/L	MW-36	4	2.000	0.000	1.176	2.000	2.000	100.000		
Arsenic, total	ug/L	MW-3A	4	4.025	4.050	1.176	0.000	8.789	10.000		
Barium, total	ug/L	MW-3A	4	162.700	118.977	1.176	22.749	302.651	2000.000		
Cobalt, total	ug/L	MW-3A	4	0.925	0.479	1.176	0.362	1.488	2.100		
Nickel, total	ug/L	MW-3A	4	4.650	5.300	1.176	0.000	10.884	100.000		
Arsenic, total	ug/L	MW-8	4	2.000	0.000	1.176	2.000	2.000	10.000		
Barium, total	ug/L	MW-8	4	217.750	31.117	1.176	181.148	254.352	2000.000		
Cobalt, total	ug/L	MW-8	4	1.275	1.220	1.176	0.000	2.710	2.100		
Nickel, total	ug/L	MW-8	4	9.850	5.140	1.176	3.804	15.896	100.000	dec	

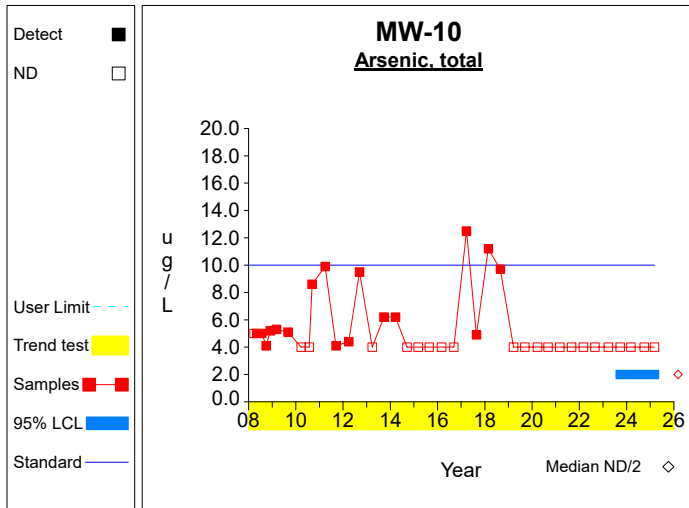
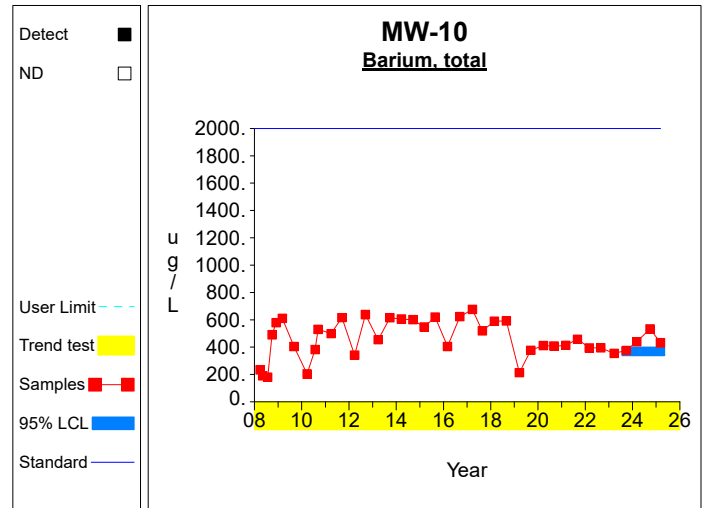
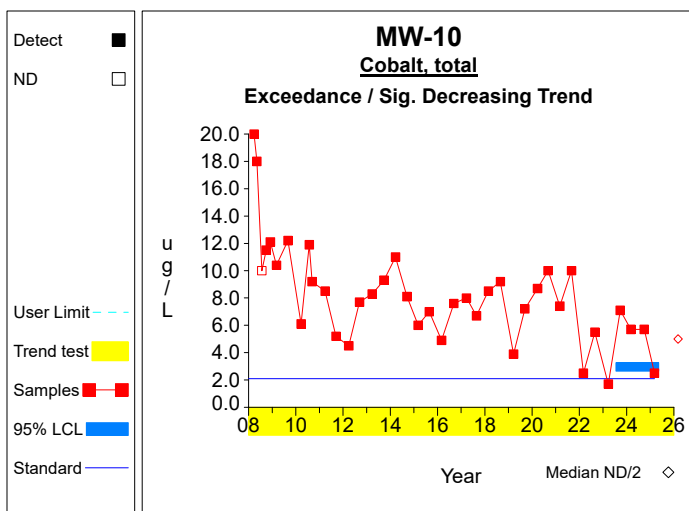
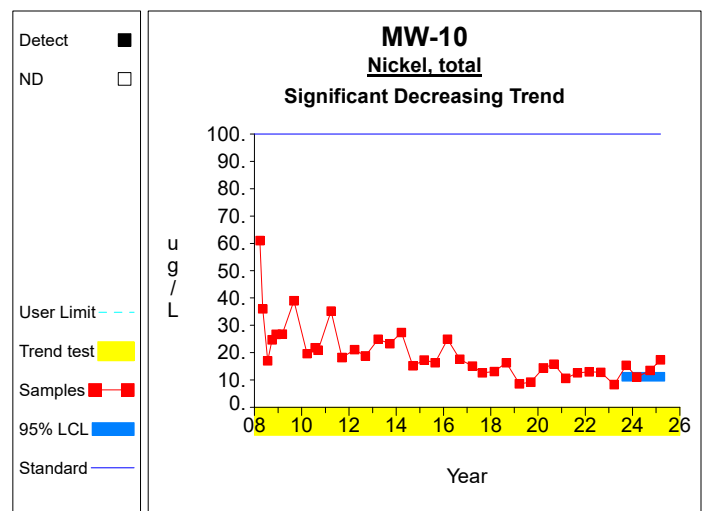
* - Insufficient Data

** - Significant Exceedance

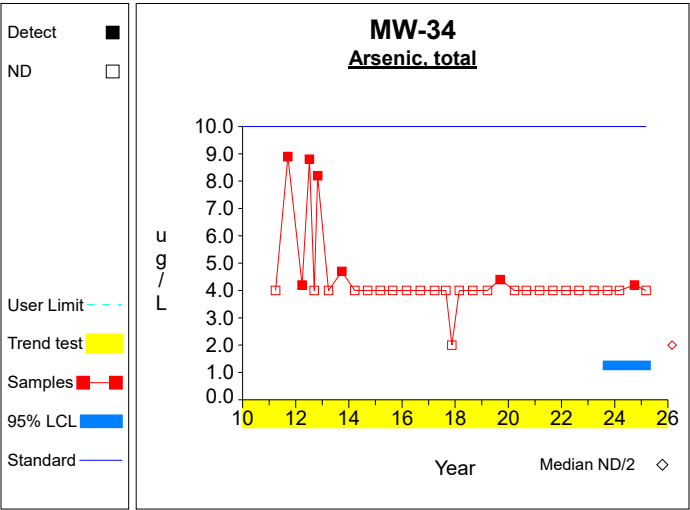
LCL = Lower Confidence Limit

UCL = Upper Confidence Limit

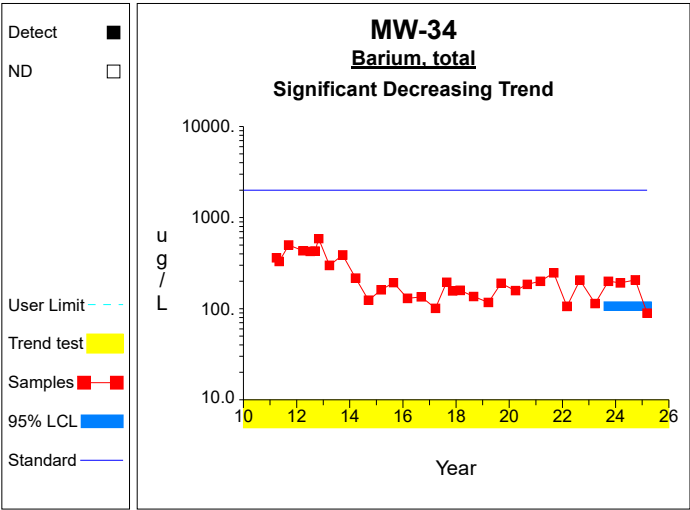
Confidence Limits (Assessment)

**Graph 1****Graph 2****Graph 3****Graph 4**

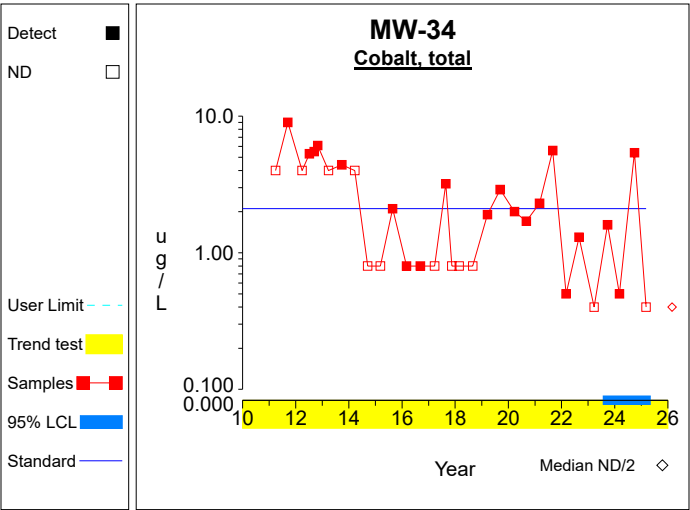
Confidence Limits (Assessment)



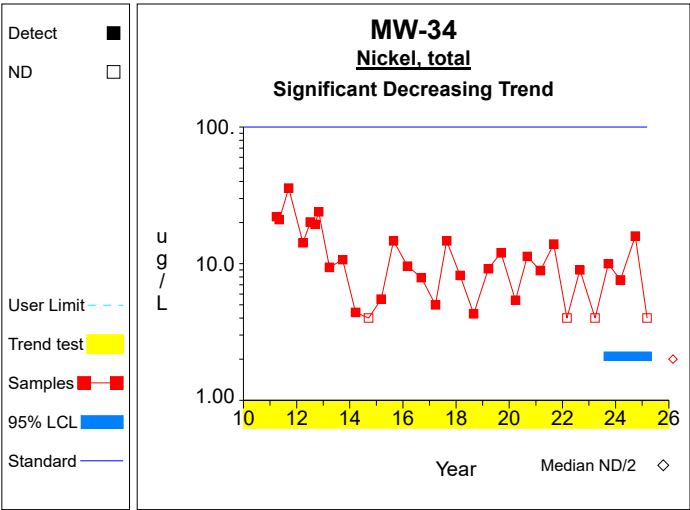
Graph 5



Graph 6

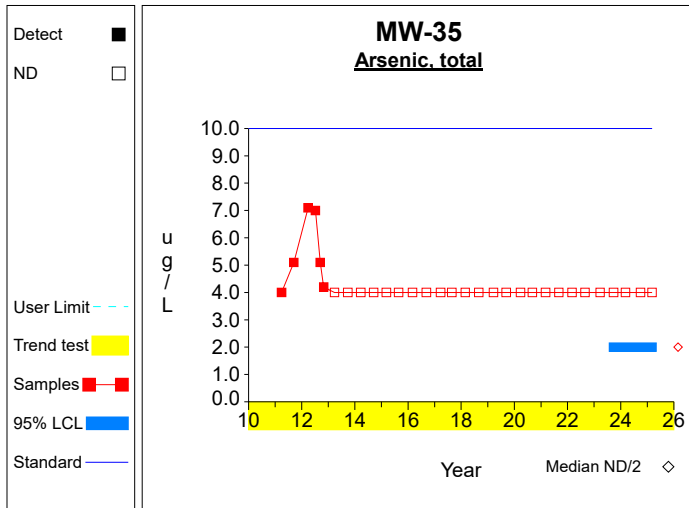


Graph 7

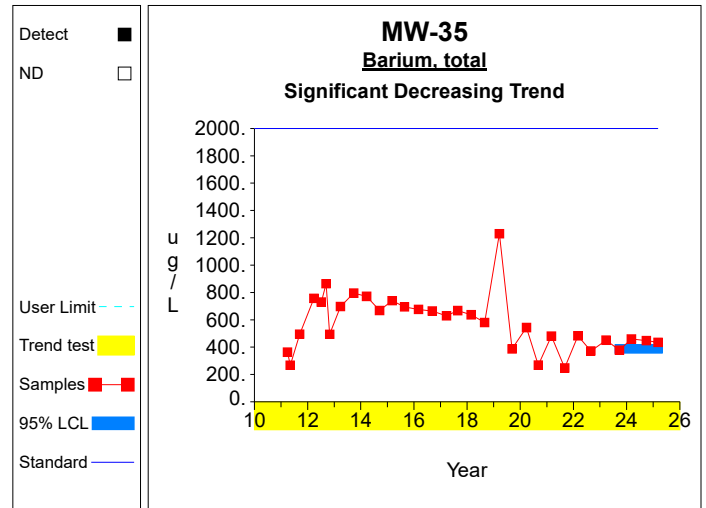


Graph 8

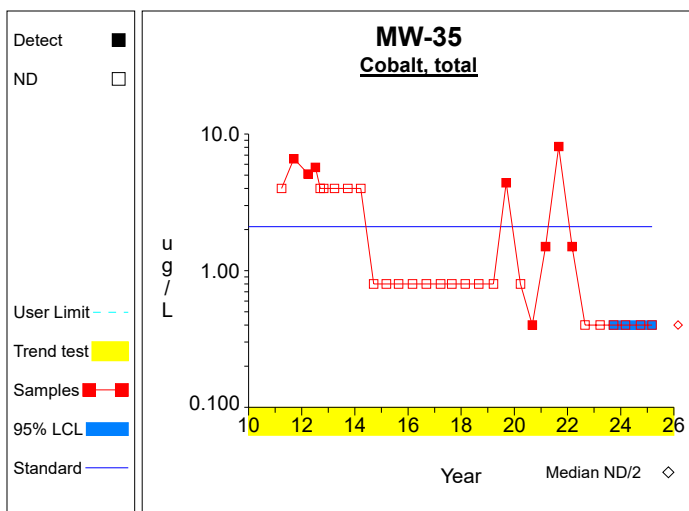
Confidence Limits (Assessment)



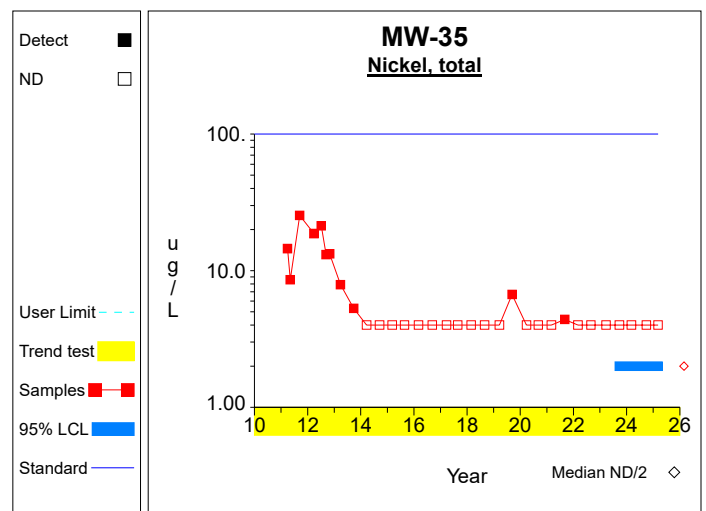
Graph 9



Graph 10

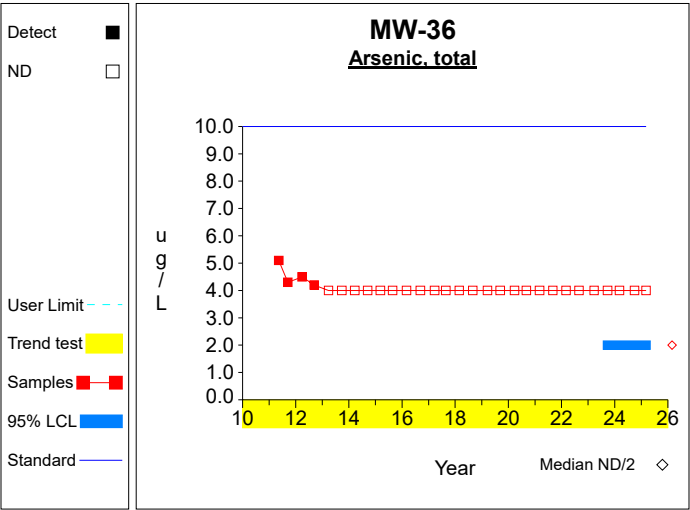


Graph 11

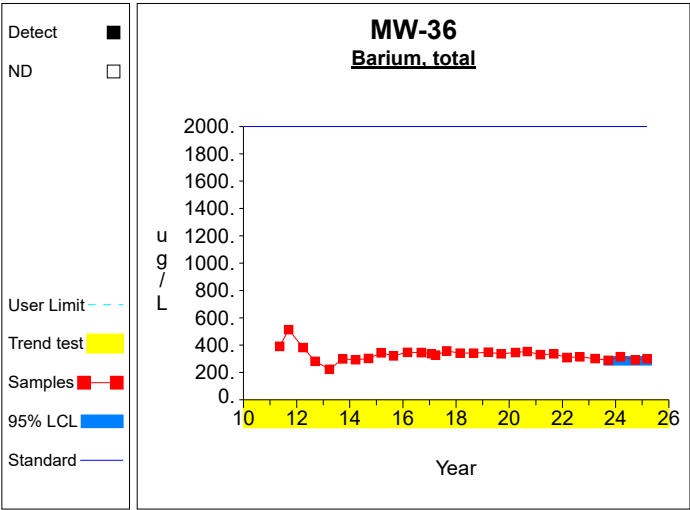


Graph 12

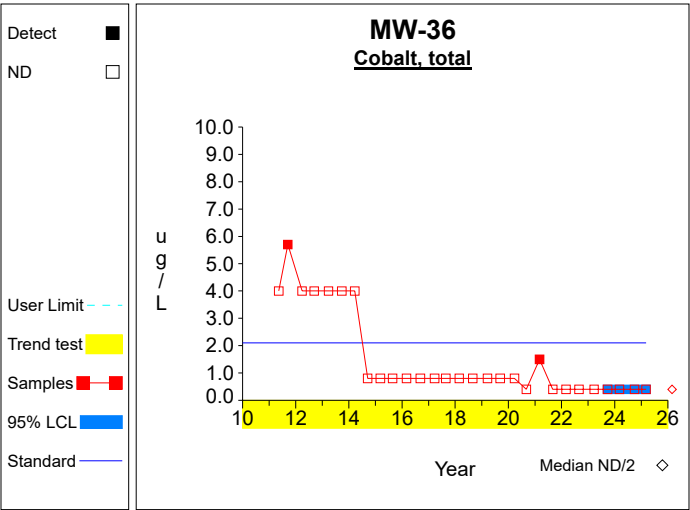
Confidence Limits (Assessment)



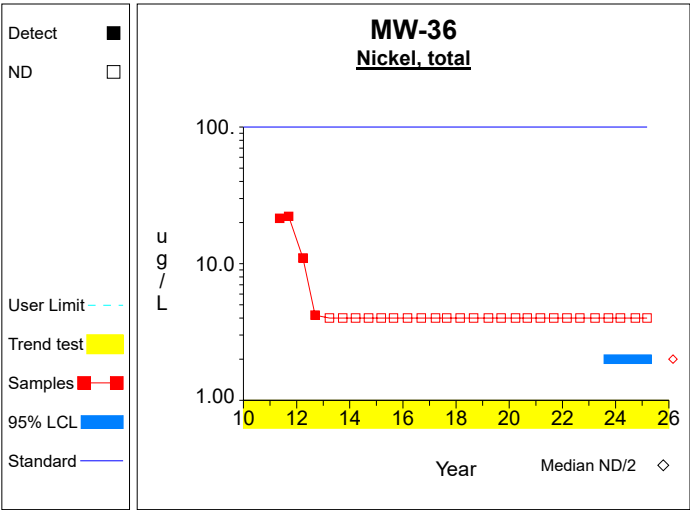
Graph 13



Graph 14

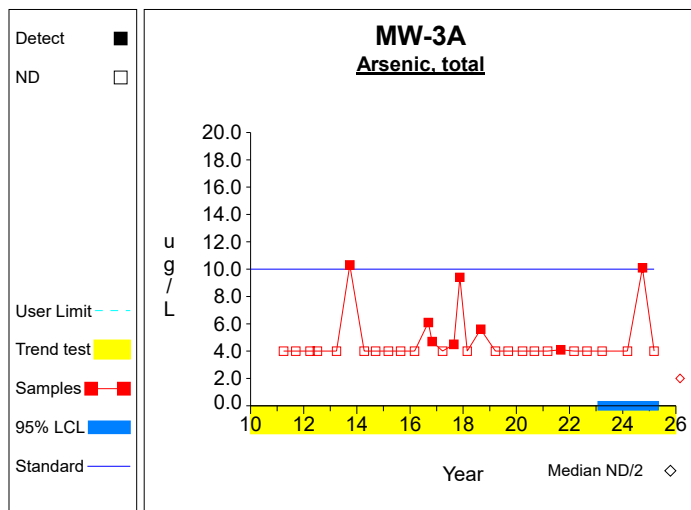


Graph 15

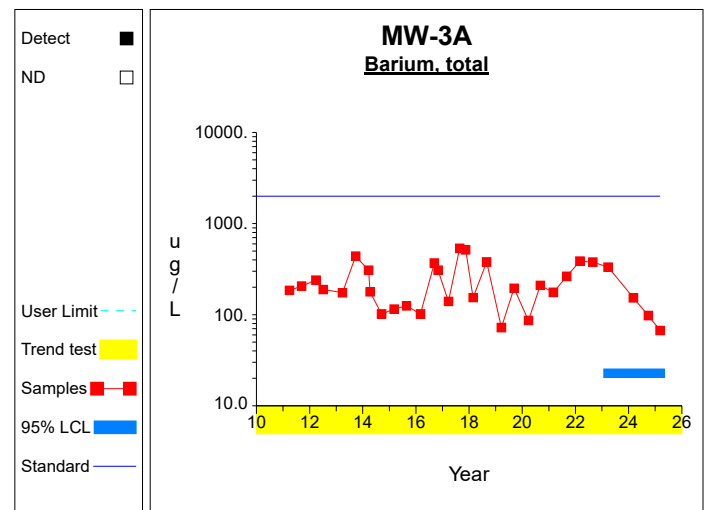


Graph 16

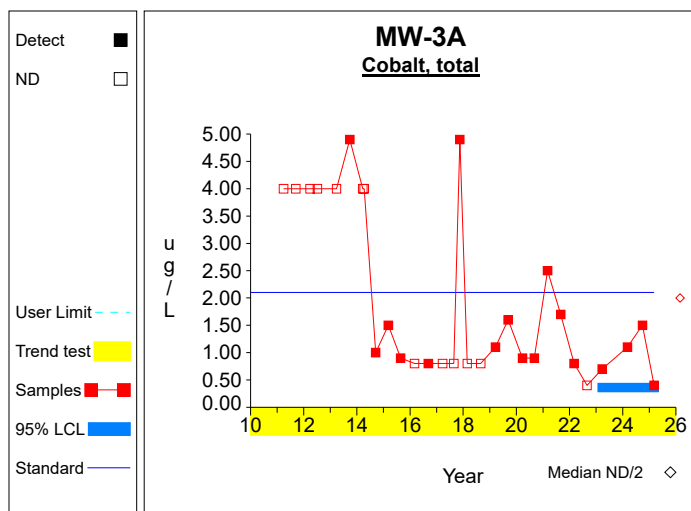
Confidence Limits (Assessment)



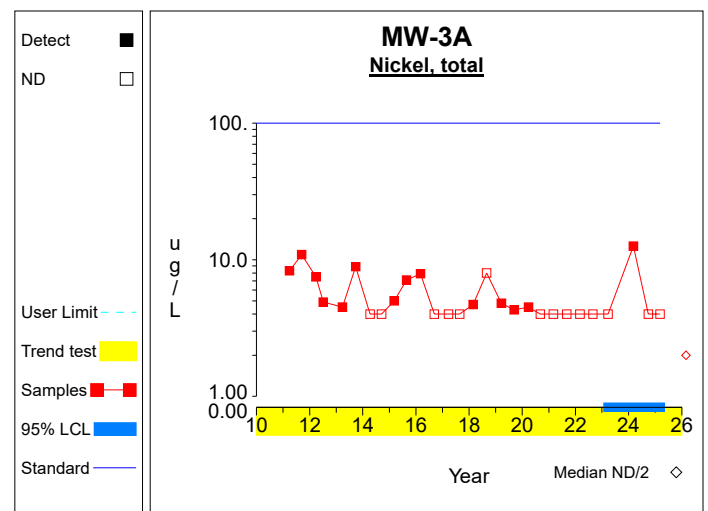
Graph 17



Graph 18

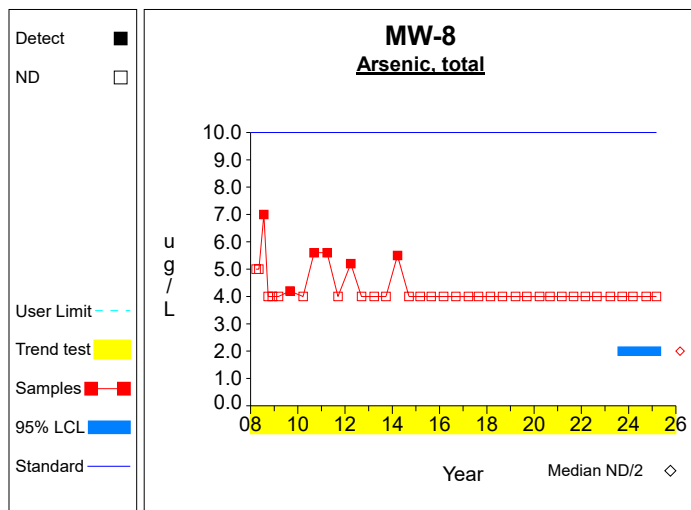


Graph 19

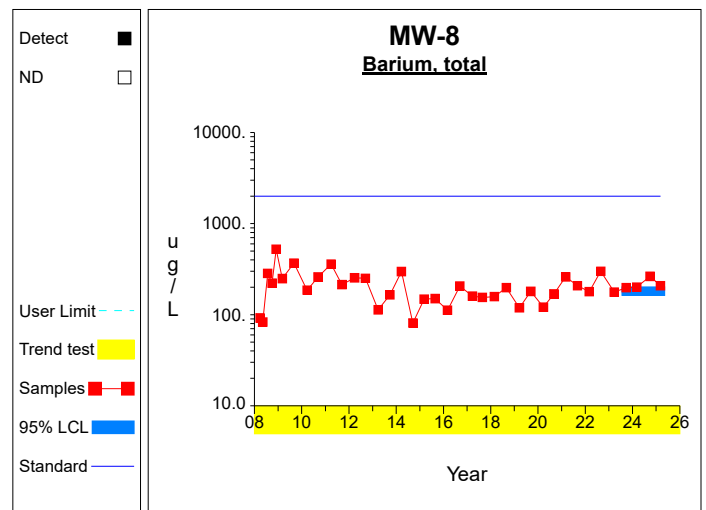


Graph 20

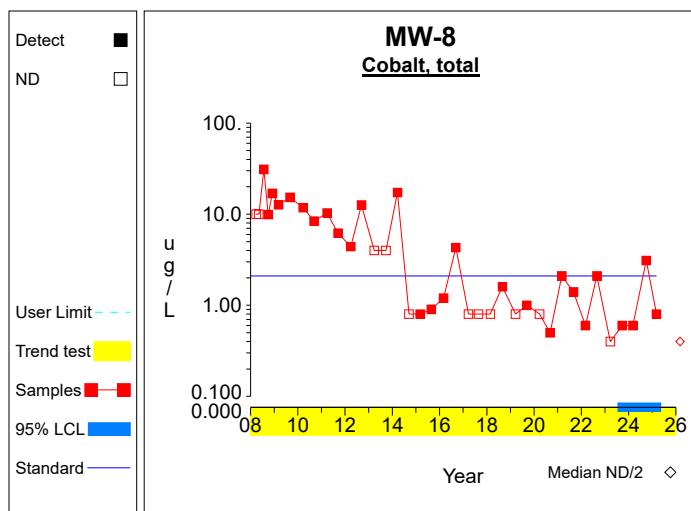
Confidence Limits (Assessment)



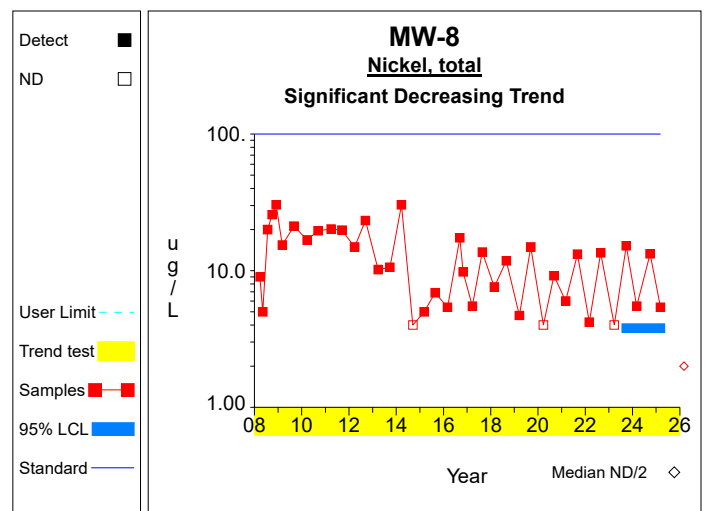
Graph 21



Graph 22



Graph 23



Graph 24

Attachment D

Summary of Historical VOC Detections

Table 1

Historical Volatile Organic Compound Detections

Constituent	Well	Date	Identifier	Result	Limit	Units
1,2-dichloroethane	MW-10	7/23/1992		1.4	1.0	ug/L
1,4-dichlorobenzene	MW-10	7/23/2008		1.0	1.0	ug/L
1,4-dichlorobenzene	MW-10	9/30/2008		1.5	1.0	ug/L
1,4-dichlorobenzene	MW-10	12/02/2008		1.1	1.0	ug/L
1,4-dichlorobenzene	MW-10	3/05/2009		1.2	1.0	ug/L
1,4-dichlorobenzene	MW-10	9/01/2009		1.3	1.0	ug/L
1,4-dichlorobenzene	MW-10	3/23/2010		1.4	1.0	ug/L
1,4-dichlorobenzene	MW-10	7/26/2010		7.8	1.0	ug/L
1,4-dichlorobenzene	MW-10	9/09/2010		3.8	1.0	ug/L
1,4-dichlorobenzene	MW-10	3/29/2011		1.0	1.0	ug/L
1,4-dichlorobenzene	MW-10	9/13/2011		1.0	1.0	ug/L
1,4-dichlorobenzene	MW-10	3/28/2012		1.4	1.0	ug/L
1,4-dichlorobenzene	MW-10	9/11/2012		1.8	1.0	ug/L
1,4-dichlorobenzene	MW-10	3/26/2013		1.2	1.0	ug/L
1,4-dichlorobenzene	MW-10	8/24/2015		1.3	1.0	ug/L
1,4-dichlorobenzene	MW-10	9/09/2016		1.1	1.0	ug/L
1,4-dichlorobenzene	MW-10	3/22/2017		2.4	1.0	ug/L
1,4-dichlorobenzene	MW-10	8/24/2017		2.3	1.0	ug/L
1,4-dichlorobenzene	MW-10	2/26/2018		2.7	1.0	ug/L
1,4-dichlorobenzene	MW-10	8/29/2018		3.0	1.0	ug/L
1,4-dichlorobenzene	MW-10	9/04/2020		3.2	1.0	ug/L
1,4-dichlorobenzene	MW-10	3/02/2021		2.3	1.0	ug/L
1,4-dichlorobenzene	MW-10	9/02/2021		2.8	1.0	ug/L
1,4-dichlorobenzene	MW-10	8/29/2022		2.0	1.0	ug/L
1,4-dichlorobenzene	MW-10	9/25/2023		1.9	1.0	ug/L
1,4-dichlorobenzene	MW-10	3/05/2024		1.5	1.0	ug/L
1,4-dichlorobenzene	MW-10	9/30/2024		2.5	1.0	ug/L
Benzene	MW-10	7/23/1992		1.2	1.0	ug/L
Benzene	MW-10	7/23/2008		2.5	1.0	ug/L
Benzene	MW-10	9/30/2008		1.5	1.0	ug/L
Benzene	MW-10	12/02/2008		1.1	1.0	ug/L
Benzene	MW-10	9/01/2009		1.3	1.0	ug/L
Benzene	MW-10	7/26/2010		4.1	1.0	ug/L
Benzene	MW-10	9/09/2010		2.8	1.0	ug/L
Chlorobenzene	MW-10	3/26/2008		1.1	1.0	ug/L
Chlorobenzene	MW-10	7/23/2008		2.6	1.0	ug/L
Chlorobenzene	MW-10	9/30/2008		2.8	1.0	ug/L
Chlorobenzene	MW-10	12/02/2008		2.6	1.0	ug/L
Chlorobenzene	MW-10	3/05/2009		2.2	1.0	ug/L
Chlorobenzene	MW-10	9/01/2009		2.1	1.0	ug/L
Chlorobenzene	MW-10	3/23/2010		1.4	1.0	ug/L
Chlorobenzene	MW-10	7/26/2010		5.4	1.0	ug/L
Chlorobenzene	MW-10	9/09/2010		4.4	1.0	ug/L
Chlorobenzene	MW-10	3/29/2011		1.3	1.0	ug/L
Chlorobenzene	MW-10	9/13/2011		1.4	1.0	ug/L
Chlorobenzene	MW-10	3/28/2012		1.1	1.0	ug/L
Chlorobenzene	MW-10	9/11/2012		2.4	1.0	ug/L
Chlorobenzene	MW-10	3/26/2013		1.3	1.0	ug/L
Chlorobenzene	MW-10	9/25/2013		1.0	1.0	ug/L
Chlorobenzene	MW-10	3/20/2014		1.1	1.0	ug/L
Chlorobenzene	MW-10	9/15/2014		1.2	1.0	ug/L
Chlorobenzene	MW-10	8/24/2015		1.4	1.0	ug/L
Chlorobenzene	MW-10	9/09/2016		1.1	1.0	ug/L
Chlorobenzene	MW-10	3/22/2017		2.3	1.0	ug/L
Chlorobenzene	MW-10	8/24/2017		2.3	1.0	ug/L
Chlorobenzene	MW-10	2/26/2018		2.4	1.0	ug/L
Chlorobenzene	MW-10	8/29/2018		2.6	1.0	ug/L
Chlorobenzene	MW-10	3/18/2019		1.0	1.0	ug/L
Chlorobenzene	MW-10	9/10/2019		2.4	1.0	ug/L
Chlorobenzene	MW-10	3/25/2020		1.1	1.0	ug/L
Chlorobenzene	MW-10	9/04/2020		2.5	1.0	ug/L
Chlorobenzene	MW-10	3/02/2021		1.9	1.0	ug/L
Chlorobenzene	MW-10	9/02/2021		2.7	1.0	ug/L
Chlorobenzene	MW-10	8/29/2022		1.7	1.0	ug/L
Chlorobenzene	MW-10	9/25/2023		1.7	1.0	ug/L
Chlorobenzene	MW-10	9/30/2024		1.5	1.0	ug/L
Chloroethane	MW-10	7/23/2008		1.7	1.0	ug/L
Chloroethane	MW-10	9/30/2008		2.7	1.0	ug/L
Chloroethane	MW-10	12/02/2008		2.6	1.0	ug/L
Chloroethane	MW-10	3/05/2009		1.5	1.0	ug/L
Chloroethane	MW-10	9/01/2009		1.8	1.0	ug/L
Chloroethane	MW-10	7/26/2010		3.0	1.0	ug/L
Chloroethane	MW-10	9/09/2010		4.2	1.0	ug/L
Chloroethane	MW-10	9/13/2011		1.4	1.0	ug/L
Chloroethane	MW-10	9/11/2012		2.2	1.0	ug/L
Chloroethane	MW-10	3/22/2017		1.0	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

Table 1

Historical Volatile Organic Compound Detections

Constituent	Well	Date	Identifier	Result	Limit	Units
Chloroethane	MW-10	8/29/2018		1.0	1.0	ug/L
Chloroethane	MW-10	8/29/2022		1.6	1.0	ug/L
Cis-1,2-dichloroethylene	MW-10	7/23/2008		1.0	1.0	ug/L
Cis-1,2-dichloroethylene	MW-10	9/30/2008		1.1	1.0	ug/L
Cis-1,2-dichloroethylene	MW-10	12/02/2008		1.0	1.0	ug/L
Cis-1,2-dichloroethylene	MW-10	9/09/2010		1.1	1.0	ug/L
Trichloroethylene	MW-10	10/13/1992		2.8	2.0	ug/L
Bis(2-ethylhexyl) phthalate	MW-27	2/26/2018		71	6	ug/L
Bis(2-ethylhexyl) phthalate	MW-27	3/18/2019		13	6	ug/L
1,1-dichloroethane	MW-34	10/30/2012		3.2	1.0	ug/L
1,4-dichlorobenzene	MW-34	9/13/2011		1.1	1.0	ug/L
1,4-dichlorobenzene	MW-34	8/24/2015		5.8	1.0	ug/L
1,4-dichlorobenzene	MW-34	3/01/2016		8.8	1.0	ug/L
1,4-dichlorobenzene	MW-34	9/09/2016		8.7	1.0	ug/L
1,4-dichlorobenzene	MW-34	3/22/2017		4.9	1.0	ug/L
1,4-dichlorobenzene	MW-34	8/24/2017		7.9	1.0	ug/L
1,4-dichlorobenzene	MW-34	2/26/2018		2.1	1.0	ug/L
1,4-dichlorobenzene	MW-34	8/29/2018		2.6	1.0	ug/L
1,4-dichlorobenzene	MW-34	9/04/2020		7.0	1.0	ug/L
1,4-dichlorobenzene	MW-34	3/02/2021		10.6	1.0	ug/L
1,4-dichlorobenzene	MW-34	9/02/2021		7.9	1.0	ug/L
1,4-dichlorobenzene	MW-34	3/02/2022		1.5	1.0	ug/L
1,4-dichlorobenzene	MW-34	8/29/2022		3.9	1.0	ug/L
1,4-dichlorobenzene	MW-34	3/23/2023		1.1	1.0	ug/L
1,4-dichlorobenzene	MW-34	9/25/2023		9.4	1.0	ug/L
1,4-dichlorobenzene	MW-34	9/30/2024		1.4	1.0	ug/L
Benzene	MW-34	9/13/2011		1.0	1.0	ug/L
Benzene	MW-34	8/24/2015		1.4	1.0	ug/L
Benzene	MW-34	3/22/2017		1.2	1.0	ug/L
Benzene	MW-34	8/24/2017		1.3	1.0	ug/L
Benzene	MW-34	3/02/2021		1.8	1.0	ug/L
Bis(2-ethylhexyl) phthalate	MW-34	10/30/2012		24	8	ug/L
Bis(2-ethylhexyl) phthalate	MW-34	8/20/2014		14	10	ug/L
Bis(2-ethylhexyl) phthalate	MW-34	9/15/2014		36	10	ug/L
Bis(2-ethylhexyl) phthalate	MW-34	8/24/2015		13	10	ug/L
Bis(2-ethylhexyl) phthalate	MW-34	2/26/2018		145	30	ug/L
Bis(2-ethylhexyl) phthalate	MW-34	9/10/2019		46	6	ug/L
Bis(2-ethylhexyl) phthalate	MW-34	3/02/2022		8	6	ug/L
Chlorobenzene	MW-34	8/24/2015		2.0	1.0	ug/L
Chlorobenzene	MW-34	3/01/2016		2.8	1.0	ug/L
Chlorobenzene	MW-34	9/09/2016		2.7	1.0	ug/L
Chlorobenzene	MW-34	3/22/2017		2.0	1.0	ug/L
Chlorobenzene	MW-34	8/24/2017		3.0	1.0	ug/L
Chlorobenzene	MW-34	3/18/2019		1.2	1.0	ug/L
Chlorobenzene	MW-34	9/10/2019		1.8	1.0	ug/L
Chlorobenzene	MW-34	9/04/2020		2.6	1.0	ug/L
Chlorobenzene	MW-34	3/02/2021		4.1	1.0	ug/L
Chlorobenzene	MW-34	9/02/2021		3.4	1.0	ug/L
Chlorobenzene	MW-34	8/29/2022		1.7	1.0	ug/L
Chlorobenzene	MW-34	9/25/2023		1.8	1.0	ug/L
Chloroethane	MW-34	3/01/2016		1.6	1.0	ug/L
Dichlorodifluoromethane	MW-34	10/30/2012		3.7	1.0	ug/L
1,1-dichloroethane	MW-35	3/29/2011		1.0	1.0	ug/L
1,1-dichloroethane	MW-35	9/13/2011		6.0	1.0	ug/L
1,1-dichloroethane	MW-35	3/28/2012		4.0	1.0	ug/L
1,1-dichloroethane	MW-35	7/05/2012		4.4	1.0	ug/L
1,1-dichloroethane	MW-35	9/11/2012		4.3	1.0	ug/L
1,1-dichloroethane	MW-35	3/26/2013		2.4	1.0	ug/L
1,1-dichloroethane	MW-35	9/25/2013		3.0	1.0	ug/L
1,1-dichloroethane	MW-35	3/20/2014		3.1	1.0	ug/L
1,1-dichloroethane	MW-35	3/01/2016		2.2	1.0	ug/L
1,1-dichloroethane	MW-35	9/09/2016		1.9	1.0	ug/L
1,1-dichloroethane	MW-35	3/22/2017		1.7	1.0	ug/L
1,1-dichloroethane	MW-35	2/26/2018		1.9	1.0	ug/L
1,1-dichloroethane	MW-35	8/29/2018		1.5	1.0	ug/L
1,1-dichloroethane	MW-35	3/18/2019		1.2	1.0	ug/L
1,1-dichloroethane	MW-35	9/10/2019		1.3	1.0	ug/L
1,1-dichloroethane	MW-35	3/25/2020		1.0	1.0	ug/L
Bis(2-ethylhexyl) phthalate	MW-35	7/09/2013		36	10	ug/L
Bis(2-ethylhexyl) phthalate	MW-35	9/15/2014		20	10	ug/L
Bis(2-ethylhexyl) phthalate	MW-35	8/24/2015		13	10	ug/L
Bis(2-ethylhexyl) phthalate	MW-35	8/24/2017		15	6	ug/L
Bis(2-ethylhexyl) phthalate	MW-35	8/29/2018		7	6	ug/L
Dichlorodifluoromethane	MW-35	3/26/2013		1.7	1.0	ug/L
Dichlorodifluoromethane	MW-35	5/17/2013		2.0	1.0	ug/L
Dichlorodifluoromethane	MW-35	7/09/2013		1.5	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

Table 1

Historical Volatile Organic Compound Detections

Constituent	Well	Date	Identifier	Result	Limit	Units
Dichlorodifluoromethane	MW-35	9/25/2013		7.4	1.0	ug/L
Dichlorodifluoromethane	MW-35	3/20/2014		3.5	1.0	ug/L
Dichlorodifluoromethane	MW-35	9/15/2014		2.3	1.0	ug/L
Dichlorodifluoromethane	MW-35	3/06/2015		7.0	1.0	ug/L
Dichlorodifluoromethane	MW-35	3/01/2016		5.9	1.0	ug/L
Dichlorodifluoromethane	MW-35	9/09/2016		4.3	1.0	ug/L
Dichlorodifluoromethane	MW-35	3/22/2017		3.4	1.0	ug/L
Dichlorodifluoromethane	MW-35	8/24/2017		3.1	1.0	ug/L
Dichlorodifluoromethane	MW-35	2/26/2018		2.1	1.0	ug/L
Dichlorodifluoromethane	MW-35	8/29/2018		1.8	1.0	ug/L
Dichlorodifluoromethane	MW-35	3/18/2019		1.1	1.0	ug/L
Dichlorodifluoromethane	MW-35	9/10/2019		1.5	1.0	ug/L
Dichlorodifluoromethane	MW-35	3/25/2020		2.1	1.0	ug/L
Dichlorodifluoromethane	MW-35	3/02/2022		1.5	1.0	ug/L
Dichlorodifluoromethane	MW-35	8/29/2022		1.5	1.0	ug/L
Dichlorodifluoromethane	MW-35	3/05/2024		1.2	1.0	ug/L
Dichlorodifluoromethane	MW-35	9/30/2024		1.2	1.0	ug/L
Trichloroethylene	MW-36	3/23/2023		3.5	1.0	ug/L
Bis(2-ethylhexyl) phthalate	MW-3A	2/26/2018		193	30	ug/L
Bis(2-ethylhexyl) phthalate	MW-3A	3/23/2023		8	6	ug/L
Bis(2-ethylhexyl) phthalate	MW-8	3/28/2012		25	8	ug/L
Bis(2-ethylhexyl) phthalate	MW-8	9/25/2013		10	10	ug/L
Bis(2-ethylhexyl) phthalate	MW-8	3/06/2015		25	10	ug/L
Bis(2-ethylhexyl) phthalate	MW-8	8/24/2017		35	6	ug/L
Bis(2-ethylhexyl) phthalate	MW-8	2/26/2018		262	30	ug/L
Bis(2-ethylhexyl) phthalate	MW-8	8/29/2018		24	6	ug/L
2-butanone (mek)	SW-101	5/06/2008		284	5	ug/L
4-methyl-2-pentanone (mibk)	SW-101	5/06/2008		35.3	5.0	ug/L
Benzene	SW-101	5/06/2008		3.3	1.0	ug/L
Methylene chloride	SW-101	5/06/2008		6.3	5.0	ug/L
1,2-dichloroethane	SW-102	3/26/2008		1.1	1.0	ug/L
1,2-dichloroethane	SW-102	5/06/2008		1.0	1.0	ug/L
2-butanone (mek)	SW-102	3/26/2008		334	5	ug/L
2-butanone (mek)	SW-102	5/06/2008		489	25	ug/L
2-butanone (mek)	SW-102	5/06/2008		607	5	ug/L
2-butanone (mek)	SW-102	7/23/2008		1340	50	ug/L
2-butanone (mek)	SW-102	7/23/2008		1210	5	ug/L
4-methyl-2-pentanone (mibk)	SW-102	3/26/2008		233	5	ug/L
4-methyl-2-pentanone (mibk)	SW-102	5/06/2008		242	5	ug/L
4-methyl-2-pentanone (mibk)	SW-102	7/23/2008		1340	50	ug/L
4-methyl-2-pentanone (mibk)	SW-102	7/23/2008		1480	5	ug/L
4-methyl-2-pentanone (mibk)	SW-102	9/30/2008		510	25	ug/L
4-methyl-2-pentanone (mibk)	SW-102	9/30/2008		504	5	ug/L
Acetone	SW-102	3/26/2008		271	10	ug/L
Acetone	SW-102	7/23/2008		168	10	ug/L
Benzene	SW-102	3/26/2008		2.4	1.0	ug/L
Benzene	SW-102	5/06/2008		3.2	1.0	ug/L
Benzene	SW-102	7/23/2008		2.4	1.0	ug/L
Benzene	SW-102	9/30/2008		1.4	1.0	ug/L
Benzene	SW-102	12/02/2008		1.0	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 E

Assessment Statistics for the Verified VOC Detections

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-10	4	1.600	0.841	1.176	0.611	2.589	75.000	
Chlorobenzene	ug/L	MW-10	4	1.050	0.640	1.176	0.297	1.803	100.000	
Dichlorodifluoromethane	ug/L	MW-10	4	0.500	0.000	1.176	0.500	0.500	1000.000	
1,4-dichlorobenzene	ug/L	MW-34	4	2.950	4.321	1.176	0.000	8.033	75.000	
Chlorobenzene	ug/L	MW-34	4	0.825	0.650	1.176	0.060	1.590	100.000	
Dichlorodifluoromethane	ug/L	MW-34	4	0.500	0.000	1.176	0.500	0.500	1000.000	
1,4-dichlorobenzene	ug/L	MW-35	4	0.500	0.000	1.176	0.500	0.500	75.000	
Chlorobenzene	ug/L	MW-35	4	0.500	0.000	1.176	0.500	0.500	100.000	
Dichlorodifluoromethane	ug/L	MW-35	4	0.850	0.404	1.176	0.375	1.325	1000.000	

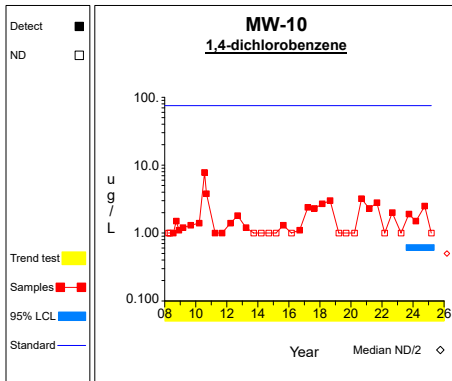
* - Insufficient Data

** - Significant Exceedance

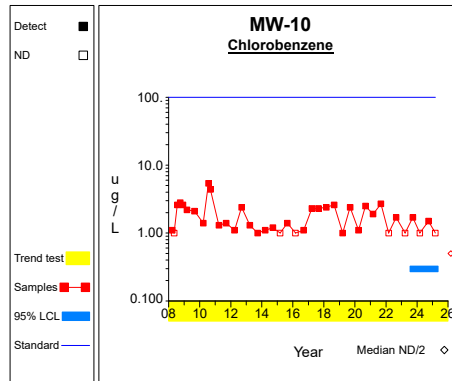
LCL = Lower Confidence Limit

UCL = Upper Confidence Limit

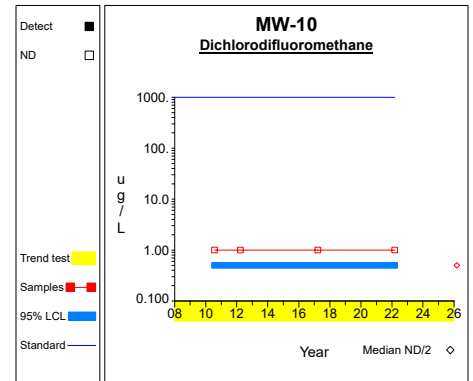
Confidence Limits (Assessment)



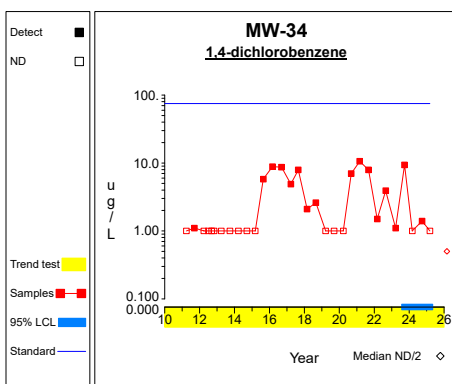
Graph 1



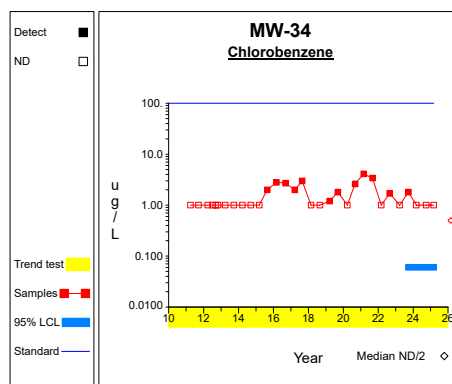
Graph 2



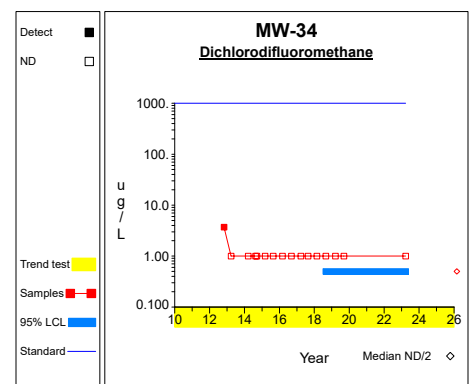
Graph 3



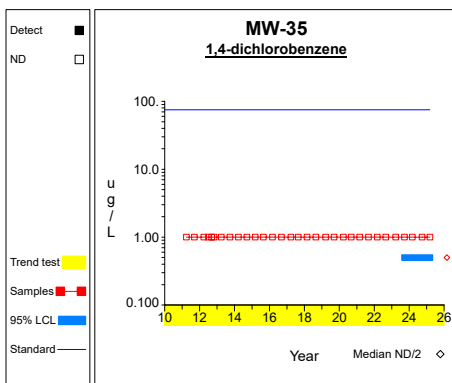
Graph 4



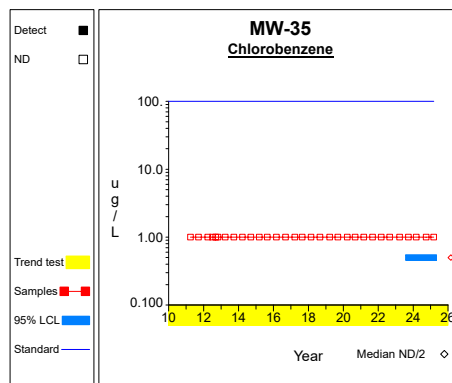
Graph 5



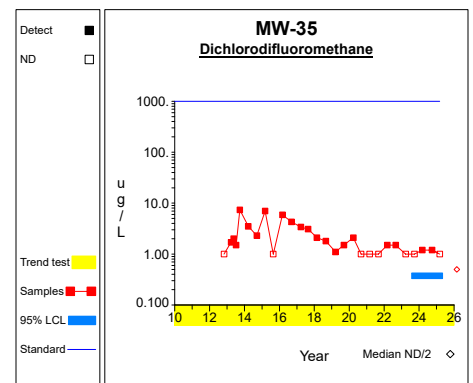
Graph 6



Graph 7



Graph 8



Graph 9

Appendix C.2 –Fall Statistical Evaluation

GROUND WATER STATISTICS
FOR THE
TAMA COUNTY SANITARY LANDFILL

Second Semi-Annual Monitoring Event in 2025

Prepared for:
Tama County Sanitary Landfill
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INTRODUCTION

This report summarizes the results of the statistical analysis used to evaluate the ground water quality data obtained during the second semi-annual monitoring event in 2025 at the Tama County Sanitary Landfill in Toledo, Tama County, Iowa. 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. Interwell statistics were used for comparisons of current data to background data at Tama County Sanitary Landfill. 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 Tama County Sanitary Landfill includes sample points MW-10, MW-20 (upgradient), MW-26 (upgradient), MW-27, MW-33, MW-34, MW-35, MW-36, MW-37 (upgradient), MW-3A, MW-8, SW-101, SW-102, and SW-3. Each of the groundwater monitoring wells is to be sampled at least semiannually and analyzed for the detection monitoring parameters listed in 113.10(5), which includes 15 inorganic constituents and 47 organic compounds, summarized in Table 1 below.

Table 1: Detection monitoring constituents listed in Appendix I of IAC 567, Chapter 113.

Organic Compounds:

Acetone	<i>trans</i> -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	<i>cis</i> -1,2-Dichloroethene	1,1,2,2-Tetrachloroethane
Bromoform	<i>trans</i> -1,2-Dichloroethene	Tetrachloroethene
Carbon disulfide	1,2-Dichloropropane	Toluene
Carbon tetrachloride	<i>cis</i> -1,3-Dichloropropene	1,1,1-Trichloroethane
Chlorobenzene	<i>trans</i> -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 event in 2025 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. Interwell statistics were applied to the Tama County Landfill data using the DUMPStat[®] statistical program. Ground water statistics are to be done on the inorganic constituents listed. The organic constituents are compared to maximum contaminant levels (MCLs) or practical quantitation limits (PQLs), in lieu of statistical comparisons to historical concentrations.

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

The background data used in this statistical analysis includes the ground water data collected from sample points MW-20, MW-26, MW-33, and MW-37 during the period from September 2014 through the current data. A summary of the background data from monitoring wells MW-20, MW-26, MW-33, and MW-37, used to determine the site prediction limits, 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 most current data from downgradient wells MW-10, MW-27, MW-34, MW-35, MW-36, MW-3A, and MW-8 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.

Summary of Prediction Limit Exceedances for the Second Semi-Annual Monitoring Event in 2025

Well	Trace Metal	Result, µg/L	Prediction Limit	Prediction Limit Type	Verified or Awaiting Verification
MW-10	Barium	544	282.8482	Normal	Verified
	Cobalt	6.3	2.6000	Nonparametric	Verified
	Nickel	16.0	4.0000	Nonparametric	Verified
MW-34	Cobalt	3.6	2.6000	Nonparametric	Awaiting Verification
	Nickel	10.6	4.0000	Nonparametric	Awaiting Verification
MW-35	Barium	454	282.8482	Normal	Verified
MW-36	Barium	302	282.8482	Normal	Verified
MW-3A	Barium	6.9	282.8482	Normal	Awaiting Verification
	Nickel	5.1	4.0000	Nonparametric	Awaiting Verification
MW-8	Barium	305	282.8482	Normal	Awaiting Verification
	Nickel	9.8	4.0000	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 for the metals. 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 1% and the test becomes sensitive to 4 standard deviation unit increases over background.

The past and current verified metals exceedances were evaluated against the ground water protection standards (GWPS) using confidence limits calculated in accordance with the Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities – Unified Guidance, USEPA, March 2009 (Attachment C). The analysis was conducted to evaluate whether verified concentrations are significantly above the water quality standard. 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 ground-water protection standards 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 cobalt at MW-10 (3.023 µg/L) exceeded the GWPS of 2.1 µg/L. The calculated 95% LCLs for the remainder of the metals tested are below 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 Tama County Landfill during the second semi-annual monitoring event in 2025 are summarized below.

VOCs detected during the second semi-annual monitoring period in 2025

Well	VOC Detected	Result, µg/L	Reporting Limit, µg/L	Verified/ Awaiting verification	Water Quality Standard
MW-34	1,4-Dichlorobenzene	2.4	1	Awaiting verification	75 ^a
	Chlorobenzene	1.7	1	Awaiting verification	100 ^a
MW-35	Dichlorodifluoromethane	1.8	1	Awaiting verification	1000 ^b

a - USEPA MCL

b- Iowa Statewide Standard for a protected groundwater source

1,4-Dichlorobenzene has been detected multiple times at MW-34 but was last detected at MW-34 in September 2024. Chlorobenzene has been detected multiple times at MW-34 but was last detected at MW-34 in September 2023. Dichlorodifluoromethane has been detected multiple times at MW-35 but was last detected at MW-35 in September 2024. Historical VOC detections in the ground water are summarized in Attachment D. The verified VOC detections were evaluated against the GWPS using confidence limits (Attachment E). The calculated LCLs are below GWPS.

CONCLUSIONS

This report summarizes the statistical analyses used to evaluate the ground water data obtained during the second semi-annual monitoring event in 2025 at Tama County Sanitary Landfill. There are verified site prediction limit exceedances for barium, cobalt, and nickel at MW-10, barium at MW-35, barium at MW-36, and nickel at MW-8. Organic compounds detected in the ground water at Tama County Landfill during the second semi-annual monitoring event in 2025 include 1,4-dichlorobenzene and chlorobenzene at MW-34 and dichlorodifluoromethane at MW-35. The VOCs detections did not statistically exceed GWPS.

Attachment A

Summary of the Data obtained during the Second Semi-Annual Monitoring Event in 2025

Table 1

Analytical Data Summary for 9/17/2025

Constituents	Units	MW-10	MW-20	MW-26	MW-27	MW-33	MW-34	MW-35	MW-36	MW-37	MW-3A	MW-8
1,1,1,2-tetrachloroethane	ug/L	<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
1,1,2,2-tetrachloroethane	ug/L	<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-dichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethylene	ug/L	<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
1,2-dibromo-3-chloropropane	ug/L	<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
1,2-dichlorobenzene	ug/L	<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
1,2-dichloropropane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-dichlorobenzene	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	2.4	<1.0	<1.0	<1.0	<1.0	<1.0
2-butanone (mek)	ug/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
2-hexanone (mbk)	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
4-methyl-2-pentanone (mibk)	ug/L	<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
Acrylonitrile	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Antimony, total	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Arsenic, total	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	3.4	<2.0	<2.0	<2.0	6.9	<2.0
Barium, total	ug/L	544.0	178.0	263.0	175.0	170.0	178.0	454.0	302.0	33.2	188.0	305.0
Benzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Beryllium, total	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Bromochloromethane	ug/L	<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
Bromoform	ug/L	<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
Cadmium, total	ug/L	.4	<2	<2	<2	<2	<2	<2	<2	<2	<2	.7
Carbon disulfide	ug/L	<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
Chlorobenzene	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	1.7	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroethane	ug/L	<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
Chloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chromium, total	ug/L	<1.0	4.9	1.0	1.1	<1.0	1.2	1.1	3.0	2.7	<1.0	2.0
Cis-1,2-dichloroethylene	ug/L	<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
Cobalt, total	ug/L	6.3	<5	<5	<5	<5	3.6	<5	<5	<5	2.0	1.3
Copper, total	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Dibromochloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromomethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dichlorodifluoromethane	ug/L							1.8				
Ethylbenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Lead, total	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methyl iodide	ug/L	<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
Nickel, total	ug/L	16.0	<5.0	<5.0	<5.0	<5.0	10.6	<5.0	<5.0	<5.0	5.1	9.8
Selenium, total	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	10.8	<2.0	<2.0
Silver, total	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Styrene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Thallium, total	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Toluene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,2-dichloroethylene	ug/L	<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
Trans-1,4-dichloro-2-butene	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Trichloroethylene	ug/L	<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
Vanadium, total	ug/L	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Vinyl acetate	ug/L	<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
Xylenes, total	ug/L	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Zinc, total	ug/L	8.8	<5.0	7.2	<5.0	<5.0	5.1	<5.0	<5.0	<5.0	<5.0	6.7

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

Attachment B

Summary Tables and Graphs for the Interwell Comparisons

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Antimony, total	ug/L	MW-20	09/15/2014	ND	2.0000		
Antimony, total	ug/L	MW-20	01/14/2015	ND	2.0000		
Antimony, total	ug/L	MW-20	03/06/2015	ND	2.0000		
Antimony, total	ug/L	MW-20	06/16/2015	ND	2.0000		
Antimony, total	ug/L	MW-20	08/24/2015	ND	2.0000		
Antimony, total	ug/L	MW-20	03/01/2016	ND	2.0000		
Antimony, total	ug/L	MW-20	09/09/2016	ND	2.0000		
Antimony, total	ug/L	MW-20	03/22/2017	ND	2.0000		
Antimony, total	ug/L	MW-20	08/24/2017	ND	2.0000		
Antimony, total	ug/L	MW-20	02/26/2018	ND	2.0000		
Antimony, total	ug/L	MW-20	08/29/2018	ND	2.0000		
Antimony, total	ug/L	MW-20	03/18/2019	ND	2.0000		
Antimony, total	ug/L	MW-20	09/10/2019	ND	2.0000		
Antimony, total	ug/L	MW-20	03/25/2020	ND	2.0000		
Antimony, total	ug/L	MW-20	09/04/2020	ND	2.0000		
Antimony, total	ug/L	MW-20	03/02/2021	ND	2.0000		
Antimony, total	ug/L	MW-20	09/02/2021	ND	2.0000		
Antimony, total	ug/L	MW-20	03/02/2022	ND	2.0000		
Antimony, total	ug/L	MW-20	08/29/2022	ND	2.0000		
Antimony, total	ug/L	MW-20	03/23/2023	ND	2.0000		
Antimony, total	ug/L	MW-20	09/25/2023	ND	2.0000		
Antimony, total	ug/L	MW-20	03/05/2024	ND	2.0000		
Antimony, total	ug/L	MW-20	09/30/2024	ND	2.0000		
Antimony, total	ug/L	MW-20	03/06/2025	ND	2.0000		
Antimony, total	ug/L	MW-20	09/17/2025	ND	1.0000	2.0000	**
Antimony, total	ug/L	MW-26	09/15/2014	ND	2.0000		
Antimony, total	ug/L	MW-26	01/14/2015	ND	2.0000		
Antimony, total	ug/L	MW-26	03/06/2015	ND	2.0000		
Antimony, total	ug/L	MW-26	06/16/2015	ND	2.0000		
Antimony, total	ug/L	MW-26	08/24/2015	ND	2.0000		
Antimony, total	ug/L	MW-26	03/01/2016	ND	2.0000		
Antimony, total	ug/L	MW-26	09/09/2016	ND	2.0000		
Antimony, total	ug/L	MW-26	03/22/2017	ND	2.0000		
Antimony, total	ug/L	MW-26	08/24/2017	ND	2.0000		
Antimony, total	ug/L	MW-26	02/26/2018	ND	5.0000	2.0000	**
Antimony, total	ug/L	MW-26	08/29/2018	ND	2.0000		
Antimony, total	ug/L	MW-26	03/18/2019	ND	2.0000		
Antimony, total	ug/L	MW-26	09/10/2019	ND	2.0000		
Antimony, total	ug/L	MW-26	03/25/2020	ND	2.0000		
Antimony, total	ug/L	MW-26	09/04/2020	ND	2.0000		
Antimony, total	ug/L	MW-26	03/02/2021	ND	2.0000		
Antimony, total	ug/L	MW-26	09/02/2021	ND	2.0000		
Antimony, total	ug/L	MW-26	03/02/2022	ND	2.0000		
Antimony, total	ug/L	MW-26	08/29/2022	ND	2.0000		
Antimony, total	ug/L	MW-26	03/23/2023	ND	2.0000		
Antimony, total	ug/L	MW-26	09/25/2023	ND	2.0000		
Antimony, total	ug/L	MW-26	03/05/2024	ND	2.0000		
Antimony, total	ug/L	MW-26	09/30/2024	ND	2.0000		
Antimony, total	ug/L	MW-26	03/06/2025	ND	2.0000		
Antimony, total	ug/L	MW-26	09/17/2025	ND	1.0000	2.0000	**
Antimony, total	ug/L	MW-33	09/15/2014	ND	2.0000		
Antimony, total	ug/L	MW-33	03/06/2015	ND	2.0000		
Antimony, total	ug/L	MW-33	08/24/2015	ND	2.0000		
Antimony, total	ug/L	MW-33	03/01/2016	ND	2.0000		
Antimony, total	ug/L	MW-33	09/09/2016	ND	2.0000		
Antimony, total	ug/L	MW-33	03/22/2017	ND	2.0000		
Antimony, total	ug/L	MW-33	08/24/2017	ND	2.0000		
Antimony, total	ug/L	MW-33	02/26/2018	ND	2.0000		
Antimony, total	ug/L	MW-33	08/29/2018	ND	2.0000		
Antimony, total	ug/L	MW-33	03/18/2019	ND	2.0000		
Antimony, total	ug/L	MW-33	09/10/2019	ND	2.0000		
Antimony, total	ug/L	MW-33	03/25/2020	ND	2.0000		
Antimony, total	ug/L	MW-33	09/04/2020	ND	2.0000		
Antimony, total	ug/L	MW-33	03/02/2021	ND	2.0000		
Antimony, total	ug/L	MW-33	09/02/2021	ND	2.0000		
Antimony, total	ug/L	MW-33	03/02/2022	ND	2.0000		
Antimony, total	ug/L	MW-33	08/29/2022	ND	2.0000		
Antimony, total	ug/L	MW-33	03/23/2023	ND	2.0000		
Antimony, total	ug/L	MW-33	09/25/2023	ND	2.0000		
Antimony, total	ug/L	MW-33	03/05/2024	ND	2.0000		
Antimony, total	ug/L	MW-33	09/30/2024	ND	2.0000		
Antimony, total	ug/L	MW-33	03/06/2025	ND	2.0000		
Antimony, total	ug/L	MW-33	09/17/2025	ND	1.0000	2.0000	**
Antimony, total	ug/L	MW-37	09/15/2014	ND	2.0000		

* - 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	
Antimony, total	ug/L	MW-37	01/14/2015	ND	2.0000		
Antimony, total	ug/L	MW-37	03/06/2015	ND	2.0000		
Antimony, total	ug/L	MW-37	06/16/2015	ND	2.0000		
Antimony, total	ug/L	MW-37	08/24/2015	ND	2.0000		
Antimony, total	ug/L	MW-37	03/01/2016	ND	2.0000		
Antimony, total	ug/L	MW-37	09/09/2016	ND	2.0000		
Antimony, total	ug/L	MW-37	03/22/2017	ND	2.0000		
Antimony, total	ug/L	MW-37	08/24/2017	ND	2.0000		
Antimony, total	ug/L	MW-37	02/26/2018	ND	2.0000		
Antimony, total	ug/L	MW-37	08/29/2018	ND	2.0000		
Antimony, total	ug/L	MW-37	03/18/2019	ND	2.0000		
Antimony, total	ug/L	MW-37	09/10/2019	ND	2.0000		
Antimony, total	ug/L	MW-37	03/25/2020	ND	2.0000		
Antimony, total	ug/L	MW-37	09/04/2020	ND	2.0000		
Antimony, total	ug/L	MW-37	03/02/2021	ND	2.0000		
Antimony, total	ug/L	MW-37	09/02/2021	ND	2.0000		
Antimony, total	ug/L	MW-37	03/02/2022	ND	2.0000		
Antimony, total	ug/L	MW-37	08/29/2022	ND	2.0000		
Antimony, total	ug/L	MW-37	03/23/2023	ND	2.0000		
Antimony, total	ug/L	MW-37	09/25/2023	ND	2.0000		
Antimony, total	ug/L	MW-37	03/05/2024	ND	2.0000		
Antimony, total	ug/L	MW-37	09/30/2024	ND	2.0000		
Antimony, total	ug/L	MW-37	03/06/2025	ND	2.0000		
Antimony, total	ug/L	MW-37	09/17/2025	ND	1.0000	2.0000	**
Arsenic, total	ug/L	MW-20	09/15/2014	ND	4.0000		
Arsenic, total	ug/L	MW-20	01/14/2015	ND	4.0000		
Arsenic, total	ug/L	MW-20	03/06/2015	ND	4.0000		
Arsenic, total	ug/L	MW-20	06/16/2015	ND	4.0000		
Arsenic, total	ug/L	MW-20	08/24/2015	ND	4.0000		
Arsenic, total	ug/L	MW-20	03/01/2016	ND	4.0000		
Arsenic, total	ug/L	MW-20	09/09/2016	ND	4.0000		
Arsenic, total	ug/L	MW-20	03/22/2017	ND	4.0000		
Arsenic, total	ug/L	MW-20	08/24/2017	ND	4.0000		
Arsenic, total	ug/L	MW-20	02/26/2018	ND	4.0000		
Arsenic, total	ug/L	MW-20	08/29/2018	ND	4.0000		
Arsenic, total	ug/L	MW-20	03/18/2019	ND	4.0000		
Arsenic, total	ug/L	MW-20	09/10/2019	ND	4.0000		
Arsenic, total	ug/L	MW-20	03/25/2020	ND	4.0000		
Arsenic, total	ug/L	MW-20	09/04/2020	ND	4.0000		
Arsenic, total	ug/L	MW-20	03/02/2021	ND	4.0000		
Arsenic, total	ug/L	MW-20	09/02/2021	ND	4.0000		
Arsenic, total	ug/L	MW-20	03/02/2022	ND	4.0000		
Arsenic, total	ug/L	MW-20	08/29/2022	ND	4.0000		
Arsenic, total	ug/L	MW-20	03/23/2023	ND	4.0000		
Arsenic, total	ug/L	MW-20	09/25/2023	ND	4.0000		
Arsenic, total	ug/L	MW-20	03/05/2024	ND	4.0000		
Arsenic, total	ug/L	MW-20	09/30/2024	ND	4.0000		
Arsenic, total	ug/L	MW-20	03/06/2025	ND	4.0000		
Arsenic, total	ug/L	MW-20	09/17/2025	ND	2.0000	4.0000	**
Arsenic, total	ug/L	MW-26	09/15/2014	ND	4.0000		
Arsenic, total	ug/L	MW-26	01/14/2015	ND	4.0000		
Arsenic, total	ug/L	MW-26	03/06/2015	ND	4.0000		
Arsenic, total	ug/L	MW-26	06/16/2015	ND	4.0000		
Arsenic, total	ug/L	MW-26	08/24/2015	ND	4.0000		
Arsenic, total	ug/L	MW-26	03/01/2016	ND	4.0000		
Arsenic, total	ug/L	MW-26	09/09/2016	ND	4.0000		
Arsenic, total	ug/L	MW-26	03/22/2017	ND	4.0000		
Arsenic, total	ug/L	MW-26	08/24/2017	ND	4.0000		
Arsenic, total	ug/L	MW-26	02/26/2018	ND	10.0000	4.0000	**
Arsenic, total	ug/L	MW-26	08/29/2018	ND	4.0000		
Arsenic, total	ug/L	MW-26	03/18/2019	ND	4.0000		
Arsenic, total	ug/L	MW-26	09/10/2019	ND	4.0000		
Arsenic, total	ug/L	MW-26	03/25/2020	ND	4.0000		
Arsenic, total	ug/L	MW-26	09/04/2020	ND	4.0000		
Arsenic, total	ug/L	MW-26	03/02/2021	ND	4.0000		
Arsenic, total	ug/L	MW-26	09/02/2021	ND	4.0000		
Arsenic, total	ug/L	MW-26	03/02/2022	ND	4.0000		
Arsenic, total	ug/L	MW-26	08/29/2022	ND	4.0000		
Arsenic, total	ug/L	MW-26	03/23/2023	ND	4.0000		
Arsenic, total	ug/L	MW-26	09/25/2023	ND	4.0000		
Arsenic, total	ug/L	MW-26	03/05/2024	ND	4.0000		
Arsenic, total	ug/L	MW-26	09/30/2024	ND	4.0000		
Arsenic, total	ug/L	MW-26	03/06/2025	ND	4.0000		
Arsenic, total	ug/L	MW-26	09/17/2025	ND	2.0000	4.0000	**

* - 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	
Arsenic, total	ug/L	MW-33	09/15/2014	ND	4.0000		
Arsenic, total	ug/L	MW-33	03/06/2015	ND	4.0000		
Arsenic, total	ug/L	MW-33	08/24/2015	ND	4.0000		
Arsenic, total	ug/L	MW-33	03/01/2016	ND	4.0000		
Arsenic, total	ug/L	MW-33	09/09/2016	ND	4.0000		
Arsenic, total	ug/L	MW-33	03/22/2017	ND	4.0000		
Arsenic, total	ug/L	MW-33	08/24/2017	ND	4.0000		
Arsenic, total	ug/L	MW-33	02/26/2018	ND	4.0000		
Arsenic, total	ug/L	MW-33	08/29/2018	ND	4.0000		
Arsenic, total	ug/L	MW-33	03/18/2019	ND	4.0000		
Arsenic, total	ug/L	MW-33	09/10/2019	ND	4.0000		
Arsenic, total	ug/L	MW-33	03/25/2020	ND	4.0000		
Arsenic, total	ug/L	MW-33	09/04/2020	ND	4.0000		
Arsenic, total	ug/L	MW-33	03/02/2021	ND	4.0000		
Arsenic, total	ug/L	MW-33	09/02/2021	ND	4.0000		
Arsenic, total	ug/L	MW-33	03/02/2022	ND	4.0000		
Arsenic, total	ug/L	MW-33	08/29/2022	ND	4.0000		
Arsenic, total	ug/L	MW-33	03/23/2023	ND	4.0000		
Arsenic, total	ug/L	MW-33	09/25/2023	ND	4.0000		
Arsenic, total	ug/L	MW-33	03/05/2024	ND	4.0000		
Arsenic, total	ug/L	MW-33	09/30/2024	ND	4.0000		
Arsenic, total	ug/L	MW-33	03/06/2025	ND	4.0000		
Arsenic, total	ug/L	MW-33	09/17/2025	ND	2.0000	4.0000	**
Arsenic, total	ug/L	MW-37	09/15/2014	ND	4.0000		
Arsenic, total	ug/L	MW-37	01/14/2015	ND	4.0000		
Arsenic, total	ug/L	MW-37	03/06/2015	ND	4.0000		
Arsenic, total	ug/L	MW-37	06/16/2015	ND	4.0000		
Arsenic, total	ug/L	MW-37	08/24/2015	ND	4.0000		
Arsenic, total	ug/L	MW-37	03/01/2016	ND	4.0000		
Arsenic, total	ug/L	MW-37	09/09/2016	ND	4.0000		
Arsenic, total	ug/L	MW-37	03/22/2017	ND	4.0000		
Arsenic, total	ug/L	MW-37	08/24/2017	ND	4.0000		
Arsenic, total	ug/L	MW-37	02/26/2018	ND	4.0000		
Arsenic, total	ug/L	MW-37	08/29/2018	ND	4.0000		
Arsenic, total	ug/L	MW-37	03/18/2019	ND	4.0000		
Arsenic, total	ug/L	MW-37	09/10/2019	ND	4.0000		
Arsenic, total	ug/L	MW-37	03/25/2020	ND	4.0000		
Arsenic, total	ug/L	MW-37	09/04/2020	ND	4.0000		
Arsenic, total	ug/L	MW-37	03/02/2021	ND	4.0000		
Arsenic, total	ug/L	MW-37	09/02/2021	ND	4.0000		
Arsenic, total	ug/L	MW-37	03/02/2022	ND	4.0000		
Arsenic, total	ug/L	MW-37	08/29/2022	ND	4.0000		
Arsenic, total	ug/L	MW-37	03/23/2023	ND	4.0000		
Arsenic, total	ug/L	MW-37	09/25/2023	ND	4.0000		
Arsenic, total	ug/L	MW-37	03/05/2024	ND	4.0000		
Arsenic, total	ug/L	MW-37	09/30/2024	ND	4.0000		
Arsenic, total	ug/L	MW-37	03/06/2025	ND	4.0000		
Arsenic, total	ug/L	MW-37	09/17/2025	ND	2.0000	4.0000	**
Barium, total	ug/L	MW-20	09/15/2014		177.0000		
Barium, total	ug/L	MW-20	01/14/2015		208.0000		
Barium, total	ug/L	MW-20	03/06/2015		219.0000		
Barium, total	ug/L	MW-20	06/16/2015		221.0000		
Barium, total	ug/L	MW-20	08/24/2015		171.0000		
Barium, total	ug/L	MW-20	03/01/2016		162.0000		
Barium, total	ug/L	MW-20	09/09/2016		209.0000		
Barium, total	ug/L	MW-20	03/22/2017		222.0000		
Barium, total	ug/L	MW-20	08/24/2017		239.0000		
Barium, total	ug/L	MW-20	02/26/2018		239.0000		
Barium, total	ug/L	MW-20	08/29/2018		201.0000		
Barium, total	ug/L	MW-20	03/18/2019		193.0000		
Barium, total	ug/L	MW-20	09/10/2019		142.0000		
Barium, total	ug/L	MW-20	03/25/2020		184.0000		
Barium, total	ug/L	MW-20	09/04/2020		167.0000		
Barium, total	ug/L	MW-20	03/02/2021		217.0000		
Barium, total	ug/L	MW-20	09/02/2021		210.0000		
Barium, total	ug/L	MW-20	03/02/2022		236.0000		
Barium, total	ug/L	MW-20	08/29/2022		152.0000		
Barium, total	ug/L	MW-20	03/23/2023		231.0000		
Barium, total	ug/L	MW-20	09/25/2023		185.0000		
Barium, total	ug/L	MW-20	03/05/2024		201.0000		
Barium, total	ug/L	MW-20	09/30/2024		194.0000		
Barium, total	ug/L	MW-20	03/06/2025		216.0000		
Barium, total	ug/L	MW-20	09/17/2025		178.0000		
Barium, total	ug/L	MW-26	09/15/2014		141.0000		

* - 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, total	ug/L	MW-26	01/14/2015		118.0000		
Barium, total	ug/L	MW-26	03/06/2015		106.0000		
Barium, total	ug/L	MW-26	06/16/2015		121.0000		
Barium, total	ug/L	MW-26	08/24/2015		156.0000		
Barium, total	ug/L	MW-26	03/01/2016		120.0000		
Barium, total	ug/L	MW-26	09/09/2016		116.0000		
Barium, total	ug/L	MW-26	03/22/2017		123.0000		
Barium, total	ug/L	MW-26	08/24/2017		128.0000		
Barium, total	ug/L	MW-26	02/26/2018		119.0000		
Barium, total	ug/L	MW-26	08/29/2018		117.0000		
Barium, total	ug/L	MW-26	03/18/2019		147.0000		
Barium, total	ug/L	MW-26	09/10/2019		178.0000		
Barium, total	ug/L	MW-26	03/25/2020		199.0000		
Barium, total	ug/L	MW-26	09/04/2020		189.0000		
Barium, total	ug/L	MW-26	03/02/2021		157.0000		
Barium, total	ug/L	MW-26	09/02/2021		179.0000		
Barium, total	ug/L	MW-26	03/02/2022		126.0000		
Barium, total	ug/L	MW-26	08/29/2022		142.0000		
Barium, total	ug/L	MW-26	03/23/2023		112.0000		
Barium, total	ug/L	MW-26	09/25/2023		116.0000		
Barium, total	ug/L	MW-26	03/05/2024		118.0000		
Barium, total	ug/L	MW-26	09/30/2024		153.0000		
Barium, total	ug/L	MW-26	03/06/2025		116.0000		
Barium, total	ug/L	MW-26	09/17/2025		263.0000		
Barium, total	ug/L	MW-33	09/15/2014		122.0000		
Barium, total	ug/L	MW-33	03/06/2015		112.0000		
Barium, total	ug/L	MW-33	08/24/2015		131.0000		
Barium, total	ug/L	MW-33	03/01/2016		98.9000		
Barium, total	ug/L	MW-33	09/09/2016		158.0000		
Barium, total	ug/L	MW-33	03/22/2017		274.0000		
Barium, total	ug/L	MW-33	06/07/2017		129.0000		
Barium, total	ug/L	MW-33	08/24/2017		163.0000		
Barium, total	ug/L	MW-33	02/26/2018		171.0000		
Barium, total	ug/L	MW-33	08/29/2018		162.0000		
Barium, total	ug/L	MW-33	03/18/2019		282.0000		
Barium, total	ug/L	MW-33	09/10/2019		214.0000		
Barium, total	ug/L	MW-33	03/25/2020		144.0000		
Barium, total	ug/L	MW-33	09/04/2020		209.0000		
Barium, total	ug/L	MW-33	03/02/2021		115.0000		
Barium, total	ug/L	MW-33	09/02/2021		194.0000		
Barium, total	ug/L	MW-33	03/02/2022		189.0000		
Barium, total	ug/L	MW-33	08/29/2022		174.0000		
Barium, total	ug/L	MW-33	03/23/2023		82.7000		
Barium, total	ug/L	MW-33	09/25/2023		147.0000		
Barium, total	ug/L	MW-33	03/05/2024		77.3000		
Barium, total	ug/L	MW-33	09/30/2024		167.0000		
Barium, total	ug/L	MW-33	03/06/2025		169.0000		
Barium, total	ug/L	MW-33	09/17/2025		170.0000		
Barium, total	ug/L	MW-37	09/15/2014		95.3000		
Barium, total	ug/L	MW-37	01/14/2015		89.2000		
Barium, total	ug/L	MW-37	03/06/2015		82.1000		
Barium, total	ug/L	MW-37	06/16/2015		85.0000		
Barium, total	ug/L	MW-37	08/24/2015		69.1000		
Barium, total	ug/L	MW-37	03/01/2016		67.7000		
Barium, total	ug/L	MW-37	09/09/2016		77.6000		
Barium, total	ug/L	MW-37	03/22/2017		77.4000		
Barium, total	ug/L	MW-37	08/24/2017		82.3000		
Barium, total	ug/L	MW-37	02/26/2018		78.9000		
Barium, total	ug/L	MW-37	08/29/2018		59.2000		
Barium, total	ug/L	MW-37	03/18/2019		61.3000		
Barium, total	ug/L	MW-37	09/10/2019		60.1000		
Barium, total	ug/L	MW-37	03/25/2020		69.1000		
Barium, total	ug/L	MW-37	09/04/2020		58.6000		
Barium, total	ug/L	MW-37	03/02/2021		64.5000		
Barium, total	ug/L	MW-37	09/02/2021		61.8000		
Barium, total	ug/L	MW-37	03/02/2022		71.0000		
Barium, total	ug/L	MW-37	08/29/2022		46.2000		
Barium, total	ug/L	MW-37	03/23/2023		60.7000		
Barium, total	ug/L	MW-37	09/25/2023		66.9000		
Barium, total	ug/L	MW-37	03/05/2024		61.8000		
Barium, total	ug/L	MW-37	09/30/2024		43.7000		
Barium, total	ug/L	MW-37	03/06/2025		62.4000		
Barium, total	ug/L	MW-37	09/17/2025		33.2000		
Beryllium, total	ug/L	MW-20	09/15/2014	ND	4.0000		

* - 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	
Beryllium, total	ug/L	MW-20	01/14/2015	ND	4.0000		
Beryllium, total	ug/L	MW-20	03/06/2015	ND	4.0000		
Beryllium, total	ug/L	MW-20	06/16/2015	ND	4.0000		
Beryllium, total	ug/L	MW-20	08/24/2015	ND	4.0000		
Beryllium, total	ug/L	MW-20	03/01/2016	ND	4.0000		
Beryllium, total	ug/L	MW-20	09/09/2016	ND	4.0000		
Beryllium, total	ug/L	MW-20	03/22/2017	ND	4.0000		
Beryllium, total	ug/L	MW-20	08/24/2017	ND	4.0000		
Beryllium, total	ug/L	MW-20	02/26/2018	ND	4.0000		
Beryllium, total	ug/L	MW-20	08/29/2018	ND	4.0000		
Beryllium, total	ug/L	MW-20	03/18/2019	ND	4.0000		
Beryllium, total	ug/L	MW-20	09/10/2019	ND	4.0000		
Beryllium, total	ug/L	MW-20	03/25/2020	ND	4.0000		
Beryllium, total	ug/L	MW-20	09/04/2020	ND	4.0000		
Beryllium, total	ug/L	MW-20	03/02/2021	ND	4.0000		
Beryllium, total	ug/L	MW-20	09/02/2021	ND	4.0000		
Beryllium, total	ug/L	MW-20	03/02/2022	ND	4.0000		
Beryllium, total	ug/L	MW-20	08/29/2022	ND	4.0000		
Beryllium, total	ug/L	MW-20	03/23/2023	ND	4.0000		
Beryllium, total	ug/L	MW-20	09/25/2023	ND	4.0000		
Beryllium, total	ug/L	MW-20	03/05/2024	ND	4.0000		
Beryllium, total	ug/L	MW-20	09/30/2024	ND	4.0000		
Beryllium, total	ug/L	MW-20	03/06/2025	ND	4.0000		
Beryllium, total	ug/L	MW-20	09/17/2025	ND	0.5000	4.0000	**
Beryllium, total	ug/L	MW-26	09/15/2014	ND	4.0000		
Beryllium, total	ug/L	MW-26	01/14/2015	ND	4.0000		
Beryllium, total	ug/L	MW-26	03/06/2015	ND	4.0000		
Beryllium, total	ug/L	MW-26	06/16/2015	ND	4.0000		
Beryllium, total	ug/L	MW-26	08/24/2015	ND	4.0000		
Beryllium, total	ug/L	MW-26	03/01/2016	ND	4.0000		
Beryllium, total	ug/L	MW-26	09/09/2016	ND	4.0000		
Beryllium, total	ug/L	MW-26	03/22/2017	ND	4.0000		
Beryllium, total	ug/L	MW-26	08/24/2017	ND	4.0000		
Beryllium, total	ug/L	MW-26	02/26/2018	ND	10.0000	4.0000	**
Beryllium, total	ug/L	MW-26	08/29/2018	ND	4.0000		
Beryllium, total	ug/L	MW-26	03/18/2019	ND	4.0000		
Beryllium, total	ug/L	MW-26	09/10/2019	ND	4.0000		
Beryllium, total	ug/L	MW-26	03/25/2020	ND	4.0000		
Beryllium, total	ug/L	MW-26	09/04/2020	ND	4.0000		
Beryllium, total	ug/L	MW-26	03/02/2021	ND	4.0000		
Beryllium, total	ug/L	MW-26	09/02/2021	ND	4.0000		
Beryllium, total	ug/L	MW-26	03/02/2022	ND	4.0000		
Beryllium, total	ug/L	MW-26	08/29/2022	ND	4.0000		
Beryllium, total	ug/L	MW-26	03/23/2023	ND	4.0000		
Beryllium, total	ug/L	MW-26	09/25/2023	ND	4.0000		
Beryllium, total	ug/L	MW-26	03/05/2024	ND	4.0000		
Beryllium, total	ug/L	MW-26	09/30/2024	ND	4.0000		
Beryllium, total	ug/L	MW-26	03/06/2025	ND	4.0000		
Beryllium, total	ug/L	MW-26	09/17/2025	ND	0.5000	4.0000	**
Beryllium, total	ug/L	MW-33	09/15/2014	ND	4.0000		
Beryllium, total	ug/L	MW-33	03/06/2015	ND	4.0000		
Beryllium, total	ug/L	MW-33	08/24/2015	ND	4.0000		
Beryllium, total	ug/L	MW-33	03/01/2016	ND	4.0000		
Beryllium, total	ug/L	MW-33	09/09/2016	ND	4.0000		
Beryllium, total	ug/L	MW-33	03/22/2017	ND	4.0000		
Beryllium, total	ug/L	MW-33	08/24/2017	ND	4.0000		
Beryllium, total	ug/L	MW-33	02/26/2018	ND	4.0000		
Beryllium, total	ug/L	MW-33	08/29/2018	ND	4.0000		
Beryllium, total	ug/L	MW-33	03/18/2019	ND	4.0000		
Beryllium, total	ug/L	MW-33	09/10/2019	ND	4.0000		
Beryllium, total	ug/L	MW-33	03/25/2020	ND	4.0000		
Beryllium, total	ug/L	MW-33	09/04/2020	ND	4.0000		
Beryllium, total	ug/L	MW-33	03/02/2021	ND	4.0000		
Beryllium, total	ug/L	MW-33	09/02/2021	ND	4.0000		
Beryllium, total	ug/L	MW-33	03/02/2022	ND	4.0000		
Beryllium, total	ug/L	MW-33	08/29/2022	ND	4.0000		
Beryllium, total	ug/L	MW-33	03/23/2023	ND	4.0000		
Beryllium, total	ug/L	MW-33	09/25/2023	ND	4.0000		
Beryllium, total	ug/L	MW-33	03/05/2024	ND	4.0000		
Beryllium, total	ug/L	MW-33	09/30/2024	ND	4.0000		
Beryllium, total	ug/L	MW-33	03/06/2025	ND	4.0000		
Beryllium, total	ug/L	MW-33	09/17/2025	ND	0.5000	4.0000	**
Beryllium, total	ug/L	MW-37	09/15/2014	ND	4.0000		
Beryllium, total	ug/L	MW-37	01/14/2015	ND	4.0000		

* - 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	
Beryllium, total	ug/L	MW-37	03/06/2015	ND	4.0000		
Beryllium, total	ug/L	MW-37	06/16/2015	ND	4.0000		
Beryllium, total	ug/L	MW-37	08/24/2015	ND	4.0000		
Beryllium, total	ug/L	MW-37	03/01/2016	ND	4.0000		
Beryllium, total	ug/L	MW-37	09/09/2016	ND	4.0000		
Beryllium, total	ug/L	MW-37	03/22/2017	ND	4.0000		
Beryllium, total	ug/L	MW-37	08/24/2017	ND	4.0000		
Beryllium, total	ug/L	MW-37	02/26/2018	ND	4.0000		
Beryllium, total	ug/L	MW-37	08/29/2018	ND	4.0000		
Beryllium, total	ug/L	MW-37	03/18/2019	ND	4.0000		
Beryllium, total	ug/L	MW-37	09/10/2019	ND	4.0000		
Beryllium, total	ug/L	MW-37	03/25/2020	ND	4.0000		
Beryllium, total	ug/L	MW-37	09/04/2020	ND	4.0000		
Beryllium, total	ug/L	MW-37	03/02/2021	ND	4.0000		
Beryllium, total	ug/L	MW-37	09/02/2021	ND	4.0000		
Beryllium, total	ug/L	MW-37	03/02/2022	ND	4.0000		
Beryllium, total	ug/L	MW-37	08/29/2022	ND	4.0000		
Beryllium, total	ug/L	MW-37	03/23/2023	ND	4.0000		
Beryllium, total	ug/L	MW-37	09/25/2023	ND	4.0000		
Beryllium, total	ug/L	MW-37	03/05/2024	ND	4.0000		
Beryllium, total	ug/L	MW-37	09/30/2024	ND	4.0000		
Beryllium, total	ug/L	MW-37	03/06/2025	ND	4.0000		
Beryllium, total	ug/L	MW-37	09/17/2025	ND	0.5000	4.0000	**
Cadmium, total	ug/L	MW-20	09/15/2014	ND	0.8000		
Cadmium, total	ug/L	MW-20	01/14/2015	ND	0.8000		
Cadmium, total	ug/L	MW-20	03/06/2015	ND	0.8000		
Cadmium, total	ug/L	MW-20	06/16/2015	ND	0.8000		
Cadmium, total	ug/L	MW-20	08/24/2015	ND	0.8000		
Cadmium, total	ug/L	MW-20	03/01/2016	ND	0.8000		
Cadmium, total	ug/L	MW-20	09/09/2016	ND	0.8000		
Cadmium, total	ug/L	MW-20	03/22/2017	ND	0.8000		
Cadmium, total	ug/L	MW-20	08/24/2017	ND	0.8000		
Cadmium, total	ug/L	MW-20	02/26/2018	ND	0.8000		
Cadmium, total	ug/L	MW-20	08/29/2018	ND	0.8000		
Cadmium, total	ug/L	MW-20	03/18/2019	ND	0.8000		
Cadmium, total	ug/L	MW-20	09/10/2019	ND	0.8000		
Cadmium, total	ug/L	MW-20	03/25/2020	ND	0.8000		
Cadmium, total	ug/L	MW-20	09/04/2020	ND	0.8000		
Cadmium, total	ug/L	MW-20	03/02/2021		0.8000		
Cadmium, total	ug/L	MW-20	09/02/2021		0.8000		
Cadmium, total	ug/L	MW-20	03/02/2022	ND	0.8000		
Cadmium, total	ug/L	MW-20	08/29/2022	ND	0.8000		
Cadmium, total	ug/L	MW-20	03/23/2023	ND	0.8000		
Cadmium, total	ug/L	MW-20	09/25/2023	ND	0.8000		
Cadmium, total	ug/L	MW-20	03/05/2024	ND	0.8000		
Cadmium, total	ug/L	MW-20	09/30/2024	ND	0.8000		
Cadmium, total	ug/L	MW-20	03/06/2025	ND	0.8000		
Cadmium, total	ug/L	MW-20	09/17/2025	ND	0.2000	0.8000	**
Cadmium, total	ug/L	MW-26	09/15/2014	ND	0.8000		
Cadmium, total	ug/L	MW-26	01/14/2015	ND	0.8000		
Cadmium, total	ug/L	MW-26	03/06/2015	ND	0.8000		
Cadmium, total	ug/L	MW-26	06/16/2015	ND	0.8000		
Cadmium, total	ug/L	MW-26	08/24/2015	ND	0.8000		
Cadmium, total	ug/L	MW-26	03/01/2016	ND	0.8000		
Cadmium, total	ug/L	MW-26	09/09/2016	ND	0.8000		
Cadmium, total	ug/L	MW-26	03/22/2017	ND	0.8000		
Cadmium, total	ug/L	MW-26	08/24/2017	ND	0.8000		
Cadmium, total	ug/L	MW-26	02/26/2018	ND	2.0000	0.8000	**
Cadmium, total	ug/L	MW-26	08/29/2018	ND	0.8000		
Cadmium, total	ug/L	MW-26	03/18/2019	ND	0.8000		
Cadmium, total	ug/L	MW-26	09/10/2019	ND	0.8000		
Cadmium, total	ug/L	MW-26	03/25/2020	ND	0.8000		
Cadmium, total	ug/L	MW-26	09/04/2020	ND	0.8000		
Cadmium, total	ug/L	MW-26	03/02/2021	ND	0.8000		
Cadmium, total	ug/L	MW-26	09/02/2021	ND	0.8000		
Cadmium, total	ug/L	MW-26	03/02/2022	ND	0.8000		
Cadmium, total	ug/L	MW-26	08/29/2022	ND	0.8000		
Cadmium, total	ug/L	MW-26	03/23/2023	ND	0.8000		
Cadmium, total	ug/L	MW-26	09/25/2023	ND	0.8000		
Cadmium, total	ug/L	MW-26	03/05/2024	ND	0.8000		
Cadmium, total	ug/L	MW-26	09/30/2024	ND	0.8000		
Cadmium, total	ug/L	MW-26	03/06/2025	ND	0.8000		
Cadmium, total	ug/L	MW-26	09/17/2025	ND	0.2000	0.8000	**
Cadmium, total	ug/L	MW-33	09/15/2014	ND	0.8000		

* - 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, total	ug/L	MW-33	03/06/2015	ND	0.8000		
Cadmium, total	ug/L	MW-33	08/24/2015	ND	0.8000		
Cadmium, total	ug/L	MW-33	03/01/2016	ND	0.8000		
Cadmium, total	ug/L	MW-33	09/09/2016	ND	0.8000		
Cadmium, total	ug/L	MW-33	03/22/2017	ND	0.8000		
Cadmium, total	ug/L	MW-33	08/24/2017	ND	0.8000		
Cadmium, total	ug/L	MW-33	02/26/2018	ND	0.8000		
Cadmium, total	ug/L	MW-33	08/29/2018	ND	0.8000		
Cadmium, total	ug/L	MW-33	03/18/2019	ND	0.8000		
Cadmium, total	ug/L	MW-33	09/10/2019	ND	0.8000		
Cadmium, total	ug/L	MW-33	03/25/2020	ND	0.8000		
Cadmium, total	ug/L	MW-33	09/04/2020	ND	0.8000		
Cadmium, total	ug/L	MW-33	03/02/2021	ND	0.8000		
Cadmium, total	ug/L	MW-33	09/02/2021	ND	0.8000		
Cadmium, total	ug/L	MW-33	03/02/2022	ND	0.8000		
Cadmium, total	ug/L	MW-33	08/29/2022	ND	0.8000		
Cadmium, total	ug/L	MW-33	03/23/2023	ND	0.8000		
Cadmium, total	ug/L	MW-33	09/25/2023	ND	0.8000		
Cadmium, total	ug/L	MW-33	03/05/2024	ND	0.8000		
Cadmium, total	ug/L	MW-33	09/30/2024	ND	0.8000		
Cadmium, total	ug/L	MW-33	03/06/2025	ND	0.8000		
Cadmium, total	ug/L	MW-33	09/17/2025	ND	0.2000	0.8000	**
Cadmium, total	ug/L	MW-37	09/15/2014	ND	0.8000		
Cadmium, total	ug/L	MW-37	01/14/2015	ND	0.8000		
Cadmium, total	ug/L	MW-37	03/06/2015	ND	0.8000		
Cadmium, total	ug/L	MW-37	06/16/2015	ND	0.8000		
Cadmium, total	ug/L	MW-37	08/24/2015	ND	0.8000		
Cadmium, total	ug/L	MW-37	03/01/2016	ND	0.8000		
Cadmium, total	ug/L	MW-37	09/09/2016	ND	0.8000		
Cadmium, total	ug/L	MW-37	03/22/2017	ND	0.8000		
Cadmium, total	ug/L	MW-37	08/24/2017	ND	0.8000		
Cadmium, total	ug/L	MW-37	02/26/2018	ND	0.8000		
Cadmium, total	ug/L	MW-37	08/29/2018	ND	0.8000		
Cadmium, total	ug/L	MW-37	03/18/2019	ND	0.8000		
Cadmium, total	ug/L	MW-37	09/10/2019	ND	0.8000		
Cadmium, total	ug/L	MW-37	03/25/2020	ND	0.8000		
Cadmium, total	ug/L	MW-37	09/04/2020	ND	0.8000		
Cadmium, total	ug/L	MW-37	03/02/2021	ND	0.8000		
Cadmium, total	ug/L	MW-37	09/02/2021	ND	0.8000		
Cadmium, total	ug/L	MW-37	03/02/2022	ND	0.8000		
Cadmium, total	ug/L	MW-37	08/29/2022	ND	0.8000		
Cadmium, total	ug/L	MW-37	03/23/2023	ND	0.8000		
Cadmium, total	ug/L	MW-37	09/25/2023	ND	0.8000		
Cadmium, total	ug/L	MW-37	03/05/2024	ND	0.8000		
Cadmium, total	ug/L	MW-37	09/30/2024	ND	0.8000		
Cadmium, total	ug/L	MW-37	03/06/2025	ND	0.8000		
Cadmium, total	ug/L	MW-37	09/17/2025	ND	0.2000	0.8000	**
Chromium, total	ug/L	MW-20	09/15/2014	ND	8.0000		
Chromium, total	ug/L	MW-20	01/14/2015	ND	8.0000		
Chromium, total	ug/L	MW-20	03/06/2015	ND	8.0000		
Chromium, total	ug/L	MW-20	06/16/2015	ND	8.0000		
Chromium, total	ug/L	MW-20	08/24/2015	ND	8.0000		
Chromium, total	ug/L	MW-20	03/01/2016	ND	8.0000		
Chromium, total	ug/L	MW-20	09/09/2016	ND	8.0000		
Chromium, total	ug/L	MW-20	03/22/2017	ND	8.0000		
Chromium, total	ug/L	MW-20	08/24/2017	ND	8.0000		
Chromium, total	ug/L	MW-20	02/26/2018	ND	8.0000		
Chromium, total	ug/L	MW-20	08/29/2018	ND	8.0000		
Chromium, total	ug/L	MW-20	03/18/2019	ND	8.0000		
Chromium, total	ug/L	MW-20	09/10/2019	ND	8.0000		
Chromium, total	ug/L	MW-20	03/25/2020	ND	8.0000		
Chromium, total	ug/L	MW-20	09/04/2020	ND	8.0000		
Chromium, total	ug/L	MW-20	03/02/2021	ND	8.0000		
Chromium, total	ug/L	MW-20	09/02/2021	ND	8.0000		
Chromium, total	ug/L	MW-20	03/02/2022	ND	8.0000		
Chromium, total	ug/L	MW-20	08/29/2022	ND	8.0000		
Chromium, total	ug/L	MW-20	03/23/2023	ND	8.0000		
Chromium, total	ug/L	MW-20	09/25/2023	ND	8.0000		
Chromium, total	ug/L	MW-20	03/05/2024	ND	8.0000		
Chromium, total	ug/L	MW-20	09/30/2024	ND	8.0000		
Chromium, total	ug/L	MW-20	03/06/2025	ND	8.0000		
Chromium, total	ug/L	MW-20	09/17/2025	ND	4.9000		
Chromium, total	ug/L	MW-26	09/15/2014	ND	8.0000		
Chromium, total	ug/L	MW-26	01/14/2015	ND	8.0000		

* - 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	
Chromium, total	ug/L	MW-26	03/06/2015	ND	8.0000	8.0000	**
Chromium, total	ug/L	MW-26	06/16/2015	ND	8.0000		
Chromium, total	ug/L	MW-26	08/24/2015	ND	8.0000		
Chromium, total	ug/L	MW-26	03/01/2016	ND	8.0000		
Chromium, total	ug/L	MW-26	09/09/2016	ND	8.0000		
Chromium, total	ug/L	MW-26	03/22/2017	ND	8.0000		
Chromium, total	ug/L	MW-26	08/24/2017	ND	8.0000		
Chromium, total	ug/L	MW-26	02/26/2018	ND	20.0000		
Chromium, total	ug/L	MW-26	08/29/2018	ND	8.0000		
Chromium, total	ug/L	MW-26	03/18/2019	ND	8.0000		
Chromium, total	ug/L	MW-26	09/10/2019	ND	8.0000		
Chromium, total	ug/L	MW-26	03/25/2020	ND	8.0000		
Chromium, total	ug/L	MW-26	09/04/2020	ND	8.0000		
Chromium, total	ug/L	MW-26	03/02/2021	ND	8.0000		
Chromium, total	ug/L	MW-26	09/02/2021	ND	8.0000		
Chromium, total	ug/L	MW-26	03/02/2022	ND	8.0000		
Chromium, total	ug/L	MW-26	08/29/2022	ND	8.0000		
Chromium, total	ug/L	MW-26	03/23/2023	ND	8.0000		
Chromium, total	ug/L	MW-26	09/25/2023	ND	8.0000		
Chromium, total	ug/L	MW-26	03/05/2024	ND	8.0000		
Chromium, total	ug/L	MW-26	09/30/2024	ND	8.0000		
Chromium, total	ug/L	MW-26	03/06/2025	ND	8.0000		
Chromium, total	ug/L	MW-26	09/17/2025		1.0000		
Chromium, total	ug/L	MW-33	09/15/2014	ND	8.0000	8.0000	**
Chromium, total	ug/L	MW-33	03/06/2015	ND	8.0000		
Chromium, total	ug/L	MW-33	08/24/2015	ND	8.0000		
Chromium, total	ug/L	MW-33	03/01/2016	ND	8.0000		
Chromium, total	ug/L	MW-33	09/09/2016	ND	8.0000		
Chromium, total	ug/L	MW-33	03/22/2017	ND	8.0000		
Chromium, total	ug/L	MW-33	08/24/2017	ND	8.0000		
Chromium, total	ug/L	MW-33	02/26/2018	ND	8.0000		
Chromium, total	ug/L	MW-33	08/29/2018	ND	8.0000		
Chromium, total	ug/L	MW-33	03/18/2019	ND	8.0000		
Chromium, total	ug/L	MW-33	09/10/2019	ND	8.0000		
Chromium, total	ug/L	MW-33	03/25/2020	ND	8.0000		
Chromium, total	ug/L	MW-33	09/04/2020	ND	8.0000		
Chromium, total	ug/L	MW-33	03/02/2021	ND	8.0000		
Chromium, total	ug/L	MW-33	09/02/2021	ND	8.0000		
Chromium, total	ug/L	MW-33	03/02/2022	ND	8.0000		
Chromium, total	ug/L	MW-33	08/29/2022	ND	8.0000		
Chromium, total	ug/L	MW-33	03/23/2023	ND	8.0000		
Chromium, total	ug/L	MW-33	09/25/2023	ND	8.0000		
Chromium, total	ug/L	MW-33	03/05/2024	ND	8.0000		
Chromium, total	ug/L	MW-33	09/30/2024	ND	8.0000		
Chromium, total	ug/L	MW-33	03/06/2025	ND	8.0000		
Chromium, total	ug/L	MW-33	09/17/2025	ND	1.0000		
Chromium, total	ug/L	MW-37	09/15/2014	ND	8.0000		
Chromium, total	ug/L	MW-37	01/14/2015	ND	8.0000		
Chromium, total	ug/L	MW-37	03/06/2015	ND	8.0000		
Chromium, total	ug/L	MW-37	06/16/2015	ND	8.0000		
Chromium, total	ug/L	MW-37	08/24/2015	ND	8.0000		
Chromium, total	ug/L	MW-37	03/01/2016	ND	8.0000		
Chromium, total	ug/L	MW-37	09/09/2016	ND	8.0000		
Chromium, total	ug/L	MW-37	03/22/2017	ND	8.0000		
Chromium, total	ug/L	MW-37	08/24/2017	ND	8.0000		
Chromium, total	ug/L	MW-37	02/26/2018	ND	8.0000		
Chromium, total	ug/L	MW-37	08/29/2018	ND	8.0000		
Chromium, total	ug/L	MW-37	03/18/2019	ND	8.0000		
Chromium, total	ug/L	MW-37	09/10/2019	ND	8.0000		
Chromium, total	ug/L	MW-37	03/25/2020	ND	8.0000		
Chromium, total	ug/L	MW-37	09/04/2020	ND	8.0000		
Chromium, total	ug/L	MW-37	03/02/2021	ND	8.0000		
Chromium, total	ug/L	MW-37	09/02/2021	ND	8.0000		
Chromium, total	ug/L	MW-37	03/02/2022	ND	8.0000		
Chromium, total	ug/L	MW-37	08/29/2022	ND	8.0000		
Chromium, total	ug/L	MW-37	03/23/2023	ND	8.0000		
Chromium, total	ug/L	MW-37	09/25/2023	ND	8.0000		
Chromium, total	ug/L	MW-37	03/05/2024	ND	8.0000		
Chromium, total	ug/L	MW-37	09/30/2024	ND	8.0000		
Chromium, total	ug/L	MW-37	03/06/2025	ND	8.0000		
Chromium, total	ug/L	MW-37	09/17/2025		2.7000		
Cobalt, total	ug/L	MW-20	09/15/2014	ND	0.8000		
Cobalt, total	ug/L	MW-20	01/14/2015	ND	0.8000		
Cobalt, total	ug/L	MW-20	03/06/2015	ND	0.8000		

* - 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, total	ug/L	MW-20	06/16/2015	ND	0.8000		
Cobalt, total	ug/L	MW-20	08/24/2015	ND	0.8000		
Cobalt, total	ug/L	MW-20	03/01/2016	ND	0.8000		
Cobalt, total	ug/L	MW-20	09/09/2016	ND	0.8000		
Cobalt, total	ug/L	MW-20	03/22/2017	ND	0.8000		
Cobalt, total	ug/L	MW-20	08/24/2017	ND	0.8000		
Cobalt, total	ug/L	MW-20	02/26/2018		0.8000		
Cobalt, total	ug/L	MW-20	08/29/2018	ND	0.8000		
Cobalt, total	ug/L	MW-20	03/18/2019	ND	0.8000		
Cobalt, total	ug/L	MW-20	09/10/2019	ND	0.8000		
Cobalt, total	ug/L	MW-20	03/25/2020	ND	0.8000		
Cobalt, total	ug/L	MW-20	09/04/2020	ND	0.4000	0.8000	**
Cobalt, total	ug/L	MW-20	03/02/2021		1.0000		
Cobalt, total	ug/L	MW-20	09/02/2021		1.1000		
Cobalt, total	ug/L	MW-20	03/02/2022		0.8000		
Cobalt, total	ug/L	MW-20	08/29/2022	ND	0.4000	0.8000	**
Cobalt, total	ug/L	MW-20	03/23/2023	ND	0.4000	0.8000	**
Cobalt, total	ug/L	MW-20	09/25/2023	ND	0.4000	0.8000	**
Cobalt, total	ug/L	MW-20	03/05/2024		0.4000		
Cobalt, total	ug/L	MW-20	09/30/2024	ND	0.4000	0.8000	**
Cobalt, total	ug/L	MW-20	03/06/2025	ND	0.4000	0.8000	**
Cobalt, total	ug/L	MW-20	09/17/2025	ND	0.5000	0.8000	**
Cobalt, total	ug/L	MW-26	09/15/2014	ND	0.8000		
Cobalt, total	ug/L	MW-26	01/14/2015	ND	0.8000		
Cobalt, total	ug/L	MW-26	03/06/2015	ND	0.8000		
Cobalt, total	ug/L	MW-26	06/16/2015	ND	0.8000		
Cobalt, total	ug/L	MW-26	08/24/2015	ND	0.8000		
Cobalt, total	ug/L	MW-26	03/01/2016	ND	0.8000		
Cobalt, total	ug/L	MW-26	09/09/2016	ND	0.8000		
Cobalt, total	ug/L	MW-26	03/22/2017	ND	0.8000		
Cobalt, total	ug/L	MW-26	08/24/2017	ND	0.8000		
Cobalt, total	ug/L	MW-26	02/26/2018	ND	2.0000	0.8000	**
Cobalt, total	ug/L	MW-26	08/29/2018	ND	0.8000		
Cobalt, total	ug/L	MW-26	03/18/2019	ND	0.8000		
Cobalt, total	ug/L	MW-26	09/10/2019	ND	0.8000		
Cobalt, total	ug/L	MW-26	03/25/2020	ND	0.8000		
Cobalt, total	ug/L	MW-26	09/04/2020	ND	0.4000	0.8000	**
Cobalt, total	ug/L	MW-26	03/02/2021		0.9000		
Cobalt, total	ug/L	MW-26	09/02/2021	ND	0.4000	0.8000	**
Cobalt, total	ug/L	MW-26	03/02/2022		0.7000		
Cobalt, total	ug/L	MW-26	08/29/2022	ND	0.4000	0.8000	**
Cobalt, total	ug/L	MW-26	03/23/2023	ND	0.4000	0.8000	**
Cobalt, total	ug/L	MW-26	09/25/2023	ND	0.4000	0.8000	**
Cobalt, total	ug/L	MW-26	03/05/2024	ND	0.4000	0.8000	**
Cobalt, total	ug/L	MW-26	09/30/2024	ND	0.4000	0.8000	**
Cobalt, total	ug/L	MW-26	03/06/2025	ND	0.4000	0.8000	**
Cobalt, total	ug/L	MW-26	09/17/2025	ND	0.5000	0.8000	**
Cobalt, total	ug/L	MW-33	09/15/2014	ND	0.8000		
Cobalt, total	ug/L	MW-33	03/06/2015	ND	0.8000		
Cobalt, total	ug/L	MW-33	08/24/2015	ND	0.8000		
Cobalt, total	ug/L	MW-33	03/01/2016	ND	0.8000		
Cobalt, total	ug/L	MW-33	09/09/2016	ND	0.8000		
Cobalt, total	ug/L	MW-33	03/22/2017	ND	0.8000		
Cobalt, total	ug/L	MW-33	08/24/2017	ND	0.8000		
Cobalt, total	ug/L	MW-33	02/26/2018	ND	0.8000		
Cobalt, total	ug/L	MW-33	08/29/2018	ND	0.8000		
Cobalt, total	ug/L	MW-33	03/18/2019	ND	0.8000		
Cobalt, total	ug/L	MW-33	09/10/2019	ND	0.8000		
Cobalt, total	ug/L	MW-33	03/25/2020	ND	0.8000		
Cobalt, total	ug/L	MW-33	09/04/2020	ND	0.4000	0.8000	**
Cobalt, total	ug/L	MW-33	03/02/2021		0.9000		
Cobalt, total	ug/L	MW-33	09/02/2021		2.6000		
Cobalt, total	ug/L	MW-33	03/02/2022	ND	0.4000	0.8000	**
Cobalt, total	ug/L	MW-33	08/29/2022	ND	0.4000	0.8000	**
Cobalt, total	ug/L	MW-33	03/23/2023	ND	0.4000	0.8000	**
Cobalt, total	ug/L	MW-33	09/25/2023	ND	0.4000	0.8000	**
Cobalt, total	ug/L	MW-33	03/05/2024	ND	0.4000	0.8000	**
Cobalt, total	ug/L	MW-33	09/30/2024	ND	0.4000	0.8000	**
Cobalt, total	ug/L	MW-33	03/06/2025	ND	0.4000	0.8000	**
Cobalt, total	ug/L	MW-33	09/17/2025	ND	0.5000	0.8000	**
Cobalt, total	ug/L	MW-37	09/15/2014	ND	0.8000		
Cobalt, total	ug/L	MW-37	01/14/2015	ND	0.8000		
Cobalt, total	ug/L	MW-37	03/06/2015	ND	0.8000		
Cobalt, total	ug/L	MW-37	06/16/2015	ND	0.8000		

* - 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, total	ug/L	MW-37	08/24/2015	ND	0.8000		
Cobalt, total	ug/L	MW-37	03/01/2016	ND	0.8000		
Cobalt, total	ug/L	MW-37	09/09/2016	ND	0.8000		
Cobalt, total	ug/L	MW-37	03/22/2017	ND	0.8000		
Cobalt, total	ug/L	MW-37	08/24/2017	ND	0.8000		
Cobalt, total	ug/L	MW-37	02/26/2018	ND	0.8000		
Cobalt, total	ug/L	MW-37	08/29/2018	ND	0.8000		
Cobalt, total	ug/L	MW-37	03/18/2019	ND	0.8000		
Cobalt, total	ug/L	MW-37	09/10/2019	ND	0.8000		
Cobalt, total	ug/L	MW-37	03/25/2020	ND	0.8000		
Cobalt, total	ug/L	MW-37	09/04/2020	ND	0.4000	0.8000	**
Cobalt, total	ug/L	MW-37	03/02/2021		1.0000		
Cobalt, total	ug/L	MW-37	09/02/2021		1.8000		
Cobalt, total	ug/L	MW-37	03/02/2022	ND	0.4000	0.8000	**
Cobalt, total	ug/L	MW-37	08/29/2022	ND	0.4000	0.8000	**
Cobalt, total	ug/L	MW-37	03/23/2023	ND	0.4000	0.8000	**
Cobalt, total	ug/L	MW-37	09/25/2023	ND	0.4000	0.8000	**
Cobalt, total	ug/L	MW-37	03/05/2024	ND	0.4000	0.8000	**
Cobalt, total	ug/L	MW-37	09/30/2024	ND	0.4000	0.8000	**
Cobalt, total	ug/L	MW-37	03/06/2025	ND	0.4000	0.8000	**
Cobalt, total	ug/L	MW-37	09/17/2025	ND	0.5000	0.8000	**
Copper, total	ug/L	MW-20	09/15/2014	ND	4.0000		
Copper, total	ug/L	MW-20	01/14/2015	ND	4.0000		
Copper, total	ug/L	MW-20	03/06/2015	ND	4.0000		
Copper, total	ug/L	MW-20	06/16/2015	ND	4.0000		
Copper, total	ug/L	MW-20	08/24/2015	ND	4.0000		
Copper, total	ug/L	MW-20	03/01/2016	ND	4.0000		
Copper, total	ug/L	MW-20	09/09/2016	ND	4.0000		
Copper, total	ug/L	MW-20	03/22/2017	ND	4.0000		
Copper, total	ug/L	MW-20	08/24/2017	ND	4.0000		
Copper, total	ug/L	MW-20	02/26/2018	ND	4.0000		
Copper, total	ug/L	MW-20	08/29/2018	ND	4.0000		
Copper, total	ug/L	MW-20	03/18/2019	ND	4.0000		
Copper, total	ug/L	MW-20	09/10/2019	ND	4.0000		
Copper, total	ug/L	MW-20	03/25/2020	ND	4.0000		
Copper, total	ug/L	MW-20	09/04/2020	ND	4.0000		
Copper, total	ug/L	MW-20	03/02/2021	ND	4.0000		
Copper, total	ug/L	MW-20	09/02/2021	ND	4.0000		
Copper, total	ug/L	MW-20	03/02/2022	ND	4.0000		
Copper, total	ug/L	MW-20	08/29/2022	ND	4.0000		
Copper, total	ug/L	MW-20	03/23/2023	ND	4.0000		
Copper, total	ug/L	MW-20	09/25/2023	ND	4.0000		
Copper, total	ug/L	MW-20	03/05/2024	ND	4.0000		
Copper, total	ug/L	MW-20	09/30/2024	ND	4.0000		
Copper, total	ug/L	MW-20	03/06/2025	ND	4.0000		
Copper, total	ug/L	MW-20	09/17/2025	ND	5.0000	4.0000	**
Copper, total	ug/L	MW-26	09/15/2014	ND	4.0000		
Copper, total	ug/L	MW-26	01/14/2015	ND	4.0000		
Copper, total	ug/L	MW-26	03/06/2015	ND	4.0000		
Copper, total	ug/L	MW-26	06/16/2015	ND	4.0000		
Copper, total	ug/L	MW-26	08/24/2015	ND	4.0000		
Copper, total	ug/L	MW-26	03/01/2016	ND	4.0000		
Copper, total	ug/L	MW-26	09/09/2016	ND	4.0000		
Copper, total	ug/L	MW-26	03/22/2017	ND	4.0000		
Copper, total	ug/L	MW-26	08/24/2017	ND	4.0000		
Copper, total	ug/L	MW-26	02/26/2018	ND	10.0000	4.0000	**
Copper, total	ug/L	MW-26	08/29/2018	ND	4.0000		
Copper, total	ug/L	MW-26	03/18/2019	ND	4.0000		
Copper, total	ug/L	MW-26	09/10/2019	ND	4.0000		
Copper, total	ug/L	MW-26	03/25/2020	ND	4.0000		
Copper, total	ug/L	MW-26	09/04/2020	ND	4.0000		
Copper, total	ug/L	MW-26	03/02/2021	ND	4.0000		
Copper, total	ug/L	MW-26	09/02/2021	ND	4.0000		
Copper, total	ug/L	MW-26	03/02/2022	ND	4.0000		
Copper, total	ug/L	MW-26	08/29/2022	ND	4.0000		
Copper, total	ug/L	MW-26	03/23/2023	ND	4.0000		
Copper, total	ug/L	MW-26	09/25/2023		8.4000		
Copper, total	ug/L	MW-26	03/05/2024	ND	4.0000		
Copper, total	ug/L	MW-26	09/30/2024	ND	4.0000		
Copper, total	ug/L	MW-26	03/06/2025	ND	4.0000		
Copper, total	ug/L	MW-26	09/17/2025	ND	5.0000	4.0000	**
Copper, total	ug/L	MW-33	09/15/2014	ND	4.0000		
Copper, total	ug/L	MW-33	03/06/2015	ND	4.0000		
Copper, total	ug/L	MW-33	08/24/2015	ND	4.0000		

* - 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	
Copper, total	ug/L	MW-33	03/01/2016	ND	4.0000		
Copper, total	ug/L	MW-33	09/09/2016	ND	4.0000		
Copper, total	ug/L	MW-33	03/22/2017	ND	4.0000		
Copper, total	ug/L	MW-33	08/24/2017	ND	4.0000		
Copper, total	ug/L	MW-33	02/26/2018	ND	4.0000		
Copper, total	ug/L	MW-33	08/29/2018	ND	4.0000		
Copper, total	ug/L	MW-33	03/18/2019	ND	4.0000		
Copper, total	ug/L	MW-33	09/10/2019	ND	4.0000		
Copper, total	ug/L	MW-33	03/25/2020	ND	4.0000		
Copper, total	ug/L	MW-33	09/04/2020	ND	4.0000		
Copper, total	ug/L	MW-33	03/02/2021	ND	4.0000		
Copper, total	ug/L	MW-33	09/02/2021	ND	4.0000		
Copper, total	ug/L	MW-33	03/02/2022	ND	4.0000		
Copper, total	ug/L	MW-33	08/29/2022	ND	4.0000		
Copper, total	ug/L	MW-33	03/23/2023	ND	4.0000		
Copper, total	ug/L	MW-33	09/25/2023	ND	4.0000		
Copper, total	ug/L	MW-33	03/05/2024	ND	4.0000		
Copper, total	ug/L	MW-33	09/30/2024	ND	4.0000		
Copper, total	ug/L	MW-33	03/06/2025	ND	4.0000		
Copper, total	ug/L	MW-33	09/17/2025	ND	5.0000	4.0000	**
Copper, total	ug/L	MW-37	09/15/2014	ND	4.0000		
Copper, total	ug/L	MW-37	01/14/2015	ND	4.0000		
Copper, total	ug/L	MW-37	03/06/2015	ND	4.0000		
Copper, total	ug/L	MW-37	06/16/2015	ND	4.0000		
Copper, total	ug/L	MW-37	08/24/2015	ND	4.0000		
Copper, total	ug/L	MW-37	03/01/2016	ND	4.0000		
Copper, total	ug/L	MW-37	09/09/2016	ND	4.0000		
Copper, total	ug/L	MW-37	03/22/2017	ND	4.0000		
Copper, total	ug/L	MW-37	08/24/2017	ND	4.0000		
Copper, total	ug/L	MW-37	02/26/2018	ND	4.0000		
Copper, total	ug/L	MW-37	08/29/2018	ND	4.0000		
Copper, total	ug/L	MW-37	03/18/2019	ND	4.0000		
Copper, total	ug/L	MW-37	09/10/2019	ND	4.0000		
Copper, total	ug/L	MW-37	03/25/2020	ND	4.0000		
Copper, total	ug/L	MW-37	09/04/2020	ND	4.0000		
Copper, total	ug/L	MW-37	03/02/2021	ND	4.0000		
Copper, total	ug/L	MW-37	09/02/2021	ND	4.0000		
Copper, total	ug/L	MW-37	03/02/2022	ND	4.0000		
Copper, total	ug/L	MW-37	08/29/2022	ND	4.0000		
Copper, total	ug/L	MW-37	03/23/2023	ND	4.0000		
Copper, total	ug/L	MW-37	09/25/2023	ND	4.0000		
Copper, total	ug/L	MW-37	03/05/2024	ND	4.0000		
Copper, total	ug/L	MW-37	09/30/2024	ND	4.0000		
Copper, total	ug/L	MW-37	03/06/2025	ND	4.0000		
Copper, total	ug/L	MW-37	09/17/2025	ND	5.0000	4.0000	**
Lead, total	ug/L	MW-20	09/15/2014	ND	4.0000		
Lead, total	ug/L	MW-20	01/14/2015	ND	4.0000		
Lead, total	ug/L	MW-20	03/06/2015	ND	4.0000		
Lead, total	ug/L	MW-20	06/16/2015	ND	4.0000		
Lead, total	ug/L	MW-20	08/24/2015	ND	4.0000		
Lead, total	ug/L	MW-20	03/01/2016	ND	4.0000		
Lead, total	ug/L	MW-20	09/09/2016	ND	4.0000		
Lead, total	ug/L	MW-20	03/22/2017	ND	4.0000		
Lead, total	ug/L	MW-20	08/24/2017	ND	4.0000		
Lead, total	ug/L	MW-20	02/26/2018	ND	4.0000		
Lead, total	ug/L	MW-20	08/29/2018	ND	4.0000		
Lead, total	ug/L	MW-20	03/18/2019	ND	4.0000		
Lead, total	ug/L	MW-20	09/10/2019	ND	4.0000		
Lead, total	ug/L	MW-20	03/25/2020	ND	4.0000		
Lead, total	ug/L	MW-20	09/04/2020	ND	4.0000		
Lead, total	ug/L	MW-20	03/02/2021	ND	4.0000		
Lead, total	ug/L	MW-20	09/02/2021	ND	4.0000		
Lead, total	ug/L	MW-20	03/02/2022	ND	4.0000		
Lead, total	ug/L	MW-20	08/29/2022	ND	4.0000		
Lead, total	ug/L	MW-20	03/23/2023	ND	4.0000		
Lead, total	ug/L	MW-20	09/25/2023	ND	4.0000		
Lead, total	ug/L	MW-20	03/05/2024	ND	4.0000		
Lead, total	ug/L	MW-20	09/30/2024	ND	4.0000		
Lead, total	ug/L	MW-20	03/06/2025	ND	4.0000		
Lead, total	ug/L	MW-20	09/17/2025	ND	1.0000	4.0000	**
Lead, total	ug/L	MW-26	09/15/2014	ND	4.0000		
Lead, total	ug/L	MW-26	01/14/2015	ND	4.0000		
Lead, total	ug/L	MW-26	03/06/2015	ND	4.0000		
Lead, total	ug/L	MW-26	06/16/2015	ND	4.0000		

* - 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, total	ug/L	MW-26	08/24/2015	ND	4.0000	4.0000	**
Lead, total	ug/L	MW-26	03/01/2016	ND	4.0000		
Lead, total	ug/L	MW-26	09/09/2016	ND	4.0000		
Lead, total	ug/L	MW-26	03/22/2017	ND	4.0000		
Lead, total	ug/L	MW-26	08/24/2017	ND	4.0000		
Lead, total	ug/L	MW-26	02/26/2018	ND	10.0000		
Lead, total	ug/L	MW-26	08/29/2018	ND	4.0000		
Lead, total	ug/L	MW-26	03/18/2019	ND	4.0000		
Lead, total	ug/L	MW-26	09/10/2019	ND	4.0000		
Lead, total	ug/L	MW-26	03/25/2020	ND	4.0000		
Lead, total	ug/L	MW-26	09/04/2020	ND	4.0000		
Lead, total	ug/L	MW-26	03/02/2021	ND	4.0000		
Lead, total	ug/L	MW-26	09/02/2021	ND	4.0000		
Lead, total	ug/L	MW-26	03/02/2022	ND	4.0000		
Lead, total	ug/L	MW-26	08/29/2022	ND	4.0000		
Lead, total	ug/L	MW-26	03/23/2023	ND	4.0000		
Lead, total	ug/L	MW-26	09/25/2023	ND	4.0000		
Lead, total	ug/L	MW-26	03/05/2024	ND	4.0000		
Lead, total	ug/L	MW-26	09/30/2024	ND	4.0000		
Lead, total	ug/L	MW-26	03/06/2025	ND	4.0000	4.0000	**
Lead, total	ug/L	MW-26	09/17/2025	ND	1.0000		
Lead, total	ug/L	MW-33	09/15/2014	ND	4.0000	4.0000	**
Lead, total	ug/L	MW-33	03/06/2015	ND	4.0000		
Lead, total	ug/L	MW-33	08/24/2015	ND	4.0000		
Lead, total	ug/L	MW-33	03/01/2016	ND	4.0000		
Lead, total	ug/L	MW-33	09/09/2016	ND	4.0000		
Lead, total	ug/L	MW-33	03/22/2017	ND	4.0000		
Lead, total	ug/L	MW-33	08/24/2017	ND	4.0000		
Lead, total	ug/L	MW-33	02/26/2018	ND	4.0000		
Lead, total	ug/L	MW-33	08/29/2018	ND	4.0000		
Lead, total	ug/L	MW-33	03/18/2019	ND	4.0000		
Lead, total	ug/L	MW-33	09/10/2019	ND	4.0000		
Lead, total	ug/L	MW-33	03/25/2020	ND	4.0000		
Lead, total	ug/L	MW-33	09/04/2020	ND	4.0000		
Lead, total	ug/L	MW-33	03/02/2021	ND	4.0000		
Lead, total	ug/L	MW-33	09/02/2021	ND	4.0000		
Lead, total	ug/L	MW-33	03/02/2022	ND	4.0000		
Lead, total	ug/L	MW-33	08/29/2022	ND	4.0000		
Lead, total	ug/L	MW-33	03/23/2023	ND	4.0000		
Lead, total	ug/L	MW-33	09/25/2023	ND	4.0000		
Lead, total	ug/L	MW-33	03/05/2024	ND	4.0000		
Lead, total	ug/L	MW-33	09/30/2024	ND	4.0000		
Lead, total	ug/L	MW-33	03/06/2025	ND	4.0000	4.0000	**
Lead, total	ug/L	MW-33	09/17/2025	ND	1.0000		
Lead, total	ug/L	MW-37	09/15/2014	ND	4.0000	4.0000	**
Lead, total	ug/L	MW-37	01/14/2015	ND	4.0000		
Lead, total	ug/L	MW-37	03/06/2015	ND	4.0000		
Lead, total	ug/L	MW-37	06/16/2015	ND	4.0000		
Lead, total	ug/L	MW-37	08/24/2015	ND	4.0000		
Lead, total	ug/L	MW-37	03/01/2016	ND	4.0000		
Lead, total	ug/L	MW-37	09/09/2016	ND	4.0000		
Lead, total	ug/L	MW-37	03/22/2017	ND	4.0000		
Lead, total	ug/L	MW-37	08/24/2017	ND	4.0000		
Lead, total	ug/L	MW-37	02/26/2018	ND	4.0000		
Lead, total	ug/L	MW-37	08/29/2018	ND	4.0000		
Lead, total	ug/L	MW-37	03/18/2019	ND	4.0000		
Lead, total	ug/L	MW-37	09/10/2019	ND	4.0000		
Lead, total	ug/L	MW-37	03/25/2020	ND	4.0000		
Lead, total	ug/L	MW-37	09/04/2020	ND	4.0000		
Lead, total	ug/L	MW-37	03/02/2021	ND	4.0000		
Lead, total	ug/L	MW-37	09/02/2021	ND	4.0000		
Lead, total	ug/L	MW-37	03/02/2022	ND	4.0000		
Lead, total	ug/L	MW-37	08/29/2022	ND	4.0000		
Lead, total	ug/L	MW-37	03/23/2023	ND	4.0000		
Lead, total	ug/L	MW-37	09/25/2023	ND	4.0000		
Lead, total	ug/L	MW-37	03/05/2024	ND	4.0000		
Lead, total	ug/L	MW-37	09/30/2024	ND	4.0000		
Lead, total	ug/L	MW-37	03/06/2025	ND	4.0000	4.0000	**
Lead, total	ug/L	MW-37	09/17/2025	ND	1.0000		
Nickel, total	ug/L	MW-20	09/15/2014	ND	4.0000		
Nickel, total	ug/L	MW-20	01/14/2015	ND	4.0000		
Nickel, total	ug/L	MW-20	03/06/2015	ND	4.0000		
Nickel, total	ug/L	MW-20	06/16/2015	ND	4.0000		
Nickel, total	ug/L	MW-20	08/24/2015	ND	4.0000		

* - 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, total	ug/L	MW-20	03/01/2016	ND	4.0000	4.0000	**
Nickel, total	ug/L	MW-20	09/09/2016	ND	4.0000		
Nickel, total	ug/L	MW-20	03/22/2017	ND	4.0000		
Nickel, total	ug/L	MW-20	08/24/2017	ND	4.0000		
Nickel, total	ug/L	MW-20	02/26/2018	ND	4.0000		
Nickel, total	ug/L	MW-20	08/29/2018	ND	8.0000		
Nickel, total	ug/L	MW-20	03/18/2019	ND	4.0000		
Nickel, total	ug/L	MW-20	09/10/2019	ND	4.0000		
Nickel, total	ug/L	MW-20	03/25/2020	ND	4.0000		
Nickel, total	ug/L	MW-20	09/04/2020	ND	4.0000		
Nickel, total	ug/L	MW-20	03/02/2021	ND	4.0000		
Nickel, total	ug/L	MW-20	09/02/2021	ND	4.0000		
Nickel, total	ug/L	MW-20	03/02/2022	ND	4.0000		
Nickel, total	ug/L	MW-20	08/29/2022	ND	4.0000		
Nickel, total	ug/L	MW-20	03/23/2023	ND	4.0000		
Nickel, total	ug/L	MW-20	09/25/2023	ND	4.0000		
Nickel, total	ug/L	MW-20	03/05/2024	ND	4.0000		
Nickel, total	ug/L	MW-20	09/30/2024	ND	4.0000		
Nickel, total	ug/L	MW-20	03/06/2025	ND	4.0000	4.0000	**
Nickel, total	ug/L	MW-20	09/17/2025	ND	5.0000		
Nickel, total	ug/L	MW-26	09/15/2014	ND	4.0000	4.0000	**
Nickel, total	ug/L	MW-26	01/14/2015	ND	4.0000		
Nickel, total	ug/L	MW-26	03/06/2015	ND	4.0000		
Nickel, total	ug/L	MW-26	06/16/2015	ND	4.0000		
Nickel, total	ug/L	MW-26	08/24/2015	ND	4.0000		
Nickel, total	ug/L	MW-26	03/01/2016	ND	4.0000		
Nickel, total	ug/L	MW-26	09/09/2016	ND	4.0000		
Nickel, total	ug/L	MW-26	03/22/2017	ND	4.0000		
Nickel, total	ug/L	MW-26	08/24/2017	ND	4.0000		
Nickel, total	ug/L	MW-26	02/26/2018	ND	10.0000		
Nickel, total	ug/L	MW-26	08/29/2018	ND	8.0000		
Nickel, total	ug/L	MW-26	03/18/2019	ND	4.0000		
Nickel, total	ug/L	MW-26	09/10/2019	ND	4.0000		
Nickel, total	ug/L	MW-26	03/25/2020	ND	4.0000		
Nickel, total	ug/L	MW-26	09/04/2020	ND	4.0000		
Nickel, total	ug/L	MW-26	03/02/2021	ND	4.0000		
Nickel, total	ug/L	MW-26	09/02/2021	ND	4.0000		
Nickel, total	ug/L	MW-26	03/02/2022	ND	4.0000		
Nickel, total	ug/L	MW-26	08/29/2022	ND	4.0000		
Nickel, total	ug/L	MW-26	03/23/2023	ND	4.0000		
Nickel, total	ug/L	MW-26	09/25/2023	ND	4.0000		
Nickel, total	ug/L	MW-26	03/05/2024	ND	4.0000		
Nickel, total	ug/L	MW-26	09/30/2024	ND	4.0000		
Nickel, total	ug/L	MW-26	03/06/2025	ND	4.0000		
Nickel, total	ug/L	MW-26	09/17/2025	ND	5.0000		
Nickel, total	ug/L	MW-33	09/15/2014	ND	4.0000	4.0000	**
Nickel, total	ug/L	MW-33	03/06/2015	ND	4.0000		
Nickel, total	ug/L	MW-33	08/24/2015	ND	4.0000		
Nickel, total	ug/L	MW-33	03/01/2016	ND	4.0000		
Nickel, total	ug/L	MW-33	09/09/2016	ND	4.0000		
Nickel, total	ug/L	MW-33	03/22/2017	ND	4.0000		
Nickel, total	ug/L	MW-33	08/24/2017	ND	4.0000		
Nickel, total	ug/L	MW-33	02/26/2018	ND	4.0000		
Nickel, total	ug/L	MW-33	08/29/2018	ND	8.0000		
Nickel, total	ug/L	MW-33	03/18/2019	ND	4.0000		
Nickel, total	ug/L	MW-33	09/10/2019	ND	4.0000		
Nickel, total	ug/L	MW-33	03/25/2020	ND	4.0000		
Nickel, total	ug/L	MW-33	09/04/2020	ND	4.0000		
Nickel, total	ug/L	MW-33	03/02/2021	ND	4.0000		
Nickel, total	ug/L	MW-33	09/02/2021	ND	4.0000		
Nickel, total	ug/L	MW-33	03/02/2022	ND	4.0000		
Nickel, total	ug/L	MW-33	08/29/2022	ND	4.0000		
Nickel, total	ug/L	MW-33	03/23/2023	ND	4.0000		
Nickel, total	ug/L	MW-33	09/25/2023	ND	4.0000		
Nickel, total	ug/L	MW-33	03/05/2024	ND	4.0000		
Nickel, total	ug/L	MW-33	09/30/2024	ND	4.0000		
Nickel, total	ug/L	MW-33	03/06/2025	ND	4.0000		
Nickel, total	ug/L	MW-33	09/17/2025	ND	5.0000		
Nickel, total	ug/L	MW-37	09/15/2014	ND	4.0000		
Nickel, total	ug/L	MW-37	01/14/2015	ND	4.0000		
Nickel, total	ug/L	MW-37	03/06/2015	ND	4.0000		
Nickel, total	ug/L	MW-37	06/16/2015	ND	4.0000		
Nickel, total	ug/L	MW-37	08/24/2015	ND	4.0000		
Nickel, total	ug/L	MW-37	03/01/2016	ND	4.0000		

* - 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, total	ug/L	MW-37	09/09/2016	ND	4.0000	4.0000	**
Nickel, total	ug/L	MW-37	03/22/2017	ND	4.0000		
Nickel, total	ug/L	MW-37	08/24/2017	ND	4.0000		
Nickel, total	ug/L	MW-37	02/26/2018	ND	4.0000		
Nickel, total	ug/L	MW-37	08/29/2018	ND	8.0000		
Nickel, total	ug/L	MW-37	03/18/2019	ND	4.0000		
Nickel, total	ug/L	MW-37	09/10/2019	ND	4.0000		
Nickel, total	ug/L	MW-37	03/25/2020	ND	4.0000		
Nickel, total	ug/L	MW-37	09/04/2020	ND	4.0000		
Nickel, total	ug/L	MW-37	03/02/2021	ND	4.0000		
Nickel, total	ug/L	MW-37	09/02/2021	ND	4.0000		
Nickel, total	ug/L	MW-37	03/02/2022	ND	4.0000		
Nickel, total	ug/L	MW-37	08/29/2022	ND	4.0000		
Nickel, total	ug/L	MW-37	03/23/2023	ND	4.0000		
Nickel, total	ug/L	MW-37	09/25/2023	ND	4.0000		
Nickel, total	ug/L	MW-37	03/05/2024	ND	4.0000		
Nickel, total	ug/L	MW-37	09/30/2024	ND	4.0000		
Nickel, total	ug/L	MW-37	03/06/2025	ND	4.0000		
Nickel, total	ug/L	MW-37	09/17/2025	ND	5.0000	4.0000	**
Selenium, total	ug/L	MW-20	09/15/2014	ND	4.0000	4.0000	**
Selenium, total	ug/L	MW-20	01/14/2015	ND	4.0000		
Selenium, total	ug/L	MW-20	03/06/2015	ND	4.0000		
Selenium, total	ug/L	MW-20	06/16/2015	ND	4.0000		
Selenium, total	ug/L	MW-20	08/24/2015	ND	4.0000		
Selenium, total	ug/L	MW-20	03/01/2016	ND	4.0000		
Selenium, total	ug/L	MW-20	09/09/2016	ND	4.0000		
Selenium, total	ug/L	MW-20	03/22/2017	ND	4.0000		
Selenium, total	ug/L	MW-20	08/24/2017	ND	4.0000		
Selenium, total	ug/L	MW-20	02/26/2018	ND	4.0000		
Selenium, total	ug/L	MW-20	08/29/2018	ND	4.0000		
Selenium, total	ug/L	MW-20	03/18/2019	ND	4.0000		
Selenium, total	ug/L	MW-20	09/10/2019	ND	4.0000		
Selenium, total	ug/L	MW-20	03/25/2020	ND	4.0000		
Selenium, total	ug/L	MW-20	09/04/2020	ND	4.0000		
Selenium, total	ug/L	MW-20	03/02/2021	ND	4.0000		
Selenium, total	ug/L	MW-20	09/02/2021	ND	4.0000		
Selenium, total	ug/L	MW-20	03/02/2022	ND	4.0000		
Selenium, total	ug/L	MW-20	08/29/2022	ND	4.0000		
Selenium, total	ug/L	MW-20	03/23/2023	ND	4.0000		
Selenium, total	ug/L	MW-20	09/25/2023	ND	4.0000		
Selenium, total	ug/L	MW-20	03/05/2024	ND	4.0000		
Selenium, total	ug/L	MW-20	09/30/2024	ND	4.0000		
Selenium, total	ug/L	MW-20	03/06/2025	ND	4.0000		
Selenium, total	ug/L	MW-20	09/17/2025	ND	2.0000	4.0000	**
Selenium, total	ug/L	MW-26	09/15/2014		4.9000	4.0000	**
Selenium, total	ug/L	MW-26	01/14/2015	ND	4.0000		
Selenium, total	ug/L	MW-26	03/06/2015	ND	4.0000		
Selenium, total	ug/L	MW-26	06/16/2015		6.3000		
Selenium, total	ug/L	MW-26	08/24/2015		4.9000		
Selenium, total	ug/L	MW-26	03/01/2016		4.8000		
Selenium, total	ug/L	MW-26	09/09/2016	ND	4.0000		
Selenium, total	ug/L	MW-26	03/22/2017	ND	4.0000		
Selenium, total	ug/L	MW-26	08/24/2017	ND	4.0000		
Selenium, total	ug/L	MW-26	02/26/2018		10.7000		
Selenium, total	ug/L	MW-26	08/29/2018	ND	4.0000		
Selenium, total	ug/L	MW-26	03/18/2019	ND	4.0000		
Selenium, total	ug/L	MW-26	09/10/2019	ND	4.0000		
Selenium, total	ug/L	MW-26	03/25/2020		6.1000		
Selenium, total	ug/L	MW-26	09/04/2020	ND	4.0000		
Selenium, total	ug/L	MW-26	03/02/2021		10.8000		
Selenium, total	ug/L	MW-26	09/02/2021	ND	4.0000		
Selenium, total	ug/L	MW-26	03/02/2022		10.5000		
Selenium, total	ug/L	MW-26	08/29/2022		4.1000		
Selenium, total	ug/L	MW-26	03/23/2023		10.2000		
Selenium, total	ug/L	MW-26	09/25/2023	ND	4.0000		
Selenium, total	ug/L	MW-26	03/05/2024	ND	4.0000		
Selenium, total	ug/L	MW-26	09/30/2024	ND	4.0000		
Selenium, total	ug/L	MW-26	03/06/2025		12.4000		
Selenium, total	ug/L	MW-26	09/17/2025	ND	2.0000	4.0000	**
Selenium, total	ug/L	MW-33	09/15/2014	ND	4.0000		
Selenium, total	ug/L	MW-33	03/06/2015	ND	4.0000		
Selenium, total	ug/L	MW-33	08/24/2015	ND	4.0000		
Selenium, total	ug/L	MW-33	03/01/2016	ND	4.0000		
Selenium, total	ug/L	MW-33	09/09/2016	ND	4.0000		

* - 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, total	ug/L	MW-33	03/22/2017		4.7000		
Selenium, total	ug/L	MW-33	08/24/2017	ND	4.0000		
Selenium, total	ug/L	MW-33	02/26/2018	ND	4.0000		
Selenium, total	ug/L	MW-33	08/29/2018	ND	4.0000		
Selenium, total	ug/L	MW-33	03/18/2019	ND	4.0000		
Selenium, total	ug/L	MW-33	09/10/2019	ND	4.0000		
Selenium, total	ug/L	MW-33	03/25/2020	ND	4.0000		
Selenium, total	ug/L	MW-33	09/04/2020	ND	4.0000		
Selenium, total	ug/L	MW-33	03/02/2021	ND	4.0000		
Selenium, total	ug/L	MW-33	09/02/2021	ND	4.0000		
Selenium, total	ug/L	MW-33	03/02/2022	ND	4.0000		
Selenium, total	ug/L	MW-33	08/29/2022	ND	4.0000		
Selenium, total	ug/L	MW-33	03/23/2023	ND	4.0000		
Selenium, total	ug/L	MW-33	09/25/2023	ND	4.0000		
Selenium, total	ug/L	MW-33	03/05/2024	ND	4.0000		
Selenium, total	ug/L	MW-33	09/30/2024	ND	4.0000		
Selenium, total	ug/L	MW-33	03/06/2025	ND	4.0000		
Selenium, total	ug/L	MW-33	09/17/2025	ND	2.0000	4.0000	**
Selenium, total	ug/L	MW-37	09/15/2014		9.3000		
Selenium, total	ug/L	MW-37	01/14/2015		6.0000		
Selenium, total	ug/L	MW-37	03/06/2015		6.7000		
Selenium, total	ug/L	MW-37	06/16/2015		6.3000		
Selenium, total	ug/L	MW-37	08/24/2015		5.5000		
Selenium, total	ug/L	MW-37	03/01/2016		4.4000		
Selenium, total	ug/L	MW-37	09/09/2016		4.7000		
Selenium, total	ug/L	MW-37	03/22/2017		4.1000		
Selenium, total	ug/L	MW-37	08/24/2017		7.1000		
Selenium, total	ug/L	MW-37	02/26/2018		5.8000		
Selenium, total	ug/L	MW-37	08/29/2018		11.6000		
Selenium, total	ug/L	MW-37	03/18/2019		14.6000		
Selenium, total	ug/L	MW-37	09/10/2019		20.2000		
Selenium, total	ug/L	MW-37	03/25/2020		17.6000		
Selenium, total	ug/L	MW-37	09/04/2020		14.7000		
Selenium, total	ug/L	MW-37	03/02/2021		18.9000		
Selenium, total	ug/L	MW-37	09/02/2021		17.4000		
Selenium, total	ug/L	MW-37	03/02/2022		20.0000		
Selenium, total	ug/L	MW-37	08/29/2022		23.1000		
Selenium, total	ug/L	MW-37	03/23/2023		16.4000		
Selenium, total	ug/L	MW-37	09/25/2023		14.5000		
Selenium, total	ug/L	MW-37	03/05/2024		16.5000		
Selenium, total	ug/L	MW-37	09/30/2024		10.2000		
Selenium, total	ug/L	MW-37	03/06/2025		15.0000		
Selenium, total	ug/L	MW-37	09/17/2025		10.8000		
Silver, total	ug/L	MW-20	09/15/2014	ND	4.0000		
Silver, total	ug/L	MW-20	01/14/2015	ND	4.0000		
Silver, total	ug/L	MW-20	03/06/2015	ND	4.0000		
Silver, total	ug/L	MW-20	06/16/2015	ND	4.0000		
Silver, total	ug/L	MW-20	08/24/2015	ND	4.0000		
Silver, total	ug/L	MW-20	03/01/2016	ND	4.0000		
Silver, total	ug/L	MW-20	09/09/2016	ND	4.0000		
Silver, total	ug/L	MW-20	03/22/2017	ND	4.0000		
Silver, total	ug/L	MW-20	08/24/2017	ND	4.0000		
Silver, total	ug/L	MW-20	02/26/2018	ND	4.0000		
Silver, total	ug/L	MW-20	08/29/2018	ND	8.0000	4.0000	**
Silver, total	ug/L	MW-20	03/18/2019	ND	4.0000		
Silver, total	ug/L	MW-20	09/10/2019	ND	4.0000		
Silver, total	ug/L	MW-20	03/25/2020	ND	4.0000		
Silver, total	ug/L	MW-20	09/04/2020	ND	4.0000		
Silver, total	ug/L	MW-20	03/02/2021	ND	4.0000		
Silver, total	ug/L	MW-20	09/02/2021	ND	4.0000		
Silver, total	ug/L	MW-20	03/02/2022	ND	4.0000		
Silver, total	ug/L	MW-20	08/29/2022	ND	4.0000		
Silver, total	ug/L	MW-20	03/23/2023	ND	4.0000		
Silver, total	ug/L	MW-20	09/25/2023	ND	4.0000		
Silver, total	ug/L	MW-20	03/05/2024	ND	4.0000		
Silver, total	ug/L	MW-20	09/30/2024	ND	4.0000		
Silver, total	ug/L	MW-20	03/06/2025	ND	4.0000		
Silver, total	ug/L	MW-20	09/17/2025	ND	5.0000	4.0000	**
Silver, total	ug/L	MW-26	09/15/2014	ND	4.0000		
Silver, total	ug/L	MW-26	01/14/2015	ND	4.0000		
Silver, total	ug/L	MW-26	03/06/2015	ND	4.0000		
Silver, total	ug/L	MW-26	06/16/2015	ND	4.0000		
Silver, total	ug/L	MW-26	08/24/2015	ND	4.0000		
Silver, total	ug/L	MW-26	03/01/2016	ND	4.0000		

* - 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, total	ug/L	MW-26	09/09/2016	ND	4.0000		
Silver, total	ug/L	MW-26	03/22/2017	ND	4.0000		
Silver, total	ug/L	MW-26	08/24/2017	ND	4.0000		
Silver, total	ug/L	MW-26	02/26/2018	ND	10.0000	4.0000	**
Silver, total	ug/L	MW-26	08/29/2018	ND	8.0000	4.0000	**
Silver, total	ug/L	MW-26	03/18/2019	ND	4.0000		
Silver, total	ug/L	MW-26	09/10/2019	ND	4.0000		
Silver, total	ug/L	MW-26	03/25/2020	ND	4.0000		
Silver, total	ug/L	MW-26	09/04/2020	ND	4.0000		
Silver, total	ug/L	MW-26	03/02/2021	ND	4.0000		
Silver, total	ug/L	MW-26	09/02/2021	ND	4.0000		
Silver, total	ug/L	MW-26	03/02/2022	ND	4.0000		
Silver, total	ug/L	MW-26	08/29/2022	ND	4.0000		
Silver, total	ug/L	MW-26	03/23/2023	ND	4.0000		
Silver, total	ug/L	MW-26	09/25/2023	ND	4.0000		
Silver, total	ug/L	MW-26	03/05/2024	ND	4.0000		
Silver, total	ug/L	MW-26	09/30/2024	ND	4.0000		
Silver, total	ug/L	MW-26	03/06/2025	ND	4.0000		
Silver, total	ug/L	MW-26	09/17/2025	ND	5.0000	4.0000	**
Silver, total	ug/L	MW-33	09/15/2014	ND	4.0000		
Silver, total	ug/L	MW-33	03/06/2015	ND	4.0000		
Silver, total	ug/L	MW-33	08/24/2015	ND	4.0000		
Silver, total	ug/L	MW-33	03/01/2016	ND	4.0000		
Silver, total	ug/L	MW-33	09/09/2016	ND	4.0000		
Silver, total	ug/L	MW-33	03/22/2017	ND	4.0000		
Silver, total	ug/L	MW-33	08/24/2017	ND	4.0000		
Silver, total	ug/L	MW-33	02/26/2018	ND	4.0000		
Silver, total	ug/L	MW-33	08/29/2018	ND	8.0000	4.0000	**
Silver, total	ug/L	MW-33	03/18/2019	ND	4.0000		
Silver, total	ug/L	MW-33	09/10/2019	ND	4.0000		
Silver, total	ug/L	MW-33	03/25/2020	ND	4.0000		
Silver, total	ug/L	MW-33	09/04/2020	ND	4.0000		
Silver, total	ug/L	MW-33	03/02/2021	ND	4.0000		
Silver, total	ug/L	MW-33	09/02/2021	ND	4.0000		
Silver, total	ug/L	MW-33	03/02/2022	ND	4.0000		
Silver, total	ug/L	MW-33	08/29/2022	ND	4.0000		
Silver, total	ug/L	MW-33	03/23/2023	ND	4.0000		
Silver, total	ug/L	MW-33	09/25/2023	ND	4.0000		
Silver, total	ug/L	MW-33	03/05/2024	ND	4.0000		
Silver, total	ug/L	MW-33	09/30/2024	ND	4.0000		
Silver, total	ug/L	MW-33	03/06/2025	ND	4.0000		
Silver, total	ug/L	MW-33	09/17/2025	ND	5.0000	4.0000	**
Silver, total	ug/L	MW-37	09/15/2014	ND	4.0000		
Silver, total	ug/L	MW-37	01/14/2015	ND	4.0000		
Silver, total	ug/L	MW-37	03/06/2015	ND	4.0000		
Silver, total	ug/L	MW-37	06/16/2015	ND	4.0000		
Silver, total	ug/L	MW-37	08/24/2015	ND	4.0000		
Silver, total	ug/L	MW-37	03/01/2016	ND	4.0000		
Silver, total	ug/L	MW-37	09/09/2016	ND	4.0000		
Silver, total	ug/L	MW-37	03/22/2017	ND	4.0000		
Silver, total	ug/L	MW-37	08/24/2017	ND	4.0000		
Silver, total	ug/L	MW-37	02/26/2018	ND	4.0000		
Silver, total	ug/L	MW-37	08/29/2018	ND	8.0000	4.0000	**
Silver, total	ug/L	MW-37	03/18/2019	ND	4.0000		
Silver, total	ug/L	MW-37	09/10/2019	ND	4.0000		
Silver, total	ug/L	MW-37	03/25/2020	ND	4.0000		
Silver, total	ug/L	MW-37	09/04/2020	ND	4.0000		
Silver, total	ug/L	MW-37	03/02/2021	ND	4.0000		
Silver, total	ug/L	MW-37	09/02/2021	ND	4.0000		
Silver, total	ug/L	MW-37	03/02/2022	ND	4.0000		
Silver, total	ug/L	MW-37	08/29/2022	ND	4.0000		
Silver, total	ug/L	MW-37	03/23/2023	ND	4.0000		
Silver, total	ug/L	MW-37	09/25/2023	ND	4.0000		
Silver, total	ug/L	MW-37	03/05/2024	ND	4.0000		
Silver, total	ug/L	MW-37	09/30/2024	ND	4.0000		
Silver, total	ug/L	MW-37	03/06/2025	ND	4.0000		
Silver, total	ug/L	MW-37	09/17/2025	ND	5.0000	4.0000	**
Thallium, total	ug/L	MW-20	09/15/2014	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-20	01/14/2015	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-20	03/06/2015	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-20	06/16/2015	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-20	08/24/2015	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-20	03/01/2016	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-20	09/09/2016	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-20	03/22/2017	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-20	08/24/2017	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-20	02/26/2018	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-20	08/29/2018	ND	8.0000	2.0000	**
Thallium, total	ug/L	MW-20	03/18/2019	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-20	09/10/2019	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-20	03/25/2020	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-20	09/04/2020	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-20	03/02/2021	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-20	09/02/2021	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-20	03/02/2022	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-20	08/29/2022	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-20	03/23/2023	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-20	09/25/2023	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-20	03/05/2024	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-20	09/30/2024	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-20	03/06/2025	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-20	09/17/2025	ND	5.0000	2.0000	**

* - 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, total	ug/L	MW-20	03/22/2017	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-20	08/24/2017	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-20	02/26/2018	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-20	08/29/2018	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-20	03/18/2019	ND	2.0000		
Thallium, total	ug/L	MW-20	09/10/2019	ND	2.0000		
Thallium, total	ug/L	MW-20	03/25/2020	ND	2.0000		
Thallium, total	ug/L	MW-20	09/04/2020	ND	2.0000		
Thallium, total	ug/L	MW-20	03/02/2021	ND	2.0000		
Thallium, total	ug/L	MW-20	09/02/2021	ND	2.0000		
Thallium, total	ug/L	MW-20	03/02/2022	ND	2.0000		
Thallium, total	ug/L	MW-20	08/29/2022	ND	2.0000		
Thallium, total	ug/L	MW-20	03/23/2023	ND	2.0000		
Thallium, total	ug/L	MW-20	09/25/2023	ND	2.0000		
Thallium, total	ug/L	MW-20	03/05/2024	ND	2.0000		
Thallium, total	ug/L	MW-20	09/30/2024	ND	2.0000		
Thallium, total	ug/L	MW-20	03/06/2025	ND	2.0000		
Thallium, total	ug/L	MW-20	09/17/2025	ND	0.5000	2.0000	**
Thallium, total	ug/L	MW-26	09/15/2014	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-26	01/14/2015	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-26	03/06/2015	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-26	06/16/2015	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-26	08/24/2015	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-26	03/01/2016	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-26	09/09/2016	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-26	03/22/2017	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-26	08/24/2017	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-26	02/26/2018	ND	10.0000	2.0000	**
Thallium, total	ug/L	MW-26	08/29/2018	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-26	03/18/2019	ND	2.0000		
Thallium, total	ug/L	MW-26	09/10/2019	ND	2.0000		
Thallium, total	ug/L	MW-26	03/25/2020	ND	2.0000		
Thallium, total	ug/L	MW-26	09/04/2020	ND	2.0000		
Thallium, total	ug/L	MW-26	03/02/2021	ND	2.0000		
Thallium, total	ug/L	MW-26	09/02/2021	ND	2.0000		
Thallium, total	ug/L	MW-26	03/02/2022	ND	2.0000		
Thallium, total	ug/L	MW-26	08/29/2022	ND	2.0000		
Thallium, total	ug/L	MW-26	03/23/2023	ND	2.0000		
Thallium, total	ug/L	MW-26	09/25/2023	ND	2.0000		
Thallium, total	ug/L	MW-26	03/05/2024	ND	2.0000		
Thallium, total	ug/L	MW-26	09/30/2024	ND	2.0000		
Thallium, total	ug/L	MW-26	03/06/2025	ND	2.0000		
Thallium, total	ug/L	MW-26	09/17/2025	ND	0.5000	2.0000	**
Thallium, total	ug/L	MW-33	09/15/2014	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-33	03/06/2015	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-33	08/24/2015	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-33	03/01/2016	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-33	09/09/2016	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-33	03/22/2017	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-33	08/24/2017	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-33	02/26/2018	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-33	08/29/2018	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-33	03/18/2019	ND	2.0000		
Thallium, total	ug/L	MW-33	09/10/2019	ND	2.0000		
Thallium, total	ug/L	MW-33	03/25/2020	ND	2.0000		
Thallium, total	ug/L	MW-33	09/04/2020	ND	2.0000		
Thallium, total	ug/L	MW-33	03/02/2021	ND	2.0000		
Thallium, total	ug/L	MW-33	09/02/2021	ND	2.0000		
Thallium, total	ug/L	MW-33	03/02/2022	ND	2.0000		
Thallium, total	ug/L	MW-33	08/29/2022	ND	2.0000		
Thallium, total	ug/L	MW-33	03/23/2023	ND	2.0000		
Thallium, total	ug/L	MW-33	09/25/2023	ND	2.0000		
Thallium, total	ug/L	MW-33	03/05/2024	ND	2.0000		
Thallium, total	ug/L	MW-33	09/30/2024	ND	2.0000		
Thallium, total	ug/L	MW-33	03/06/2025	ND	2.0000		
Thallium, total	ug/L	MW-33	09/17/2025	ND	0.5000	2.0000	**
Thallium, total	ug/L	MW-37	09/15/2014	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-37	01/14/2015	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-37	03/06/2015	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-37	06/16/2015	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-37	08/24/2015	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-37	03/01/2016	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-37	09/09/2016	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-37	03/22/2017	ND	4.0000	2.0000	**

* - 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, total	ug/L	MW-37	08/24/2017	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-37	02/26/2018	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-37	08/29/2018	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-37	03/18/2019	ND	2.0000		
Thallium, total	ug/L	MW-37	09/10/2019	ND	2.0000		
Thallium, total	ug/L	MW-37	03/25/2020	ND	2.0000		
Thallium, total	ug/L	MW-37	09/04/2020	ND	2.0000		
Thallium, total	ug/L	MW-37	03/02/2021	ND	2.0000		
Thallium, total	ug/L	MW-37	09/02/2021	ND	2.0000		
Thallium, total	ug/L	MW-37	03/02/2022	ND	2.0000		
Thallium, total	ug/L	MW-37	08/29/2022	ND	2.0000		
Thallium, total	ug/L	MW-37	03/23/2023	ND	2.0000		
Thallium, total	ug/L	MW-37	09/25/2023	ND	2.0000		
Thallium, total	ug/L	MW-37	03/05/2024	ND	2.0000		
Thallium, total	ug/L	MW-37	09/30/2024	ND	2.0000		
Thallium, total	ug/L	MW-37	03/06/2025	ND	2.0000		
Thallium, total	ug/L	MW-37	09/17/2025	ND	0.5000	2.0000	**
Vanadium, total	ug/L	MW-20	09/15/2014	ND	20.0000		
Vanadium, total	ug/L	MW-20	01/14/2015	ND	20.0000		
Vanadium, total	ug/L	MW-20	03/06/2015	ND	20.0000		
Vanadium, total	ug/L	MW-20	06/16/2015	ND	20.0000		
Vanadium, total	ug/L	MW-20	08/24/2015	ND	20.0000		
Vanadium, total	ug/L	MW-20	03/01/2016	ND	20.0000		
Vanadium, total	ug/L	MW-20	09/09/2016	ND	20.0000		
Vanadium, total	ug/L	MW-20	03/22/2017	ND	20.0000		
Vanadium, total	ug/L	MW-20	08/24/2017	ND	20.0000		
Vanadium, total	ug/L	MW-20	02/26/2018	ND	20.0000		
Vanadium, total	ug/L	MW-20	08/29/2018	ND	20.0000		
Vanadium, total	ug/L	MW-20	03/18/2019	ND	20.0000		
Vanadium, total	ug/L	MW-20	09/10/2019	ND	20.0000		
Vanadium, total	ug/L	MW-20	03/25/2020	ND	20.0000		
Vanadium, total	ug/L	MW-20	09/04/2020	ND	20.0000		
Vanadium, total	ug/L	MW-20	03/02/2021	ND	20.0000		
Vanadium, total	ug/L	MW-20	09/02/2021	ND	20.0000		
Vanadium, total	ug/L	MW-20	03/02/2022	ND	20.0000		
Vanadium, total	ug/L	MW-20	08/29/2022	ND	20.0000		
Vanadium, total	ug/L	MW-20	03/23/2023	ND	20.0000		
Vanadium, total	ug/L	MW-20	09/25/2023	ND	20.0000		
Vanadium, total	ug/L	MW-20	03/05/2024	ND	20.0000		
Vanadium, total	ug/L	MW-20	09/30/2024	ND	20.0000		
Vanadium, total	ug/L	MW-20	03/06/2025	ND	20.0000		
Vanadium, total	ug/L	MW-20	09/17/2025	ND	2.0000	20.0000	**
Vanadium, total	ug/L	MW-26	09/15/2014	ND	20.0000		
Vanadium, total	ug/L	MW-26	01/14/2015	ND	20.0000		
Vanadium, total	ug/L	MW-26	03/06/2015	ND	20.0000		
Vanadium, total	ug/L	MW-26	06/16/2015	ND	20.0000		
Vanadium, total	ug/L	MW-26	08/24/2015	ND	20.0000		
Vanadium, total	ug/L	MW-26	03/01/2016	ND	20.0000		
Vanadium, total	ug/L	MW-26	09/09/2016	ND	20.0000		
Vanadium, total	ug/L	MW-26	03/22/2017	ND	20.0000		
Vanadium, total	ug/L	MW-26	08/24/2017	ND	20.0000		
Vanadium, total	ug/L	MW-26	02/26/2018	ND	50.0000	20.0000	**
Vanadium, total	ug/L	MW-26	08/29/2018	ND	20.0000		
Vanadium, total	ug/L	MW-26	03/18/2019	ND	20.0000		
Vanadium, total	ug/L	MW-26	09/10/2019	ND	20.0000		
Vanadium, total	ug/L	MW-26	03/25/2020	ND	20.0000		
Vanadium, total	ug/L	MW-26	09/04/2020	ND	20.0000		
Vanadium, total	ug/L	MW-26	03/02/2021	ND	20.0000		
Vanadium, total	ug/L	MW-26	09/02/2021	ND	20.0000		
Vanadium, total	ug/L	MW-26	03/02/2022	ND	20.0000		
Vanadium, total	ug/L	MW-26	08/29/2022	ND	20.0000		
Vanadium, total	ug/L	MW-26	03/23/2023	ND	20.0000		
Vanadium, total	ug/L	MW-26	09/25/2023	ND	20.0000		
Vanadium, total	ug/L	MW-26	03/05/2024	ND	20.0000		
Vanadium, total	ug/L	MW-26	09/30/2024	ND	20.0000		
Vanadium, total	ug/L	MW-26	03/06/2025	ND	20.0000		
Vanadium, total	ug/L	MW-26	09/17/2025	ND	2.0000	20.0000	**
Vanadium, total	ug/L	MW-33	09/15/2014	ND	20.0000		
Vanadium, total	ug/L	MW-33	03/06/2015	ND	20.0000		
Vanadium, total	ug/L	MW-33	08/24/2015	ND	20.0000		
Vanadium, total	ug/L	MW-33	03/01/2016	ND	20.0000		
Vanadium, total	ug/L	MW-33	09/09/2016	ND	20.0000		
Vanadium, total	ug/L	MW-33	03/22/2017	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 1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Vanadium, total	ug/L	MW-33	02/26/2018	ND	20.0000		
Vanadium, total	ug/L	MW-33	08/29/2018	ND	20.0000		
Vanadium, total	ug/L	MW-33	03/18/2019	ND	20.0000		
Vanadium, total	ug/L	MW-33	09/10/2019	ND	20.0000		
Vanadium, total	ug/L	MW-33	03/25/2020	ND	20.0000		
Vanadium, total	ug/L	MW-33	09/04/2020	ND	20.0000		
Vanadium, total	ug/L	MW-33	03/02/2021	ND	20.0000		
Vanadium, total	ug/L	MW-33	09/02/2021	ND	20.0000		
Vanadium, total	ug/L	MW-33	03/02/2022	ND	20.0000		
Vanadium, total	ug/L	MW-33	08/29/2022	ND	20.0000		
Vanadium, total	ug/L	MW-33	03/23/2023	ND	20.0000		
Vanadium, total	ug/L	MW-33	09/25/2023	ND	20.0000		
Vanadium, total	ug/L	MW-33	03/05/2024	ND	20.0000		
Vanadium, total	ug/L	MW-33	09/30/2024	ND	20.0000		
Vanadium, total	ug/L	MW-33	03/06/2025	ND	20.0000		
Vanadium, total	ug/L	MW-33	09/17/2025	ND	2.0000	20.0000	**
Vanadium, total	ug/L	MW-37	09/15/2014	ND	20.0000		
Vanadium, total	ug/L	MW-37	01/14/2015	ND	20.0000		
Vanadium, total	ug/L	MW-37	03/06/2015	ND	20.0000		
Vanadium, total	ug/L	MW-37	06/16/2015	ND	20.0000		
Vanadium, total	ug/L	MW-37	08/24/2015	ND	20.0000		
Vanadium, total	ug/L	MW-37	03/01/2016	ND	20.0000		
Vanadium, total	ug/L	MW-37	09/09/2016	ND	20.0000		
Vanadium, total	ug/L	MW-37	03/22/2017	ND	20.0000		
Vanadium, total	ug/L	MW-37	08/24/2017	ND	20.0000		
Vanadium, total	ug/L	MW-37	02/26/2018	ND	20.0000		
Vanadium, total	ug/L	MW-37	08/29/2018	ND	20.0000		
Vanadium, total	ug/L	MW-37	03/18/2019	ND	20.0000		
Vanadium, total	ug/L	MW-37	09/10/2019	ND	20.0000		
Vanadium, total	ug/L	MW-37	03/25/2020	ND	20.0000		
Vanadium, total	ug/L	MW-37	09/04/2020	ND	20.0000		
Vanadium, total	ug/L	MW-37	03/02/2021	ND	20.0000		
Vanadium, total	ug/L	MW-37	09/02/2021	ND	20.0000		
Vanadium, total	ug/L	MW-37	03/02/2022	ND	20.0000		
Vanadium, total	ug/L	MW-37	08/29/2022	ND	20.0000		
Vanadium, total	ug/L	MW-37	03/23/2023	ND	20.0000		
Vanadium, total	ug/L	MW-37	09/25/2023	ND	20.0000		
Vanadium, total	ug/L	MW-37	03/05/2024	ND	20.0000		
Vanadium, total	ug/L	MW-37	09/30/2024	ND	20.0000		
Vanadium, total	ug/L	MW-37	03/06/2025	ND	20.0000		
Vanadium, total	ug/L	MW-37	09/17/2025	ND	2.0000	20.0000	**
Zinc, total	ug/L	MW-20	09/15/2014		8.3000		
Zinc, total	ug/L	MW-20	01/14/2015	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-20	03/06/2015	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-20	06/16/2015	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-20	08/24/2015	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-20	03/01/2016	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-20	09/09/2016	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-20	03/22/2017	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-20	08/24/2017	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-20	02/26/2018		11.4000		
Zinc, total	ug/L	MW-20	08/29/2018		49.4000		
Zinc, total	ug/L	MW-20	03/18/2019		23.9000		
Zinc, total	ug/L	MW-20	09/10/2019	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-20	03/25/2020	ND	20.0000		
Zinc, total	ug/L	MW-20	09/04/2020	ND	20.0000		
Zinc, total	ug/L	MW-20	03/02/2021	ND	20.0000		
Zinc, total	ug/L	MW-20	09/02/2021		44.5000		
Zinc, total	ug/L	MW-20	03/02/2022	ND	20.0000		
Zinc, total	ug/L	MW-20	08/29/2022	ND	20.0000		
Zinc, total	ug/L	MW-20	03/23/2023	ND	20.0000		
Zinc, total	ug/L	MW-20	09/25/2023	ND	20.0000		
Zinc, total	ug/L	MW-20	03/05/2024	ND	20.0000		
Zinc, total	ug/L	MW-20	09/30/2024	ND	20.0000		
Zinc, total	ug/L	MW-20	03/06/2025	ND	20.0000		
Zinc, total	ug/L	MW-20	09/17/2025	ND	5.0000	20.0000	**
Zinc, total	ug/L	MW-26	09/15/2014		9.2000		
Zinc, total	ug/L	MW-26	01/14/2015	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-26	03/06/2015	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-26	06/16/2015	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-26	08/24/2015	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-26	03/01/2016	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-26	09/09/2016	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-26	03/22/2017	ND	8.0000	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 1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Zinc, total	ug/L	MW-26	08/24/2017	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-26	02/26/2018	ND	20.0000		
Zinc, total	ug/L	MW-26	08/29/2018		182.0000		*
Zinc, total	ug/L	MW-26	03/18/2019	ND	20.0000		
Zinc, total	ug/L	MW-26	09/10/2019	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-26	03/25/2020		38.0000		
Zinc, total	ug/L	MW-26	09/04/2020	ND	20.0000		
Zinc, total	ug/L	MW-26	03/02/2021	ND	20.0000		
Zinc, total	ug/L	MW-26	09/02/2021	ND	20.0000		
Zinc, total	ug/L	MW-26	03/02/2022	ND	20.0000		
Zinc, total	ug/L	MW-26	08/29/2022	ND	20.0000		
Zinc, total	ug/L	MW-26	03/23/2023	ND	20.0000		
Zinc, total	ug/L	MW-26	09/25/2023	ND	20.0000		
Zinc, total	ug/L	MW-26	03/05/2024	ND	20.0000		
Zinc, total	ug/L	MW-26	09/30/2024	ND	20.0000		
Zinc, total	ug/L	MW-26	03/06/2025	ND	20.0000		
Zinc, total	ug/L	MW-26	09/17/2025		7.2000		
Zinc, total	ug/L	MW-33	09/15/2014		12.9000		
Zinc, total	ug/L	MW-33	03/06/2015	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-33	08/24/2015		19.1000		
Zinc, total	ug/L	MW-33	03/01/2016	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-33	09/09/2016		9.8000		
Zinc, total	ug/L	MW-33	03/22/2017	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-33	08/24/2017	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-33	02/26/2018	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-33	08/29/2018		40.8000		
Zinc, total	ug/L	MW-33	03/18/2019		30.2000		
Zinc, total	ug/L	MW-33	09/10/2019	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-33	03/25/2020	ND	20.0000		
Zinc, total	ug/L	MW-33	09/04/2020	ND	20.0000		
Zinc, total	ug/L	MW-33	03/02/2021	ND	20.0000		
Zinc, total	ug/L	MW-33	09/02/2021	ND	20.0000		
Zinc, total	ug/L	MW-33	03/02/2022	ND	20.0000		
Zinc, total	ug/L	MW-33	08/29/2022	ND	20.0000		
Zinc, total	ug/L	MW-33	03/23/2023	ND	20.0000		
Zinc, total	ug/L	MW-33	09/25/2023	ND	20.0000		
Zinc, total	ug/L	MW-33	03/05/2024	ND	20.0000		
Zinc, total	ug/L	MW-33	09/30/2024	ND	20.0000		
Zinc, total	ug/L	MW-33	03/06/2025	ND	20.0000		
Zinc, total	ug/L	MW-33	09/17/2025	ND	5.0000	20.0000	**
Zinc, total	ug/L	MW-37	09/15/2014		11.2000		
Zinc, total	ug/L	MW-37	01/14/2015	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-37	03/06/2015	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-37	06/16/2015	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-37	08/24/2015	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-37	03/01/2016	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-37	09/09/2016	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-37	03/22/2017	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-37	08/24/2017	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-37	02/26/2018	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-37	08/29/2018		28.7000		
Zinc, total	ug/L	MW-37	03/18/2019	ND	20.0000		
Zinc, total	ug/L	MW-37	09/10/2019	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-37	03/25/2020	ND	20.0000		
Zinc, total	ug/L	MW-37	09/04/2020	ND	20.0000		
Zinc, total	ug/L	MW-37	03/02/2021	ND	20.0000		
Zinc, total	ug/L	MW-37	09/02/2021	ND	20.0000		
Zinc, total	ug/L	MW-37	03/02/2022	ND	20.0000		
Zinc, total	ug/L	MW-37	08/29/2022	ND	20.0000		
Zinc, total	ug/L	MW-37	03/23/2023	ND	20.0000		
Zinc, total	ug/L	MW-37	09/25/2023	ND	20.0000		
Zinc, total	ug/L	MW-37	03/05/2024	ND	20.0000		
Zinc, total	ug/L	MW-37	09/30/2024	ND	20.0000		
Zinc, total	ug/L	MW-37	03/06/2025	ND	20.0000		
Zinc, total	ug/L	MW-37	09/17/2025	ND	5.0000	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, total	ug/L	MW-10	09/17/2025	ND	1.0000		2.0000
Antimony, total	ug/L	MW-27	09/17/2025	ND	1.0000		2.0000
Antimony, total	ug/L	MW-34	09/17/2025	ND	1.0000		2.0000
Antimony, total	ug/L	MW-35	09/17/2025	ND	1.0000		2.0000
Antimony, total	ug/L	MW-36	09/17/2025	ND	1.0000		2.0000
Antimony, total	ug/L	MW-3A	09/17/2025	ND	1.0000		2.0000
Antimony, total	ug/L	MW-8	09/17/2025	ND	1.0000		2.0000
Arsenic, total	ug/L	MW-10	09/17/2025	ND	2.0000		4.0000
Arsenic, total	ug/L	MW-27	09/17/2025	ND	2.0000		4.0000
Arsenic, total	ug/L	MW-34	09/17/2025		3.4000		4.0000
Arsenic, total	ug/L	MW-35	09/17/2025	ND	2.0000		4.0000
Arsenic, total	ug/L	MW-36	09/17/2025	ND	2.0000		4.0000
Arsenic, total	ug/L	MW-3A	09/17/2025		6.9000	*	4.0000
Arsenic, total	ug/L	MW-8	09/17/2025	ND	2.0000		4.0000
Barium, total	ug/L	MW-10	09/17/2025		544.0000	***	282.8482
Barium, total	ug/L	MW-27	09/17/2025		175.0000		282.8482
Barium, total	ug/L	MW-34	09/17/2025		178.0000		282.8482
Barium, total	ug/L	MW-35	09/17/2025		454.0000	***	282.8482
Barium, total	ug/L	MW-36	09/17/2025		302.0000	***	282.8482
Barium, total	ug/L	MW-3A	09/17/2025		188.0000		282.8482
Barium, total	ug/L	MW-8	09/17/2025		305.0000	*	282.8482
Beryllium, total	ug/L	MW-10	09/17/2025	ND	0.5000		4.0000
Beryllium, total	ug/L	MW-27	09/17/2025	ND	0.5000		4.0000
Beryllium, total	ug/L	MW-34	09/17/2025	ND	0.5000		4.0000
Beryllium, total	ug/L	MW-35	09/17/2025	ND	0.5000		4.0000
Beryllium, total	ug/L	MW-36	09/17/2025	ND	0.5000		4.0000
Beryllium, total	ug/L	MW-3A	09/17/2025	ND	0.5000		4.0000
Beryllium, total	ug/L	MW-8	09/17/2025	ND	0.5000		4.0000
Cadmium, total	ug/L	MW-10	09/17/2025		0.4000		0.8000
Cadmium, total	ug/L	MW-27	09/17/2025	ND	0.2000		0.8000
Cadmium, total	ug/L	MW-34	09/17/2025	ND	0.2000		0.8000
Cadmium, total	ug/L	MW-35	09/17/2025	ND	0.2000		0.8000
Cadmium, total	ug/L	MW-36	09/17/2025	ND	0.2000		0.8000
Cadmium, total	ug/L	MW-3A	09/17/2025	ND	0.2000		0.8000
Cadmium, total	ug/L	MW-8	09/17/2025		0.7000		0.8000
Chromium, total	ug/L	MW-10	09/17/2025	ND	1.0000		8.0000
Chromium, total	ug/L	MW-27	09/17/2025		1.1000		8.0000
Chromium, total	ug/L	MW-34	09/17/2025		1.2000		8.0000
Chromium, total	ug/L	MW-35	09/17/2025		1.1000		8.0000
Chromium, total	ug/L	MW-36	09/17/2025		3.0000		8.0000
Chromium, total	ug/L	MW-3A	09/17/2025	ND	1.0000		8.0000
Chromium, total	ug/L	MW-8	09/17/2025		2.0000		8.0000
Cobalt, total	ug/L	MW-10	09/17/2025		6.3000	*	2.6000
Cobalt, total	ug/L	MW-27	09/17/2025	ND	0.5000		2.6000
Cobalt, total	ug/L	MW-34	09/17/2025		3.6000	*	2.6000
Cobalt, total	ug/L	MW-35	09/17/2025	ND	0.5000		2.6000
Cobalt, total	ug/L	MW-36	09/17/2025	ND	0.5000		2.6000
Cobalt, total	ug/L	MW-3A	09/17/2025		2.0000		2.6000
Cobalt, total	ug/L	MW-8	09/17/2025		1.3000		2.6000
Copper, total	ug/L	MW-10	09/17/2025	ND	5.0000		8.4000
Copper, total	ug/L	MW-27	09/17/2025	ND	5.0000		8.4000
Copper, total	ug/L	MW-34	09/17/2025	ND	5.0000		8.4000
Copper, total	ug/L	MW-35	09/17/2025	ND	5.0000		8.4000
Copper, total	ug/L	MW-36	09/17/2025	ND	5.0000		8.4000
Copper, total	ug/L	MW-3A	09/17/2025	ND	5.0000		8.4000
Copper, total	ug/L	MW-8	09/17/2025	ND	5.0000		8.4000
Lead, total	ug/L	MW-10	09/17/2025	ND	1.0000		4.0000
Lead, total	ug/L	MW-27	09/17/2025	ND	1.0000		4.0000
Lead, total	ug/L	MW-34	09/17/2025	ND	1.0000		4.0000
Lead, total	ug/L	MW-35	09/17/2025	ND	1.0000		4.0000
Lead, total	ug/L	MW-36	09/17/2025	ND	1.0000		4.0000
Lead, total	ug/L	MW-3A	09/17/2025	ND	1.0000		4.0000
Lead, total	ug/L	MW-8	09/17/2025	ND	1.0000		4.0000
Nickel, total	ug/L	MW-10	09/17/2025		16.0000	***	4.0000
Nickel, total	ug/L	MW-27	09/17/2025	ND	5.0000		4.0000
Nickel, total	ug/L	MW-34	09/17/2025		10.6000	*	4.0000
Nickel, total	ug/L	MW-35	09/17/2025	ND	5.0000		4.0000
Nickel, total	ug/L	MW-36	09/17/2025	ND	5.0000		4.0000
Nickel, total	ug/L	MW-3A	09/17/2025		5.1000	*	4.0000
Nickel, total	ug/L	MW-8	09/17/2025		9.8000	***	4.0000
Selenium, total	ug/L	MW-10	09/17/2025	ND	2.0000		23.1000
Selenium, total	ug/L	MW-27	09/17/2025	ND	2.0000		23.1000

* - 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 2

Most Current Downgradient Monitoring Data

Constituent	Units	Well	Date		Result		Pred. Limit
Selenium, total	ug/L	MW-34	09/17/2025	ND	2.0000		23.1000
Selenium, total	ug/L	MW-35	09/17/2025	ND	2.0000		23.1000
Selenium, total	ug/L	MW-36	09/17/2025	ND	2.0000		23.1000
Selenium, total	ug/L	MW-3A	09/17/2025	ND	2.0000		23.1000
Selenium, total	ug/L	MW-8	09/17/2025	ND	2.0000		23.1000
Silver, total	ug/L	MW-10	09/17/2025	ND	5.0000		4.0000
Silver, total	ug/L	MW-27	09/17/2025	ND	5.0000		4.0000
Silver, total	ug/L	MW-34	09/17/2025	ND	5.0000		4.0000
Silver, total	ug/L	MW-35	09/17/2025	ND	5.0000		4.0000
Silver, total	ug/L	MW-36	09/17/2025	ND	5.0000		4.0000
Silver, total	ug/L	MW-3A	09/17/2025	ND	5.0000		4.0000
Silver, total	ug/L	MW-8	09/17/2025	ND	5.0000		4.0000
Thallium, total	ug/L	MW-10	09/17/2025	ND	0.5000		2.0000
Thallium, total	ug/L	MW-27	09/17/2025	ND	0.5000		2.0000
Thallium, total	ug/L	MW-34	09/17/2025	ND	0.5000		2.0000
Thallium, total	ug/L	MW-35	09/17/2025	ND	0.5000		2.0000
Thallium, total	ug/L	MW-36	09/17/2025	ND	0.5000		2.0000
Thallium, total	ug/L	MW-3A	09/17/2025	ND	0.5000		2.0000
Thallium, total	ug/L	MW-8	09/17/2025	ND	0.5000		2.0000
Vanadium, total	ug/L	MW-10	09/17/2025	ND	2.0000		20.0000
Vanadium, total	ug/L	MW-27	09/17/2025	ND	2.0000		20.0000
Vanadium, total	ug/L	MW-34	09/17/2025	ND	2.0000		20.0000
Vanadium, total	ug/L	MW-35	09/17/2025	ND	2.0000		20.0000
Vanadium, total	ug/L	MW-36	09/17/2025	ND	2.0000		20.0000
Vanadium, total	ug/L	MW-3A	09/17/2025	ND	2.0000		20.0000
Vanadium, total	ug/L	MW-8	09/17/2025	ND	2.0000		20.0000
Zinc, total	ug/L	MW-10	09/17/2025		8.8000		49.4000
Zinc, total	ug/L	MW-27	09/17/2025	ND	5.0000		49.4000
Zinc, total	ug/L	MW-34	09/17/2025		5.1000		49.4000
Zinc, total	ug/L	MW-35	09/17/2025	ND	5.0000		49.4000
Zinc, total	ug/L	MW-36	09/17/2025	ND	5.0000		49.4000
Zinc, total	ug/L	MW-3A	09/17/2025	ND	5.0000		49.4000
Zinc, total	ug/L	MW-8	09/17/2025		6.7000		49.4000

* - 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	Detect	Upgradient N	Proportion	Detect	Downgradient N	Proportion
Antimony, total	0	98	0.000	0	233	0.000
Arsenic, total	0	98	0.000	52	236	0.220
Barium, total	99	99	1.000	241	241	1.000
Beryllium, total	0	98	0.000	0	233	0.000
Cadmium, total	2	98	0.020	21	234	0.090
Chromium, total	3	98	0.031	18	233	0.077
Cobalt, total	11	98	0.112	118	236	0.500
Copper, total	1	98	0.010	55	233	0.236
Lead, total	0	98	0.000	26	233	0.112
Nickel, total	0	98	0.000	143	236	0.606
Selenium, total	37	98	0.378	4	233	0.017
Silver, total	0	98	0.000	0	233	0.000
Thallium, total	0	98	0.000	1	233	0.004
Vanadium, total	0	98	0.000	13	236	0.055
Zinc, total	15	97	0.155	87	233	0.373

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, total	0	98	0.000									nonpar
Arsenic, total	0	98	0.000									nonpar
Barium, total	99	99	1.000	2.046	2.262					2.326	normal	normal
Beryllium, total	0	98	0.000									nonpar
Cadmium, total	2	98	0.020									nonpar
Chromium, total	3	98	0.031									nonpar
Cobalt, total	11	98	0.112	0.003	0.974					2.326	normal	nonpar
Copper, total	1	98	0.010									nonpar
Lead, total	0	98	0.000									nonpar
Nickel, total	0	98	0.000									nonpar
Selenium, total	37	98	0.378	2.194	2.336					2.326	normal	nonpar
Silver, total	0	98	0.000									nonpar
Thallium, total	0	98	0.000									nonpar
Vanadium, total	0	98	0.000									nonpar
Zinc, total	15	97	0.155	0.808	0.060					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, total	ug/L	0	98	142.1616	59.1889	0.0100	2.3769	2.0000	nonpar	***	0.99
Arsenic, total	ug/L	0	98					4.0000	nonpar	***	0.99
Barium, total	ug/L	99	99					282.8482	normal		
Beryllium, total	ug/L	0	98					4.0000	nonpar	***	0.99
Cadmium, total	ug/L	2	98					0.8000	nonpar	***	0.99
Chromium, total	ug/L	3	98					8.0000	nonpar	***	0.99
Cobalt, total	ug/L	11	98					2.6000	nonpar		0.99
Copper, total	ug/L	1	98					8.4000	nonpar		0.99
Lead, total	ug/L	0	98					4.0000	nonpar	***	0.99
Nickel, total	ug/L	0	98					4.0000	nonpar	***	0.99
Selenium, total	ug/L	37	98					23.1000	nonpar		0.99
Silver, total	ug/L	0	98					4.0000	nonpar	***	0.99
Thallium, total	ug/L	0	98					2.0000	nonpar	***	0.99
Vanadium, total	ug/L	0	98					20.0000	nonpar	***	0.99
Zinc, total	ug/L	15	97					49.4000	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

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, total	ug/L	MW-3A	03/29/2011	ND	4.0000	4.0000
Arsenic, total	ug/L	MW-3A	09/13/2011	ND	4.0000	4.0000
Arsenic, total	ug/L	MW-3A	03/28/2012	ND	4.0000	4.0000
Arsenic, total	ug/L	MW-3A	07/05/2012	ND	4.0000	4.0000
Arsenic, total	ug/L	MW-3A	03/26/2013	ND	4.0000	4.0000
Arsenic, total	ug/L	MW-3A	09/25/2013		10.3000 *	4.0000
Arsenic, total	ug/L	MW-3A	04/09/2014	ND	4.0000	4.0000
Arsenic, total	ug/L	MW-3A	09/15/2014	ND	4.0000	4.0000
Arsenic, total	ug/L	MW-3A	03/06/2015	ND	4.0000	4.0000
Arsenic, total	ug/L	MW-3A	08/24/2015	ND	4.0000	4.0000
Arsenic, total	ug/L	MW-3A	03/01/2016	ND	4.0000	4.0000
Arsenic, total	ug/L	MW-3A	09/09/2016		6.1000 *	4.0000
Arsenic, total	ug/L	MW-3A	10/31/2016		4.7000 *	4.0000
Arsenic, total	ug/L	MW-3A	03/22/2017	ND	4.0000	4.0000
Arsenic, total	ug/L	MW-3A	08/24/2017		4.5000 *	4.0000
Arsenic, total	ug/L	MW-3A	11/15/2017		9.4000 *	4.0000
Arsenic, total	ug/L	MW-3A	02/26/2018	ND	4.0000	4.0000
Arsenic, total	ug/L	MW-3A	08/29/2018		5.6000 *	4.0000
Arsenic, total	ug/L	MW-3A	03/18/2019	ND	4.0000	4.0000
Arsenic, total	ug/L	MW-3A	09/10/2019	ND	4.0000	4.0000
Arsenic, total	ug/L	MW-3A	03/25/2020	ND	4.0000	4.0000
Arsenic, total	ug/L	MW-3A	09/04/2020	ND	4.0000	4.0000
Arsenic, total	ug/L	MW-3A	03/02/2021	ND	4.0000	4.0000
Arsenic, total	ug/L	MW-3A	09/02/2021		4.1000 *	4.0000
Arsenic, total	ug/L	MW-3A	03/02/2022	ND	4.0000	4.0000
Arsenic, total	ug/L	MW-3A	08/29/2022	ND	4.0000	4.0000
Arsenic, total	ug/L	MW-3A	03/23/2023	ND	4.0000	4.0000
Arsenic, total	ug/L	MW-3A	03/05/2024	ND	4.0000	4.0000
Arsenic, total	ug/L	MW-3A	09/30/2024		10.1000 *	4.0000
Arsenic, total	ug/L	MW-3A	03/06/2025	ND	4.0000	4.0000
Arsenic, total	ug/L	MW-3A	09/17/2025		6.9000 *	4.0000
Barium, total	ug/L	MW-10	03/26/2008		234.0000	282.8482
Barium, total	ug/L	MW-10	05/06/2008		190.0000	282.8482
Barium, total	ug/L	MW-10	07/23/2008		179.0000	282.8482
Barium, total	ug/L	MW-10	09/30/2008		491.0000 *	282.8482
Barium, total	ug/L	MW-10	12/02/2008		579.0000 *	282.8482
Barium, total	ug/L	MW-10	03/05/2009		611.0000 *	282.8482
Barium, total	ug/L	MW-10	09/01/2009		405.0000 *	282.8482
Barium, total	ug/L	MW-10	03/23/2010		204.0000	282.8482
Barium, total	ug/L	MW-10	07/26/2010		382.0000 *	282.8482
Barium, total	ug/L	MW-10	09/09/2010		530.0000 *	282.8482
Barium, total	ug/L	MW-10	03/29/2011		499.0000 *	282.8482
Barium, total	ug/L	MW-10	09/13/2011		616.0000 *	282.8482
Barium, total	ug/L	MW-10	03/28/2012		341.0000 *	282.8482
Barium, total	ug/L	MW-10	09/11/2012		638.0000 *	282.8482
Barium, total	ug/L	MW-10	03/26/2013		454.0000 *	282.8482
Barium, total	ug/L	MW-10	09/25/2013		615.0000 *	282.8482
Barium, total	ug/L	MW-10	03/20/2014		606.0000 *	282.8482
Barium, total	ug/L	MW-10	09/15/2014		601.0000 *	282.8482
Barium, total	ug/L	MW-10	03/06/2015		547.0000 *	282.8482
Barium, total	ug/L	MW-10	08/24/2015		620.0000 *	282.8482
Barium, total	ug/L	MW-10	03/01/2016		405.0000 *	282.8482
Barium, total	ug/L	MW-10	09/09/2016		623.0000 *	282.8482
Barium, total	ug/L	MW-10	03/22/2017		676.0000 *	282.8482
Barium, total	ug/L	MW-10	08/24/2017		519.0000 *	282.8482
Barium, total	ug/L	MW-10	02/26/2018		589.0000 *	282.8482
Barium, total	ug/L	MW-10	08/29/2018		592.0000 *	282.8482
Barium, total	ug/L	MW-10	03/18/2019		213.0000	282.8482
Barium, total	ug/L	MW-10	09/10/2019		377.0000 *	282.8482
Barium, total	ug/L	MW-10	03/25/2020		412.0000 *	282.8482
Barium, total	ug/L	MW-10	09/04/2020		408.0000 *	282.8482
Barium, total	ug/L	MW-10	03/02/2021		413.0000 *	282.8482
Barium, total	ug/L	MW-10	09/02/2021		458.0000 *	282.8482
Barium, total	ug/L	MW-10	03/02/2022		394.0000 *	282.8482
Barium, total	ug/L	MW-10	08/29/2022		395.0000 *	282.8482
Barium, total	ug/L	MW-10	03/23/2023		354.0000 *	282.8482
Barium, total	ug/L	MW-10	09/25/2023		376.0000 *	282.8482
Barium, total	ug/L	MW-10	03/05/2024		440.0000 *	282.8482
Barium, total	ug/L	MW-10	09/30/2024		533.0000 *	282.8482
Barium, total	ug/L	MW-10	03/06/2025		432.0000 *	282.8482
Barium, total	ug/L	MW-10	09/17/2025		544.0000 *	282.8482

* - 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, total	ug/L	MW-35	03/29/2011		363.0000	*	282.8482
Barium, total	ug/L	MW-35	05/04/2011		267.0000		282.8482
Barium, total	ug/L	MW-35	09/13/2011		495.0000	*	282.8482
Barium, total	ug/L	MW-35	03/28/2012		757.0000	*	282.8482
Barium, total	ug/L	MW-35	07/05/2012		730.0000	*	282.8482
Barium, total	ug/L	MW-35	09/11/2012		864.0000	*	282.8482
Barium, total	ug/L	MW-35	10/30/2012		494.0000	*	282.8482
Barium, total	ug/L	MW-35	03/26/2013		697.0000	*	282.8482
Barium, total	ug/L	MW-35	09/25/2013		795.0000	*	282.8482
Barium, total	ug/L	MW-35	03/20/2014		772.0000	*	282.8482
Barium, total	ug/L	MW-35	09/15/2014		668.0000	*	282.8482
Barium, total	ug/L	MW-35	03/06/2015		740.0000	*	282.8482
Barium, total	ug/L	MW-35	08/24/2015		695.0000	*	282.8482
Barium, total	ug/L	MW-35	03/01/2016		676.0000	*	282.8482
Barium, total	ug/L	MW-35	09/09/2016		664.0000	*	282.8482
Barium, total	ug/L	MW-35	03/22/2017		629.0000	*	282.8482
Barium, total	ug/L	MW-35	08/24/2017		667.0000	*	282.8482
Barium, total	ug/L	MW-35	02/26/2018		637.0000	*	282.8482
Barium, total	ug/L	MW-35	08/29/2018		580.0000	*	282.8482
Barium, total	ug/L	MW-35	03/18/2019		1230.0000	*	282.8482
Barium, total	ug/L	MW-35	09/10/2019		387.0000	*	282.8482
Barium, total	ug/L	MW-35	03/25/2020		543.0000	*	282.8482
Barium, total	ug/L	MW-35	09/04/2020		268.0000		282.8482
Barium, total	ug/L	MW-35	03/02/2021		481.0000	*	282.8482
Barium, total	ug/L	MW-35	09/02/2021		248.0000		282.8482
Barium, total	ug/L	MW-35	03/02/2022		483.0000	*	282.8482
Barium, total	ug/L	MW-35	08/29/2022		372.0000	*	282.8482
Barium, total	ug/L	MW-35	03/23/2023		451.0000	*	282.8482
Barium, total	ug/L	MW-35	09/25/2023		378.0000	*	282.8482
Barium, total	ug/L	MW-35	03/05/2024		460.0000	*	282.8482
Barium, total	ug/L	MW-35	09/30/2024		448.0000	*	282.8482
Barium, total	ug/L	MW-35	03/06/2025		435.0000	*	282.8482
Barium, total	ug/L	MW-35	09/17/2025		454.0000	*	282.8482
Barium, total	ug/L	MW-36	05/11/2011		391.0000	*	282.8482
Barium, total	ug/L	MW-36	09/13/2011		513.0000	*	282.8482
Barium, total	ug/L	MW-36	03/28/2012		382.0000	*	282.8482
Barium, total	ug/L	MW-36	09/11/2012		282.0000		282.8482
Barium, total	ug/L	MW-36	03/26/2013		223.0000		282.8482
Barium, total	ug/L	MW-36	09/25/2013		299.0000	*	282.8482
Barium, total	ug/L	MW-36	03/20/2014		293.0000	*	282.8482
Barium, total	ug/L	MW-36	09/15/2014		302.0000	*	282.8482
Barium, total	ug/L	MW-36	03/06/2015		344.0000	*	282.8482
Barium, total	ug/L	MW-36	08/24/2015		322.0000	*	282.8482
Barium, total	ug/L	MW-36	03/01/2016		347.0000	*	282.8482
Barium, total	ug/L	MW-36	09/09/2016		345.0000	*	282.8482
Barium, total	ug/L	MW-36	01/26/2017		337.0000	*	282.8482
Barium, total	ug/L	MW-36	03/22/2017		327.0000	*	282.8482
Barium, total	ug/L	MW-36	08/24/2017		357.0000	*	282.8482
Barium, total	ug/L	MW-36	02/26/2018		341.0000	*	282.8482
Barium, total	ug/L	MW-36	08/29/2018		341.0000	*	282.8482
Barium, total	ug/L	MW-36	03/18/2019		348.0000	*	282.8482
Barium, total	ug/L	MW-36	09/10/2019		336.0000	*	282.8482
Barium, total	ug/L	MW-36	03/25/2020		346.0000	*	282.8482
Barium, total	ug/L	MW-36	09/04/2020		353.0000	*	282.8482
Barium, total	ug/L	MW-36	03/02/2021		331.0000	*	282.8482
Barium, total	ug/L	MW-36	09/02/2021		336.0000	*	282.8482
Barium, total	ug/L	MW-36	03/02/2022		309.0000	*	282.8482
Barium, total	ug/L	MW-36	08/29/2022		314.0000	*	282.8482
Barium, total	ug/L	MW-36	03/23/2023		301.0000	*	282.8482
Barium, total	ug/L	MW-36	09/25/2023		289.0000	*	282.8482
Barium, total	ug/L	MW-36	03/05/2024		315.0000	*	282.8482
Barium, total	ug/L	MW-36	09/30/2024		292.0000	*	282.8482
Barium, total	ug/L	MW-36	03/06/2025		300.0000	*	282.8482
Barium, total	ug/L	MW-36	09/17/2025		302.0000	*	282.8482
Barium, total	ug/L	MW-8	03/26/2008		92.0000		282.8482
Barium, total	ug/L	MW-8	05/06/2008		83.0000		282.8482
Barium, total	ug/L	MW-8	07/23/2008		284.0000	*	282.8482
Barium, total	ug/L	MW-8	09/30/2008		222.0000		282.8482
Barium, total	ug/L	MW-8	12/02/2008		523.0000	*	282.8482
Barium, total	ug/L	MW-8	03/05/2009		249.0000		282.8482
Barium, total	ug/L	MW-8	09/01/2009		368.0000	*	282.8482

* - 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
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Constituent	Units	Well	Date		Result	Pred. Limit
Barium, total	ug/L	MW-8	03/23/2010		186.0000	282.8482
Barium, total	ug/L	MW-8	09/09/2010		259.0000	282.8482
Barium, total	ug/L	MW-8	03/29/2011		360.0000	282.8482
Barium, total	ug/L	MW-8	09/13/2011		214.0000	282.8482
Barium, total	ug/L	MW-8	03/28/2012		254.0000	282.8482
Barium, total	ug/L	MW-8	09/11/2012		251.0000	282.8482
Barium, total	ug/L	MW-8	03/26/2013		113.0000	282.8482
Barium, total	ug/L	MW-8	09/25/2013		165.0000	282.8482
Barium, total	ug/L	MW-8	03/20/2014		298.0000	282.8482
Barium, total	ug/L	MW-8	09/15/2014		81.0000	282.8482
Barium, total	ug/L	MW-8	03/06/2015		148.0000	282.8482
Barium, total	ug/L	MW-8	08/24/2015		150.0000	282.8482
Barium, total	ug/L	MW-8	03/01/2016		112.0000	282.8482
Barium, total	ug/L	MW-8	09/09/2016		206.0000	282.8482
Barium, total	ug/L	MW-8	03/22/2017		160.0000	282.8482
Barium, total	ug/L	MW-8	08/24/2017		155.0000	282.8482
Barium, total	ug/L	MW-8	02/26/2018		158.0000	282.8482
Barium, total	ug/L	MW-8	08/29/2018		198.0000	282.8482
Barium, total	ug/L	MW-8	03/18/2019		119.0000	282.8482
Barium, total	ug/L	MW-8	09/10/2019		180.0000	282.8482
Barium, total	ug/L	MW-8	03/25/2020		121.0000	282.8482
Barium, total	ug/L	MW-8	09/04/2020		169.0000	282.8482
Barium, total	ug/L	MW-8	03/02/2021		260.0000	282.8482
Barium, total	ug/L	MW-8	09/02/2021		208.0000	282.8482
Barium, total	ug/L	MW-8	03/02/2022		179.0000	282.8482
Barium, total	ug/L	MW-8	08/29/2022		300.0000	282.8482
Barium, total	ug/L	MW-8	03/23/2023		177.0000	282.8482
Barium, total	ug/L	MW-8	09/25/2023		198.0000	282.8482
Barium, total	ug/L	MW-8	03/05/2024		201.0000	282.8482
Barium, total	ug/L	MW-8	09/30/2024		264.0000	282.8482
Barium, total	ug/L	MW-8	03/06/2025		208.0000	282.8482
Barium, total	ug/L	MW-8	09/17/2025		305.0000	282.8482
Cobalt, total	ug/L	MW-10	03/26/2008	ND	20.0000	2.6000
Cobalt, total	ug/L	MW-10	05/06/2008		18.0000	2.6000
Cobalt, total	ug/L	MW-10	07/23/2008		10.0000	2.6000
Cobalt, total	ug/L	MW-10	09/30/2008		11.5000	2.6000
Cobalt, total	ug/L	MW-10	12/02/2008		12.1000	2.6000
Cobalt, total	ug/L	MW-10	03/05/2009		10.4000	2.6000
Cobalt, total	ug/L	MW-10	09/01/2009		12.2000	2.6000
Cobalt, total	ug/L	MW-10	03/23/2010		6.1000	2.6000
Cobalt, total	ug/L	MW-10	07/26/2010		11.9000	2.6000
Cobalt, total	ug/L	MW-10	09/09/2010		9.2000	2.6000
Cobalt, total	ug/L	MW-10	03/29/2011		8.5000	2.6000
Cobalt, total	ug/L	MW-10	09/13/2011		5.2000	2.6000
Cobalt, total	ug/L	MW-10	03/28/2012		4.5000	2.6000
Cobalt, total	ug/L	MW-10	09/11/2012		7.7000	2.6000
Cobalt, total	ug/L	MW-10	03/26/2013		8.3000	2.6000
Cobalt, total	ug/L	MW-10	09/25/2013		9.3000	2.6000
Cobalt, total	ug/L	MW-10	03/20/2014		11.0000	2.6000
Cobalt, total	ug/L	MW-10	09/15/2014		8.1000	2.6000
Cobalt, total	ug/L	MW-10	03/06/2015		6.0000	2.6000
Cobalt, total	ug/L	MW-10	08/24/2015		7.0000	2.6000
Cobalt, total	ug/L	MW-10	03/01/2016		4.9000	2.6000
Cobalt, total	ug/L	MW-10	09/09/2016		7.6000	2.6000
Cobalt, total	ug/L	MW-10	03/22/2017		8.0000	2.6000
Cobalt, total	ug/L	MW-10	08/24/2017		6.7000	2.6000
Cobalt, total	ug/L	MW-10	02/26/2018		8.5000	2.6000
Cobalt, total	ug/L	MW-10	08/29/2018		9.2000	2.6000
Cobalt, total	ug/L	MW-10	03/18/2019		3.9000	2.6000
Cobalt, total	ug/L	MW-10	09/10/2019		7.2000	2.6000
Cobalt, total	ug/L	MW-10	03/25/2020		8.7000	2.6000
Cobalt, total	ug/L	MW-10	09/04/2020		10.0000	2.6000
Cobalt, total	ug/L	MW-10	03/02/2021		7.4000	2.6000
Cobalt, total	ug/L	MW-10	09/02/2021		10.0000	2.6000
Cobalt, total	ug/L	MW-10	03/02/2022		2.5000	2.6000
Cobalt, total	ug/L	MW-10	08/29/2022		5.5000	2.6000
Cobalt, total	ug/L	MW-10	03/23/2023		1.7000	2.6000
Cobalt, total	ug/L	MW-10	09/25/2023		7.1000	2.6000
Cobalt, total	ug/L	MW-10	03/05/2024		5.7000	2.6000
Cobalt, total	ug/L	MW-10	09/30/2024		5.7000	2.6000
Cobalt, total	ug/L	MW-10	03/06/2025		2.5000	2.6000

* - 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
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Constituent	Units	Well	Date		Result		Pred. Limit
Cobalt, total	ug/L	MW-10	09/17/2025		6.3000	*	2.6000
Cobalt, total	ug/L	MW-34	03/29/2011	ND	4.0000		2.6000
Cobalt, total	ug/L	MW-34	09/13/2011		9.0000	*	2.6000
Cobalt, total	ug/L	MW-34	03/28/2012	ND	4.0000		2.6000
Cobalt, total	ug/L	MW-34	07/05/2012		5.3000	*	2.6000
Cobalt, total	ug/L	MW-34	09/11/2012		5.5000	*	2.6000
Cobalt, total	ug/L	MW-34	10/30/2012		6.1000	*	2.6000
Cobalt, total	ug/L	MW-34	03/26/2013	ND	4.0000		2.6000
Cobalt, total	ug/L	MW-34	09/25/2013		4.4000	*	2.6000
Cobalt, total	ug/L	MW-34	03/20/2014	ND	4.0000		2.6000
Cobalt, total	ug/L	MW-34	09/15/2014	ND	0.8000		2.6000
Cobalt, total	ug/L	MW-34	03/06/2015	ND	0.8000		2.6000
Cobalt, total	ug/L	MW-34	08/24/2015		2.1000		2.6000
Cobalt, total	ug/L	MW-34	03/01/2016		0.8000		2.6000
Cobalt, total	ug/L	MW-34	09/09/2016		0.8000		2.6000
Cobalt, total	ug/L	MW-34	03/22/2017	ND	0.8000		2.6000
Cobalt, total	ug/L	MW-34	08/24/2017		3.2000	*	2.6000
Cobalt, total	ug/L	MW-34	11/15/2017	ND	0.8000		2.6000
Cobalt, total	ug/L	MW-34	02/26/2018	ND	0.8000		2.6000
Cobalt, total	ug/L	MW-34	08/29/2018	ND	0.8000		2.6000
Cobalt, total	ug/L	MW-34	03/18/2019		1.9000		2.6000
Cobalt, total	ug/L	MW-34	09/10/2019		2.9000	*	2.6000
Cobalt, total	ug/L	MW-34	03/25/2020		2.0000		2.6000
Cobalt, total	ug/L	MW-34	09/04/2020		1.7000		2.6000
Cobalt, total	ug/L	MW-34	03/02/2021		2.3000		2.6000
Cobalt, total	ug/L	MW-34	09/02/2021		5.6000	*	2.6000
Cobalt, total	ug/L	MW-34	03/02/2022		0.5000		2.6000
Cobalt, total	ug/L	MW-34	08/29/2022		1.3000		2.6000
Cobalt, total	ug/L	MW-34	03/23/2023	ND	0.4000		2.6000
Cobalt, total	ug/L	MW-34	09/25/2023		1.6000		2.6000
Cobalt, total	ug/L	MW-34	03/05/2024		0.5000		2.6000
Cobalt, total	ug/L	MW-34	09/30/2024		5.4000	*	2.6000
Cobalt, total	ug/L	MW-34	03/06/2025	ND	0.4000		2.6000
Cobalt, total	ug/L	MW-34	09/17/2025		3.6000	*	2.6000
Nickel, total	ug/L	MW-10	03/26/2008		61.0000	*	4.0000
Nickel, total	ug/L	MW-10	05/06/2008		36.0000	*	4.0000
Nickel, total	ug/L	MW-10	07/23/2008		17.0000	*	4.0000
Nickel, total	ug/L	MW-10	09/30/2008		24.7000	*	4.0000
Nickel, total	ug/L	MW-10	12/02/2008		26.7000	*	4.0000
Nickel, total	ug/L	MW-10	03/05/2009		26.8000	*	4.0000
Nickel, total	ug/L	MW-10	09/01/2009		39.0000	*	4.0000
Nickel, total	ug/L	MW-10	03/23/2010		19.6000	*	4.0000
Nickel, total	ug/L	MW-10	07/26/2010		21.8000	*	4.0000
Nickel, total	ug/L	MW-10	09/09/2010		20.9000	*	4.0000
Nickel, total	ug/L	MW-10	03/29/2011		35.2000	*	4.0000
Nickel, total	ug/L	MW-10	09/13/2011		18.2000	*	4.0000
Nickel, total	ug/L	MW-10	03/28/2012		21.1000	*	4.0000
Nickel, total	ug/L	MW-10	09/11/2012		18.8000	*	4.0000
Nickel, total	ug/L	MW-10	03/26/2013		24.9000	*	4.0000
Nickel, total	ug/L	MW-10	09/25/2013		23.3000	*	4.0000
Nickel, total	ug/L	MW-10	03/20/2014		27.4000	*	4.0000
Nickel, total	ug/L	MW-10	09/15/2014		15.2000	*	4.0000
Nickel, total	ug/L	MW-10	03/06/2015		17.3000	*	4.0000
Nickel, total	ug/L	MW-10	08/24/2015		16.3000	*	4.0000
Nickel, total	ug/L	MW-10	03/01/2016		24.9000	*	4.0000
Nickel, total	ug/L	MW-10	09/09/2016		17.6000	*	4.0000
Nickel, total	ug/L	MW-10	03/22/2017		15.1000	*	4.0000
Nickel, total	ug/L	MW-10	08/24/2017		12.6000	*	4.0000
Nickel, total	ug/L	MW-10	02/26/2018		13.1000	*	4.0000
Nickel, total	ug/L	MW-10	08/29/2018		16.3000	*	4.0000
Nickel, total	ug/L	MW-10	03/18/2019		8.6000	*	4.0000
Nickel, total	ug/L	MW-10	09/10/2019		9.2000	*	4.0000
Nickel, total	ug/L	MW-10	03/25/2020		14.4000	*	4.0000
Nickel, total	ug/L	MW-10	09/04/2020		15.8000	*	4.0000
Nickel, total	ug/L	MW-10	03/02/2021		10.6000	*	4.0000
Nickel, total	ug/L	MW-10	09/02/2021		12.6000	*	4.0000
Nickel, total	ug/L	MW-10	03/02/2022		13.0000	*	4.0000
Nickel, total	ug/L	MW-10	08/29/2022		12.8000	*	4.0000
Nickel, total	ug/L	MW-10	03/23/2023		8.3000	*	4.0000
Nickel, total	ug/L	MW-10	09/25/2023		15.4000	*	4.0000
Nickel, total	ug/L	MW-10	03/05/2024		11.1000	*	4.0000

* - Significantly increased over background.

** - Detect at limit for 100% NDs in background (NPPL only).

*** - Manual exclusion.

ND = Not Detected, Result = detection limit.

Table 8

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Constituent	Units	Well	Date		Result		Pred. Limit
Nickel, total	ug/L	MW-10	09/30/2024		13.5000	*	4.0000
Nickel, total	ug/L	MW-10	03/06/2025		17.4000	*	4.0000
Nickel, total	ug/L	MW-10	09/17/2025		16.0000	*	4.0000
Nickel, total	ug/L	MW-34	03/29/2011		22.1000	*	4.0000
Nickel, total	ug/L	MW-34	05/04/2011		21.0000	*	4.0000
Nickel, total	ug/L	MW-34	09/13/2011		35.7000	*	4.0000
Nickel, total	ug/L	MW-34	03/28/2012		14.2000	*	4.0000
Nickel, total	ug/L	MW-34	07/05/2012		20.2000	*	4.0000
Nickel, total	ug/L	MW-34	09/11/2012		19.4000	*	4.0000
Nickel, total	ug/L	MW-34	10/30/2012		24.0000	*	4.0000
Nickel, total	ug/L	MW-34	03/26/2013		9.4000	*	4.0000
Nickel, total	ug/L	MW-34	09/25/2013		10.7000	*	4.0000
Nickel, total	ug/L	MW-34	03/20/2014		4.4000	*	4.0000
Nickel, total	ug/L	MW-34	09/15/2014	ND	4.0000	*	4.0000
Nickel, total	ug/L	MW-34	03/06/2015		5.5000	*	4.0000
Nickel, total	ug/L	MW-34	08/24/2015		14.7000	*	4.0000
Nickel, total	ug/L	MW-34	03/01/2016		9.6000	*	4.0000
Nickel, total	ug/L	MW-34	09/09/2016		7.9000	*	4.0000
Nickel, total	ug/L	MW-34	03/22/2017		5.0000	*	4.0000
Nickel, total	ug/L	MW-34	08/24/2017		14.7000	*	4.0000
Nickel, total	ug/L	MW-34	02/26/2018		8.2000	*	4.0000
Nickel, total	ug/L	MW-34	08/29/2018		4.3000	*	4.0000
Nickel, total	ug/L	MW-34	03/18/2019		9.2000	*	4.0000
Nickel, total	ug/L	MW-34	09/10/2019		12.0000	*	4.0000
Nickel, total	ug/L	MW-34	03/25/2020		5.4000	*	4.0000
Nickel, total	ug/L	MW-34	09/04/2020		11.3000	*	4.0000
Nickel, total	ug/L	MW-34	03/02/2021		8.9000	*	4.0000
Nickel, total	ug/L	MW-34	09/02/2021		13.9000	*	4.0000
Nickel, total	ug/L	MW-34	03/02/2022	ND	4.0000	*	4.0000
Nickel, total	ug/L	MW-34	08/29/2022		9.0000	*	4.0000
Nickel, total	ug/L	MW-34	03/23/2023	ND	4.0000	*	4.0000
Nickel, total	ug/L	MW-34	09/25/2023		10.0000	*	4.0000
Nickel, total	ug/L	MW-34	03/05/2024		7.6000	*	4.0000
Nickel, total	ug/L	MW-34	09/30/2024		15.9000	*	4.0000
Nickel, total	ug/L	MW-34	03/06/2025	ND	4.0000	*	4.0000
Nickel, total	ug/L	MW-34	09/17/2025		10.6000	*	4.0000
Nickel, total	ug/L	MW-3A	03/29/2011		8.3000	*	4.0000
Nickel, total	ug/L	MW-3A	09/13/2011		10.9000	*	4.0000
Nickel, total	ug/L	MW-3A	03/28/2012		7.5000	*	4.0000
Nickel, total	ug/L	MW-3A	07/05/2012		4.9000	*	4.0000
Nickel, total	ug/L	MW-3A	03/26/2013		4.5000	*	4.0000
Nickel, total	ug/L	MW-3A	09/25/2013		8.9000	*	4.0000
Nickel, total	ug/L	MW-3A	04/09/2014	ND	4.0000	*	4.0000
Nickel, total	ug/L	MW-3A	09/15/2014	ND	4.0000	*	4.0000
Nickel, total	ug/L	MW-3A	03/06/2015		5.0000	*	4.0000
Nickel, total	ug/L	MW-3A	08/24/2015		7.1000	*	4.0000
Nickel, total	ug/L	MW-3A	03/01/2016		7.9000	*	4.0000
Nickel, total	ug/L	MW-3A	09/09/2016	ND	4.0000	*	4.0000
Nickel, total	ug/L	MW-3A	03/22/2017	ND	4.0000	*	4.0000
Nickel, total	ug/L	MW-3A	08/24/2017	ND	4.0000	*	4.0000
Nickel, total	ug/L	MW-3A	02/26/2018		4.7000	*	4.0000
Nickel, total	ug/L	MW-3A	08/29/2018	ND	8.0000	*	4.0000
Nickel, total	ug/L	MW-3A	03/18/2019		4.8000	*	4.0000
Nickel, total	ug/L	MW-3A	09/10/2019		4.3000	*	4.0000
Nickel, total	ug/L	MW-3A	03/25/2020		4.5000	*	4.0000
Nickel, total	ug/L	MW-3A	09/04/2020	ND	4.0000	*	4.0000
Nickel, total	ug/L	MW-3A	03/02/2021	ND	4.0000	*	4.0000
Nickel, total	ug/L	MW-3A	09/02/2021	ND	4.0000	*	4.0000
Nickel, total	ug/L	MW-3A	03/02/2022	ND	4.0000	*	4.0000
Nickel, total	ug/L	MW-3A	08/29/2022	ND	4.0000	*	4.0000
Nickel, total	ug/L	MW-3A	03/23/2023	ND	4.0000	*	4.0000
Nickel, total	ug/L	MW-3A	03/05/2024		12.6000	*	4.0000
Nickel, total	ug/L	MW-3A	09/30/2024	ND	4.0000	*	4.0000
Nickel, total	ug/L	MW-3A	03/06/2025	ND	4.0000	*	4.0000
Nickel, total	ug/L	MW-3A	09/17/2025		5.1000	*	4.0000
Nickel, total	ug/L	MW-8	03/26/2008		9.0000	*	4.0000
Nickel, total	ug/L	MW-8	05/06/2008		5.0000	*	4.0000
Nickel, total	ug/L	MW-8	07/23/2008		20.0000	*	4.0000
Nickel, total	ug/L	MW-8	09/30/2008		25.7000	*	4.0000
Nickel, total	ug/L	MW-8	12/02/2008		30.3000	*	4.0000
Nickel, total	ug/L	MW-8	03/05/2009		15.4000	*	4.0000

* - 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
Nickel, total	ug/L	MW-8	09/01/2009		21.2000	*	4.0000
Nickel, total	ug/L	MW-8	03/23/2010		16.8000	*	4.0000
Nickel, total	ug/L	MW-8	09/09/2010		19.6000	*	4.0000
Nickel, total	ug/L	MW-8	03/29/2011		20.2000	*	4.0000
Nickel, total	ug/L	MW-8	09/13/2011		19.8000	*	4.0000
Nickel, total	ug/L	MW-8	03/28/2012		14.9000	*	4.0000
Nickel, total	ug/L	MW-8	09/11/2012		23.3000	*	4.0000
Nickel, total	ug/L	MW-8	03/26/2013		10.2000	*	4.0000
Nickel, total	ug/L	MW-8	09/25/2013		10.6000	*	4.0000
Nickel, total	ug/L	MW-8	03/20/2014		30.3000	*	4.0000
Nickel, total	ug/L	MW-8	09/15/2014	ND	4.0000	*	4.0000
Nickel, total	ug/L	MW-8	03/06/2015		5.0000	*	4.0000
Nickel, total	ug/L	MW-8	08/24/2015		6.9000	*	4.0000
Nickel, total	ug/L	MW-8	03/01/2016		5.4000	*	4.0000
Nickel, total	ug/L	MW-8	09/09/2016		17.4000	*	4.0000
Nickel, total	ug/L	MW-8	10/31/2016		9.8000	*	4.0000
Nickel, total	ug/L	MW-8	03/22/2017		5.5000	*	4.0000
Nickel, total	ug/L	MW-8	08/24/2017		13.7000	*	4.0000
Nickel, total	ug/L	MW-8	02/26/2018		7.6000	*	4.0000
Nickel, total	ug/L	MW-8	08/29/2018		11.8000	*	4.0000
Nickel, total	ug/L	MW-8	03/18/2019		4.7000	*	4.0000
Nickel, total	ug/L	MW-8	09/10/2019		14.9000	*	4.0000
Nickel, total	ug/L	MW-8	03/25/2020	ND	4.0000	*	4.0000
Nickel, total	ug/L	MW-8	09/04/2020		9.2000	*	4.0000
Nickel, total	ug/L	MW-8	03/02/2021		6.0000	*	4.0000
Nickel, total	ug/L	MW-8	09/02/2021		13.2000	*	4.0000
Nickel, total	ug/L	MW-8	03/02/2022		4.2000	*	4.0000
Nickel, total	ug/L	MW-8	08/29/2022		13.5000	*	4.0000
Nickel, total	ug/L	MW-8	03/23/2023	ND	4.0000	*	4.0000
Nickel, total	ug/L	MW-8	09/25/2023		15.2000	*	4.0000
Nickel, total	ug/L	MW-8	03/05/2024		5.5000	*	4.0000
Nickel, total	ug/L	MW-8	09/30/2024		13.3000	*	4.0000
Nickel, total	ug/L	MW-8	03/06/2025		5.4000	*	4.0000
Nickel, total	ug/L	MW-8	09/17/2025		9.8000	*	4.0000

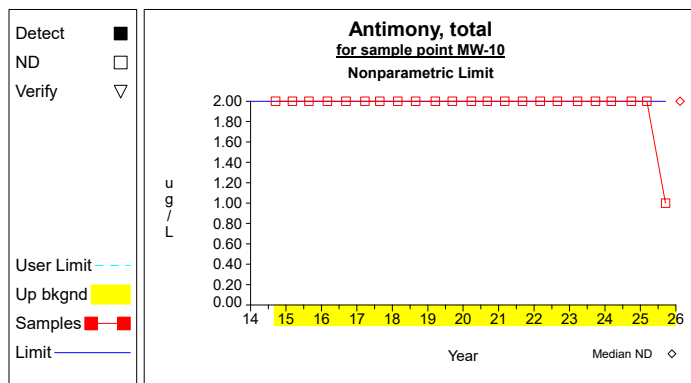
* - Significantly increased over background.

** - Detect at limit for 100% NDs in background (NPPL only).

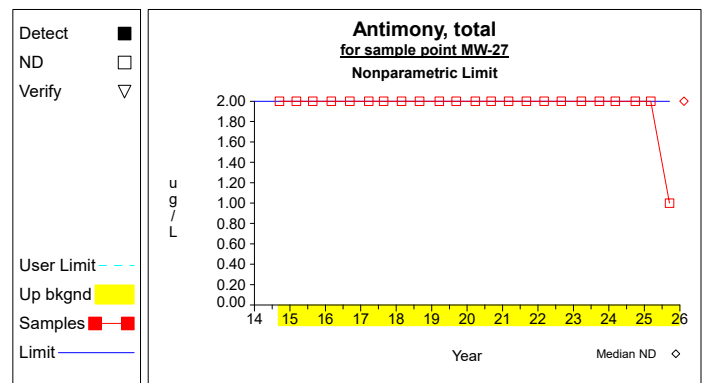
*** - Manual exclusion.

ND = Not Detected, Result = detection limit.

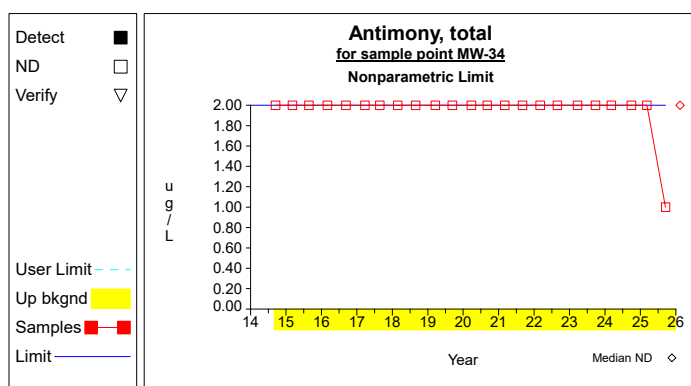
Up vs. Down Prediction Limits



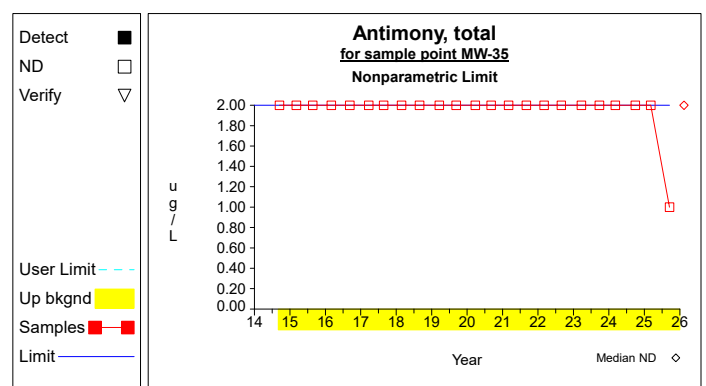
Graph 1



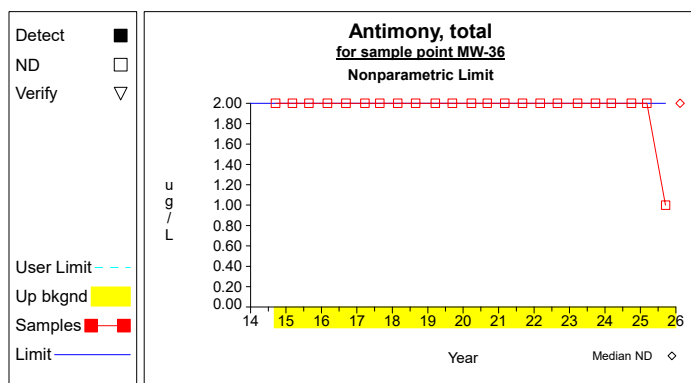
Graph 2



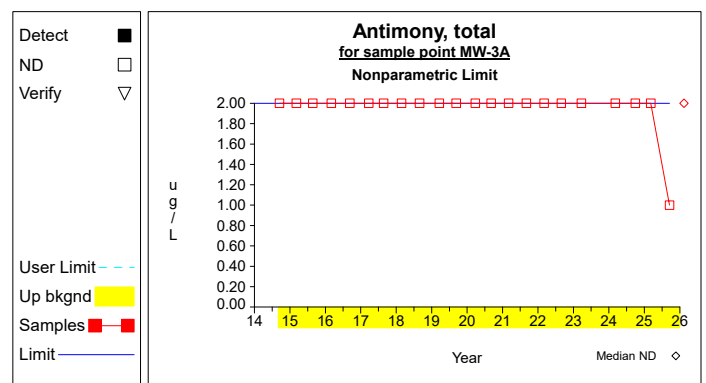
Graph 3



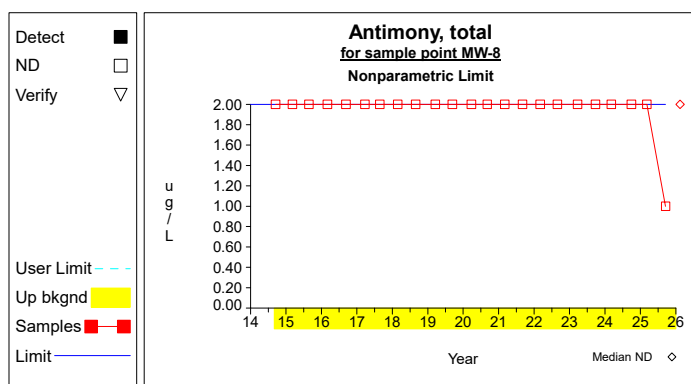
Graph 4



Graph 5

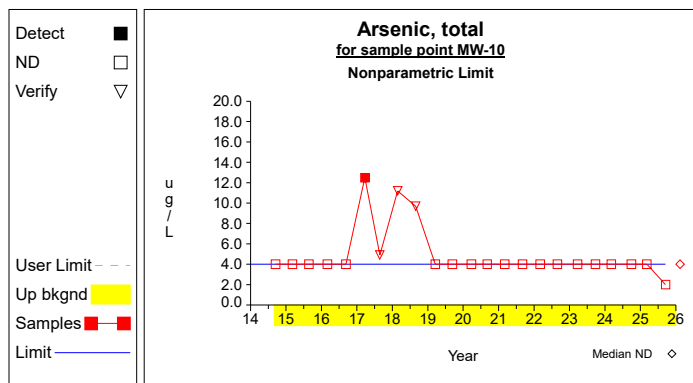


Graph 6

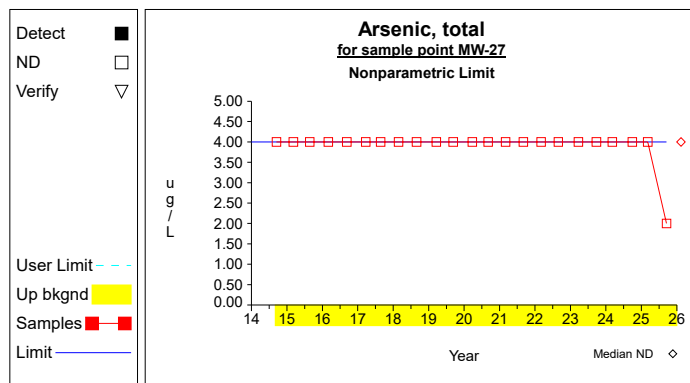


Graph 7

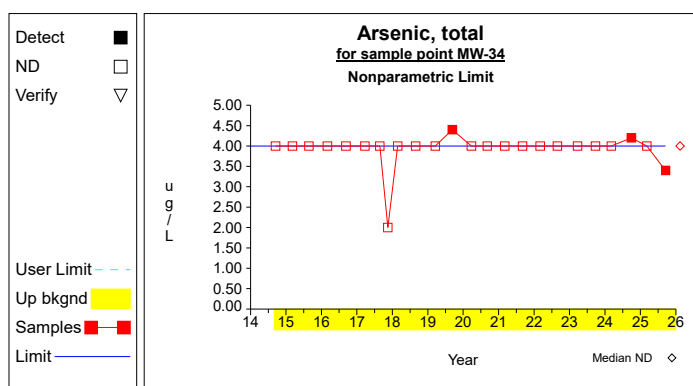
Up vs. Down Prediction Limits



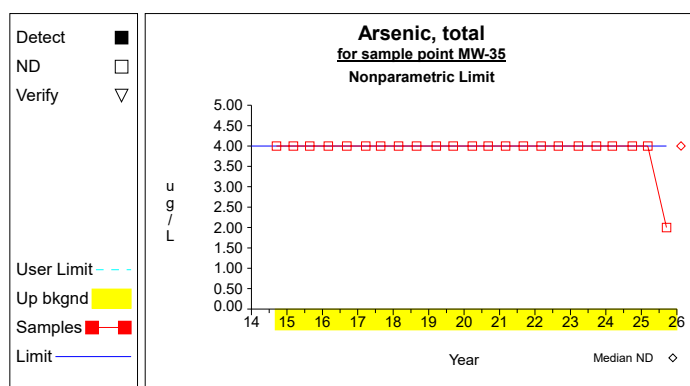
Graph 8



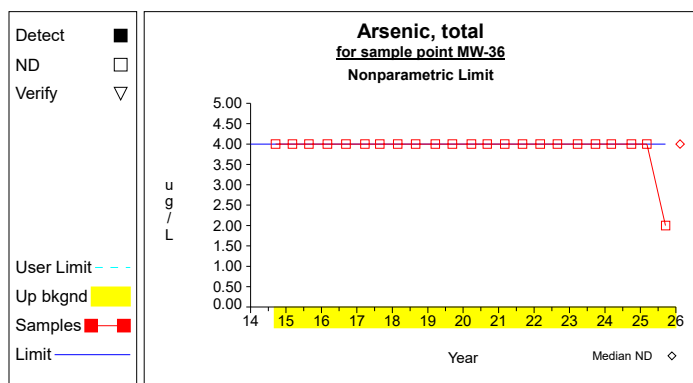
Graph 9



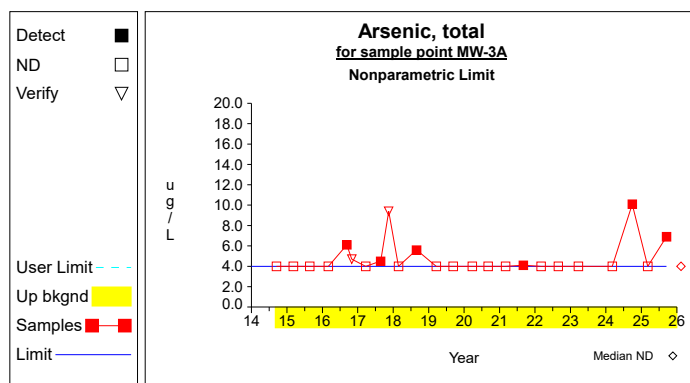
Graph 10



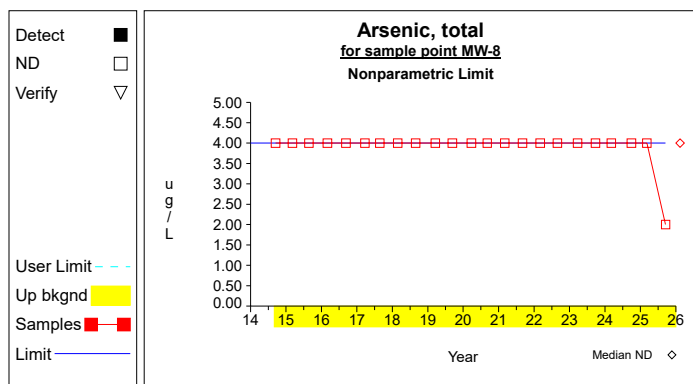
Graph 11



Graph 12

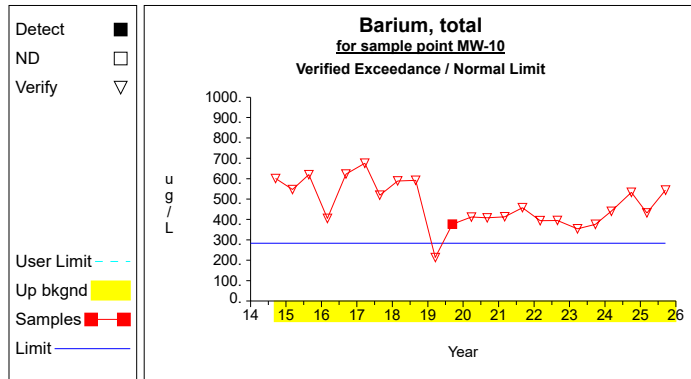


Graph 13

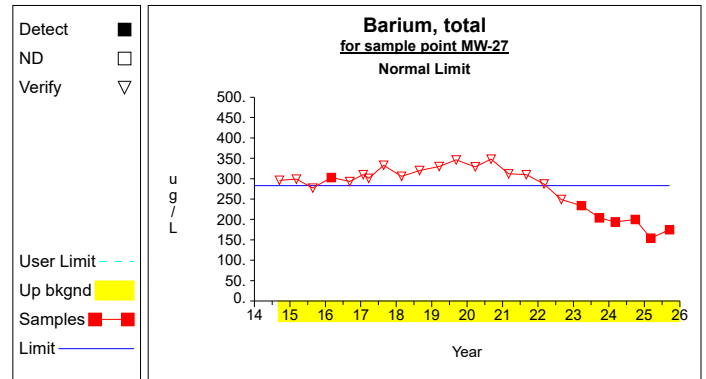


Graph 14

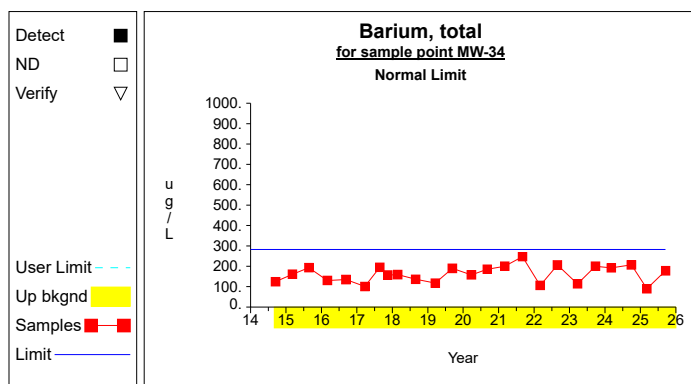
Up vs. Down Prediction Limits



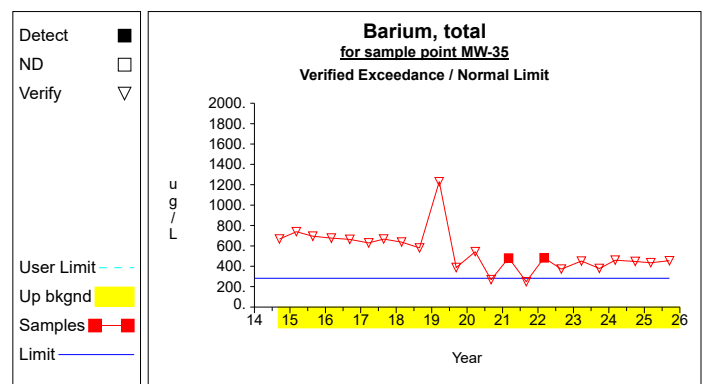
Graph 15



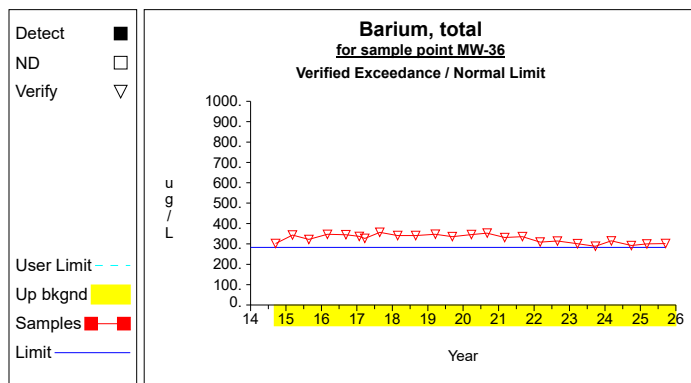
Graph 16



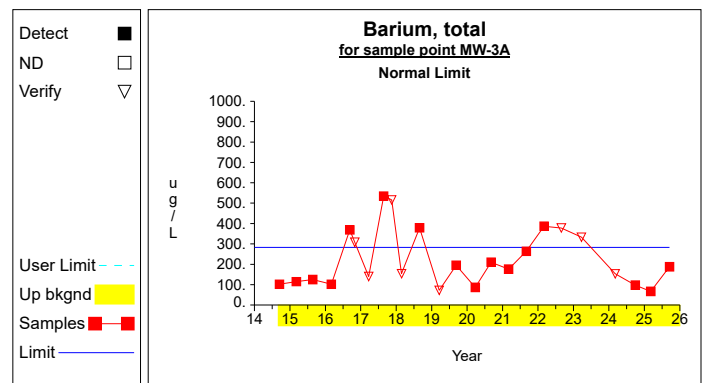
Graph 17



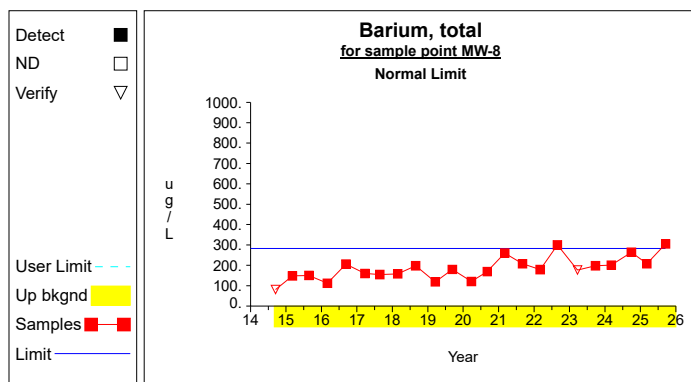
Graph 18



Graph 19

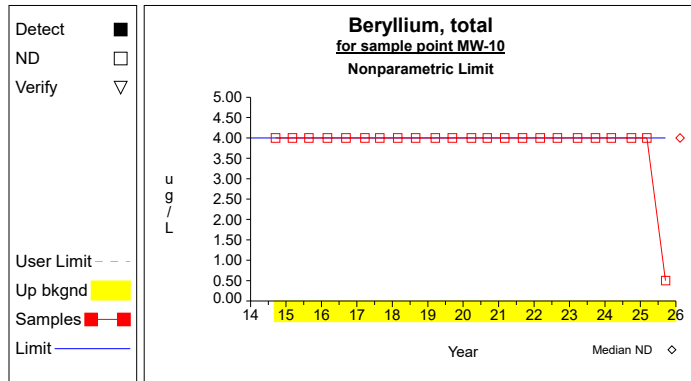


Graph 20

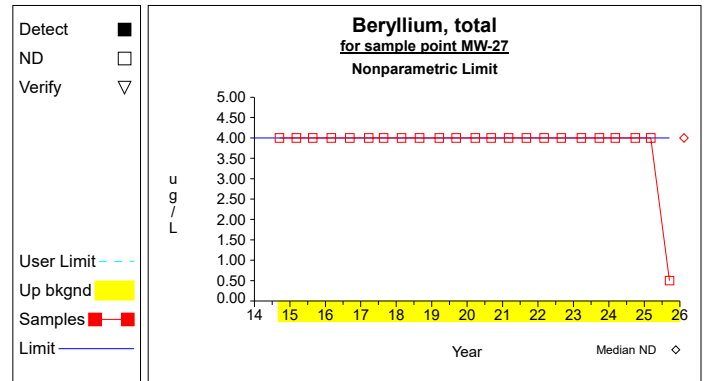


Graph 21

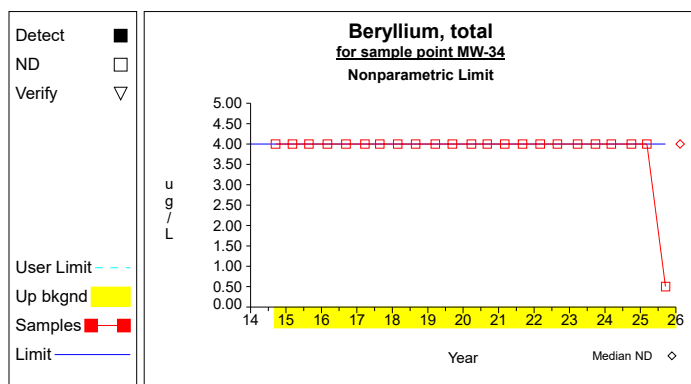
Up vs. Down Prediction Limits



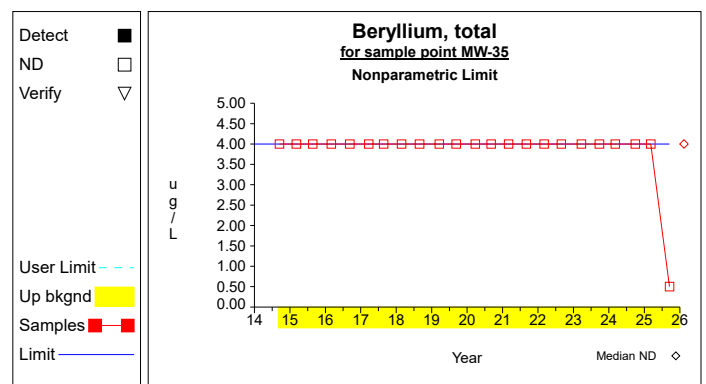
Graph 22



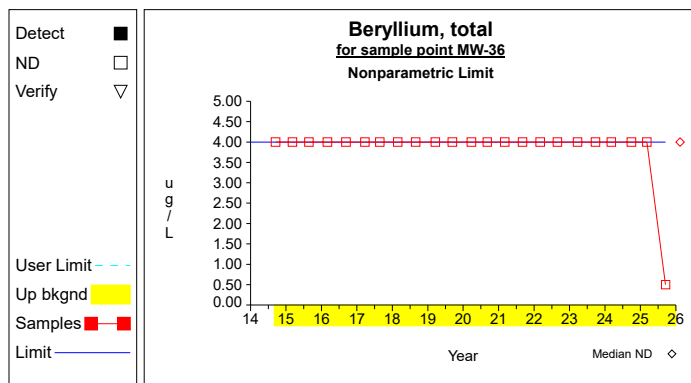
Graph 23



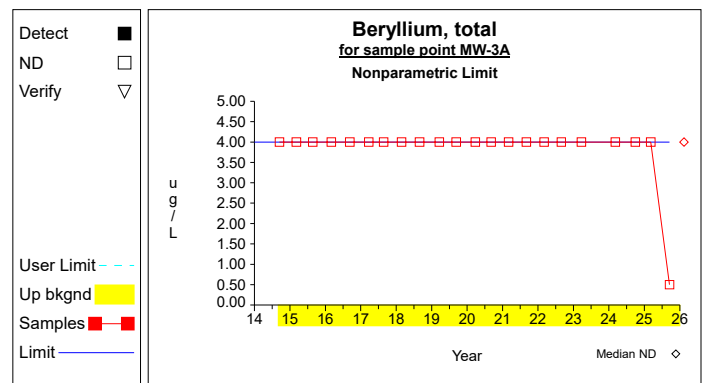
Graph 24



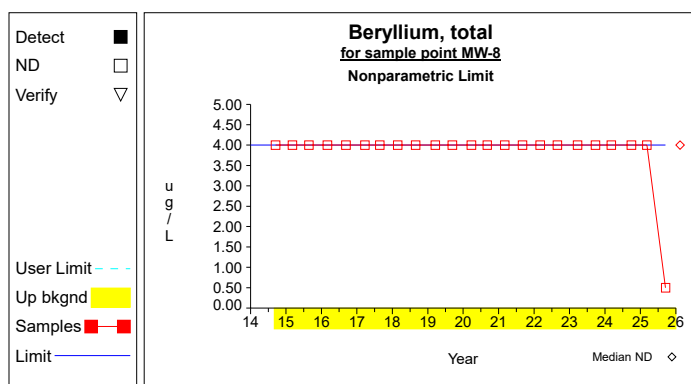
Graph 25



Graph 26

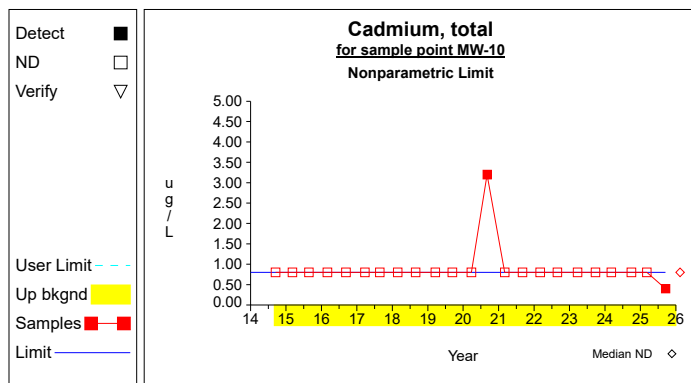


Graph 27

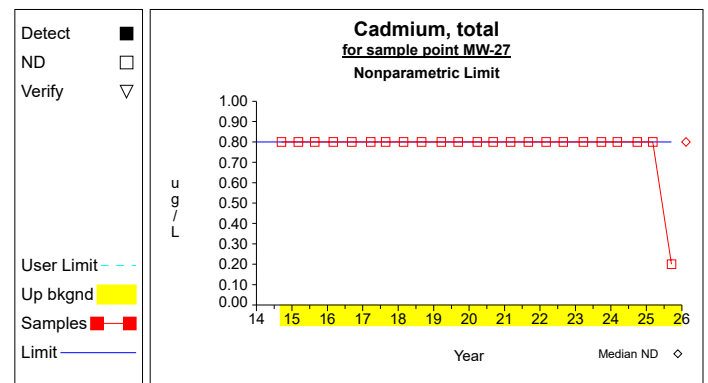


Graph 28

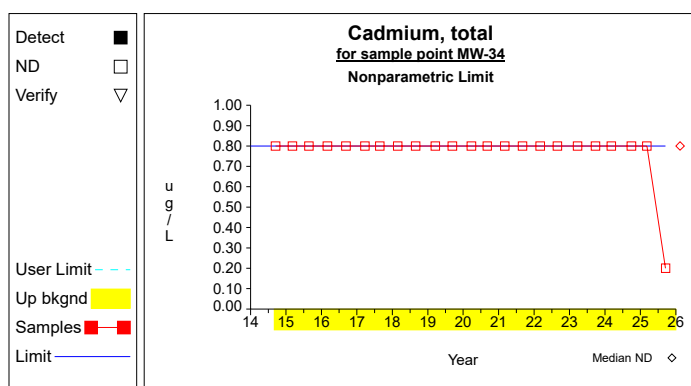
Up vs. Down Prediction Limits



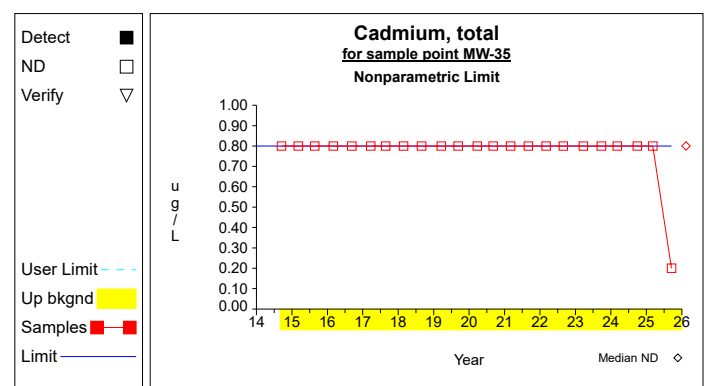
Graph 29



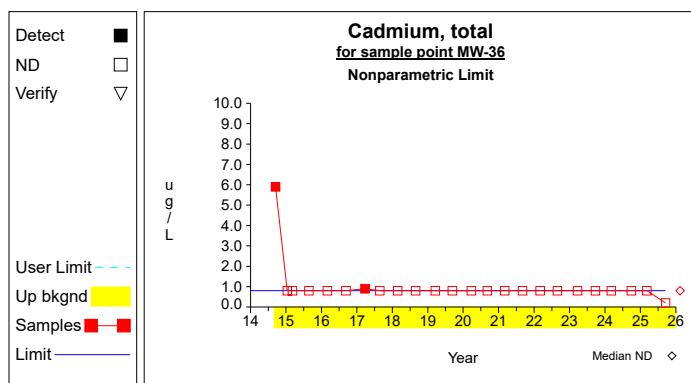
Graph 30



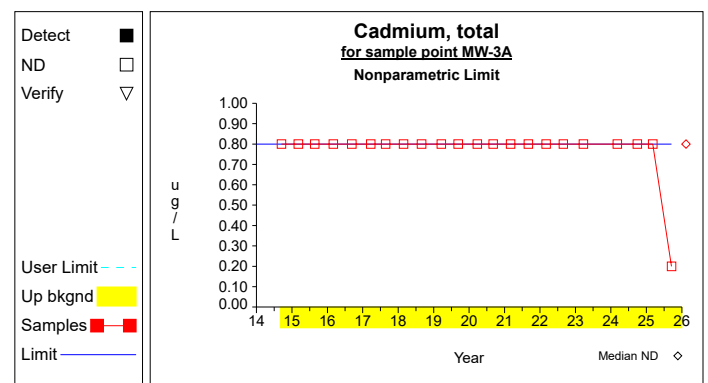
Graph 31



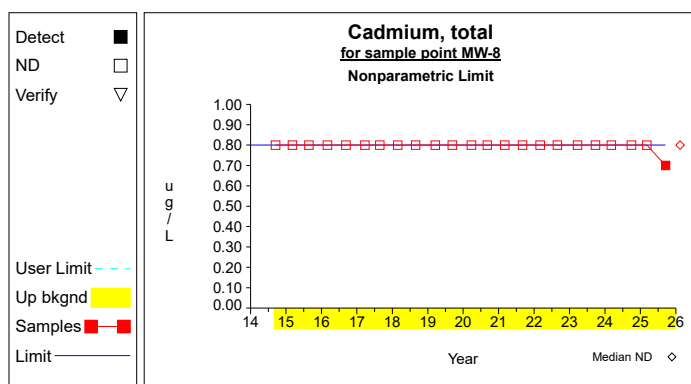
Graph 32



Graph 33

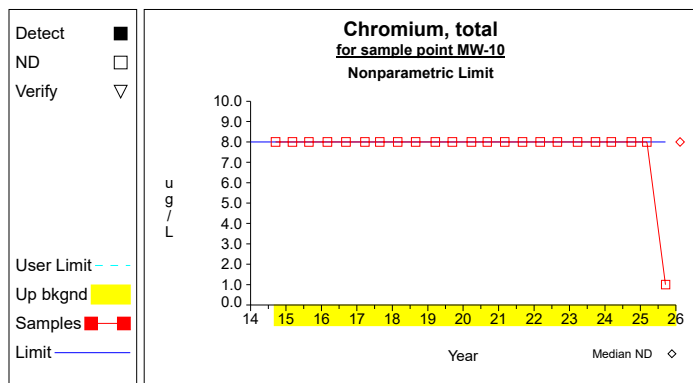


Graph 34

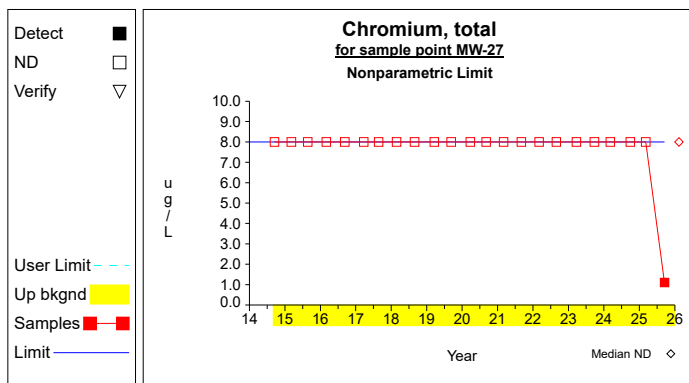


Graph 35

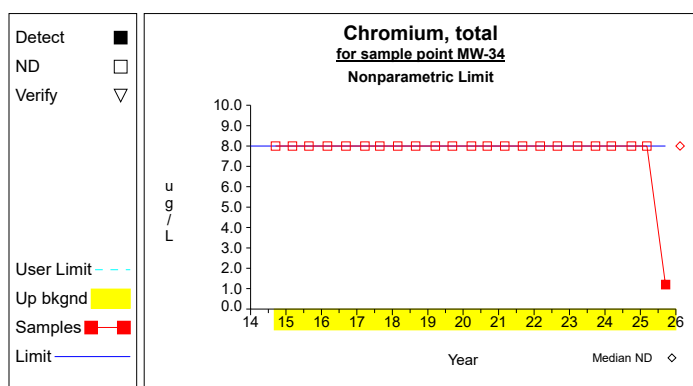
Up vs. Down Prediction Limits



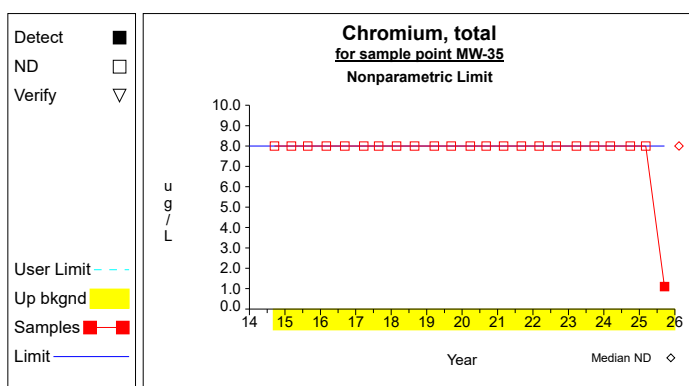
Graph 36



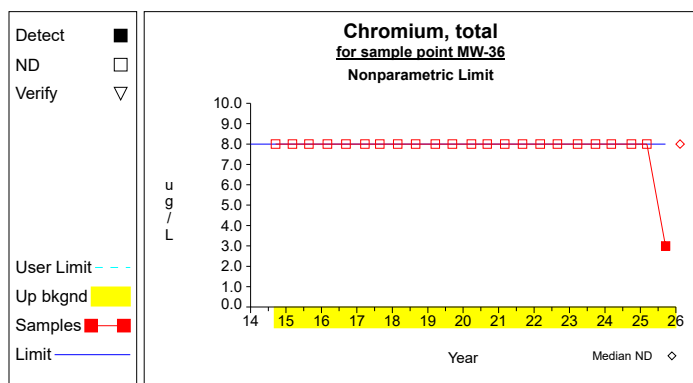
Graph 37



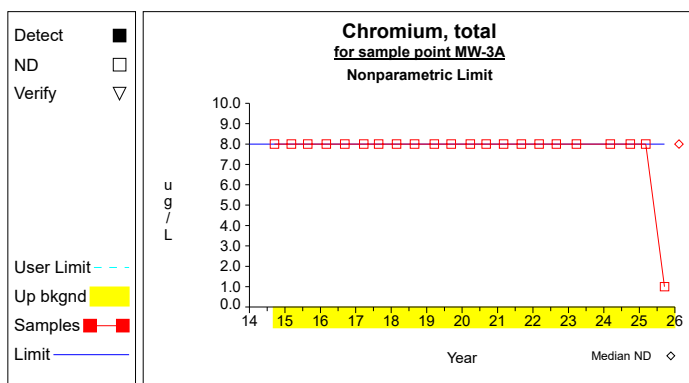
Graph 38



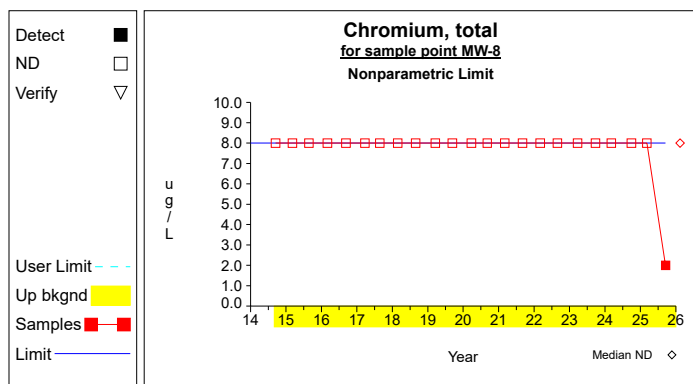
Graph 39



Graph 40



Graph 41



Graph 42

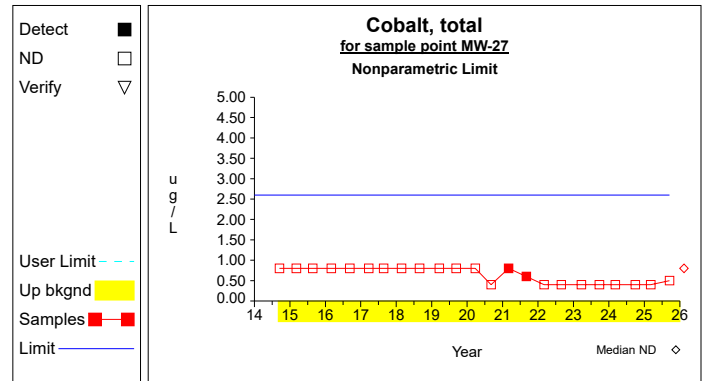
Cobalt, total
for sample point MW-10
Nonparametric Limit

Legend:

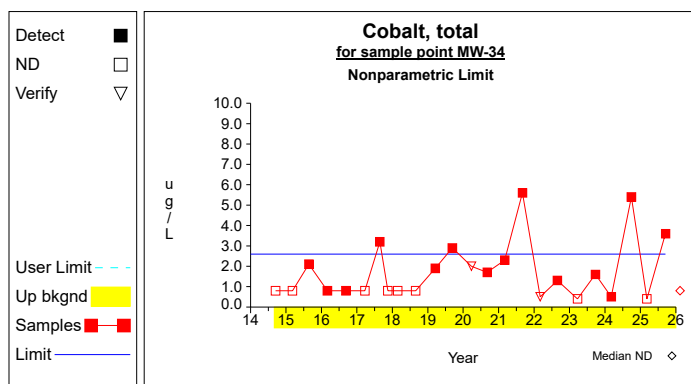
- Detect: ■
- ND: □
- Verify: ▽
- User Limit: ---
- Up bkgnd:
- Samples: ■ — ■
- Limit: —

Year	Cobalt (ug/L)
15	8.5
16	6.5
17	8.0
18	7.5
19	9.5
20	8.0
21	10.5
22	7.5
23	2.5
24	7.0
25	5.5
26	6.5

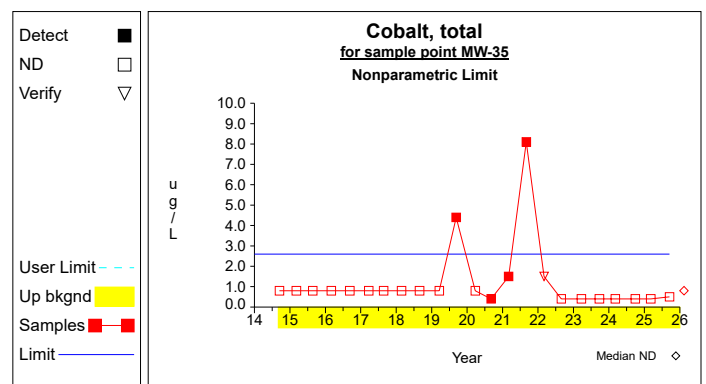
Graph 43



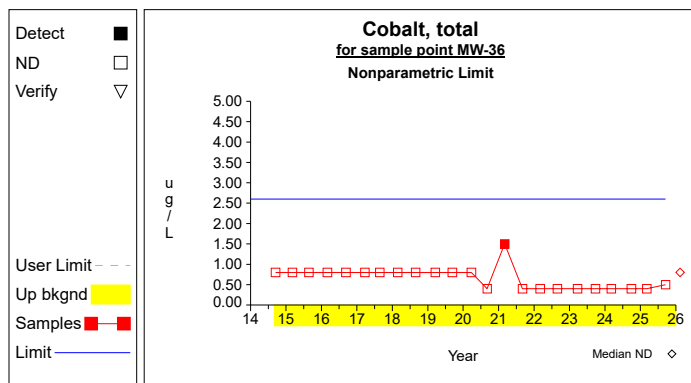
Graph 44



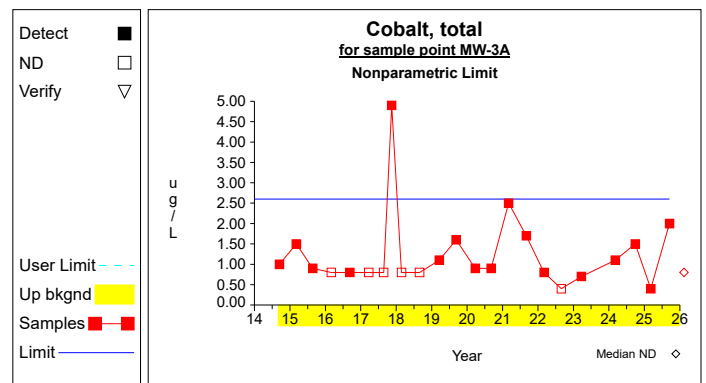
Graph 45



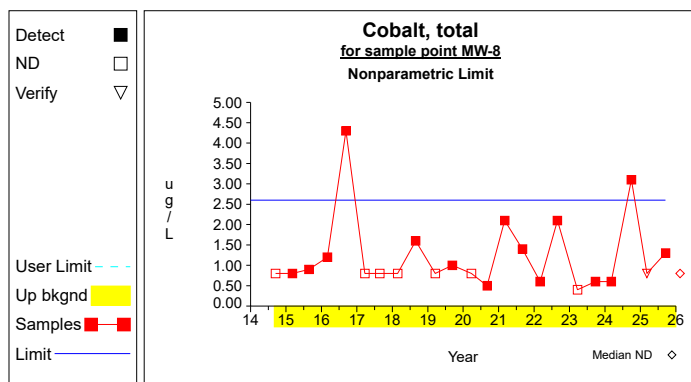
Graph 46



Graph 47

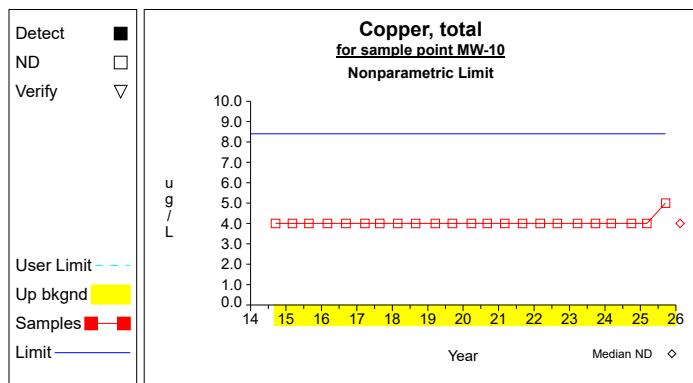


Graph 48

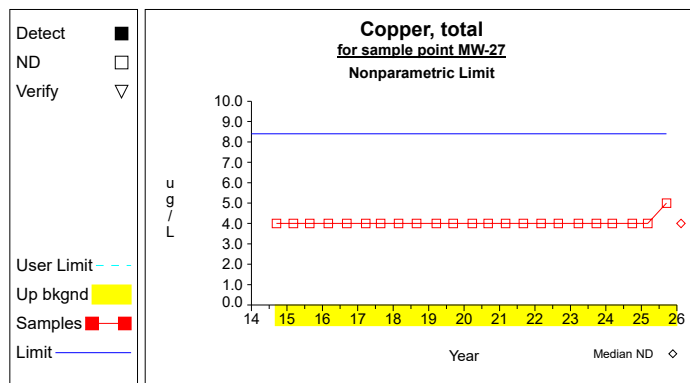


Graph 49

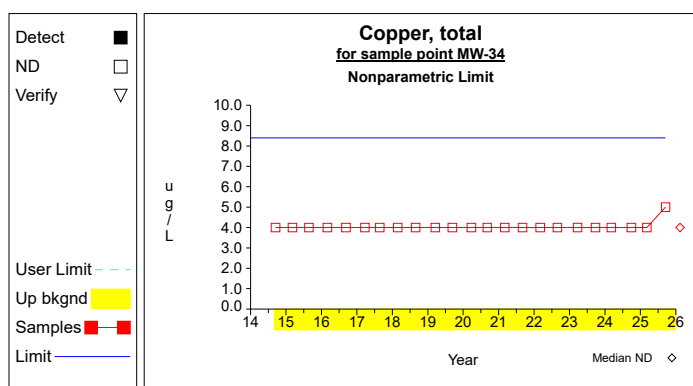
Up vs. Down Prediction Limits



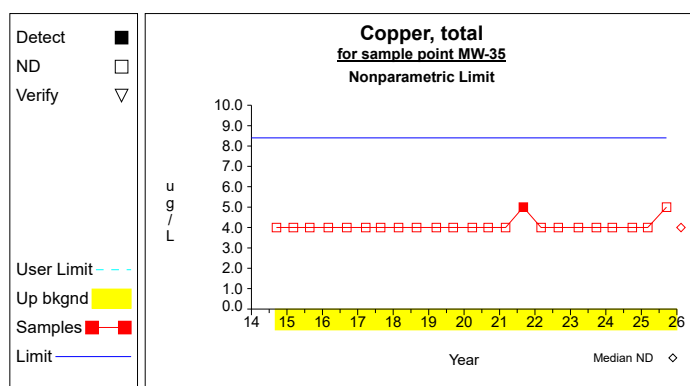
Graph 50



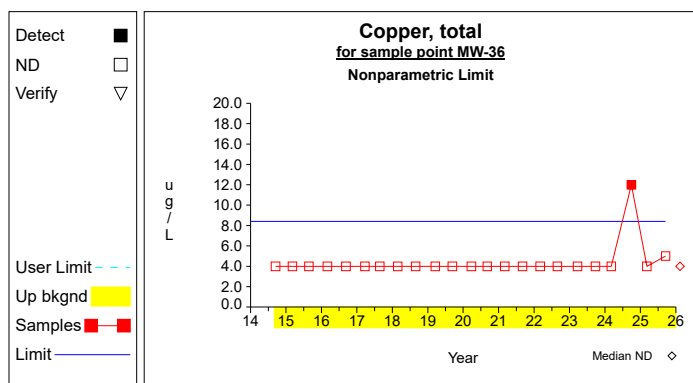
Graph 51



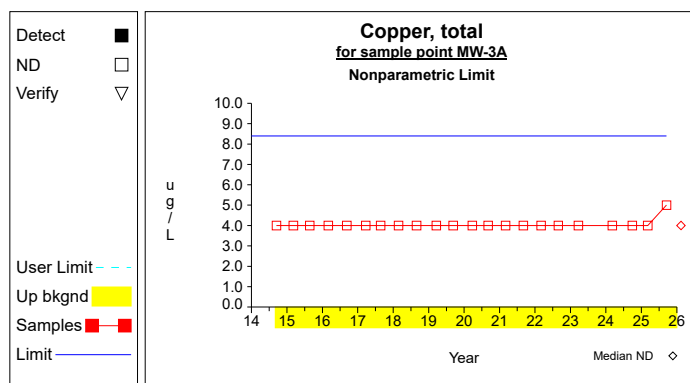
Graph 52



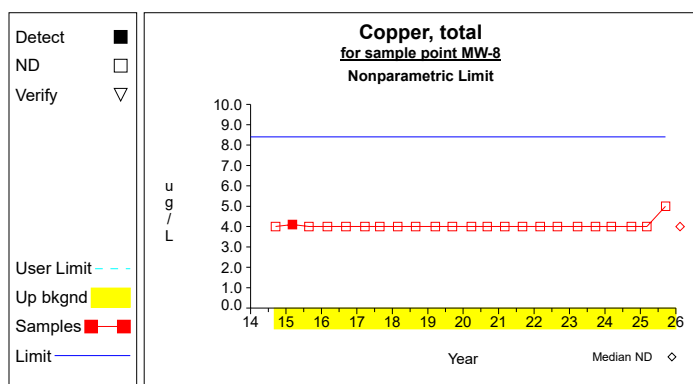
Graph 53



Graph 54

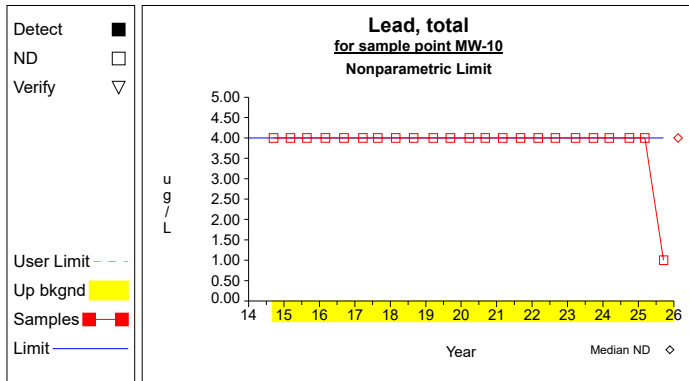


Graph 55

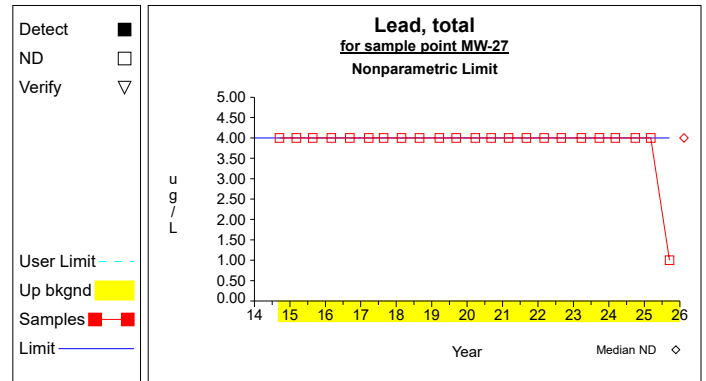


Graph 56

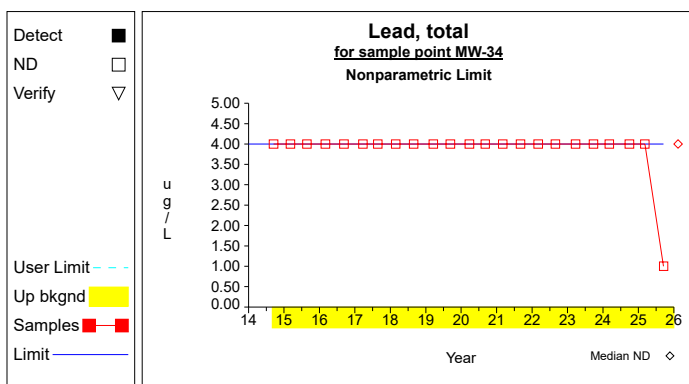
Up vs. Down Prediction Limits



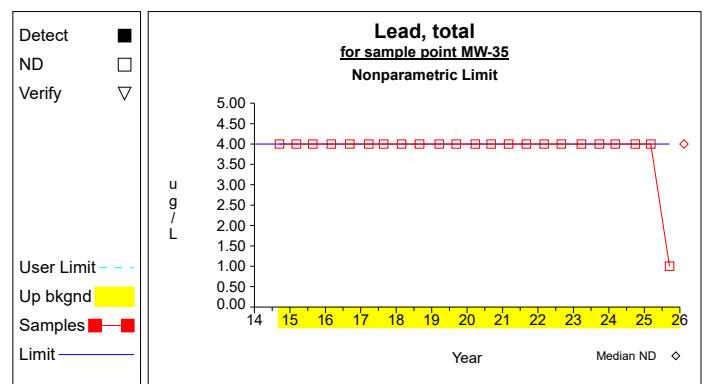
Graph 57



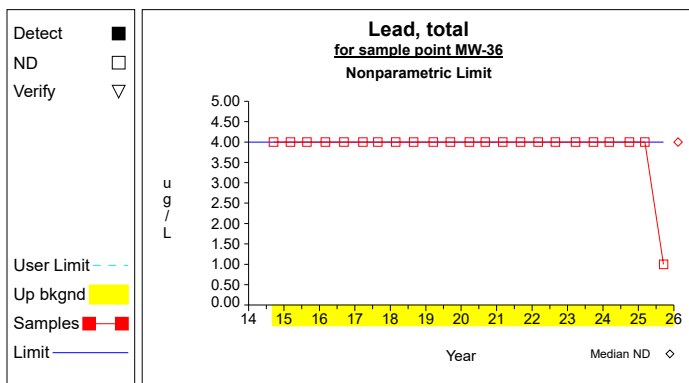
Graph 58



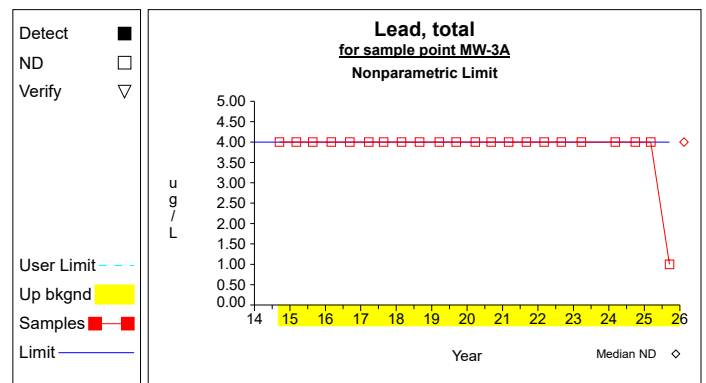
Graph 59



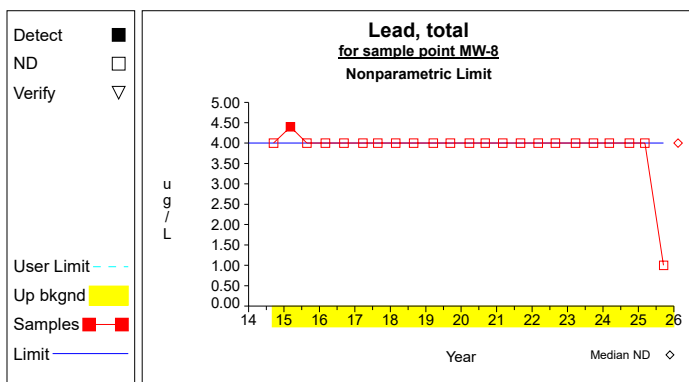
Graph 60



Graph 61

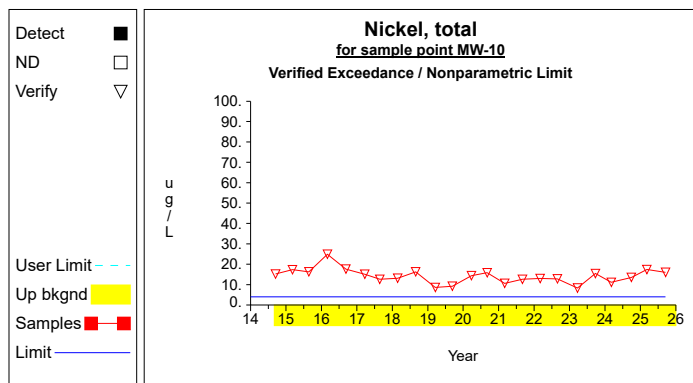


Graph 62

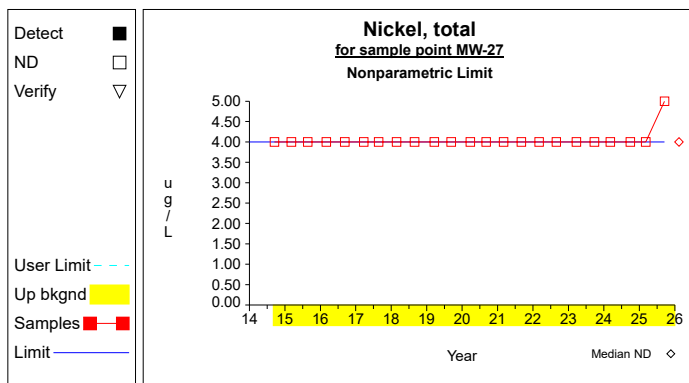


Graph 63

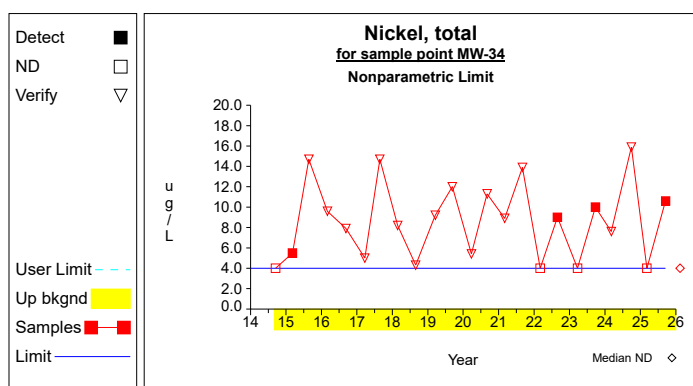
Up vs. Down Prediction Limits



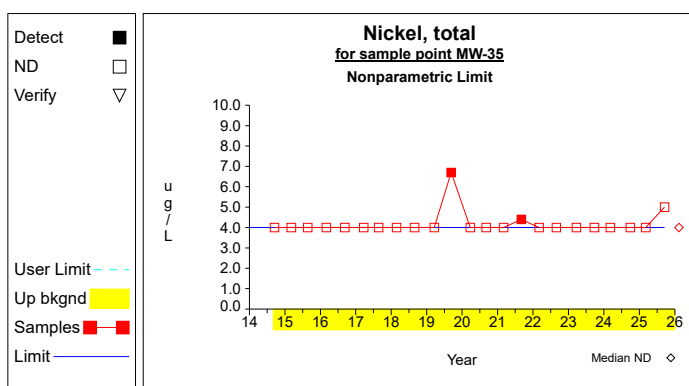
Graph 64



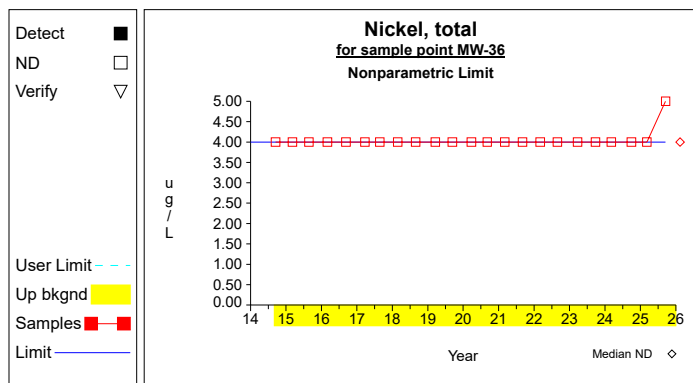
Graph 65



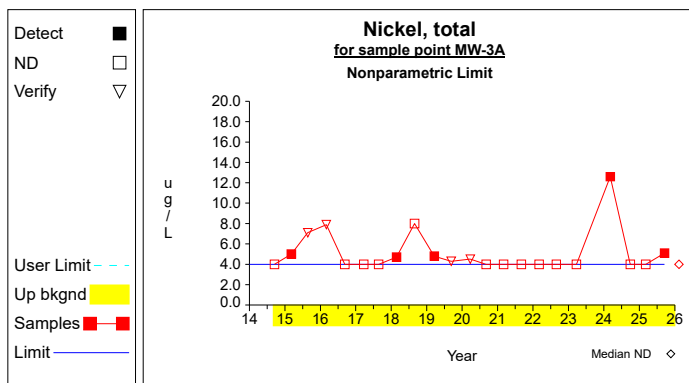
Graph 66



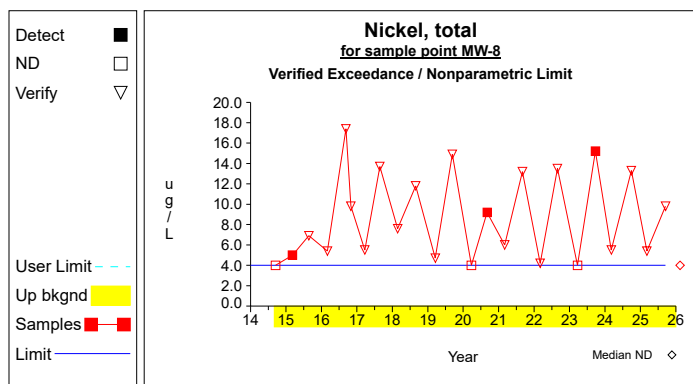
Graph 67



Graph 68

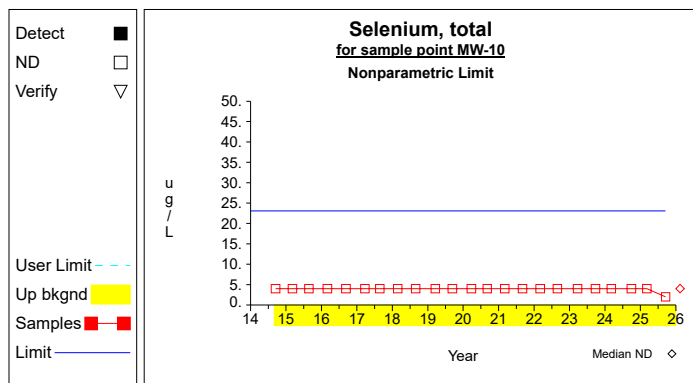


Graph 69

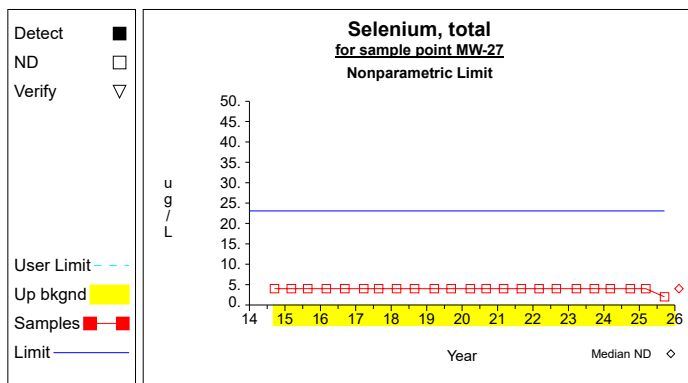


Graph 70

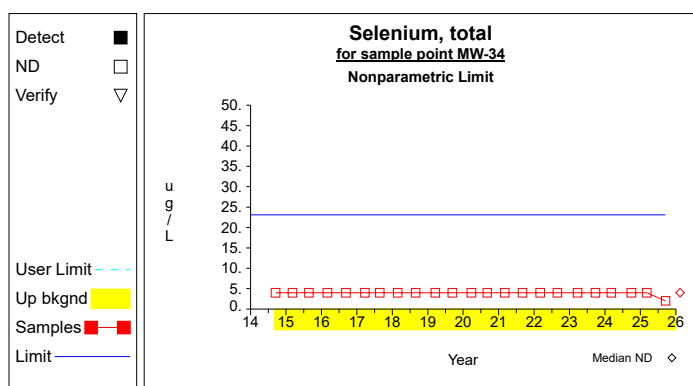
Up vs. Down Prediction Limits



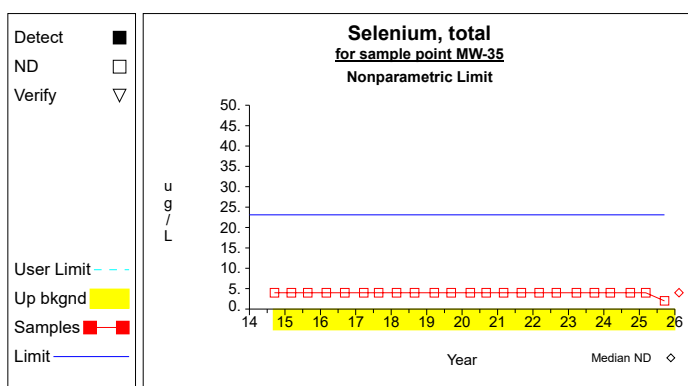
Graph 71



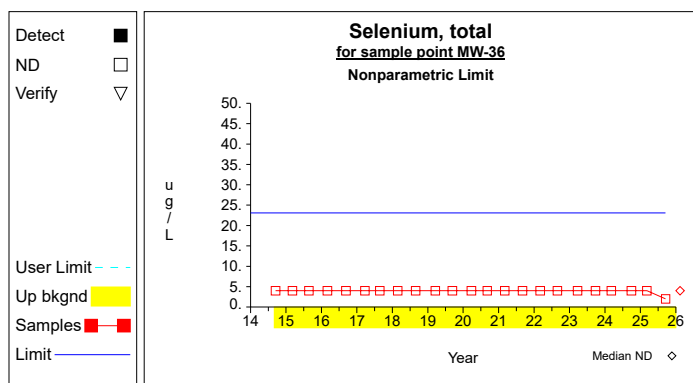
Graph 72



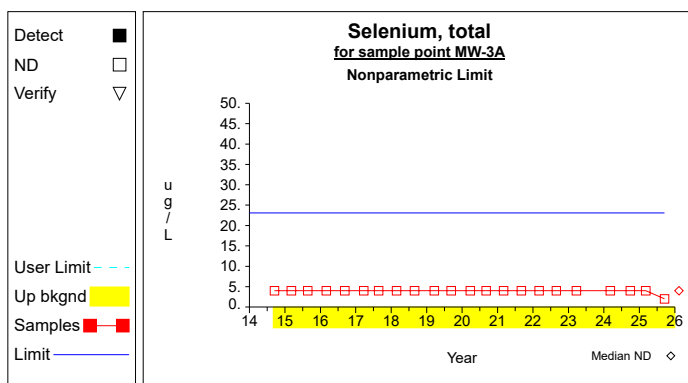
Graph 73



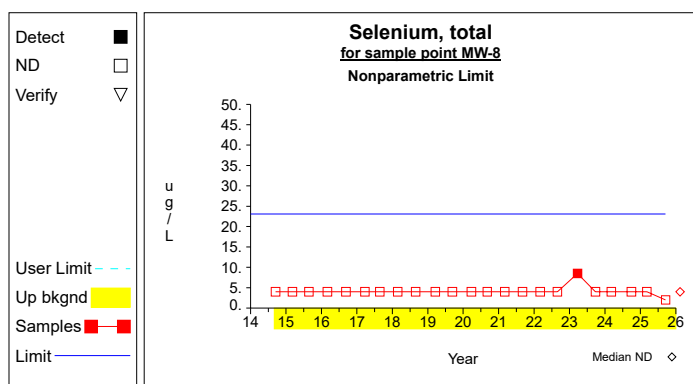
Graph 74



Graph 75

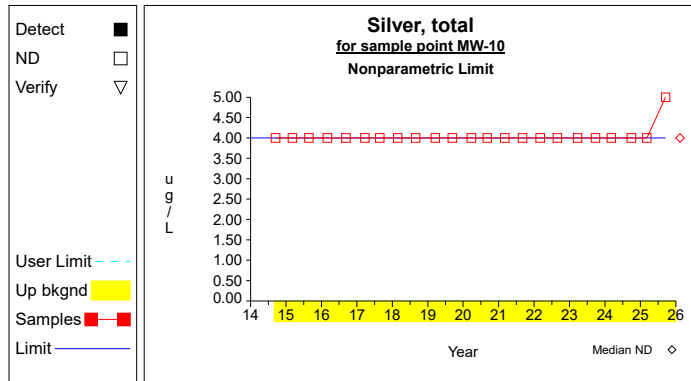


Graph 76

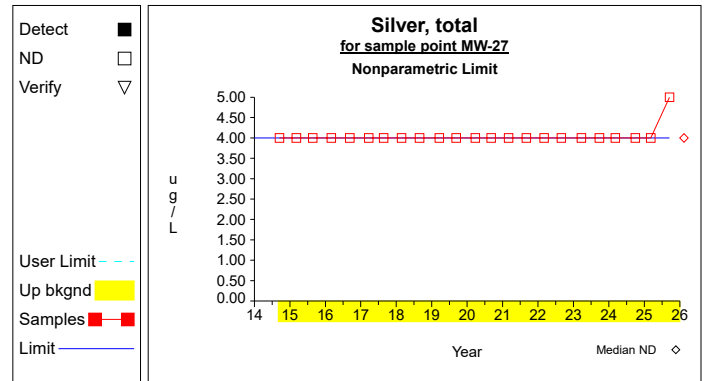


Graph 77

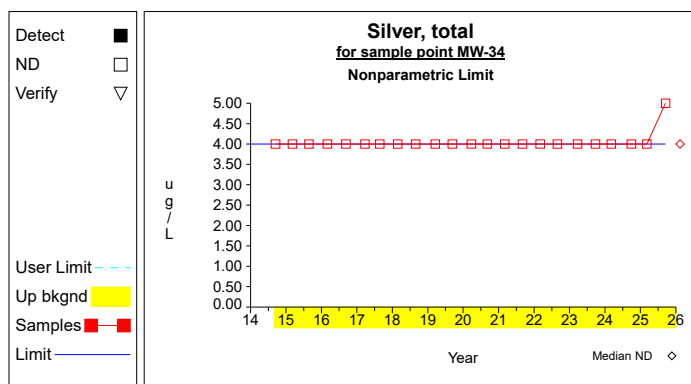
Up vs. Down Prediction Limits



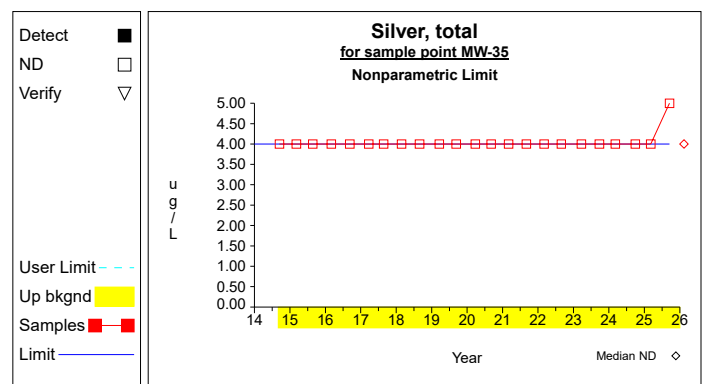
Graph 78



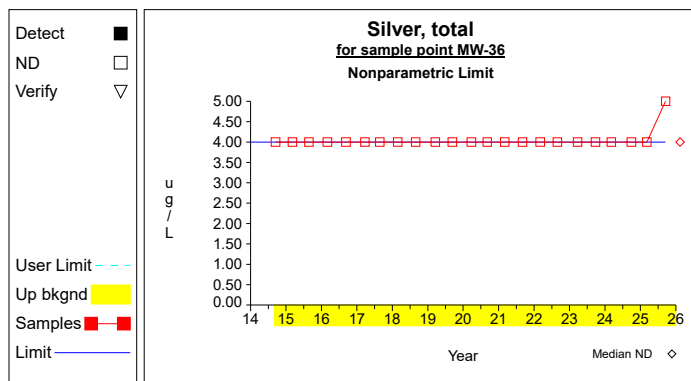
Graph 79



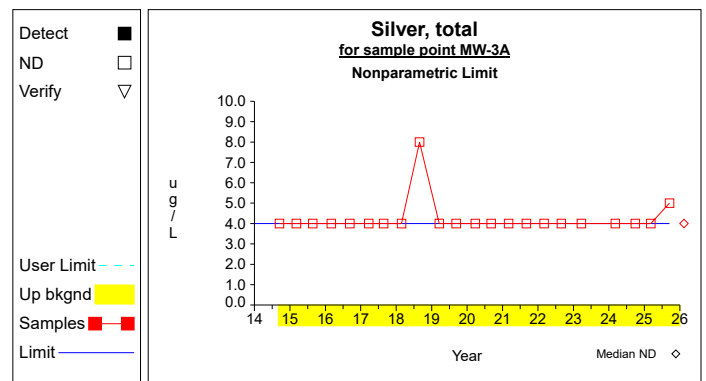
Graph 80



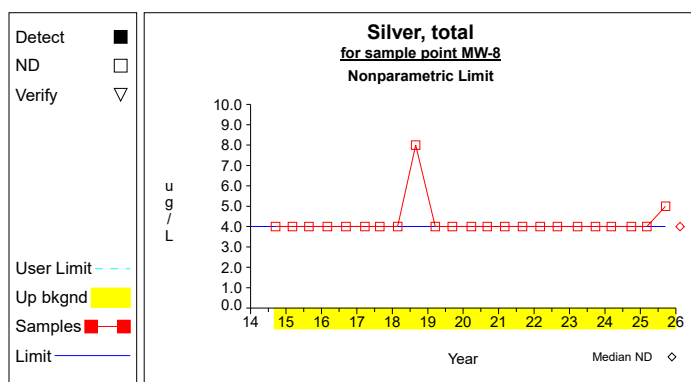
Graph 81



Graph 82

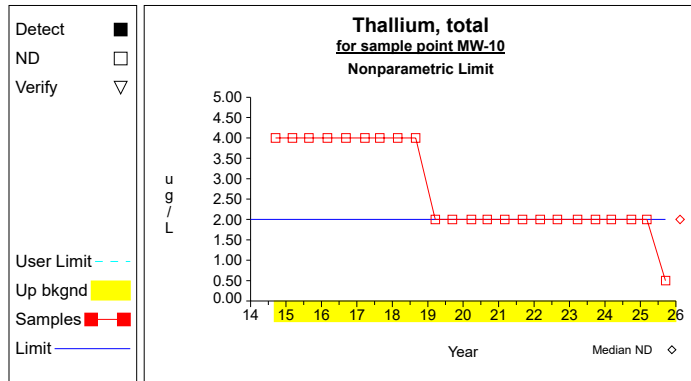


Graph 83

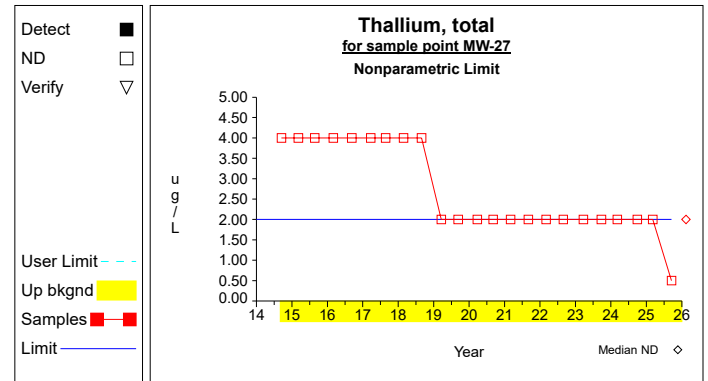


Graph 84

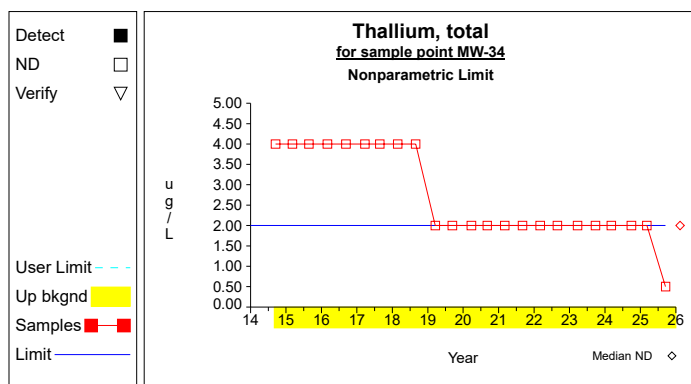
Up vs. Down Prediction Limits



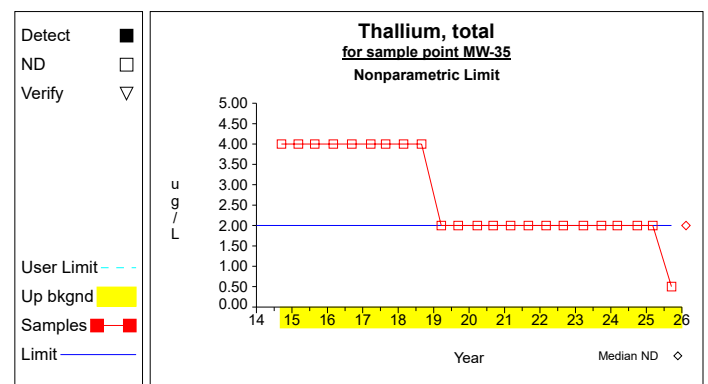
Graph 85



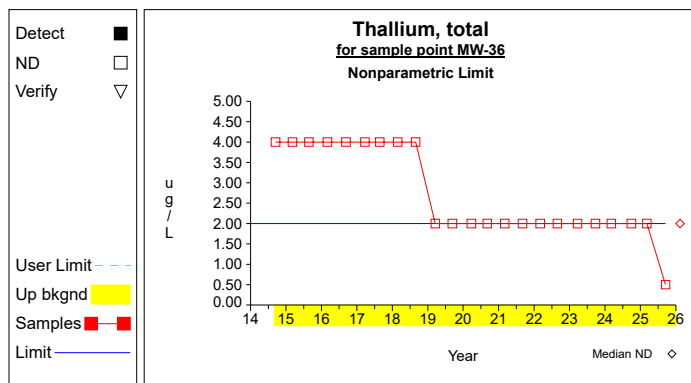
Graph 86



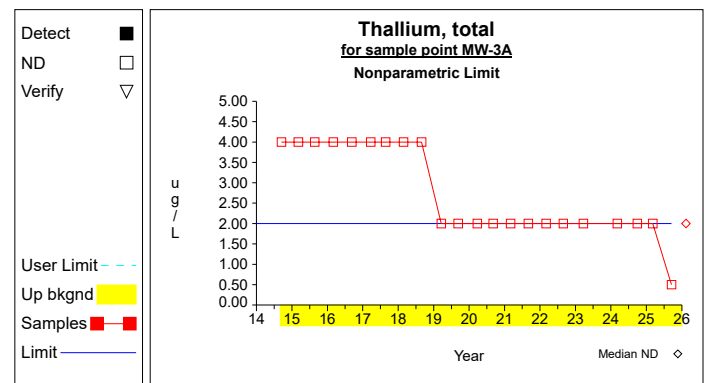
Graph 87



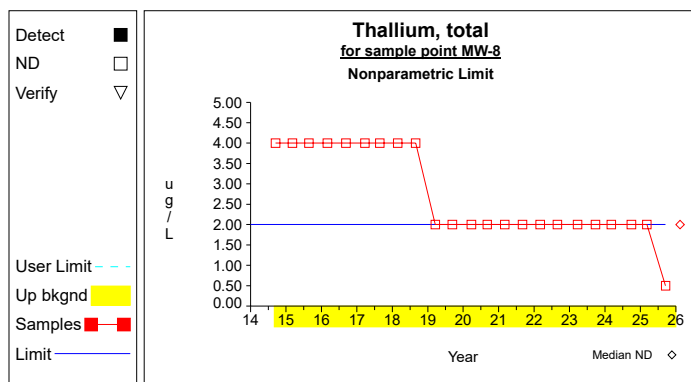
Graph 88



Graph 89

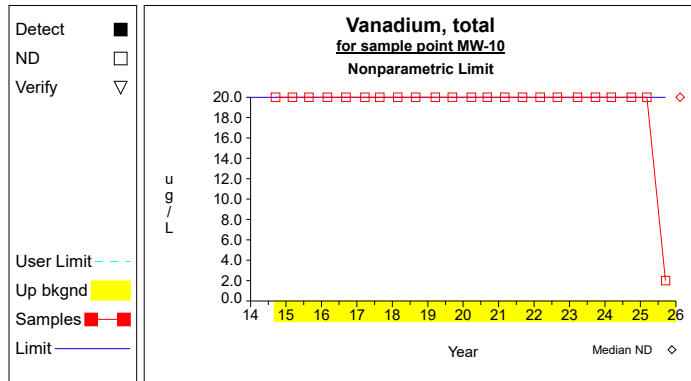


Graph 90

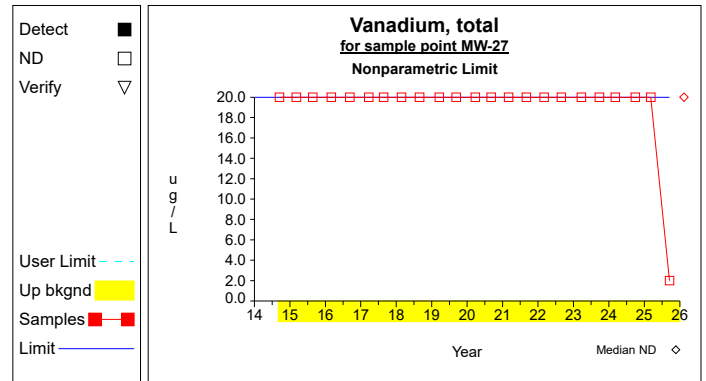


Graph 91

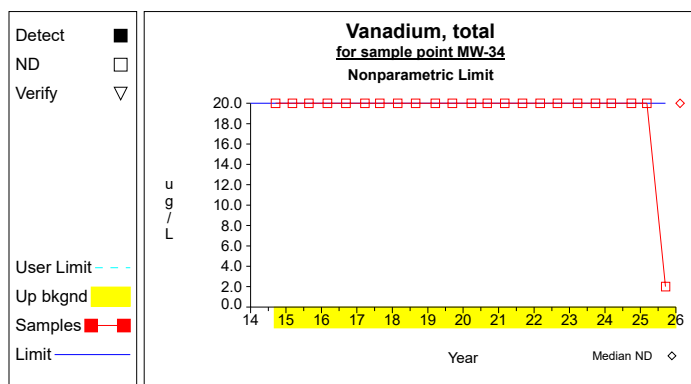
Up vs. Down Prediction Limits



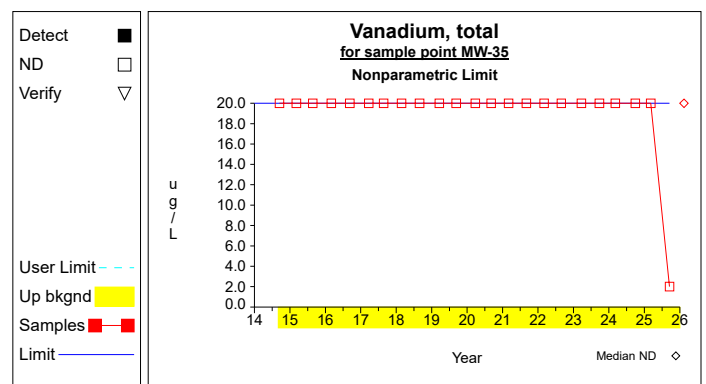
Graph 92



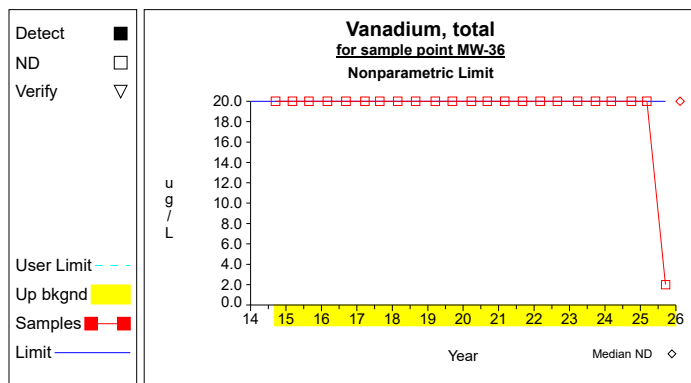
Graph 93



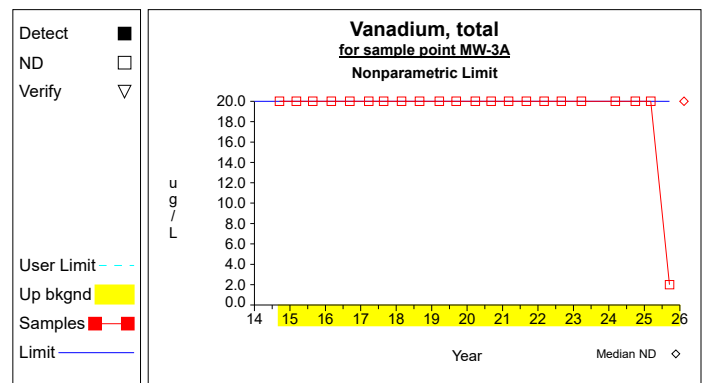
Graph 94



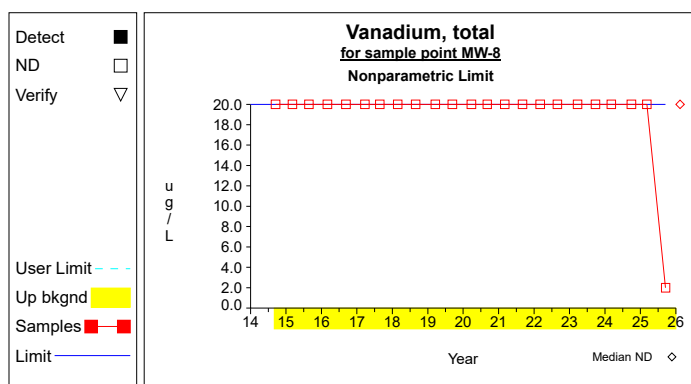
Graph 95



Graph 96

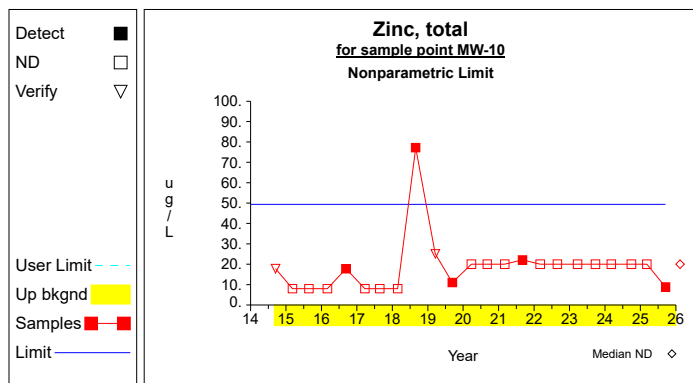


Graph 97

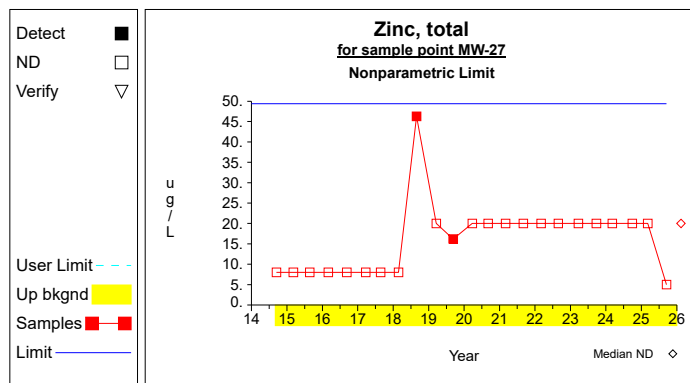


Graph 98

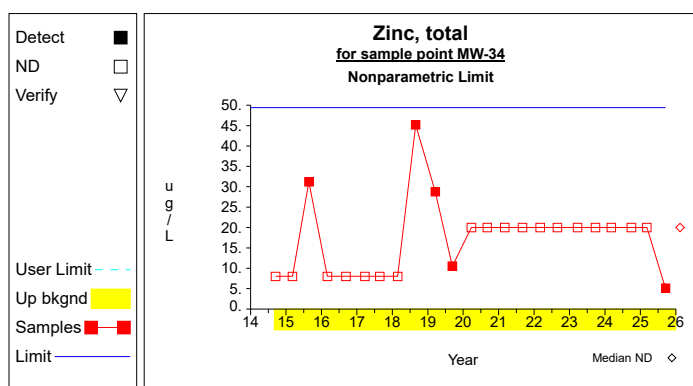
Up vs. Down Prediction Limits



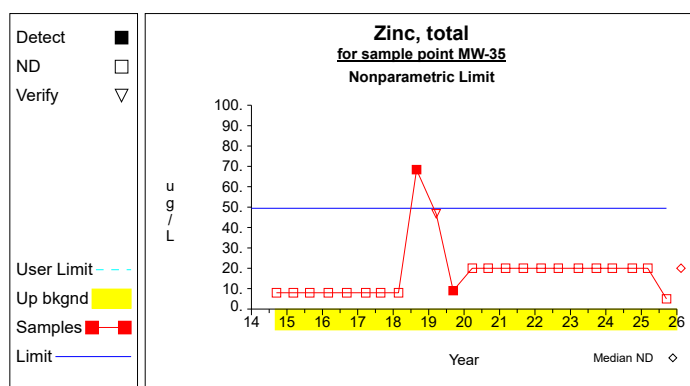
Graph 99



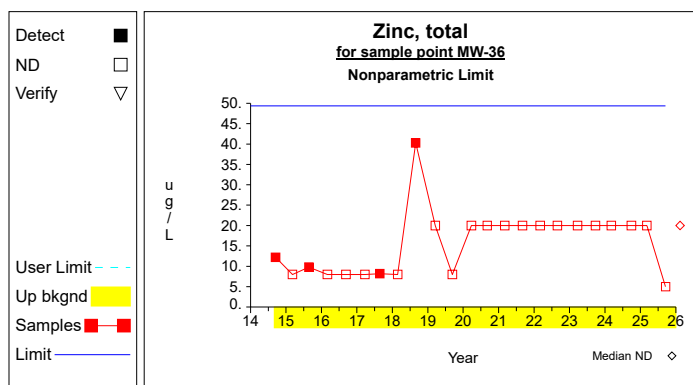
Graph 100



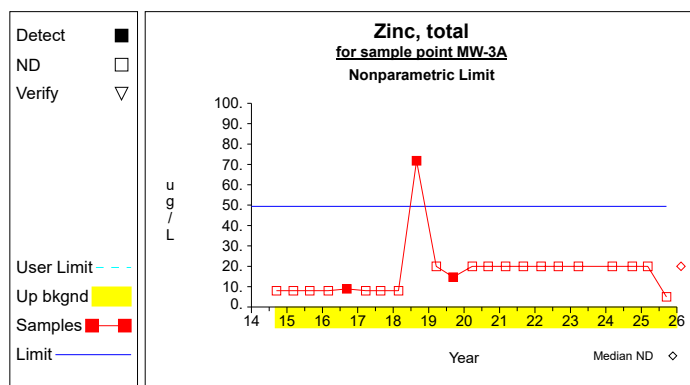
Graph 101



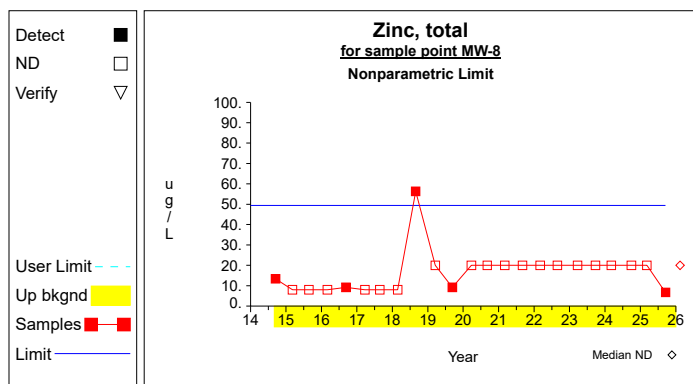
Graph 102



Graph 103

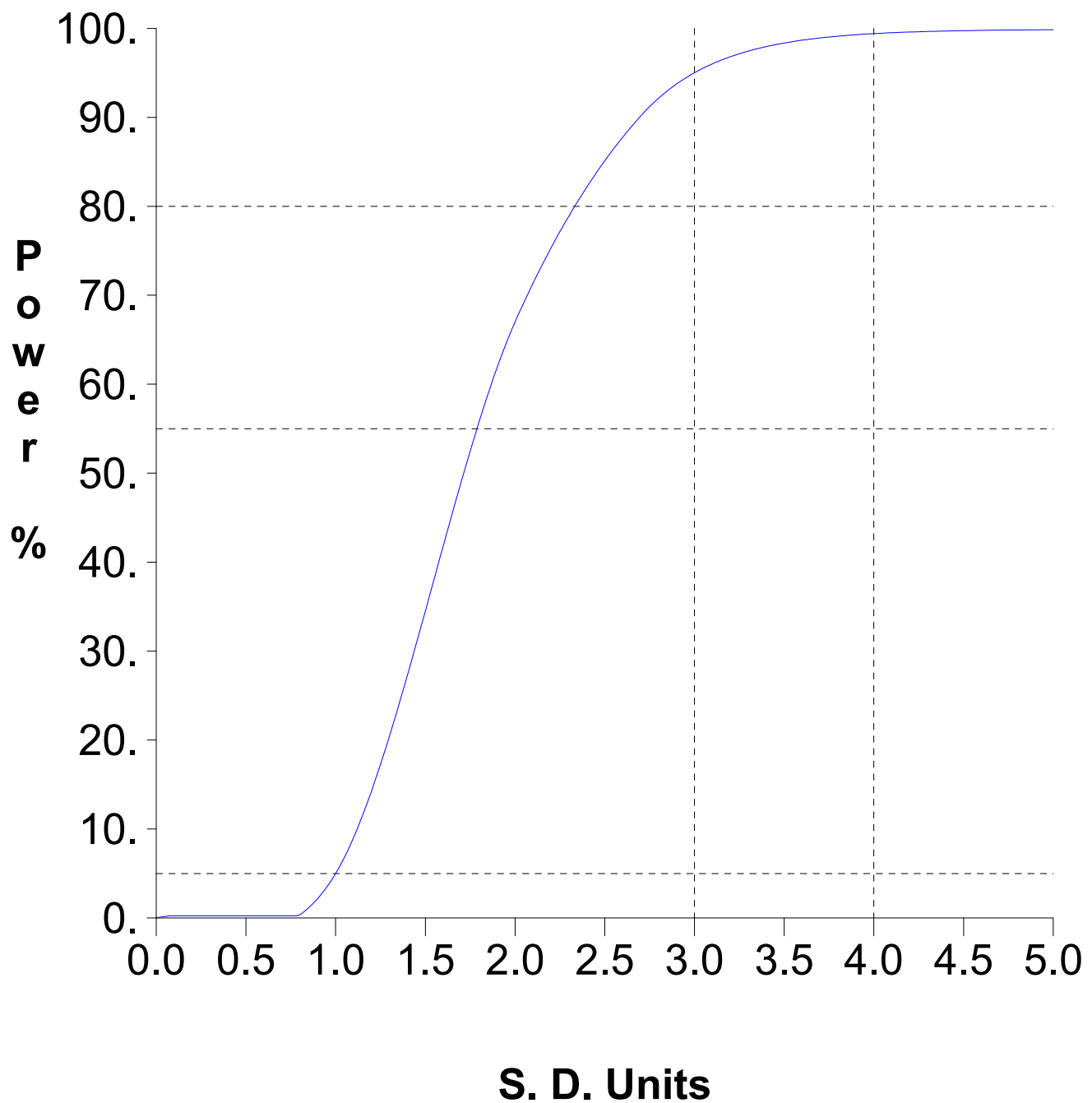


Graph 104



Graph 105

False Positive and False Negative Rates for Current Upgradient vs. Downgradient Monitoring Program



Attachment C

Assessment Statistics for 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	
Arsenic, total	ug/L	MW-10	4	2.000	0.000	1.176	2.000	2.000	10.000		
Arsenic, total	ug/L	MW-34	4	2.900	1.089	1.176	1.619	4.181	10.000		
Arsenic, total	ug/L	MW-35	4	2.000	0.000	1.176	2.000	2.000	10.000		
Arsenic, total	ug/L	MW-36	4	2.000	0.000	1.176	2.000	2.000	10.000		
Arsenic, total	ug/L	MW-3A	4	5.250	3.974	1.176	0.576	9.924	10.000		
Arsenic, total	ug/L	MW-8	4	2.000	0.000	1.176	2.000	2.000	10.000		
Barium, total	ug/L	MW-10	4	487.250	59.438	1.176	417.333	557.167	2000.000		
Barium, total	ug/L	MW-34	4	166.600	52.811	1.176	104.479	228.721	2000.000	dec	
Barium, total	ug/L	MW-35	4	449.250	10.689	1.176	436.677	461.823	2000.000	dec	
Barium, total	ug/L	MW-36	4	302.250	9.535	1.176	291.034	313.466	2000.000		
Barium, total	ug/L	MW-3A	4	126.450	54.309	1.176	62.567	190.333	2000.000		
Barium, total	ug/L	MW-8	4	244.500	49.210	1.176	186.614	302.386	2000.000		
Cobalt, total	ug/L	MW-10	4	5.050	1.723	1.176	3.023	7.077	2.100	dec	**
Cobalt, total	ug/L	MW-34	4	2.475	2.451	1.176	0.000	5.359	2.100		
Cobalt, total	ug/L	MW-35	4	0.400	0.000	1.176	0.400	0.400	2.100		
Cobalt, total	ug/L	MW-36	4	0.400	0.000	1.176	0.400	0.400	2.100		
Cobalt, total	ug/L	MW-3A	4	1.250	0.676	1.176	0.455	2.045	2.100		
Cobalt, total	ug/L	MW-8	4	1.450	1.139	1.176	0.111	2.789	2.100		
Nickel, total	ug/L	MW-10	4	14.500	2.782	1.176	11.227	17.773	100.000	dec	
Nickel, total	ug/L	MW-34	4	9.025	5.806	1.176	2.196	15.854	100.000	dec	
Nickel, total	ug/L	MW-35	4	2.000	0.000	1.176	2.000	2.000	100.000		
Nickel, total	ug/L	MW-36	4	2.000	0.000	1.176	2.000	2.000	100.000		
Nickel, total	ug/L	MW-3A	4	5.425	5.002	1.176	0.000	11.308	100.000		
Nickel, total	ug/L	MW-8	4	8.500	3.801	1.176	4.029	12.971	100.000	dec	

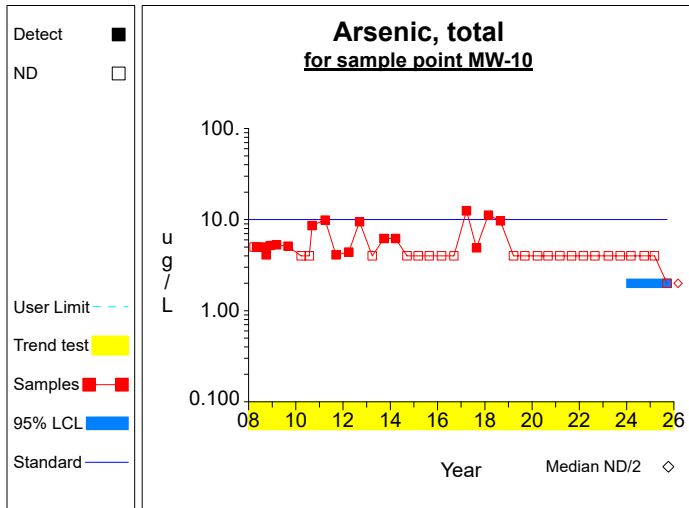
* - Insufficient Data

** - Significant Exceedance

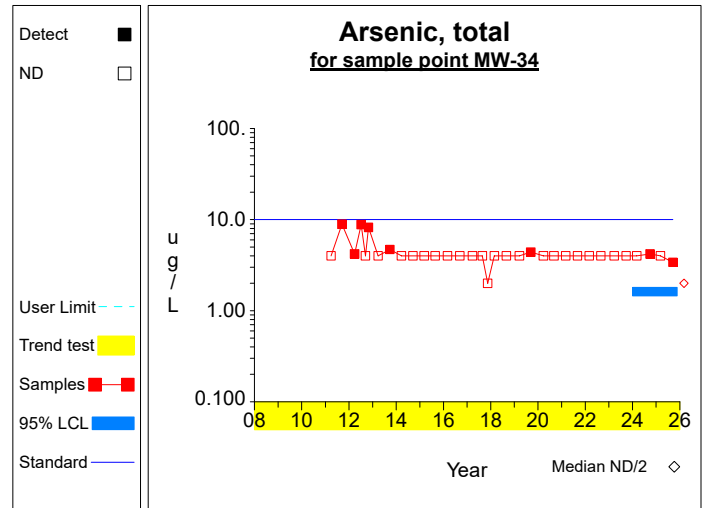
LCL = Lower Confidence Limit

UCL = Upper Confidence Limit

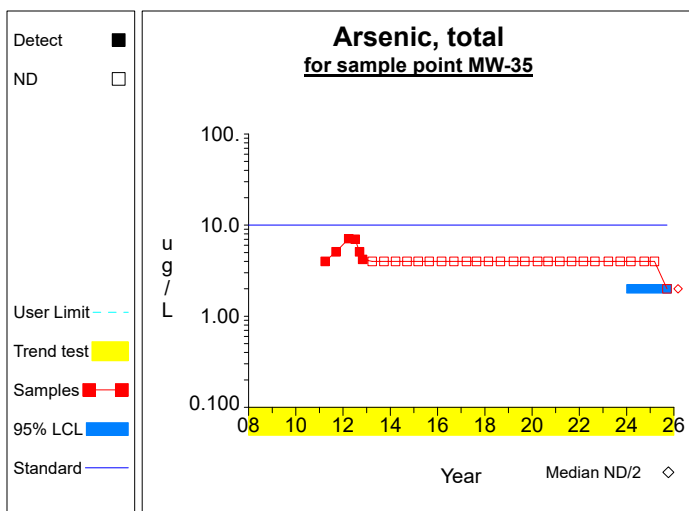
Confidence Limits (Assessment)



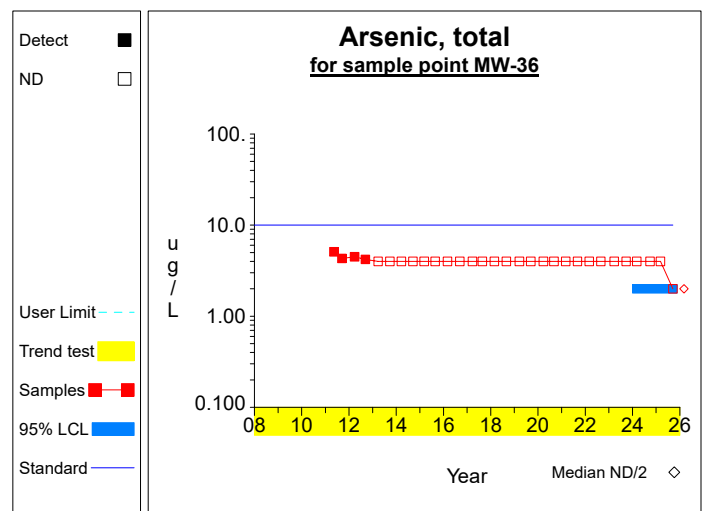
Graph 1



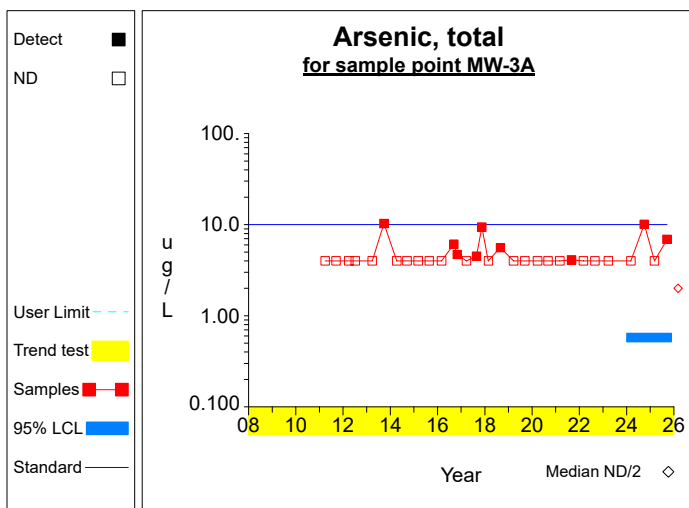
Graph 2



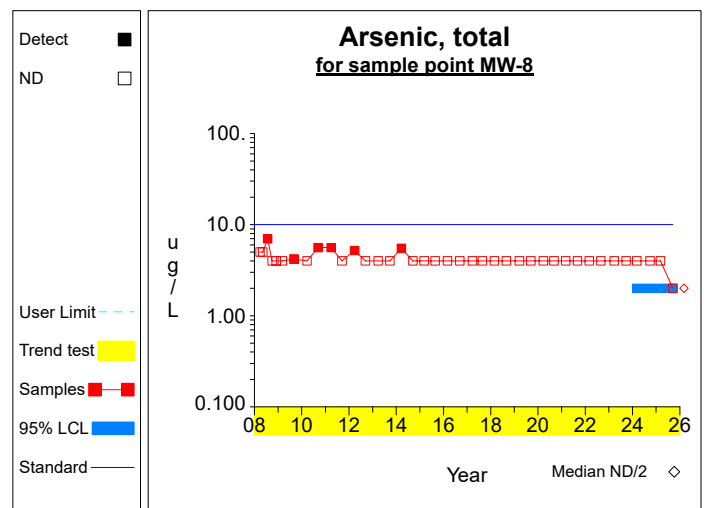
Graph 3



Graph 4

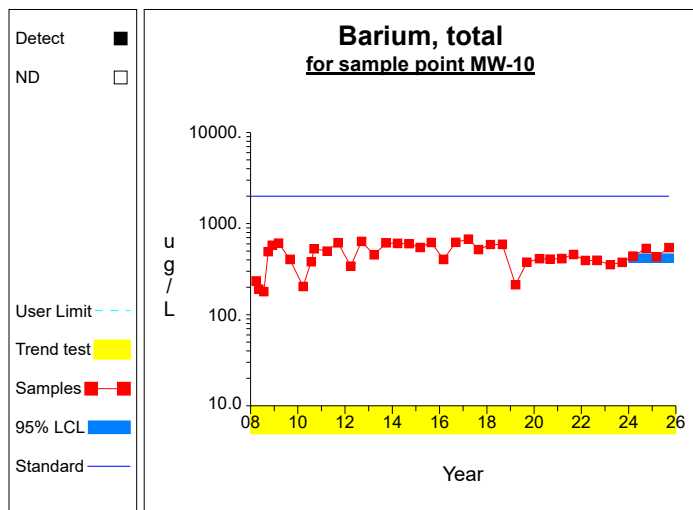


Graph 5

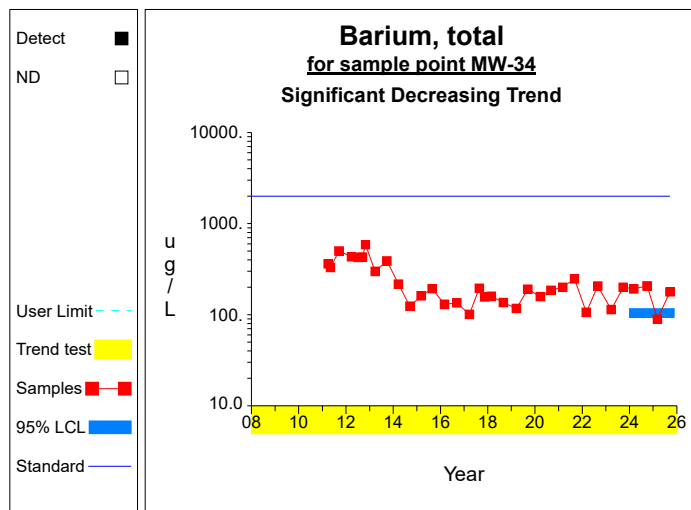


Graph 6

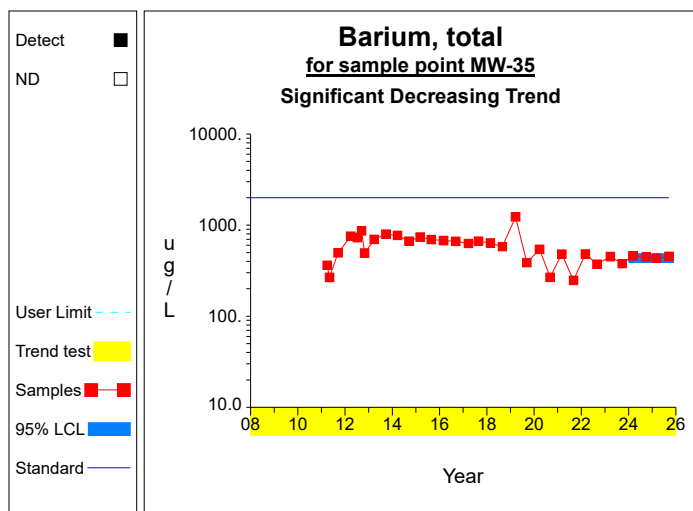
Confidence Limits (Assessment)



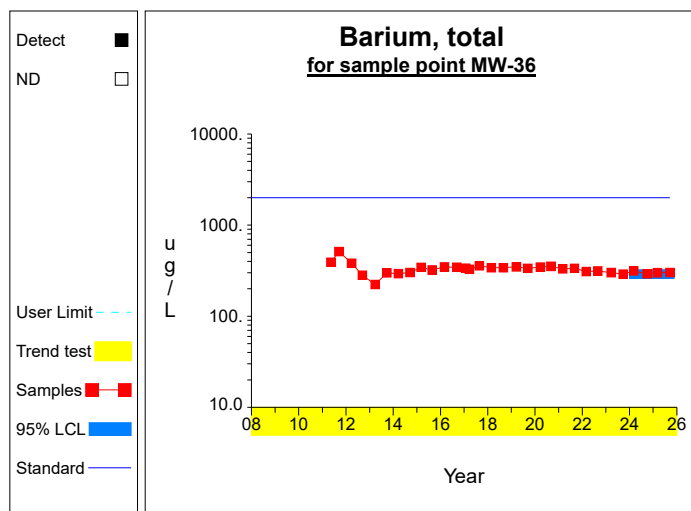
Graph 7



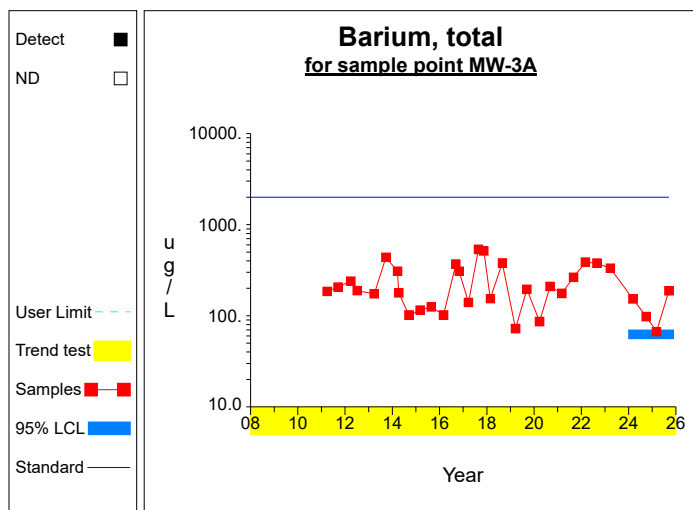
Graph 8



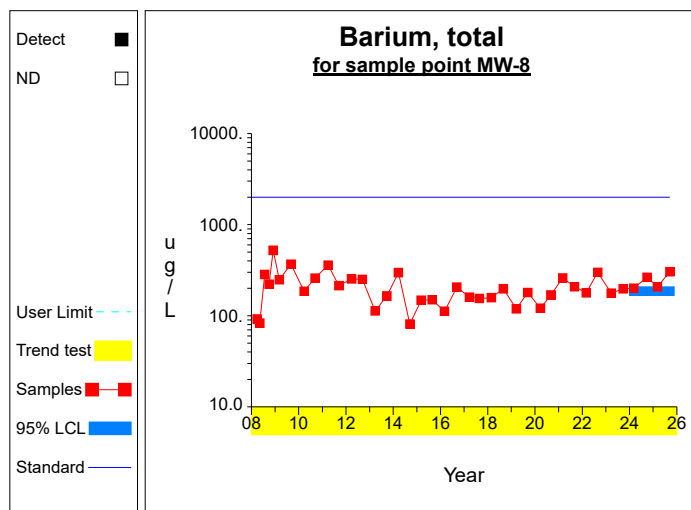
Graph 9



Graph 10

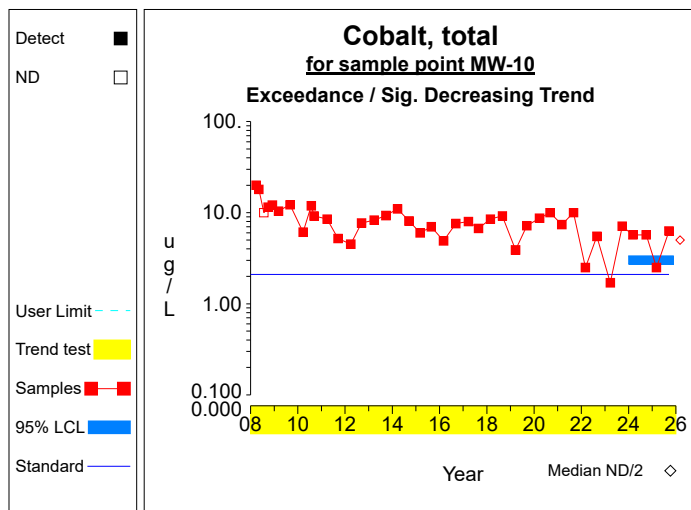


Graph 11

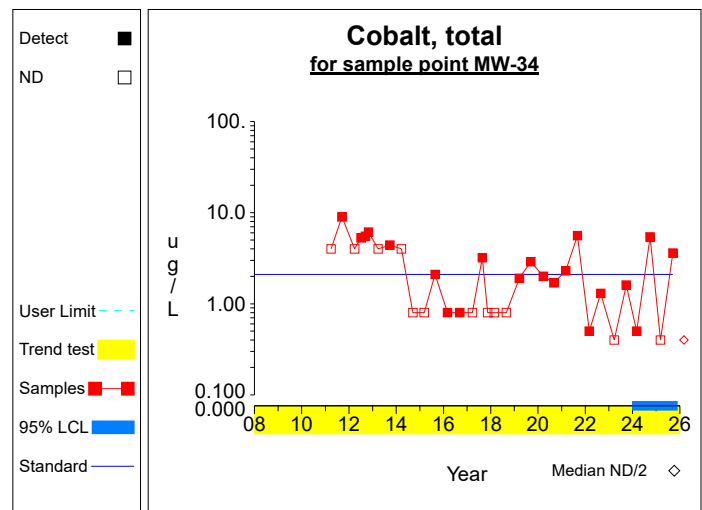


Graph 12

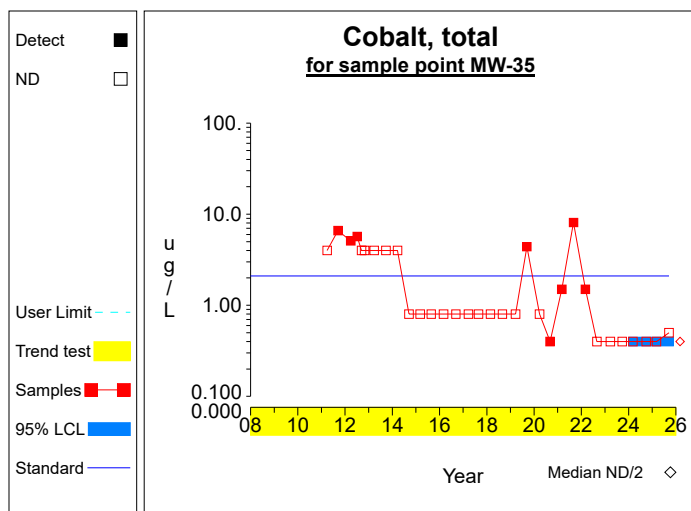
Confidence Limits (Assessment)



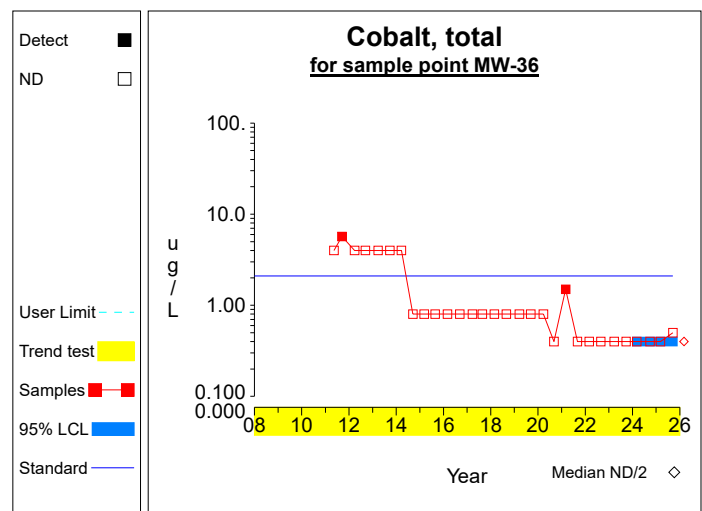
Graph 13



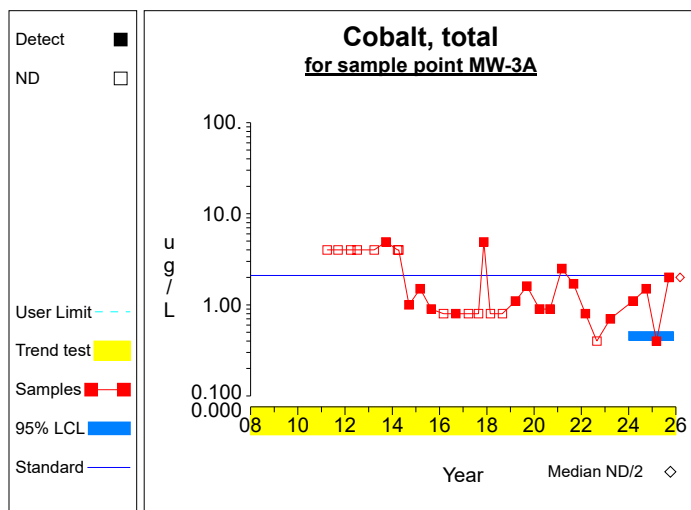
Graph 14



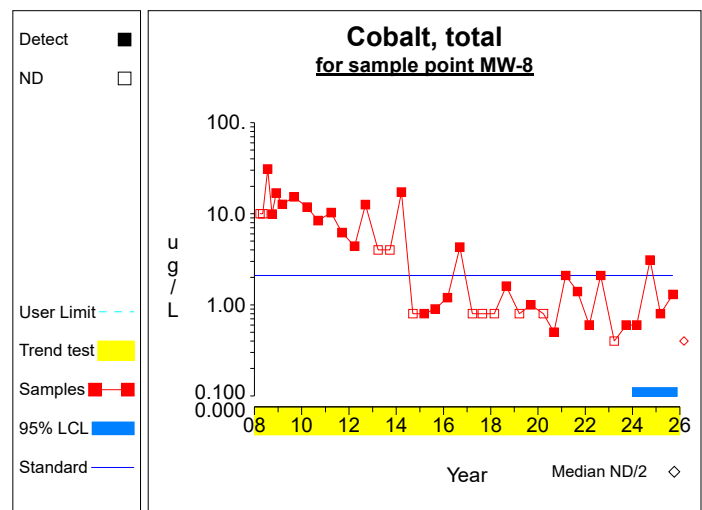
Graph 15



Graph 16

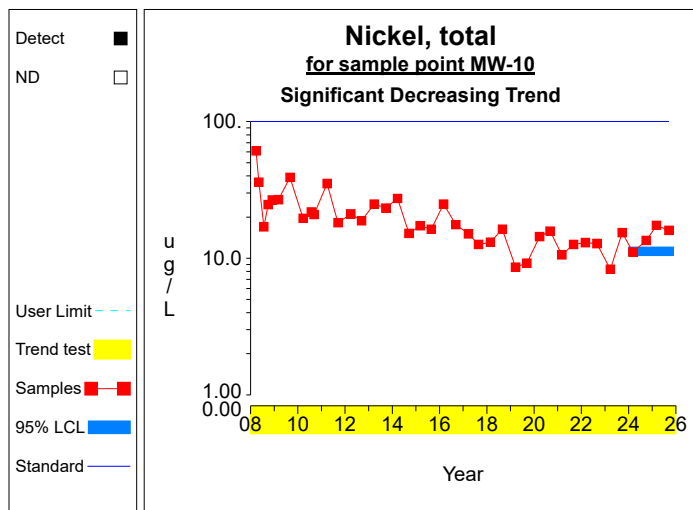


Graph 17

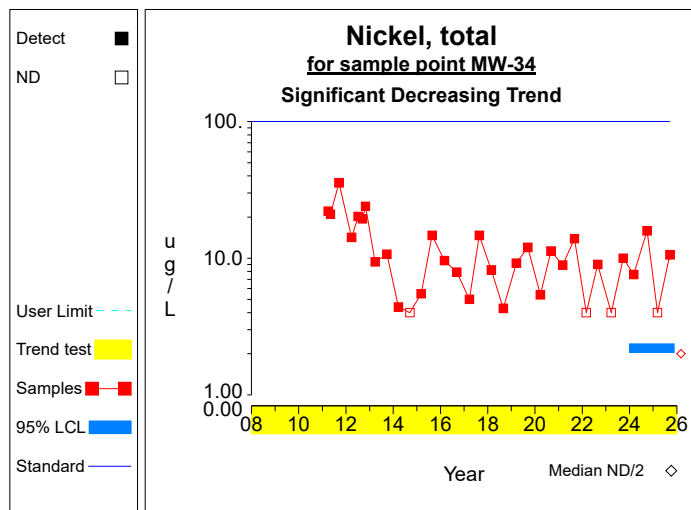


Graph 18

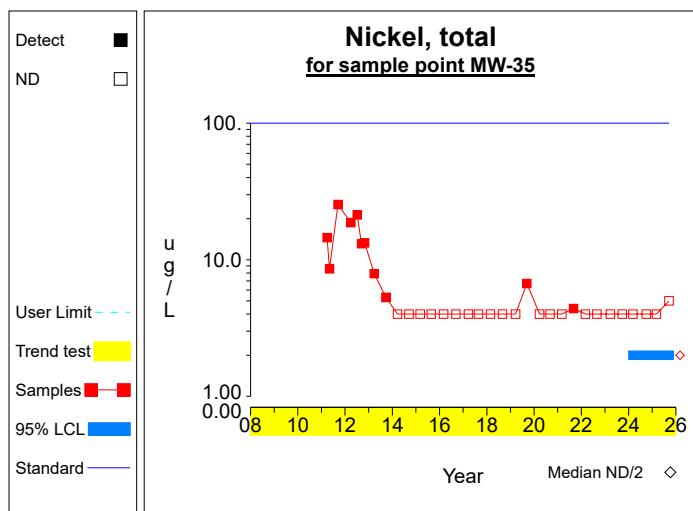
Confidence Limits (Assessment)



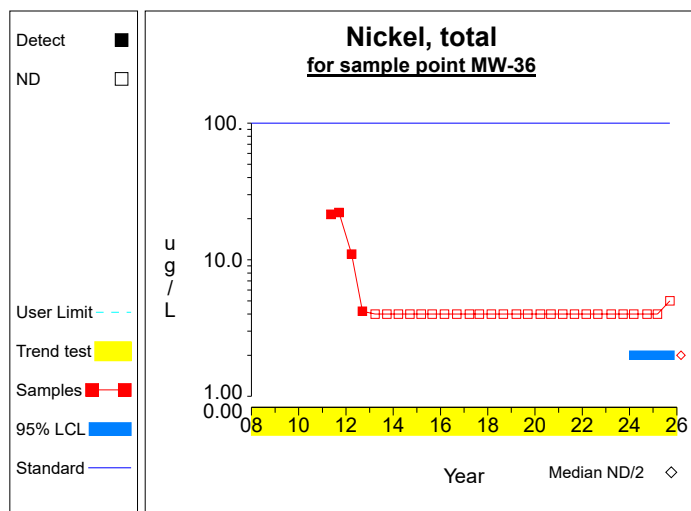
Graph 19



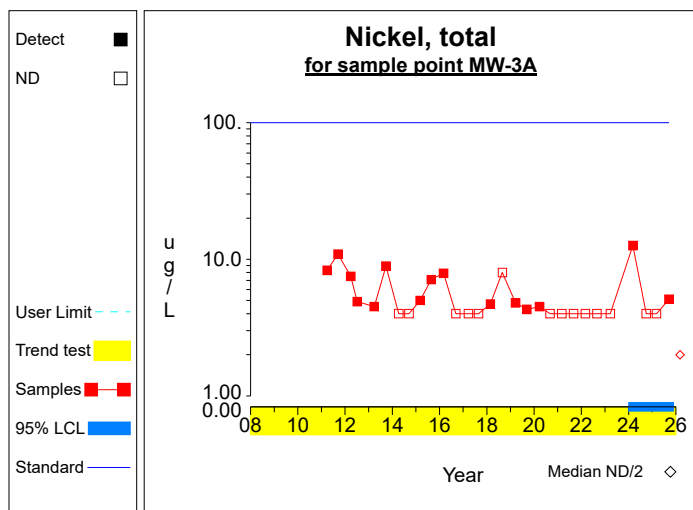
Graph 20



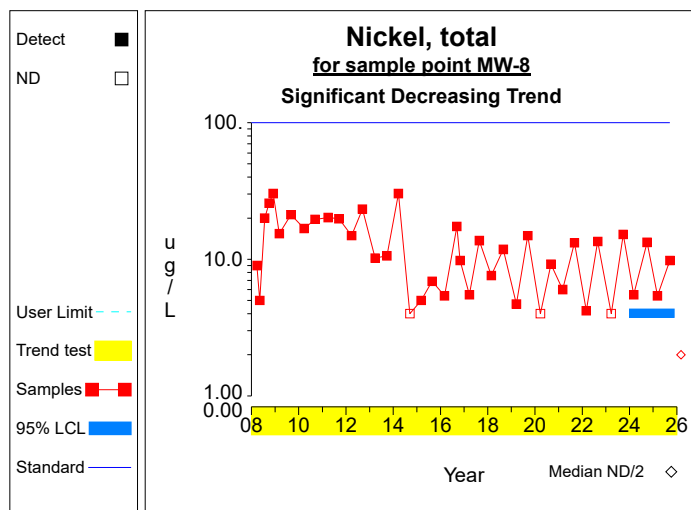
Graph 21



Graph 22



Graph 23



Graph 24

Attachment D

Summary of Historical VOC Detections

Table 1

Historical Volatile Organic Compound Detections

Constituent	Well	Date	Identifier	Result	Limit	Units
1,2-dichloroethane	MW-10	7/23/1992		1.4	1.0	ug/L
1,4-dichlorobenzene	MW-10	7/23/2008		1.0	1.0	ug/L
1,4-dichlorobenzene	MW-10	9/30/2008		1.5	1.0	ug/L
1,4-dichlorobenzene	MW-10	12/02/2008		1.1	1.0	ug/L
1,4-dichlorobenzene	MW-10	3/05/2009		1.2	1.0	ug/L
1,4-dichlorobenzene	MW-10	9/01/2009		1.3	1.0	ug/L
1,4-dichlorobenzene	MW-10	3/23/2010		1.4	1.0	ug/L
1,4-dichlorobenzene	MW-10	7/26/2010		7.8	1.0	ug/L
1,4-dichlorobenzene	MW-10	9/09/2010		3.8	1.0	ug/L
1,4-dichlorobenzene	MW-10	3/29/2011		1.0	1.0	ug/L
1,4-dichlorobenzene	MW-10	9/13/2011		1.0	1.0	ug/L
1,4-dichlorobenzene	MW-10	3/28/2012		1.4	1.0	ug/L
1,4-dichlorobenzene	MW-10	9/11/2012		1.8	1.0	ug/L
1,4-dichlorobenzene	MW-10	3/26/2013		1.2	1.0	ug/L
1,4-dichlorobenzene	MW-10	8/24/2015		1.3	1.0	ug/L
1,4-dichlorobenzene	MW-10	9/09/2016		1.1	1.0	ug/L
1,4-dichlorobenzene	MW-10	3/22/2017		2.4	1.0	ug/L
1,4-dichlorobenzene	MW-10	8/24/2017		2.3	1.0	ug/L
1,4-dichlorobenzene	MW-10	2/26/2018		2.7	1.0	ug/L
1,4-dichlorobenzene	MW-10	8/29/2018		3.0	1.0	ug/L
1,4-dichlorobenzene	MW-10	9/04/2020		3.2	1.0	ug/L
1,4-dichlorobenzene	MW-10	3/02/2021		2.3	1.0	ug/L
1,4-dichlorobenzene	MW-10	9/02/2021		2.8	1.0	ug/L
1,4-dichlorobenzene	MW-10	8/29/2022		2.0	1.0	ug/L
1,4-dichlorobenzene	MW-10	9/25/2023		1.9	1.0	ug/L
1,4-dichlorobenzene	MW-10	3/05/2024		1.5	1.0	ug/L
1,4-dichlorobenzene	MW-10	9/30/2024		2.5	1.0	ug/L
Benzene	MW-10	7/23/1992		1.2	1.0	ug/L
Benzene	MW-10	7/23/2008		2.5	1.0	ug/L
Benzene	MW-10	9/30/2008		1.5	1.0	ug/L
Benzene	MW-10	12/02/2008		1.1	1.0	ug/L
Benzene	MW-10	9/01/2009		1.3	1.0	ug/L
Benzene	MW-10	7/26/2010		4.1	1.0	ug/L
Benzene	MW-10	9/09/2010		2.8	1.0	ug/L
Chlorobenzene	MW-10	3/26/2008		1.1	1.0	ug/L
Chlorobenzene	MW-10	7/23/2008		2.6	1.0	ug/L
Chlorobenzene	MW-10	9/30/2008		2.8	1.0	ug/L
Chlorobenzene	MW-10	12/02/2008		2.6	1.0	ug/L
Chlorobenzene	MW-10	3/05/2009		2.2	1.0	ug/L
Chlorobenzene	MW-10	9/01/2009		2.1	1.0	ug/L
Chlorobenzene	MW-10	3/23/2010		1.4	1.0	ug/L
Chlorobenzene	MW-10	7/26/2010		5.4	1.0	ug/L
Chlorobenzene	MW-10	9/09/2010		4.4	1.0	ug/L
Chlorobenzene	MW-10	3/29/2011		1.3	1.0	ug/L
Chlorobenzene	MW-10	9/13/2011		1.4	1.0	ug/L
Chlorobenzene	MW-10	3/28/2012		1.1	1.0	ug/L
Chlorobenzene	MW-10	9/11/2012		2.4	1.0	ug/L
Chlorobenzene	MW-10	3/26/2013		1.3	1.0	ug/L
Chlorobenzene	MW-10	9/25/2013		1.0	1.0	ug/L
Chlorobenzene	MW-10	3/20/2014		1.1	1.0	ug/L
Chlorobenzene	MW-10	9/15/2014		1.2	1.0	ug/L
Chlorobenzene	MW-10	8/24/2015		1.4	1.0	ug/L
Chlorobenzene	MW-10	9/09/2016		1.1	1.0	ug/L
Chlorobenzene	MW-10	3/22/2017		2.3	1.0	ug/L
Chlorobenzene	MW-10	8/24/2017		2.3	1.0	ug/L
Chlorobenzene	MW-10	2/26/2018		2.4	1.0	ug/L
Chlorobenzene	MW-10	8/29/2018		2.6	1.0	ug/L
Chlorobenzene	MW-10	3/18/2019		1.0	1.0	ug/L
Chlorobenzene	MW-10	9/10/2019		2.4	1.0	ug/L
Chlorobenzene	MW-10	3/25/2020		1.1	1.0	ug/L
Chlorobenzene	MW-10	9/04/2020		2.5	1.0	ug/L
Chlorobenzene	MW-10	3/02/2021		1.9	1.0	ug/L
Chlorobenzene	MW-10	9/02/2021		2.7	1.0	ug/L
Chlorobenzene	MW-10	8/29/2022		1.7	1.0	ug/L
Chlorobenzene	MW-10	9/25/2023		1.7	1.0	ug/L
Chlorobenzene	MW-10	9/30/2024		1.5	1.0	ug/L
Chloroethane	MW-10	7/23/2008		1.7	1.0	ug/L
Chloroethane	MW-10	9/30/2008		2.7	1.0	ug/L
Chloroethane	MW-10	12/02/2008		2.6	1.0	ug/L
Chloroethane	MW-10	3/05/2009		1.5	1.0	ug/L
Chloroethane	MW-10	9/01/2009		1.8	1.0	ug/L
Chloroethane	MW-10	7/26/2010		3.0	1.0	ug/L
Chloroethane	MW-10	9/09/2010		4.2	1.0	ug/L
Chloroethane	MW-10	9/13/2011		1.4	1.0	ug/L
Chloroethane	MW-10	9/11/2012		2.2	1.0	ug/L
Chloroethane	MW-10	3/22/2017		1.0	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

Table 1

Historical Volatile Organic Compound Detections

Constituent	Well	Date	Identifier	Result	Limit	Units
Chloroethane	MW-10	8/29/2018		1.0	1.0	ug/L
Chloroethane	MW-10	8/29/2022		1.6	1.0	ug/L
Cis-1,2-dichloroethylene	MW-10	7/23/2008		1.0	1.0	ug/L
Cis-1,2-dichloroethylene	MW-10	9/30/2008		1.1	1.0	ug/L
Cis-1,2-dichloroethylene	MW-10	12/02/2008		1.0	1.0	ug/L
Cis-1,2-dichloroethylene	MW-10	9/09/2010		1.1	1.0	ug/L
Trichloroethylene	MW-10	10/13/1992		2.8	2.0	ug/L
Bis(2-ethylhexyl) phthalate	MW-27	2/26/2018		71	6	ug/L
Bis(2-ethylhexyl) phthalate	MW-27	3/18/2019		13	6	ug/L
1,1-dichloroethane	MW-34	10/30/2012		3.2	1.0	ug/L
1,4-dichlorobenzene	MW-34	9/13/2011		1.1	1.0	ug/L
1,4-dichlorobenzene	MW-34	8/24/2015		5.8	1.0	ug/L
1,4-dichlorobenzene	MW-34	3/01/2016		8.8	1.0	ug/L
1,4-dichlorobenzene	MW-34	9/09/2016		8.7	1.0	ug/L
1,4-dichlorobenzene	MW-34	3/22/2017		4.9	1.0	ug/L
1,4-dichlorobenzene	MW-34	8/24/2017		7.9	1.0	ug/L
1,4-dichlorobenzene	MW-34	2/26/2018		2.1	1.0	ug/L
1,4-dichlorobenzene	MW-34	8/29/2018		2.6	1.0	ug/L
1,4-dichlorobenzene	MW-34	9/04/2020		7.0	1.0	ug/L
1,4-dichlorobenzene	MW-34	3/02/2021		10.6	1.0	ug/L
1,4-dichlorobenzene	MW-34	9/02/2021		7.9	1.0	ug/L
1,4-dichlorobenzene	MW-34	3/02/2022		1.5	1.0	ug/L
1,4-dichlorobenzene	MW-34	8/29/2022		3.9	1.0	ug/L
1,4-dichlorobenzene	MW-34	3/23/2023		1.1	1.0	ug/L
1,4-dichlorobenzene	MW-34	9/25/2023		9.4	1.0	ug/L
1,4-dichlorobenzene	MW-34	9/30/2024		1.4	1.0	ug/L
1,4-dichlorobenzene	MW-34	9/17/2025		2.4	1.0	ug/L
Benzene	MW-34	9/13/2011		1.0	1.0	ug/L
Benzene	MW-34	8/24/2015		1.4	1.0	ug/L
Benzene	MW-34	3/22/2017		1.2	1.0	ug/L
Benzene	MW-34	8/24/2017		1.3	1.0	ug/L
Benzene	MW-34	3/02/2021		1.8	1.0	ug/L
Bis(2-ethylhexyl) phthalate	MW-34	10/30/2012		24	8	ug/L
Bis(2-ethylhexyl) phthalate	MW-34	8/20/2014		14	10	ug/L
Bis(2-ethylhexyl) phthalate	MW-34	9/15/2014		36	10	ug/L
Bis(2-ethylhexyl) phthalate	MW-34	8/24/2015		13	10	ug/L
Bis(2-ethylhexyl) phthalate	MW-34	2/26/2018		145	30	ug/L
Bis(2-ethylhexyl) phthalate	MW-34	9/10/2019		46	6	ug/L
Bis(2-ethylhexyl) phthalate	MW-34	3/02/2022		8	6	ug/L
Chlorobenzene	MW-34	8/24/2015		2.0	1.0	ug/L
Chlorobenzene	MW-34	3/01/2016		2.8	1.0	ug/L
Chlorobenzene	MW-34	9/09/2016		2.7	1.0	ug/L
Chlorobenzene	MW-34	3/22/2017		2.0	1.0	ug/L
Chlorobenzene	MW-34	8/24/2017		3.0	1.0	ug/L
Chlorobenzene	MW-34	3/18/2019		1.2	1.0	ug/L
Chlorobenzene	MW-34	9/10/2019		1.8	1.0	ug/L
Chlorobenzene	MW-34	9/04/2020		2.6	1.0	ug/L
Chlorobenzene	MW-34	3/02/2021		4.1	1.0	ug/L
Chlorobenzene	MW-34	9/02/2021		3.4	1.0	ug/L
Chlorobenzene	MW-34	8/29/2022		1.7	1.0	ug/L
Chlorobenzene	MW-34	9/25/2023		1.8	1.0	ug/L
Chlorobenzene	MW-34	9/17/2025		1.7	1.0	ug/L
Chloroethane	MW-34	3/01/2016		1.6	1.0	ug/L
Dichlorodifluoromethane	MW-34	10/30/2012		3.7	1.0	ug/L
1,1-dichloroethane	MW-35	3/29/2011		1.0	1.0	ug/L
1,1-dichloroethane	MW-35	9/13/2011		6.0	1.0	ug/L
1,1-dichloroethane	MW-35	3/28/2012		4.0	1.0	ug/L
1,1-dichloroethane	MW-35	7/05/2012		4.4	1.0	ug/L
1,1-dichloroethane	MW-35	9/11/2012		4.3	1.0	ug/L
1,1-dichloroethane	MW-35	3/26/2013		2.4	1.0	ug/L
1,1-dichloroethane	MW-35	9/25/2013		3.0	1.0	ug/L
1,1-dichloroethane	MW-35	3/20/2014		3.1	1.0	ug/L
1,1-dichloroethane	MW-35	3/01/2016		2.2	1.0	ug/L
1,1-dichloroethane	MW-35	9/09/2016		1.9	1.0	ug/L
1,1-dichloroethane	MW-35	3/22/2017		1.7	1.0	ug/L
1,1-dichloroethane	MW-35	2/26/2018		1.9	1.0	ug/L
1,1-dichloroethane	MW-35	8/29/2018		1.5	1.0	ug/L
1,1-dichloroethane	MW-35	3/18/2019		1.2	1.0	ug/L
1,1-dichloroethane	MW-35	9/10/2019		1.3	1.0	ug/L
1,1-dichloroethane	MW-35	3/25/2020		1.0	1.0	ug/L
Bis(2-ethylhexyl) phthalate	MW-35	7/09/2013		36	10	ug/L
Bis(2-ethylhexyl) phthalate	MW-35	9/15/2014		20	10	ug/L
Bis(2-ethylhexyl) phthalate	MW-35	8/24/2015		13	10	ug/L
Bis(2-ethylhexyl) phthalate	MW-35	8/24/2017		15	6	ug/L
Bis(2-ethylhexyl) phthalate	MW-35	8/29/2018		7	6	ug/L
Dichlorodifluoromethane	MW-35	3/26/2013		1.7	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

Table 1

Historical Volatile Organic Compound Detections

Constituent	Well	Date	Identifier	Result	Limit	Units
Dichlorodifluoromethane	MW-35	5/17/2013		2.0	1.0	ug/L
Dichlorodifluoromethane	MW-35	7/09/2013		1.5	1.0	ug/L
Dichlorodifluoromethane	MW-35	9/25/2013		7.4	1.0	ug/L
Dichlorodifluoromethane	MW-35	3/20/2014		3.5	1.0	ug/L
Dichlorodifluoromethane	MW-35	9/15/2014		2.3	1.0	ug/L
Dichlorodifluoromethane	MW-35	3/06/2015		7.0	1.0	ug/L
Dichlorodifluoromethane	MW-35	3/01/2016		5.9	1.0	ug/L
Dichlorodifluoromethane	MW-35	9/09/2016		4.3	1.0	ug/L
Dichlorodifluoromethane	MW-35	3/22/2017		3.4	1.0	ug/L
Dichlorodifluoromethane	MW-35	8/24/2017		3.1	1.0	ug/L
Dichlorodifluoromethane	MW-35	2/26/2018		2.1	1.0	ug/L
Dichlorodifluoromethane	MW-35	8/29/2018		1.8	1.0	ug/L
Dichlorodifluoromethane	MW-35	3/18/2019		1.1	1.0	ug/L
Dichlorodifluoromethane	MW-35	9/10/2019		1.5	1.0	ug/L
Dichlorodifluoromethane	MW-35	3/25/2020		2.1	1.0	ug/L
Dichlorodifluoromethane	MW-35	3/02/2022		1.5	1.0	ug/L
Dichlorodifluoromethane	MW-35	8/29/2022		1.5	1.0	ug/L
Dichlorodifluoromethane	MW-35	3/05/2024		1.2	1.0	ug/L
Dichlorodifluoromethane	MW-35	9/30/2024		1.2	1.0	ug/L
Dichlorodifluoromethane	MW-35	9/17/2025		1.8	1.0	ug/L
Trichloroethylene	MW-36	3/23/2023		3.5	1.0	ug/L
Bis(2-ethylhexyl) phthalate	MW-3A	2/26/2018		193	30	ug/L
Bis(2-ethylhexyl) phthalate	MW-3A	3/23/2023		8	6	ug/L
Bis(2-ethylhexyl) phthalate	MW-8	3/28/2012		25	8	ug/L
Bis(2-ethylhexyl) phthalate	MW-8	9/25/2013		10	10	ug/L
Bis(2-ethylhexyl) phthalate	MW-8	3/06/2015		25	10	ug/L
Bis(2-ethylhexyl) phthalate	MW-8	8/24/2017		35	6	ug/L
Bis(2-ethylhexyl) phthalate	MW-8	2/26/2018		262	30	ug/L
Bis(2-ethylhexyl) phthalate	MW-8	8/29/2018		24	6	ug/L
2-butanone (mek)	SW-101	5/06/2008		284	5	ug/L
4-methyl-2-pentanone (mibk)	SW-101	5/06/2008		35.3	5.0	ug/L
Benzene	SW-101	5/06/2008		3.3	1.0	ug/L
Methylene chloride	SW-101	5/06/2008		6.3	5.0	ug/L
1,2-dichloroethane	SW-102	3/26/2008		1.1	1.0	ug/L
1,2-dichloroethane	SW-102	5/06/2008		1.0	1.0	ug/L
2-butanone (mek)	SW-102	3/26/2008		334	5	ug/L
2-butanone (mek)	SW-102	5/06/2008		489	25	ug/L
2-butanone (mek)	SW-102	5/06/2008		607	5	ug/L
2-butanone (mek)	SW-102	7/23/2008		1340	50	ug/L
2-butanone (mek)	SW-102	7/23/2008		1210	5	ug/L
4-methyl-2-pentanone (mibk)	SW-102	3/26/2008		233	5	ug/L
4-methyl-2-pentanone (mibk)	SW-102	5/06/2008		242	5	ug/L
4-methyl-2-pentanone (mibk)	SW-102	7/23/2008		1340	50	ug/L
4-methyl-2-pentanone (mibk)	SW-102	7/23/2008		1480	5	ug/L
4-methyl-2-pentanone (mibk)	SW-102	9/30/2008		510	25	ug/L
4-methyl-2-pentanone (mibk)	SW-102	9/30/2008		504	5	ug/L
Acetone	SW-102	3/26/2008		271	10	ug/L
Acetone	SW-102	7/23/2008		168	10	ug/L
Benzene	SW-102	3/26/2008		2.4	1.0	ug/L
Benzene	SW-102	5/06/2008		3.2	1.0	ug/L
Benzene	SW-102	7/23/2008		2.4	1.0	ug/L
Benzene	SW-102	9/30/2008		1.4	1.0	ug/L
Benzene	SW-102	12/02/2008		1.0	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 E

Assessment Statistics for the Verified VOC Detections

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-34	4	1.200	0.906	1.176	0.135	2.265	75.000	
Chlorobenzene	ug/L	MW-34	4	0.800	0.600	1.176	0.094	1.506	100.000	
Dichlorodifluoromethane	ug/L	MW-34	4	0.500	0.000	1.176	0.500	0.500	1000.000	
1,4-dichlorobenzene	ug/L	MW-35	4	0.500	0.000	1.176	0.500	0.500	75.000	
Chlorobenzene	ug/L	MW-35	4	0.500	0.000	1.176	0.500	0.500	100.000	
Dichlorodifluoromethane	ug/L	MW-35	4	1.175	0.532	1.176	0.550	1.800	1000.000	

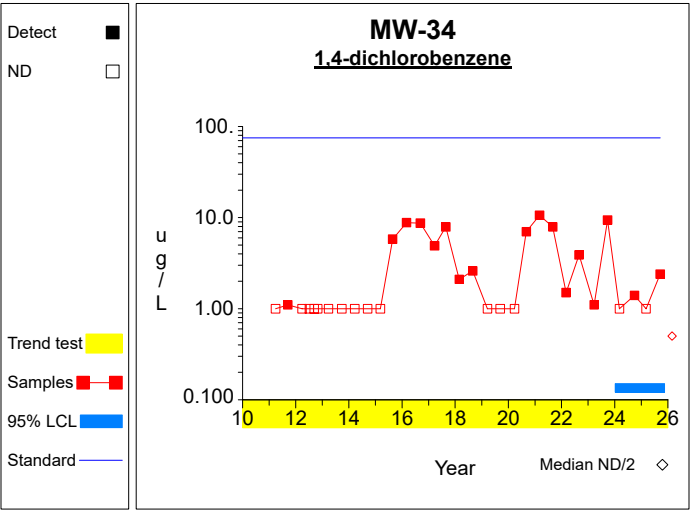
* - Insufficient Data

** - Significant Exceedance

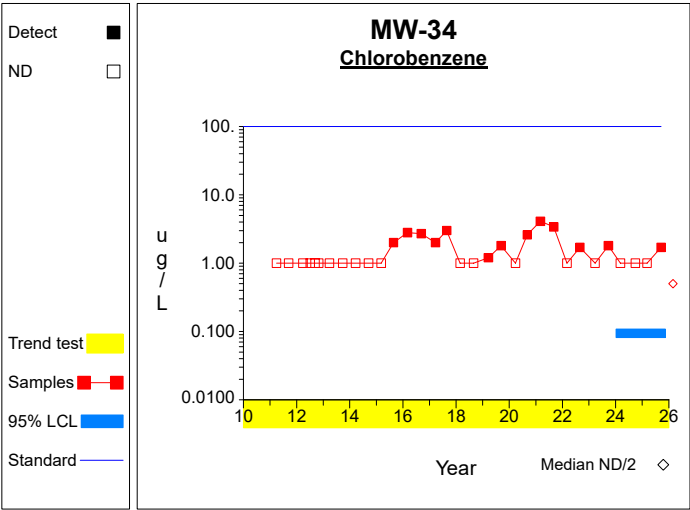
LCL = Lower Confidence Limit

UCL = Upper Confidence Limit

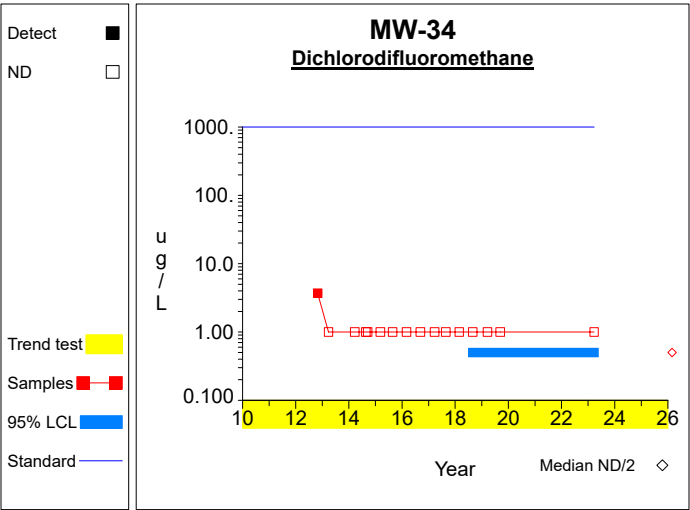
Confidence Limits (Assessment)



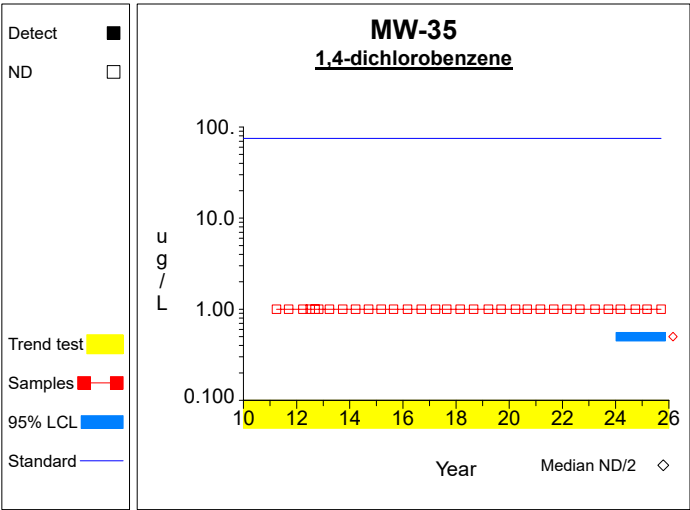
Graph 1



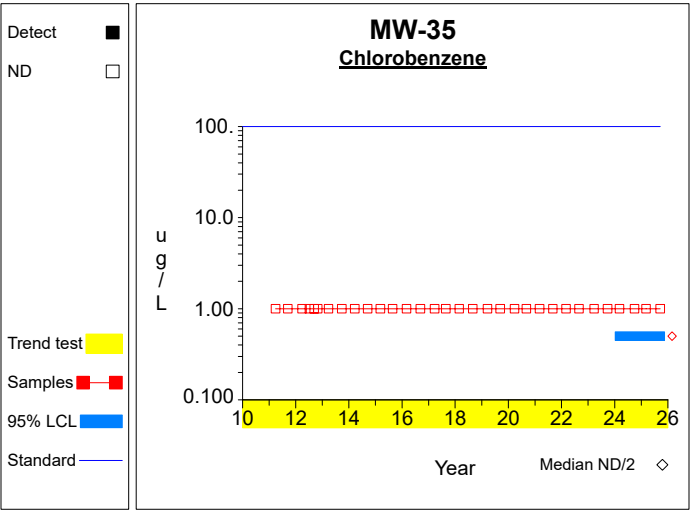
Graph 2



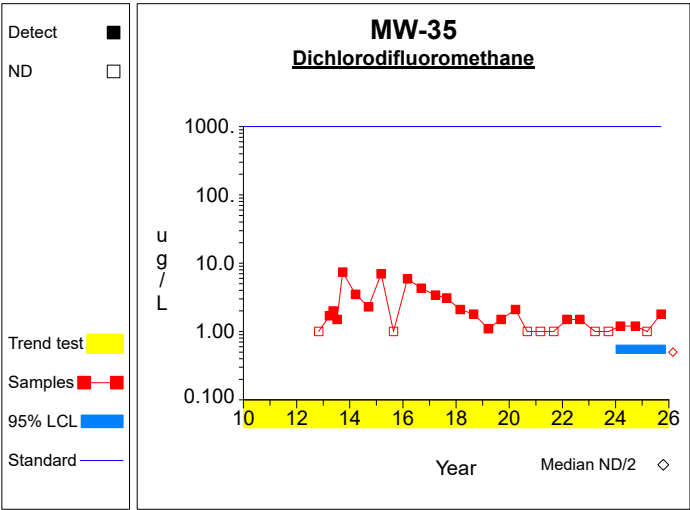
Graph 3



Graph 4



Graph 5



Graph 6

Appendix D

Laboratory Reports for Reporting Period *With Chain of Custody*



Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

1IC0573

Project Description

6029

For:

Todd Whipple

HLW Engineering

204 West Broad St

Story City, IA 50248

Heather Murphy

Customer Relationship Specialist

Friday, March 28, 2025

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.

600 East 17th Street South | Newton, IA 50208 | 641-792-8451 p | www.microbac.com



Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

1IC0573

HLW Engineering

Todd Whipple
204 West Broad St
Story City, IA 50248

Project Name: 6029

Project / PO Number: N/A
Received: 03/07/2025
Reported: 03/28/2025

Sample Summary Report

<u>Sample Name</u>	<u>Laboratory ID</u>	<u>Client Matrix</u>	<u>Sample Type</u>	<u>Sample Begin</u>	<u>Sample Taken</u>	<u>Lab Received</u>
MW-20(up)	1IC0573-01	Aqueous	GRAB		03/06/25 10:03	03/07/25 10:30
MW-26(up)	1IC0573-02	Aqueous	GRAB		03/06/25 10:28	03/07/25 10:30
MW-37(up)	1IC0573-03	Aqueous	GRAB		03/06/25 10:14	03/07/25 10:30
MW-33(up)	1IC0573-04	Aqueous	GRAB		03/06/25 10:43	03/07/25 10:30
MW-3A	1IC0573-05	Aqueous	GRAB		03/06/25 12:11	03/07/25 10:30
MW-8	1IC0573-06	Aqueous	GRAB		03/06/25 10:56	03/07/25 10:30
MW-10	1IC0573-07	Aqueous	GRAB		03/06/25 11:11	03/07/25 10:30
MW-11	1IC0573-08	Aqueous	GRAB		03/06/25 11:17	03/07/25 10:30
MW-27	1IC0573-09	Aqueous	GRAB		03/06/25 11:32	03/07/25 10:30
MW-34	1IC0573-10	Aqueous	GRAB		03/06/25 12:00	03/07/25 10:30
MW-35	1IC0573-11	Aqueous	GRAB		03/06/25 12:22	03/07/25 10:30
MW-36	1IC0573-12	Aqueous	GRAB		03/06/25 12:34	03/07/25 10:30
Duplicate	1IC0573-13	Aqueous	GRAB		03/06/25 10:43	03/07/25 10:30



Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

11C0573

Analytical Testing Parameters

Client Sample ID: MW-20(up)
Sample Matrix: Aqueous
Lab Sample ID: 11C0573-01

Collected By: Whipple, Todd
Collection Date: 03/06/2025 10:03

Determination of Volatile Organic Compounds	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 8260D								
Chloromethane	<1.0	1.0	ug/L	1		03/19/25 0000	03/20/25 0350	CSM
Vinyl Chloride	<1.0	1.0	ug/L	1		03/19/25 0000	03/20/25 0350	CSM
Bromomethane	<1.0	1.0	ug/L	1		03/19/25 0000	03/20/25 0350	CSM
Chloroethane	<1.0	1.0	ug/L	1		03/19/25 0000	03/20/25 0350	CSM
Trichlorofluoromethane	<1.0	1.0	ug/L	1		03/19/25 0000	03/20/25 0350	CSM
1,1-Dichloroethylene	<1.0	1.0	ug/L	1		03/11/25 0000	03/12/25 0634	RAF
Acetone	<10.0	10.0	ug/L	1		03/11/25 0000	03/12/25 0634	RAF
Methyl Iodide	<1.0	1.0	ug/L	1		03/11/25 0000	03/12/25 0634	RAF
Carbon Disulfide	<1.0	1.0	ug/L	1		03/11/25 0000	03/12/25 0634	RAF
Methylene Chloride	<5.0	5.0	ug/L	1		03/11/25 0000	03/12/25 0634	RAF
Acrylonitrile	<5.0	5.0	ug/L	1		03/11/25 0000	03/12/25 0634	RAF
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		03/11/25 0000	03/12/25 0634	RAF
1,1-Dichloroethane	<1.0	1.0	ug/L	1		03/11/25 0000	03/12/25 0634	RAF
Vinyl Acetate	<5.0	5.0	ug/L	1		03/11/25 0000	03/12/25 0634	RAF
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		03/11/25 0000	03/12/25 0634	RAF
2-Butanone (MEK)	<10.0	10.0	ug/L	1		03/11/25 0000	03/12/25 0634	RAF
Bromochloromethane	<1.0	1.0	ug/L	1		03/11/25 0000	03/12/25 0634	RAF
Chloroform	<1.0	1.0	ug/L	1		03/11/25 0000	03/12/25 0634	RAF
1,1,1-Trichloroethane	<1.0	1.0	ug/L	1		03/19/25 0000	03/20/25 0350	CSM
Carbon Tetrachloride	<1.0	1.0	ug/L	1		03/19/25 0000	03/20/25 0350	CSM
Benzene	<1.0	1.0	ug/L	1		03/11/25 0000	03/12/25 0634	RAF
1,2-Dichloroethane	<1.0	1.0	ug/L	1		03/11/25 0000	03/12/25 0634	RAF
Trichloroethylene	<1.0	1.0	ug/L	1		03/19/25 0000	03/20/25 0350	CSM
1,2-Dichloropropane	<1.0	1.0	ug/L	1		03/11/25 0000	03/12/25 0634	RAF
Dibromomethane	<1.0	1.0	ug/L	1		03/11/25 0000	03/12/25 0634	RAF
Bromodichloromethane	<1.0	1.0	ug/L	1		03/11/25 0000	03/12/25 0634	RAF
cis-1,3-Dichloropropene	<1.0	1.0	ug/L	1		03/11/25 0000	03/12/25 0634	RAF
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L	1		03/11/25 0000	03/12/25 0634	RAF
Toluene	<1.0	1.0	ug/L	1		03/11/25 0000	03/12/25 0634	RAF
trans-1,3-Dichloropropene	<1.0	1.0	ug/L	1		03/11/25 0000	03/12/25 0634	RAF
1,1,2-Trichloroethane	<1.0	1.0	ug/L	1		03/11/25 0000	03/12/25 0634	RAF
Tetrachloroethylene	<1.0	1.0	ug/L	1		03/19/25 0000	03/20/25 0350	CSM
2-Hexanone (MBK)	<5.0	5.0	ug/L	1		03/11/25 0000	03/12/25 0634	RAF
Dibromochloromethane	<1.0	1.0	ug/L	1		03/11/25 0000	03/12/25 0634	RAF
1,2-Dibromoethane	<1.0	1.0	ug/L	1		03/11/25 0000	03/12/25 0634	RAF
Chlorobenzene	<1.0	1.0	ug/L	1		03/11/25 0000	03/12/25 0634	RAF
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L	1		03/11/25 0000	03/12/25 0634	RAF
Ethylbenzene	<1.0	1.0	ug/L	1		03/11/25 0000	03/12/25 0634	RAF
Xylenes, total	<2.0	2.0	ug/L	1		03/11/25 0000	03/12/25 0634	RAF
Styrene	<1.0	1.0	ug/L	1		03/11/25 0000	03/12/25 0634	RAF

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CERTIFICATE OF ANALYSIS

11C0573

Client Sample ID: MW-20(up)
Sample Matrix: Aqueous
Lab Sample ID: 11C0573-01

Collected By: Whipple, Todd
Collection Date: 03/06/2025 10:03

Determination of Volatile Organic Compounds	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
Bromoform	<1.0	1.0	ug/L	1		03/11/25 0000	03/12/25 0634	RAF
1,2,3-Trichloropropane	<1.0	1.0	ug/L	1		03/11/25 0000	03/12/25 0634	RAF
trans-1,4-Dichloro-2-butene	<5.0	5.0	ug/L	1		03/11/25 0000	03/12/25 0634	RAF
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L	1		03/11/25 0000	03/12/25 0634	RAF
1,4-Dichlorobenzene	<1.0	1.0	ug/L	1		03/11/25 0000	03/12/25 0634	RAF
1,2-Dichlorobenzene	<1.0	1.0	ug/L	1		03/11/25 0000	03/12/25 0634	RAF
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L	1		03/11/25 0000	03/12/25 0634	RAF
Surrogate: Dibromofluoromethane	103	Limit: 75-136	% Rec	1		03/11/25 0000	03/12/25 0634	RAF
Surrogate: Dibromofluoromethane	65.4	Limit: 75-136	% Rec	1	S2	03/19/25 0000	03/20/25 0350	CSM
Surrogate: Dibromofluoromethane	103	Limit: 57-134	% Rec	1		03/11/25 0000	03/12/25 0634	RAF
Surrogate: 1,2-Dichloroethane-d4	102	Limit: 61-142	% Rec	1		03/11/25 0000	03/12/25 0634	RAF
Surrogate: 1,2-Dichloroethane-d4	64.1	Limit: 61-142	% Rec	1		03/19/25 0000	03/20/25 0350	CSM
Surrogate: 1,2-Dichloroethane-d4	102	Limit: 53-140	% Rec	1		03/11/25 0000	03/12/25 0634	RAF
Surrogate: Toluene-d8	96.1	Limit: 82-121	% Rec	1		03/11/25 0000	03/12/25 0634	RAF
Surrogate: Toluene-d8	96.1	Limit: 86-114	% Rec	1		03/11/25 0000	03/12/25 0634	RAF
Surrogate: Toluene-d8	102	Limit: 82-121	% Rec	1		03/19/25 0000	03/20/25 0350	CSM
Surrogate: 4-Bromofluorobenzene	92.9	Limit: 80-116	% Rec	1		03/11/25 0000	03/12/25 0634	RAF
Surrogate: 4-Bromofluorobenzene	89.1	Limit: 80-116	% Rec	1		03/19/25 0000	03/20/25 0350	CSM
Surrogate: 4-Bromofluorobenzene	92.9	Limit: 78-121	% Rec	1		03/11/25 0000	03/12/25 0634	RAF

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		03/11/25 1542	03/12/25 2356	RVV
Arsenic, total	<0.0040	0.0040	mg/L	4		03/11/25 1542	03/12/25 2356	RVV
Barium, total	0.216	0.0040	mg/L	4		03/11/25 1542	03/12/25 2356	RVV
Beryllium, total	<0.0040	0.0040	mg/L	4		03/11/25 1542	03/12/25 2356	RVV
Cadmium, total	<0.0008	0.0008	mg/L	4		03/11/25 1542	03/12/25 2356	RVV
Chromium, total	<0.0080	0.0080	mg/L	4		03/11/25 1542	03/12/25 2356	RVV
Cobalt, total	<0.0004	0.0004	mg/L	4		03/11/25 1542	03/12/25 2356	RVV
Copper, total	<0.0040	0.0040	mg/L	4		03/11/25 1542	03/12/25 2356	RVV
Lead, total	<0.0040	0.0040	mg/L	4		03/11/25 1542	03/12/25 2356	RVV
Nickel, total	<0.0040	0.0040	mg/L	4		03/11/25 1542	03/12/25 2356	RVV
Selenium, total	<0.0040	0.0040	mg/L	4		03/11/25 1542	03/12/25 2356	RVV
Silver, total	<0.0040	0.0040	mg/L	4		03/11/25 1542	03/12/25 2356	RVV
Thallium, total	<0.0020	0.0020	mg/L	4		03/11/25 1542	03/12/25 2356	RVV
Vanadium, total	<0.0200	0.0200	mg/L	4		03/11/25 1542	03/12/25 2356	RVV
Zinc, total	<0.0200	0.0200	mg/L	4		03/11/25 1542	03/12/25 2356	RVV

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CERTIFICATE OF ANALYSIS

11C0573

Client Sample ID: MW-26(up)
Sample Matrix: Aqueous
Lab Sample ID: 11C0573-02

Collected By: JGH
Collection Date: 03/06/2025 10:28

Determination of Volatile Organic Compounds	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 8260D								
Chloromethane	<1.0	1.0	ug/L	1		03/19/25 0000	03/20/25 0413	CSM
Vinyl Chloride	<1.0	1.0	ug/L	1		03/19/25 0000	03/20/25 0413	CSM
Bromomethane	<1.0	1.0	ug/L	1		03/19/25 0000	03/20/25 0413	CSM
Chloroethane	<1.0	1.0	ug/L	1		03/19/25 0000	03/20/25 0413	CSM
Trichlorofluoromethane	<1.0	1.0	ug/L	1		03/19/25 0000	03/20/25 0413	CSM
1,1-Dichloroethylene	<1.0	1.0	ug/L	1		03/11/25 0000	03/12/25 0657	RAF
Acetone	<10.0	10.0	ug/L	1		03/11/25 0000	03/12/25 0657	RAF
Methyl Iodide	<1.0	1.0	ug/L	1		03/11/25 0000	03/12/25 0657	RAF
Carbon Disulfide	<1.0	1.0	ug/L	1		03/11/25 0000	03/12/25 0657	RAF
Methylene Chloride	<5.0	5.0	ug/L	1		03/11/25 0000	03/12/25 0657	RAF
Acrylonitrile	<5.0	5.0	ug/L	1		03/11/25 0000	03/12/25 0657	RAF
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		03/11/25 0000	03/12/25 0657	RAF
1,1-Dichloroethane	<1.0	1.0	ug/L	1		03/11/25 0000	03/12/25 0657	RAF
Vinyl Acetate	<5.0	5.0	ug/L	1		03/11/25 0000	03/12/25 0657	RAF
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		03/11/25 0000	03/12/25 0657	RAF
2-Butanone (MEK)	<10.0	10.0	ug/L	1		03/11/25 0000	03/12/25 0657	RAF
Bromochloromethane	<1.0	1.0	ug/L	1		03/11/25 0000	03/12/25 0657	RAF
Chloroform	<1.0	1.0	ug/L	1		03/11/25 0000	03/12/25 0657	RAF
1,1,1-Trichloroethane	<1.0	1.0	ug/L	1		03/19/25 0000	03/20/25 0413	CSM
Carbon Tetrachloride	<1.0	1.0	ug/L	1		03/19/25 0000	03/20/25 0413	CSM
Benzene	<1.0	1.0	ug/L	1		03/11/25 0000	03/12/25 0657	RAF
1,2-Dichloroethane	<1.0	1.0	ug/L	1		03/11/25 0000	03/12/25 0657	RAF
Trichloroethylene	<1.0	1.0	ug/L	1		03/19/25 0000	03/20/25 0413	CSM
1,2-Dichloropropane	<1.0	1.0	ug/L	1		03/11/25 0000	03/12/25 0657	RAF
Dibromomethane	<1.0	1.0	ug/L	1		03/11/25 0000	03/12/25 0657	RAF
Bromodichloromethane	<1.0	1.0	ug/L	1		03/11/25 0000	03/12/25 0657	RAF
cis-1,3-Dichloropropene	<1.0	1.0	ug/L	1		03/11/25 0000	03/12/25 0657	RAF
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L	1		03/11/25 0000	03/12/25 0657	RAF
Toluene	<1.0	1.0	ug/L	1		03/11/25 0000	03/12/25 0657	RAF
trans-1,3-Dichloropropene	<1.0	1.0	ug/L	1		03/11/25 0000	03/12/25 0657	RAF
1,1,2-Trichloroethane	<1.0	1.0	ug/L	1		03/11/25 0000	03/12/25 0657	RAF
Tetrachloroethylene	<1.0	1.0	ug/L	1		03/19/25 0000	03/20/25 0413	CSM
2-Hexanone (MBK)	<5.0	5.0	ug/L	1		03/11/25 0000	03/12/25 0657	RAF
Dibromochloromethane	<1.0	1.0	ug/L	1		03/11/25 0000	03/12/25 0657	RAF
1,2-Dibromoethane	<1.0	1.0	ug/L	1		03/11/25 0000	03/12/25 0657	RAF
Chlorobenzene	<1.0	1.0	ug/L	1		03/11/25 0000	03/12/25 0657	RAF
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L	1		03/11/25 0000	03/12/25 0657	RAF
Ethylbenzene	<1.0	1.0	ug/L	1		03/11/25 0000	03/12/25 0657	RAF
Xylenes, total	<2.0	2.0	ug/L	1		03/11/25 0000	03/12/25 0657	RAF
Styrene	<1.0	1.0	ug/L	1		03/11/25 0000	03/12/25 0657	RAF
Bromoform	<1.0	1.0	ug/L	1		03/11/25 0000	03/12/25 0657	RAF
1,2,3-Trichloropropane	<1.0	1.0	ug/L	1		03/11/25 0000	03/12/25 0657	RAF

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CERTIFICATE OF ANALYSIS

11C0573

Client Sample ID: MW-26(up)
Sample Matrix: Aqueous
Lab Sample ID: 11C0573-02

Collected By: JGH
Collection Date: 03/06/2025 10:28

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		03/11/25 0000	03/12/25 0657	RAF
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L	1		03/11/25 0000	03/12/25 0657	RAF
1,4-Dichlorobenzene	<1.0	1.0	ug/L	1		03/11/25 0000	03/12/25 0657	RAF
1,2-Dichlorobenzene	<1.0	1.0	ug/L	1		03/11/25 0000	03/12/25 0657	RAF
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L	1		03/11/25 0000	03/12/25 0657	RAF
Surrogate: Dibromofluoromethane	104	Limit: 75-136	% Rec	1		03/11/25 0000	03/12/25 0657	RAF
Surrogate: Dibromofluoromethane	61.2	Limit: 75-136	% Rec	1	S2	03/19/25 0000	03/20/25 0413	CSM
Surrogate: Dibromofluoromethane	104	Limit: 57-134	% Rec	1		03/11/25 0000	03/12/25 0657	RAF
Surrogate: 1,2-Dichloroethane-d4	99.6	Limit: 53-140	% Rec	1		03/11/25 0000	03/12/25 0657	RAF
Surrogate: 1,2-Dichloroethane-d4	59.5	Limit: 61-142	% Rec	1	S2	03/19/25 0000	03/20/25 0413	CSM
Surrogate: 1,2-Dichloroethane-d4	99.6	Limit: 61-142	% Rec	1		03/11/25 0000	03/12/25 0657	RAF
Surrogate: Toluene-d8	96.2	Limit: 82-121	% Rec	1		03/11/25 0000	03/12/25 0657	RAF
Surrogate: Toluene-d8	103	Limit: 82-121	% Rec	1		03/19/25 0000	03/20/25 0413	CSM
Surrogate: Toluene-d8	96.2	Limit: 86-114	% Rec	1		03/11/25 0000	03/12/25 0657	RAF
Surrogate: 4-Bromofluorobenzene	91.1	Limit: 80-116	% Rec	1		03/19/25 0000	03/20/25 0413	CSM
Surrogate: 4-Bromofluorobenzene	95.3	Limit: 78-121	% Rec	1		03/11/25 0000	03/12/25 0657	RAF
Surrogate: 4-Bromofluorobenzene	95.3	Limit: 80-116	% Rec	1		03/11/25 0000	03/12/25 0657	RAF

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		03/11/25 1542	03/13/25 0020	RVV
Arsenic, total	<0.0040	0.0040	mg/L	4		03/11/25 1542	03/13/25 0020	RVV
Barium, total	0.116	0.0040	mg/L	4		03/11/25 1542	03/13/25 0020	RVV
Beryllium, total	<0.0040	0.0040	mg/L	4		03/11/25 1542	03/13/25 0020	RVV
Cadmium, total	<0.0008	0.0008	mg/L	4		03/11/25 1542	03/13/25 0020	RVV
Chromium, total	<0.0080	0.0080	mg/L	4		03/11/25 1542	03/13/25 0020	RVV
Cobalt, total	<0.0004	0.0004	mg/L	4		03/11/25 1542	03/13/25 0020	RVV
Copper, total	<0.0040	0.0040	mg/L	4		03/11/25 1542	03/13/25 0020	RVV
Lead, total	<0.0040	0.0040	mg/L	4		03/11/25 1542	03/13/25 0020	RVV
Nickel, total	<0.0040	0.0040	mg/L	4		03/11/25 1542	03/13/25 0020	RVV
Selenium, total	0.0124	0.0040	mg/L	4		03/11/25 1542	03/13/25 0020	RVV
Silver, total	<0.0040	0.0040	mg/L	4		03/11/25 1542	03/13/25 0020	RVV
Thallium, total	<0.0020	0.0020	mg/L	4		03/11/25 1542	03/13/25 0020	RVV
Vanadium, total	<0.0200	0.0200	mg/L	4		03/11/25 1542	03/13/25 0020	RVV
Zinc, total	<0.0200	0.0200	mg/L	4		03/11/25 1542	03/13/25 0020	RVV

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CERTIFICATE OF ANALYSIS

11C0573

Client Sample ID: MW-37(up)
Sample Matrix: Aqueous
Lab Sample ID: 11C0573-03

Collected By: JGH
Collection Date: 03/06/2025 10:14

Determination of Volatile Organic Compounds	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 8260D								
Chloromethane	<1.0	1.0	ug/L	1		03/19/25 0000	03/20/25 0435	CSM
Vinyl Chloride	<1.0	1.0	ug/L	1		03/19/25 0000	03/20/25 0435	CSM
Bromomethane	<1.0	1.0	ug/L	1		03/19/25 0000	03/20/25 0435	CSM
Chloroethane	<1.0	1.0	ug/L	1		03/19/25 0000	03/20/25 0435	CSM
Trichlorofluoromethane	<1.0	1.0	ug/L	1		03/19/25 0000	03/20/25 0435	CSM
1,1-Dichloroethylene	<1.0	1.0	ug/L	1		03/11/25 0000	03/12/25 0720	RAF
Acetone	<10.0	10.0	ug/L	1		03/11/25 0000	03/12/25 0720	RAF
Methyl Iodide	<1.0	1.0	ug/L	1		03/11/25 0000	03/12/25 0720	RAF
Carbon Disulfide	<1.0	1.0	ug/L	1		03/11/25 0000	03/12/25 0720	RAF
Methylene Chloride	<5.0	5.0	ug/L	1		03/11/25 0000	03/12/25 0720	RAF
Acrylonitrile	<5.0	5.0	ug/L	1		03/11/25 0000	03/12/25 0720	RAF
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		03/11/25 0000	03/12/25 0720	RAF
1,1-Dichloroethane	<1.0	1.0	ug/L	1		03/11/25 0000	03/12/25 0720	RAF
Vinyl Acetate	<5.0	5.0	ug/L	1		03/11/25 0000	03/12/25 0720	RAF
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		03/11/25 0000	03/12/25 0720	RAF
2-Butanone (MEK)	<10.0	10.0	ug/L	1		03/11/25 0000	03/12/25 0720	RAF
Bromochloromethane	<1.0	1.0	ug/L	1		03/11/25 0000	03/12/25 0720	RAF
Chloroform	<1.0	1.0	ug/L	1		03/11/25 0000	03/12/25 0720	RAF
1,1,1-Trichloroethane	<1.0	1.0	ug/L	1		03/19/25 0000	03/20/25 0435	CSM
Carbon Tetrachloride	<1.0	1.0	ug/L	1		03/19/25 0000	03/20/25 0435	CSM
Benzene	<1.0	1.0	ug/L	1		03/11/25 0000	03/12/25 0720	RAF
1,2-Dichloroethane	<1.0	1.0	ug/L	1		03/11/25 0000	03/12/25 0720	RAF
Trichloroethylene	<1.0	1.0	ug/L	1		03/19/25 0000	03/20/25 0435	CSM
1,2-Dichloropropane	<1.0	1.0	ug/L	1		03/11/25 0000	03/12/25 0720	RAF
Dibromomethane	<1.0	1.0	ug/L	1		03/11/25 0000	03/12/25 0720	RAF
Bromodichloromethane	<1.0	1.0	ug/L	1		03/11/25 0000	03/12/25 0720	RAF
cis-1,3-Dichloropropene	<1.0	1.0	ug/L	1		03/11/25 0000	03/12/25 0720	RAF
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L	1		03/11/25 0000	03/12/25 0720	RAF
Toluene	<1.0	1.0	ug/L	1		03/11/25 0000	03/12/25 0720	RAF
trans-1,3-Dichloropropene	<1.0	1.0	ug/L	1		03/11/25 0000	03/12/25 0720	RAF
1,1,2-Trichloroethane	<1.0	1.0	ug/L	1		03/11/25 0000	03/12/25 0720	RAF
Tetrachloroethylene	<1.0	1.0	ug/L	1		03/19/25 0000	03/20/25 0435	CSM
2-Hexanone (MBK)	<5.0	5.0	ug/L	1		03/11/25 0000	03/12/25 0720	RAF
Dibromochloromethane	<1.0	1.0	ug/L	1		03/11/25 0000	03/12/25 0720	RAF
1,2-Dibromoethane	<1.0	1.0	ug/L	1		03/11/25 0000	03/12/25 0720	RAF
Chlorobenzene	<1.0	1.0	ug/L	1		03/11/25 0000	03/12/25 0720	RAF
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L	1		03/11/25 0000	03/12/25 0720	RAF
Ethylbenzene	<1.0	1.0	ug/L	1		03/11/25 0000	03/12/25 0720	RAF
Xylenes, total	<2.0	2.0	ug/L	1		03/11/25 0000	03/12/25 0720	RAF
Styrene	<1.0	1.0	ug/L	1		03/11/25 0000	03/12/25 0720	RAF
Bromoform	<1.0	1.0	ug/L	1		03/11/25 0000	03/12/25 0720	RAF
1,2,3-Trichloropropane	<1.0	1.0	ug/L	1		03/11/25 0000	03/12/25 0720	RAF

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CERTIFICATE OF ANALYSIS

11C0573

Client Sample ID: MW-37(up)
Sample Matrix: Aqueous
Lab Sample ID: 11C0573-03

Collected By: JGH
Collection Date: 03/06/2025 10:14

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		03/11/25 0000	03/12/25 0720	RAF
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L	1		03/11/25 0000	03/12/25 0720	RAF
1,4-Dichlorobenzene	<1.0	1.0	ug/L	1		03/11/25 0000	03/12/25 0720	RAF
1,2-Dichlorobenzene	<1.0	1.0	ug/L	1		03/11/25 0000	03/12/25 0720	RAF
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L	1		03/11/25 0000	03/12/25 0720	RAF
Surrogate: Dibromofluoromethane	105	Limit: 75-136	% Rec	1		03/11/25 0000	03/12/25 0720	RAF
Surrogate: Dibromofluoromethane	105	Limit: 57-134	% Rec	1		03/11/25 0000	03/12/25 0720	RAF
Surrogate: Dibromofluoromethane	62.5	Limit: 75-136	% Rec	1	S2	03/19/25 0000	03/20/25 0435	CSM
Surrogate: 1,2-Dichloroethane-d4	101	Limit: 53-140	% Rec	1		03/11/25 0000	03/12/25 0720	RAF
Surrogate: 1,2-Dichloroethane-d4	59.2	Limit: 61-142	% Rec	1	S2	03/19/25 0000	03/20/25 0435	CSM
Surrogate: 1,2-Dichloroethane-d4	101	Limit: 61-142	% Rec	1		03/11/25 0000	03/12/25 0720	RAF
Surrogate: Toluene-d8	97.3	Limit: 82-121	% Rec	1		03/11/25 0000	03/12/25 0720	RAF
Surrogate: Toluene-d8	97.3	Limit: 86-114	% Rec	1		03/11/25 0000	03/12/25 0720	RAF
Surrogate: Toluene-d8	103	Limit: 82-121	% Rec	1		03/19/25 0000	03/20/25 0435	CSM
Surrogate: 4-Bromofluorobenzene	95.5	Limit: 80-116	% Rec	1		03/11/25 0000	03/12/25 0720	RAF
Surrogate: 4-Bromofluorobenzene	95.5	Limit: 78-121	% Rec	1		03/11/25 0000	03/12/25 0720	RAF
Surrogate: 4-Bromofluorobenzene	89.0	Limit: 80-116	% Rec	1		03/19/25 0000	03/20/25 0435	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		03/11/25 1542	03/13/25 0026	RVV
Arsenic, total	<0.0040	0.0040	mg/L	4		03/11/25 1542	03/13/25 0026	RVV
Barium, total	0.0624	0.0040	mg/L	4		03/11/25 1542	03/13/25 0026	RVV
Beryllium, total	<0.0040	0.0040	mg/L	4		03/11/25 1542	03/13/25 0026	RVV
Cadmium, total	<0.0008	0.0008	mg/L	4		03/11/25 1542	03/13/25 0026	RVV
Chromium, total	<0.0080	0.0080	mg/L	4		03/11/25 1542	03/13/25 0026	RVV
Cobalt, total	<0.0004	0.0004	mg/L	4		03/11/25 1542	03/13/25 0026	RVV
Copper, total	<0.0040	0.0040	mg/L	4		03/11/25 1542	03/13/25 0026	RVV
Lead, total	<0.0040	0.0040	mg/L	4		03/11/25 1542	03/13/25 0026	RVV
Nickel, total	<0.0040	0.0040	mg/L	4		03/11/25 1542	03/13/25 0026	RVV
Selenium, total	0.0150	0.0040	mg/L	4		03/11/25 1542	03/13/25 0026	RVV
Silver, total	<0.0040	0.0040	mg/L	4		03/11/25 1542	03/13/25 0026	RVV
Thallium, total	<0.0020	0.0020	mg/L	4		03/11/25 1542	03/13/25 0026	RVV
Vanadium, total	<0.0200	0.0200	mg/L	4		03/11/25 1542	03/13/25 0026	RVV
Zinc, total	<0.0200	0.0200	mg/L	4		03/11/25 1542	03/13/25 0026	RVV

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CERTIFICATE OF ANALYSIS

11C0573

Client Sample ID: MW-33(up)
Sample Matrix: Aqueous
Lab Sample ID: 11C0573-04

Collected By: JGH
Collection Date: 03/06/2025 10:43

Determination of Volatile Organic Compounds	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 8260D								
Chloromethane	<1.0	1.0	ug/L	1		03/19/25 0000	03/20/25 0458	CSM
Vinyl Chloride	<1.0	1.0	ug/L	1		03/19/25 0000	03/20/25 0458	CSM
Bromomethane	<1.0	1.0	ug/L	1		03/19/25 0000	03/20/25 0458	CSM
Chloroethane	<1.0	1.0	ug/L	1		03/19/25 0000	03/20/25 0458	CSM
Trichlorofluoromethane	<1.0	1.0	ug/L	1		03/19/25 0000	03/20/25 0458	CSM
1,1-Dichloroethylene	<1.0	1.0	ug/L	1		03/11/25 0000	03/12/25 0743	RAF
Acetone	<10.0	10.0	ug/L	1		03/11/25 0000	03/12/25 0743	RAF
Methyl Iodide	<1.0	1.0	ug/L	1		03/11/25 0000	03/12/25 0743	RAF
Carbon Disulfide	<1.0	1.0	ug/L	1		03/11/25 0000	03/12/25 0743	RAF
Methylene Chloride	<5.0	5.0	ug/L	1		03/11/25 0000	03/12/25 0743	RAF
Acrylonitrile	<5.0	5.0	ug/L	1		03/11/25 0000	03/12/25 0743	RAF
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		03/11/25 0000	03/12/25 0743	RAF
1,1-Dichloroethane	<1.0	1.0	ug/L	1		03/11/25 0000	03/12/25 0743	RAF
Vinyl Acetate	<5.0	5.0	ug/L	1		03/11/25 0000	03/12/25 0743	RAF
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		03/11/25 0000	03/12/25 0743	RAF
2-Butanone (MEK)	<10.0	10.0	ug/L	1		03/11/25 0000	03/12/25 0743	RAF
Bromochloromethane	<1.0	1.0	ug/L	1		03/11/25 0000	03/12/25 0743	RAF
Chloroform	<1.0	1.0	ug/L	1		03/11/25 0000	03/12/25 0743	RAF
1,1,1-Trichloroethane	<1.0	1.0	ug/L	1		03/19/25 0000	03/20/25 0458	CSM
Carbon Tetrachloride	<1.0	1.0	ug/L	1		03/19/25 0000	03/20/25 0458	CSM
Benzene	<1.0	1.0	ug/L	1		03/11/25 0000	03/12/25 0743	RAF
1,2-Dichloroethane	<1.0	1.0	ug/L	1		03/11/25 0000	03/12/25 0743	RAF
Trichloroethylene	<1.0	1.0	ug/L	1		03/19/25 0000	03/20/25 0458	CSM
1,2-Dichloropropane	<1.0	1.0	ug/L	1		03/11/25 0000	03/12/25 0743	RAF
Dibromomethane	<1.0	1.0	ug/L	1		03/11/25 0000	03/12/25 0743	RAF
Bromodichloromethane	<1.0	1.0	ug/L	1		03/11/25 0000	03/12/25 0743	RAF
cis-1,3-Dichloropropene	<1.0	1.0	ug/L	1		03/11/25 0000	03/12/25 0743	RAF
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L	1		03/11/25 0000	03/12/25 0743	RAF
Toluene	<1.0	1.0	ug/L	1		03/11/25 0000	03/12/25 0743	RAF
trans-1,3-Dichloropropene	<1.0	1.0	ug/L	1		03/11/25 0000	03/12/25 0743	RAF
1,1,2-Trichloroethane	<1.0	1.0	ug/L	1		03/11/25 0000	03/12/25 0743	RAF
Tetrachloroethylene	<1.0	1.0	ug/L	1		03/19/25 0000	03/20/25 0458	CSM
2-Hexanone (MBK)	<5.0	5.0	ug/L	1		03/11/25 0000	03/12/25 0743	RAF
Dibromochloromethane	<1.0	1.0	ug/L	1		03/11/25 0000	03/12/25 0743	RAF
1,2-Dibromoethane	<1.0	1.0	ug/L	1		03/11/25 0000	03/12/25 0743	RAF
Chlorobenzene	<1.0	1.0	ug/L	1		03/11/25 0000	03/12/25 0743	RAF
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L	1		03/11/25 0000	03/12/25 0743	RAF
Ethylbenzene	<1.0	1.0	ug/L	1		03/11/25 0000	03/12/25 0743	RAF
Xylenes, total	<2.0	2.0	ug/L	1		03/11/25 0000	03/12/25 0743	RAF
Styrene	<1.0	1.0	ug/L	1		03/11/25 0000	03/12/25 0743	RAF
Bromoform	<1.0	1.0	ug/L	1		03/11/25 0000	03/12/25 0743	RAF
1,2,3-Trichloropropane	<1.0	1.0	ug/L	1		03/11/25 0000	03/12/25 0743	RAF

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CERTIFICATE OF ANALYSIS

11C0573

Client Sample ID: MW-33(up)
Sample Matrix: Aqueous
Lab Sample ID: 11C0573-04

Collected By: JGH
Collection Date: 03/06/2025 10:43

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		03/11/25 0000	03/12/25 0743	RAF
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L	1		03/11/25 0000	03/12/25 0743	RAF
1,4-Dichlorobenzene	<1.0	1.0	ug/L	1		03/11/25 0000	03/12/25 0743	RAF
1,2-Dichlorobenzene	<1.0	1.0	ug/L	1		03/11/25 0000	03/12/25 0743	RAF
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L	1		03/11/25 0000	03/12/25 0743	RAF
Surrogate: Dibromofluoromethane	101	Limit: 75-136	% Rec	1		03/11/25 0000	03/12/25 0743	RAF
Surrogate: Dibromofluoromethane	59.7	Limit: 75-136	% Rec	1	S2	03/19/25 0000	03/20/25 0458	CSM
Surrogate: Dibromofluoromethane	101	Limit: 57-134	% Rec	1		03/11/25 0000	03/12/25 0743	RAF
Surrogate: 1,2-Dichloroethane-d4	100	Limit: 61-142	% Rec	1		03/11/25 0000	03/12/25 0743	RAF
Surrogate: 1,2-Dichloroethane-d4	56.9	Limit: 61-142	% Rec	1	S2	03/19/25 0000	03/20/25 0458	CSM
Surrogate: 1,2-Dichloroethane-d4	100	Limit: 53-140	% Rec	1		03/11/25 0000	03/12/25 0743	RAF
Surrogate: Toluene-d8	95.7	Limit: 82-121	% Rec	1		03/11/25 0000	03/12/25 0743	RAF
Surrogate: Toluene-d8	95.7	Limit: 86-114	% Rec	1		03/11/25 0000	03/12/25 0743	RAF
Surrogate: Toluene-d8	105	Limit: 82-121	% Rec	1		03/19/25 0000	03/20/25 0458	CSM
Surrogate: 4-Bromofluorobenzene	94.6	Limit: 80-116	% Rec	1		03/11/25 0000	03/12/25 0743	RAF
Surrogate: 4-Bromofluorobenzene	89.2	Limit: 80-116	% Rec	1		03/19/25 0000	03/20/25 0458	CSM
Surrogate: 4-Bromofluorobenzene	94.6	Limit: 78-121	% Rec	1		03/11/25 0000	03/12/25 0743	RAF

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		03/11/25 1542	03/13/25 0045	RVV
Arsenic, total	<0.0040	0.0040	mg/L	4		03/11/25 1542	03/13/25 0045	RVV
Barium, total	0.169	0.0040	mg/L	4		03/11/25 1542	03/13/25 0045	RVV
Beryllium, total	<0.0040	0.0040	mg/L	4		03/11/25 1542	03/13/25 0045	RVV
Cadmium, total	<0.0008	0.0008	mg/L	4		03/11/25 1542	03/13/25 0045	RVV
Chromium, total	<0.0080	0.0080	mg/L	4		03/11/25 1542	03/13/25 0045	RVV
Cobalt, total	<0.0004	0.0004	mg/L	4		03/11/25 1542	03/13/25 0045	RVV
Copper, total	<0.0040	0.0040	mg/L	4		03/11/25 1542	03/13/25 0045	RVV
Lead, total	<0.0040	0.0040	mg/L	4		03/11/25 1542	03/13/25 0045	RVV
Nickel, total	<0.0040	0.0040	mg/L	4		03/11/25 1542	03/13/25 0045	RVV
Selenium, total	<0.0040	0.0040	mg/L	4		03/11/25 1542	03/13/25 0045	RVV
Silver, total	<0.0040	0.0040	mg/L	4		03/11/25 1542	03/13/25 0045	RVV
Thallium, total	<0.0020	0.0020	mg/L	4		03/11/25 1542	03/13/25 0045	RVV
Vanadium, total	<0.0200	0.0200	mg/L	4		03/11/25 1542	03/13/25 0045	RVV
Zinc, total	<0.0200	0.0200	mg/L	4		03/11/25 1542	03/13/25 0045	RVV

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CERTIFICATE OF ANALYSIS

11C0573

Client Sample ID: MW-3A
Sample Matrix: Aqueous
Lab Sample ID: 11C0573-05

Collected By: JGH
Collection Date: 03/06/2025 12:11

Determination of Volatile Organic Compounds	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 8260D								
Chloromethane	<1.0	1.0	ug/L	1		03/19/25 0000	03/20/25 0520	CSM
Vinyl Chloride	<1.0	1.0	ug/L	1		03/19/25 0000	03/20/25 0520	CSM
Bromomethane	<1.0	1.0	ug/L	1		03/19/25 0000	03/20/25 0520	CSM
Chloroethane	<1.0	1.0	ug/L	1		03/19/25 0000	03/20/25 0520	CSM
Trichlorofluoromethane	<1.0	1.0	ug/L	1		03/19/25 0000	03/20/25 0520	CSM
1,1-Dichloroethylene	<1.0	1.0	ug/L	1		03/11/25 0000	03/12/25 0805	RAF
Acetone	<10.0	10.0	ug/L	1		03/11/25 0000	03/12/25 0805	RAF
Methyl Iodide	<1.0	1.0	ug/L	1		03/11/25 0000	03/12/25 0805	RAF
Carbon Disulfide	<1.0	1.0	ug/L	1		03/11/25 0000	03/12/25 0805	RAF
Methylene Chloride	<5.0	5.0	ug/L	1		03/11/25 0000	03/12/25 0805	RAF
Acrylonitrile	<5.0	5.0	ug/L	1		03/11/25 0000	03/12/25 0805	RAF
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		03/11/25 0000	03/12/25 0805	RAF
1,1-Dichloroethane	<1.0	1.0	ug/L	1		03/11/25 0000	03/12/25 0805	RAF
Vinyl Acetate	<5.0	5.0	ug/L	1		03/11/25 0000	03/12/25 0805	RAF
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		03/11/25 0000	03/12/25 0805	RAF
2-Butanone (MEK)	<10.0	10.0	ug/L	1		03/11/25 0000	03/12/25 0805	RAF
Bromochloromethane	<1.0	1.0	ug/L	1		03/11/25 0000	03/12/25 0805	RAF
Chloroform	<1.0	1.0	ug/L	1		03/11/25 0000	03/12/25 0805	RAF
1,1,1-Trichloroethane	<1.0	1.0	ug/L	1		03/19/25 0000	03/20/25 0520	CSM
Carbon Tetrachloride	<1.0	1.0	ug/L	1		03/19/25 0000	03/20/25 0520	CSM
Benzene	<1.0	1.0	ug/L	1		03/11/25 0000	03/12/25 0805	RAF
1,2-Dichloroethane	<1.0	1.0	ug/L	1		03/11/25 0000	03/12/25 0805	RAF
Trichloroethylene	<1.0	1.0	ug/L	1		03/19/25 0000	03/20/25 0520	CSM
1,2-Dichloropropane	<1.0	1.0	ug/L	1		03/11/25 0000	03/12/25 0805	RAF
Dibromomethane	<1.0	1.0	ug/L	1		03/11/25 0000	03/12/25 0805	RAF
Bromodichloromethane	<1.0	1.0	ug/L	1		03/11/25 0000	03/12/25 0805	RAF
cis-1,3-Dichloropropene	<1.0	1.0	ug/L	1		03/11/25 0000	03/12/25 0805	RAF
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L	1		03/11/25 0000	03/12/25 0805	RAF
Toluene	<1.0	1.0	ug/L	1		03/11/25 0000	03/12/25 0805	RAF
trans-1,3-Dichloropropene	<1.0	1.0	ug/L	1		03/11/25 0000	03/12/25 0805	RAF
1,1,2-Trichloroethane	<1.0	1.0	ug/L	1		03/11/25 0000	03/12/25 0805	RAF
Tetrachloroethylene	<1.0	1.0	ug/L	1		03/19/25 0000	03/20/25 0520	CSM
2-Hexanone (MBK)	<5.0	5.0	ug/L	1		03/11/25 0000	03/12/25 0805	RAF
Dibromochloromethane	<1.0	1.0	ug/L	1		03/11/25 0000	03/12/25 0805	RAF
1,2-Dibromoethane	<1.0	1.0	ug/L	1		03/11/25 0000	03/12/25 0805	RAF
Chlorobenzene	<1.0	1.0	ug/L	1		03/11/25 0000	03/12/25 0805	RAF
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L	1		03/11/25 0000	03/12/25 0805	RAF
Ethylbenzene	<1.0	1.0	ug/L	1		03/11/25 0000	03/12/25 0805	RAF
Xylenes, total	<2.0	2.0	ug/L	1		03/11/25 0000	03/12/25 0805	RAF
Styrene	<1.0	1.0	ug/L	1		03/11/25 0000	03/12/25 0805	RAF
Bromoform	<1.0	1.0	ug/L	1		03/11/25 0000	03/12/25 0805	RAF
1,2,3-Trichloropropane	<1.0	1.0	ug/L	1		03/11/25 0000	03/12/25 0805	RAF

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CERTIFICATE OF ANALYSIS

11C0573

Client Sample ID: MW-3A
Sample Matrix: Aqueous
Lab Sample ID: 11C0573-05

Collected By: JGH
Collection Date: 03/06/2025 12:11

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		03/11/25 0000	03/12/25 0805	RAF
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L	1		03/11/25 0000	03/12/25 0805	RAF
1,4-Dichlorobenzene	<1.0	1.0	ug/L	1		03/11/25 0000	03/12/25 0805	RAF
1,2-Dichlorobenzene	<1.0	1.0	ug/L	1		03/11/25 0000	03/12/25 0805	RAF
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L	1		03/11/25 0000	03/12/25 0805	RAF
Surrogate: Dibromofluoromethane	62.9	Limit: 75-136	% Rec	1	S2	03/19/25 0000	03/20/25 0520	CSM
Surrogate: Dibromofluoromethane	102	Limit: 57-134	% Rec	1		03/11/25 0000	03/12/25 0805	RAF
Surrogate: Dibromofluoromethane	102	Limit: 75-136	% Rec	1		03/11/25 0000	03/12/25 0805	RAF
Surrogate: 1,2-Dichloroethane-d4	98.6	Limit: 61-142	% Rec	1		03/11/25 0000	03/12/25 0805	RAF
Surrogate: 1,2-Dichloroethane-d4	58.5	Limit: 61-142	% Rec	1	S2	03/19/25 0000	03/20/25 0520	CSM
Surrogate: 1,2-Dichloroethane-d4	98.6	Limit: 53-140	% Rec	1		03/11/25 0000	03/12/25 0805	RAF
Surrogate: Toluene-d8	104	Limit: 82-121	% Rec	1		03/19/25 0000	03/20/25 0520	CSM
Surrogate: Toluene-d8	95.9	Limit: 86-114	% Rec	1		03/11/25 0000	03/12/25 0805	RAF
Surrogate: Toluene-d8	95.9	Limit: 82-121	% Rec	1		03/11/25 0000	03/12/25 0805	RAF
Surrogate: 4-Bromofluorobenzene	88.6	Limit: 80-116	% Rec	1		03/19/25 0000	03/20/25 0520	CSM
Surrogate: 4-Bromofluorobenzene	93.5	Limit: 80-116	% Rec	1		03/11/25 0000	03/12/25 0805	RAF
Surrogate: 4-Bromofluorobenzene	93.5	Limit: 78-121	% Rec	1		03/11/25 0000	03/12/25 0805	RAF

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		03/11/25 1542	03/13/25 0051	RVV
Arsenic, total	<0.0040	0.0040	mg/L	4		03/11/25 1542	03/13/25 0051	RVV
Barium, total	0.0670	0.0040	mg/L	4		03/11/25 1542	03/13/25 0051	RVV
Beryllium, total	<0.0040	0.0040	mg/L	4		03/11/25 1542	03/13/25 0051	RVV
Cadmium, total	<0.0008	0.0008	mg/L	4		03/11/25 1542	03/13/25 0051	RVV
Chromium, total	<0.0080	0.0080	mg/L	4		03/11/25 1542	03/13/25 0051	RVV
Cobalt, total	0.0004	0.0004	mg/L	4		03/11/25 1542	03/13/25 0051	RVV
Copper, total	<0.0040	0.0040	mg/L	4		03/11/25 1542	03/13/25 0051	RVV
Lead, total	<0.0040	0.0040	mg/L	4		03/11/25 1542	03/13/25 0051	RVV
Nickel, total	<0.0040	0.0040	mg/L	4		03/11/25 1542	03/13/25 0051	RVV
Selenium, total	<0.0040	0.0040	mg/L	4		03/11/25 1542	03/13/25 0051	RVV
Silver, total	<0.0040	0.0040	mg/L	4		03/11/25 1542	03/13/25 0051	RVV
Thallium, total	<0.0020	0.0020	mg/L	4		03/11/25 1542	03/13/25 0051	RVV
Vanadium, total	<0.0200	0.0200	mg/L	4		03/11/25 1542	03/13/25 0051	RVV
Zinc, total	<0.0200	0.0200	mg/L	4		03/11/25 1542	03/13/25 0051	RVV

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CERTIFICATE OF ANALYSIS

11C0573

Client Sample ID: MW-8
Sample Matrix: Aqueous
Lab Sample ID: 11C0573-06

Collected By: JGH
Collection Date: 03/06/2025 10:56

Determination of Volatile Organic Compounds	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 8260D								
Chloromethane	<1.0	1.0	ug/L	1		03/19/25 0000	03/20/25 0542	CSM
Vinyl Chloride	<1.0	1.0	ug/L	1		03/19/25 0000	03/20/25 0542	CSM
Bromomethane	<1.0	1.0	ug/L	1		03/19/25 0000	03/20/25 0542	CSM
Chloroethane	<1.0	1.0	ug/L	1		03/19/25 0000	03/20/25 0542	CSM
Trichlorofluoromethane	<1.0	1.0	ug/L	1		03/19/25 0000	03/20/25 0542	CSM
1,1-Dichloroethylene	<1.0	1.0	ug/L	1		03/11/25 0000	03/12/25 0828	RAF
Acetone	<10.0	10.0	ug/L	1		03/11/25 0000	03/12/25 0828	RAF
Methyl Iodide	<1.0	1.0	ug/L	1		03/11/25 0000	03/12/25 0828	RAF
Carbon Disulfide	<1.0	1.0	ug/L	1		03/11/25 0000	03/12/25 0828	RAF
Methylene Chloride	<5.0	5.0	ug/L	1		03/11/25 0000	03/12/25 0828	RAF
Acrylonitrile	<5.0	5.0	ug/L	1		03/11/25 0000	03/12/25 0828	RAF
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		03/11/25 0000	03/12/25 0828	RAF
1,1-Dichloroethane	<1.0	1.0	ug/L	1		03/11/25 0000	03/12/25 0828	RAF
Vinyl Acetate	<5.0	5.0	ug/L	1		03/11/25 0000	03/12/25 0828	RAF
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		03/11/25 0000	03/12/25 0828	RAF
2-Butanone (MEK)	<10.0	10.0	ug/L	1		03/11/25 0000	03/12/25 0828	RAF
Bromochloromethane	<1.0	1.0	ug/L	1		03/11/25 0000	03/12/25 0828	RAF
Chloroform	<1.0	1.0	ug/L	1		03/11/25 0000	03/12/25 0828	RAF
1,1,1-Trichloroethane	<1.0	1.0	ug/L	1		03/19/25 0000	03/20/25 0542	CSM
Carbon Tetrachloride	<1.0	1.0	ug/L	1		03/19/25 0000	03/20/25 0542	CSM
Benzene	<1.0	1.0	ug/L	1		03/11/25 0000	03/12/25 0828	RAF
1,2-Dichloroethane	<1.0	1.0	ug/L	1		03/11/25 0000	03/12/25 0828	RAF
Trichloroethylene	<1.0	1.0	ug/L	1		03/19/25 0000	03/20/25 0542	CSM
1,2-Dichloropropane	<1.0	1.0	ug/L	1		03/11/25 0000	03/12/25 0828	RAF
Dibromomethane	<1.0	1.0	ug/L	1		03/11/25 0000	03/12/25 0828	RAF
Bromodichloromethane	<1.0	1.0	ug/L	1		03/11/25 0000	03/12/25 0828	RAF
cis-1,3-Dichloropropene	<1.0	1.0	ug/L	1		03/11/25 0000	03/12/25 0828	RAF
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L	1		03/11/25 0000	03/12/25 0828	RAF
Toluene	<1.0	1.0	ug/L	1		03/11/25 0000	03/12/25 0828	RAF
trans-1,3-Dichloropropene	<1.0	1.0	ug/L	1		03/11/25 0000	03/12/25 0828	RAF
1,1,2-Trichloroethane	<1.0	1.0	ug/L	1		03/11/25 0000	03/12/25 0828	RAF
Tetrachloroethylene	<1.0	1.0	ug/L	1		03/19/25 0000	03/20/25 0542	CSM
2-Hexanone (MBK)	<5.0	5.0	ug/L	1		03/11/25 0000	03/12/25 0828	RAF
Dibromochloromethane	<1.0	1.0	ug/L	1		03/11/25 0000	03/12/25 0828	RAF
1,2-Dibromoethane	<1.0	1.0	ug/L	1		03/11/25 0000	03/12/25 0828	RAF
Chlorobenzene	<1.0	1.0	ug/L	1		03/11/25 0000	03/12/25 0828	RAF
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L	1		03/11/25 0000	03/12/25 0828	RAF
Ethylbenzene	<1.0	1.0	ug/L	1		03/11/25 0000	03/12/25 0828	RAF
Xylenes, total	<2.0	2.0	ug/L	1		03/11/25 0000	03/12/25 0828	RAF
Styrene	<1.0	1.0	ug/L	1		03/11/25 0000	03/12/25 0828	RAF
Bromoform	<1.0	1.0	ug/L	1		03/11/25 0000	03/12/25 0828	RAF
1,2,3-Trichloropropane	<1.0	1.0	ug/L	1		03/11/25 0000	03/12/25 0828	RAF

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CERTIFICATE OF ANALYSIS

11C0573

Client Sample ID: MW-8
Sample Matrix: Aqueous
Lab Sample ID: 11C0573-06

Collected By: JGH
Collection Date: 03/06/2025 10:56

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		03/11/25 0000	03/12/25 0828	RAF
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L	1		03/11/25 0000	03/12/25 0828	RAF
1,4-Dichlorobenzene	<1.0	1.0	ug/L	1		03/11/25 0000	03/12/25 0828	RAF
1,2-Dichlorobenzene	<1.0	1.0	ug/L	1		03/11/25 0000	03/12/25 0828	RAF
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L	1		03/11/25 0000	03/12/25 0828	RAF
Surrogate: Dibromofluoromethane	104	Limit: 57-134	% Rec	1		03/11/25 0000	03/12/25 0828	RAF
Surrogate: Dibromofluoromethane	60.4	Limit: 75-136	% Rec	1	S2	03/19/25 0000	03/20/25 0542	CSM
Surrogate: Dibromofluoromethane	104	Limit: 75-136	% Rec	1		03/11/25 0000	03/12/25 0828	RAF
Surrogate: 1,2-Dichloroethane-d4	101	Limit: 53-140	% Rec	1		03/11/25 0000	03/12/25 0828	RAF
Surrogate: 1,2-Dichloroethane-d4	101	Limit: 61-142	% Rec	1		03/11/25 0000	03/12/25 0828	RAF
Surrogate: 1,2-Dichloroethane-d4	57.6	Limit: 61-142	% Rec	1	S2	03/19/25 0000	03/20/25 0542	CSM
Surrogate: Toluene-d8	95.8	Limit: 86-114	% Rec	1		03/11/25 0000	03/12/25 0828	RAF
Surrogate: Toluene-d8	104	Limit: 82-121	% Rec	1		03/19/25 0000	03/20/25 0542	CSM
Surrogate: Toluene-d8	95.8	Limit: 82-121	% Rec	1		03/11/25 0000	03/12/25 0828	RAF
Surrogate: 4-Bromofluorobenzene	95.1	Limit: 78-121	% Rec	1		03/11/25 0000	03/12/25 0828	RAF
Surrogate: 4-Bromofluorobenzene	89.5	Limit: 80-116	% Rec	1		03/19/25 0000	03/20/25 0542	CSM
Surrogate: 4-Bromofluorobenzene	95.1	Limit: 80-116	% Rec	1		03/11/25 0000	03/12/25 0828	RAF

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		03/11/25 1542	03/13/25 0057	RVV
Arsenic, total	<0.0040	0.0040	mg/L	4		03/11/25 1542	03/13/25 0057	RVV
Barium, total	0.208	0.0040	mg/L	4		03/11/25 1542	03/13/25 0057	RVV
Beryllium, total	<0.0040	0.0040	mg/L	4		03/11/25 1542	03/13/25 0057	RVV
Cadmium, total	<0.0008	0.0008	mg/L	4		03/11/25 1542	03/13/25 0057	RVV
Chromium, total	<0.0080	0.0080	mg/L	4		03/11/25 1542	03/13/25 0057	RVV
Cobalt, total	0.0008	0.0004	mg/L	4		03/11/25 1542	03/13/25 0057	RVV
Copper, total	<0.0040	0.0040	mg/L	4		03/11/25 1542	03/13/25 0057	RVV
Lead, total	<0.0040	0.0040	mg/L	4		03/11/25 1542	03/13/25 0057	RVV
Nickel, total	0.0054	0.0040	mg/L	4		03/11/25 1542	03/13/25 0057	RVV
Selenium, total	<0.0040	0.0040	mg/L	4		03/11/25 1542	03/13/25 0057	RVV
Silver, total	<0.0040	0.0040	mg/L	4		03/11/25 1542	03/13/25 0057	RVV
Thallium, total	<0.0020	0.0020	mg/L	4		03/11/25 1542	03/13/25 0057	RVV
Vanadium, total	<0.0200	0.0200	mg/L	4		03/11/25 1542	03/13/25 0057	RVV
Zinc, total	<0.0200	0.0200	mg/L	4		03/11/25 1542	03/13/25 0057	RVV

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CERTIFICATE OF ANALYSIS

11C0573

Client Sample ID: MW-10
Sample Matrix: Aqueous
Lab Sample ID: 11C0573-07

Collected By: JGH
Collection Date: 03/06/2025 11:11

Determination of Volatile Organic Compounds	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 8260D								
Chloromethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1623	CSM
Vinyl Chloride	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1623	CSM
Bromomethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1623	CSM
Chloroethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1623	CSM
Trichlorofluoromethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1623	CSM
1,1-Dichloroethylene	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1623	CSM
Acetone	<10.0	10.0	ug/L	1		03/13/25 0000	03/13/25 1623	CSM
Methyl Iodide	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1623	CSM
Carbon Disulfide	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1623	CSM
Methylene Chloride	<5.0	5.0	ug/L	1		03/13/25 0000	03/13/25 1623	CSM
Acrylonitrile	<5.0	5.0	ug/L	1		03/13/25 0000	03/13/25 1623	CSM
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1623	CSM
1,1-Dichloroethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1623	CSM
Vinyl Acetate	<5.0	5.0	ug/L	1		03/13/25 0000	03/13/25 1623	CSM
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1623	CSM
2-Butanone (MEK)	<10.0	10.0	ug/L	1		03/13/25 0000	03/13/25 1623	CSM
Bromochloromethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1623	CSM
Chloroform	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1623	CSM
1,1,1-Trichloroethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1623	CSM
Carbon Tetrachloride	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1623	CSM
Benzene	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1623	CSM
1,2-Dichloroethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1623	CSM
Trichloroethylene	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1623	CSM
1,2-Dichloropropane	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1623	CSM
Dibromomethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1623	CSM
Bromodichloromethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1623	CSM
cis-1,3-Dichloropropene	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1623	CSM
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L	1		03/19/25 0000	03/20/25 0604	CSM
Toluene	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1623	CSM
trans-1,3-Dichloropropene	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1623	CSM
1,1,2-Trichloroethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1623	CSM
Tetrachloroethylene	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1623	CSM
2-Hexanone (MBK)	<5.0	5.0	ug/L	1		03/19/25 0000	03/20/25 0604	CSM
Dibromochloromethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1623	CSM
1,2-Dibromoethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1623	CSM
Chlorobenzene	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1623	CSM
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1623	CSM
Ethylbenzene	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1623	CSM
Xylenes, total	<2.0	2.0	ug/L	1		03/13/25 0000	03/13/25 1623	CSM
Styrene	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1623	CSM
Bromoform	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1623	CSM
1,2,3-Trichloropropane	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1623	CSM

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CERTIFICATE OF ANALYSIS

11C0573

Client Sample ID: MW-10
Sample Matrix: Aqueous
Lab Sample ID: 11C0573-07

Collected By: JGH
Collection Date: 03/06/2025 11:11

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		03/13/25 0000	03/13/25 1623	CSM
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1623	CSM
1,4-Dichlorobenzene	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1623	CSM
1,2-Dichlorobenzene	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1623	CSM
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L	1		03/19/25 0000	03/20/25 0604	CSM
Surrogate: Dibromofluoromethane	83.0	Limit: 75-136	% Rec	1		03/13/25 0000	03/13/25 1623	CSM
Surrogate: Dibromofluoromethane	58.5	Limit: 75-136	% Rec	1	S2	03/19/25 0000	03/20/25 0604	CSM
Surrogate: Dibromofluoromethane	83.0	Limit: 57-134	% Rec	1		03/13/25 0000	03/13/25 1623	CSM
Surrogate: 1,2-Dichloroethane-d4	69.3	Limit: 53-140	% Rec	1		03/13/25 0000	03/13/25 1623	CSM
Surrogate: 1,2-Dichloroethane-d4	56.0	Limit: 61-142	% Rec	1	S2	03/19/25 0000	03/20/25 0604	CSM
Surrogate: 1,2-Dichloroethane-d4	69.3	Limit: 61-142	% Rec	1		03/13/25 0000	03/13/25 1623	CSM
Surrogate: Toluene-d8	97.0	Limit: 82-121	% Rec	1		03/13/25 0000	03/13/25 1623	CSM
Surrogate: Toluene-d8	104	Limit: 82-121	% Rec	1		03/19/25 0000	03/20/25 0604	CSM
Surrogate: Toluene-d8	97.0	Limit: 86-114	% Rec	1		03/13/25 0000	03/13/25 1623	CSM
Surrogate: 4-Bromofluorobenzene	90.9	Limit: 80-116	% Rec	1		03/13/25 0000	03/13/25 1623	CSM
Surrogate: 4-Bromofluorobenzene	90.9	Limit: 78-121	% Rec	1		03/13/25 0000	03/13/25 1623	CSM
Surrogate: 4-Bromofluorobenzene	90.3	Limit: 80-116	% Rec	1		03/19/25 0000	03/20/25 0604	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		03/11/25 1542	03/13/25 0103	RVV
Arsenic, total	<0.0040	0.0040	mg/L	4		03/11/25 1542	03/13/25 0103	RVV
Barium, total	0.432	0.0040	mg/L	4		03/11/25 1542	03/13/25 0103	RVV
Beryllium, total	<0.0040	0.0040	mg/L	4		03/11/25 1542	03/13/25 0103	RVV
Cadmium, total	<0.0008	0.0008	mg/L	4		03/11/25 1542	03/13/25 0103	RVV
Chromium, total	<0.0080	0.0080	mg/L	4		03/11/25 1542	03/13/25 0103	RVV
Cobalt, total	0.0025	0.0004	mg/L	4		03/11/25 1542	03/13/25 0103	RVV
Copper, total	<0.0040	0.0040	mg/L	4		03/11/25 1542	03/13/25 0103	RVV
Lead, total	<0.0040	0.0040	mg/L	4		03/11/25 1542	03/13/25 0103	RVV
Nickel, total	0.0174	0.0040	mg/L	4		03/11/25 1542	03/13/25 0103	RVV
Selenium, total	<0.0040	0.0040	mg/L	4		03/11/25 1542	03/13/25 0103	RVV
Silver, total	<0.0040	0.0040	mg/L	4		03/11/25 1542	03/13/25 0103	RVV
Thallium, total	<0.0020	0.0020	mg/L	4		03/11/25 1542	03/13/25 0103	RVV
Vanadium, total	<0.0200	0.0200	mg/L	4		03/11/25 1542	03/13/25 0103	RVV
Zinc, total	<0.0200	0.0200	mg/L	4		03/11/25 1542	03/13/25 0103	RVV

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CERTIFICATE OF ANALYSIS

1IC0573

Client Sample ID:	MW-11	Collected By:	JGH
Sample Matrix:	Aqueous	Collection Date:	03/06/2025 11:17
Lab Sample ID:	1IC0573-08		

Determination of Total Metals	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A								
Cobalt, total	<0.0004	0.0004	mg/L	4		03/11/25 1542	03/13/25 0109	RVV



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CERTIFICATE OF ANALYSIS

11C0573

Client Sample ID: MW-27
Sample Matrix: Aqueous
Lab Sample ID: 11C0573-09

Collected By: JGH
Collection Date: 03/06/2025 11:32

Determination of Volatile Organic Compounds	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 8260D								
Chloromethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1645	CSM
Vinyl Chloride	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1645	CSM
Bromomethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1645	CSM
Chloroethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1645	CSM
Trichlorofluoromethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1645	CSM
1,1-Dichloroethylene	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1645	CSM
Acetone	<10.0	10.0	ug/L	1		03/13/25 0000	03/13/25 1645	CSM
Methyl Iodide	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1645	CSM
Carbon Disulfide	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1645	CSM
Methylene Chloride	<5.0	5.0	ug/L	1		03/13/25 0000	03/13/25 1645	CSM
Acrylonitrile	<5.0	5.0	ug/L	1		03/13/25 0000	03/13/25 1645	CSM
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1645	CSM
1,1-Dichloroethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1645	CSM
Vinyl Acetate	<5.0	5.0	ug/L	1		03/13/25 0000	03/13/25 1645	CSM
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1645	CSM
2-Butanone (MEK)	<10.0	10.0	ug/L	1		03/13/25 0000	03/13/25 1645	CSM
Bromochloromethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1645	CSM
Chloroform	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1645	CSM
1,1,1-Trichloroethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1645	CSM
Carbon Tetrachloride	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1645	CSM
Benzene	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1645	CSM
1,2-Dichloroethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1645	CSM
Trichloroethylene	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1645	CSM
1,2-Dichloropropane	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1645	CSM
Dibromomethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1645	CSM
Bromodichloromethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1645	CSM
cis-1,3-Dichloropropene	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1645	CSM
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L	1		03/19/25 0000	03/20/25 0627	CSM
Toluene	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1645	CSM
trans-1,3-Dichloropropene	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1645	CSM
1,1,2-Trichloroethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1645	CSM
Tetrachloroethylene	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1645	CSM
2-Hexanone (MBK)	<5.0	5.0	ug/L	1		03/19/25 0000	03/20/25 0627	CSM
Dibromochloromethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1645	CSM
1,2-Dibromoethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1645	CSM
Chlorobenzene	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1645	CSM
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1645	CSM
Ethylbenzene	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1645	CSM
Xylenes, total	<2.0	2.0	ug/L	1		03/13/25 0000	03/13/25 1645	CSM
Styrene	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1645	CSM
Bromoform	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1645	CSM
1,2,3-Trichloropropane	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1645	CSM

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CERTIFICATE OF ANALYSIS

11C0573

Client Sample ID: MW-27
Sample Matrix: Aqueous
Lab Sample ID: 11C0573-09

Collected By: JGH
Collection Date: 03/06/2025 11:32

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		03/13/25 0000	03/13/25 1645	CSM
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1645	CSM
1,4-Dichlorobenzene	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1645	CSM
1,2-Dichlorobenzene	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1645	CSM
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L	1		03/19/25 0000	03/20/25 0627	CSM
Surrogate: Dibromofluoromethane	89.3	Limit: 75-136	% Rec	1		03/13/25 0000	03/13/25 1645	CSM
Surrogate: Dibromofluoromethane	63.5	Limit: 75-136	% Rec	1	S2	03/19/25 0000	03/20/25 0627	CSM
Surrogate: Dibromofluoromethane	89.3	Limit: 57-134	% Rec	1		03/13/25 0000	03/13/25 1645	CSM
Surrogate: 1,2-Dichloroethane-d4	76.2	Limit: 61-142	% Rec	1		03/13/25 0000	03/13/25 1645	CSM
Surrogate: 1,2-Dichloroethane-d4	62.6	Limit: 61-142	% Rec	1		03/19/25 0000	03/20/25 0627	CSM
Surrogate: 1,2-Dichloroethane-d4	76.2	Limit: 53-140	% Rec	1		03/13/25 0000	03/13/25 1645	CSM
Surrogate: Toluene-d8	98.2	Limit: 86-114	% Rec	1		03/13/25 0000	03/13/25 1645	CSM
Surrogate: Toluene-d8	103	Limit: 82-121	% Rec	1		03/19/25 0000	03/20/25 0627	CSM
Surrogate: Toluene-d8	98.2	Limit: 82-121	% Rec	1		03/13/25 0000	03/13/25 1645	CSM
Surrogate: 4-Bromofluorobenzene	91.8	Limit: 80-116	% Rec	1		03/13/25 0000	03/13/25 1645	CSM
Surrogate: 4-Bromofluorobenzene	88.8	Limit: 80-116	% Rec	1		03/19/25 0000	03/20/25 0627	CSM
Surrogate: 4-Bromofluorobenzene	91.8	Limit: 78-121	% Rec	1		03/13/25 0000	03/13/25 1645	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		03/11/25 1542	03/13/25 0115	RVV
Arsenic, total	<0.0040	0.0040	mg/L	4		03/11/25 1542	03/13/25 0115	RVV
Barium, total	0.154	0.0040	mg/L	4		03/11/25 1542	03/13/25 0115	RVV
Beryllium, total	<0.0040	0.0040	mg/L	4		03/11/25 1542	03/13/25 0115	RVV
Cadmium, total	<0.0008	0.0008	mg/L	4		03/11/25 1542	03/13/25 0115	RVV
Chromium, total	<0.0080	0.0080	mg/L	4		03/11/25 1542	03/13/25 0115	RVV
Cobalt, total	<0.0004	0.0004	mg/L	4		03/11/25 1542	03/13/25 0115	RVV
Copper, total	<0.0040	0.0040	mg/L	4		03/11/25 1542	03/13/25 0115	RVV
Lead, total	<0.0040	0.0040	mg/L	4		03/11/25 1542	03/13/25 0115	RVV
Nickel, total	<0.0040	0.0040	mg/L	4		03/11/25 1542	03/13/25 0115	RVV
Selenium, total	<0.0040	0.0040	mg/L	4		03/11/25 1542	03/13/25 0115	RVV
Silver, total	<0.0040	0.0040	mg/L	4		03/11/25 1542	03/13/25 0115	RVV
Thallium, total	<0.0020	0.0020	mg/L	4		03/11/25 1542	03/13/25 0115	RVV
Vanadium, total	<0.0200	0.0200	mg/L	4		03/11/25 1542	03/13/25 0115	RVV
Zinc, total	<0.0200	0.0200	mg/L	4		03/11/25 1542	03/13/25 0115	RVV

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CERTIFICATE OF ANALYSIS

11C0573

Client Sample ID: MW-34
Sample Matrix: Aqueous
Lab Sample ID: 11C0573-10

Collected By: JGH
Collection Date: 03/06/2025 12:00

Determination of Volatile Organic Compounds	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 8260D								
Chloromethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1707	CSM
Vinyl Chloride	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1707	CSM
Bromomethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1707	CSM
Chloroethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1707	CSM
Trichlorofluoromethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1707	CSM
1,1-Dichloroethylene	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1707	CSM
Acetone	<10.0	10.0	ug/L	1		03/13/25 0000	03/13/25 1707	CSM
Methyl Iodide	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1707	CSM
Carbon Disulfide	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1707	CSM
Methylene Chloride	<5.0	5.0	ug/L	1		03/13/25 0000	03/13/25 1707	CSM
Acrylonitrile	<5.0	5.0	ug/L	1		03/13/25 0000	03/13/25 1707	CSM
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1707	CSM
1,1-Dichloroethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1707	CSM
Vinyl Acetate	<5.0	5.0	ug/L	1		03/13/25 0000	03/13/25 1707	CSM
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1707	CSM
2-Butanone (MEK)	<10.0	10.0	ug/L	1		03/13/25 0000	03/13/25 1707	CSM
Bromochloromethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1707	CSM
Chloroform	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1707	CSM
1,1,1-Trichloroethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1707	CSM
Carbon Tetrachloride	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1707	CSM
Benzene	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1707	CSM
1,2-Dichloroethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1707	CSM
Trichloroethylene	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1707	CSM
1,2-Dichloropropane	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1707	CSM
Dibromomethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1707	CSM
Bromodichloromethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1707	CSM
cis-1,3-Dichloropropene	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1707	CSM
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L	1		03/19/25 0000	03/20/25 0649	CSM
Toluene	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1707	CSM
trans-1,3-Dichloropropene	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1707	CSM
1,1,2-Trichloroethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1707	CSM
Tetrachloroethylene	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1707	CSM
2-Hexanone (MBK)	<5.0	5.0	ug/L	1		03/19/25 0000	03/20/25 0649	CSM
Dibromochloromethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1707	CSM
1,2-Dibromoethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1707	CSM
Chlorobenzene	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1707	CSM
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1707	CSM
Ethylbenzene	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1707	CSM
Xylenes, total	<2.0	2.0	ug/L	1		03/13/25 0000	03/13/25 1707	CSM
Styrene	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1707	CSM
Bromoform	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1707	CSM
1,2,3-Trichloropropane	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1707	CSM

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CERTIFICATE OF ANALYSIS

11C0573

Client Sample ID: MW-34
Sample Matrix: Aqueous
Lab Sample ID: 11C0573-10

Collected By: JGH
Collection Date: 03/06/2025 12:00

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		03/13/25 0000	03/13/25 1707	CSM
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1707	CSM
1,4-Dichlorobenzene	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1707	CSM
1,2-Dichlorobenzene	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1707	CSM
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L	1		03/19/25 0000	03/20/25 0649	CSM
Surrogate: Dibromofluoromethane	63.2	Limit: 75-136	% Rec	1	S2	03/19/25 0000	03/20/25 0649	CSM
Surrogate: Dibromofluoromethane	90.8	Limit: 57-134	% Rec	1		03/13/25 0000	03/13/25 1707	CSM
Surrogate: Dibromofluoromethane	90.8	Limit: 75-136	% Rec	1		03/13/25 0000	03/13/25 1707	CSM
Surrogate: 1,2-Dichloroethane-d4	78.2	Limit: 61-142	% Rec	1		03/13/25 0000	03/13/25 1707	CSM
Surrogate: 1,2-Dichloroethane-d4	61.2	Limit: 61-142	% Rec	1		03/19/25 0000	03/20/25 0649	CSM
Surrogate: 1,2-Dichloroethane-d4	78.2	Limit: 53-140	% Rec	1		03/13/25 0000	03/13/25 1707	CSM
Surrogate: Toluene-d8	105	Limit: 86-114	% Rec	1		03/13/25 0000	03/13/25 1707	CSM
Surrogate: Toluene-d8	102	Limit: 82-121	% Rec	1		03/19/25 0000	03/20/25 0649	CSM
Surrogate: Toluene-d8	105	Limit: 82-121	% Rec	1		03/13/25 0000	03/13/25 1707	CSM
Surrogate: 4-Bromofluorobenzene	91.8	Limit: 80-116	% Rec	1		03/13/25 0000	03/13/25 1707	CSM
Surrogate: 4-Bromofluorobenzene	91.8	Limit: 78-121	% Rec	1		03/13/25 0000	03/13/25 1707	CSM
Surrogate: 4-Bromofluorobenzene	88.1	Limit: 80-116	% Rec	1		03/19/25 0000	03/20/25 0649	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		03/11/25 1542	03/13/25 0122	RVV
Arsenic, total	<0.0040	0.0040	mg/L	4		03/11/25 1542	03/13/25 0122	RVV
Barium, total	0.0894	0.0040	mg/L	4		03/11/25 1542	03/13/25 0122	RVV
Beryllium, total	<0.0040	0.0040	mg/L	4		03/11/25 1542	03/13/25 0122	RVV
Cadmium, total	<0.0008	0.0008	mg/L	4		03/11/25 1542	03/13/25 0122	RVV
Chromium, total	<0.0080	0.0080	mg/L	4		03/11/25 1542	03/13/25 0122	RVV
Cobalt, total	<0.0004	0.0004	mg/L	4		03/11/25 1542	03/13/25 0122	RVV
Copper, total	<0.0040	0.0040	mg/L	4		03/11/25 1542	03/13/25 0122	RVV
Lead, total	<0.0040	0.0040	mg/L	4		03/11/25 1542	03/13/25 0122	RVV
Nickel, total	<0.0040	0.0040	mg/L	4		03/11/25 1542	03/13/25 0122	RVV
Selenium, total	<0.0040	0.0040	mg/L	4		03/11/25 1542	03/13/25 0122	RVV
Silver, total	<0.0040	0.0040	mg/L	4		03/11/25 1542	03/13/25 0122	RVV
Thallium, total	<0.0020	0.0020	mg/L	4		03/11/25 1542	03/13/25 0122	RVV
Vanadium, total	<0.0200	0.0200	mg/L	4		03/11/25 1542	03/13/25 0122	RVV
Zinc, total	<0.0200	0.0200	mg/L	4		03/11/25 1542	03/13/25 0122	RVV

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CERTIFICATE OF ANALYSIS

11C0573

Client Sample ID: MW-35
Sample Matrix: Aqueous
Lab Sample ID: 11C0573-11

Collected By: JGH
Collection Date: 03/06/2025 12:22

Determination of Volatile Organic Compounds	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 8260D								
Dichlorodifluoromethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1730	CSM
Chloromethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1730	CSM
Vinyl Chloride	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1730	CSM
Bromomethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1730	CSM
Chloroethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1730	CSM
Trichlorofluoromethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1730	CSM
1,1-Dichloroethylene	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1730	CSM
Acetone	<10.0	10.0	ug/L	1		03/13/25 0000	03/13/25 1730	CSM
Methyl Iodide	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1730	CSM
Carbon Disulfide	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1730	CSM
Methylene Chloride	<5.0	5.0	ug/L	1		03/13/25 0000	03/13/25 1730	CSM
Acrylonitrile	<5.0	5.0	ug/L	1		03/13/25 0000	03/13/25 1730	CSM
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1730	CSM
1,1-Dichloroethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1730	CSM
Vinyl Acetate	<5.0	5.0	ug/L	1		03/13/25 0000	03/13/25 1730	CSM
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1730	CSM
2-Butanone (MEK)	<10.0	10.0	ug/L	1		03/13/25 0000	03/13/25 1730	CSM
Bromochloromethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1730	CSM
Chloroform	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1730	CSM
1,1,1-Trichloroethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1730	CSM
Carbon Tetrachloride	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1730	CSM
Benzene	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1730	CSM
1,2-Dichloroethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1730	CSM
Trichloroethylene	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1730	CSM
1,2-Dichloropropane	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1730	CSM
Dibromomethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1730	CSM
Bromodichloromethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1730	CSM
cis-1,3-Dichloropropene	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1730	CSM
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L	1		03/20/25 0000	03/20/25 2154	CSM
Toluene	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1730	CSM
trans-1,3-Dichloropropene	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1730	CSM
1,1,2-Trichloroethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1730	CSM
Tetrachloroethylene	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1730	CSM
2-Hexanone (MBK)	<5.0	5.0	ug/L	1		03/20/25 0000	03/20/25 2154	CSM
Dibromochloromethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1730	CSM
1,2-Dibromoethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1730	CSM
Chlorobenzene	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1730	CSM
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1730	CSM
Ethylbenzene	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1730	CSM
Xylenes, total	<2.0	2.0	ug/L	1		03/13/25 0000	03/13/25 1730	CSM
Styrene	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1730	CSM
Bromoform	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1730	CSM

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CERTIFICATE OF ANALYSIS

11C0573

Client Sample ID: MW-35
Sample Matrix: Aqueous
Lab Sample ID: 11C0573-11

Collected By: JGH
Collection Date: 03/06/2025 12:22

Determination of Volatile Organic Compounds	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
1,2,3-Trichloropropane	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1730	CSM
trans-1,4-Dichloro-2-butene	<5.0	5.0	ug/L	1		03/13/25 0000	03/13/25 1730	CSM
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1730	CSM
1,4-Dichlorobenzene	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1730	CSM
1,2-Dichlorobenzene	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1730	CSM
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L	1		03/20/25 0000	03/20/25 2154	CSM
Surrogate: Dibromofluoromethane	93.8	Limit: 75-136	% Rec	1		03/13/25 0000	03/13/25 1730	CSM
Surrogate: Dibromofluoromethane	93.8	Limit: 57-134	% Rec	1		03/13/25 0000	03/13/25 1730	CSM
Surrogate: Dibromofluoromethane	73.3	Limit: 75-136	% Rec	1	S2	03/20/25 0000	03/20/25 2154	CSM
Surrogate: 1,2-Dichloroethane-d4	72.4	Limit: 61-142	% Rec	1		03/20/25 0000	03/20/25 2154	CSM
Surrogate: 1,2-Dichloroethane-d4	81.7	Limit: 53-140	% Rec	1		03/13/25 0000	03/13/25 1730	CSM
Surrogate: 1,2-Dichloroethane-d4	81.7	Limit: 61-142	% Rec	1		03/13/25 0000	03/13/25 1730	CSM
Surrogate: Toluene-d8	97.1	Limit: 82-121	% Rec	1		03/13/25 0000	03/13/25 1730	CSM
Surrogate: Toluene-d8	103	Limit: 82-121	% Rec	1		03/20/25 0000	03/20/25 2154	CSM
Surrogate: Toluene-d8	97.1	Limit: 86-114	% Rec	1		03/13/25 0000	03/13/25 1730	CSM
Surrogate: 4-Bromofluorobenzene	90.6	Limit: 78-121	% Rec	1		03/13/25 0000	03/13/25 1730	CSM
Surrogate: 4-Bromofluorobenzene	105	Limit: 80-116	% Rec	1		03/20/25 0000	03/20/25 2154	CSM
Surrogate: 4-Bromofluorobenzene	90.6	Limit: 80-116	% Rec	1		03/13/25 0000	03/13/25 1730	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		03/11/25 1542	03/13/25 0128	RVV
Arsenic, total	<0.0040	0.0040	mg/L	4		03/11/25 1542	03/13/25 0128	RVV
Barium, total	0.435	0.0040	mg/L	4		03/11/25 1542	03/13/25 0128	RVV
Beryllium, total	<0.0040	0.0040	mg/L	4		03/11/25 1542	03/13/25 0128	RVV
Cadmium, total	<0.0008	0.0008	mg/L	4		03/11/25 1542	03/13/25 0128	RVV
Chromium, total	<0.0080	0.0080	mg/L	4		03/11/25 1542	03/13/25 0128	RVV
Cobalt, total	<0.0004	0.0004	mg/L	4		03/11/25 1542	03/13/25 0128	RVV
Copper, total	<0.0040	0.0040	mg/L	4		03/11/25 1542	03/13/25 0128	RVV
Lead, total	<0.0040	0.0040	mg/L	4		03/11/25 1542	03/13/25 0128	RVV
Nickel, total	<0.0040	0.0040	mg/L	4		03/11/25 1542	03/13/25 0128	RVV
Selenium, total	<0.0040	0.0040	mg/L	4		03/11/25 1542	03/13/25 0128	RVV
Silver, total	<0.0040	0.0040	mg/L	4		03/11/25 1542	03/13/25 0128	RVV
Thallium, total	<0.0020	0.0020	mg/L	4		03/11/25 1542	03/13/25 0128	RVV
Vanadium, total	<0.0200	0.0200	mg/L	4		03/11/25 1542	03/13/25 0128	RVV
Zinc, total	<0.0200	0.0200	mg/L	4		03/11/25 1542	03/13/25 0128	RVV

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CERTIFICATE OF ANALYSIS

11C0573

Client Sample ID: MW-36
Sample Matrix: Aqueous
Lab Sample ID: 11C0573-12

Collected By: JGH
Collection Date: 03/06/2025 12:34

Determination of Volatile Organic Compounds	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 8260D								
Chloromethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1752	CSM
Vinyl Chloride	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1752	CSM
Bromomethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1752	CSM
Chloroethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1752	CSM
Trichlorofluoromethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1752	CSM
1,1-Dichloroethylene	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1752	CSM
Acetone	<10.0	10.0	ug/L	1		03/13/25 0000	03/13/25 1752	CSM
Methyl Iodide	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1752	CSM
Carbon Disulfide	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1752	CSM
Methylene Chloride	<5.0	5.0	ug/L	1		03/13/25 0000	03/13/25 1752	CSM
Acrylonitrile	<5.0	5.0	ug/L	1		03/13/25 0000	03/13/25 1752	CSM
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1752	CSM
1,1-Dichloroethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1752	CSM
Vinyl Acetate	<5.0	5.0	ug/L	1		03/13/25 0000	03/13/25 1752	CSM
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1752	CSM
2-Butanone (MEK)	<10.0	10.0	ug/L	1		03/13/25 0000	03/13/25 1752	CSM
Bromochloromethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1752	CSM
Chloroform	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1752	CSM
1,1,1-Trichloroethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1752	CSM
Carbon Tetrachloride	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1752	CSM
Benzene	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1752	CSM
1,2-Dichloroethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1752	CSM
Trichloroethylene	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1752	CSM
1,2-Dichloropropane	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1752	CSM
Dibromomethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1752	CSM
Bromodichloromethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1752	CSM
cis-1,3-Dichloropropene	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1752	CSM
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L	1		03/20/25 0000	03/20/25 2216	CSM
Toluene	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1752	CSM
trans-1,3-Dichloropropene	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1752	CSM
1,1,2-Trichloroethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1752	CSM
Tetrachloroethylene	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1752	CSM
2-Hexanone (MBK)	<5.0	5.0	ug/L	1		03/20/25 0000	03/20/25 2216	CSM
Dibromochloromethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1752	CSM
1,2-Dibromoethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1752	CSM
Chlorobenzene	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1752	CSM
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1752	CSM
Ethylbenzene	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1752	CSM
Xylenes, total	<2.0	2.0	ug/L	1		03/13/25 0000	03/13/25 1752	CSM
Styrene	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1752	CSM
Bromoform	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1752	CSM
1,2,3-Trichloropropane	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1752	CSM

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CERTIFICATE OF ANALYSIS

11C0573

Client Sample ID: MW-36
Sample Matrix: Aqueous
Lab Sample ID: 11C0573-12

Collected By: JGH
Collection Date: 03/06/2025 12:34

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		03/13/25 0000	03/13/25 1752	CSM
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1752	CSM
1,4-Dichlorobenzene	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1752	CSM
1,2-Dichlorobenzene	<1.0	1.0	ug/L	1		03/13/25 0000	03/13/25 1752	CSM
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L	1		03/20/25 0000	03/20/25 2216	CSM
Surrogate: Dibromofluoromethane	92.3	Limit: 75-136	% Rec	1		03/13/25 0000	03/13/25 1752	CSM
Surrogate: Dibromofluoromethane	80.8	Limit: 75-136	% Rec	1		03/20/25 0000	03/20/25 2216	CSM
Surrogate: Dibromofluoromethane	92.3	Limit: 57-134	% Rec	1		03/13/25 0000	03/13/25 1752	CSM
Surrogate: 1,2-Dichloroethane-d4	79.8	Limit: 61-142	% Rec	1		03/13/25 0000	03/13/25 1752	CSM
Surrogate: 1,2-Dichloroethane-d4	79.8	Limit: 61-142	% Rec	1		03/20/25 0000	03/20/25 2216	CSM
Surrogate: 1,2-Dichloroethane-d4	79.8	Limit: 53-140	% Rec	1		03/13/25 0000	03/13/25 1752	CSM
Surrogate: Toluene-d8	93.8	Limit: 82-121	% Rec	1		03/13/25 0000	03/13/25 1752	CSM
Surrogate: Toluene-d8	93.8	Limit: 86-114	% Rec	1		03/13/25 0000	03/13/25 1752	CSM
Surrogate: Toluene-d8	103	Limit: 82-121	% Rec	1		03/20/25 0000	03/20/25 2216	CSM
Surrogate: 4-Bromofluorobenzene	83.6	Limit: 80-116	% Rec	1		03/13/25 0000	03/13/25 1752	CSM
Surrogate: 4-Bromofluorobenzene	102	Limit: 80-116	% Rec	1		03/20/25 0000	03/20/25 2216	CSM
Surrogate: 4-Bromofluorobenzene	83.6	Limit: 78-121	% Rec	1		03/13/25 0000	03/13/25 1752	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		03/11/25 1542	03/13/25 0134	RVV
Arsenic, total	<0.0040	0.0040	mg/L	4		03/11/25 1542	03/13/25 0134	RVV
Barium, total	0.300	0.0040	mg/L	4		03/11/25 1542	03/13/25 0134	RVV
Beryllium, total	<0.0040	0.0040	mg/L	4		03/11/25 1542	03/13/25 0134	RVV
Cadmium, total	<0.0008	0.0008	mg/L	4		03/11/25 1542	03/13/25 0134	RVV
Chromium, total	<0.0080	0.0080	mg/L	4		03/11/25 1542	03/13/25 0134	RVV
Cobalt, total	<0.0004	0.0004	mg/L	4		03/11/25 1542	03/13/25 0134	RVV
Copper, total	<0.0040	0.0040	mg/L	4		03/11/25 1542	03/13/25 0134	RVV
Lead, total	<0.0040	0.0040	mg/L	4		03/11/25 1542	03/13/25 0134	RVV
Nickel, total	<0.0040	0.0040	mg/L	4		03/11/25 1542	03/13/25 0134	RVV
Selenium, total	<0.0040	0.0040	mg/L	4		03/11/25 1542	03/13/25 0134	RVV
Silver, total	<0.0040	0.0040	mg/L	4		03/11/25 1542	03/13/25 0134	RVV
Thallium, total	<0.0020	0.0020	mg/L	4		03/11/25 1542	03/13/25 0134	RVV
Vanadium, total	<0.0200	0.0200	mg/L	4		03/11/25 1542	03/13/25 0134	RVV
Zinc, total	<0.0200	0.0200	mg/L	4		03/11/25 1542	03/13/25 0134	RVV

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CERTIFICATE OF ANALYSIS

11C0573

Client Sample ID:	Duplicate	Collected By:	JGH
Sample Matrix:	Aqueous	Collection Date:	03/06/2025 10:43
Lab Sample ID:	11C0573-13		

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		03/11/25 1542	03/13/25 0140	RVV
Arsenic, total	<0.0040	0.0040	mg/L	4		03/11/25 1542	03/13/25 0140	RVV
Barium, total	0.174	0.0040	mg/L	4		03/11/25 1542	03/13/25 0140	RVV
Beryllium, total	<0.0040	0.0040	mg/L	4		03/11/25 1542	03/13/25 0140	RVV
Cadmium, total	<0.0008	0.0008	mg/L	4		03/11/25 1542	03/13/25 0140	RVV
Chromium, total	<0.0080	0.0080	mg/L	4		03/11/25 1542	03/13/25 0140	RVV
Cobalt, total	<0.0004	0.0004	mg/L	4		03/11/25 1542	03/13/25 0140	RVV
Copper, total	<0.0040	0.0040	mg/L	4		03/11/25 1542	03/13/25 0140	RVV
Lead, total	<0.0040	0.0040	mg/L	4		03/11/25 1542	03/13/25 0140	RVV
Nickel, total	<0.0040	0.0040	mg/L	4		03/11/25 1542	03/13/25 0140	RVV
Selenium, total	<0.0040	0.0040	mg/L	4		03/11/25 1542	03/13/25 0140	RVV
Silver, total	<0.0040	0.0040	mg/L	4		03/11/25 1542	03/13/25 0140	RVV
Thallium, total	<0.0020	0.0020	mg/L	4		03/11/25 1542	03/13/25 0140	RVV
Vanadium, total	<0.0200	0.0200	mg/L	4		03/11/25 1542	03/13/25 0140	RVV
Zinc, total	<0.0200	0.0200	mg/L	4		03/11/25 1542	03/13/25 0140	RVV

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CERTIFICATE OF ANALYSIS

1IC0573

Batch Log Summary

Method	Batch	Laboratory ID	Client / Source ID
EPA 6020A	1IC0483	1IC0483-BLK1	
		1IC0483-BS1	
		1IC0573-01	MW-20(up)
		1IC0483-MS1	1IC0573-01
		1IC0483-MSD1	1IC0573-01
		1IC0483-PS1	1IC0573-01
		1IC0573-02	MW-26(up)
		1IC0573-03	MW-37(up)
		1IC0573-04	MW-33(up)
		1IC0573-05	MW-3A
		1IC0573-06	MW-8
		1IC0573-07	MW-10
		1IC0573-08	MW-11
		1IC0573-09	MW-27
		1IC0573-10	MW-34
		1IC0573-11	MW-35
		1IC0573-12	MW-36
		1IC0573-13	Duplicate
Method	Batch	Laboratory ID	Client / Source ID
EPA 8260D	1IC0531	1IC0531-BLK1	
		1IC0531-BS1	
		1IC0531-BSD1	
		1IC0573-01	MW-20(up)
		1IC0573-02	MW-26(up)
		1IC0573-03	MW-37(up)
		1IC0573-04	MW-33(up)
		1IC0573-05	MW-3A
		1IC0573-06	MW-8
Method	Batch	Laboratory ID	Client / Source ID
EPA 8260D	1IC0698	1IC0698-BS1	
		1IC0698-BSD1	
		1IC0698-BLK1	
		1IC0573-07	MW-10
		1IC0573-09	MW-27
		1IC0573-10	MW-34
		1IC0573-11	MW-35
		1IC0573-12	MW-36
		1IC0698-MS1	1IC0573-07

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1IC0573

EPA 8260D	1IC0698	1IC0698-MSD1	1IC0573-07
Method	Batch	Laboratory ID	Client / Source ID
EPA 8260D	1IC1002	1IC1002-BS1	
		1IC1002-BLK1	
		1IC1002-MS1	1IC0851-01
		1IC1002-MSD1	1IC0851-01
		1IC1002-BS2	
		1IC1002-BSD2	
		1IC1002-BLK2	
		1IC0573-01RE1	MW-20(up)
		1IC0573-02RE1	MW-26(up)
		1IC0573-03RE1	MW-37(up)
		1IC0573-04RE1	MW-33(up)
		1IC0573-05RE1	MW-3A
		1IC0573-06RE1	MW-8
		1IC0573-07RE1	MW-10
		1IC0573-09RE1	MW-27
		1IC0573-10RE1	MW-34
		1IC1002-MS2	1IC0851-21
		1IC1002-MSD2	1IC0851-21
Method	Batch	Laboratory ID	Client / Source ID
EPA 8260D	1IC1114	1IC0573-11RE1	MW-35
		1IC0573-12RE1	MW-36
		1IC1114-BS1	
		1IC1114-BSD1	
		1IC1114-BLK1	
		1IC1114-MS1	1IC1317-01
		1IC1114-MSD1	1IC1317-01

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 1IC0531 - EPA 5030B - EPA 8260D										
Blank (1IC0531-BLK1)				Prepared: 03/11/25 00:00 Analyzed: 03/11/25 14:51						
1,1-Dichloroethylene	<1.0	1.0	ug/L							
Acetone	15.25	10.0	ug/L							B1
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							

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CERTIFICATE OF ANALYSIS

1IC0573

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1IC0531 - EPA 5030B - EPA 8260D										
Blank (1IC0531-BLK1)										
Prepared: 03/11/25 00:00 Analyzed: 03/11/25 14:51										
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							
Benzene	<1.0	1.0	ug/L							
1,2-Dichloroethane	<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							
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	57.9		ug/L	50.2		115	57-134			
Surrogate: Dibromofluoromethane	57.9		ug/L	50.2		115	75-136			
Surrogate: 1,2-Dichloroethane-d4	54.3		ug/L	50.1		108	53-140			
Surrogate: 1,2-Dichloroethane-d4	54.3		ug/L	50.1		108	61-142			
Surrogate: Toluene-d8	50.5		ug/L	50.4		100	86-114			
Surrogate: Toluene-d8	50.5		ug/L	50.4		100	82-121			
Surrogate: 4-Bromofluorobenzene	49.3		ug/L	50.1		98.3	78-121			
Surrogate: 4-Bromofluorobenzene	49.3		ug/L	50.1		98.3	80-116			
LCS (1IC0531-BS1)										
Prepared: 03/11/25 00:00 Analyzed: 03/12/25 00:29										
1,1-Dichloroethylene	34.64	1.0	ug/L	30.0		115	70-148			
Acetone	119.1	10.0	ug/L	100		119	43-172			
Methyl Iodide	98.94	1.0	ug/L	100		98.9	69-170			

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CERTIFICATE OF ANALYSIS

1IC0573

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1IC0531 - EPA 5030B - EPA 8260D										
LCS (1IC0531-BS1)										
Prepared: 03/11/25 00:00 Analyzed: 03/12/25 00:29										
Carbon Disulfide	108.9	1.0	ug/L	100		109	72-162			
Methylene Chloride	36.59	5.0	ug/L	30.0		122	68-142			
Acrylonitrile	119.1	5.0	ug/L	100		119	56-135			
trans-1,2-Dichloroethylene	34.08	1.0	ug/L	30.0		114	66-148			
1,1-Dichloroethane	33.87	1.0	ug/L	30.0		113	66-143			
Vinyl Acetate	171.4	5.0	ug/L	140		122	43-153			
cis-1,2-Dichloroethylene	35.62	1.0	ug/L	30.0		119	71-149			
2-Butanone (MEK)	126.1	10.0	ug/L	100		126	52-159			
Bromochloromethane	41.23	1.0	ug/L	30.0		137	69-143			
Chloroform	31.95	1.0	ug/L	30.0		106	69-144			
Benzene	28.97	1.0	ug/L	30.0		96.6	71-134			
1,2-Dichloroethane	26.02	1.0	ug/L	30.0		86.7	72-132			
1,2-Dichloropropane	33.48	1.0	ug/L	30.0		112	69-136			
Dibromomethane	29.68	1.0	ug/L	30.0		98.9	73-147			
Bromodichloromethane	26.74	1.0	ug/L	30.0		89.1	68-129			
cis-1,3-Dichloropropene	27.60	1.0	ug/L	30.0		92.0	65-134			
4-Methyl-2-pentanone (MIBK)	107.6	5.0	ug/L	100		108	58-147			
Toluene	30.12	1.0	ug/L	30.0		100	72-133			
trans-1,3-Dichloropropene	27.09	1.0	ug/L	30.0		90.3	67-130			
1,1,2-Trichloroethane	30.30	1.0	ug/L	30.0		101	69-135			
2-Hexanone (MBK)	112.7	5.0	ug/L	100		113	55-144			
Dibromochloromethane	27.02	1.0	ug/L	30.0		90.1	73-127			
1,2-Dibromoethane	28.57	1.0	ug/L	30.0		95.2	67-132			
Chlorobenzene	26.91	1.0	ug/L	30.0		89.7	72-123			
1,1,1,2-Tetrachloroethane	28.51	1.0	ug/L	30.0		95.0	73-127			
Ethylbenzene	30.55	1.0	ug/L	30.0		102	71-127			
Xylenes, total	79.42	2.0	ug/L	90.0		88.2	74-127			
Styrene	28.52	1.0	ug/L	30.0		95.1	66-126			
Bromoform	23.75	1.0	ug/L	30.0		79.2	68-130			
1,2,3-Trichloropropane	27.55	1.0	ug/L	30.0		91.8	63-136			
trans-1,4-Dichloro-2-butene	92.54	5.0	ug/L	100		92.5	54-134			
1,1,2,2-Tetrachloroethane	31.45	1.0	ug/L	30.0		105	61-131			
1,4-Dichlorobenzene	28.79	1.0	ug/L	30.0		96.0	70-129			
1,2-Dichlorobenzene	28.84	1.0	ug/L	30.0		96.1	69-126			
1,2-Dibromo-3-chloropropane	25.80	5.0	ug/L	30.0		86.0	50-143			
Surrogate: Dibromofluoromethane	54.9		ug/L	50.2		109	57-134			
Surrogate: Dibromofluoromethane	54.9		ug/L	50.2		109	75-136			
Surrogate: 1,2-Dichloroethane-d4	51.9		ug/L	50.1		104	53-140			
Surrogate: 1,2-Dichloroethane-d4	51.9		ug/L	50.1		104	61-142			
Surrogate: Toluene-d8	49.9		ug/L	50.4		99.0	86-114			
Surrogate: Toluene-d8	49.9		ug/L	50.4		99.0	82-121			
Surrogate: 4-Bromofluorobenzene	50.7		ug/L	50.1		101	78-121			
Surrogate: 4-Bromofluorobenzene	50.7		ug/L	50.1		101	80-116			

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CERTIFICATE OF ANALYSIS

1IC0573

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1IC0531 - EPA 5030B - EPA 8260D										
LCS Dup (1IC0531-BSD1)				Prepared: 03/11/25 00:00 Analyzed: 03/12/25 00:52						
1,1-Dichloroethylene	33.24	1.0	ug/L	30.0		111	70-148	4.12	24	
Acetone	124.8	10.0	ug/L	100		125	43-172	4.70	30	
Methyl Iodide	99.78	1.0	ug/L	100		99.8	69-170	0.845	30	
Carbon Disulfide	104.4	1.0	ug/L	100		104	72-162	4.23	24	
Methylene Chloride	35.14	5.0	ug/L	30.0		117	68-142	4.04	21	
Acrylonitrile	119.3	5.0	ug/L	100		119	56-135	0.143	16	
trans-1,2-Dichloroethylene	32.54	1.0	ug/L	30.0		108	66-148	4.62	27	
1,1-Dichloroethane	33.23	1.0	ug/L	30.0		111	66-143	1.91	24	
Vinyl Acetate	170.2	5.0	ug/L	140		122	43-153	0.726	30	
cis-1,2-Dichloroethylene	34.52	1.0	ug/L	30.0		115	71-149	3.14	26	
2-Butanone (MEK)	126.0	10.0	ug/L	100		126	52-159	0.0714	27	
Bromochloromethane	37.18	1.0	ug/L	30.0		124	69-143	10.3	23	
Chloroform	31.12	1.0	ug/L	30.0		104	69-144	2.63	23	
Benzene	28.84	1.0	ug/L	30.0		96.1	71-134	0.450	24	
1,2-Dichloroethane	25.38	1.0	ug/L	30.0		84.6	72-132	2.49	24	
1,2-Dichloropropane	32.20	1.0	ug/L	30.0		107	69-136	3.90	24	
Dibromomethane	29.84	1.0	ug/L	30.0		99.5	73-147	0.538	25	
Bromodichloromethane	26.08	1.0	ug/L	30.0		86.9	68-129	2.50	22	
cis-1,3-Dichloropropene	26.69	1.0	ug/L	30.0		89.0	65-134	3.35	23	
4-Methyl-2-pentanone (MIBK)	106.5	5.0	ug/L	100		107	58-147	0.981	27	
Toluene	29.65	1.0	ug/L	30.0		98.8	72-133	1.57	24	
trans-1,3-Dichloropropene	26.31	1.0	ug/L	30.0		87.7	67-130	2.92	24	
1,1,2-Trichloroethane	30.30	1.0	ug/L	30.0		101	69-135	0.00	23	
2-Hexanone (MBK)	111.4	5.0	ug/L	100		111	55-144	1.15	25	
Dibromochloromethane	25.69	1.0	ug/L	30.0		85.6	73-127	5.05	22	
1,2-Dibromoethane	27.55	1.0	ug/L	30.0		91.8	67-132	3.64	24	
Chlorobenzene	26.56	1.0	ug/L	30.0		88.5	72-123	1.31	23	
1,1,1,2-Tetrachloroethane	27.59	1.0	ug/L	30.0		92.0	73-127	3.28	24	
Ethylbenzene	29.71	1.0	ug/L	30.0		99.0	71-127	2.79	26	
Xylenes, total	77.76	2.0	ug/L	90.0		86.4	74-127	2.11	25	
Styrene	27.48	1.0	ug/L	30.0		91.6	66-126	3.71	23	
Bromoform	23.34	1.0	ug/L	30.0		77.8	68-130	1.74	23	
1,2,3-Trichloropropane	26.86	1.0	ug/L	30.0		89.5	63-136	2.54	24	
trans-1,4-Dichloro-2-butene	93.02	5.0	ug/L	100		93.0	54-134	0.517	27	
1,1,2,2-Tetrachloroethane	31.96	1.0	ug/L	30.0		107	61-131	1.61	29	
1,4-Dichlorobenzene	28.71	1.0	ug/L	30.0		95.7	70-129	0.278	24	
1,2-Dichlorobenzene	28.68	1.0	ug/L	30.0		95.6	69-126	0.556	26	
1,2-Dibromo-3-chloropropane	26.75	5.0	ug/L	30.0		89.2	50-143	3.62	30	
Surrogate: Dibromofluoromethane	53.9		ug/L	50.2		107	57-134			
Surrogate: Dibromofluoromethane	53.9		ug/L	50.2		107	75-136			
Surrogate: 1,2-Dichloroethane-d4	49.8		ug/L	50.1		99.5	53-140			
Surrogate: 1,2-Dichloroethane-d4	49.8		ug/L	50.1		99.5	61-142			
Surrogate: Toluene-d8	49.7		ug/L	50.4		98.7	86-114			

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CERTIFICATE OF ANALYSIS

1IC0573

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1IC0531 - EPA 5030B - EPA 8260D										

LCS Dup (1IC0531-BSD1)

Prepared: 03/11/25 00:00 Analyzed: 03/12/25 00:52

Surrogate: Toluene-d8	49.7	ug/L	50.4	98.7	82-121
Surrogate: 4-Bromofluorobenzene	50.2	ug/L	50.1	100	78-121
Surrogate: 4-Bromofluorobenzene	50.2	ug/L	50.1	100	80-116

Batch 1IC0698 - EPA 5030B - EPA 8260D

Blank (1IC0698-BLK1)

Prepared: 03/13/25 00:00 Analyzed: 03/13/25 12:04

Dichlorodifluoromethane	<1.0	1.0	ug/L
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
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
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

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CERTIFICATE OF ANALYSIS

1IC0573

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1IC0698 - EPA 5030B - EPA 8260D										
Blank (1IC0698-BLK1)										
Prepared: 03/13/25 00:00 Analyzed: 03/13/25 12:04										
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							
Surrogate: Dibromofluoromethane										
	46.8		ug/L	50.2		93.3	57-134			
Surrogate: Dibromofluoromethane										
	46.8		ug/L	50.2		93.3	75-136			
Surrogate: 1,2-Dichloroethane-d4										
	39.6		ug/L	50.1		79.1	53-140			
Surrogate: 1,2-Dichloroethane-d4										
	39.6		ug/L	50.1		79.1	61-142			
Surrogate: Toluene-d8										
	47.1		ug/L	50.4		93.6	86-114			
Surrogate: Toluene-d8										
	47.1		ug/L	50.4		93.6	82-121			
Surrogate: 4-Bromofluorobenzene										
	46.4		ug/L	50.1		92.4	78-121			
Surrogate: 4-Bromofluorobenzene										
	46.4		ug/L	50.1		92.4	80-116			
LCS (1IC0698-BS1)										
Prepared: 03/13/25 00:00 Analyzed: 03/13/25 10:57										
Dichlorodifluoromethane	34.96	1.0	ug/L	30.3		115	49-138			
Chloromethane	25.56	1.0	ug/L	30.3		84.3	63-155			
Vinyl Chloride	33.34	1.0	ug/L	30.2		110	70-154			
Bromomethane	34.49	1.0	ug/L	30.1		115	52-176			
Chloroethane	35.43	1.0	ug/L	30.3		117	72-148			
Trichlorofluoromethane	42.14	1.0	ug/L	30.3		139	70-152			
1,1-Dichloroethylene	58.12	1.0	ug/L	50.1		116	70-148			
Acetone	102.6	10.0	ug/L	100		103	43-172			
Methyl Iodide	124.1	1.0	ug/L	100		124	69-170			
Carbon Disulfide	116.2	1.0	ug/L	100		116	72-162			
Methylene Chloride	52.93	5.0	ug/L	50.1		106	68-142			
Acrylonitrile	50.43	5.0	ug/L	50.2		100	56-135			
trans-1,2-Dichloroethylene	55.75	1.0	ug/L	50.1		111	66-148			
1,1-Dichloroethane	56.27	1.0	ug/L	50.1		112	66-143			
Vinyl Acetate	166.6	5.0	ug/L	140		119	43-153			
cis-1,2-Dichloroethylene	56.54	1.0	ug/L	50.4		112	71-149			
2-Butanone (MEK)	92.44	10.0	ug/L	100		92.4	52-159			
Bromochloromethane	49.88	1.0	ug/L	50.4		99.0	69-143			
Chloroform	56.67	1.0	ug/L	50.1		113	69-144			
1,1,1-Trichloroethane	59.33	1.0	ug/L	50.1		118	62-129			
Carbon Tetrachloride	61.06	1.0	ug/L	50.1		122	63-141			
Benzene	51.42	1.0	ug/L	50.4		102	71-134			
1,2-Dichloroethane	50.31	1.0	ug/L	50.1		100	72-132			
Trichloroethylene	55.94	1.0	ug/L	50.1		112	71-135			
1,2-Dichloropropane	48.60	1.0	ug/L	50.1		97.0	69-136			

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CERTIFICATE OF ANALYSIS

1IC0573

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1IC0698 - EPA 5030B - EPA 8260D										
LCS (1IC0698-BS1)										
Prepared: 03/13/25 00:00 Analyzed: 03/13/25 10:57										
Dibromomethane	49.24	1.0	ug/L	50.4		97.8	73-147			
Bromodichloromethane	52.99	1.0	ug/L	50.1		106	68-129			
cis-1,3-Dichloropropene	47.35	1.0	ug/L	50.1		94.5	65-134			
Toluene	52.08	1.0	ug/L	50.5		103	72-133			
trans-1,3-Dichloropropene	46.62	1.0	ug/L	50.1		93.1	67-130			
1,1,2-Trichloroethane	51.64	1.0	ug/L	50.1		103	69-135			
Tetrachloroethylene	58.04	1.0	ug/L	50.1		116	69-130			
Dibromochloromethane	51.55	1.0	ug/L	50.1		103	73-127			
1,2-Dibromoethane	49.10	1.0	ug/L	50.2		97.8	67-132			
Chlorobenzene	50.34	1.0	ug/L	50.1		101	72-123			
1,1,1,2-Tetrachloroethane	52.44	1.0	ug/L	50.3		104	73-127			
Ethylbenzene	51.81	1.0	ug/L	50.2		103	71-127			
Xylenes, total	153.9	2.0	ug/L	151		102	74-127			
Styrene	53.73	1.0	ug/L	50.4		107	66-126			
Bromoform	50.14	1.0	ug/L	50.1		100	68-130			
1,2,3-Trichloropropane	46.44	1.0	ug/L	50.3		92.2	63-136			
trans-1,4-Dichloro-2-butene	78.57	5.0	ug/L	100		78.6	54-134			
1,1,2,2-Tetrachloroethane	44.44	1.0	ug/L	50.1		88.7	61-131			
1,4-Dichlorobenzene	47.11	1.0	ug/L	50.1		94.0	70-129			
1,2-Dichlorobenzene	48.41	1.0	ug/L	50.1		96.6	69-126			
Surrogate: Dibromofluoromethane	54.9		ug/L	50.2		109	57-134			
Surrogate: Dibromofluoromethane	54.9		ug/L	50.2		109	75-136			
Surrogate: 1,2-Dichloroethane-d4	49.0		ug/L	50.1		97.9	53-140			
Surrogate: 1,2-Dichloroethane-d4	49.0		ug/L	50.1		97.9	61-142			
Surrogate: Toluene-d8	50.3		ug/L	50.4		99.8	86-114			
Surrogate: Toluene-d8	50.3		ug/L	50.4		99.8	82-121			
Surrogate: 4-Bromofluorobenzene	49.5		ug/L	50.1		98.6	78-121			
Surrogate: 4-Bromofluorobenzene	49.5		ug/L	50.1		98.6	80-116			
LCS Dup (1IC0698-BSD1)										
Prepared: 03/13/25 00:00 Analyzed: 03/13/25 11:19										
Dichlorodifluoromethane	33.19	1.0	ug/L	30.3		110	49-138	5.19	22	
Chloromethane	25.11	1.0	ug/L	30.3		82.8	63-155	1.78	24	
Vinyl Chloride	30.32	1.0	ug/L	30.2		100	70-154	9.49	25	
Bromomethane	33.62	1.0	ug/L	30.1		112	52-176	2.55	27	
Chloroethane	32.88	1.0	ug/L	30.3		108	72-148	7.47	25	
Trichlorofluoromethane	39.68	1.0	ug/L	30.3		131	70-152	6.01	26	
1,1-Dichloroethylene	54.40	1.0	ug/L	50.1		109	70-148	6.61	24	
Acetone	87.13	10.0	ug/L	100		87.1	43-172	16.3	30	
Methyl Iodide	117.5	1.0	ug/L	100		117	69-170	5.45	30	
Carbon Disulfide	107.5	1.0	ug/L	100		108	72-162	7.73	24	
Methylene Chloride	51.57	5.0	ug/L	50.1		103	68-142	2.60	21	
Acrylonitrile	48.71	5.0	ug/L	50.2		97.0	56-135	3.47	16	
trans-1,2-Dichloroethylene	52.40	1.0	ug/L	50.1		105	66-148	6.20	27	
1,1-Dichloroethane	53.15	1.0	ug/L	50.1		106	66-143	5.70	24	

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1IC0573

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1IC0698 - EPA 5030B - EPA 8260D										
LCS Dup (1IC0698-BSD1)				Prepared: 03/13/25 00:00 Analyzed: 03/13/25 11:19						
Vinyl Acetate	164.0	5.0	ug/L	140		117	43-153	1.63	30	
cis-1,2-Dichloroethylene	52.84	1.0	ug/L	50.4		105	71-149	6.77	26	
2-Butanone (MEK)	84.79	10.0	ug/L	100		84.8	52-159	8.63	27	
Bromochloromethane	47.55	1.0	ug/L	50.4		94.3	69-143	4.78	23	
Chloroform	54.55	1.0	ug/L	50.1		109	69-144	3.81	23	
1,1,1-Trichloroethane	55.25	1.0	ug/L	50.1		110	62-129	7.12	24	
Carbon Tetrachloride	56.93	1.0	ug/L	50.1		114	63-141	7.00	25	
Benzene	49.91	1.0	ug/L	50.4		99.0	71-134	2.98	24	
1,2-Dichloroethane	48.98	1.0	ug/L	50.1		97.8	72-132	2.68	24	
Trichloroethylene	53.39	1.0	ug/L	50.1		107	71-135	4.66	24	
1,2-Dichloropropane	48.82	1.0	ug/L	50.1		97.5	69-136	0.452	24	
Dibromomethane	48.38	1.0	ug/L	50.4		96.1	73-147	1.76	25	
Bromodichloromethane	51.83	1.0	ug/L	50.1		103	68-129	2.21	22	
cis-1,3-Dichloropropene	47.71	1.0	ug/L	50.1		95.3	65-134	0.757	23	
Toluene	50.62	1.0	ug/L	50.5		100	72-133	2.84	24	
trans-1,3-Dichloropropene	46.24	1.0	ug/L	50.1		92.3	67-130	0.818	24	
1,1,2-Trichloroethane	52.58	1.0	ug/L	50.1		105	69-135	1.80	23	
Tetrachloroethylene	54.87	1.0	ug/L	50.1		110	69-130	5.62	25	
Dibromochloromethane	50.53	1.0	ug/L	50.1		101	73-127	2.00	22	
1,2-Dibromoethane	48.42	1.0	ug/L	50.2		96.4	67-132	1.39	24	
Chlorobenzene	48.12	1.0	ug/L	50.1		96.1	72-123	4.51	23	
1,1,1,2-Tetrachloroethane	50.39	1.0	ug/L	50.3		100	73-127	3.99	24	
Ethylbenzene	49.24	1.0	ug/L	50.2		98.1	71-127	5.09	26	
Xylenes, total	146.0	2.0	ug/L	151		96.7	74-127	5.23	25	
Styrene	51.30	1.0	ug/L	50.4		102	66-126	4.63	23	
Bromoform	48.22	1.0	ug/L	50.1		96.2	68-130	3.90	23	
1,2,3-Trichloropropane	45.49	1.0	ug/L	50.3		90.4	63-136	2.07	24	
trans-1,4-Dichloro-2-butene	77.40	5.0	ug/L	100		77.4	54-134	1.50	27	
1,1,2,2-Tetrachloroethane	44.72	1.0	ug/L	50.1		89.3	61-131	0.628	29	
1,4-Dichlorobenzene	47.73	1.0	ug/L	50.1		95.2	70-129	1.31	24	
1,2-Dichlorobenzene	47.96	1.0	ug/L	50.1		95.7	69-126	0.934	26	
Surrogate: Dibromofluoromethane	54.2		ug/L	50.2		108	57-134			
Surrogate: Dibromofluoromethane	54.2		ug/L	50.2		108	75-136			
Surrogate: 1,2-Dichloroethane-d4	48.1		ug/L	50.1		96.0	53-140			
Surrogate: 1,2-Dichloroethane-d4	48.1		ug/L	50.1		96.0	61-142			
Surrogate: Toluene-d8	49.8		ug/L	50.4		98.8	86-114			
Surrogate: Toluene-d8	49.8		ug/L	50.4		98.8	82-121			
Surrogate: 4-Bromofluorobenzene	49.2		ug/L	50.1		98.1	78-121			
Surrogate: 4-Bromofluorobenzene	49.2		ug/L	50.1		98.1	80-116			
Matrix Spike (1IC0698-MS1)				Source: 1IC0573-07 Prepared: 03/13/25 00:00 Analyzed: 03/13/25 23:48						
Dichlorodifluoromethane	326.5	10.0	ug/L	303	ND	108	37-140			
Chloromethane	246.7	10.0	ug/L	303	ND	81.4	61-152			
Vinyl Chloride	307.9	10.0	ug/L	302	ND	102	66-149			

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CERTIFICATE OF ANALYSIS

1IC0573

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1IC0698 - EPA 5030B - EPA 8260D										
Matrix Spike (1IC0698-MS1)	Source: 1IC0573-07			Prepared: 03/13/25 00:00 Analyzed: 03/13/25 23:48						
Bromomethane	310.3	10.0	ug/L	301	ND	103	43-171			
Chloroethane	329.8	10.0	ug/L	303	ND	109	69-148			
Trichlorofluoromethane	418.1	10.0	ug/L	303	ND	138	62-163			
1,1-Dichloroethylene	557.8	10.0	ug/L	501	ND	111	70-148			
Acetone	837.0	100	ug/L	1000	ND	83.7	45-173			
Methyl Iodide	1170	10.0	ug/L	1000	ND	117	62-167			
Carbon Disulfide	1136	10.0	ug/L	1000	ND	114	71-163			
Methylene Chloride	512.8	50.0	ug/L	501	ND	102	69-140			
Acrylonitrile	487.5	50.0	ug/L	502	ND	97.1	38-147			
trans-1,2-Dichloroethylene	535.1	10.0	ug/L	501	ND	107	69-144			
1,1-Dichloroethane	547.5	10.0	ug/L	501	ND	109	70-138			
Vinyl Acetate	1553	50.0	ug/L	1400	ND	111	58-142			
cis-1,2-Dichloroethylene	528.3	10.0	ug/L	504	ND	105	68-151			
2-Butanone (MEK)	848.1	100	ug/L	1000	ND	84.8	50-160			
Bromochloromethane	486.6	10.0	ug/L	504	ND	96.5	65-143			
Chloroform	554.7	10.0	ug/L	501	ND	111	71-143			
1,1,1-Trichloroethane	584.4	10.0	ug/L	501	ND	117	63-133			
Carbon Tetrachloride	604.0	10.0	ug/L	501	ND	121	63-142			
Benzene	525.4	10.0	ug/L	504	ND	104	69-133			
1,2-Dichloroethane	498.5	10.0	ug/L	501	ND	99.5	63-138			
Trichloroethylene	560.2	10.0	ug/L	501	ND	112	71-133			
1,2-Dichloropropane	489.9	10.0	ug/L	501	ND	97.8	69-132			
Dibromomethane	498.6	10.0	ug/L	504	ND	99.0	70-147			
Bromodichloromethane	614.2	10.0	ug/L	501	ND	123	67-130			
cis-1,3-Dichloropropene	527.0	10.0	ug/L	501	ND	105	61-126			
Toluene	522.6	10.0	ug/L	505	ND	104	71-133			
trans-1,3-Dichloropropene	446.3	10.0	ug/L	501	ND	89.1	63-124			
1,1,2-Trichloroethane	526.6	10.0	ug/L	501	ND	105	69-133			
Tetrachloroethylene	588.2	10.0	ug/L	501	ND	117	70-124			
Dibromochloromethane	518.4	10.0	ug/L	501	ND	104	74-122			
1,2-Dibromoethane	484.7	10.0	ug/L	502	ND	96.5	66-127			
Chlorobenzene	508.9	10.0	ug/L	501	ND	102	76-116			
1,1,1,2-Tetrachloroethane	536.2	10.0	ug/L	503	ND	107	77-121			
Ethylbenzene	522.3	10.0	ug/L	502	ND	104	73-124			
Xylenes, total	1560	20.0	ug/L	1510	ND	103	75-123			
Styrene	538.9	10.0	ug/L	504	ND	107	70-120			
Bromoform	501.6	10.0	ug/L	501	ND	100	70-124			
1,2,3-Trichloropropane	466.8	10.0	ug/L	503	ND	92.7	62-135			
trans-1,4-Dichloro-2-butene	741.5	50.0	ug/L	1000	ND	74.2	50-120			
1,1,2,2-Tetrachloroethane	422.1	10.0	ug/L	501	ND	84.2	63-126			
1,4-Dichlorobenzene	469.6	10.0	ug/L	501	ND	93.7	72-119			
1,2-Dichlorobenzene	466.2	10.0	ug/L	501	ND	93.1	71-117			

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CERTIFICATE OF ANALYSIS

1IC0573

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1IC0698 - EPA 5030B - EPA 8260D										
Matrix Spike (1IC0698-MS1)	Source: 1IC0573-07			Prepared: 03/13/25 00:00 Analyzed: 03/13/25 23:48						
Surrogate: Dibromofluoromethane	536		ug/L	502		107	57-134			
Surrogate: Dibromofluoromethane	536		ug/L	502		107	75-136			
Surrogate: 1,2-Dichloroethane-d4	490		ug/L	501		97.8	53-140			
Surrogate: 1,2-Dichloroethane-d4	490		ug/L	501		97.8	61-142			
Surrogate: Toluene-d8	502		ug/L	504		99.6	86-114			
Surrogate: Toluene-d8	502		ug/L	504		99.6	82-121			
Surrogate: 4-Bromofluorobenzene	514		ug/L	501		103	78-121			
Surrogate: 4-Bromofluorobenzene	514		ug/L	501		103	80-116			
Matrix Spike Dup (1IC0698-MSD1)	Source: 1IC0573-07			Prepared: 03/13/25 00:00 Analyzed: 03/14/25 00:10						
Dichlorodifluoromethane	311.1	10.0	ug/L	303	ND	103	37-140	4.83	18	
Chloromethane	231.9	10.0	ug/L	303	ND	76.5	61-152	6.18	26	
Vinyl Chloride	295.4	10.0	ug/L	302	ND	97.7	66-149	4.14	23	
Bromomethane	312.0	10.0	ug/L	301	ND	104	43-171	0.546	29	
Chloroethane	323.0	10.0	ug/L	303	ND	107	69-148	2.08	25	
Trichlorofluoromethane	392.4	10.0	ug/L	303	ND	129	62-163	6.34	25	
1,1-Dichloroethylene	540.0	10.0	ug/L	501	ND	108	70-148	3.24	22	
Acetone	906.1	100	ug/L	1000	ND	90.6	45-173	7.93	30	
Methyl Iodide	1118	10.0	ug/L	1000	ND	112	62-167	4.57	24	
Carbon Disulfide	1053	10.0	ug/L	1000	ND	105	71-163	7.57	22	
Methylene Chloride	489.4	50.0	ug/L	501	ND	97.7	69-140	4.67	19	
Acrylonitrile	455.1	50.0	ug/L	502	ND	90.7	38-147	6.87	30	
trans-1,2-Dichloroethylene	516.6	10.0	ug/L	501	ND	103	69-144	3.52	22	
1,1-Dichloroethane	525.2	10.0	ug/L	501	ND	105	70-138	4.16	20	
Vinyl Acetate	1532	50.0	ug/L	1400	ND	109	58-142	1.36	24	
cis-1,2-Dichloroethylene	504.4	10.0	ug/L	504	ND	100	68-151	4.63	22	
2-Butanone (MEK)	807.6	100	ug/L	1000	ND	80.8	50-160	4.89	23	
Bromochloromethane	463.9	10.0	ug/L	504	ND	92.0	65-143	4.78	22	
Chloroform	527.3	10.0	ug/L	501	ND	105	71-143	5.06	21	
1,1,1-Trichloroethane	555.4	10.0	ug/L	501	ND	111	63-133	5.09	23	
Carbon Tetrachloride	574.1	10.0	ug/L	501	ND	115	63-142	5.08	22	
Benzene	491.8	10.0	ug/L	504	ND	97.5	69-133	6.61	18	
1,2-Dichloroethane	475.8	10.0	ug/L	501	ND	95.0	63-138	4.66	20	
Trichloroethylene	533.3	10.0	ug/L	501	ND	106	71-133	4.92	23	
1,2-Dichloropropane	483.5	10.0	ug/L	501	ND	96.5	69-132	1.31	20	
Dibromomethane	466.7	10.0	ug/L	504	ND	92.7	70-147	6.61	22	
Bromodichloromethane	517.0	10.0	ug/L	501	ND	103	67-130	17.2	21	
cis-1,3-Dichloropropene	449.2	10.0	ug/L	501	ND	89.7	61-126	15.9	21	
Toluene	500.2	10.0	ug/L	505	ND	99.1	71-133	4.38	19	
trans-1,3-Dichloropropene	431.9	10.0	ug/L	501	ND	86.3	63-124	3.28	21	
1,1,2-Trichloroethane	509.8	10.0	ug/L	501	ND	102	69-133	3.24	19	
Tetrachloroethylene	558.3	10.0	ug/L	501	ND	111	70-124	5.22	24	
Dibromochloromethane	494.0	10.0	ug/L	501	ND	98.7	74-122	4.82	21	
1,2-Dibromoethane	477.2	10.0	ug/L	502	ND	95.0	66-127	1.56	23	

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CERTIFICATE OF ANALYSIS

11C0573

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 11C0698 - EPA 5030B - EPA 8260D										
Matrix Spike Dup (11C0698-MSD1)	Source: 11C0573-07			Prepared: 03/13/25 00:00 Analyzed: 03/14/25 00:10						
Chlorobenzene	483.8	10.0	ug/L	501	ND	96.6	76-116	5.06	21	
1,1,1,2-Tetrachloroethane	506.9	10.0	ug/L	503	ND	101	77-121	5.62	25	
Ethylbenzene	495.3	10.0	ug/L	502	ND	98.7	73-124	5.31	20	
Xylenes, total	1476	20.0	ug/L	1510	ND	97.7	75-123	5.55	20	
Styrene	512.8	10.0	ug/L	504	ND	102	70-120	4.96	23	
Bromoform	477.3	10.0	ug/L	501	ND	95.2	70-124	4.96	22	
1,2,3-Trichloropropane	439.8	10.0	ug/L	503	ND	87.4	62-135	5.96	28	
trans-1,4-Dichloro-2-butene	703.1	50.0	ug/L	1000	ND	70.3	50-120	5.32	26	
1,1,1,2-Tetrachloroethane	418.1	10.0	ug/L	501	ND	83.4	63-126	0.952	24	
1,4-Dichlorobenzene	456.9	10.0	ug/L	501	ND	91.2	72-119	2.74	24	
1,2-Dichlorobenzene	454.8	10.0	ug/L	501	ND	90.8	71-117	2.48	24	
Surrogate: Dibromofluoromethane	522		ug/L	502		104	57-134			
Surrogate: Dibromofluoromethane	522		ug/L	502		104	75-136			
Surrogate: 1,2-Dichloroethane-d4	472		ug/L	501		94.3	53-140			
Surrogate: 1,2-Dichloroethane-d4	472		ug/L	501		94.3	61-142			
Surrogate: Toluene-d8	495		ug/L	504		98.2	86-114			
Surrogate: Toluene-d8	495		ug/L	504		98.2	82-121			
Surrogate: 4-Bromofluorobenzene	504		ug/L	501		100	78-121			
Surrogate: 4-Bromofluorobenzene	504		ug/L	501		100	80-116			

Batch 11C1002 - EPA 5030B - EPA 8260D

Blank (11C1002-BLK1)	Prepared: 03/19/25 00:00 Analyzed: 03/19/25 15:56									
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							
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							

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CERTIFICATE OF ANALYSIS

1IC0573

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1IC1002 - EPA 5030B - EPA 8260D										
Blank (1IC1002-BLK1)										
Prepared: 03/19/25 00:00 Analyzed: 03/19/25 15:56										
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	34.7		ug/L	50.2		69.1	75-136			S2
Surrogate: 1,2-Dichloroethane-d4	33.2		ug/L	50.1		66.4	61-142			
Surrogate: Toluene-d8	51.4		ug/L	50.4		102	82-121			
Surrogate: 4-Bromofluorobenzene	46.6		ug/L	50.1		92.9	80-116			
Blank (1IC1002-BLK2)										
Prepared: 03/19/25 00:00 Analyzed: 03/20/25 03:06										
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							
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L							
1,1-Dichloroethane	<1.0	1.0	ug/L							

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Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1IC1002 - EPA 5030B - EPA 8260D										
Blank (1IC1002-BLK2)										
Prepared: 03/19/25 00:00 Analyzed: 03/20/25 03:06										
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							
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	37.6		ug/L	50.2		74.9	75-136			S2
Surrogate: 1,2-Dichloroethane-d4	36.0		ug/L	50.1		71.9	61-142			
Surrogate: Toluene-d8	49.9		ug/L	50.4		99.0	82-121			
Surrogate: 4-Bromofluorobenzene	46.3		ug/L	50.1		92.3	80-116			
LCS (1IC1002-BS1)										
Prepared: 03/19/25 00:00 Analyzed: 03/19/25 14:49										
Chloromethane	29.32	1.0	ug/L	30.3		96.7	63-155			
Vinyl Chloride	30.18	1.0	ug/L	30.2		99.8	70-154			
Bromomethane	28.27	1.0	ug/L	30.1		93.9	52-176			

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Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1IC1002 - EPA 5030B - EPA 8260D										
LCS (1IC1002-BS1)				Prepared: 03/19/25 00:00 Analyzed: 03/19/25 14:49						
Chloroethane	29.18	1.0	ug/L	30.3		96.2	72-148			
Trichlorofluoromethane	30.09	1.0	ug/L	30.3		99.3	70-152			
1,1-Dichloroethylene	50.76	1.0	ug/L	50.1		101	70-148			
Acetone	95.57	10.0	ug/L	100		95.6	43-172			
Methyl Iodide	90.68	1.0	ug/L	100		90.7	69-170			
Carbon Disulfide	97.18	1.0	ug/L	100		97.2	72-162			
Methylene Chloride	41.47	5.0	ug/L	50.1		82.8	68-142			
trans-1,2-Dichloroethylene	50.11	1.0	ug/L	50.1		100	66-148			
1,1-Dichloroethane	48.24	1.0	ug/L	50.1		96.3	66-143			
Vinyl Acetate	130.9	5.0	ug/L	140		93.5	43-153			
cis-1,2-Dichloroethylene	48.22	1.0	ug/L	50.4		95.8	71-149			
2-Butanone (MEK)	84.72	10.0	ug/L	100		84.7	52-159			
Bromochloromethane	46.79	1.0	ug/L	50.4		92.8	69-143			
Chloroform	47.58	1.0	ug/L	50.1		95.0	69-144			
1,1,1-Trichloroethane	50.50	1.0	ug/L	50.1		101	62-129			
Carbon Tetrachloride	50.36	1.0	ug/L	50.1		101	63-141			
Benzene	48.59	1.0	ug/L	50.4		96.3	71-134			
1,2-Dichloroethane	47.03	1.0	ug/L	50.1		93.9	72-132			
Trichloroethylene	49.66	1.0	ug/L	50.1		99.1	71-135			
1,2-Dichloropropane	46.84	1.0	ug/L	50.1		93.5	69-136			
Dibromomethane	46.94	1.0	ug/L	50.4		93.2	73-147			
Bromodichloromethane	49.16	1.0	ug/L	50.1		98.1	68-129			
cis-1,3-Dichloropropene	46.79	1.0	ug/L	50.1		93.4	65-134			
4-Methyl-2-pentanone (MIBK)	88.76	5.0	ug/L	100		88.8	58-147			
Toluene	52.59	1.0	ug/L	50.5		104	72-133			
trans-1,3-Dichloropropene	44.24	1.0	ug/L	50.1		88.3	67-130			
1,1,2-Trichloroethane	44.40	1.0	ug/L	50.1		88.6	69-135			
Tetrachloroethylene	51.82	1.0	ug/L	50.1		103	69-130			
2-Hexanone (MBK)	94.45	5.0	ug/L	100		94.4	55-144			
Dibromochloromethane	48.23	1.0	ug/L	50.1		96.3	73-127			
1,2-Dibromoethane	48.43	1.0	ug/L	50.2		96.4	67-132			
Chlorobenzene	47.63	1.0	ug/L	50.1		95.1	72-123			
1,1,1,2-Tetrachloroethane	46.05	1.0	ug/L	50.3		91.5	73-127			
Ethylbenzene	53.64	1.0	ug/L	50.2		107	71-127			
Xylenes, total	160.1	2.0	ug/L	151		106	74-127			
Styrene	51.54	1.0	ug/L	50.4		102	66-126			
Bromoform	46.55	1.0	ug/L	50.1		92.9	68-130			
1,2,3-Trichloropropane	44.35	1.0	ug/L	50.3		88.1	63-136			
trans-1,4-Dichloro-2-butene	91.81	5.0	ug/L	100		91.8	54-134			
1,1,2,2-Tetrachloroethane	46.23	1.0	ug/L	50.1		92.3	61-131			
1,4-Dichlorobenzene	47.87	1.0	ug/L	50.1		95.5	70-129			
1,2-Dichlorobenzene	48.28	1.0	ug/L	50.1		96.4	69-126			
1,2-Dibromo-3-chloropropane	42.58	5.0	ug/L	50.1		84.9	50-143			

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CERTIFICATE OF ANALYSIS

11C0573

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 11C1002 - EPA 5030B - EPA 8260D										
LCS (11C1002-BS1)				Prepared: 03/19/25 00:00 Analyzed: 03/19/25 14:49						
Surrogate: Dibromofluoromethane	45.1		ug/L	50.2		89.9	75-136			
Surrogate: 1,2-Dichloroethane-d4	44.7		ug/L	50.1		89.2	61-142			
Surrogate: Toluene-d8	49.7		ug/L	50.4		98.6	82-121			
Surrogate: 4-Bromofluorobenzene	48.5		ug/L	50.1		96.7	80-116			
LCS (11C1002-BS2)				Prepared: 03/19/25 00:00 Analyzed: 03/20/25 01:59						
Chloromethane	28.24	1.0	ug/L	30.3		93.1	63-155			
Vinyl Chloride	28.58	1.0	ug/L	30.2		94.5	70-154			
Bromomethane	27.14	1.0	ug/L	30.1		90.1	52-176			
Chloroethane	28.14	1.0	ug/L	30.3		92.8	72-148			
Trichlorofluoromethane	28.62	1.0	ug/L	30.3		94.4	70-152			
1,1-Dichloroethylene	48.78	1.0	ug/L	50.1		97.3	70-148			
Acetone	104.2	10.0	ug/L	100		104	43-172			
Methyl Iodide	86.84	1.0	ug/L	100		86.8	69-170			
Carbon Disulfide	91.23	1.0	ug/L	100		91.2	72-162			
Methylene Chloride	40.60	5.0	ug/L	50.1		81.0	68-142			
trans-1,2-Dichloroethylene	48.28	1.0	ug/L	50.1		96.4	66-148			
1,1-Dichloroethane	48.03	1.0	ug/L	50.1		95.9	66-143			
Vinyl Acetate	133.3	5.0	ug/L	140		95.2	43-153			
cis-1,2-Dichloroethylene	47.05	1.0	ug/L	50.4		93.4	71-149			
2-Butanone (MEK)	87.95	10.0	ug/L	100		88.0	52-159			
Bromochloromethane	46.80	1.0	ug/L	50.4		92.9	69-143			
Chloroform	46.84	1.0	ug/L	50.1		93.5	69-144			
1,1,1-Trichloroethane	50.20	1.0	ug/L	50.1		100	62-129			
Carbon Tetrachloride	49.66	1.0	ug/L	50.1		99.1	63-141			
Benzene	48.23	1.0	ug/L	50.4		95.6	71-134			
1,2-Dichloroethane	47.77	1.0	ug/L	50.1		95.4	72-132			
Trichloroethylene	49.90	1.0	ug/L	50.1		99.6	71-135			
1,2-Dichloropropane	48.26	1.0	ug/L	50.1		96.3	69-136			
Dibromomethane	47.38	1.0	ug/L	50.4		94.1	73-147			
Bromodichloromethane	49.44	1.0	ug/L	50.1		98.7	68-129			
cis-1,3-Dichloropropene	46.74	1.0	ug/L	50.1		93.3	65-134			
4-Methyl-2-pentanone (MIBK)	101.3	5.0	ug/L	100		101	58-147			
Toluene	52.14	1.0	ug/L	50.5		103	72-133			
trans-1,3-Dichloropropene	44.32	1.0	ug/L	50.1		88.5	67-130			
1,1,2-Trichloroethane	45.95	1.0	ug/L	50.1		91.7	69-135			
Tetrachloroethylene	50.82	1.0	ug/L	50.1		101	69-130			
2-Hexanone (MBK)	108.6	5.0	ug/L	100		109	55-144			
Dibromochloromethane	49.68	1.0	ug/L	50.1		99.2	73-127			
1,2-Dibromoethane	51.09	1.0	ug/L	50.2		102	67-132			
Chlorobenzene	48.27	1.0	ug/L	50.1		96.4	72-123			
1,1,1,2-Tetrachloroethane	46.96	1.0	ug/L	50.3		93.3	73-127			
Ethylbenzene	53.27	1.0	ug/L	50.2		106	71-127			
Xylenes, total	159.0	2.0	ug/L	151		105	74-127			

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CERTIFICATE OF ANALYSIS

1IC0573

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1IC1002 - EPA 5030B - EPA 8260D										
LCS (1IC1002-BS2)										
Prepared: 03/19/25 00:00 Analyzed: 03/20/25 01:59										
Styrene	53.05	1.0	ug/L	50.4		105	66-126			
Bromoform	50.34	1.0	ug/L	50.1		100	68-130			
1,2,3-Trichloropropane	46.56	1.0	ug/L	50.3		92.5	63-136			
trans-1,4-Dichloro-2-butene	92.50	5.0	ug/L	100		92.5	54-134			
1,1,2,2-Tetrachloroethane	47.65	1.0	ug/L	50.1		95.1	61-131			
1,4-Dichlorobenzene	48.57	1.0	ug/L	50.1		96.9	70-129			
1,2-Dichlorobenzene	51.09	1.0	ug/L	50.1		102	69-126			
1,2-Dibromo-3-chloropropane	50.11	5.0	ug/L	50.1		100	50-143			
Surrogate: Dibromofluoromethane	46.0		ug/L	50.2		91.7	75-136			
Surrogate: 1,2-Dichloroethane-d4	45.5		ug/L	50.1		90.9	61-142			
Surrogate: Toluene-d8	49.6		ug/L	50.4		98.5	82-121			
Surrogate: 4-Bromofluorobenzene	49.3		ug/L	50.1		98.4	80-116			
LCS Dup (1IC1002-BSD2)										
Prepared: 03/19/25 00:00 Analyzed: 03/20/25 02:21										
Chloromethane	25.03	1.0	ug/L	30.3		82.6	63-155	12.1	24	
Vinyl Chloride	25.13	1.0	ug/L	30.2		83.1	70-154	12.8	25	
Bromomethane	23.79	1.0	ug/L	30.1		79.0	52-176	13.2	27	
Chloroethane	25.02	1.0	ug/L	30.3		82.5	72-148	11.7	25	
Trichlorofluoromethane	26.28	1.0	ug/L	30.3		86.7	70-152	8.52	26	
1,1-Dichloroethylene	45.37	1.0	ug/L	50.1		90.5	70-148	7.24	24	
Acetone	100.7	10.0	ug/L	100		101	43-172	3.47	30	
Methyl Iodide	79.76	1.0	ug/L	100		79.8	69-170	8.50	30	
Carbon Disulfide	82.86	1.0	ug/L	100		82.9	72-162	9.62	24	
Methylene Chloride	37.41	5.0	ug/L	50.1		74.7	68-142	8.18	21	
trans-1,2-Dichloroethylene	46.21	1.0	ug/L	50.1		92.3	66-148	4.38	27	
1,1-Dichloroethane	45.27	1.0	ug/L	50.1		90.4	66-143	5.92	24	
Vinyl Acetate	133.7	5.0	ug/L	140		95.5	43-153	0.330	30	
cis-1,2-Dichloroethylene	45.39	1.0	ug/L	50.4		90.1	71-149	3.59	26	
2-Butanone (MEK)	98.30	10.0	ug/L	100		98.3	52-159	11.1	27	
Bromochloromethane	44.88	1.0	ug/L	50.4		89.0	69-143	4.19	23	
Chloroform	44.97	1.0	ug/L	50.1		89.8	69-144	4.07	23	
1,1,1-Trichloroethane	46.93	1.0	ug/L	50.1		93.6	62-129	6.73	24	
Carbon Tetrachloride	46.61	1.0	ug/L	50.1		93.1	63-141	6.34	25	
Benzene	44.27	1.0	ug/L	50.4		87.8	71-134	8.56	24	
1,2-Dichloroethane	46.46	1.0	ug/L	50.1		92.8	72-132	2.78	24	
Trichloroethylene	46.81	1.0	ug/L	50.1		93.4	71-135	6.39	24	
1,2-Dichloropropane	45.98	1.0	ug/L	50.1		91.8	69-136	4.84	24	
Dibromomethane	47.67	1.0	ug/L	50.4		94.6	73-147	0.610	25	
Bromodichloromethane	47.46	1.0	ug/L	50.1		94.8	68-129	4.09	22	
cis-1,3-Dichloropropene	45.52	1.0	ug/L	50.1		90.9	65-134	2.64	23	
4-Methyl-2-pentanone (MIBK)	98.96	5.0	ug/L	100		99.0	58-147	2.38	27	
Toluene	48.04	1.0	ug/L	50.5		95.2	72-133	8.19	24	
trans-1,3-Dichloropropene	43.12	1.0	ug/L	50.1		86.1	67-130	2.74	24	

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CERTIFICATE OF ANALYSIS

1IC0573

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1IC1002 - EPA 5030B - EPA 8260D										
LCS Dup (1IC1002-BSD2)										
Prepared: 03/19/25 00:00 Analyzed: 03/20/25 02:21										
1,1,2-Trichloroethane	43.58	1.0	ug/L	50.1		87.0	69-135	5.29	23	
Tetrachloroethylene	49.29	1.0	ug/L	50.1		98.4	69-130	3.06	25	
2-Hexanone (MBK)	109.8	5.0	ug/L	100		110	55-144	1.11	25	
Dibromochloromethane	50.60	1.0	ug/L	50.1		101	73-127	1.83	22	
1,2-Dibromoethane	49.99	1.0	ug/L	50.2		99.5	67-132	2.18	24	
Chlorobenzene	46.48	1.0	ug/L	50.1		92.8	72-123	3.78	23	
1,1,1,2-Tetrachloroethane	47.54	1.0	ug/L	50.3		94.4	73-127	1.23	24	
Ethylbenzene	50.79	1.0	ug/L	50.2		101	71-127	4.77	26	
Xylenes, total	151.3	2.0	ug/L	151		100	74-127	4.92	25	
Styrene	50.35	1.0	ug/L	50.4		100	66-126	5.22	23	
Bromoform	49.74	1.0	ug/L	50.1		99.3	68-130	1.20	23	
1,2,3-Trichloropropane	43.54	1.0	ug/L	50.3		86.5	63-136	6.70	24	
trans-1,4-Dichloro-2-butene	91.99	5.0	ug/L	100		92.0	54-134	0.553	27	
1,1,2,2-Tetrachloroethane	50.29	1.0	ug/L	50.1		100	61-131	5.39	29	
1,4-Dichlorobenzene	50.44	1.0	ug/L	50.1		101	70-129	3.78	24	
1,2-Dichlorobenzene	52.65	1.0	ug/L	50.1		105	69-126	3.01	26	
1,2-Dibromo-3-chloropropane	54.86	5.0	ug/L	50.1		109	50-143	9.05	30	
Surrogate: Dibromofluoromethane	45.7		ug/L	50.2		91.1	75-136			
Surrogate: 1,2-Dichloroethane-d4	47.1		ug/L	50.1		94.1	61-142			
Surrogate: Toluene-d8	48.9		ug/L	50.4		97.0	82-121			
Surrogate: 4-Bromofluorobenzene	47.9		ug/L	50.1		95.5	80-116			
Matrix Spike (1IC1002-MS1)										
Source: 1IC0851-01										
Prepared: 03/19/25 00:00 Analyzed: 03/20/25 00:30										
Chloromethane	275.6	10.0	ug/L	303	ND	90.9	61-152			
Vinyl Chloride	278.2	10.0	ug/L	302	ND	92.0	66-149			
Bromomethane	272.5	10.0	ug/L	301	ND	90.5	43-171			
Chloroethane	271.4	10.0	ug/L	303	ND	89.5	69-148			
Trichlorofluoromethane	282.9	10.0	ug/L	303	ND	93.3	62-163			
1,1-Dichloroethylene	469.4	10.0	ug/L	501	ND	93.6	70-148			
Acetone	1004	100	ug/L	1000	ND	100	45-173			
Methyl Iodide	838.5	10.0	ug/L	1000	ND	83.8	62-167			
Carbon Disulfide	882.1	10.0	ug/L	1000	ND	88.2	71-163			
Methylene Chloride	402.5	50.0	ug/L	501	ND	80.3	69-140			
trans-1,2-Dichloroethylene	468.3	10.0	ug/L	501	ND	93.5	69-144			
1,1-Dichloroethane	461.2	10.0	ug/L	501	ND	92.1	70-138			
Vinyl Acetate	1380	50.0	ug/L	1400	ND	98.6	58-142			
cis-1,2-Dichloroethylene	452.3	10.0	ug/L	504	ND	89.8	68-151			
2-Butanone (MEK)	822.8	100	ug/L	1000	ND	82.3	50-160			
Bromochloromethane	447.0	10.0	ug/L	504	ND	88.7	65-143			
Chloroform	462.4	10.0	ug/L	501	ND	92.3	71-143			
1,1,1-Trichloroethane	478.8	10.0	ug/L	501	ND	95.5	63-133			
Carbon Tetrachloride	481.2	10.0	ug/L	501	ND	96.1	63-142			
Benzene	472.1	10.0	ug/L	504	ND	93.6	69-133			

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CERTIFICATE OF ANALYSIS

1IC0573

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1IC1002 - EPA 5030B - EPA 8260D										
Matrix Spike (1IC1002-MS1)	Source: 1IC0851-01			Prepared: 03/19/25 00:00 Analyzed: 03/20/25 00:30						
1,2-Dichloroethane	470.5	10.0	ug/L	501	ND	93.9	63-138			
Trichloroethylene	477.0	10.0	ug/L	501	ND	95.2	71-133			
1,2-Dichloropropane	467.5	10.0	ug/L	501	ND	93.3	69-132			
Dibromomethane	479.5	10.0	ug/L	504	ND	95.2	70-147			
Bromodichloromethane	489.8	10.0	ug/L	501	ND	97.8	67-130			
cis-1,3-Dichloropropene	459.5	10.0	ug/L	501	ND	91.7	61-126			
4-Methyl-2-pentanone (MIBK)	924.8	50.0	ug/L	1000	ND	92.5	55-147			
Toluene	512.3	10.0	ug/L	505	ND	101	71-133			
trans-1,3-Dichloropropene	431.4	10.0	ug/L	501	ND	86.2	63-124			
1,1,2-Trichloroethane	447.9	10.0	ug/L	501	ND	89.4	69-133			
Tetrachloroethylene	501.7	10.0	ug/L	501	ND	100	70-124			
2-Hexanone (MBK)	988.2	50.0	ug/L	1000	ND	98.8	53-141			
Dibromochloromethane	498.3	10.0	ug/L	501	ND	99.5	74-122			
1,2-Dibromoethane	496.1	10.0	ug/L	502	ND	98.8	66-127			
Chlorobenzene	480.9	10.0	ug/L	501	ND	96.0	76-116			
1,1,1,2-Tetrachloroethane	475.1	10.0	ug/L	503	ND	94.4	77-121			
Ethylbenzene	523.3	10.0	ug/L	502	ND	104	73-124			
Xylenes, total	1581	20.0	ug/L	1510	ND	105	75-123			
Styrene	529.4	10.0	ug/L	504	ND	105	70-120			
Bromoform	489.5	10.0	ug/L	501	ND	97.7	70-124			
1,2,3-Trichloropropane	458.4	10.0	ug/L	503	ND	91.1	62-135			
trans-1,4-Dichloro-2-butene	915.4	50.0	ug/L	1000	ND	91.5	50-120			
1,1,2,2-Tetrachloroethane	451.2	10.0	ug/L	501	ND	90.1	63-126			
1,4-Dichlorobenzene	457.7	10.0	ug/L	501	ND	91.3	72-119			
1,2-Dichlorobenzene	470.0	10.0	ug/L	501	ND	93.8	71-117			
1,2-Dibromo-3-chloropropane	437.7	50.0	ug/L	501	ND	87.3	49-134			
Surrogate: Dibromofluoromethane	446		ug/L	502		88.9	75-136			
Surrogate: 1,2-Dichloroethane-d4	448		ug/L	501		89.4	61-142			
Surrogate: Toluene-d8	498		ug/L	504		98.9	82-121			
Surrogate: 4-Bromofluorobenzene	500		ug/L	501		99.6	80-116			
Matrix Spike (1IC1002-MS2)	Source: 1IC0851-21			Prepared: 03/19/25 00:00 Analyzed: 03/20/25 10:10						
Chloromethane	283.7	10.0	ug/L	303	ND	93.6	61-152			
Vinyl Chloride	285.5	10.0	ug/L	302	ND	94.4	66-149			
Bromomethane	257.4	10.0	ug/L	301	ND	85.5	43-171			
Chloroethane	286.2	10.0	ug/L	303	ND	94.4	69-148			
Trichlorofluoromethane	305.5	10.0	ug/L	303	ND	101	62-163			
1,1-Dichloroethylene	508.7	10.0	ug/L	501	ND	101	70-148			
Acetone	1148	100	ug/L	1000	ND	115	45-173			
Methyl Iodide	892.2	10.0	ug/L	1000	ND	89.2	62-167			
Carbon Disulfide	941.3	10.0	ug/L	1000	ND	94.1	71-163			
Methylene Chloride	432.2	50.0	ug/L	501	ND	86.3	69-140			
trans-1,2-Dichloroethylene	500.9	10.0	ug/L	501	ND	100	69-144			

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CERTIFICATE OF ANALYSIS

1IC0573

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1IC1002 - EPA 5030B - EPA 8260D										
Matrix Spike (1IC1002-MS2)	Source: 1IC0851-21			Prepared: 03/19/25 00:00 Analyzed: 03/20/25 10:10						
1,1-Dichloroethane	497.4	10.0	ug/L	501	ND	99.3	70-138			
Vinyl Acetate	1471	50.0	ug/L	1400	ND	105	58-142			
cis-1,2-Dichloroethylene	493.4	10.0	ug/L	504	ND	98.0	68-151			
2-Butanone (MEK)	899.1	100	ug/L	1000	ND	89.9	50-160			
Bromochloromethane	491.6	10.0	ug/L	504	ND	97.5	65-143			
Chloroform	498.0	10.0	ug/L	501	ND	99.4	71-143			
1,1,1-Trichloroethane	507.1	10.0	ug/L	501	ND	101	63-133			
Carbon Tetrachloride	503.0	10.0	ug/L	501	ND	100	63-142			
Benzene	491.1	10.0	ug/L	504	ND	97.4	69-133			
1,2-Dichloroethane	511.2	10.0	ug/L	501	ND	102	63-138			
Trichloroethylene	504.1	10.0	ug/L	501	ND	101	71-133			
1,2-Dichloropropane	492.6	10.0	ug/L	501	ND	98.3	69-132			
Dibromomethane	505.3	10.0	ug/L	504	ND	100	70-147			
Bromodichloromethane	513.7	10.0	ug/L	501	ND	103	67-130			
cis-1,3-Dichloropropene	472.1	10.0	ug/L	501	ND	94.3	61-126			
4-Methyl-2-pentanone (MIBK)	1052	50.0	ug/L	1000	ND	105	55-147			
Toluene	521.2	10.0	ug/L	505	ND	103	71-133			
trans-1,3-Dichloropropene	459.2	10.0	ug/L	501	ND	91.7	63-124			
1,1,2-Trichloroethane	481.9	10.0	ug/L	501	ND	96.2	69-133			
Tetrachloroethylene	494.4	10.0	ug/L	501	ND	98.7	70-124			
2-Hexanone (MBK)	1088	50.0	ug/L	1000	ND	109	53-141			
Dibromochloromethane	525.4	10.0	ug/L	501	ND	105	74-122			
1,2-Dibromoethane	511.6	10.0	ug/L	502	ND	102	66-127			
Chlorobenzene	488.5	10.0	ug/L	501	ND	97.5	76-116			
1,1,1,2-Tetrachloroethane	493.4	10.0	ug/L	503	ND	98.0	77-121			
Ethylbenzene	522.7	10.0	ug/L	502	ND	104	73-124			
Xylenes, total	1570	20.0	ug/L	1510	ND	104	75-123			
Styrene	532.1	10.0	ug/L	504	ND	106	70-120			
Bromoform	523.2	10.0	ug/L	501	ND	104	70-124			
1,2,3-Trichloropropane	482.3	10.0	ug/L	503	ND	95.8	62-135			
trans-1,4-Dichloro-2-butene	922.3	50.0	ug/L	1000	ND	92.2	50-120			
1,1,2,2-Tetrachloroethane	479.1	10.0	ug/L	501	ND	95.6	63-126			
1,4-Dichlorobenzene	464.0	10.0	ug/L	501	ND	92.6	72-119			
1,2-Dichlorobenzene	497.9	10.0	ug/L	501	ND	99.4	71-117			
1,2-Dibromo-3-chloropropane	619.4	50.0	ug/L	501	ND	124	49-134			
Surrogate: Dibromofluoromethane	478		ug/L	502		95.3	75-136			
Surrogate: 1,2-Dichloroethane-d4	476		ug/L	501		95.0	61-142			
Surrogate: Toluene-d8	500		ug/L	504		99.2	82-121			
Surrogate: 4-Bromofluorobenzene	503		ug/L	501		100	80-116			
Matrix Spike Dup (1IC1002-MSD1)	Source: 1IC0851-01			Prepared: 03/19/25 00:00 Analyzed: 03/20/25 00:52						
Chloromethane	269.5	10.0	ug/L	303	ND	88.9	61-152	2.24	26	
Vinyl Chloride	272.9	10.0	ug/L	302	ND	90.2	66-149	1.92	23	

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CERTIFICATE OF ANALYSIS

1IC0573

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1IC1002 - EPA 5030B - EPA 8260D										
Matrix Spike Dup (1IC1002-MSD1)	Source: 1IC0851-01			Prepared: 03/19/25 00:00 Analyzed: 03/20/25 00:52						
Bromomethane	251.1	10.0	ug/L	301	ND	83.4	43-171	8.17	29	
Chloroethane	268.3	10.0	ug/L	303	ND	88.5	69-148	1.15	25	
Trichlorofluoromethane	250.3	10.0	ug/L	303	ND	82.6	62-163	12.2	25	
1,1-Dichloroethylene	425.5	10.0	ug/L	501	ND	84.9	70-148	9.81	22	
Acetone	911.3	100	ug/L	1000	ND	91.1	45-173	9.69	30	
Methyl Iodide	806.9	10.0	ug/L	1000	ND	80.7	62-167	3.84	24	
Carbon Disulfide	826.1	10.0	ug/L	1000	ND	82.6	71-163	6.56	22	
Methylene Chloride	369.4	50.0	ug/L	501	ND	73.7	69-140	8.58	19	
trans-1,2-Dichloroethylene	420.5	10.0	ug/L	501	ND	84.0	69-144	10.8	22	
1,1-Dichloroethane	414.5	10.0	ug/L	501	ND	82.7	70-138	10.7	20	
Vinyl Acetate	1225	50.0	ug/L	1400	ND	87.5	58-142	11.9	24	
cis-1,2-Dichloroethylene	408.4	10.0	ug/L	504	ND	81.1	68-151	10.2	22	
2-Butanone (MEK)	809.1	100	ug/L	1000	ND	80.9	50-160	1.68	23	
Bromochloromethane	408.2	10.0	ug/L	504	ND	81.0	65-143	9.07	22	
Chloroform	403.4	10.0	ug/L	501	ND	80.5	71-143	13.6	21	
1,1,1-Trichloroethane	448.2	10.0	ug/L	501	ND	89.4	63-133	6.60	23	
Carbon Tetrachloride	441.4	10.0	ug/L	501	ND	88.1	63-142	8.63	22	
Benzene	437.8	10.0	ug/L	504	ND	86.8	69-133	7.54	18	
1,2-Dichloroethane	428.3	10.0	ug/L	501	ND	85.5	63-138	9.39	20	
Trichloroethylene	442.6	10.0	ug/L	501	ND	88.4	71-133	7.48	23	
1,2-Dichloropropane	422.7	10.0	ug/L	501	ND	84.4	69-132	10.1	20	
Dibromomethane	420.8	10.0	ug/L	504	ND	83.5	70-147	13.0	22	
Bromodichloromethane	441.6	10.0	ug/L	501	ND	88.2	67-130	10.4	21	
cis-1,3-Dichloropropene	421.2	10.0	ug/L	501	ND	84.1	61-126	8.70	21	
4-Methyl-2-pentanone (MIBK)	920.9	50.0	ug/L	1000	ND	92.1	55-147	0.423	23	
Toluene	495.5	10.0	ug/L	505	ND	98.2	71-133	3.33	19	
trans-1,3-Dichloropropene	401.5	10.0	ug/L	501	ND	80.2	63-124	7.18	21	
1,1,2-Trichloroethane	417.5	10.0	ug/L	501	ND	83.3	69-133	7.03	19	
Tetrachloroethylene	479.1	10.0	ug/L	501	ND	95.6	70-124	4.61	24	
2-Hexanone (MBK)	979.4	50.0	ug/L	1000	ND	97.9	53-141	0.894	24	
Dibromochloromethane	467.5	10.0	ug/L	501	ND	93.4	74-122	6.38	21	
1,2-Dibromoethane	459.8	10.0	ug/L	502	ND	91.5	66-127	7.59	23	
Chlorobenzene	453.4	10.0	ug/L	501	ND	90.5	76-116	5.89	21	
1,1,1,2-Tetrachloroethane	441.3	10.0	ug/L	503	ND	87.7	77-121	7.38	25	
Ethylbenzene	503.7	10.0	ug/L	502	ND	100	73-124	3.82	20	
Xylenes, total	1517	20.0	ug/L	1510	ND	100	75-123	4.11	20	
Styrene	508.2	10.0	ug/L	504	ND	101	70-120	4.09	23	
Bromoform	472.1	10.0	ug/L	501	ND	94.2	70-124	3.62	22	
1,2,3-Trichloropropane	442.9	10.0	ug/L	503	ND	88.0	62-135	3.44	28	
trans-1,4-Dichloro-2-butene	907.5	50.0	ug/L	1000	ND	90.8	50-120	0.867	26	
1,1,2,2-Tetrachloroethane	475.9	10.0	ug/L	501	ND	95.0	63-126	5.33	24	
1,4-Dichlorobenzene	471.1	10.0	ug/L	501	ND	94.0	72-119	2.89	24	
1,2-Dichlorobenzene	492.6	10.0	ug/L	501	ND	98.3	71-117	4.70	24	

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CERTIFICATE OF ANALYSIS

11C0573

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 11C1002 - EPA 5030B - EPA 8260D										
Matrix Spike Dup (11C1002-MSD1)	Source: 11C0851-01			Prepared: 03/19/25 00:00 Analyzed: 03/20/25 00:52						
1,2-Dibromo-3-chloropropane	568.8	50.0	ug/L	501	ND	113	49-134	26.1	28	
Surrogate: Dibromofluoromethane	412		ug/L	502		82.1	75-136			
Surrogate: 1,2-Dichloroethane-d4	414		ug/L	501		82.8	61-142			
Surrogate: Toluene-d8	507		ug/L	504		101	82-121			
Surrogate: 4-Bromofluorobenzene	486		ug/L	501		96.9	80-116			
Matrix Spike Dup (11C1002-MSD2)	Source: 11C0851-21			Prepared: 03/19/25 00:00 Analyzed: 03/20/25 10:33						
Chloromethane	288.8	10.0	ug/L	303	ND	95.2	61-152	1.78	26	
Vinyl Chloride	288.6	10.0	ug/L	302	ND	95.4	66-149	1.08	23	
Bromomethane	261.0	10.0	ug/L	301	ND	86.6	43-171	1.39	29	
Chloroethane	279.3	10.0	ug/L	303	ND	92.1	69-148	2.44	25	
Trichlorofluoromethane	288.9	10.0	ug/L	303	ND	95.3	62-163	5.59	25	
1,1-Dichloroethylene	492.7	10.0	ug/L	501	ND	98.3	70-148	3.20	22	
Acetone	1033	100	ug/L	1000	ND	103	45-173	10.5	30	
Methyl Iodide	905.7	10.0	ug/L	1000	ND	90.6	62-167	1.50	24	
Carbon Disulfide	933.6	10.0	ug/L	1000	ND	93.4	71-163	0.821	22	
Methylene Chloride	436.1	50.0	ug/L	501	ND	87.0	69-140	0.898	19	
trans-1,2-Dichloroethylene	487.9	10.0	ug/L	501	ND	97.4	69-144	2.63	22	
1,1-Dichloroethane	484.3	10.0	ug/L	501	ND	96.7	70-138	2.67	20	
Vinyl Acetate	1438	50.0	ug/L	1400	ND	103	58-142	2.27	24	
cis-1,2-Dichloroethylene	487.4	10.0	ug/L	504	ND	96.8	68-151	1.22	22	
2-Butanone (MEK)	898.6	100	ug/L	1000	ND	89.9	50-160	0.0556	23	
Bromochloromethane	494.7	10.0	ug/L	504	ND	98.2	65-143	0.629	22	
Chloroform	481.8	10.0	ug/L	501	ND	96.2	71-143	3.31	21	
1,1,1-Trichloroethane	498.9	10.0	ug/L	501	ND	99.6	63-133	1.63	23	
Carbon Tetrachloride	495.0	10.0	ug/L	501	ND	98.8	63-142	1.60	22	
Benzene	489.0	10.0	ug/L	504	ND	97.0	69-133	0.429	18	
1,2-Dichloroethane	513.6	10.0	ug/L	501	ND	103	63-138	0.468	20	
Trichloroethylene	492.2	10.0	ug/L	501	ND	98.3	71-133	2.39	23	
1,2-Dichloropropane	504.8	10.0	ug/L	501	ND	101	69-132	2.45	20	
Dibromomethane	512.9	10.0	ug/L	504	ND	102	70-147	1.49	22	
Bromodichloromethane	508.6	10.0	ug/L	501	ND	102	67-130	0.998	21	
cis-1,3-Dichloropropene	473.3	10.0	ug/L	501	ND	94.5	61-126	0.254	21	
4-Methyl-2-pentanone (MIBK)	1085	50.0	ug/L	1000	ND	109	55-147	3.17	23	
Toluene	530.2	10.0	ug/L	505	ND	105	71-133	1.71	19	
trans-1,3-Dichloropropene	457.3	10.0	ug/L	501	ND	91.3	63-124	0.415	21	
1,1,2-Trichloroethane	489.2	10.0	ug/L	501	ND	97.7	69-133	1.50	19	
Tetrachloroethylene	491.6	10.0	ug/L	501	ND	98.1	70-124	0.568	24	
2-Hexanone (MBK)	1108	50.0	ug/L	1000	ND	111	53-141	1.78	24	
Dibromochloromethane	524.8	10.0	ug/L	501	ND	105	74-122	0.114	21	
1,2-Dibromoethane	516.1	10.0	ug/L	502	ND	103	66-127	0.876	23	
Chlorobenzene	487.5	10.0	ug/L	501	ND	97.3	76-116	0.205	21	
1,1,1,2-Tetrachloroethane	479.9	10.0	ug/L	503	ND	95.3	77-121	2.77	25	

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CERTIFICATE OF ANALYSIS

1IC0573

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1IC1002 - EPA 5030B - EPA 8260D										
Matrix Spike Dup (1IC1002-MSD2)	Source: 1IC0851-21			Prepared: 03/19/25 00:00 Analyzed: 03/20/25 10:33						
Ethylbenzene	522.3	10.0	ug/L	502	ND	104	73-124	0.0766	20	
Xylenes, total	1580	20.0	ug/L	1510	ND	105	75-123	0.686	20	
Styrene	540.0	10.0	ug/L	504	ND	107	70-120	1.47	23	
Bromoform	537.3	10.0	ug/L	501	ND	107	70-124	2.66	22	
1,2,3-Trichloropropane	482.6	10.0	ug/L	503	ND	95.9	62-135	0.0622	28	
trans-1,4-Dichloro-2-butene	921.4	50.0	ug/L	1000	ND	92.1	50-120	0.0976	26	
1,1,2,2-Tetrachloroethane	490.7	10.0	ug/L	501	ND	97.9	63-126	2.39	24	
1,4-Dichlorobenzene	481.6	10.0	ug/L	501	ND	96.1	72-119	3.72	24	
1,2-Dichlorobenzene	507.0	10.0	ug/L	501	ND	101	71-117	1.81	24	
1,2-Dibromo-3-chloropropane	602.9	50.0	ug/L	501	ND	120	49-134	2.70	28	
Surrogate: Dibromofluoromethane	470		ug/L	502		93.6	75-136			
Surrogate: 1,2-Dichloroethane-d4	462		ug/L	501		92.3	61-142			
Surrogate: Toluene-d8	495		ug/L	504		98.2	82-121			
Surrogate: 4-Bromofluorobenzene	497		ug/L	501		99.1	80-116			

Batch 1IC1114 - EPA 5030B - EPA 8260D

Blank (1IC1114-BLK1)	Prepared: 03/20/25 00:00 Analyzed: 03/21/25 01:15									
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							
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							

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CERTIFICATE OF ANALYSIS

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Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1IC1114 - EPA 5030B - EPA 8260D										
Blank (1IC1114-BLK1)				Prepared: 03/20/25 00:00 Analyzed: 03/21/25 01:15						
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	1.03	1.0	ug/L							B1
Xylenes, total	5.89	2.0	ug/L							B1
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	39.4		ug/L	50.2		78.5	75-136			
Surrogate: 1,2-Dichloroethane-d4	37.8		ug/L	50.1		75.4	61-142			
Surrogate: Toluene-d8	52.6		ug/L	50.4		104	82-121			
Surrogate: 4-Bromofluorobenzene	51.4		ug/L	50.1		103	80-116			
LCS (1IC1114-BS1)				Prepared: 03/20/25 00:00 Analyzed: 03/21/25 00:08						
Chloromethane	26.48	1.0	ug/L	30.3		87.3	63-155			
Vinyl Chloride	28.31	1.0	ug/L	30.2		93.6	70-154			
Bromomethane	26.25	1.0	ug/L	30.1		87.1	52-176			
Chloroethane	27.99	1.0	ug/L	30.3		92.3	72-148			
Trichlorofluoromethane	31.65	1.0	ug/L	30.3		104	70-152			
1,1-Dichloroethylene	54.63	1.0	ug/L	50.1		109	70-148			
Acetone	130.5	10.0	ug/L	100		131	43-172			
Methyl Iodide	93.28	1.0	ug/L	100		93.3	69-170			
Carbon Disulfide	92.92	1.0	ug/L	100		92.9	72-162			
Methylene Chloride	46.84	5.0	ug/L	50.1		93.5	68-142			
trans-1,2-Dichloroethylene	54.51	1.0	ug/L	50.1		109	66-148			
1,1-Dichloroethane	54.79	1.0	ug/L	50.1		109	66-143			
Vinyl Acetate	174.0	5.0	ug/L	140		124	43-153			
cis-1,2-Dichloroethylene	55.50	1.0	ug/L	50.4		110	71-149			
2-Butanone (MEK)	110.4	10.0	ug/L	100		110	52-159			
Bromochloromethane	55.06	1.0	ug/L	50.4		109	69-143			

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CERTIFICATE OF ANALYSIS

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Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1IC1114 - EPA 5030B - EPA 8260D										
LCS (1IC1114-BS1)										
Prepared: 03/20/25 00:00 Analyzed: 03/21/25 00:08										
Chloroform	55.37	1.0	ug/L	50.1		111	69-144			
1,1,1-Trichloroethane	54.48	1.0	ug/L	50.1		109	62-129			
Carbon Tetrachloride	52.67	1.0	ug/L	50.1		105	63-141			
Benzene	49.95	1.0	ug/L	50.4		99.0	71-134			
1,2-Dichloroethane	59.78	1.0	ug/L	50.1		119	72-132			
Trichloroethylene	51.70	1.0	ug/L	50.1		103	71-135			
1,2-Dichloropropane	54.72	1.0	ug/L	50.1		109	69-136			
Dibromomethane	59.10	1.0	ug/L	50.4		117	73-147			
Bromodichloromethane	57.78	1.0	ug/L	50.1		115	68-129			
cis-1,3-Dichloropropene	57.27	1.0	ug/L	50.1		114	65-134			
4-Methyl-2-pentanone (MIBK)	123.9	5.0	ug/L	100		124	58-147			
Toluene	52.89	1.0	ug/L	50.5		105	72-133			
trans-1,3-Dichloropropene	55.76	1.0	ug/L	50.1		111	67-130			
1,1,2-Trichloroethane	55.56	1.0	ug/L	50.1		111	69-135			
Tetrachloroethylene	48.19	1.0	ug/L	50.1		96.2	69-130			
2-Hexanone (MBK)	125.7	5.0	ug/L	100		126	55-144			
Dibromochloromethane	56.14	1.0	ug/L	50.1		112	73-127			
1,2-Dibromoethane	58.21	1.0	ug/L	50.2		116	67-132			
Chlorobenzene	49.80	1.0	ug/L	50.1		99.4	72-123			
1,1,1,2-Tetrachloroethane	51.70	1.0	ug/L	50.3		103	73-127			
Ethylbenzene	53.92	1.0	ug/L	50.2		107	71-127			
Xylenes, total	168.0	2.0	ug/L	151		111	74-127			
Styrene	54.47	1.0	ug/L	50.4		108	66-126			
Bromoform	58.05	1.0	ug/L	50.1		116	68-130			
1,2,3-Trichloropropane	52.07	1.0	ug/L	50.3		103	63-136			
trans-1,4-Dichloro-2-butene	106.7	5.0	ug/L	100		107	54-134			
1,1,2,2-Tetrachloroethane	52.49	1.0	ug/L	50.1		105	61-131			
1,4-Dichlorobenzene	48.14	1.0	ug/L	50.1		96.0	70-129			
1,2-Dichlorobenzene	52.02	1.0	ug/L	50.1		104	69-126			
1,2-Dibromo-3-chloropropane	63.34	5.0	ug/L	50.1		126	50-143			
Surrogate: Dibromofluoromethane	53.6		ug/L	50.2		107	75-136			
Surrogate: 1,2-Dichloroethane-d4	55.5		ug/L	50.1		111	61-142			
Surrogate: Toluene-d8	49.5		ug/L	50.4		98.2	82-121			
Surrogate: 4-Bromofluorobenzene	51.7		ug/L	50.1		103	80-116			
LCS Dup (1IC1114-BS1)										
Prepared: 03/20/25 00:00 Analyzed: 03/21/25 00:30										
Chloromethane	23.44	1.0	ug/L	30.3		77.3	63-155	12.2	24	
Vinyl Chloride	25.44	1.0	ug/L	30.2		84.1	70-154	10.7	25	
Bromomethane	25.20	1.0	ug/L	30.1		83.7	52-176	4.08	27	
Chloroethane	25.77	1.0	ug/L	30.3		85.0	72-148	8.26	25	
Trichlorofluoromethane	29.00	1.0	ug/L	30.3		95.7	70-152	8.74	26	
1,1-Dichloroethylene	51.05	1.0	ug/L	50.1		102	70-148	6.78	24	
Acetone	131.0	10.0	ug/L	100		131	43-172	0.382	30	

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CERTIFICATE OF ANALYSIS

1IC0573

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1IC1114 - EPA 5030B - EPA 8260D										
LCS Dup (1IC1114-BSD1)										
Prepared: 03/20/25 00:00 Analyzed: 03/21/25 00:30										
Methyl Iodide	85.49	1.0	ug/L	100		85.5	69-170	8.72	30	
Carbon Disulfide	86.03	1.0	ug/L	100		86.0	72-162	7.70	24	
Methylene Chloride	44.21	5.0	ug/L	50.1		88.2	68-142	5.78	21	
trans-1,2-Dichloroethylene	51.98	1.0	ug/L	50.1		104	66-148	4.75	27	
1,1-Dichloroethane	52.46	1.0	ug/L	50.1		105	66-143	4.34	24	
Vinyl Acetate	167.6	5.0	ug/L	140		120	43-153	3.74	30	
cis-1,2-Dichloroethylene	54.24	1.0	ug/L	50.4		108	71-149	2.30	26	
2-Butanone (MEK)	113.2	10.0	ug/L	100		113	52-159	2.51	27	
Bromochloromethane	53.02	1.0	ug/L	50.4		105	69-143	3.77	23	
Chloroform	53.03	1.0	ug/L	50.1		106	69-144	4.32	23	
1,1,1-Trichloroethane	50.60	1.0	ug/L	50.1		101	62-129	7.38	24	
Carbon Tetrachloride	49.07	1.0	ug/L	50.1		98.0	63-141	7.08	25	
Benzene	45.04	1.0	ug/L	50.4		89.3	71-134	10.3	24	
1,2-Dichloroethane	55.99	1.0	ug/L	50.1		112	72-132	6.55	24	
Trichloroethylene	47.11	1.0	ug/L	50.1		94.0	71-135	9.29	24	
1,2-Dichloropropane	50.04	1.0	ug/L	50.1		99.9	69-136	8.93	24	
Dibromomethane	55.65	1.0	ug/L	50.4		110	73-147	6.01	25	
Bromodichloromethane	54.13	1.0	ug/L	50.1		108	68-129	6.52	22	
cis-1,3-Dichloropropene	52.51	1.0	ug/L	50.1		105	65-134	8.67	23	
4-Methyl-2-pentanone (MIBK)	116.0	5.0	ug/L	100		116	58-147	6.57	27	
Toluene	47.18	1.0	ug/L	50.5		93.5	72-133	11.4	24	
trans-1,3-Dichloropropene	51.78	1.0	ug/L	50.1		103	67-130	7.40	24	
1,1,2-Trichloroethane	50.54	1.0	ug/L	50.1		101	69-135	9.46	23	
Tetrachloroethylene	43.94	1.0	ug/L	50.1		87.7	69-130	9.23	25	
2-Hexanone (MBK)	120.5	5.0	ug/L	100		120	55-144	4.28	25	
Dibromochloromethane	55.80	1.0	ug/L	50.1		111	73-127	0.607	22	
1,2-Dibromoethane	56.28	1.0	ug/L	50.2		112	67-132	3.37	24	
Chlorobenzene	46.49	1.0	ug/L	50.1		92.8	72-123	6.88	23	
1,1,1,2-Tetrachloroethane	50.03	1.0	ug/L	50.3		99.4	73-127	3.28	24	
Ethylbenzene	49.32	1.0	ug/L	50.2		98.3	71-127	8.91	26	
Xylenes, total	154.8	2.0	ug/L	151		102	74-127	8.14	25	
Styrene	50.91	1.0	ug/L	50.4		101	66-126	6.76	23	
Bromoform	53.73	1.0	ug/L	50.1		107	68-130	7.73	23	
1,2,3-Trichloropropane	52.66	1.0	ug/L	50.3		105	63-136	1.13	24	
trans-1,4-Dichloro-2-butene	102.1	5.0	ug/L	100		102	54-134	4.35	27	
1,1,2,2-Tetrachloroethane	51.30	1.0	ug/L	50.1		102	61-131	2.29	29	
1,4-Dichlorobenzene	46.48	1.0	ug/L	50.1		92.7	70-129	3.51	24	
1,2-Dichlorobenzene	49.48	1.0	ug/L	50.1		98.8	69-126	5.00	26	
1,2-Dibromo-3-chloropropane	58.43	5.0	ug/L	50.1		117	50-143	8.06	30	
Surrogate: Dibromofluoromethane	56.0		ug/L	50.2		112	75-136			
Surrogate: 1,2-Dichloroethane-d4	59.0		ug/L	50.1		118	61-142			
Surrogate: Toluene-d8	48.0		ug/L	50.4		95.2	82-121			
Surrogate: 4-Bromofluorobenzene	53.1		ug/L	50.1		106	80-116			

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CERTIFICATE OF ANALYSIS

1IC0573

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1IC1114 - EPA 5030B - EPA 8260D										
Matrix Spike (1IC1114-MS1)	Source: 1IC1317-01			Prepared: 03/20/25 00:00 Analyzed: 03/21/25 07:35						
Chloromethane	273.7	10.0	ug/L	303	ND	90.3	61-152			
Vinyl Chloride	287.1	10.0	ug/L	302	ND	94.9	66-149			
Bromomethane	259.3	10.0	ug/L	301	ND	86.1	43-171			
Chloroethane	282.6	10.0	ug/L	303	ND	93.2	69-148			
Trichlorofluoromethane	281.0	10.0	ug/L	303	ND	92.7	62-163			
1,1-Dichloroethylene	473.2	10.0	ug/L	501	ND	94.4	70-148			
Acetone	1002	100	ug/L	1000	ND	100	45-173			
Methyl Iodide	863.5	10.0	ug/L	1000	ND	86.4	62-167			
Carbon Disulfide	883.8	10.0	ug/L	1000	ND	88.4	71-163			
Methylene Chloride	428.6	50.0	ug/L	501	ND	85.5	69-140			
trans-1,2-Dichloroethylene	464.2	10.0	ug/L	501	ND	92.7	69-144			
1,1-Dichloroethane	459.6	10.0	ug/L	501	ND	91.7	70-138			
Vinyl Acetate	1395	50.0	ug/L	1400	ND	99.7	58-142			
cis-1,2-Dichloroethylene	452.0	10.0	ug/L	504	ND	89.8	68-151			
2-Butanone (MEK)	823.4	100	ug/L	1000	ND	82.3	50-160			
Bromochloromethane	466.1	10.0	ug/L	504	ND	92.5	65-143			
Chloroform	451.9	10.0	ug/L	501	ND	90.2	71-143			
1,1,1-Trichloroethane	472.1	10.0	ug/L	501	ND	94.2	63-133			
Carbon Tetrachloride	461.4	10.0	ug/L	501	ND	92.1	63-142			
Benzene	457.5	10.0	ug/L	504	ND	90.7	69-133			
1,2-Dichloroethane	477.6	10.0	ug/L	501	ND	95.4	63-138			
Trichloroethylene	460.8	10.0	ug/L	501	ND	92.0	71-133			
1,2-Dichloropropane	459.7	10.0	ug/L	501	ND	91.8	69-132			
Dibromomethane	474.7	10.0	ug/L	504	ND	94.2	70-147			
Bromodichloromethane	475.1	10.0	ug/L	501	ND	94.9	67-130			
cis-1,3-Dichloropropene	454.2	10.0	ug/L	501	ND	90.7	61-126			
4-Methyl-2-pentanone (MIBK)	1029	50.0	ug/L	1000	ND	103	55-147			
Toluene	506.9	10.0	ug/L	505	ND	100	71-133			
trans-1,3-Dichloropropene	430.0	10.0	ug/L	501	ND	85.9	63-124			
1,1,2-Trichloroethane	451.6	10.0	ug/L	501	ND	90.2	69-133			
Tetrachloroethylene	459.9	10.0	ug/L	501	ND	91.8	70-124			
2-Hexanone (MBK)	1060	50.0	ug/L	1000	ND	106	53-141			
Dibromochloromethane	483.9	10.0	ug/L	501	ND	96.6	74-122			
1,2-Dibromoethane	479.5	10.0	ug/L	502	ND	95.5	66-127			
Chlorobenzene	459.8	10.0	ug/L	501	ND	91.8	76-116			
1,1,1,2-Tetrachloroethane	442.3	10.0	ug/L	503	ND	87.9	77-121			
Ethylbenzene	503.1	10.0	ug/L	502	ND	100	73-124			
Xylenes, total	1535	20.0	ug/L	1510	ND	102	75-123			
Styrene	518.8	10.0	ug/L	504	ND	103	70-120			
Bromoform	478.6	10.0	ug/L	501	ND	95.5	70-124			
1,2,3-Trichloropropane	456.8	10.0	ug/L	503	ND	90.7	62-135			
trans-1,4-Dichloro-2-butene	858.7	50.0	ug/L	1000	ND	85.9	50-120			
1,1,2,2-Tetrachloroethane	450.9	10.0	ug/L	501	ND	90.0	63-126			

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CERTIFICATE OF ANALYSIS

1IC0573

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1IC1114 - EPA 5030B - EPA 8260D										
Matrix Spike (1IC1114-MS1)	Source: 1IC1317-01			Prepared: 03/20/25 00:00 Analyzed: 03/21/25 07:35						
1,4-Dichlorobenzene	446.6	10.0	ug/L	501	ND	89.1	72-119			
1,2-Dichlorobenzene	475.3	10.0	ug/L	501	ND	94.9	71-117			
1,2-Dibromo-3-chloropropane	486.8	50.0	ug/L	501	ND	97.1	49-134			
Surrogate: Dibromofluoromethane	464		ug/L	502		92.5	75-136			
Surrogate: 1,2-Dichloroethane-d4	473		ug/L	501		94.4	61-142			
Surrogate: Toluene-d8	509		ug/L	504		101	82-121			
Surrogate: 4-Bromofluorobenzene	516		ug/L	501		103	80-116			
Matrix Spike Dup (1IC1114-MSD1)	Source: 1IC1317-01			Prepared: 03/20/25 00:00 Analyzed: 03/21/25 07:57						
Chloromethane	275.7	10.0	ug/L	303	ND	90.9	61-152	0.728	26	
Vinyl Chloride	286.0	10.0	ug/L	302	ND	94.5	66-149	0.384	23	
Bromomethane	267.9	10.0	ug/L	301	ND	88.9	43-171	3.26	29	
Chloroethane	284.7	10.0	ug/L	303	ND	93.9	69-148	0.740	25	
Trichlorofluoromethane	288.3	10.0	ug/L	303	ND	95.1	62-163	2.56	25	
1,1-Dichloroethylene	487.6	10.0	ug/L	501	ND	97.3	70-148	3.00	22	
Acetone	1062	100	ug/L	1000	ND	106	45-173	5.81	30	
Methyl Iodide	884.4	10.0	ug/L	1000	ND	88.4	62-167	2.39	24	
Carbon Disulfide	914.7	10.0	ug/L	1000	ND	91.5	71-163	3.44	22	
Methylene Chloride	435.2	50.0	ug/L	501	ND	86.9	69-140	1.53	19	
trans-1,2-Dichloroethylene	481.5	10.0	ug/L	501	ND	96.1	69-144	3.66	22	
1,1-Dichloroethane	486.9	10.0	ug/L	501	ND	97.2	70-138	5.77	20	
Vinyl Acetate	1498	50.0	ug/L	1400	ND	107	58-142	7.13	24	
cis-1,2-Dichloroethylene	474.4	10.0	ug/L	504	ND	94.2	68-151	4.84	22	
2-Butanone (MEK)	952.9	100	ug/L	1000	ND	95.3	50-160	14.6	23	
Bromochloromethane	493.5	10.0	ug/L	504	ND	97.9	65-143	5.71	22	
Chloroform	473.3	10.0	ug/L	501	ND	94.5	71-143	4.63	21	
1,1,1-Trichloroethane	488.5	10.0	ug/L	501	ND	97.5	63-133	3.41	23	
Carbon Tetrachloride	471.4	10.0	ug/L	501	ND	94.1	63-142	2.14	22	
Benzene	470.9	10.0	ug/L	504	ND	93.4	69-133	2.89	18	
1,2-Dichloroethane	508.0	10.0	ug/L	501	ND	101	63-138	6.17	20	
Trichloroethylene	472.2	10.0	ug/L	501	ND	94.3	71-133	2.44	23	
1,2-Dichloropropane	489.7	10.0	ug/L	501	ND	97.8	69-132	6.32	20	
Dibromomethane	517.0	10.0	ug/L	504	ND	103	70-147	8.53	22	
Bromodichloromethane	514.5	10.0	ug/L	501	ND	103	67-130	7.96	21	
cis-1,3-Dichloropropene	478.7	10.0	ug/L	501	ND	95.6	61-126	5.25	21	
4-Methyl-2-pentanone (MIBK)	1076	50.0	ug/L	1000	ND	108	55-147	4.39	23	
Toluene	520.0	10.0	ug/L	505	ND	103	71-133	2.55	19	
trans-1,3-Dichloropropene	474.2	10.0	ug/L	501	ND	94.7	63-124	9.78	21	
1,1,2-Trichloroethane	486.9	10.0	ug/L	501	ND	97.2	69-133	7.52	19	
Tetrachloroethylene	462.1	10.0	ug/L	501	ND	92.2	70-124	0.477	24	
2-Hexanone (MBK)	1113	50.0	ug/L	1000	ND	111	53-141	4.85	24	
Dibromochloromethane	497.6	10.0	ug/L	501	ND	99.4	74-122	2.79	21	
1,2-Dibromoethane	506.0	10.0	ug/L	502	ND	101	66-127	5.38	23	

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CERTIFICATE OF ANALYSIS

1IC0573

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1IC1114 - EPA 5030B - EPA 8260D										
Matrix Spike Dup (1IC1114-MSD1) Source: 1IC1317-01 Prepared: 03/20/25 00:00 Analyzed: 03/21/25 07:57										
Chlorobenzene	474.4	10.0	ug/L	501	ND	94.7	76-116	3.13	21	
1,1,1,2-Tetrachloroethane	468.2	10.0	ug/L	503	ND	93.0	77-121	5.69	25	
Ethylbenzene	512.0	10.0	ug/L	502	ND	102	73-124	1.75	20	
Xylenes, total	1560	20.0	ug/L	1510	ND	103	75-123	1.61	20	
Styrene	527.2	10.0	ug/L	504	ND	105	70-120	1.61	23	
Bromoform	507.0	10.0	ug/L	501	ND	101	70-124	5.76	22	
1,2,3-Trichloropropane	476.4	10.0	ug/L	503	ND	94.6	62-135	4.20	28	
trans-1,4-Dichloro-2-butene	941.6	50.0	ug/L	1000	ND	94.2	50-120	9.21	26	
1,1,2,2-Tetrachloroethane	488.5	10.0	ug/L	501	ND	97.5	63-126	8.01	24	
1,4-Dichlorobenzene	468.1	10.0	ug/L	501	ND	93.4	72-119	4.70	24	
1,2-Dichlorobenzene	503.1	10.0	ug/L	501	ND	100	71-117	5.68	24	
1,2-Dibromo-3-chloropropane	544.9	50.0	ug/L	501	ND	109	49-134	11.3	28	
Surrogate: Dibromofluoromethane	467		ug/L	502		93.1	75-136			
Surrogate: 1,2-Dichloroethane-d4	474		ug/L	501		94.6	61-142			
Surrogate: Toluene-d8	500		ug/L	504		99.3	82-121			
Surrogate: 4-Bromofluorobenzene	508		ug/L	501		101	80-116			

Determination of Total Metals	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1IC0483 - EPA 3005A Total Recoverable Metals - EPA 6020A										
Blank (1IC0483-BLK1) Prepared: 03/11/25 15:42 Analyzed: 03/12/25 23:43										
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 (1IC0483-BS1) Prepared: 03/11/25 15:42 Analyzed: 03/12/25 23:50										
Antimony, total	0.0962	0.0020	mg/L	0.100		96.2	80-120			
Arsenic, total	0.0938	0.0040	mg/L	0.100		93.8	80-120			
Barium, total	0.106	0.0040	mg/L	0.100		106	80-120			
Beryllium, total	0.0992	0.0040	mg/L	0.100		99.2	80-120			
Cadmium, total	0.0957	0.0008	mg/L	0.100		95.7	80-120			

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CERTIFICATE OF ANALYSIS

1IC0573

Determination of Total Metals	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1IC0483 - EPA 3005A Total Recoverable Metals - EPA 6020A										
LCS (1IC0483-BS1) Prepared: 03/11/25 15:42 Analyzed: 03/12/25 23:50										
Chromium, total	0.0965	0.0080	mg/L	0.100		96.5	80-120			
Cobalt, total	0.105	0.0004	mg/L	0.100		105	80-120			
Copper, total	0.100	0.0040	mg/L	0.100		100	80-120			
Lead, total	0.0997	0.0040	mg/L	0.100		99.7	80-120			
Nickel, total	0.102	0.0040	mg/L	0.100		102	80-120			
Selenium, total	0.0888	0.0040	mg/L	0.100		88.8	80-120			
Silver, total	0.0990	0.0040	mg/L	0.100		99.0	80-120			
Thallium, total	0.0979	0.0020	mg/L	0.100		97.9	80-120			
Vanadium, total	0.0981	0.0200	mg/L	0.100		98.1	80-120			
Zinc, total	0.0978	0.0200	mg/L	0.100		97.8	80-120			
Matrix Spike (1IC0483-MS1) Source: 1IC0573-01 Prepared: 03/11/25 15:42 Analyzed: 03/13/25 00:02										
Antimony, total	0.0920	0.0020	mg/L	0.100	ND	92.0	75-125			
Arsenic, total	0.0916	0.0040	mg/L	0.100	0.0015	90.1	75-125			
Barium, total	0.310	0.0040	mg/L	0.100	0.216	93.8	75-125			
Beryllium, total	0.0941	0.0040	mg/L	0.100	ND	94.1	75-125			
Cadmium, total	0.0917	0.0008	mg/L	0.100	ND	91.7	75-125			
Chromium, total	0.0928	0.0080	mg/L	0.100	0.0028	90.0	75-125			
Cobalt, total	0.101	0.0004	mg/L	0.100	ND	101	75-125			
Copper, total	0.0952	0.0040	mg/L	0.100	ND	95.2	75-125			
Lead, total	0.0934	0.0040	mg/L	0.100	ND	93.4	75-125			
Nickel, total	0.0992	0.0040	mg/L	0.100	ND	99.2	75-125			
Selenium, total	0.0891	0.0040	mg/L	0.100	ND	89.1	75-125			
Silver, total	0.0932	0.0040	mg/L	0.100	ND	93.2	75-125			
Thallium, total	0.0934	0.0020	mg/L	0.100	ND	93.4	75-125			
Vanadium, total	0.0954	0.0200	mg/L	0.100	ND	95.4	75-125			
Zinc, total	0.0930	0.0200	mg/L	0.100	ND	93.0	75-125			
Matrix Spike Dup (1IC0483-MSD1) Source: 1IC0573-01 Prepared: 03/11/25 15:42 Analyzed: 03/13/25 00:08										
Antimony, total	0.0985	0.0020	mg/L	0.100	ND	98.5	75-125	6.83	20	
Arsenic, total	0.0954	0.0040	mg/L	0.100	0.0015	93.9	75-125	4.06	20	
Barium, total	0.329	0.0040	mg/L	0.100	0.216	113	75-125	6.05	20	
Beryllium, total	0.103	0.0040	mg/L	0.100	ND	103	75-125	8.98	20	
Cadmium, total	0.0953	0.0008	mg/L	0.100	ND	95.3	75-125	3.90	20	
Chromium, total	0.0983	0.0080	mg/L	0.100	0.0028	95.5	75-125	5.79	20	
Cobalt, total	0.106	0.0004	mg/L	0.100	ND	106	75-125	4.61	20	
Copper, total	0.100	0.0040	mg/L	0.100	ND	100	75-125	5.14	20	
Lead, total	0.0973	0.0040	mg/L	0.100	ND	97.3	75-125	4.12	20	
Nickel, total	0.105	0.0040	mg/L	0.100	ND	105	75-125	5.31	20	
Selenium, total	0.0925	0.0040	mg/L	0.100	ND	92.5	75-125	3.73	20	
Silver, total	0.0992	0.0040	mg/L	0.100	ND	99.2	75-125	6.24	20	
Thallium, total	0.0960	0.0020	mg/L	0.100	ND	96.0	75-125	2.73	20	
Vanadium, total	0.102	0.0200	mg/L	0.100	ND	102	75-125	6.38	20	
Zinc, total	0.0998	0.0200	mg/L	0.100	ND	99.8	75-125	7.09	20	
Post Spike (1IC0483-PS1) Source: 1IC0573-01 Prepared: 03/11/25 15:42 Analyzed: 03/13/25 00:14										

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11C0573

Determination of Total Metals	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 11C0483 - EPA 3005A Total Recoverable Metals - EPA 6020A										
Post Spike (11C0483-PS1) Source: 11C0573-01 Prepared: 03/11/25 15:42 Analyzed: 03/13/25 00:14										
Antimony, total	0.0784		mg/L	0.0800	0.0001	97.9	80-120			
Arsenic, total	0.0776		mg/L	0.0800	0.0014	95.2	80-120			
Barium, total	0.296		mg/L	0.0800	0.212	105	80-120			
Beryllium, total	0.0824		mg/L	0.0800	0.00001	103	80-120			
Cadmium, total	0.0752		mg/L	0.0800	0.00007	94.0	80-120			
Chromium, total	0.0807		mg/L	0.0800	0.0028	97.4	80-120			
Cobalt, total	0.0870		mg/L	0.0800	0.0002	109	80-120			
Copper, total	0.0803		mg/L	0.0800	0.0004	99.9	80-120			
Lead, total	0.0789		mg/L	0.0800	0.00008	98.5	80-120			
Nickel, total	0.0844		mg/L	0.0800	0.0007	105	80-120			
Selenium, total	0.0743		mg/L	0.0800	0.0006	92.1	80-120			
Silver, total	0.0810		mg/L	0.0800	0.00007	101	80-120			
Thallium, total	0.0792		mg/L	0.0800	0.00005	98.9	80-120			
Vanadium, total	0.0843		mg/L	0.0800	0.0062	97.7	80-120			
Zinc, total	0.0778		mg/L	0.0800	-0.0021	97.3	80-120			

Definitions

- B1:** The target analyte was detected in the method blank at or above the method acceptance criteria. The sample concentration is below the method acceptance criteria.
- RL:** Reporting Limit
- RPD:** Relative Percent Difference
- S2:** Surrogate recovery is below acceptance limits.

Cooler Receipt Log

Cooler ID: Default Cooler Temp: 0.1°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
Customer Relationship Specialist
heather.murphy@microbac.com
03/28/25 10:14



600 E
Newto
641-79



1 I C 0 5 7 3

HLW Engineering
P/M: Heather Murphy

Page 1 of
Printed: 2/11/2025 10:11:56A

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SITE INFORMATION

Sampler: LGH
Project: Tama County - New Regs
6029

SPECIAL INSTRUCTIONS

None

Turn Around Time

☒ Standard ☐ RUSH, need by ___/___/___

REPORT TO

Todd Whipple
HLW Engineering
204 West Broad St
Story City, IA 50248

INVOICE TO

Dave Sherwood
Tama County Landfill Commission
PO Box 31
Toledo, IA 52342

LAB USE ONLY

Work Order IC0573

Temperature 0.1

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-20(up)	Aqueous	GRAB	3/6/25	10:03	7	Indfill-app1-voc-group Indfill-app1-metals-6020	EE EX-0101
-001	MW-26(up)	Aqueous	GRAB	3/6/25	10:28	7	Indfill-app1-voc-group Indfill-app1-metals-6020	0802
-001	MW-37(up)	Aqueous	GRAB	3/6/25	10:14	7	Indfill-app1-voc-group Indfill-app1-metals-6020	0903
-001	MW-33(up)	Aqueous	GRAB	3/6/25	10:43	7	Indfill-app1-voc-group Indfill-app1-metals-6020	1004
-001	MW-3A	Aqueous	GRAB	3/6/25	12:11	7	Indfill-app1-voc-group Indfill-app1-metals-6020	1105
-001	MW-9	Aqueous	GRAB	3/6/25	10:56	7	Indfill-app1-voc-group Indfill-app1-metals-6020	1206
-001	MW-10	Aqueous	GRAB	3/6/25	11:11	7	Indfill-app1-voc-group Indfill-app1-metals-6020	1307

J. C. Galt 3/7/25
Relinquished By Date/Time

Received By Date/Time

[Signature] 3/1/2025 10:30 AM
Relinquished By Date/Time
Received for Lab By Date/Time

Original - Lab Copy Yellow - Sampler Copy

Remarks:



600
Net
641



1 I C O 5 7 3

HLW Engineering
PM: Heather Murphy

Page 2 of

Printed: 2/11/2025 10:11:56A

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Page 59 of 59

SITE INFORMATION

Sampler: Leit
Project: Tama County - New Regs
6029

REPORT TO

Todd Whipple
HLW Engineering
204 West Broad St
Story City, IA 50248

INVOICE TO

Dave Sherwood
Tama County Landfill Commission
PO Box 31
Toledo, IA 52342

SPECIAL INSTRUCTIONS

None

Turn Around Time

☒ Standard ☐ RUSH, need by ___/___/___

LAB USE ONLY

Work Order 1IC0573

Temperature 0.1

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-11	Aqueous	GRAB	<u>3/6/25</u>	<u>11:17</u>	<u>1</u> ~~###~~	en-6-6020	<u>EE-8501 08</u>
-001	MW-27	Aqueous	GRAB	<u>3/6/25</u>	<u>11:32</u>	<u>7</u> ~~###~~	landfill-app1-voc-group landfill-app1-metals-6020	<u>02 09</u>
-001	MW-34	Aqueous	GRAB	<u>3/6/25</u>	<u>12:00</u>	<u>7</u>	landfill-app1-voc-group landfill-app1-metals-6020	<u>03 10</u>
-001	MW-35	Aqueous	GRAB	<u>3/6/25</u>	<u>12:22</u>	<u>7</u>	8260@chlorodifluoromethane landfill-app1-voc-group landfill-app1-metals-6020	<u>04 11</u>
-001	MW-36	Aqueous	GRAB	<u>3/6/25</u>	<u>12:34</u>	<u>7</u>	landfill-app1-voc-group landfill-app1-metals-6020	<u>05 12</u>
-001	SW-3 <u>NO SAMPLE</u>	Aqueous	GRAB	<u> </u>	<u> </u>	<u> </u>	landfill-app1-voc-group landfill-app1-metals-6020	<u> </u>
-001	Duplicate	Aqueous	GRAB	<u>3/6/25</u>	<u>10:43</u>	<u>1</u>	landfill-app1-metals-6020	<u>06 13</u>

Relinquished By

Date/Time

Relinquished By

Date/Time

Remarks:

Received By

Date/Time

Received for Lab By

Date/Time

Original - Lab Copy Yellow - Sampler Copy



Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

1111548

Project Description

6029

For:

Todd Whipple

HLW Engineering

204 West Broad St

Story City, IA 50248

Heather Murphy

Customer Relationship Specialist

Monday, September 29, 2025

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.

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HLW Engineering

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204 West Broad St
Story City, IA 50248

Project Name: 6029

Project / PO Number: N/A
Received: 09/18/2025
Reported: 09/29/2025

Sample Summary Report

<u>Sample Name</u>	<u>Laboratory ID</u>	<u>Client Matrix</u>	<u>Sample Type</u>	<u>Sample Begin</u>	<u>Sample Taken</u>	<u>Lab Received</u>
MW-20(up)	1111548-01	Aqueous	GRAB		09/17/25 09:34	09/18/25 15:00
MW-26(up)	1111548-02	Aqueous	GRAB		09/17/25 09:58	09/18/25 15:00
MW-37(up)	1111548-03	Aqueous	GRAB		09/17/25 09:44	09/18/25 15:00
MW-33(up)	1111548-04	Aqueous	GRAB		09/17/25 10:12	09/18/25 15:00
MW-3A	1111548-05	Aqueous	GRAB		09/17/25 11:56	09/18/25 15:00
MW-8	1111548-06	Aqueous	GRAB		09/17/25 10:24	09/18/25 15:00
MW-10	1111548-07	Aqueous	GRAB		09/17/25 10:39	09/18/25 15:00
MW-11	1111548-08	Aqueous	GRAB		09/17/25 10:43	09/18/25 15:00
MW-27	1111548-09	Aqueous	GRAB		09/17/25 11:00	09/18/25 15:00
MW-34	1111548-10	Aqueous	GRAB		09/17/25 11:21	09/18/25 15:00
MW-35	1111548-11	Aqueous	GRAB		09/17/25 12:07	09/18/25 15:00
MW-36	1111548-12	Aqueous	GRAB		09/17/25 12:19	09/18/25 15:00
Duplicate	1111548-13	Aqueous	GRAB		09/17/25 00:00	09/18/25 15:00



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CERTIFICATE OF ANALYSIS

111548

Analytical Testing Parameters

Client Sample ID:	MW-20(up)	Collected By:	JGH
Sample Matrix:	Aqueous	Collection Date:	09/17/2025 9:34
Lab Sample ID:	111548-01		

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 8260D							
Chloromethane	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1634	RAF
Vinyl Chloride	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1634	RAF
Bromomethane	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1634	RAF
Chloroethane	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1634	RAF
Trichlorofluoromethane	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1634	RAF
1,1-Dichloroethylene	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1634	RAF
Acetone	<10.0	10.0	ug/L		09/23/25 0000	09/23/25 1634	RAF
Methyl Iodide	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1634	RAF
Carbon Disulfide	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1634	RAF
Methylene Chloride	<5.0	5.0	ug/L		09/23/25 0000	09/23/25 1634	RAF
Acrylonitrile	<5.0	5.0	ug/L		09/23/25 0000	09/23/25 1634	RAF
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1634	RAF
1,1-Dichloroethane	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1634	RAF
Vinyl Acetate	<5.0	5.0	ug/L		09/23/25 0000	09/23/25 1634	RAF
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1634	RAF
2-Butanone (MEK)	<10.0	10.0	ug/L		09/23/25 0000	09/23/25 1634	RAF
Bromochloromethane	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1634	RAF
Chloroform	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1634	RAF
1,1,1-Trichloroethane	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1634	RAF
Carbon Tetrachloride	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1634	RAF
Benzene	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1634	RAF
1,2-Dichloroethane	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1634	RAF
Trichloroethylene	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1634	RAF
1,2-Dichloropropane	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1634	RAF
Dibromomethane	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1634	RAF
Bromodichloromethane	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1634	RAF
cis-1,3-Dichloropropene	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1634	RAF
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L		09/23/25 0000	09/23/25 1634	RAF
Toluene	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1634	RAF
trans-1,3-Dichloropropene	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1634	RAF
1,1,2-Trichloroethane	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1634	RAF
Tetrachloroethylene	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1634	RAF
2-Hexanone (MBK)	<5.0	5.0	ug/L		09/23/25 0000	09/23/25 1634	RAF
Dibromochloromethane	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1634	RAF
1,2-Dibromoethane	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1634	RAF
Chlorobenzene	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1634	RAF
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1634	RAF
Ethylbenzene	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1634	RAF
Xylenes, total	<2.0	2.0	ug/L		09/23/25 0000	09/23/25 1634	RAF
Styrene	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1634	RAF

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CERTIFICATE OF ANALYSIS

1111548

Client Sample ID: MW-20(up)
Sample Matrix: Aqueous
Lab Sample ID: 1111548-01

Collected By: JGH
Collection Date: 09/17/2025 9:34

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
Bromoform	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1634	RAF
1,2,3-Trichloropropane	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1634	RAF
trans-1,4-Dichloro-2-butene	<5.0	5.0	ug/L		09/23/25 0000	09/23/25 1634	RAF
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1634	RAF
1,4-Dichlorobenzene	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1634	RAF
1,2-Dichlorobenzene	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1634	RAF
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L		09/23/25 0000	09/23/25 1634	RAF
Surrogate: Dibromofluoromethane	97.2	Limit: 75-136	% Rec		09/23/25 0000	09/23/25 1634	RAF
Surrogate: Dibromofluoromethane	97.2	Limit: 57-128	% Rec		09/23/25 0000	09/23/25 1634	RAF
Surrogate: 1,2-Dichloroethane-d4	94.7	Limit: 49-135	% Rec		09/23/25 0000	09/23/25 1634	RAF
Surrogate: 1,2-Dichloroethane-d4	94.7	Limit: 61-142	% Rec		09/23/25 0000	09/23/25 1634	RAF
Surrogate: Toluene-d8	100	Limit: 82-121	% Rec		09/23/25 0000	09/23/25 1634	RAF
Surrogate: Toluene-d8	100	Limit: 82-116	% Rec		09/23/25 0000	09/23/25 1634	RAF
Surrogate: 4-Bromofluorobenzene	93.6	Limit: 77-114	% Rec		09/23/25 0000	09/23/25 1634	RAF
Surrogate: 4-Bromofluorobenzene	93.6	Limit: 80-116	% Rec		09/23/25 0000	09/23/25 1634	RAF

Determination of Total Metals	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A							
Antimony, total	<0.0010	0.0010	mg/L		09/19/25 0724	09/20/25 0301	JAR
Arsenic, total	<0.0020	0.0020	mg/L		09/19/25 0724	09/20/25 0301	JAR
Barium, total	0.178	0.0010	mg/L		09/19/25 0724	09/20/25 0301	JAR
Beryllium, total	<0.0005	0.0005	mg/L		09/19/25 0724	09/20/25 0301	JAR
Cadmium, total	<0.0002	0.0002	mg/L		09/19/25 0724	09/20/25 0301	JAR
Chromium, total	0.0049	0.0010	mg/L		09/19/25 0724	09/20/25 0301	JAR
Cobalt, total	<0.0005	0.0005	mg/L		09/19/25 0724	09/20/25 0301	JAR
Copper, total	<0.0050	0.0050	mg/L		09/19/25 0724	09/20/25 0301	JAR
Lead, total	<0.0010	0.0010	mg/L		09/19/25 0724	09/20/25 0301	JAR
Nickel, total	<0.0050	0.0050	mg/L		09/19/25 0724	09/20/25 0301	JAR
Selenium, total	<0.0020	0.0020	mg/L		09/19/25 0724	09/20/25 0301	JAR
Silver, total	<0.0050	0.0050	mg/L		09/19/25 0724	09/20/25 0301	JAR
Thallium, total	<0.0005	0.0005	mg/L		09/19/25 0724	09/20/25 0301	JAR
Vanadium, total	<0.0020	0.0020	mg/L		09/19/25 0724	09/20/25 0301	JAR
Zinc, total	<0.0050	0.0050	mg/L		09/19/25 0724	09/20/25 0301	JAR

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CERTIFICATE OF ANALYSIS

111548

Client Sample ID: MW-26(up)
Sample Matrix: Aqueous
Lab Sample ID: 111548-02

Collected By: JGH
Collection Date: 09/17/2025 9:58

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 8260D							
Chloromethane	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1657	RAF
Vinyl Chloride	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1657	RAF
Bromomethane	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1657	RAF
Chloroethane	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1657	RAF
Trichlorofluoromethane	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1657	RAF
1,1-Dichloroethylene	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1657	RAF
Acetone	<10.0	10.0	ug/L		09/23/25 0000	09/23/25 1657	RAF
Methyl Iodide	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1657	RAF
Carbon Disulfide	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1657	RAF
Methylene Chloride	<5.0	5.0	ug/L		09/23/25 0000	09/23/25 1657	RAF
Acrylonitrile	<5.0	5.0	ug/L		09/23/25 0000	09/23/25 1657	RAF
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1657	RAF
1,1-Dichloroethane	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1657	RAF
Vinyl Acetate	<5.0	5.0	ug/L		09/23/25 0000	09/23/25 1657	RAF
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1657	RAF
2-Butanone (MEK)	<10.0	10.0	ug/L		09/23/25 0000	09/23/25 1657	RAF
Bromochloromethane	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1657	RAF
Chloroform	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1657	RAF
1,1,1-Trichloroethane	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1657	RAF
Carbon Tetrachloride	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1657	RAF
Benzene	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1657	RAF
1,2-Dichloroethane	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1657	RAF
Trichloroethylene	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1657	RAF
1,2-Dichloropropane	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1657	RAF
Dibromomethane	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1657	RAF
Bromodichloromethane	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1657	RAF
cis-1,3-Dichloropropene	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1657	RAF
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L		09/23/25 0000	09/23/25 1657	RAF
Toluene	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1657	RAF
trans-1,3-Dichloropropene	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1657	RAF
1,1,2-Trichloroethane	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1657	RAF
Tetrachloroethylene	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1657	RAF
2-Hexanone (MBK)	<5.0	5.0	ug/L		09/23/25 0000	09/23/25 1657	RAF
Dibromochloromethane	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1657	RAF
1,2-Dibromoethane	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1657	RAF
Chlorobenzene	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1657	RAF
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1657	RAF
Ethylbenzene	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1657	RAF
Xylenes, total	<2.0	2.0	ug/L		09/23/25 0000	09/23/25 1657	RAF
Styrene	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1657	RAF
Bromoform	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1657	RAF
1,2,3-Trichloropropane	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1657	RAF

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CERTIFICATE OF ANALYSIS

111548

Client Sample ID: MW-26(up)
Sample Matrix: Aqueous
Lab Sample ID: 111548-02

Collected By: JGH
Collection Date: 09/17/2025 9:58

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
trans-1,4-Dichloro-2-butene	<5.0	5.0	ug/L		09/23/25 0000	09/23/25 1657	RAF
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1657	RAF
1,4-Dichlorobenzene	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1657	RAF
1,2-Dichlorobenzene	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1657	RAF
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L		09/23/25 0000	09/23/25 1657	RAF
Surrogate: Dibromofluoromethane	93.8	Limit: 75-136	% Rec		09/23/25 0000	09/23/25 1657	RAF
Surrogate: Dibromofluoromethane	93.8	Limit: 57-128	% Rec		09/23/25 0000	09/23/25 1657	RAF
Surrogate: 1,2-Dichloroethane-d4	95.4	Limit: 61-142	% Rec		09/23/25 0000	09/23/25 1657	RAF
Surrogate: 1,2-Dichloroethane-d4	95.4	Limit: 49-135	% Rec		09/23/25 0000	09/23/25 1657	RAF
Surrogate: Toluene-d8	103	Limit: 82-116	% Rec		09/23/25 0000	09/23/25 1657	RAF
Surrogate: Toluene-d8	103	Limit: 82-121	% Rec		09/23/25 0000	09/23/25 1657	RAF
Surrogate: 4-Bromofluorobenzene	94.8	Limit: 80-116	% Rec		09/23/25 0000	09/23/25 1657	RAF
Surrogate: 4-Bromofluorobenzene	94.8	Limit: 77-114	% Rec		09/23/25 0000	09/23/25 1657	RAF

Determination of Total Metals	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A							
Antimony, total	<0.0010	0.0010	mg/L		09/19/25 0724	09/20/25 0303	JAR
Arsenic, total	<0.0020	0.0020	mg/L		09/19/25 0724	09/20/25 0303	JAR
Barium, total	0.263	0.0010	mg/L		09/19/25 0724	09/20/25 0303	JAR
Beryllium, total	<0.0005	0.0005	mg/L		09/19/25 0724	09/20/25 0303	JAR
Cadmium, total	<0.0002	0.0002	mg/L		09/19/25 0724	09/20/25 0303	JAR
Chromium, total	0.0010	0.0010	mg/L		09/19/25 0724	09/20/25 0303	JAR
Cobalt, total	<0.0005	0.0005	mg/L		09/19/25 0724	09/20/25 0303	JAR
Copper, total	<0.0050	0.0050	mg/L		09/19/25 0724	09/20/25 0303	JAR
Lead, total	<0.0010	0.0010	mg/L		09/19/25 0724	09/20/25 0303	JAR
Nickel, total	<0.0050	0.0050	mg/L		09/19/25 0724	09/20/25 0303	JAR
Selenium, total	<0.0020	0.0020	mg/L		09/19/25 0724	09/20/25 0303	JAR
Silver, total	<0.0050	0.0050	mg/L		09/19/25 0724	09/20/25 0303	JAR
Thallium, total	<0.0005	0.0005	mg/L		09/19/25 0724	09/20/25 0303	JAR
Vanadium, total	<0.0020	0.0020	mg/L		09/19/25 0724	09/20/25 0303	JAR
Zinc, total	0.0072	0.0050	mg/L		09/19/25 0724	09/20/25 0303	JAR

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CERTIFICATE OF ANALYSIS

111548

Client Sample ID: MW-37(up)
Sample Matrix: Aqueous
Lab Sample ID: 111548-03

Collected By: JGH
Collection Date: 09/17/2025 9:44

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 8260D							
Chloromethane	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1720	RAF
Vinyl Chloride	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1720	RAF
Bromomethane	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1720	RAF
Chloroethane	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1720	RAF
Trichlorofluoromethane	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1720	RAF
1,1-Dichloroethylene	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1720	RAF
Acetone	<10.0	10.0	ug/L		09/23/25 0000	09/23/25 1720	RAF
Methyl Iodide	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1720	RAF
Carbon Disulfide	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1720	RAF
Methylene Chloride	<5.0	5.0	ug/L		09/23/25 0000	09/23/25 1720	RAF
Acrylonitrile	<5.0	5.0	ug/L		09/23/25 0000	09/23/25 1720	RAF
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1720	RAF
1,1-Dichloroethane	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1720	RAF
Vinyl Acetate	<5.0	5.0	ug/L		09/23/25 0000	09/23/25 1720	RAF
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1720	RAF
2-Butanone (MEK)	<10.0	10.0	ug/L		09/23/25 0000	09/23/25 1720	RAF
Bromochloromethane	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1720	RAF
Chloroform	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1720	RAF
1,1,1-Trichloroethane	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1720	RAF
Carbon Tetrachloride	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1720	RAF
Benzene	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1720	RAF
1,2-Dichloroethane	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1720	RAF
Trichloroethylene	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1720	RAF
1,2-Dichloropropane	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1720	RAF
Dibromomethane	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1720	RAF
Bromodichloromethane	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1720	RAF
cis-1,3-Dichloropropene	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1720	RAF
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L		09/23/25 0000	09/23/25 1720	RAF
Toluene	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1720	RAF
trans-1,3-Dichloropropene	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1720	RAF
1,1,2-Trichloroethane	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1720	RAF
Tetrachloroethylene	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1720	RAF
2-Hexanone (MBK)	<5.0	5.0	ug/L		09/23/25 0000	09/23/25 1720	RAF
Dibromochloromethane	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1720	RAF
1,2-Dibromoethane	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1720	RAF
Chlorobenzene	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1720	RAF
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1720	RAF
Ethylbenzene	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1720	RAF
Xylenes, total	<2.0	2.0	ug/L		09/23/25 0000	09/23/25 1720	RAF
Styrene	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1720	RAF
Bromoform	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1720	RAF
1,2,3-Trichloropropane	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1720	RAF

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CERTIFICATE OF ANALYSIS

111548

Client Sample ID: MW-37(up)
Sample Matrix: Aqueous
Lab Sample ID: 111548-03

Collected By: JGH
Collection Date: 09/17/2025 9:44

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
trans-1,4-Dichloro-2-butene	<5.0	5.0	ug/L		09/23/25 0000	09/23/25 1720	RAF
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1720	RAF
1,4-Dichlorobenzene	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1720	RAF
1,2-Dichlorobenzene	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1720	RAF
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L		09/23/25 0000	09/23/25 1720	RAF
Surrogate: Dibromofluoromethane	92.7	Limit: 57-128	% Rec		09/23/25 0000	09/23/25 1720	RAF
Surrogate: Dibromofluoromethane	92.7	Limit: 75-136	% Rec		09/23/25 0000	09/23/25 1720	RAF
Surrogate: 1,2-Dichloroethane-d4	91.9	Limit: 49-135	% Rec		09/23/25 0000	09/23/25 1720	RAF
Surrogate: 1,2-Dichloroethane-d4	91.9	Limit: 61-142	% Rec		09/23/25 0000	09/23/25 1720	RAF
Surrogate: Toluene-d8	101	Limit: 82-121	% Rec		09/23/25 0000	09/23/25 1720	RAF
Surrogate: Toluene-d8	101	Limit: 82-116	% Rec		09/23/25 0000	09/23/25 1720	RAF
Surrogate: 4-Bromofluorobenzene	92.2	Limit: 77-114	% Rec		09/23/25 0000	09/23/25 1720	RAF
Surrogate: 4-Bromofluorobenzene	92.2	Limit: 80-116	% Rec		09/23/25 0000	09/23/25 1720	RAF

Determination of Total Metals	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A							
Antimony, total	<0.0010	0.0010	mg/L		09/19/25 0724	09/20/25 0306	JAR
Arsenic, total	<0.0020	0.0020	mg/L		09/19/25 0724	09/20/25 0306	JAR
Barium, total	0.0332	0.0010	mg/L		09/19/25 0724	09/20/25 0306	JAR
Beryllium, total	<0.0005	0.0005	mg/L		09/19/25 0724	09/20/25 0306	JAR
Cadmium, total	<0.0002	0.0002	mg/L		09/19/25 0724	09/20/25 0306	JAR
Chromium, total	0.0027	0.0010	mg/L		09/19/25 0724	09/20/25 0306	JAR
Cobalt, total	<0.0005	0.0005	mg/L		09/19/25 0724	09/20/25 0306	JAR
Copper, total	<0.0050	0.0050	mg/L		09/19/25 0724	09/20/25 0306	JAR
Lead, total	<0.0010	0.0010	mg/L		09/19/25 0724	09/20/25 0306	JAR
Nickel, total	<0.0050	0.0050	mg/L		09/19/25 0724	09/20/25 0306	JAR
Selenium, total	0.0108	0.0020	mg/L		09/19/25 0724	09/20/25 0306	JAR
Silver, total	<0.0050	0.0050	mg/L		09/19/25 0724	09/20/25 0306	JAR
Thallium, total	<0.0005	0.0005	mg/L		09/19/25 0724	09/20/25 0306	JAR
Vanadium, total	<0.0020	0.0020	mg/L		09/19/25 0724	09/20/25 0306	JAR
Zinc, total	<0.0050	0.0050	mg/L		09/19/25 0724	09/20/25 0306	JAR

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CERTIFICATE OF ANALYSIS

111548

Client Sample ID: MW-33(up)
Sample Matrix: Aqueous
Lab Sample ID: 111548-04

Collected By: JGH
Collection Date: 09/17/2025 10:12

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 8260D							
Chloromethane	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1743	RAF
Vinyl Chloride	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1743	RAF
Bromomethane	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1743	RAF
Chloroethane	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1743	RAF
Trichlorofluoromethane	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1743	RAF
1,1-Dichloroethylene	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1743	RAF
Acetone	<10.0	10.0	ug/L		09/23/25 0000	09/23/25 1743	RAF
Methyl Iodide	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1743	RAF
Carbon Disulfide	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1743	RAF
Methylene Chloride	<5.0	5.0	ug/L		09/23/25 0000	09/23/25 1743	RAF
Acrylonitrile	<5.0	5.0	ug/L		09/23/25 0000	09/23/25 1743	RAF
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1743	RAF
1,1-Dichloroethane	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1743	RAF
Vinyl Acetate	<5.0	5.0	ug/L		09/23/25 0000	09/23/25 1743	RAF
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1743	RAF
2-Butanone (MEK)	<10.0	10.0	ug/L		09/23/25 0000	09/23/25 1743	RAF
Bromochloromethane	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1743	RAF
Chloroform	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1743	RAF
1,1,1-Trichloroethane	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1743	RAF
Carbon Tetrachloride	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1743	RAF
Benzene	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1743	RAF
1,2-Dichloroethane	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1743	RAF
Trichloroethylene	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1743	RAF
1,2-Dichloropropane	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1743	RAF
Dibromomethane	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1743	RAF
Bromodichloromethane	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1743	RAF
cis-1,3-Dichloropropene	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1743	RAF
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L		09/23/25 0000	09/23/25 1743	RAF
Toluene	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1743	RAF
trans-1,3-Dichloropropene	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1743	RAF
1,1,2-Trichloroethane	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1743	RAF
Tetrachloroethylene	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1743	RAF
2-Hexanone (MBK)	<5.0	5.0	ug/L		09/23/25 0000	09/23/25 1743	RAF
Dibromochloromethane	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1743	RAF
1,2-Dibromoethane	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1743	RAF
Chlorobenzene	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1743	RAF
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1743	RAF
Ethylbenzene	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1743	RAF
Xylenes, total	<2.0	2.0	ug/L		09/23/25 0000	09/23/25 1743	RAF
Styrene	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1743	RAF
Bromoform	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1743	RAF
1,2,3-Trichloropropane	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1743	RAF

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CERTIFICATE OF ANALYSIS

111548

Client Sample ID: MW-33(up)
Sample Matrix: Aqueous
Lab Sample ID: 111548-04

Collected By: JGH
Collection Date: 09/17/2025 10:12

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
trans-1,4-Dichloro-2-butene	<5.0	5.0	ug/L		09/23/25 0000	09/23/25 1743	RAF
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1743	RAF
1,4-Dichlorobenzene	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1743	RAF
1,2-Dichlorobenzene	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1743	RAF
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L		09/23/25 0000	09/23/25 1743	RAF
Surrogate: Dibromofluoromethane	91.8	Limit: 57-128	% Rec		09/23/25 0000	09/23/25 1743	RAF
Surrogate: Dibromofluoromethane	91.8	Limit: 75-136	% Rec		09/23/25 0000	09/23/25 1743	RAF
Surrogate: 1,2-Dichloroethane-d4	92.2	Limit: 61-142	% Rec		09/23/25 0000	09/23/25 1743	RAF
Surrogate: 1,2-Dichloroethane-d4	92.2	Limit: 49-135	% Rec		09/23/25 0000	09/23/25 1743	RAF
Surrogate: Toluene-d8	104	Limit: 82-116	% Rec		09/23/25 0000	09/23/25 1743	RAF
Surrogate: Toluene-d8	104	Limit: 82-121	% Rec		09/23/25 0000	09/23/25 1743	RAF
Surrogate: 4-Bromofluorobenzene	92.7	Limit: 80-116	% Rec		09/23/25 0000	09/23/25 1743	RAF
Surrogate: 4-Bromofluorobenzene	92.7	Limit: 77-114	% Rec		09/23/25 0000	09/23/25 1743	RAF

Determination of Total Metals	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A							
Antimony, total	<0.0010	0.0010	mg/L		09/19/25 0724	09/20/25 0308	JAR
Arsenic, total	<0.0020	0.0020	mg/L		09/19/25 0724	09/20/25 0308	JAR
Barium, total	0.170	0.0010	mg/L		09/19/25 0724	09/20/25 0308	JAR
Beryllium, total	<0.0005	0.0005	mg/L		09/19/25 0724	09/20/25 0308	JAR
Cadmium, total	<0.0002	0.0002	mg/L		09/19/25 0724	09/20/25 0308	JAR
Chromium, total	<0.0010	0.0010	mg/L		09/19/25 0724	09/20/25 0308	JAR
Cobalt, total	<0.0005	0.0005	mg/L		09/19/25 0724	09/20/25 0308	JAR
Copper, total	<0.0050	0.0050	mg/L		09/19/25 0724	09/20/25 0308	JAR
Lead, total	<0.0010	0.0010	mg/L		09/19/25 0724	09/20/25 0308	JAR
Nickel, total	<0.0050	0.0050	mg/L		09/19/25 0724	09/20/25 0308	JAR
Selenium, total	<0.0020	0.0020	mg/L		09/19/25 0724	09/20/25 0308	JAR
Silver, total	<0.0050	0.0050	mg/L		09/19/25 0724	09/20/25 0308	JAR
Thallium, total	<0.0005	0.0005	mg/L		09/19/25 0724	09/20/25 0308	JAR
Vanadium, total	<0.0020	0.0020	mg/L		09/19/25 0724	09/20/25 0308	JAR
Zinc, total	<0.0050	0.0050	mg/L		09/19/25 0724	09/20/25 0308	JAR

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CERTIFICATE OF ANALYSIS

111548

Client Sample ID: MW-3A
Sample Matrix: Aqueous
Lab Sample ID: 111548-05

Collected By: JGH
Collection Date: 09/17/2025 11:56

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 8260D							
Chloromethane	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1806	RAF
Vinyl Chloride	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1806	RAF
Bromomethane	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1806	RAF
Chloroethane	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1806	RAF
Trichlorofluoromethane	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1806	RAF
1,1-Dichloroethylene	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1806	RAF
Acetone	<10.0	10.0	ug/L		09/23/25 0000	09/23/25 1806	RAF
Methyl Iodide	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1806	RAF
Carbon Disulfide	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1806	RAF
Methylene Chloride	<5.0	5.0	ug/L		09/23/25 0000	09/23/25 1806	RAF
Acrylonitrile	<5.0	5.0	ug/L		09/23/25 0000	09/23/25 1806	RAF
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1806	RAF
1,1-Dichloroethane	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1806	RAF
Vinyl Acetate	<5.0	5.0	ug/L		09/23/25 0000	09/23/25 1806	RAF
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1806	RAF
2-Butanone (MEK)	<10.0	10.0	ug/L		09/23/25 0000	09/23/25 1806	RAF
Bromochloromethane	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1806	RAF
Chloroform	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1806	RAF
1,1,1-Trichloroethane	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1806	RAF
Carbon Tetrachloride	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1806	RAF
Benzene	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1806	RAF
1,2-Dichloroethane	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1806	RAF
Trichloroethylene	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1806	RAF
1,2-Dichloropropane	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1806	RAF
Dibromomethane	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1806	RAF
Bromodichloromethane	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1806	RAF
cis-1,3-Dichloropropene	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1806	RAF
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L		09/23/25 0000	09/23/25 1806	RAF
Toluene	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1806	RAF
trans-1,3-Dichloropropene	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1806	RAF
1,1,2-Trichloroethane	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1806	RAF
Tetrachloroethylene	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1806	RAF
2-Hexanone (MBK)	<5.0	5.0	ug/L		09/23/25 0000	09/23/25 1806	RAF
Dibromochloromethane	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1806	RAF
1,2-Dibromoethane	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1806	RAF
Chlorobenzene	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1806	RAF
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1806	RAF
Ethylbenzene	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1806	RAF
Xylenes, total	<2.0	2.0	ug/L		09/23/25 0000	09/23/25 1806	RAF
Styrene	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1806	RAF
Bromoform	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1806	RAF
1,2,3-Trichloropropane	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1806	RAF

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CERTIFICATE OF ANALYSIS

111548

Client Sample ID: MW-3A
Sample Matrix: Aqueous
Lab Sample ID: 111548-05

Collected By: JGH
Collection Date: 09/17/2025 11:56

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
trans-1,4-Dichloro-2-butene	<5.0	5.0	ug/L		09/23/25 0000	09/23/25 1806	RAF
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1806	RAF
1,4-Dichlorobenzene	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1806	RAF
1,2-Dichlorobenzene	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1806	RAF
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L		09/23/25 0000	09/23/25 1806	RAF
Surrogate: Dibromofluoromethane	88.9	Limit: 57-128	% Rec		09/23/25 0000	09/23/25 1806	RAF
Surrogate: Dibromofluoromethane	88.9	Limit: 75-136	% Rec		09/23/25 0000	09/23/25 1806	RAF
Surrogate: 1,2-Dichloroethane-d4	90.0	Limit: 61-142	% Rec		09/23/25 0000	09/23/25 1806	RAF
Surrogate: 1,2-Dichloroethane-d4	90.0	Limit: 49-135	% Rec		09/23/25 0000	09/23/25 1806	RAF
Surrogate: Toluene-d8	103	Limit: 82-116	% Rec		09/23/25 0000	09/23/25 1806	RAF
Surrogate: Toluene-d8	103	Limit: 82-121	% Rec		09/23/25 0000	09/23/25 1806	RAF
Surrogate: 4-Bromofluorobenzene	92.8	Limit: 77-114	% Rec		09/23/25 0000	09/23/25 1806	RAF
Surrogate: 4-Bromofluorobenzene	92.8	Limit: 80-116	% Rec		09/23/25 0000	09/23/25 1806	RAF

Determination of Total Metals	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A							
Antimony, total	<0.0010	0.0010	mg/L		09/19/25 0724	09/20/25 0311	JAR
Arsenic, total	0.0069	0.0020	mg/L		09/19/25 0724	09/20/25 0311	JAR
Barium, total	0.188	0.0010	mg/L		09/19/25 0724	09/20/25 0311	JAR
Beryllium, total	<0.0005	0.0005	mg/L		09/19/25 0724	09/20/25 0311	JAR
Cadmium, total	<0.0002	0.0002	mg/L		09/19/25 0724	09/20/25 0311	JAR
Chromium, total	<0.0010	0.0010	mg/L		09/19/25 0724	09/20/25 0311	JAR
Cobalt, total	0.0020	0.0005	mg/L		09/19/25 0724	09/20/25 0311	JAR
Copper, total	<0.0050	0.0050	mg/L		09/19/25 0724	09/20/25 0311	JAR
Lead, total	<0.0010	0.0010	mg/L		09/19/25 0724	09/20/25 0311	JAR
Nickel, total	0.0051	0.0050	mg/L		09/19/25 0724	09/20/25 0311	JAR
Selenium, total	<0.0020	0.0020	mg/L		09/19/25 0724	09/20/25 0311	JAR
Silver, total	<0.0050	0.0050	mg/L		09/19/25 0724	09/20/25 0311	JAR
Thallium, total	<0.0005	0.0005	mg/L		09/19/25 0724	09/20/25 0311	JAR
Vanadium, total	<0.0020	0.0020	mg/L		09/19/25 0724	09/20/25 0311	JAR
Zinc, total	<0.0050	0.0050	mg/L		09/19/25 0724	09/20/25 0311	JAR

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CERTIFICATE OF ANALYSIS

111548

Client Sample ID: MW-8
Sample Matrix: Aqueous
Lab Sample ID: 111548-06

Collected By: JGH
Collection Date: 09/17/2025 10:24

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 8260D							
Chloromethane	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1829	RAF
Vinyl Chloride	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1829	RAF
Bromomethane	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1829	RAF
Chloroethane	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1829	RAF
Trichlorofluoromethane	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1829	RAF
1,1-Dichloroethylene	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1829	RAF
Acetone	<10.0	10.0	ug/L		09/23/25 0000	09/23/25 1829	RAF
Methyl Iodide	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1829	RAF
Carbon Disulfide	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1829	RAF
Methylene Chloride	<5.0	5.0	ug/L		09/23/25 0000	09/23/25 1829	RAF
Acrylonitrile	<5.0	5.0	ug/L		09/23/25 0000	09/23/25 1829	RAF
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1829	RAF
1,1-Dichloroethane	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1829	RAF
Vinyl Acetate	<5.0	5.0	ug/L		09/23/25 0000	09/23/25 1829	RAF
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1829	RAF
2-Butanone (MEK)	<10.0	10.0	ug/L		09/23/25 0000	09/23/25 1829	RAF
Bromochloromethane	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1829	RAF
Chloroform	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1829	RAF
1,1,1-Trichloroethane	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1829	RAF
Carbon Tetrachloride	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1829	RAF
Benzene	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1829	RAF
1,2-Dichloroethane	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1829	RAF
Trichloroethylene	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1829	RAF
1,2-Dichloropropane	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1829	RAF
Dibromomethane	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1829	RAF
Bromodichloromethane	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1829	RAF
cis-1,3-Dichloropropene	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1829	RAF
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L		09/23/25 0000	09/23/25 1829	RAF
Toluene	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1829	RAF
trans-1,3-Dichloropropene	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1829	RAF
1,1,2-Trichloroethane	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1829	RAF
Tetrachloroethylene	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1829	RAF
2-Hexanone (MBK)	<5.0	5.0	ug/L		09/23/25 0000	09/23/25 1829	RAF
Dibromochloromethane	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1829	RAF
1,2-Dibromoethane	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1829	RAF
Chlorobenzene	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1829	RAF
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1829	RAF
Ethylbenzene	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1829	RAF
Xylenes, total	<2.0	2.0	ug/L		09/23/25 0000	09/23/25 1829	RAF
Styrene	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1829	RAF
Bromoform	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1829	RAF
1,2,3-Trichloropropane	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1829	RAF

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CERTIFICATE OF ANALYSIS

111548

Client Sample ID: MW-8
Sample Matrix: Aqueous
Lab Sample ID: 111548-06

Collected By: JGH
Collection Date: 09/17/2025 10:24

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
trans-1,4-Dichloro-2-butene	<5.0	5.0	ug/L		09/23/25 0000	09/23/25 1829	RAF
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1829	RAF
1,4-Dichlorobenzene	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1829	RAF
1,2-Dichlorobenzene	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1829	RAF
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L		09/23/25 0000	09/23/25 1829	RAF
Surrogate: Dibromofluoromethane	92.3	Limit: 75-136	% Rec		09/23/25 0000	09/23/25 1829	RAF
Surrogate: Dibromofluoromethane	92.3	Limit: 57-128	% Rec		09/23/25 0000	09/23/25 1829	RAF
Surrogate: 1,2-Dichloroethane-d4	91.3	Limit: 61-142	% Rec		09/23/25 0000	09/23/25 1829	RAF
Surrogate: 1,2-Dichloroethane-d4	91.3	Limit: 49-135	% Rec		09/23/25 0000	09/23/25 1829	RAF
Surrogate: Toluene-d8	98.5	Limit: 82-121	% Rec		09/23/25 0000	09/23/25 1829	RAF
Surrogate: Toluene-d8	98.5	Limit: 82-116	% Rec		09/23/25 0000	09/23/25 1829	RAF
Surrogate: 4-Bromofluorobenzene	95.3	Limit: 80-116	% Rec		09/23/25 0000	09/23/25 1829	RAF
Surrogate: 4-Bromofluorobenzene	95.3	Limit: 77-114	% Rec		09/23/25 0000	09/23/25 1829	RAF

Determination of Total Metals	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A							
Antimony, total	<0.0010	0.0010	mg/L		09/19/25 0724	09/20/25 0313	JAR
Arsenic, total	<0.0020	0.0020	mg/L		09/19/25 0724	09/20/25 0313	JAR
Barium, total	0.305	0.0010	mg/L		09/19/25 0724	09/20/25 0313	JAR
Beryllium, total	<0.0005	0.0005	mg/L		09/19/25 0724	09/20/25 0313	JAR
Cadmium, total	0.0007	0.0002	mg/L		09/19/25 0724	09/20/25 0313	JAR
Chromium, total	0.0020	0.0010	mg/L		09/19/25 0724	09/20/25 0313	JAR
Cobalt, total	0.0013	0.0005	mg/L		09/19/25 0724	09/20/25 0313	JAR
Copper, total	<0.0050	0.0050	mg/L		09/19/25 0724	09/20/25 0313	JAR
Lead, total	<0.0010	0.0010	mg/L		09/19/25 0724	09/20/25 0313	JAR
Nickel, total	0.0098	0.0050	mg/L		09/19/25 0724	09/20/25 0313	JAR
Selenium, total	<0.0020	0.0020	mg/L		09/19/25 0724	09/20/25 0313	JAR
Silver, total	<0.0050	0.0050	mg/L		09/19/25 0724	09/20/25 0313	JAR
Thallium, total	<0.0005	0.0005	mg/L		09/19/25 0724	09/20/25 0313	JAR
Vanadium, total	<0.0020	0.0020	mg/L		09/19/25 0724	09/20/25 0313	JAR
Zinc, total	0.0067	0.0050	mg/L		09/19/25 0724	09/20/25 0313	JAR

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CERTIFICATE OF ANALYSIS

111548

Client Sample ID: MW-10
Sample Matrix: Aqueous
Lab Sample ID: 111548-07

Collected By: JGH
Collection Date: 09/17/2025 10:39

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 8260D							
Chloromethane	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1851	RAF
Vinyl Chloride	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1851	RAF
Bromomethane	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1851	RAF
Chloroethane	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1851	RAF
Trichlorofluoromethane	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1851	RAF
1,1-Dichloroethylene	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1851	RAF
Acetone	<10.0	10.0	ug/L		09/23/25 0000	09/23/25 1851	RAF
Methyl Iodide	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1851	RAF
Carbon Disulfide	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1851	RAF
Methylene Chloride	<5.0	5.0	ug/L		09/23/25 0000	09/23/25 1851	RAF
Acrylonitrile	<5.0	5.0	ug/L		09/23/25 0000	09/23/25 1851	RAF
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1851	RAF
1,1-Dichloroethane	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1851	RAF
Vinyl Acetate	<5.0	5.0	ug/L		09/23/25 0000	09/23/25 1851	RAF
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1851	RAF
2-Butanone (MEK)	<10.0	10.0	ug/L		09/23/25 0000	09/23/25 1851	RAF
Bromochloromethane	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1851	RAF
Chloroform	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1851	RAF
1,1,1-Trichloroethane	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1851	RAF
Carbon Tetrachloride	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1851	RAF
Benzene	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1851	RAF
1,2-Dichloroethane	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1851	RAF
Trichloroethylene	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1851	RAF
1,2-Dichloropropane	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1851	RAF
Dibromomethane	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1851	RAF
Bromodichloromethane	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1851	RAF
cis-1,3-Dichloropropene	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1851	RAF
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L		09/23/25 0000	09/23/25 1851	RAF
Toluene	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1851	RAF
trans-1,3-Dichloropropene	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1851	RAF
1,1,2-Trichloroethane	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1851	RAF
Tetrachloroethylene	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1851	RAF
2-Hexanone (MBK)	<5.0	5.0	ug/L		09/23/25 0000	09/23/25 1851	RAF
Dibromochloromethane	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1851	RAF
1,2-Dibromoethane	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1851	RAF
Chlorobenzene	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1851	RAF
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1851	RAF
Ethylbenzene	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1851	RAF
Xylenes, total	<2.0	2.0	ug/L		09/23/25 0000	09/23/25 1851	RAF
Styrene	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1851	RAF
Bromoform	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1851	RAF
1,2,3-Trichloropropane	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1851	RAF

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CERTIFICATE OF ANALYSIS

111548

Client Sample ID: MW-10
Sample Matrix: Aqueous
Lab Sample ID: 111548-07

Collected By: JGH
Collection Date: 09/17/2025 10:39

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
trans-1,4-Dichloro-2-butene	<5.0	5.0	ug/L		09/23/25 0000	09/23/25 1851	RAF
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1851	RAF
1,4-Dichlorobenzene	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1851	RAF
1,2-Dichlorobenzene	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1851	RAF
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L		09/23/25 0000	09/23/25 1851	RAF
Surrogate: Dibromofluoromethane	93.8	Limit: 75-136	% Rec		09/23/25 0000	09/23/25 1851	RAF
Surrogate: Dibromofluoromethane	93.8	Limit: 57-128	% Rec		09/23/25 0000	09/23/25 1851	RAF
Surrogate: 1,2-Dichloroethane-d4	96.5	Limit: 61-142	% Rec		09/23/25 0000	09/23/25 1851	RAF
Surrogate: 1,2-Dichloroethane-d4	96.5	Limit: 49-135	% Rec		09/23/25 0000	09/23/25 1851	RAF
Surrogate: Toluene-d8	100	Limit: 82-121	% Rec		09/23/25 0000	09/23/25 1851	RAF
Surrogate: Toluene-d8	100	Limit: 82-116	% Rec		09/23/25 0000	09/23/25 1851	RAF
Surrogate: 4-Bromofluorobenzene	94.9	Limit: 80-116	% Rec		09/23/25 0000	09/23/25 1851	RAF
Surrogate: 4-Bromofluorobenzene	94.9	Limit: 77-114	% Rec		09/23/25 0000	09/23/25 1851	RAF

Determination of Total Metals	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A							
Antimony, total	<0.0010	0.0010	mg/L		09/19/25 0724	09/20/25 0321	JAR
Arsenic, total	<0.0020	0.0020	mg/L		09/19/25 0724	09/20/25 0321	JAR
Barium, total	0.544	0.0010	mg/L		09/19/25 0724	09/20/25 0321	JAR
Beryllium, total	<0.0005	0.0005	mg/L		09/19/25 0724	09/20/25 0321	JAR
Cadmium, total	0.0004	0.0002	mg/L		09/19/25 0724	09/20/25 0321	JAR
Chromium, total	<0.0010	0.0010	mg/L		09/19/25 0724	09/20/25 0321	JAR
Cobalt, total	0.0063	0.0005	mg/L		09/19/25 0724	09/20/25 0321	JAR
Copper, total	<0.0050	0.0050	mg/L		09/19/25 0724	09/20/25 0321	JAR
Lead, total	<0.0010	0.0010	mg/L		09/19/25 0724	09/20/25 0321	JAR
Nickel, total	0.0160	0.0050	mg/L		09/19/25 0724	09/20/25 0321	JAR
Selenium, total	<0.0020	0.0020	mg/L		09/19/25 0724	09/20/25 0321	JAR
Silver, total	<0.0050	0.0050	mg/L		09/19/25 0724	09/20/25 0321	JAR
Thallium, total	<0.0005	0.0005	mg/L		09/19/25 0724	09/20/25 0321	JAR
Vanadium, total	<0.0020	0.0020	mg/L		09/19/25 0724	09/20/25 0321	JAR
Zinc, total	0.0088	0.0050	mg/L		09/19/25 0724	09/20/25 0321	JAR

Client Sample ID: MW-11
Sample Matrix: Aqueous
Lab Sample ID: 111548-08

Collected By: JGH
Collection Date: 09/17/2025 10:43

Determination of Total Metals	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A							
Cobalt, total	<0.0005	0.0005	mg/L		09/19/25 0724	09/20/25 0324	JAR

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CERTIFICATE OF ANALYSIS

111548

Client Sample ID: MW-27
Sample Matrix: Aqueous
Lab Sample ID: 111548-09

Collected By: JGH
Collection Date: 09/17/2025 11:00

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 8260D							
Chloromethane	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1914	RAF
Vinyl Chloride	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1914	RAF
Bromomethane	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1914	RAF
Chloroethane	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1914	RAF
Trichlorofluoromethane	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1914	RAF
1,1-Dichloroethylene	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1914	RAF
Acetone	<10.0	10.0	ug/L		09/23/25 0000	09/23/25 1914	RAF
Methyl Iodide	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1914	RAF
Carbon Disulfide	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1914	RAF
Methylene Chloride	<5.0	5.0	ug/L		09/23/25 0000	09/23/25 1914	RAF
Acrylonitrile	<5.0	5.0	ug/L		09/23/25 0000	09/23/25 1914	RAF
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1914	RAF
1,1-Dichloroethane	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1914	RAF
Vinyl Acetate	<5.0	5.0	ug/L		09/23/25 0000	09/23/25 1914	RAF
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1914	RAF
2-Butanone (MEK)	<10.0	10.0	ug/L		09/23/25 0000	09/23/25 1914	RAF
Bromochloromethane	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1914	RAF
Chloroform	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1914	RAF
1,1,1-Trichloroethane	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1914	RAF
Carbon Tetrachloride	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1914	RAF
Benzene	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1914	RAF
1,2-Dichloroethane	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1914	RAF
Trichloroethylene	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1914	RAF
1,2-Dichloropropane	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1914	RAF
Dibromomethane	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1914	RAF
Bromodichloromethane	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1914	RAF
cis-1,3-Dichloropropene	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1914	RAF
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L		09/23/25 0000	09/23/25 1914	RAF
Toluene	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1914	RAF
trans-1,3-Dichloropropene	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1914	RAF
1,1,2-Trichloroethane	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1914	RAF
Tetrachloroethylene	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1914	RAF
2-Hexanone (MBK)	<5.0	5.0	ug/L		09/23/25 0000	09/23/25 1914	RAF
Dibromochloromethane	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1914	RAF
1,2-Dibromoethane	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1914	RAF
Chlorobenzene	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1914	RAF
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1914	RAF
Ethylbenzene	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1914	RAF
Xylenes, total	<2.0	2.0	ug/L		09/23/25 0000	09/23/25 1914	RAF
Styrene	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1914	RAF
Bromoform	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1914	RAF
1,2,3-Trichloropropane	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1914	RAF

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CERTIFICATE OF ANALYSIS

111548

Client Sample ID: MW-27
Sample Matrix: Aqueous
Lab Sample ID: 111548-09

Collected By: JGH
Collection Date: 09/17/2025 11:00

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
trans-1,4-Dichloro-2-butene	<5.0	5.0	ug/L		09/23/25 0000	09/23/25 1914	RAF
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1914	RAF
1,4-Dichlorobenzene	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1914	RAF
1,2-Dichlorobenzene	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1914	RAF
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L		09/23/25 0000	09/23/25 1914	RAF
Surrogate: Dibromofluoromethane	98.0	Limit: 57-128	% Rec		09/23/25 0000	09/23/25 1914	RAF
Surrogate: Dibromofluoromethane	98.0	Limit: 75-136	% Rec		09/23/25 0000	09/23/25 1914	RAF
Surrogate: 1,2-Dichloroethane-d4	95.4	Limit: 49-135	% Rec		09/23/25 0000	09/23/25 1914	RAF
Surrogate: 1,2-Dichloroethane-d4	95.4	Limit: 61-142	% Rec		09/23/25 0000	09/23/25 1914	RAF
Surrogate: Toluene-d8	103	Limit: 82-116	% Rec		09/23/25 0000	09/23/25 1914	RAF
Surrogate: Toluene-d8	103	Limit: 82-121	% Rec		09/23/25 0000	09/23/25 1914	RAF
Surrogate: 4-Bromofluorobenzene	95.4	Limit: 80-116	% Rec		09/23/25 0000	09/23/25 1914	RAF
Surrogate: 4-Bromofluorobenzene	95.4	Limit: 77-114	% Rec		09/23/25 0000	09/23/25 1914	RAF

Determination of Total Metals	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A							
Antimony, total	<0.0010	0.0010	mg/L		09/19/25 0724	09/20/25 0326	JAR
Arsenic, total	<0.0020	0.0020	mg/L		09/19/25 0724	09/20/25 0326	JAR
Barium, total	0.175	0.0010	mg/L		09/19/25 0724	09/20/25 0326	JAR
Beryllium, total	<0.0005	0.0005	mg/L		09/19/25 0724	09/20/25 0326	JAR
Cadmium, total	<0.0002	0.0002	mg/L		09/19/25 0724	09/20/25 0326	JAR
Chromium, total	0.0011	0.0010	mg/L		09/19/25 0724	09/20/25 0326	JAR
Cobalt, total	<0.0005	0.0005	mg/L		09/19/25 0724	09/20/25 0326	JAR
Copper, total	<0.0050	0.0050	mg/L		09/19/25 0724	09/20/25 0326	JAR
Lead, total	<0.0010	0.0010	mg/L		09/19/25 0724	09/20/25 0326	JAR
Nickel, total	<0.0050	0.0050	mg/L		09/19/25 0724	09/20/25 0326	JAR
Selenium, total	<0.0020	0.0020	mg/L		09/19/25 0724	09/20/25 0326	JAR
Silver, total	<0.0050	0.0050	mg/L		09/19/25 0724	09/20/25 0326	JAR
Thallium, total	<0.0005	0.0005	mg/L		09/19/25 0724	09/20/25 0326	JAR
Vanadium, total	<0.0020	0.0020	mg/L		09/19/25 0724	09/20/25 0326	JAR
Zinc, total	<0.0050	0.0050	mg/L		09/19/25 0724	09/20/25 0326	JAR

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CERTIFICATE OF ANALYSIS

111548

Client Sample ID: MW-34
Sample Matrix: Aqueous
Lab Sample ID: 111548-10

Collected By: JGH
Collection Date: 09/17/2025 11:21

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 8260D							
Chloromethane	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1937	RAF
Vinyl Chloride	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1937	RAF
Bromomethane	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1937	RAF
Chloroethane	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1937	RAF
Trichlorofluoromethane	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1937	RAF
1,1-Dichloroethylene	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1937	RAF
Acetone	<10.0	10.0	ug/L		09/23/25 0000	09/23/25 1937	RAF
Methyl Iodide	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1937	RAF
Carbon Disulfide	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1937	RAF
Methylene Chloride	<5.0	5.0	ug/L		09/23/25 0000	09/23/25 1937	RAF
Acrylonitrile	<5.0	5.0	ug/L		09/23/25 0000	09/23/25 1937	RAF
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1937	RAF
1,1-Dichloroethane	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1937	RAF
Vinyl Acetate	<5.0	5.0	ug/L		09/23/25 0000	09/23/25 1937	RAF
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1937	RAF
2-Butanone (MEK)	<10.0	10.0	ug/L		09/23/25 0000	09/23/25 1937	RAF
Bromochloromethane	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1937	RAF
Chloroform	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1937	RAF
1,1,1-Trichloroethane	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1937	RAF
Carbon Tetrachloride	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1937	RAF
Benzene	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1937	RAF
1,2-Dichloroethane	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1937	RAF
Trichloroethylene	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1937	RAF
1,2-Dichloropropane	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1937	RAF
Dibromomethane	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1937	RAF
Bromodichloromethane	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1937	RAF
cis-1,3-Dichloropropene	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1937	RAF
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L		09/23/25 0000	09/23/25 1937	RAF
Toluene	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1937	RAF
trans-1,3-Dichloropropene	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1937	RAF
1,1,2-Trichloroethane	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1937	RAF
Tetrachloroethylene	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1937	RAF
2-Hexanone (MBK)	<5.0	5.0	ug/L		09/23/25 0000	09/23/25 1937	RAF
Dibromochloromethane	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1937	RAF
1,2-Dibromoethane	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1937	RAF
Chlorobenzene	1.7	1.0	ug/L		09/23/25 0000	09/23/25 1937	RAF
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1937	RAF
Ethylbenzene	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1937	RAF
Xylenes, total	<2.0	2.0	ug/L		09/23/25 0000	09/23/25 1937	RAF
Styrene	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1937	RAF
Bromoform	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1937	RAF
1,2,3-Trichloropropane	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1937	RAF

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CERTIFICATE OF ANALYSIS

111548

Client Sample ID: MW-34
Sample Matrix: Aqueous
Lab Sample ID: 111548-10

Collected By: JGH
Collection Date: 09/17/2025 11:21

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
trans-1,4-Dichloro-2-butene	<5.0	5.0	ug/L		09/23/25 0000	09/23/25 1937	RAF
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1937	RAF
1,4-Dichlorobenzene	2.4	1.0	ug/L		09/23/25 0000	09/23/25 1937	RAF
1,2-Dichlorobenzene	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 1937	RAF
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L		09/23/25 0000	09/23/25 1937	RAF
Surrogate: Dibromofluoromethane	93.0	Limit: 75-136	% Rec		09/23/25 0000	09/23/25 1937	RAF
Surrogate: Dibromofluoromethane	93.0	Limit: 57-128	% Rec		09/23/25 0000	09/23/25 1937	RAF
Surrogate: 1,2-Dichloroethane-d4	93.7	Limit: 49-135	% Rec		09/23/25 0000	09/23/25 1937	RAF
Surrogate: 1,2-Dichloroethane-d4	93.7	Limit: 61-142	% Rec		09/23/25 0000	09/23/25 1937	RAF
Surrogate: Toluene-d8	102	Limit: 82-116	% Rec		09/23/25 0000	09/23/25 1937	RAF
Surrogate: Toluene-d8	102	Limit: 82-121	% Rec		09/23/25 0000	09/23/25 1937	RAF
Surrogate: 4-Bromofluorobenzene	90.3	Limit: 77-114	% Rec		09/23/25 0000	09/23/25 1937	RAF
Surrogate: 4-Bromofluorobenzene	90.3	Limit: 80-116	% Rec		09/23/25 0000	09/23/25 1937	RAF

Determination of Total Metals	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A							
Antimony, total	<0.0010	0.0010	mg/L		09/19/25 0724	09/20/25 0329	JAR
Arsenic, total	0.0034	0.0020	mg/L		09/19/25 0724	09/20/25 0329	JAR
Barium, total	0.178	0.0010	mg/L		09/19/25 0724	09/20/25 0329	JAR
Beryllium, total	<0.0005	0.0005	mg/L		09/19/25 0724	09/20/25 0329	JAR
Cadmium, total	<0.0002	0.0002	mg/L		09/19/25 0724	09/20/25 0329	JAR
Chromium, total	0.0012	0.0010	mg/L		09/19/25 0724	09/20/25 0329	JAR
Cobalt, total	0.0036	0.0005	mg/L		09/19/25 0724	09/20/25 0329	JAR
Copper, total	<0.0050	0.0050	mg/L		09/19/25 0724	09/20/25 0329	JAR
Lead, total	<0.0010	0.0010	mg/L		09/19/25 0724	09/20/25 0329	JAR
Nickel, total	0.0106	0.0050	mg/L		09/19/25 0724	09/20/25 0329	JAR
Selenium, total	<0.0020	0.0020	mg/L		09/19/25 0724	09/20/25 0329	JAR
Silver, total	<0.0050	0.0050	mg/L		09/19/25 0724	09/20/25 0329	JAR
Thallium, total	<0.0005	0.0005	mg/L		09/19/25 0724	09/20/25 0329	JAR
Vanadium, total	<0.0020	0.0020	mg/L		09/19/25 0724	09/20/25 0329	JAR
Zinc, total	0.0051	0.0050	mg/L		09/19/25 0724	09/20/25 0329	JAR

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CERTIFICATE OF ANALYSIS

111548

Client Sample ID: MW-35
Sample Matrix: Aqueous
Lab Sample ID: 111548-11

Collected By: JGH
Collection Date: 09/17/2025 12:07

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 8260D							
Dichlorodifluoromethane	1.8	1.0	ug/L		09/23/25 0000	09/23/25 2000	RAF
Chloromethane	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 2000	RAF
Vinyl Chloride	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 2000	RAF
Bromomethane	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 2000	RAF
Chloroethane	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 2000	RAF
Trichlorofluoromethane	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 2000	RAF
1,1-Dichloroethylene	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 2000	RAF
Acetone	<10.0	10.0	ug/L		09/23/25 0000	09/23/25 2000	RAF
Methyl Iodide	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 2000	RAF
Carbon Disulfide	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 2000	RAF
Methylene Chloride	<5.0	5.0	ug/L		09/23/25 0000	09/23/25 2000	RAF
Acrylonitrile	<5.0	5.0	ug/L		09/23/25 0000	09/23/25 2000	RAF
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 2000	RAF
1,1-Dichloroethane	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 2000	RAF
Vinyl Acetate	<5.0	5.0	ug/L		09/23/25 0000	09/23/25 2000	RAF
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 2000	RAF
2-Butanone (MEK)	<10.0	10.0	ug/L		09/23/25 0000	09/23/25 2000	RAF
Bromochloromethane	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 2000	RAF
Chloroform	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 2000	RAF
1,1,1-Trichloroethane	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 2000	RAF
Carbon Tetrachloride	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 2000	RAF
Benzene	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 2000	RAF
1,2-Dichloroethane	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 2000	RAF
Trichloroethylene	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 2000	RAF
1,2-Dichloropropane	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 2000	RAF
Dibromomethane	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 2000	RAF
Bromodichloromethane	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 2000	RAF
cis-1,3-Dichloropropene	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 2000	RAF
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L		09/23/25 0000	09/23/25 2000	RAF
Toluene	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 2000	RAF
trans-1,3-Dichloropropene	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 2000	RAF
1,1,2-Trichloroethane	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 2000	RAF
Tetrachloroethylene	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 2000	RAF
2-Hexanone (MBK)	<5.0	5.0	ug/L		09/23/25 0000	09/23/25 2000	RAF
Dibromochloromethane	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 2000	RAF
1,2-Dibromoethane	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 2000	RAF
Chlorobenzene	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 2000	RAF
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 2000	RAF
Ethylbenzene	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 2000	RAF
Xylenes, total	<2.0	2.0	ug/L		09/23/25 0000	09/23/25 2000	RAF
Styrene	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 2000	RAF
Bromoform	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 2000	RAF

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CERTIFICATE OF ANALYSIS

111548

Client Sample ID: MW-35
Sample Matrix: Aqueous
Lab Sample ID: 111548-11

Collected By: JGH
Collection Date: 09/17/2025 12:07

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
1,2,3-Trichloropropane	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 2000	RAF
trans-1,4-Dichloro-2-butene	<5.0	5.0	ug/L		09/23/25 0000	09/23/25 2000	RAF
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 2000	RAF
1,4-Dichlorobenzene	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 2000	RAF
1,2-Dichlorobenzene	<1.0	1.0	ug/L		09/23/25 0000	09/23/25 2000	RAF
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L		09/23/25 0000	09/23/25 2000	RAF
Surrogate: Dibromofluoromethane	92.0	Limit: 57-128	% Rec		09/23/25 0000	09/23/25 2000	RAF
Surrogate: Dibromofluoromethane	92.0	Limit: 75-136	% Rec		09/23/25 0000	09/23/25 2000	RAF
Surrogate: 1,2-Dichloroethane-d4	97.0	Limit: 61-142	% Rec		09/23/25 0000	09/23/25 2000	RAF
Surrogate: 1,2-Dichloroethane-d4	97.0	Limit: 49-135	% Rec		09/23/25 0000	09/23/25 2000	RAF
Surrogate: Toluene-d8	100	Limit: 82-116	% Rec		09/23/25 0000	09/23/25 2000	RAF
Surrogate: Toluene-d8	100	Limit: 82-121	% Rec		09/23/25 0000	09/23/25 2000	RAF
Surrogate: 4-Bromofluorobenzene	95.1	Limit: 77-114	% Rec		09/23/25 0000	09/23/25 2000	RAF
Surrogate: 4-Bromofluorobenzene	95.1	Limit: 80-116	% Rec		09/23/25 0000	09/23/25 2000	RAF

Determination of Total Metals	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A							
Antimony, total	<0.0010	0.0010	mg/L		09/19/25 0724	09/20/25 0331	JAR
Arsenic, total	<0.0020	0.0020	mg/L		09/19/25 0724	09/20/25 0331	JAR
Barium, total	0.454	0.0010	mg/L		09/19/25 0724	09/20/25 0331	JAR
Beryllium, total	<0.0005	0.0005	mg/L		09/19/25 0724	09/20/25 0331	JAR
Cadmium, total	<0.0002	0.0002	mg/L		09/19/25 0724	09/20/25 0331	JAR
Chromium, total	0.0011	0.0010	mg/L		09/19/25 0724	09/20/25 0331	JAR
Cobalt, total	<0.0005	0.0005	mg/L		09/19/25 0724	09/20/25 0331	JAR
Copper, total	<0.0050	0.0050	mg/L		09/19/25 0724	09/20/25 0331	JAR
Lead, total	<0.0010	0.0010	mg/L		09/19/25 0724	09/20/25 0331	JAR
Nickel, total	<0.0050	0.0050	mg/L		09/19/25 0724	09/20/25 0331	JAR
Selenium, total	<0.0020	0.0020	mg/L		09/19/25 0724	09/20/25 0331	JAR
Silver, total	<0.0050	0.0050	mg/L		09/19/25 0724	09/20/25 0331	JAR
Thallium, total	<0.0005	0.0005	mg/L		09/19/25 0724	09/20/25 0331	JAR
Vanadium, total	<0.0020	0.0020	mg/L		09/19/25 0724	09/20/25 0331	JAR
Zinc, total	<0.0050	0.0050	mg/L		09/19/25 0724	09/20/25 0331	JAR

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Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

111548

Client Sample ID: MW-36
Sample Matrix: Aqueous
Lab Sample ID: 111548-12

Collected By: JGH
Collection Date: 09/17/2025 12:19

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 8260D							
Chloromethane	<1.0	1.0	ug/L		09/24/25 0000	09/24/25 1118	RAF
Vinyl Chloride	<1.0	1.0	ug/L		09/24/25 0000	09/24/25 1118	RAF
Bromomethane	<1.0	1.0	ug/L		09/24/25 0000	09/24/25 1118	RAF
Chloroethane	<1.0	1.0	ug/L		09/24/25 0000	09/24/25 1118	RAF
Trichlorofluoromethane	<1.0	1.0	ug/L		09/24/25 0000	09/24/25 1118	RAF
1,1-Dichloroethylene	<1.0	1.0	ug/L		09/24/25 0000	09/24/25 1118	RAF
Acetone	<10.0	10.0	ug/L		09/24/25 0000	09/24/25 1118	RAF
Methyl Iodide	<1.0	1.0	ug/L		09/24/25 0000	09/24/25 1118	RAF
Carbon Disulfide	<1.0	1.0	ug/L		09/24/25 0000	09/24/25 1118	RAF
Methylene Chloride	<5.0	5.0	ug/L		09/24/25 0000	09/24/25 1118	RAF
Acrylonitrile	<5.0	5.0	ug/L		09/24/25 0000	09/24/25 1118	RAF
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L		09/24/25 0000	09/24/25 1118	RAF
1,1-Dichloroethane	<1.0	1.0	ug/L		09/24/25 0000	09/24/25 1118	RAF
Vinyl Acetate	<5.0	5.0	ug/L		09/24/25 0000	09/24/25 1118	RAF
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L		09/24/25 0000	09/24/25 1118	RAF
2-Butanone (MEK)	<10.0	10.0	ug/L		09/24/25 0000	09/24/25 1118	RAF
Bromochloromethane	<1.0	1.0	ug/L		09/24/25 0000	09/24/25 1118	RAF
Chloroform	<1.0	1.0	ug/L		09/24/25 0000	09/24/25 1118	RAF
1,1,1-Trichloroethane	<1.0	1.0	ug/L		09/24/25 0000	09/24/25 1118	RAF
Carbon Tetrachloride	<1.0	1.0	ug/L		09/24/25 0000	09/24/25 1118	RAF
Benzene	<1.0	1.0	ug/L		09/24/25 0000	09/24/25 1118	RAF
1,2-Dichloroethane	<1.0	1.0	ug/L		09/24/25 0000	09/24/25 1118	RAF
Trichloroethylene	<1.0	1.0	ug/L		09/24/25 0000	09/24/25 1118	RAF
1,2-Dichloropropane	<1.0	1.0	ug/L		09/24/25 0000	09/24/25 1118	RAF
Dibromomethane	<1.0	1.0	ug/L		09/24/25 0000	09/24/25 1118	RAF
Bromodichloromethane	<1.0	1.0	ug/L		09/24/25 0000	09/24/25 1118	RAF
cis-1,3-Dichloropropene	<1.0	1.0	ug/L		09/24/25 0000	09/24/25 1118	RAF
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L		09/24/25 0000	09/24/25 1118	RAF
Toluene	<1.0	1.0	ug/L		09/24/25 0000	09/24/25 1118	RAF
trans-1,3-Dichloropropene	<1.0	1.0	ug/L		09/24/25 0000	09/24/25 1118	RAF
1,1,2-Trichloroethane	<1.0	1.0	ug/L		09/24/25 0000	09/24/25 1118	RAF
Tetrachloroethylene	<1.0	1.0	ug/L		09/24/25 0000	09/24/25 1118	RAF
2-Hexanone (MBK)	<5.0	5.0	ug/L		09/24/25 0000	09/24/25 1118	RAF
Dibromochloromethane	<1.0	1.0	ug/L		09/24/25 0000	09/24/25 1118	RAF
1,2-Dibromoethane	<1.0	1.0	ug/L		09/24/25 0000	09/24/25 1118	RAF
Chlorobenzene	<1.0	1.0	ug/L		09/24/25 0000	09/24/25 1118	RAF
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L		09/24/25 0000	09/24/25 1118	RAF
Ethylbenzene	<1.0	1.0	ug/L		09/24/25 0000	09/24/25 1118	RAF
Xylenes, total	<2.0	2.0	ug/L		09/24/25 0000	09/24/25 1118	RAF
Styrene	<1.0	1.0	ug/L		09/24/25 0000	09/24/25 1118	RAF
Bromoform	<1.0	1.0	ug/L		09/24/25 0000	09/24/25 1118	RAF
1,2,3-Trichloropropane	<1.0	1.0	ug/L		09/24/25 0000	09/24/25 1118	RAF

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Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

111548

Client Sample ID: MW-36
Sample Matrix: Aqueous
Lab Sample ID: 111548-12

Collected By: JGH
Collection Date: 09/17/2025 12:19

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
trans-1,4-Dichloro-2-butene	<5.0	5.0	ug/L		09/24/25 0000	09/24/25 1118	RAF
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L		09/24/25 0000	09/24/25 1118	RAF
1,4-Dichlorobenzene	<1.0	1.0	ug/L		09/24/25 0000	09/24/25 1118	RAF
1,2-Dichlorobenzene	<1.0	1.0	ug/L		09/24/25 0000	09/24/25 1118	RAF
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L		09/24/25 0000	09/24/25 1118	RAF
Surrogate: Dibromofluoromethane	91.4	Limit: 75-136	% Rec		09/24/25 0000	09/24/25 1118	RAF
Surrogate: Dibromofluoromethane	91.4	Limit: 57-128	% Rec		09/24/25 0000	09/24/25 1118	RAF
Surrogate: 1,2-Dichloroethane-d4	90.4	Limit: 61-142	% Rec		09/24/25 0000	09/24/25 1118	RAF
Surrogate: 1,2-Dichloroethane-d4	90.4	Limit: 49-135	% Rec		09/24/25 0000	09/24/25 1118	RAF
Surrogate: Toluene-d8	102	Limit: 82-121	% Rec		09/24/25 0000	09/24/25 1118	RAF
Surrogate: Toluene-d8	102	Limit: 82-116	% Rec		09/24/25 0000	09/24/25 1118	RAF
Surrogate: 4-Bromofluorobenzene	94.0	Limit: 77-114	% Rec		09/24/25 0000	09/24/25 1118	RAF
Surrogate: 4-Bromofluorobenzene	94.0	Limit: 80-116	% Rec		09/24/25 0000	09/24/25 1118	RAF

Determination of Total Metals	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A							
Antimony, total	<0.0010	0.0010	mg/L		09/19/25 0724	09/20/25 0334	JAR
Arsenic, total	<0.0020	0.0020	mg/L		09/19/25 0724	09/20/25 0334	JAR
Barium, total	0.302	0.0010	mg/L		09/19/25 0724	09/20/25 0334	JAR
Beryllium, total	<0.0005	0.0005	mg/L		09/19/25 0724	09/20/25 0334	JAR
Cadmium, total	<0.0002	0.0002	mg/L		09/19/25 0724	09/20/25 0334	JAR
Chromium, total	0.0030	0.0010	mg/L		09/19/25 0724	09/20/25 0334	JAR
Cobalt, total	<0.0005	0.0005	mg/L		09/19/25 0724	09/20/25 0334	JAR
Copper, total	<0.0050	0.0050	mg/L		09/19/25 0724	09/20/25 0334	JAR
Lead, total	<0.0010	0.0010	mg/L		09/19/25 0724	09/20/25 0334	JAR
Nickel, total	<0.0050	0.0050	mg/L		09/19/25 0724	09/20/25 0334	JAR
Selenium, total	<0.0020	0.0020	mg/L		09/19/25 0724	09/20/25 0334	JAR
Silver, total	<0.0050	0.0050	mg/L		09/19/25 0724	09/20/25 0334	JAR
Thallium, total	<0.0005	0.0005	mg/L		09/19/25 0724	09/20/25 0334	JAR
Vanadium, total	<0.0020	0.0020	mg/L		09/19/25 0724	09/20/25 0334	JAR
Zinc, total	<0.0050	0.0050	mg/L		09/19/25 0724	09/20/25 0334	JAR

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CERTIFICATE OF ANALYSIS

111548

Client Sample ID: Duplicate
Sample Matrix: Aqueous
Lab Sample ID: 111548-13

Collected By: JGH
Collection Date: 09/17/2025

Determination of Total Metals	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A							
Antimony, total	<0.0010	0.0010	mg/L		09/19/25 0724	09/20/25 0336	JAR
Arsenic, total	<0.0020	0.0020	mg/L		09/19/25 0724	09/20/25 0336	JAR
Barium, total	0.488	0.0010	mg/L		09/19/25 0724	09/20/25 0336	JAR
Beryllium, total	<0.0005	0.0005	mg/L		09/19/25 0724	09/20/25 0336	JAR
Cadmium, total	<0.0002	0.0002	mg/L		09/19/25 0724	09/20/25 0336	JAR
Chromium, total	<0.0010	0.0010	mg/L		09/19/25 0724	09/20/25 0336	JAR
Cobalt, total	0.0054	0.0005	mg/L		09/19/25 0724	09/20/25 0336	JAR
Copper, total	<0.0050	0.0050	mg/L		09/19/25 0724	09/20/25 0336	JAR
Lead, total	<0.0010	0.0010	mg/L		09/19/25 0724	09/20/25 0336	JAR
Nickel, total	0.0138	0.0050	mg/L		09/19/25 0724	09/20/25 0336	JAR
Selenium, total	<0.0020	0.0020	mg/L		09/19/25 0724	09/20/25 0336	JAR
Silver, total	<0.0050	0.0050	mg/L		09/19/25 0724	09/20/25 0336	JAR
Thallium, total	<0.0005	0.0005	mg/L		09/19/25 0724	09/20/25 0336	JAR
Vanadium, total	<0.0020	0.0020	mg/L		09/19/25 0724	09/20/25 0336	JAR
Zinc, total	0.0083	0.0050	mg/L		09/19/25 0724	09/20/25 0336	JAR

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Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

111548

Batch Log Summary

Method	Batch	Laboratory ID	Client / Source ID
EPA 6020A	111158	111158-BLK1	
		111158-BS1	
		111158-MS1	1110273-04RE1
		111158-MSD1	1110273-04RE1
		111158-PS1	1110273-04RE1
		111548-01	MW-20(up)
		111548-02	MW-26(up)
		111548-03	MW-37(up)
		111548-04	MW-33(up)
		111548-05	MW-3A
		111548-06	MW-8
		111548-07	MW-10
		111548-08	MW-11
		111548-09	MW-27
		111548-10	MW-34
		111548-11	MW-35
		111548-12	MW-36
		111548-13	Duplicate
		111158-BLK1	
Method	Batch	Laboratory ID	Client / Source ID
EPA 8260D	111380	111380-BLK1	
		111380-BS1	
		111380-BSD1	
		111548-01	MW-20(up)
		111548-02	MW-26(up)
		111548-03	MW-37(up)
		111548-04	MW-33(up)
		111548-05	MW-3A
		111548-06	MW-8
		111548-07	MW-10
		111548-09	MW-27
		111548-10	MW-34
		111548-11	MW-35
		111380-MS1	111519-01
		111380-MSD1	111519-01
Method	Batch	Laboratory ID	Client / Source ID
EPA 8260D	111442	111442-BS1	
		111442-BSD1	
		111442-BLK1	
		111548-12	MW-36
		111442-MS1	3110106-02
		111442-MSD1	3110106-02

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 111380 - EPA 5030B - EPA 8260D										

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CERTIFICATE OF ANALYSIS

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Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Blank (111380-BLK1)				Prepared: 09/23/25 00:00 Analyzed: 09/23/25 11:14						
Dichlorodifluoromethane	<1.0	1.0	ug/L							
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							
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							

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Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

111548

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch 111380 - EPA 5030B - EPA 8260D									
Blank (111380-BLK1)									
				Prepared: 09/23/25 00:00 Analyzed: 09/23/25 11:14					
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	46.2		ug/L	50.2		92.0	57-128		
Surrogate: Dibromofluoromethane	46.2		ug/L	50.2		92.0	75-136		
Surrogate: 1,2-Dichloroethane-d4	48.1		ug/L	50.4		95.5	61-142		
Surrogate: 1,2-Dichloroethane-d4	48.1		ug/L	50.4		95.5	49-135		
Surrogate: Toluene-d8	50.5		ug/L	50.5		100	82-116		
Surrogate: Toluene-d8	50.5		ug/L	50.5		100	82-121		
Surrogate: 4-Bromofluorobenzene	44.1		ug/L	50.2		87.9	77-114		
Surrogate: 4-Bromofluorobenzene	44.1		ug/L	50.2		87.9	80-116		
LCS (111380-BS1)									
				Prepared: 09/23/25 00:00 Analyzed: 09/23/25 11:37					
Dichlorodifluoromethane	41.63	1.0	ug/L	30.3		137	55-141		
Chloromethane	35.85	1.0	ug/L	30.3		118	63-155		
Vinyl Chloride	39.62	1.0	ug/L	30.2		131	70-154		
Bromomethane	18.47	1.0	ug/L	30.1		61.3	52-176		
Chloroethane	22.05	1.0	ug/L	30.3		72.7	72-148		
Trichlorofluoromethane	30.23	1.0	ug/L	30.3		99.7	70-152		
1,1-Dichloroethylene	54.17	1.0	ug/L	50.1		108	70-148		
Acetone	79.58	10.0	ug/L	100		79.6	43-172		
Methyl Iodide	123.5	1.0	ug/L	100		123	69-170		
Carbon Disulfide	105.9	1.0	ug/L	100		106	72-162		
Methylene Chloride	49.03	5.0	ug/L	50.1		97.9	68-142		
Acrylonitrile	88.69	5.0	ug/L	50.4		176	33-163		Q2
trans-1,2-Dichloroethylene	49.72	1.0	ug/L	50.1		99.3	66-148		
1,1-Dichloroethane	50.69	1.0	ug/L	50.1		101	66-143		
Vinyl Acetate	67.03	5.0	ug/L	50.0		134	43-153		
cis-1,2-Dichloroethylene	48.28	1.0	ug/L	50.4		95.9	71-149		
2-Butanone (MEK)	92.27	10.0	ug/L	100		92.3	52-159		
Bromochloromethane	50.28	1.0	ug/L	50.4		99.8	69-143		
Chloroform	48.85	1.0	ug/L	50.1		97.5	69-144		
1,1,1-Trichloroethane	50.88	1.0	ug/L	50.1		102	62-129		
Carbon Tetrachloride	45.21	1.0	ug/L	50.1		90.3	63-141		
Benzene	52.47	1.0	ug/L	50.4		104	71-134		
1,2-Dichloroethane	49.99	1.0	ug/L	50.1		99.8	72-132		
Trichloroethylene	54.79	1.0	ug/L	50.1		109	71-135		
1,2-Dichloropropane	52.66	1.0	ug/L	50.1		105	69-136		
Dibromomethane	51.00	1.0	ug/L	50.4		101	73-147		
Bromodichloromethane	52.08	1.0	ug/L	50.1		104	68-129		
cis-1,3-Dichloropropene	56.56	1.0	ug/L	50.1		113	65-134		
4-Methyl-2-pentanone (MIBK)	101.9	5.0	ug/L	100		102	58-147		
Toluene	51.97	1.0	ug/L	50.5		103	72-133		

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Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

11I1548

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 11I1380 - EPA 5030B - EPA 8260D										
LCS (11I1380-BS1)										
Prepared: 09/23/25 00:00 Analyzed: 09/23/25 11:37										
trans-1,3-Dichloropropene	57.38	1.0	ug/L	50.1		115	67-130			
1,1,2-Trichloroethane	49.41	1.0	ug/L	50.1		98.6	69-135			
Tetrachloroethylene	56.60	1.0	ug/L	50.1		113	69-130			
2-Hexanone (MBK)	96.83	5.0	ug/L	100		96.8	55-144			
Dibromochloromethane	51.70	1.0	ug/L	50.1		103	73-127			
1,2-Dibromoethane	54.57	1.0	ug/L	50.2		109	67-132			
Chlorobenzene	53.47	1.0	ug/L	50.1		107	72-123			
1,1,1,2-Tetrachloroethane	53.42	1.0	ug/L	50.3		106	73-127			
Ethylbenzene	54.74	1.0	ug/L	50.2		109	71-127			
Xylenes, total	162.6	2.0	ug/L	151		108	74-127			
Styrene	55.72	1.0	ug/L	50.4		111	66-126			
Bromoform	59.29	1.0	ug/L	50.1		118	68-130			
1,2,3-Trichloropropane	53.83	1.0	ug/L	50.3		107	63-136			
trans-1,4-Dichloro-2-butene	113.8	5.0	ug/L	100		114	54-134			
1,1,2,2-Tetrachloroethane	46.76	1.0	ug/L	50.1		93.3	61-131			
1,4-Dichlorobenzene	48.91	1.0	ug/L	50.1		97.6	70-129			
1,2-Dichlorobenzene	52.66	1.0	ug/L	50.1		105	69-126			
1,2-Dibromo-3-chloropropane	50.20	5.0	ug/L	50.1		100	50-143			
Surrogate: Dibromofluoromethane	49.2		ug/L	50.2		98.0	57-128			
Surrogate: Dibromofluoromethane	49.2		ug/L	50.2		98.0	75-136			
Surrogate: 1,2-Dichloroethane-d4	49.8		ug/L	50.4		98.9	49-135			
Surrogate: 1,2-Dichloroethane-d4	49.8		ug/L	50.4		98.9	61-142			
Surrogate: Toluene-d8	52.3		ug/L	50.5		104	82-116			
Surrogate: Toluene-d8	52.3		ug/L	50.5		104	82-121			
Surrogate: 4-Bromofluorobenzene	50.6		ug/L	50.2		101	77-114			
Surrogate: 4-Bromofluorobenzene	50.6		ug/L	50.2		101	80-116			
LCS Dup (11I1380-BSD1)										
Prepared: 09/23/25 00:00 Analyzed: 09/23/25 12:00										
Dichlorodifluoromethane	39.25	1.0	ug/L	30.3		130	55-141	5.89	24	
Chloromethane	35.45	1.0	ug/L	30.3		117	63-155	1.12	24	
Vinyl Chloride	36.53	1.0	ug/L	30.2		121	70-154	8.12	25	
Bromomethane	17.87	1.0	ug/L	30.1		59.3	52-176	3.30	27	
Chloroethane	20.95	1.0	ug/L	30.3		69.1	72-148	5.12	25	Q3
Trichlorofluoromethane	28.92	1.0	ug/L	30.3		95.4	70-152	4.43	26	
1,1-Dichloroethylene	50.11	1.0	ug/L	50.1		100	70-148	7.79	24	
Acetone	86.67	10.0	ug/L	100		86.7	43-172	8.53	30	
Methyl Iodide	116.2	1.0	ug/L	100		116	69-170	6.11	30	
Carbon Disulfide	98.87	1.0	ug/L	100		98.9	72-162	6.88	24	
Methylene Chloride	47.29	5.0	ug/L	50.1		94.4	68-142	3.61	21	
Acrylonitrile	90.50	5.0	ug/L	50.4		180	33-163	2.02	28	Q2
trans-1,2-Dichloroethylene	46.85	1.0	ug/L	50.1		93.5	66-148	5.94	27	
1,1-Dichloroethane	47.34	1.0	ug/L	50.1		94.5	66-143	6.83	24	
Vinyl Acetate	66.47	5.0	ug/L	50.0		133	43-153	0.839	30	
cis-1,2-Dichloroethylene	46.08	1.0	ug/L	50.4		91.5	71-149	4.66	26	

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CERTIFICATE OF ANALYSIS

11I1548

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 11I1380 - EPA 5030B - EPA 8260D										
LCS Dup (11I1380-BSD1)				Prepared: 09/23/25 00:00 Analyzed: 09/23/25 12:00						
2-Butanone (MEK)	100.7	10.0	ug/L	100		101	52-159	8.73	27	
Bromochloromethane	49.02	1.0	ug/L	50.4		97.3	69-143	2.54	23	
Chloroform	46.10	1.0	ug/L	50.1		92.0	69-144	5.79	23	
1,1,1-Trichloroethane	46.93	1.0	ug/L	50.1		93.6	62-129	8.08	24	
Carbon Tetrachloride	41.83	1.0	ug/L	50.1		83.5	63-141	7.77	25	
Benzene	49.41	1.0	ug/L	50.4		98.0	71-134	6.01	24	
1,2-Dichloroethane	49.70	1.0	ug/L	50.1		99.2	72-132	0.582	24	
Trichloroethylene	51.99	1.0	ug/L	50.1		104	71-135	5.24	24	
1,2-Dichloropropane	50.45	1.0	ug/L	50.1		101	69-136	4.29	24	
Dibromomethane	49.52	1.0	ug/L	50.4		98.3	73-147	2.94	25	
Bromodichloromethane	50.05	1.0	ug/L	50.1		99.9	68-129	3.98	22	
cis-1,3-Dichloropropene	54.65	1.0	ug/L	50.1		109	65-134	3.43	23	
4-Methyl-2-pentanone (MIBK)	103.3	5.0	ug/L	100		103	58-147	1.31	27	
Toluene	49.06	1.0	ug/L	50.5		97.2	72-133	5.76	24	
trans-1,3-Dichloropropene	55.87	1.0	ug/L	50.1		112	67-130	2.67	24	
1,1,2-Trichloroethane	46.93	1.0	ug/L	50.1		93.7	69-135	5.15	23	
Tetrachloroethylene	54.24	1.0	ug/L	50.1		108	69-130	4.26	25	
2-Hexanone (MBK)	95.29	5.0	ug/L	100		95.3	55-144	1.60	25	
Dibromochloromethane	51.20	1.0	ug/L	50.1		102	73-127	0.972	22	
1,2-Dibromoethane	52.15	1.0	ug/L	50.2		104	67-132	4.54	24	
Chlorobenzene	50.41	1.0	ug/L	50.1		101	72-123	5.89	23	
1,1,1,2-Tetrachloroethane	53.72	1.0	ug/L	50.3		107	73-127	0.560	24	
Ethylbenzene	52.01	1.0	ug/L	50.2		104	71-127	5.11	26	
Xylenes, total	153.0	2.0	ug/L	151		101	74-127	6.10	25	
Styrene	54.12	1.0	ug/L	50.4		107	66-126	2.91	23	
Bromoform	58.48	1.0	ug/L	50.1		117	68-130	1.38	23	
1,2,3-Trichloropropane	53.23	1.0	ug/L	50.3		106	63-136	1.12	24	
trans-1,4-Dichloro-2-butene	122.3	5.0	ug/L	100		122	54-134	7.24	27	
1,1,2,2-Tetrachloroethane	48.02	1.0	ug/L	50.1		95.8	61-131	2.66	29	
1,4-Dichlorobenzene	46.83	1.0	ug/L	50.1		93.4	70-129	4.35	24	
1,2-Dichlorobenzene	50.51	1.0	ug/L	50.1		101	69-126	4.17	26	
1,2-Dibromo-3-chloropropane	54.80	5.0	ug/L	50.1		109	50-143	8.76	30	
Surrogate: Dibromofluoromethane	47.6		ug/L	50.2		94.8	57-128			
Surrogate: Dibromofluoromethane	47.6		ug/L	50.2		94.8	75-136			
Surrogate: 1,2-Dichloroethane-d4	47.8		ug/L	50.4		94.8	49-135			
Surrogate: 1,2-Dichloroethane-d4	47.8		ug/L	50.4		94.8	61-142			
Surrogate: Toluene-d8	52.0		ug/L	50.5		103	82-116			
Surrogate: Toluene-d8	52.0		ug/L	50.5		103	82-121			
Surrogate: 4-Bromofluorobenzene	51.5		ug/L	50.2		103	77-114			
Surrogate: 4-Bromofluorobenzene	51.5		ug/L	50.2		103	80-116			

Matrix Spike (11I1380-MS1)		Source: 11I1519-01		Prepared: 09/23/25 00:00 Analyzed: 09/23/25 20:23						
Dichlorodifluoromethane	379.7	10.0	ug/L	303	ND	125	58-130			
Chloromethane	341.1	10.0	ug/L	303	ND	112	61-152			

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111548

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1111380 - EPA 5030B - EPA 8260D										
Matrix Spike (1111380-MS1)	Source: 1111519-01			Prepared: 09/23/25 00:00 Analyzed: 09/23/25 20:23						
Vinyl Chloride	344.8	10.0	ug/L	302	ND	114	66-149			
Bromomethane	188.7	10.0	ug/L	301	ND	62.6	43-171			
Chloroethane	216.5	10.0	ug/L	303	ND	71.4	69-148			
Trichlorofluoromethane	291.5	10.0	ug/L	303	ND	96.2	62-163			
1,1-Dichloroethylene	521.6	10.0	ug/L	501	ND	104	70-148			
Acetone	997.3	100	ug/L	1000	ND	99.7	45-173			
Methyl Iodide	1086	10.0	ug/L	1000	ND	109	62-167			
Carbon Disulfide	999.1	10.0	ug/L	1000	ND	99.9	71-163			
Methylene Chloride	478.5	50.0	ug/L	501	ND	95.5	69-140			
Acrylonitrile	889.3	50.0	ug/L	504	ND	177	32-159			M1
trans-1,2-Dichloroethylene	463.2	10.0	ug/L	501	ND	92.5	69-144			
1,1-Dichloroethane	498.4	10.0	ug/L	501	ND	99.5	70-138			
Vinyl Acetate	669.0	50.0	ug/L	500	ND	134	58-142			
cis-1,2-Dichloroethylene	456.3	10.0	ug/L	504	ND	90.6	68-151			
2-Butanone (MEK)	1062	100	ug/L	1000	ND	106	50-160			
Bromochloromethane	505.1	10.0	ug/L	504	ND	100	65-143			
Chloroform	473.0	10.0	ug/L	501	ND	94.4	71-143			
1,1,1-Trichloroethane	485.0	10.0	ug/L	501	ND	96.8	63-133			
Carbon Tetrachloride	434.5	10.0	ug/L	501	ND	86.7	63-142			
Benzene	498.7	10.0	ug/L	504	ND	98.9	69-133			
1,2-Dichloroethane	526.4	10.0	ug/L	501	ND	105	63-138			
Trichloroethylene	520.8	10.0	ug/L	501	ND	104	71-133			
1,2-Dichloropropane	515.5	10.0	ug/L	501	ND	103	69-132			
Dibromomethane	494.6	10.0	ug/L	504	ND	98.2	70-147			
Bromodichloromethane	507.2	10.0	ug/L	501	ND	101	67-130			
cis-1,3-Dichloropropene	541.7	10.0	ug/L	501	ND	108	61-126			
4-Methyl-2-pentanone (MIBK)	1045	50.0	ug/L	1000	ND	104	55-147			
Toluene	492.5	10.0	ug/L	505	ND	97.6	71-133			
trans-1,3-Dichloropropene	553.1	10.0	ug/L	501	ND	110	63-124			
1,1,2-Trichloroethane	493.1	10.0	ug/L	501	ND	98.4	69-133			
Tetrachloroethylene	564.2	10.0	ug/L	501	ND	113	70-124			
2-Hexanone (MBK)	1030	50.0	ug/L	1000	ND	103	53-141			
Dibromochloromethane	510.7	10.0	ug/L	501	ND	102	74-122			
1,2-Dibromoethane	514.5	10.0	ug/L	502	ND	102	66-127			
Chlorobenzene	512.1	10.0	ug/L	501	ND	102	76-116			
1,1,1,2-Tetrachloroethane	526.2	10.0	ug/L	503	ND	105	77-121			
Ethylbenzene	500.7	10.0	ug/L	502	ND	99.8	73-124			
Xylenes, total	1535	20.0	ug/L	1510	ND	102	75-123			
Styrene	532.6	10.0	ug/L	504	ND	106	70-120			
Bromoform	577.6	10.0	ug/L	501	ND	115	70-124			
1,2,3-Trichloropropane	510.9	10.0	ug/L	503	ND	101	62-135			
trans-1,4-Dichloro-2-butene	1071	50.0	ug/L	1000	ND	107	50-120			
1,1,2,2-Tetrachloroethane	466.8	10.0	ug/L	501	ND	93.2	63-126			

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11I1548

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 11I1380 - EPA 5030B - EPA 8260D										
Matrix Spike (11I1380-MS1)	Source: 11I1519-01			Prepared: 09/23/25 00:00 Analyzed: 09/23/25 20:23						
1,4-Dichlorobenzene	474.1	10.0	ug/L	501	ND	94.6	72-119			
1,2-Dichlorobenzene	508.4	10.0	ug/L	501	ND	101	71-117			
1,2-Dibromo-3-chloropropane	513.8	50.0	ug/L	501	ND	102	49-134			
Surrogate: Dibromofluoromethane	498		ug/L	502		99.3	57-128			
Surrogate: Dibromofluoromethane	498		ug/L	502		99.3	75-136			
Surrogate: 1,2-Dichloroethane-d4	497		ug/L	504		98.7	49-135			
Surrogate: 1,2-Dichloroethane-d4	497		ug/L	504		98.7	61-142			
Surrogate: Toluene-d8	508		ug/L	505		101	82-116			
Surrogate: Toluene-d8	508		ug/L	505		101	82-121			
Surrogate: 4-Bromofluorobenzene	494		ug/L	502		98.5	77-114			
Surrogate: 4-Bromofluorobenzene	494		ug/L	502		98.5	80-116			
Matrix Spike Dup (11I1380-MSD1)	Source: 11I1519-01			Prepared: 09/23/25 00:00 Analyzed: 09/23/25 20:46						
Dichlorodifluoromethane	394.5	10.0	ug/L	303	ND	130	58-130	3.82	30	
Chloromethane	349.7	10.0	ug/L	303	ND	115	61-152	2.49	26	
Vinyl Chloride	336.1	10.0	ug/L	302	ND	111	66-149	2.56	23	
Bromomethane	192.4	10.0	ug/L	301	ND	63.9	43-171	1.94	29	
Chloroethane	219.6	10.0	ug/L	303	ND	72.4	69-148	1.42	25	
Trichlorofluoromethane	290.5	10.0	ug/L	303	ND	95.9	62-163	0.344	25	
1,1-Dichloroethylene	504.1	10.0	ug/L	501	ND	101	70-148	3.41	22	
Acetone	940.4	100	ug/L	1000	ND	94.0	45-173	5.87	30	
Methyl Iodide	1085	10.0	ug/L	1000	ND	109	62-167	0.0461	24	
Carbon Disulfide	990.4	10.0	ug/L	1000	ND	99.0	71-163	0.875	22	
Methylene Chloride	455.6	50.0	ug/L	501	ND	90.9	69-140	4.90	19	
Acrylonitrile	878.2	50.0	ug/L	504	ND	174	32-159	1.26	30	M1
trans-1,2-Dichloroethylene	472.4	10.0	ug/L	501	ND	94.3	69-144	1.97	22	
1,1-Dichloroethane	490.7	10.0	ug/L	501	ND	97.9	70-138	1.56	20	
Vinyl Acetate	666.1	50.0	ug/L	500	ND	133	58-142	0.434	24	
cis-1,2-Dichloroethylene	456.8	10.0	ug/L	504	ND	90.7	68-151	0.110	22	
2-Butanone (MEK)	1025	100	ug/L	1000	ND	103	50-160	3.47	23	
Bromochloromethane	481.7	10.0	ug/L	504	ND	95.6	65-143	4.74	22	
Chloroform	468.4	10.0	ug/L	501	ND	93.5	71-143	0.977	21	
1,1,1-Trichloroethane	479.5	10.0	ug/L	501	ND	95.7	63-133	1.14	23	
Carbon Tetrachloride	433.2	10.0	ug/L	501	ND	86.5	63-142	0.300	22	
Benzene	497.5	10.0	ug/L	504	ND	98.6	69-133	0.241	18	
1,2-Dichloroethane	503.9	10.0	ug/L	501	ND	101	63-138	4.37	20	
Trichloroethylene	514.9	10.0	ug/L	501	ND	103	71-133	1.14	23	
1,2-Dichloropropane	501.7	10.0	ug/L	501	ND	100	69-132	2.71	20	
Dibromomethane	482.4	10.0	ug/L	504	ND	95.8	70-147	2.50	22	
Bromodichloromethane	507.0	10.0	ug/L	501	ND	101	67-130	0.0394	21	
cis-1,3-Dichloropropene	544.9	10.0	ug/L	501	ND	109	61-126	0.589	21	
4-Methyl-2-pentanone (MIBK)	1049	50.0	ug/L	1000	ND	105	55-147	0.439	23	
Toluene	485.7	10.0	ug/L	505	ND	96.2	71-133	1.39	19	
trans-1,3-Dichloropropene	548.0	10.0	ug/L	501	ND	109	63-124	0.926	21	

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11I1548

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 11I1380 - EPA 5030B - EPA 8260D										
Matrix Spike Dup (11I1380-MSD1) Source: 11I1519-01 Prepared: 09/23/25 00:00 Analyzed: 09/23/25 20:46										
1,1,2-Trichloroethane	494.4	10.0	ug/L	501	ND	98.7	69-133	0.263	19	
Tetrachloroethylene	538.1	10.0	ug/L	501	ND	107	70-124	4.74	24	
2-Hexanone (MBK)	1012	50.0	ug/L	1000	ND	101	53-141	1.75	24	
Dibromochloromethane	505.9	10.0	ug/L	501	ND	101	74-122	0.944	21	
1,2-Dibromoethane	527.4	10.0	ug/L	502	ND	105	66-127	2.48	23	
Chlorobenzene	496.1	10.0	ug/L	501	ND	99.1	76-116	3.17	21	
1,1,1,2-Tetrachloroethane	515.3	10.0	ug/L	503	ND	102	77-121	2.09	25	
Ethylbenzene	489.8	10.0	ug/L	502	ND	97.6	73-124	2.20	20	
Xylenes, total	1498	20.0	ug/L	1510	ND	99.1	75-123	2.47	20	
Styrene	522.8	10.0	ug/L	504	ND	104	70-120	1.86	23	
Bromoform	571.3	10.0	ug/L	501	ND	114	70-124	1.10	22	
1,2,3-Trichloropropane	531.6	10.0	ug/L	503	ND	106	62-135	3.97	28	
trans-1,4-Dichloro-2-butene	1075	50.0	ug/L	1000	ND	107	50-120	0.392	26	
1,1,2,2-Tetrachloroethane	481.9	10.0	ug/L	501	ND	96.2	63-126	3.18	24	
1,4-Dichlorobenzene	462.3	10.0	ug/L	501	ND	92.2	72-119	2.52	24	
1,2-Dichlorobenzene	500.1	10.0	ug/L	501	ND	99.8	71-117	1.65	24	
1,2-Dibromo-3-chloropropane	542.5	50.0	ug/L	501	ND	108	49-134	5.43	28	
Surrogate: Dibromofluoromethane	487		ug/L	502		97.1	57-128			
Surrogate: Dibromofluoromethane	487		ug/L	502		97.1	75-136			
Surrogate: 1,2-Dichloroethane-d4	495		ug/L	504		98.3	49-135			
Surrogate: 1,2-Dichloroethane-d4	495		ug/L	504		98.3	61-142			
Surrogate: Toluene-d8	514		ug/L	505		102	82-116			
Surrogate: Toluene-d8	514		ug/L	505		102	82-121			
Surrogate: 4-Bromofluorobenzene	499		ug/L	502		99.5	77-114			
Surrogate: 4-Bromofluorobenzene	499		ug/L	502		99.5	80-116			
Batch 11I1442 - EPA 5030B - EPA 8260D										
Blank (11I1442-BLK1) Prepared: 09/24/25 00:00 Analyzed: 09/24/25 10:05										
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							

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CERTIFICATE OF ANALYSIS

111548

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 111442 - EPA 5030B - EPA 8260D										
Blank (111442-BLK1)										
Prepared: 09/24/25 00:00 Analyzed: 09/24/25 10:05										
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							
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	46.8		ug/L	50.2		93.2	57-128			
Surrogate: Dibromofluoromethane	46.8		ug/L	50.2		93.2	75-136			
Surrogate: 1,2-Dichloroethane-d4	48.6		ug/L	50.4		96.4	49-135			
Surrogate: 1,2-Dichloroethane-d4	48.6		ug/L	50.4		96.4	61-142			
Surrogate: Toluene-d8	51.4		ug/L	50.5		102	82-116			
Surrogate: Toluene-d8	51.4		ug/L	50.5		102	82-121			
Surrogate: 4-Bromofluorobenzene	45.7		ug/L	50.2		91.0	77-114			
Surrogate: 4-Bromofluorobenzene	45.7		ug/L	50.2		91.0	80-116			
LCS (111442-BS1)										
Prepared: 09/24/25 00:00 Analyzed: 09/24/25 08:56										
Chloromethane	35.53	1.0	ug/L	30.3		117	63-155			
Vinyl Chloride	34.40	1.0	ug/L	30.2		114	70-154			

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CERTIFICATE OF ANALYSIS

111548

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 111442 - EPA 5030B - EPA 8260D										
LCS (111442-BS1)				Prepared: 09/24/25 00:00 Analyzed: 09/24/25 08:56						
Bromomethane	21.66	1.0	ug/L	30.1		71.9	52-176			
Chloroethane	21.93	1.0	ug/L	30.3		72.3	72-148			
Trichlorofluoromethane	29.07	1.0	ug/L	30.3		95.9	70-152			
1,1-Dichloroethylene	53.10	1.0	ug/L	50.1		106	70-148			
Acetone	85.83	10.0	ug/L	100		85.8	43-172			
Methyl Iodide	114.1	1.0	ug/L	100		114	69-170			
Carbon Disulfide	103.8	1.0	ug/L	100		104	72-162			
Methylene Chloride	46.47	5.0	ug/L	50.1		92.7	68-142			
Acrylonitrile	89.73	5.0	ug/L	50.4		178	33-163			Q2
trans-1,2-Dichloroethylene	47.93	1.0	ug/L	50.1		95.7	66-148			
1,1-Dichloroethane	49.99	1.0	ug/L	50.1		99.8	66-143			
Vinyl Acetate	64.32	5.0	ug/L	50.0		129	43-153			
cis-1,2-Dichloroethylene	46.35	1.0	ug/L	50.4		92.1	71-149			
2-Butanone (MEK)	103.9	10.0	ug/L	100		104	52-159			
Bromochloromethane	49.28	1.0	ug/L	50.4		97.8	69-143			
Chloroform	47.38	1.0	ug/L	50.1		94.6	69-144			
1,1,1-Trichloroethane	48.40	1.0	ug/L	50.1		96.6	62-129			
Carbon Tetrachloride	45.40	1.0	ug/L	50.1		90.6	63-141			
Benzene	50.71	1.0	ug/L	50.4		101	71-134			
1,2-Dichloroethane	52.22	1.0	ug/L	50.1		104	72-132			
Trichloroethylene	53.81	1.0	ug/L	50.1		107	71-135			
1,2-Dichloropropane	51.26	1.0	ug/L	50.1		102	69-136			
Dibromomethane	48.76	1.0	ug/L	50.4		96.8	73-147			
Bromodichloromethane	53.12	1.0	ug/L	50.1		106	68-129			
cis-1,3-Dichloropropene	55.23	1.0	ug/L	50.1		110	65-134			
4-Methyl-2-pentanone (MIBK)	103.5	5.0	ug/L	100		104	58-147			
Toluene	50.23	1.0	ug/L	50.5		99.5	72-133			
trans-1,3-Dichloropropene	58.15	1.0	ug/L	50.1		116	67-130			
1,1,2-Trichloroethane	49.39	1.0	ug/L	50.1		98.6	69-135			
Tetrachloroethylene	57.65	1.0	ug/L	50.1		115	69-130			
2-Hexanone (MBK)	106.0	5.0	ug/L	100		106	55-144			
Dibromochloromethane	54.41	1.0	ug/L	50.1		109	73-127			
1,2-Dibromoethane	54.43	1.0	ug/L	50.2		108	67-132			
Chlorobenzene	52.59	1.0	ug/L	50.1		105	72-123			
1,1,1,2-Tetrachloroethane	53.59	1.0	ug/L	50.3		106	73-127			
Ethylbenzene	51.71	1.0	ug/L	50.2		103	71-127			
Xylenes, total	155.1	2.0	ug/L	151		103	74-127			
Styrene	53.68	1.0	ug/L	50.4		107	66-126			
Bromoform	59.92	1.0	ug/L	50.1		120	68-130			
1,2,3-Trichloropropane	54.06	1.0	ug/L	50.3		107	63-136			
trans-1,4-Dichloro-2-butene	115.8	5.0	ug/L	100		116	54-134			
1,1,2,2-Tetrachloroethane	48.17	1.0	ug/L	50.1		96.1	61-131			
1,4-Dichlorobenzene	48.48	1.0	ug/L	50.1		96.7	70-129			

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CERTIFICATE OF ANALYSIS

111548

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch 111442 - EPA 5030B - EPA 8260D									
LCS (111442-BS1) Prepared: 09/24/25 00:00 Analyzed: 09/24/25 08:56									
1,2-Dichlorobenzene	51.28	1.0	ug/L	50.1		102 69-126			
1,2-Dibromo-3-chloropropane	57.73	5.0	ug/L	50.1		115 50-143			
Surrogate: Dibromofluoromethane	48.3		ug/L	50.2		96.1 57-128			
Surrogate: Dibromofluoromethane	48.3		ug/L	50.2		96.1 75-136			
Surrogate: 1,2-Dichloroethane-d4	49.3		ug/L	50.4		97.9 49-135			
Surrogate: 1,2-Dichloroethane-d4	49.3		ug/L	50.4		97.9 61-142			
Surrogate: Toluene-d8	50.9		ug/L	50.5		101 82-116			
Surrogate: Toluene-d8	50.9		ug/L	50.5		101 82-121			
Surrogate: 4-Bromofluorobenzene	51.5		ug/L	50.2		103 77-114			
Surrogate: 4-Bromofluorobenzene	51.5		ug/L	50.2		103 80-116			
LCS Dup (111442-BSD1) Prepared: 09/24/25 00:00 Analyzed: 09/24/25 09:19									
Chloromethane	37.69	1.0	ug/L	30.3		124 63-155	5.90	24	
Vinyl Chloride	37.69	1.0	ug/L	30.2		125 70-154	9.13	25	
Bromomethane	22.90	1.0	ug/L	30.1		76.0 52-176	5.57	27	
Chloroethane	23.64	1.0	ug/L	30.3		78.0 72-148	7.50	25	
Trichlorofluoromethane	30.99	1.0	ug/L	30.3		102 70-152	6.39	26	
1,1-Dichloroethylene	56.56	1.0	ug/L	50.1		113 70-148	6.31	24	
Acetone	88.15	10.0	ug/L	100		88.2 43-172	2.67	30	
Methyl Iodide	116.4	1.0	ug/L	100		116 69-170	1.97	30	
Carbon Disulfide	108.7	1.0	ug/L	100		109 72-162	4.64	24	
Methylene Chloride	48.24	5.0	ug/L	50.1		96.3 68-142	3.74	21	
Acrylonitrile	90.91	5.0	ug/L	50.4		181 33-163	1.31	28	Q2
trans-1,2-Dichloroethylene	50.95	1.0	ug/L	50.1		102 66-148	6.11	27	
1,1-Dichloroethane	51.60	1.0	ug/L	50.1		103 66-143	3.17	24	
Vinyl Acetate	62.80	5.0	ug/L	50.0		126 43-153	2.39	30	
cis-1,2-Dichloroethylene	48.72	1.0	ug/L	50.4		96.8 71-149	4.99	26	
2-Butanone (MEK)	106.2	10.0	ug/L	100		106 52-159	2.13	27	
Bromochloromethane	51.54	1.0	ug/L	50.4		102 69-143	4.48	23	
Chloroform	50.35	1.0	ug/L	50.1		101 69-144	6.08	23	
1,1,1-Trichloroethane	51.55	1.0	ug/L	50.1		103 62-129	6.30	24	
Carbon Tetrachloride	47.52	1.0	ug/L	50.1		94.9 63-141	4.56	25	
Benzene	53.28	1.0	ug/L	50.4		106 71-134	4.94	24	
1,2-Dichloroethane	53.14	1.0	ug/L	50.1		106 72-132	1.75	24	
Trichloroethylene	56.71	1.0	ug/L	50.1		113 71-135	5.25	24	
1,2-Dichloropropane	53.71	1.0	ug/L	50.1		107 69-136	4.67	24	
Dibromomethane	50.10	1.0	ug/L	50.4		99.5 73-147	2.71	25	
Bromodichloromethane	51.62	1.0	ug/L	50.1		103 68-129	2.86	22	
cis-1,3-Dichloropropene	57.83	1.0	ug/L	50.1		115 65-134	4.60	23	
4-Methyl-2-pentanone (MIBK)	109.8	5.0	ug/L	100		110 58-147	5.92	27	
Toluene	51.07	1.0	ug/L	50.5		101 72-133	1.66	24	
trans-1,3-Dichloropropene	59.71	1.0	ug/L	50.1		119 67-130	2.65	24	
1,1,2-Trichloroethane	51.14	1.0	ug/L	50.1		102 69-135	3.48	23	
Tetrachloroethylene	59.99	1.0	ug/L	50.1		120 69-130	3.98	25	

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Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 111442 - EPA 5030B - EPA 8260D										
LCS Dup (111442-BSD1)				Prepared: 09/24/25 00:00 Analyzed: 09/24/25 09:19						
2-Hexanone (MBK)	110.2	5.0	ug/L	100		110	55-144	3.94	25	
Dibromochloromethane	55.73	1.0	ug/L	50.1		111	73-127	2.40	22	
1,2-Dibromoethane	56.00	1.0	ug/L	50.2		111	67-132	2.84	24	
Chlorobenzene	54.36	1.0	ug/L	50.1		109	72-123	3.31	23	
1,1,1,2-Tetrachloroethane	56.75	1.0	ug/L	50.3		113	73-127	5.73	24	
Ethylbenzene	54.55	1.0	ug/L	50.2		109	71-127	5.35	26	
Xylenes, total	164.1	2.0	ug/L	151		109	74-127	5.66	25	
Styrene	57.09	1.0	ug/L	50.4		113	66-126	6.16	23	
Bromoform	62.52	1.0	ug/L	50.1		125	68-130	4.25	23	
1,2,3-Trichloropropane	58.46	1.0	ug/L	50.3		116	63-136	7.82	24	
trans-1,4-Dichloro-2-butene	119.9	5.0	ug/L	100		120	54-134	3.49	27	
1,1,2,2-Tetrachloroethane	49.81	1.0	ug/L	50.1		99.4	61-131	3.35	29	
1,4-Dichlorobenzene	49.26	1.0	ug/L	50.1		98.3	70-129	1.60	24	
1,2-Dichlorobenzene	53.68	1.0	ug/L	50.1		107	69-126	4.57	26	
1,2-Dibromo-3-chloropropane	55.77	5.0	ug/L	50.1		111	50-143	3.45	30	
Surrogate: Dibromofluoromethane	48.4		ug/L	50.2		96.3	57-128			
Surrogate: Dibromofluoromethane	48.4		ug/L	50.2		96.3	75-136			
Surrogate: 1,2-Dichloroethane-d4	50.6		ug/L	50.4		101	49-135			
Surrogate: 1,2-Dichloroethane-d4	50.6		ug/L	50.4		101	61-142			
Surrogate: Toluene-d8	51.0		ug/L	50.5		101	82-116			
Surrogate: Toluene-d8	51.0		ug/L	50.5		101	82-121			
Surrogate: 4-Bromofluorobenzene	51.4		ug/L	50.2		102	77-114			
Surrogate: 4-Bromofluorobenzene	51.4		ug/L	50.2		102	80-116			
Matrix Spike (111442-MS1)				Source: 3110106-02		Prepared: 09/24/25 00:00 Analyzed: 09/24/25 17:23				
Chloromethane	389.8	10.0	ug/L	303	ND	129	61-152			
Vinyl Chloride	368.4	10.0	ug/L	302	ND	122	66-149			
Bromomethane	235.0	10.0	ug/L	301	ND	78.0	43-171			
Chloroethane	235.1	10.0	ug/L	303	ND	77.5	69-148			
Trichlorofluoromethane	323.7	10.0	ug/L	303	ND	107	62-163			
1,1-Dichloroethylene	525.6	10.0	ug/L	501	ND	105	70-148			
Acetone	873.4	100	ug/L	1000	ND	87.3	45-173			
Methyl Iodide	1005	10.0	ug/L	1000	ND	101	62-167			
Carbon Disulfide	1037	10.0	ug/L	1000	ND	104	71-163			
Methylene Chloride	493.2	50.0	ug/L	501	ND	98.4	69-140			
Acrylonitrile	887.2	50.0	ug/L	504	ND	176	32-159			Q2
trans-1,2-Dichloroethylene	488.5	10.0	ug/L	501	ND	97.5	69-144			
1,1-Dichloroethane	504.4	10.0	ug/L	501	ND	101	70-138			
Vinyl Acetate	640.5	50.0	ug/L	500	ND	128	58-142			
cis-1,2-Dichloroethylene	472.9	10.0	ug/L	504	ND	93.9	68-151			
2-Butanone (MEK)	973.3	100	ug/L	1000	ND	97.3	50-160			
Bromochloromethane	507.1	10.0	ug/L	504	ND	101	65-143			
Chloroform	485.5	10.0	ug/L	501	ND	96.9	71-143			
1,1,1-Trichloroethane	492.0	10.0	ug/L	501	ND	98.2	63-133			

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CERTIFICATE OF ANALYSIS

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Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 111442 - EPA 5030B - EPA 8260D										
Matrix Spike (111442-MS1)	Source: 3110106-02			Prepared: 09/24/25 00:00 Analyzed: 09/24/25 17:23						
Carbon Tetrachloride	461.6	10.0	ug/L	501	ND	92.2	63-142			
Benzene	509.0	10.0	ug/L	504	ND	101	69-133			
1,2-Dichloroethane	503.9	10.0	ug/L	501	ND	101	63-138			
Trichloroethylene	529.0	10.0	ug/L	501	ND	106	71-133			
1,2-Dichloropropane	528.2	10.0	ug/L	501	ND	105	69-132			
Dibromomethane	483.9	10.0	ug/L	504	ND	96.1	70-147			
Bromodichloromethane	509.6	10.0	ug/L	501	ND	102	67-130			
cis-1,3-Dichloropropene	535.1	10.0	ug/L	501	ND	107	61-126			
4-Methyl-2-pentanone (MIBK)	1060	50.0	ug/L	1000	ND	106	55-147			
Toluene	496.8	10.0	ug/L	505	ND	98.4	71-133			
trans-1,3-Dichloropropene	545.9	10.0	ug/L	501	ND	109	63-124			
1,1,2-Trichloroethane	489.2	10.0	ug/L	501	ND	97.7	69-133			
Tetrachloroethylene	535.9	10.0	ug/L	501	ND	107	70-124			
2-Hexanone (MBK)	1021	50.0	ug/L	1000	ND	102	53-141			
Dibromochloromethane	493.8	10.0	ug/L	501	ND	98.6	74-122			
1,2-Dibromoethane	518.6	10.0	ug/L	502	ND	103	66-127			
Chlorobenzene	516.8	10.0	ug/L	501	ND	103	76-116			
1,1,1,2-Tetrachloroethane	531.5	10.0	ug/L	503	ND	106	77-121			
Ethylbenzene	524.9	10.0	ug/L	502	ND	105	73-124			
Xylenes, total	1552	20.0	ug/L	1510	ND	103	75-123			
Styrene	544.5	10.0	ug/L	504	ND	108	70-120			
Bromoform	571.1	10.0	ug/L	501	ND	114	70-124			
1,2,3-Trichloropropane	538.3	10.0	ug/L	503	ND	107	62-135			
trans-1,4-Dichloro-2-butene	1174	50.0	ug/L	1000	ND	117	50-120			
1,1,2,2-Tetrachloroethane	493.1	10.0	ug/L	501	ND	98.4	63-126			
1,4-Dichlorobenzene	486.2	10.0	ug/L	501	ND	97.0	72-119			
1,2-Dichlorobenzene	518.0	10.0	ug/L	501	ND	103	71-117			
1,2-Dibromo-3-chloropropane	549.3	50.0	ug/L	501	ND	110	49-134			
Surrogate: Dibromofluoromethane	484		ug/L	502		96.5	57-128			
Surrogate: Dibromofluoromethane	484		ug/L	502		96.5	75-136			
Surrogate: 1,2-Dichloroethane-d4	504		ug/L	504		100	49-135			
Surrogate: 1,2-Dichloroethane-d4	504		ug/L	504		100	61-142			
Surrogate: Toluene-d8	511		ug/L	505		101	82-116			
Surrogate: Toluene-d8	511		ug/L	505		101	82-121			
Surrogate: 4-Bromofluorobenzene	508		ug/L	502		101	77-114			
Surrogate: 4-Bromofluorobenzene	508		ug/L	502		101	80-116			
Matrix Spike Dup (111442-MSD1)	Source: 3110106-02			Prepared: 09/24/25 00:00 Analyzed: 09/24/25 17:45						
Chloromethane	369.5	10.0	ug/L	303	ND	122	61-152	5.35	26	
Vinyl Chloride	343.3	10.0	ug/L	302	ND	113	66-149	7.05	23	
Bromomethane	222.4	10.0	ug/L	301	ND	73.8	43-171	5.51	29	
Chloroethane	217.2	10.0	ug/L	303	ND	71.6	69-148	7.92	25	
Trichlorofluoromethane	295.7	10.0	ug/L	303	ND	97.6	62-163	9.04	25	
1,1-Dichloroethylene	504.6	10.0	ug/L	501	ND	101	70-148	4.08	22	

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CERTIFICATE OF ANALYSIS

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Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 111442 - EPA 5030B - EPA 8260D										
Matrix Spike Dup (111442-MSD1) Source: 3110106-02 Prepared: 09/24/25 00:00 Analyzed: 09/24/25 17:45										
Acetone	890.1	100	ug/L	1000	ND	89.0	45-173	1.89	30	
Methyl Iodide	980.9	10.0	ug/L	1000	ND	98.1	62-167	2.47	24	
Carbon Disulfide	968.7	10.0	ug/L	1000	ND	96.9	71-163	6.84	22	
Methylene Chloride	473.2	50.0	ug/L	501	ND	94.4	69-140	4.14	19	
Acrylonitrile	895.4	50.0	ug/L	504	ND	178	32-159	0.920	30	Q2
trans-1,2-Dichloroethylene	457.8	10.0	ug/L	501	ND	91.4	69-144	6.49	22	
1,1-Dichloroethane	466.2	10.0	ug/L	501	ND	93.0	70-138	7.87	20	
Vinyl Acetate	658.6	50.0	ug/L	500	ND	132	58-142	2.79	24	
cis-1,2-Dichloroethylene	441.9	10.0	ug/L	504	ND	87.8	68-151	6.78	22	
2-Butanone (MEK)	1019	100	ug/L	1000	ND	102	50-160	4.57	23	
Bromochloromethane	475.2	10.0	ug/L	504	ND	94.3	65-143	6.49	22	
Chloroform	463.7	10.0	ug/L	501	ND	92.6	71-143	4.59	21	
1,1,1-Trichloroethane	465.0	10.0	ug/L	501	ND	92.8	63-133	5.64	23	
Carbon Tetrachloride	445.4	10.0	ug/L	501	ND	88.9	63-142	3.57	22	
Benzene	495.5	10.0	ug/L	504	ND	98.2	69-133	2.69	18	
1,2-Dichloroethane	519.3	10.0	ug/L	501	ND	104	63-138	3.01	20	
Trichloroethylene	519.8	10.0	ug/L	501	ND	104	71-133	1.75	23	
1,2-Dichloropropane	525.3	10.0	ug/L	501	ND	105	69-132	0.551	20	
Dibromomethane	487.4	10.0	ug/L	504	ND	96.8	70-147	0.721	22	
Bromodichloromethane	518.4	10.0	ug/L	501	ND	103	67-130	1.71	21	
cis-1,3-Dichloropropene	563.0	10.0	ug/L	501	ND	112	61-126	5.08	21	
4-Methyl-2-pentanone (MIBK)	1045	50.0	ug/L	1000	ND	105	55-147	1.42	23	
Toluene	488.3	10.0	ug/L	505	ND	96.7	71-133	1.73	19	
trans-1,3-Dichloropropene	565.6	10.0	ug/L	501	ND	113	63-124	3.54	21	
1,1,2-Trichloroethane	495.5	10.0	ug/L	501	ND	98.9	69-133	1.28	19	
Tetrachloroethylene	545.6	10.0	ug/L	501	ND	109	70-124	1.79	24	
2-Hexanone (MBK)	1018	50.0	ug/L	1000	ND	102	53-141	0.373	24	
Dibromochloromethane	522.7	10.0	ug/L	501	ND	104	74-122	5.69	21	
1,2-Dibromoethane	532.4	10.0	ug/L	502	ND	106	66-127	2.63	23	
Chlorobenzene	517.5	10.0	ug/L	501	ND	103	76-116	0.135	21	
1,1,1,2-Tetrachloroethane	538.5	10.0	ug/L	503	ND	107	77-121	1.31	25	
Ethylbenzene	514.3	10.0	ug/L	502	ND	103	73-124	2.04	20	
Xylenes, total	1552	20.0	ug/L	1510	ND	103	75-123	0.0322	20	
Styrene	542.8	10.0	ug/L	504	ND	108	70-120	0.313	23	
Bromoform	581.7	10.0	ug/L	501	ND	116	70-124	1.84	22	
1,2,3-Trichloropropane	558.2	10.0	ug/L	503	ND	111	62-135	3.63	28	
trans-1,4-Dichloro-2-butene	1168	50.0	ug/L	1000	ND	117	50-120	0.495	26	
1,1,2,2-Tetrachloroethane	490.8	10.0	ug/L	501	ND	98.0	63-126	0.468	24	
1,4-Dichlorobenzene	477.3	10.0	ug/L	501	ND	95.2	72-119	1.85	24	
1,2-Dichlorobenzene	508.4	10.0	ug/L	501	ND	101	71-117	1.87	24	
1,2-Dibromo-3-chloropropane	542.3	50.0	ug/L	501	ND	108	49-134	1.28	28	
Surrogate: Dibromofluoromethane	489		ug/L	502		97.4	57-128			

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Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 111442 - EPA 5030B - EPA 8260D										
Matrix Spike Dup (111442-MSD1)		Source: 3110106-02		Prepared: 09/24/25 00:00 Analyzed: 09/24/25 17:45						
Surrogate: Dibromofluoromethane	489		ug/L	502		97.4	75-136			
Surrogate: 1,2-Dichloroethane-d4	484		ug/L	504		96.1	49-135			
Surrogate: 1,2-Dichloroethane-d4	484		ug/L	504		96.1	61-142			
Surrogate: Toluene-d8	518		ug/L	505		103	82-116			
Surrogate: Toluene-d8	518		ug/L	505		103	82-121			
Surrogate: 4-Bromofluorobenzene	525		ug/L	502		105	77-114			
Surrogate: 4-Bromofluorobenzene	525		ug/L	502		105	80-116			

Determination of Total Metals	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 111158 - EPA 3005A Total Recoverable Metals - EPA 6020A										
Blank (111158-BLK1)		Prepared: 09/19/25 07:24 Analyzed: 09/20/25 02:40								
Antimony, total	<0.0010	0.0010	mg/L							
Arsenic, total	<0.0020	0.0020	mg/L							
Barium, total	<0.0010	0.0010	mg/L							
Beryllium, total	<0.0005	0.0005	mg/L							
Cadmium, total	<0.0002	0.0002	mg/L							
Chromium, total	<0.0010	0.0010	mg/L							
Cobalt, total	<0.0005	0.0005	mg/L							
Copper, total	<0.0050	0.0050	mg/L							
Lead, total	<0.0010	0.0010	mg/L							
Nickel, total	<0.0050	0.0050	mg/L							
Selenium, total	<0.0020	0.0020	mg/L							
Silver, total	<0.0050	0.0050	mg/L							
Thallium, total	<0.0005	0.0005	mg/L							
Vanadium, total	<0.0020	0.0020	mg/L							
Zinc, total	<0.0050	0.0050	mg/L							B

LCS (111158-BS1)		Prepared: 09/19/25 07:24 Analyzed: 09/20/25 02:43								
Antimony, total	0.0990	0.0010	mg/L	0.100		99.0	80-120			
Arsenic, total	0.106	0.0020	mg/L	0.100		106	80-120			
Barium, total	0.111	0.0010	mg/L	0.100		111	80-120			
Beryllium, total	0.0935	0.0005	mg/L	0.100		93.5	80-120			
Cadmium, total	0.102	0.0002	mg/L	0.100		102	80-120			
Chromium, total	0.0975	0.0010	mg/L	0.100		97.5	80-120			
Cobalt, total	0.0987	0.0005	mg/L	0.100		98.7	80-120			
Copper, total	0.0988	0.0050	mg/L	0.100		98.8	80-120			
Lead, total	0.104	0.0010	mg/L	0.100		104	80-120			
Nickel, total	0.0981	0.0050	mg/L	0.100		98.1	80-120			
Selenium, total	0.1063	0.0020	mg/L	0.100		106	80-120			
Silver, total	0.105	0.0050	mg/L	0.100		105	80-120			
Thallium, total	0.102	0.0005	mg/L	0.100		102	80-120			
Vanadium, total	0.0973	0.0020	mg/L	0.100		97.3	80-120			



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Determination of Total Metals	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 11I1158 - EPA 3005A Total Recoverable Metals - EPA 6020A										
LCS (11I1158-BS1)				Prepared: 09/19/25 07:24 Analyzed: 09/20/25 02:43						
Zinc, total	0.106	0.0050	mg/L	0.100		106	80-120			
Matrix Spike (11I1158-MS1)				Source: 11I0273-04RE1 Prepared: 09/19/25 07:24 Analyzed: 09/20/25 02:53						
Antimony, total	0.102	0.0010	mg/L	0.100	ND	102	75-125			
Arsenic, total	0.112	0.0020	mg/L	0.100	0.0010	111	75-125			
Barium, total	0.424	0.0010	mg/L	0.100	0.329	94.9	75-125			
Beryllium, total	0.0991	0.0005	mg/L	0.100	ND	99.1	75-125			
Cadmium, total	0.104	0.0002	mg/L	0.100	0.0004	103	75-125			
Chromium, total	0.0994	0.0010	mg/L	0.100	0.0007	98.6	75-125			
Cobalt, total	0.143	0.0005	mg/L	0.100	0.0393	104	75-125			
Copper, total	0.0994	0.0050	mg/L	0.100	0.0053	94.1	75-125			
Lead, total	0.104	0.0010	mg/L	0.100	ND	104	75-125			
Nickel, total	0.114	0.0050	mg/L	0.100	0.0193	95.1	75-125			
Selenium, total	0.1101	0.0020	mg/L	0.100	ND	110	75-125			
Silver, total	0.108	0.0050	mg/L	0.100	ND	108	75-125			
Thallium, total	0.104	0.0005	mg/L	0.100	0.00009	104	75-125			
Vanadium, total	0.105	0.0020	mg/L	0.100	0.0005	105	75-125			
Zinc, total	0.115	0.0050	mg/L	0.100	0.0150	99.8	75-125			
Matrix Spike Dup (11I1158-MSD1)				Source: 11I0273-04RE1 Prepared: 09/19/25 07:24 Analyzed: 09/20/25 02:56						
Antimony, total	0.102	0.0010	mg/L	0.100	ND	102	75-125	0.295	20	
Arsenic, total	0.111	0.0020	mg/L	0.100	0.0010	110	75-125	0.105	20	
Barium, total	0.433	0.0010	mg/L	0.100	0.329	104	75-125	2.20	20	
Beryllium, total	0.100	0.0005	mg/L	0.100	ND	100	75-125	1.01	20	
Cadmium, total	0.105	0.0002	mg/L	0.100	0.0004	105	75-125	1.42	20	
Chromium, total	0.0993	0.0010	mg/L	0.100	0.0007	98.5	75-125	0.101	20	
Cobalt, total	0.142	0.0005	mg/L	0.100	0.0393	103	75-125	0.465	20	
Copper, total	0.101	0.0050	mg/L	0.100	0.0053	95.9	75-125	1.82	20	
Lead, total	0.106	0.0010	mg/L	0.100	ND	106	75-125	2.16	20	
Nickel, total	0.116	0.0050	mg/L	0.100	0.0193	97.2	75-125	1.86	20	
Selenium, total	0.1084	0.0020	mg/L	0.100	ND	108	75-125	1.52	20	
Silver, total	0.108	0.0050	mg/L	0.100	ND	108	75-125	0.261	20	
Thallium, total	0.113	0.0005	mg/L	0.100	0.00009	113	75-125	8.40	20	
Vanadium, total	0.107	0.0020	mg/L	0.100	0.0005	107	75-125	2.23	20	
Zinc, total	0.118	0.0050	mg/L	0.100	0.0150	103	75-125	2.47	20	
Post Spike (11I1158-PS1)				Source: 11I0273-04RE1 Prepared: 09/19/25 07:24 Analyzed: 09/20/25 02:58						
Antimony, total	0.0202		mg/L	0.0200	0.0002	100	80-120			
Arsenic, total	0.0228		mg/L	0.0200	0.0010	109	80-120			
Barium, total	0.338		mg/L	0.0200	0.322	79.7	80-120			M2
Beryllium, total	0.0196		mg/L	0.0200-0.000001		98.0	80-120			
Cadmium, total	0.0201		mg/L	0.0200	0.0004	98.7	80-120			
Chromium, total	0.0204		mg/L	0.0200	0.0007	98.4	80-120			
Cobalt, total	0.0577		mg/L	0.0200	0.0385	96.4	80-120			
Copper, total	0.0238		mg/L	0.0200	0.0052	93.4	80-120			
Lead, total	0.0206		mg/L	0.0200	0.00009	103	80-120			

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111548

Determination of Total Metals	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 111158 - EPA 3005A Total Recoverable Metals - EPA 6020A										
Post Spike (111158-PS1) Source: 1110273-04RE1 Prepared: 09/19/25 07:24 Analyzed: 09/20/25 02:58										
Nickel, total	0.0380		mg/L	0.0200	0.0189	95.7	80-120			
Selenium, total	0.0212		mg/L	0.0200	-0.0002	106	80-120			
Silver, total	0.0217		mg/L	0.0200	0.0001	108	80-120			
Thallium, total	0.0211		mg/L	0.0200	0.00009	105	80-120			
Vanadium, total	0.0203		mg/L	0.0200	0.0005	98.7	80-120			
Zinc, total	0.0346		mg/L	0.0200	0.0147	99.7	80-120			

Definitions

B:	The target analyte was detected in the blank at or above the method acceptance criteria.
M1:	Matrix spike recovery is above acceptance limits.
M2:	Matrix spike recovery is below acceptance limits.
Q2:	LCS recovery is above acceptance limits.
Q3:	LCS recovery is below acceptance limits. The reported value is estimated.
RL:	Reporting Limit
RPD:	Relative Percent Difference

Cooler Receipt Log

Cooler ID: Default Cooler Temp: 0.1°C

Cooler Inspection Checklist

Custody Seals	No	Containers Intact	Yes
COC/Labels Agree	Yes	Preservation Confirmed	Yes
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
Customer Relationship Specialist
heather.murphy@microbac.com
09/29/25 16:16

CHAIN OF CUSTODY RECORD



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Newton, IA 50208
Phone: 641-792-8451

Page 1 of 2
Printed: 8/27/2025 2:22:33PM

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SITE INFORMATION

Sampler: JCH

Project: Tama County - New Regs
6029

SPECIAL INSTRUCTIONS

None

Turn Around Time

☒ Standard ☐ RUSH, need by ___/___/___

REPORT TO

Todd Whipple
HLW Engineering
204 West Broad St
Story City, IA 50248

INVOICE TO

Dave Sherwood
Tama County Landfill Commission
PO Box 31
Toledo, IA 52342



1 I I 1 5 4 8

HLW Engineering
PM: Heather Murphy

Temperature: 0.1 °C Vice

Number	Sample Identification / Client ID	Matrix	Sample Type	Date	Time	# Containers	Analyses	Lab Sample Number
01-001	MW-20(up)	Aqueous	GRAB	9/17/25	9:34	7	Indfil-app1-metals-6020dfill-app1-voc-group	01
02-001	MW-26(up)	Aqueous	GRAB	9/17/25	9:58	7	Indfil-app1-metals-6020dfill-app1-voc-group	02
03-001	MW-37(up)	Aqueous	GRAB	9/17/25	9:44	7	Indfil-app1-metals-6020dfill-app1-voc-group	03
04-001	MW-33(up)	Aqueous	GRAB	9/17/25	10:12	7	Indfil-app1-metals-6020dfill-app1-voc-group	04
05-001	MW-3A	Aqueous	GRAB	9/17/25	11:56	7	Indfil-app1-metals-6020dfill-app1-voc-group	05
06-001	MW-8	Aqueous	GRAB	9/17/25	10:24	7	Indfil-app1-metals-6020dfill-app1-voc-group	06
07-001	MW-10	Aqueous	GRAB	9/17/25	10:39	7	Indfil-app1-metals-6020dfill-app1-voc-group	07
08-001	MW-11	Aqueous	GRAB	9/17/25	10:43	1	co-t-6020	07
09-001	MW-27	Aqueous	GRAB	9/17/25	11:00	7	Indfil-app1-metals-6020dfill-app1-voc-group	08
10-001	MW-34	Aqueous	GRAB	9/17/25	11:21	7	Indfil-app1-metals-6020dfill-app1-voc-group	09

Relinquished By JCH Date/Time 9/17/25 14:52

Received By _____ Date/Time _____

Relinquished By _____ Date/Time _____

Received for Lab By Heather Murphy Date/Time 9-18-25 10:30

Remarks:

CHAIN OF CUSTODY RECORD



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Newton, IA 50208
Phone: 641-792-8451

Page 2 of 2

Printed: 8/27/2025 2:22:33PM

Page 44 of 44

SITE INFORMATION

Sampler: LAHProject: Tama County - New Regs
6029

SPECIAL INSTRUCTIONS

None

Turn Around Time

☒ Standard ☐ RUSH, need by ___/___/___

REPORT TO

Todd Whipple
HLW Engineering
204 West Broad St
Story City, IA 50248

INVOICE TO

Dave Sherwood
Tama County Landfill Commission
PO Box 31
Toledo, IA 52342HLW Engineering
PM: Heather MurphyTemperature: 0.1 °C ✓

Number	Sample Identification / Client ID	Matrix	Sample Type	Date	Time	# Containers	Analyses	Lab Sample Number
11-001	MW-35	Aqueous	GRAB	9/17/25	12:07	7	Indfil-app1-metals-6020dfill-app1-voc-group 8260@dichlorodifluorome thane	10
12-001	MW-36	Aqueous	GRAB	9/17/25	12:19	7	Indfil-app1-metals-6020dfill-app1-voc-group	11
13-001	SW-3 - DRY - NO SAMPLE	Aqueous	GRAB				Indfil-app1-metals-6020dfill-app1-voc-group	12
14-001	Duplicate	Aqueous	GRAB	9/17/25	10:39	1	Indfil-app1-metals-6020	13

SCOPE 9/17/25 14:52
Relinquished By _____ Date/Time _____

Relinquished By _____ Date/Time _____
Dave Sherwood 9-18-25 10:30
Received for Lab By _____ Date/Time _____

Remarks:

Received By _____ Date/Time _____

Appendix E

Summary of Turbidity Measurements

Tama County Sanitary Landfill

Field Turbidity Over Time

No-Purge Sampling

	9/15/14	1/14/15	3/6/15	6/16/15	8/24/15	3/1/16	9/9/16	10/31/16	3/22/17	6/7/17
<u>Well</u>	<u>NTU</u>	<u>NTU</u>	<u>NTU</u>	<u>NTU</u>	<u>NTU</u>	<u>NTU</u>	<u>NTU</u>	<u>NTU</u>	<u>NTU</u>	<u>NTU</u>
3A	2.35		11.89		0.64	3.47	5.17	1.53	0.6	
8B	3.59		12.54		0.83	4.92	1.92	3.12	1.07	
10	38.7		3.51		0.55	5.45	4.23		26.7	
20	1.77	1.31	1.34	0.66	0.37	2.74	0.9		0.5	
26	1.2	1.39	0.94	0.5	0.1	2.10	2.62		0.97	
27	1.63		2.16		0.3	1.54	1.15		0.7	
33	2.97		0.12		9.36	1.86	11		1.1	0.31
34	2.01		0.54		0.34	18.3	5.64		1.61	
35	5.27		0.26		0.29	1.74	1.25		0.72	
36	1.25	1.09	0.13		0.26	0.82	1.36		0.78	
37	2.28	1.36	0.72	1.67	0.2	1.55	1.41		2.48	
PZ-11								11.2		
SW-3	2.16				0.26	1.17			0.61	
Max	38.70	1.39	12.54	1.67	9.36	18.30	11.00	11.20	26.70	0.31
Min	1.20	1.09	0.12	0.50	0.10	0.82	0.90	1.53	0.50	0.31
Median	2.22	1.34	0.94	0.66	0.32	1.98	1.92	3.12	0.88	0.31
Average	5.43	1.29	3.10	0.94	1.13	3.81	3.33	5.28	3.15	0.31

Tama Co

Field Turbic

No-Purge

	8/24/17	11/15/17	2/26/18	8/29/18	3/18/19	9/10/19	3/25/20	9/4/20	3/2/21	9/2/21
<u>Well</u>	<u>NTU</u>	<u>NTU</u>	<u>NTU</u>	<u>NTU</u>	<u>NTU</u>	<u>NTU</u>	<u>NTU</u>	<u>NTU</u>	<u>NTU</u>	<u>NTU</u>
3A	9.84	17.3	17.1	1.35	1.11	1.94	0.72	1.34	1.24	2.41
8B	6.22		6.8	2.86	0.55	0.83	0.43	2	9.88	1.77
10	1.98		27.7	2.7	38.5	1.14	10.7	8.89	7.03	2.45
20	1.65		3.6	1.23	1.16	0.85	1.5	1.54	0.92	2.79
26	0.96		1.13	0.61	0.36	0.56	0.61	0.8	0.29	1.88
27	1.08		0.56	1.5	0.36	0.94	0.22	0.79	0.98	1.74
33	1.19		0.77	0.98	0.38	0.66	2.53	0.82	0.97	1.91
34	11	5.45	1.27	0.87	93.6	2.65	0.53	1.67	0.92	6.3
35	6.41		0.66	1.26	0.43	1.8	0.91	0.91	1.51	2.54
36	2.14		0.47	0.33	0.67	0.93	0.8	0.5	0.51	1.65
37	2.7		2.61	0.94	0.59	0.74	0.84	0.89	0.49	1.73
PZ-11	1.53		38.4	3.2	2.77	34.49	62.5	1.16		1.93
SW-3					2.61		0.87			
Max	11.00	17.30	38.40	3.20	93.60	34.49	62.50	8.89	9.88	6.30
Min	0.96	5.45	0.47	0.33	0.36	0.56	0.22	0.50	0.29	1.65
Median	2.06	11.38	1.94	1.25	0.67	0.94	0.84	1.04	0.97	1.92
Average	3.89	11.38	8.42	1.49	11.01	3.96	6.40	1.78	2.25	2.43

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Field Turbic

No-Purge

	3/2/22	8/29/22	3/23/23	9/25/23	3/5/24	9/30/24	3/6/25	9/17/25	Max	Min	Ave	Std Dev
<u>Well</u>	<u>NTU</u>	<u>NTU</u>	<u>NTU</u>	<u>NTU</u>	<u>NTU</u>	<u>NTU</u>	<u>NTU</u>	<u>NTU</u>				
3A	1.4	2.73	0.91		6.11	128	1.68	1.79	128.00	0.60	9.28	25.76
8B	3.17	2.1	0.57	3.33	2.2	8.45	2.15	6.43	12.54	0.43	3.66	3.20
10	1.09	1.02	3.31	3.4	13.5	2.82	8.53	5.21	38.70	0.55	9.53	11.70
20	4.01	2.26	2.69	7.67	3.88	0.77	19.2	1.48	19.20	0.37	2.67	3.78
26	0.76	1.4	0.72	1.99	2.37	0.88	1.1	0.61	2.62	0.10	1.07	0.66
27	0.62	3.55	1.45	2.2	0.49	1.39	1.06	0.84	3.55	0.22	1.18	0.76
33	3.8	1.15	0.98	2.35	0.97	1.5	4.56	1.09	11.00	0.12	2.22	2.69
34	4.72	3.85	0.8	5.47	13.8	1.35	2.83	1.52	93.60	0.34	7.79	18.83
35	4.22	1.48	1.32	1.4	1.28	3.4	1.05	0.8	6.41	0.26	1.78	1.59
36	1.04	2.35	1.14	1.6	1.07	1.29	0.45	0.64	2.35	0.13	0.97	0.57
37	1.38	1.19	1.03	2.62	0.78	1.21	3.28	1.95	3.28	0.20	1.47	0.81
PZ-11	0.75	0.62	1.28	2.2	1.19	1.41	1.1	1.54	62.50	0.62	9.84	17.84
SW-3									2.61	0.26	1.28	0.92
Max	4.72	3.85	3.31	7.67	13.80	128.00	19.20	6.43				
Min	0.62	0.62	0.57	1.40	0.49	0.77	0.45	0.61				
Median	1.39	1.79	1.09	2.35	1.74	1.40	1.92	1.50				
Average	2.25	1.98	1.35	3.11	3.97	12.71	3.92	1.99				

Appendix F

Running Summary of Prediction Limit Exceedances

Spring 2013†		Fall 2013†	
MW-8	Selenium	MW-8	bis(2-ethylhexyl)phthalate
MW-10	Barium	MW-10	Barium
	Cobalt		Cobalt
	Nickel		Copper
	1,4-dichlorobenzene		Nickel
	chlorobenzene		chlorobenzene
MW-34	None	MW-34	Barium
			Cobalt
MW-35	Barium	MW-35	Barium
	1,1-dichloroethane		1,1-dichloroethane
	dichlorodifluoromethane		dichlorodifluoromethane

Spring 2014†		Fall 2014†	
MW-8	Cobalt	MW-8	None
	Copper		
	Nickel		
MW-10	Barium	MW-10	Barium
	Cobalt		Cobalt
	Nickel		Nickel
	chlorobenzene		chlorobenzene
MW-34	None	MW-34	bis(2-ethylhexyl)phthalate
MW-35	Barium	MW-35	Barium
	1,1-dichloroethane		dichlorodifluoromethane
	dichlorodifluoromethane		bis(2-ethylhexyl)phthalate
SW-101	None	SW-101	Cobalt

Spring 2015†		Fall 2015†	
MW-8	bis(2-ethylhexyl)phthalate	MW-8	None
MW-10	Barium	MW-10	Barium
	Cobalt		Cobalt
	Nickel		Nickel
			chlorobenzene
			1,4-dichlorobenzene
MW-34	None	MW-34	Nickel
			1,4-dichlorobenzene
			Benzene
			bis(2-ethylhexyl)phthalate
			chlorobenzene
MW-35	Barium	MW-35	Barium
	dichlorodifluoromethane		bis(2-ethylhexyl)phthalate

SW-101*	None	SW-101*	Nickel*

Spring 2016†		Fall 2016	
MW-3A	None	MW-3A	Arsenic
			Barium
MW-8	None	MW-8	Cobalt
			Nickel
MW-10	Barium	MW-10	Barium
	Nickel		Cobalt
			Nickel
			Zinc
			chlorobenzene
			1,4-dichlorobenzene
MW-27	None	MW-27	Barium
MW-34	Nickel	MW-34	Nickel
	1,4-dichlorobenzene		1,4-dichlorobenzene
	chlorobenzene		chlorobenzene
	chloroethane		
MW-35	Barium	MW-35	Barium
	dichlorodifluoromethane		dichlorodifluoromethane
	1,1-dichloroethane		1,1-dichloroethane
MW-36	None	MW-36	Barium

† Predates paring of the historic background data and the results included herein are considered informational and should not be considered conclusive.

Spring 2017		Fall 2017	
MW-3A	None	MW-3A	Arsenic
			Barium
MW-8	Nickel	MW-8	Nickel
			bis(2-ethylhexyl)phthalate
MW-10	Arsenic	MW-10	Arsenic
	Barium		Barium
	Cobalt		Cobalt
	Nickel		Nickel
	1,4-dichlorobenzene		1,4-dichlorobenzene
	chlorobenzene		chlorobenzene
	chloroethane		
MW-27	Barium	MW-27	Barium
MW-34	Nickel	MW-34	Nickel
	1,4-dichlorobenzene		1,4-dichlorobenzene
	benzene		benzene
	chlorobenzene		chlorobenzene
MW-35	Barium	MW-35	Barium
	dichlorodifluoromethane		bis(2-ethylhexyl)phthalate
	1,1-dichloroethane		dichlorodifluoromethane
MW-36	Barium	MW-36	Barium
	Cadmium		

Spring 2018		Fall 2018	
MW-3A	Nickel	MW-3A	Arsenic
	Bis(2-ethylhexyl)phthalate		Barium
			Zinc
MW-8	Nickel	MW-8	Cobalt
	Bis(2-ethylhexyl)phthalate		Nickel
			Zinc
			bis(2-ethylhexyl)phthalate
MW-10	Arsenic	MW-10	Arsenic
	Barium		Barium
	Cobalt		Cobalt
	Nickel		Nickel
	1,4-dichlorobenzene		Zinc
	chlorobenzene		1,4-dichlorobenzene
			chlorobenzene
			chloroethane
MW-27	Barium	MW-27	Barium
	Bis(2-ethylhexyl)phthalate		
MW-34	Nickel	MW-34	Nickel
	1,4-dichlorobenzene		1,4-dichlorobenzene
	Bis(2-ethylhexyl)phthalate		
MW-35	Barium	MW-35	Barium
	Dichlorodifluoromethane		Zinc
	1,1-dichloroethane		1,1-dichloroethane
			bis(2-ethylhexyl)phthalate
			dichlorodifluoromethane
MW-36	Barium	MW-36	Barium

Spring 2019		Fall 2019	
MW-3A	Cobalt	MW-3A	Cobalt
	Nickel		Nickel
MW-8	Nickel	MW-8	Cobalt
			Nickel
MW-10	Cobalt	MW-10	Barium
	Nickel		Cobalt
	chlorobenzene		Nickel
			chlorobenzene
MW-27	Barium	MW-27	Barium
	bis(2-ethylhexyl)phthalate		
MW-34	Cobalt	MW-34	Arsenic
	Nickel		Cobalt
	chlorobenzene		Nickel
			chlorobenzene
			bis(2-ethylhexyl)phthalate
MW-35	Barium	MW-35	Barium
	dichlorodifluoromethane		Cobalt
	1,1-dichloroethane		Nickel
			1,1-dichloroethane
			dichlorodifluoromethane
MW-36	Barium	MW-36	Barium

Spring 2020		Fall 2020	
MW-3A	Cobalt	MW-3A	Cobalt
	Nickel		
MW-8	None	MW-8	Nickel
MW-10	Barium	MW-10	Barium
	Cobalt		Cadmium
	Nickel		Cobalt
	chlorobenzene		Nickel
			1,4-dichlorobenzene
			chlorobenzene
MW-27	Barium	MW-27	Barium
MW-34	Cobalt	MW-34	Cobalt
	Nickel		Nickel
			1,4-dichlorobenzene
			chlorobenzene
MW-35	Barium	MW-35	None
	dichlorodifluoromethane		
	1,1-dichloroethane		
MW-36	Barium	MW-36	Barium

Spring 2021		Fall 2021	
MW-3A	Cobalt	MW-3A	Arsenic
MW-8	Cobalt	MW-8	Nickel
	Nickel		
MW-10	Barium	MW-10	Barium
	Cobalt		Cobalt
	Nickel		Nickel
	1,4-dichlorobenzene		1,4-dichlorobenzene
	chlorobenzene		chlorobenzene
MW-27	Barium	MW-27	Barium
MW-34	Cobalt	MW-34	Cobalt
	Nickel		Nickel
	1,4-dichlorobenzene		1,4-dichlorobenzene
	benzene		chlorobenzene
	chlorobenzene		
MW-35	Barium	MW-35	Cobalt
	Cobalt		Copper
			Nickel
MW-36	Barium	MW-36	Barium
	Cobalt		

Spring 2022		Fall 2022	
MW-3A	Barium	MW-3A	Barium
MW-8	Nickel	MW-8	Barium
			Nickel
MW-10	Barium	MW-10	Barium
	Nickel		Cobalt
			Nickel
			1,4-dichlorobenzene
			chlorobenzene
			chloroethane
MW-27	Barium	MW-27	None
MW-34	1,4-dichlorobenzene	MW-34	Nickel
	bis(2-ethylhexyl)phthalate		1,4-dichlorobenzene
			chlorobenzene
MW-35	Barium	MW-35	Barium
	dichlorodifluoromethane		dichlorodifluoromethane
MW-36	Barium	MW-36	Barium

Spring 2023		Fall 2023	
MW-3A	Barium	MW-3A	Dry
	bis(2-ethylhexyl)phthalate		
MW-8	None	MW-8	Nickel
MW-10	Barium	MW-10	Barium
	Nickel		Cobalt
	1,4-dichlorobenzene		Nickel
			1,4-dichlorobenzene
			chlorobenzene
MW-34	None	MW-34	Nickel
			1,4-dichlorobenzene
			chlorobenzene
MW-35	Barium	MW-35	Barium
MW-36	Barium	MW-36	Barium
	TCE		

Spring 2024		Fall 2024	
MW-3A	Nickel	MW-3A	Arsenic
MW-8	Nickel	MW-8	Cobalt
			Nickel
MW-10	Barium	MW-10	Barium
	Cobalt		Cobalt
	Nickel		Nickel
	1,4-dichlorobenzene		1,4-dichlorobenzene
			chlorobenzene
MW-34	Nickel	MW-34	Arsenic
			Cobalt
			Nickel
			1,4-dichlorobenzene
MW-35	Barium	MW-35	Barium
	dichlorodifluoromethane		dichlorodifluoromethane
MW-36	Barium	MW-36	Barium
	Copper		

Spring 2025		Fall 2025	
MW-3A	None	MW-3A	Arsenic, Nickel
MW-8	Nickel	MW-8	Barium
			Nickel
MW-10	Barium	MW-10	Barium
	Nickel		Cobalt
			Nickel
MW-34	None	MW-34	Cobalt
			Nickel
			1,4-dichlorobenzene
			Chlorobenzene
MW-35	Barium	MW-35	Barium
			dichlorodifluoromethane
MW-36	Barium	MW-36	Barium

Appendix G

Leachate Collection System Performance Evaluation Report

Appendix G.1 – Leachate Treatment Agreement

IOWA DEPARTMENT OF NATURAL RESOURCES
National Pollutant Discharge Elimination System (NPDES) Permit

OWNER NAME & ADDRESS

CITY OF TOLEDO
CITY HALL, 1007 S. PROSPECT DR.
TOLEDO, IA 52342-0234

FACILITY NAME & ADDRESS

TOLEDO CITY OF STP
1200 TRAIL DRIVE
TOLEDO, IA 52342

Section 21, T83N, R15W
Tama County

IOWA NPDES PERMIT NUMBER: 8676001
DATE OF ISSUANCE: 05/01/2023
DATE OF EXPIRATION: 04/30/2028

**YOU ARE REQUIRED TO FILE FOR RENEWAL
OF THIS PERMIT BY:** 11/02/2027
EPA NUMBER: IA0033103

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 Nick Kirkendall Digitally signed by Nick Kirkendall
Date: 2023.04.18 08:26:13 -05'00'

Nick Kirkendall
NPDES Section, Environmental Services Division

Facility Name: TOLEDO CITY OF STP

Permit Number: 8676001

Outfall No.: 001 DISCHARGE FROM AN ACTIVATED SLUDGE WASTEWATER TREATMENT FACILITY.

Receiving Stream: DEER CREEK

Route of Flow: DEER CREEK

Class A3 waters are children's recreational use waters in which recreational uses by children are common. Class A3 waters are water bodies having definite banks and bed with visible evidence of flow or occurrence of water. This type of use would primarily occur in urban or residential areas.

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: TOLEDO CITY OF STP

Permit Number: 8676001

Effluent Limitations:

You are prohibited from discharging pollutants except in compliance with the following effluent limitations:

001 DISCHARGE FROM AN ACTIVATED SLUDGE WASTEWATER TREATMENT FACILITY.

Outfall: 001 Effective Dates: 05/01/2023 to 04/30/2028			
<u>Parameter</u>	<u>Season</u>	<u>Limit Type</u>	<u>Limits</u>
CBOD5		85% Removal Required	
	Yearly	7 Day Average	40 MG/L 367 LBS/DAY
	Yearly	30 Day Average	25 MG/L 229 LBS/DAY
TOTAL SUSPENDED SOLIDS		85% Removal Required	
	Yearly	7 Day Average	45 MG/L 413 LBS/DAY
	Yearly	30 Day Average	30 MG/L 275 LBS/DAY

Facility Name: TOLEDO CITY OF STP

Permit Number: 8676001

<i>Outfall: 001 Effective Dates: 05/01/2023 to 04/30/2028</i>			
<u>Parameter</u>	<u>Season</u>	<u>Limit Type</u>	<u>Limits</u>
AMMONIA NITROGEN (N)			
	JAN	30 Day Average	8.4 MG/L 15.8 LBS/DAY
	JAN	Daily Maximum	77.1 MG/L 145.2 LBS/DAY
	FEB	30 Day Average	9.7 MG/L 14.9 LBS/DAY
	FEB	Daily Maximum	88.7 MG/L 137.1 LBS/DAY
	MAR	30 Day Average	7.6 MG/L 15.2 LBS/DAY
	MAR	Daily Maximum	69.4 MG/L 139.7 LBS/DAY
	APR	30 Day Average	3.3 MG/L 16.1 LBS/DAY
	APR	Daily Maximum	30.2 MG/L 145.9 LBS/DAY
	MAY	30 Day Average	2.8 MG/L 15.6 LBS/DAY
	MAY	Daily Maximum	26.0 MG/L 101.8 LBS/DAY
	JUN	30 Day Average	2.0 MG/L 11.4 LBS/DAY
	JUN	Daily Maximum	18.1 MG/L 72.5 LBS/DAY
	JUL	30 Day Average	1.9 MG/L 9.0 LBS/DAY
	JUL	Daily Maximum	17.3 MG/L 56.9 LBS/DAY
	AUG	30 Day Average	1.7 MG/L 9.1 LBS/DAY
	AUG	Daily Maximum	15.8 MG/L 56.0 LBS/DAY
	SEP	30 Day Average	2.2 MG/L 10.6 LBS/DAY
	SEP	Daily Maximum	20.4 MG/L 67.0 LBS/DAY
	OCT	30 Day Average	3.8 MG/L 16.2 LBS/DAY
	OCT	Daily Maximum	35.1 MG/L 100.0 LBS/DAY
	NOV	30 Day Average	5.6 MG/L 15.1 LBS/DAY
	NOV	Daily Maximum	51.2 MG/L 138.5 LBS/DAY
	DEC	30 Day Average	6.1 MG/L 16.4 LBS/DAY
	DEC	Daily Maximum	55.8 MG/L 150.9 LBS/DAY

Facility Name: TOLEDO CITY OF STP

Permit Number: 8676001

Outfall: 001 Effective Dates: 05/01/2023 to 04/30/2028			
<u>Parameter</u>	<u>Season</u>	<u>Limit Type</u>	<u>Limits</u>
CHLORIDE (AS CL)			
	Yearly	30 Day Average	794 MG/L 7,281 LBS/DAY
	Yearly	Daily Maximum	794 MG/L 7,281 LBS/DAY
ACUTE TOXICITY, CERIODAPHNIA			
	Yearly	Daily Maximum	1 NO TOXICITY
ACUTE TOXICITY, PIMEPHALES			
	Yearly	Daily Maximum	1 NO TOXICITY
DISSOLVED OXYGEN			
	Yearly	Daily Minimum	3.7 MG/L
PH			
	Yearly	Daily Maximum	9.0 STD UNITS
	Yearly	Daily Minimum	6.4 STD UNITS
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	58 LBS/DAY

Facility Name: TOLEDO CITY OF STP

Permit Number: 8676001

Outfall: 001 Effective Dates: 04/01/2023 to 03/31/2027			
<u>Parameter</u>	<u>Season</u>	<u>Limit Type</u>	<u>Limits</u>
CHLORINE, TOTAL RESIDUAL			
	Yearly	30 Day Average	0.245 MG/L 2.247 LBS/DAY
	Yearly	Daily Maximum	0.320 MG/L 2.936 LBS/DAY
Outfall: 001 Effective Dates: 04/01/2027 to 03/31/2028			
<u>Parameter</u>	<u>Season</u>	<u>Limit Type</u>	<u>Limits</u>
CHLORINE, TOTAL RESIDUAL			
	Yearly	30 Day Average	0.020 MG/L 0.19 LBS/DAY
	Yearly	Daily Maximum	0.024 MG/L 0.22 LBS/DAY

Facility Name: TOLEDO CITY OF STP

Permit Number: 8676001

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: TOLEDO CITY OF STP

Permit Number: 8676001

Outfall	Wastewater Parameter	Sample Frequency	Sample Type	Monitoring Location
The following monitoring requirements shall be in effect from 05/01/2023 to 04/30/2028				
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 (AS N)	1 TIME PER WEEK	24 HOUR COMPOSITE	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	PHOSPHORUS, TOTAL (AS P)	1 TIME PER WEEK	24 HOUR COMPOSITE	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	CBOD5	2 TIMES PER WEEK	24 HOUR COMPOSITE	EFFLUENT PRIOR TO DISINFECTION
001	TOTAL SUSPENDED SOLIDS	1 TIME PER WEEK	24 HOUR COMPOSITE	EFFLUENT PRIOR TO DISINFECTION
001	E. COLI	GEO. MEAN 1/3 MONTHS	GRAB	EFFLUENT AFTER DISINFECTION - GEO MEAN
001	ACUTE TOXICITY, CERIODAPHNIA	1 EVERY 12 MONTHS	24 HOUR COMPOSITE	EFFLUENT AFTER DISINFECTION
001	ACUTE TOXICITY, PIMEPHALES	1 EVERY 12 MONTHS	24 HOUR COMPOSITE	EFFLUENT AFTER DISINFECTION
001	AMMONIA NITROGEN (N)	2 TIMES PER WEEK	24 HOUR COMPOSITE	EFFLUENT AFTER DISINFECTION
001	ANNUAL AVERAGE NITROGEN DISCHARGED (AS N)	1 EVERY 12 MONTHS	CALCULATED	CALCULATION REPORTED ANNUALLY ON DMR
001	CHLORIDE (AS CL)	1 TIME PER WEEK	24 HOUR COMPOSITE	EFFLUENT AFTER DISINFECTION
001	CHLORINE, TOTAL RESIDUAL	3 TIMES PER WEEK	GRAB	EFFLUENT AFTER DISINFECTION
001	CYANIDE, TOTAL (AS CN)	1 EVERY MONTH	GRAB	EFFLUENT AFTER DISINFECTION
001	DISSOLVED OXYGEN	2 TIMES PER WEEK	GRAB	EFFLUENT AFTER DISINFECTION
001	FLOW	7/WEEK OR DAILY	24 HOUR TOTAL	EFFLUENT AFTER DISINFECTION
001	NITROGEN, TOTAL (AS N)	1 TIME PER WEEK	24 HOUR COMPOSITE	EFFLUENT AFTER DISINFECTION
001	PH	2 TIMES PER WEEK	GRAB	EFFLUENT AFTER DISINFECTION
001	PHOSPHORUS, TOTAL (AS P)	1 TIME PER WEEK	24 HOUR COMPOSITE	EFFLUENT AFTER DISINFECTION
001	TEMPERATURE	2 TIMES PER WEEK	GRAB	EFFLUENT AFTER DISINFECTION

Facility Name: TOLEDO CITY OF STP

Permit Number: 8676001

Special Monitoring Requirements

Outfall #	Description

001	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.

ANNUAL AVERAGE NITROGEN DISCHARGED (AS N)

ANNUALLY FROM THE PERMIT AMENDMENT DATE OF JULY 1, 2020, CALCULATE THE AVERAGE OF ALL TOTAL NITROGEN (OR PHOSPHORUS) MASS (LBS/DAY) SAMPLE RESULTS FROM THE PREVIOUS 12 MONTHS. REPORT THE ANNUAL AVERAGE IN THE JUNE 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.

E. COLI

The limit for E. coli specified in the limit pages 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.

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.

Facility Name: TOLEDO CITY OF STP

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CHLORINE, TOTAL RESIDUAL

TRC monitoring is not required if chlorine is not being utilized at the treatment plant

Facility Name: TOLEDO CITY OF STP

Permit Number: 8676001

Mixing Zone Special Monitoring Requirements

The effluent limits in this permit are based on a mixing zone study. The default mixing zone and zone of initial dilution will be used to calculate effluent limits for the renewal permit unless a new mixing zone study is completed. If a new mixing zone study is conducted, it shall be submitted with the permit renewal application.

The permittee is authorized to conduct a mixing zone study under the following conditions:

1) The mixing zone study shall use one of the following dyes:

- a) Rhodamine WT dye
- b) FWT red dye tablets
- c) FLT Yellow/Green Liquid Concentrate dye
- d) Green Sewer Tracing Dye
- e) Fluorescent FLT Yellow/Green Powder
- f) Bright Dye FWT Red Dye
- g) FLT Yellow/Green dye tablets

If a dye other than one listed above is used, you must obtain permission from the Department prior to use of the dye. Please contact Ian Willard at (515) 954-6450 or ian.willard@dnr.iowa.gov for approval of dyes other than those listed above.

2) The dye shall be used according to the instructions provided by the manufacturer;

3) The introduction of the dye into the receiving stream shall be limited to as short a time period as possible and the amount of dye used shall be as little as possible;

4) The mixing zone study shall follow the mixing zone study guidelines in the Iowa Wasteload Allocation Procedure;

5) The mixing zone study report shall include clear documentation of the mixing characteristics and the percentages of the total river flows in the mixing zone;

6) The following restrictions to the maximum allowed mixing zone shall be recorded in the mixing zone study documentation:

- a) The distance to the juncture of two perennial streams.
- b) The distance to a public water supply intake.
- c) The distance to the upstream limits of an established recreational area, such as public beaches, and state, county and local parks.
- d) The distance to the middle of a crossover point in a stream where the main current flows from one bank across to the opposite bank.
- e) The distance to another mixing zone.

7) The mixing zone does not exceed a distance of 2000 feet; and

8) Notify DNR Field Office 5 at 515-725-0268 at least 48 hours prior to the use of dye.

Please contact Ian Willard at (515) 954-6450 or ian.willard@dnr.iowa.gov for questions regarding mixing zone studies.

Facility Name: TOLEDO CITY OF STP

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Significant Industrial User Discharges:

Significant Industrial User: TAMA COUNTY LANDFILL

Outfall # Outfall Description

001 Waste is hauled by truck to the treatment plant.

Significant Industrial User Effluent Limitations

You are prohibited from discharging pollutants except in compliance with the following effluent limitations:

<i>TAMA COUNTY LANDFILL</i>			
<i>Outfall: 001 Effective Dates: 05/01/2023 to 04/30/2028</i>			
<u>Parameter</u>	<u>Season</u>	<u>Limit Type</u>	<u>Limit Values</u>
FLOW			
	Yearly	30 Day Average	0.06 MGD
	Yearly	DAILY MAXIMUM	0.1 MGD
BIOCHEMICAL OXYGEN DEMAND (BOD5)			
	Yearly	30 Day Average	120 LBS/DAY
	Yearly	DAILY MAXIMUM	200 LBS/DAY
TOTAL SUSPENDED SOLIDS			
	Yearly	30 Day Average	70 LBS/DAY
	Yearly	DAILY MAXIMUM	150 LBS/DAY
AMMONIA NITROGEN (N)			
	Yearly	30 Day Average	35 LBS/DAY
	Yearly	DAILY MAXIMUM	70 LBS/DAY
BETX (BENZENE, ETHYLBENZENE, TOLUENE, AND XYLENES)			
	Yearly	30 Day Average	0.750 MG/L 0.380 LBS/DAY
	Yearly	DAILY MAXIMUM	0.750 MG/L 0.380 LBS/DAY
PH			
	Yearly	DAILY MAXIMUM	9.0 STD UNITS
	Yearly	DAILY MINIMUM	6.5 STD UNITS

Facility Name: TOLEDO CITY OF STP

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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: TOLEDO CITY OF STP

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TAMA COUNTY LANDFILL				
Outfall	Wastewater Parameter	Sample Frequency	Sample Type	Monitoring Location
001	AMMONIA NITROGEN (N)	2 PER MONTH	GRAB	PRIOR TO DISCHARGE TO CITY SEWER
001	BETX (BENZENE, ETHLYBENZENE, TOLUENE, AND XYLENES)	2 PER MONTH	GRAB	PRIOR TO DISCHARGE TO CITY SEWER
001	BIOCHEMICAL OXYGEN DEMAND (BOD5)	2 PER MONTH	GRAB	PRIOR TO DISCHARGE TO CITY SEWER
001	FLOW	2 PER MONTH	24 HOUR TOTAL	PRIOR TO DISCHARGE TO CITY SEWER
001	NITROGEN, TOTAL KJELDAHL (AS N)	2 PER MONTH	GRAB	PRIOR TO DISCHARGE TO CITY SEWER
001	OIL AND GREASE	2 PER MONTH	GRAB	PRIOR TO DISCHARGE TO CITY SEWER
001	PH	2 PER MONTH	GRAB	PRIOR TO DISCHARGE TO CITY SEWER
001	TOTAL SUSPENDED SOLIDS	2 PER MONTH	GRAB	PRIOR TO DISCHARGE TO CITY SEWER

Facility Name: TOLEDO CITY OF STP

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ADDITIONAL MONITORING REQUIREMENTS

Tama County Landfill

The permittee shall analyze a representative sample of the landfill leachate discharge from Tama County Landfill at least annually for each of the pollutants listed below. In addition, the permittee shall monitor the volume of waste discharged and BOD5, TSS, TKN, Ammonia Nitrogen, Oil and Grease at the frequencies specified on page 14 of this permit.

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 (8676001)

Iowa DNR Field Office 5

502 E. 9th Street

Des Moines, Iowa 50319

Facility Name: TOLEDO CITY OF STP

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Outfall Number: 001

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 shall be used for acute toxicity testing are Ceriodaphnia dubia and Pimephales promelas. The acute toxicity testing procedures used to demonstrate compliance with permit limits shall be those listed in 567 IAC 63.4 and 40 CFR Part 136 and adopted by reference in rule 567 IAC 63.1(1). The method for measuring acute toxicity is specified in the EPA document EPA-821-R-02-012, Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms, 5th edition, October 2002.
3. The diluted effluent sample must contain a minimum of 78.30 % effluent and no more than 21.70 % 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 discharge monitoring report (DMR). A toxic test result shall be indicated as a "2" on the DMR. DNR Form 542-1381 shall also be submitted to the DNR field office along with the DMR.

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 the EPA document EPA-821-R-02-012, Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms, 5th edition, October 2002.

Facility Name: TOLEDO CITY OF STP

Permit Number: 8676001

Design Capacity

Design: 2

The design capacity for the treatment works is specified in Construction Permit Number 2009-212S, issued March 30, 2009. The treatment plant is designed to treat:

- * An average dry weather (ADW) flow of 0.3500 Million Gallons Per Day (MGD).
- * An average wet weather (AWW) flow of 1.1000 Million Gallons Per Day (MGD).
- * A maximum wet weather (MWW) flow of 2.6400 Million Gallons Per Day (MGD).
- * A design 5-day biochemical oxygen demand (BOD5) load of 544.00 lbs/day.
- * A design Total Kjeldahl Nitrogen (TKN) load of 112.00 lbs/day.
- * A design Total Suspended Solids (TSS) load of 640.0000 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: TOLEDO CITY OF STP

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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: TOLEDO CITY OF STP

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Total Residual Chlorine Compliance Schedule

The facility shall make necessary improvements to meet the final total residual chlorine limits at Outfall 001 according to the following schedule:

- Submit a compliance strategy no later than **February 1, 2024**. The compliance strategy shall identify the specific steps the facility will take in order to meet the limits as soon as possible, but by no later than **May 1, 2027**. It shall also include a determination of whether a construction permit is necessary, and if so, the status of the Self-Assessment Matrix and Work Record Request to DNR's Wastewater Engineering Section. (The forms and instructions are available on the DNR website at <http://www.iowadnr.gov/Environmental-Protection/Water-Quality/Wastewater-Construction/Construction-Permits>. Questions on the forms should be directed to either Terry Kirschenman at 515/725-8422 or Emy Liu at 515/725-8421).
- Submit a progress report by **September 1, 2024**. The progress report shall include specific information on the status of the project and future expected timelines for achieving compliance. It shall include a determination of whether an antidegradation alternatives analysis is required, and if so, the status of the analysis. If a construction permit is required, the progress report shall include specific information on the progress, completion, and submittal of the facility plan
- Submit a progress report by **September 1, 2025**. The progress report shall include specific information on the status of the project and future expected timelines for achieving compliance.
- Submit a progress report by **September 1, 2026**. The progress report shall include specific information on the status of the project and future expected timelines for achieving compliance.
- Achieve compliance with the final total residual chlorine limits by **May 1, 2027**.

Within fourteen (14) days following all dates of compliance, the permittee shall provide written notice of compliance with the scheduled event. All written notices and progress reports shall be sent to the following address:

Field Office 5
Iowa Department of Natural Resources
502 E. 9th Street
Des Moines, Iowa 50319

Facility Name: TOLEDO CITY OF STP

Permit Number: 8676001

Nutrient Reduction Strategy Construction Schedule

Total Phosphorus – Outfall 001

The City of Toledo shall implement the strategy recommended in the Nutrient Reduction Strategy Feasibility Report approved by the Department February 24, 2020 for reducing total phosphorus in the final effluent. Optimization and construction of improvements shall be implemented according to the following schedule:

- Submit progress reports annually on **May 1st** with the first report being due **May 1, 2021**.
- Complete construction of improvements by **November 1, 2025**.
- Complete 6 months of treatment plant optimization for nutrient reduction by **May 1, 2026**.
- Submit one year of at least weekly total phosphorus sampling data from the raw waste and final effluent by **June 1, 2027**. The report must include the results of all monitoring for total phosphorus in the raw waste and final effluent between May 1, 2026 and April 30, 2027.

Progress reports shall be submitted by the required due dates. Within fourteen (14) days following all dates of construction completion, optimization completion, and one year of monitoring, the permittee shall provide written notice of compliance with the scheduled event along with any applicable data. All written notices and progress reports shall be sent to the following address:

npdes.mail@dnr.iowa.gov

subject: (8676001 Toledo NRS Data)

Facility Name: TOLEDO CITY OF STP

Permit Number: 8676001

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 Iowa Code and 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. *{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) "d", 64.7(7) "b" and "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 in Section 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, 40 CFR 122.41(l)(6)}*
- 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), 63.14 and 63.15, 40 CFR 122.41(l)(7)}*
- 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) Provide 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.
- {567 IAC 64.7(7) "c", 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) and 64.7(7) "d" 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. *{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(l)}*

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. *{567 IAC 60.2}*
- (a) Prohibition. Bypasses from any portion of a treatment facility or from a sanitary sewer collection system designed to carry only sewage are prohibited, in accordance with 567 IAC 63.6(1). The department may not assess a civil penalty against a permittee for a bypass if the permittee has complied with all of the following:
- The bypass was unavoidable to prevent loss of life, personal injury, or severe property damage;
 - 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
 - The permittee submitted notices as required by 567 IAC 63.6.
- (b) Anticipated bypass. Except for bypasses that occur as a result of mechanical failure or acts beyond the control of the owner or operator of a waste disposal system (unanticipated bypasses), the owner or operator shall obtain written permission from the department prior to any discharge of sewage or wastes from a waste disposal system not authorized by this permit. 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 expected event, in accordance with the requirements listed in 567 IAC 63.6(2).
- (c) Unanticipated bypass. In the event that a bypass or upset occurs without prior notice having been provided pursuant to 567 IAC 63.6(2) or as a result of mechanical failure or acts beyond the control of the owner or operator, the owner or operator of the treatment facility or collection system shall notify the department by telephone as soon as possible but not later than 24 hours after the onset or discovery in accordance with the requirements in 567 IAC 63.6(3). A written submission describing the bypass shall also be provided within five days of the time the permittee becomes aware of the bypass, in accordance with the requirements in 567 IAC 63.6(3)“d”.
- (d) Reporting. 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 (b) 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:
- An upset occurred and that the permittee can identify the cause(s) of the upset;
 - The permitted facility was at the time being properly operated;
 - The permittee submitted notice of the upset to the department in accordance with 567 IAC 63.6(3); and
 - The permittee complied with any remedial measures required by the department in accordance with 567 IAC 63.6(6)“b”(4).
- (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 NOT A DEFENSE** - 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. 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 G.2 – Leachate Hauled

**Leachate Hauled to Toledo
Tama County Sanitary Landfill
2025**

MAY		JUNE		JULY		AUGUST		SEPTEMBER		NOVEMBER	
Date	Gallons	Date	Gallons	Date	Gallons	Date	Gallons	Date	Gallons	Date	Gallons
5/20/2025	8,984	6/3/2025	27,131	7/9/2025	12,036	8/4/2025	2,980	9/3/2025	24,022	11/18/2025	20,830
5/21/2025	27,045	6/16/2025	9,007	7/10/2025	21,184	8/5/2025	9,076	9/4/2025	27,268	11/20/2025	24,009
5/22/2025	17,645	6/17/2025	3,034	7/11/2025	17,947	8/6/2025	12,121	9/9/2025	20,926	11/21/2025	15,016
		6/18/2025	24,173	7/14/2025	9,074	8/12/2025	15,073	9/17/2025	6,043	11/24/2025	11,893
		6/19/2025	29,973	7/15/2025	6,109	8/13/2025	9,084				
		6/20/2025	14,792	7/16/2025	27,296	8/14/2025	12,119				
		6/24/2025	26,759	7/17/2025	16,146	8/15/2025	21,250				
		6/26/2025	15,090	7/22/2025	27,092	8/18/2025	12,058				
				7/23/2025	27,211	8/20/2025	9,054				
				7/28/2025	12,142	8/26/2025	21,293				
				7/29/2025	24,232	8/27/2025	21,255				
				7/30/2025	15,135	8/28/2025	21,191				
				7/31/2025	3,015						
53,674		149,959		218,619		166,554		78,259		71,748	

738,813 Gallons

Appendix G.3 – Leachate Testing Results

2025 Leachate Testing - Results

Tama County SLF

[illegible]



Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

11A0552

Tama County Landfill

Project Name: Outfall 001

Dave Sherwood
2872 K Avenue
Toledo, IA 52342

Project / PO Number: N/A
Received: 01/08/2025
Reported: 01/20/2025

Analytical Testing Parameters

Client Sample ID:	Prior to Discharge to City Sewer	Collected By:	Dave
Sample Matrix:	Aqueous	Collection Date:	01/08/2025 8:00
Lab Sample ID:	11A0552-01		

Determination of Volatile Organic Compounds	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 624.1								
Benzene	<1.0	1.0	ug/L	1		01/14/25 0000	01/14/25 1424	CSM
Toluene	<1.0	1.0	ug/L	1		01/14/25 0000	01/14/25 1424	CSM
Ethylbenzene	<1.0	1.0	ug/L	1		01/14/25 0000	01/14/25 1424	CSM
Xylenes, total	<2.0	2.0	ug/L	1		01/14/25 0000	01/14/25 1424	CSM
Surrogate: Dibromofluoromethane	98.4	Limit: 59-123	% Rec	1		01/14/25 0000	01/14/25 1424	CSM
Surrogate: 1,2-Dichloroethane-d4	95.3	Limit: 56-130	% Rec	1		01/14/25 0000	01/14/25 1424	CSM
Surrogate: Toluene-d8	94.0	Limit: 85-113	% Rec	1		01/14/25 0000	01/14/25 1424	CSM
Surrogate: 4-Bromofluorobenzene	99.3	Limit: 82-112	% Rec	1		01/14/25 0000	01/14/25 1424	CSM
Determination of Conventional Chemistry Parameters	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 1664A								
Oil and Grease	<4	4	mg/L	1		01/10/25 0924	01/13/25 0800	RDH
EPA 351.2, Rv. 2 (1993)								
Nitrogen, Kjeldahl, total	33.9	2.50	mg/L	1		01/15/25 1005	01/17/25 1342	SGB
SM 4500-H+ B-2011								
pH	7.5	0.5	pH	1	H4		01/13/25 1533	BSS
SM 5210 B-2016								
BOD (5 day)	<6	6	mg/L	3		01/08/25 1211	01/08/25 1401	KDA
TIMBERLINE								
Nitrogen, Ammonia	37.0	1.00	mg/L	10		01/15/25 1152	01/15/25 1510	SDF
USGS I-3765-85								
Total Suspended Solids (TSS)	8	4	mg/L	4		01/09/25 1352	01/10/25 1019	KDA

Definitions

H4: The test was performed outside of the EPA recommended holding time of 15 minutes.
RL: Reporting Limit



Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

11A0552

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
Customer Relationship Specialist
heather.murphy@microbac.com
01/20/25 14:22

CHAIN OF CUSTODY RECORD

Keystone
LABORATORIES
A Microbac Company

600 East 17th Street South
Newton, IA 50208
641-792-8451



1 I A 0 5 5 2

Tama County Landfill

PM: Heather Murphy

Page 1 of

ed: 12/12/2024 9:26:21A

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Page 3 of 3

SITE INFORMATION

Sampler:

Dave

Project:

Leachate Sampling

Outfall 001

REPORT TO

Dave Sherwood

Tama County Landfill

2872 K Avenue

Toledo, IA 52342

INVOICE TO

Dave Sherwood

Tama County Landfill

2872 K Avenue

Toledo, IA 52342

SPECIAL INSTRUCTIONS

None

Turn Around Time

☒ Standard☐ RUSH, need by ___/___/___

LAB USE ONLY

Work Order

1IA0552

Temperature

2.1

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	Prior to Discharge to City Sewer	Aqueous	GRAB	<i>1/8/25</i>	<i>8:00AM</i>	<i>6</i>	624-106 nh3-timberline ph-4500 tss-i-3765-85 bod-5210 og-t-1664 tkn-351.2	<i>01</i>

Relinquished By

Date/Time

Relinquished By

Date/Time

Received By

Date/Time

Received for Lab By

Date/Time

Remarks:

Original - Lab Copy Yellow - Sampler Copy



Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

11A1443

Tama County Landfill

Project Name: Outfall 001

Dave Sherwood
2872 K Avenue
Toledo, IA 52342

Project / PO Number: N/A
Received: 01/22/2025
Reported: 01/31/2025

Analytical Testing Parameters

Client Sample ID:	Prior to Discharge to City Sewer	Collected By:	Sherwood, Dave
Sample Matrix:	Aqueous	Collection Date:	01/22/2025 8:00
Lab Sample ID:	11A1443-01		

Determination of Volatile Organic Compounds	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 624.1								
Benzene	<1.0	1.0	ug/L	1		01/29/25 0000	01/29/25 1458	CSM
Toluene	<1.0	1.0	ug/L	1		01/29/25 0000	01/29/25 1458	CSM
Ethylbenzene	<1.0	1.0	ug/L	1		01/29/25 0000	01/29/25 1458	CSM
Xylenes, total	<2.0	2.0	ug/L	1		01/29/25 0000	01/29/25 1458	CSM
Surrogate: Dibromofluoromethane	84.8	Limit: 59-123	% Rec	1		01/29/25 0000	01/29/25 1458	CSM
Surrogate: 1,2-Dichloroethane-d4	90.5	Limit: 56-130	% Rec	1		01/29/25 0000	01/29/25 1458	CSM
Surrogate: Toluene-d8	95.3	Limit: 85-113	% Rec	1		01/29/25 0000	01/29/25 1458	CSM
Surrogate: 4-Bromofluorobenzene	94.9	Limit: 82-112	% Rec	1		01/29/25 0000	01/29/25 1458	CSM

Determination of Conventional Chemistry Parameters	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
EPA 1664A								
Oil and Grease	<4	4	mg/L	1		01/30/25 0831	01/31/25 0740	RDH
EPA 351.2, Rv. 2 (1993)								
Nitrogen, Kjeldahl, total	21.6	1.00	mg/L	1			01/28/25 1113	AKK
SM 4500-H+ B-2011								
pH	7.6	0.5	pH	1	H4	01/23/25 0932	01/23/25 1329	BSS
SM 5210 B-2016								
BOD (5 day)	<6	6	mg/L	3		01/23/25 0642	01/23/25 0806	KDA
TIMBERLINE								
Nitrogen, Ammonia	24.9	1.00	mg/L	10		01/27/25 1008	01/27/25 1246	SDF
USGS I-3765-85								
Total Suspended Solids (TSS)	3	2	mg/L	2		01/23/25 1049	01/24/25 0930	KDA

Definitions

H4: The test was performed outside of the EPA recommended holding time of 15 minutes.
RL: Reporting Limit
RPD: Relative Percent Difference



Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

11A1443

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
Customer Relationship Specialist
heather.murphy@microbac.com
01/31/25 16:09



600 East 1st
Newton, IA
641-792-84



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Tama County Landfill

PM: Heather Murphy

Page 1 of

Printed: 1/9/2025 9:20:11A

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Page 3 of 3

SITE INFORMATION

Sampler: Dave
Project: Leachate Sampling
Outfall 001

REPORT TO

Dave Sherwood
Tama County Landfill
2872 K Avenue
Toledo, IA 52342

INVOICE TO

Dave Sherwood
Tama County Landfill
2872 K Avenue
Toledo, IA 52342

SPECIAL INSTRUCTIONS

None

Turn Around Time

☒ Standard ☐ RUSH, need by ___/___/___

LAB USE ONLY

Work Order 1IA1443

Temperature 0.0

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	Prior to Discharge to City Sewer	Aqueous	GRAB	<u>1/22/25</u>	<u>8:00am</u>	<u>6</u>	624-106 nh3-timberline ph-4500 tss-i-3765-05 bod-5210 og-t-1664 am-351.2	<u>01</u>

Relinquished By Dave SP Date/Time 1-22-25 8:30am

Relinquished By Heather Murphy Date/Time 1/22/25 8:00

Received By _____ Date/Time _____

Received for Lab By _____ Date/Time _____

Original - Lab Copy Yellow - Sampler Copy

Remarks:



Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

11B0429

Tama County Landfill

Project Name: Outfall 001

Dave Sherwood
2872 K Avenue
Toledo, IA 52342

Project / PO Number: N/A
Received: 02/05/2025
Reported: 02/21/2025

Analytical Testing Parameters

Client Sample ID:	Prior to Discharge to City Sewer	Collected By:	RR
Sample Matrix:	Aqueous	Collection Date:	02/05/2025 8:40
Lab Sample ID:	11B0429-01		

Determination of Volatile Organic Compounds	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst

EPA 5030B/EPA 624.1

Benzene	<1.0	1.0	ug/L	1		02/17/25 0000	02/17/25 1610	CSM
Toluene	<1.0	1.0	ug/L	1		02/17/25 0000	02/17/25 1610	CSM
Ethylbenzene	<1.0	1.0	ug/L	1		02/17/25 0000	02/17/25 1610	CSM
Xylenes, total	<2.0	2.0	ug/L	1		02/17/25 0000	02/17/25 1610	CSM
Surrogate: Dibromofluoromethane	100	Limit: 59-123	% Rec	1		02/17/25 0000	02/17/25 1610	CSM
Surrogate: 1,2-Dichloroethane-d4	101	Limit: 56-130	% Rec	1		02/17/25 0000	02/17/25 1610	CSM
Surrogate: Toluene-d8	93.1	Limit: 85-113	% Rec	1		02/17/25 0000	02/17/25 1610	CSM
Surrogate: 4-Bromofluorobenzene	96.7	Limit: 82-112	% Rec	1		02/17/25 0000	02/17/25 1610	CSM

Determination of Conventional Chemistry Parameters	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst

EPA 1664A

Oil and Grease	<4	4	mg/L	1		02/13/25 1008	02/17/25 0830	RDH

EPA 351.2, Rv. 2 (1993)

Nitrogen, Kjeldahl, total	19.7	1.00	mg/L	1		02/11/25 0944	02/13/25 1422	SGB

SM 4500-H+ B-2011

pH	7.3	0.5	pH	1	H4		02/11/25 1259	BSS

SM 5210 B-2016

BOD (5 day)	<6	6	mg/L	3		02/06/25 1153	02/06/25 1440	MND

TIMBERLINE

Nitrogen, Ammonia	20.9	1.00	mg/L	10		02/07/25 1343	02/07/25 1614	SDF

USGS I-3765-85

Total Suspended Solids (TSS)	6	2	mg/L	2		02/10/25 1412	02/11/25 0743	LAW

Definitions

H4:	The test was performed outside of the EPA recommended holding time of 15 minutes.
RL:	Reporting Limit
RPD:	Relative Percent Difference

Microbac Laboratories, Inc., Newton

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CERTIFICATE OF ANALYSIS

11B0429

Report Comments

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Reviewed and Approved By:

Heather Murphy
Customer Relationship Specialist
heather.murphy@microbac.com
02/21/25 13:58



600 East
Newton,
641-792-1



1 I B 0 4 2 9

Tama County Landfill

PM: Heather Murphy

Page 1 of

Printed: 1/24/2025 8:21:40A

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Page 3 of 3

SITE INFORMATION

Sampler:

Project: Leachate Sampling
Outfall 001

SPECIAL INSTRUCTIONS

None

Turn Around Time

☐ Standard ☐ RUSH, need by ___/___/___

REPORT TO

Dave Sherwood
Tama County Landfill
2872 K Avenue
Toledo, IA 52342

INVOICE TO

Dave Sherwood
Tama County Landfill
2872 K Avenue
Toledo, IA 52342

LAB USE ONLY

Work Order 1IB0429

Temperature 0.0

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	Prior to Discharge to City Sewer	Aqueous	GRAB	2/5/25	8:40	6	624-106 nh3-timberline ph-4500 tas-i-3765-35 bod-5210 og-t-1664 tkn-351.2	1

Relinquished By Red Kerkke

2-5-25 8:40
Date/Time

Relinquished By Dave Sherwood

2/5/25 0900
Date/Time

Received By

Date/Time

Received for Lab By

Date/Time

Original - Lab Copy Yellow - Sampler Copy

Remarks:



Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

11B1181

Tama County Landfill

Project Name: Outfall 001

Dave Sherwood
2872 K Avenue
Toledo, IA 52342

Project / PO Number: N/A
Received: 02/19/2025
Reported: 03/04/2025

Analytical Testing Parameters

Client Sample ID:	Prior to Discharge to City Sewer	Collected By:	Dave
Sample Matrix:	Aqueous	Collection Date:	02/19/2025 7:45
Lab Sample ID:	11B1181-01		

Determination of Volatile Organic Compounds	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst

EPA 5030B/EPA 624.1

Benzene	<1.0	1.0	ug/L	1		02/20/25 0000	02/20/25 1918	CSM
Toluene	<1.0	1.0	ug/L	1		02/20/25 0000	02/20/25 1918	CSM
Ethylbenzene	<1.0	1.0	ug/L	1		02/20/25 0000	02/20/25 1918	CSM
Xylenes, total	4.1	2.0	ug/L	1		02/20/25 0000	02/20/25 1918	CSM
Surrogate: Dibromofluoromethane	95.4	Limit: 59-123	% Rec	1		02/20/25 0000	02/20/25 1918	CSM
Surrogate: 1,2-Dichloroethane-d4	86.4	Limit: 56-130	% Rec	1		02/20/25 0000	02/20/25 1918	CSM
Surrogate: Toluene-d8	95.7	Limit: 85-113	% Rec	1		02/20/25 0000	02/20/25 1918	CSM
Surrogate: 4-Bromofluorobenzene	95.4	Limit: 82-112	% Rec	1		02/20/25 0000	02/20/25 1918	CSM

Determination of Conventional Chemistry Parameters	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst

EPA 1664A

Oil and Grease	<4	4	mg/L	1		02/24/25 0918	02/25/25 0730	RDH

EPA 351.2, Rv. 2 (1993)

Nitrogen, Kjeldahl, total	16.2	1.00	mg/L	1		02/26/25 1418	02/28/25 1101	SGB

SM 4500-H+ B-2011

pH	7.4	0.5	pH	1	H4	02/20/25 1357	02/20/25 1638	BSS

SM 5210 B-2016

BOD (5 day)	7	6	mg/L	3		02/20/25 1146	02/20/25 1258	HBH

TIMBERLINE

Nitrogen, Ammonia	17.0	1.00	mg/L	10		02/24/25 0915	02/24/25 1149	SDF

USGS I-3765-85

Total Suspended Solids (TSS)	6	4	mg/L	4		02/21/25 0801	02/24/25 0951	MSP

Definitions

H4:	The test was performed outside of the EPA recommended holding time of 15 minutes.
RL:	Reporting Limit
RPD:	Relative Percent Difference

Microbac Laboratories, Inc., Newton

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Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

11B1181

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 Tisdale
Customer Relationship Specialist
03/04/25 16:27

CHAIN OF CUSTODY RECORD



600 East 17th Street South
Newton, IA 50208
641-792-8451



1 I B 1 1 8 1

Tama County Landfill
PM: Heather Murphy

Page 1 of 3

Printed: 2/10/2025 4:09:36P

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Page 3 of 3

SITE INFORMATION

Sampler: DAVE
Project: Leachate Sampling
Outfall 001

SPECIAL INSTRUCTIONS

None

Turn Around Time

☒ Standard ☐ RUSH, need by ___/___/___

REPORT TO

Dave Sherwood
Tama County Landfill
2872 K Avenue
Toledo, IA 52342

LAB USE ONLY

Work Order IB1181
Temperature 0.1
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	Prior to Discharge to City Sewer	Aqueous	GRAB	2/19/25	7:45	6	624-106 nh3-timberline ph-4500 fss-i-3765-85 bod-5210 og-t-1664 flu-351.2	01

Relinquished By [Signature]

Date/Time 2-19-25 7:45

Relinquished By [Signature]

Date/Time 2/19/25 0900

Received By [Signature]

Date/Time 2/19/25 0900

Received for Lab By [Signature]

Date/Time 2/19/25 0900

Remarks:

Original - Lab Copy Yellow - Sampler Copy



Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

1IC0543

Project Description

Leachate

For:

Todd Whipple

HLW Engineering

204 West Broad St

Story City, IA 50248

Heather Murphy

Customer Relationship Specialist

Friday, March 28, 2025

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.

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CERTIFICATE OF ANALYSIS

1IC0543

HLW Engineering

Todd Whipple
204 West Broad St
Story City, IA 50248

Project Name: Leachate

Project / PO Number: N/A
Received: 03/07/2025
Reported: 03/28/2025

Sample Summary Report

<u>Sample Name</u>	<u>Laboratory ID</u>	<u>Client Matrix</u>	<u>Sample Type</u>	<u>Sample Begin</u>	<u>Sample Taken</u>	<u>Lab Received</u>
Leachate/Lagoon	1IC0543-01	Aqueous	GRAB		03/06/25 14:02	03/07/25 10:30



Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

11C0543

Analytical Testing Parameters

Client Sample ID:	Leachate/Lagoon	Collected By:	JGH
Sample Matrix:	Aqueous	Collection Date:	03/06/2025 14:02
Lab Sample ID:	11C0543-01		

Determination of Volatile Organic Compounds	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst

EPA 5030B/EPA 624.1

Benzene	<1.0	1.0	ug/L	1		03/11/25 0000	03/11/25 1735	CSM
Toluene	<1.0	1.0	ug/L	1		03/11/25 0000	03/11/25 1735	CSM
Chlorobenzene	<1.0	1.0	ug/L	1		03/11/25 0000	03/11/25 1735	CSM
Ethylbenzene	<1.0	1.0	ug/L	1		03/11/25 0000	03/11/25 1735	CSM
Xylenes, total	<2.0	2.0	ug/L	1		03/11/25 0000	03/11/25 1735	CSM
Surrogate: Dibromofluoromethane	97.3	Limit: 59-123	% Rec	1		03/11/25 0000	03/11/25 1735	CSM
Surrogate: 1,2-Dichloroethane-d4	87.7	Limit: 56-130	% Rec	1		03/11/25 0000	03/11/25 1735	CSM
Surrogate: Toluene-d8	94.8	Limit: 85-113	% Rec	1		03/11/25 0000	03/11/25 1735	CSM
Surrogate: 4-Bromofluorobenzene	92.4	Limit: 82-112	% Rec	1		03/11/25 0000	03/11/25 1735	CSM

Determination of Acid Extractable Compounds	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst

EPA 3520C/EPA 625.1

Phenol	<10	10	ug/L	1		03/10/25 1113	03/12/25 1742	EPP
(3 & 4)-Methylphenol	<10	10	ug/L	1		03/10/25 1113	03/12/25 1742	EPP
Benzoic acid	<50	50	ug/L	1		03/10/25 1113	03/12/25 1742	EPP
Surrogate: 2-Fluorophenol	86.5	Limit: 16-140	% Rec	1		03/10/25 1113	03/12/25 1742	EPP
Surrogate: Phenol-d6	87.8	Limit: 13-147	% Rec	1		03/10/25 1113	03/12/25 1742	EPP
Surrogate: 2,4,6-Tribromophenol	117	Limit: 20-158	% Rec	1		03/10/25 1113	03/12/25 1742	EPP

Determination of Conventional Chemistry Parameters	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst

5310B

Total Organic Carbon	7.51	0.50	mg/L	1		03/26/25 0000	03/26/25 1405	CSM

EPA 1664A

Oil and Grease	<4	4	mg/L	1		03/12/25 1039	03/13/25 0800	RDH

EPA 351.2, Rv. 2 (1993)

Nitrogen, Kjeldahl, total	7.76	1.00	mg/L	1		03/20/25 0947	03/21/25 1255	SGB

SM 4500-H+ B-2011

pH	7.4	0.5	pH	1	H4	03/14/25 0831	03/18/25 0806	BSS

SM 5210 B-2016

BOD (5 day)	<6	6	mg/L	3		03/07/25 1733	03/07/25 1839	MND

TIMBERLINE

Nitrogen, Ammonia	8.29	0.10	mg/L	1		03/12/25 1251	03/12/25 1549	SDF

USGS I-1750-85

Total Dissolved Solids (TDS)	915	5	mg/L	13		03/12/25 0852	03/13/25 1216	MSP

USGS I-3765-85

Total Suspended Solids (TSS)	17	2	mg/L	2		03/12/25 0842	03/12/25 1600	MSP

Determination of Inorganic Anions	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst

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CERTIFICATE OF ANALYSIS

11C0543

Client Sample ID:	Leachate/Lagoon	Collected By:	JGH
Sample Matrix:	Aqueous	Collection Date:	03/06/2025 14:02
Lab Sample ID:	11C0543-01		

Determination of Inorganic Anions	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
300.0								
Chloride	59.9	5.0	mg/L	5		03/17/25 0000	03/18/25 0211	MID
Sulfate	355	5.0	mg/L	5		03/17/25 0000	03/18/25 0211	MID
Determination of Total Metals	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
200.7								
Iron, total	0.962	0.100	mg/L	1		03/18/25 0722	03/18/25 2239	JAR
245.1								
Mercury, total	<0.00050	0.00050	mg/L	1		03/11/25 1021	03/11/25 1021	JAR
EPA 200.8, Rv. 5.4 (1994)								
Arsenic, total	<0.0020	0.0020	mg/L	4		03/11/25 1525	03/12/25 2135	RVV
Barium, total	0.0736	0.0020	mg/L	4		03/11/25 1525	03/12/25 2135	RVV
Cadmium, total	<0.0002	0.0002	mg/L	4		03/11/25 1525	03/12/25 2135	RVV
Chromium, total	<0.0020	0.0020	mg/L	4		03/11/25 1525	03/12/25 2135	RVV
Copper, total	<0.0020	0.0020	mg/L	4		03/11/25 1525	03/12/25 2135	RVV
Lead, total	<0.0008	0.0008	mg/L	4		03/11/25 1525	03/12/25 2135	RVV
Nickel, total	0.0056	0.0040	mg/L	4		03/11/25 1525	03/12/25 2135	RVV
Selenium, total	<0.0040	0.0040	mg/L	4		03/11/25 1525	03/12/25 2135	RVV
Silver, total	<0.0020	0.0020	mg/L	4		03/11/25 1525	03/12/25 2135	RVV
Zinc, total	<0.0200	0.0200	mg/L	4		03/11/25 1525	03/12/25 2135	RVV

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CERTIFICATE OF ANALYSIS

1IC0543

Batch Log Summary

Method	Batch	Laboratory ID	Client / Source ID
245.1	1IC0224	1IC0224-BLK1	
		1IC0224-BS1	
		1IC0224-MS1	1IC0321-01
		1IC0224-MSD1	1IC0321-01
		1IC0543-01	Leachate/Lagoon
Method	Batch	Laboratory ID	Client / Source ID
SM 5210 B-2016	1IC0346	1IC0346-BLK1	
		1IC0346-SRM1	
		1IC0543-01	Leachate/Lagoon
		1IC0346-DUP1	1IC0547-03
Method	Batch	Laboratory ID	Client / Source ID
EPA 625.1	1IC0384	1IC0384-BLK1	
		1IC0384-BS1	
		1IC0384-BSD1	
		1IC0384-SRM1	
		1IC0543-01	Leachate/Lagoon
Method	Batch	Laboratory ID	Client / Source ID
EPA 200.8, Rv. 5.4 (1994)	1IC0479	1IC0479-BLK1	
		1IC0479-BS1	
		1IC0479-MS1	1IC0501-02
		1IC0479-MSD1	1IC0501-02
		1IC0543-01	Leachate/Lagoon
		1IC0479-PS1	1IC0501-02
Method	Batch	Laboratory ID	Client / Source ID
USGS I-3765-85	1IC0507	1IC0543-01	Leachate/Lagoon
		1IC0507-DUP1	1IC0484-01
		1IC0507-BS1	
		1IC0507-BLK1	
Method	Batch	Laboratory ID	Client / Source ID
USGS I-1750-85	1IC0509	1IC0509-BLK1	
		1IC0509-DUP1	1IC0485-02
		1IC0509-BS1	
		1IC0543-01	Leachate/Lagoon
Method	Batch	Laboratory ID	Client / Source ID
EPA 1664A	1IC0521	1IC0521-BLK1	



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CERTIFICATE OF ANALYSIS

11C0543

EPA 1664A	11C0521	11C0543-01 11C0521-BSD1 11C0521-BS1	Leachate/Lagoon

Method	Batch	Laboratory ID	Client / Source ID
EPA 624.1	11C0539	11C0539-BS1 11C0539-BSD1 11C0539-BLK1 11C0543-01 11C0539-MS1 11C0539-MSD1	Leachate/Lagoon 11C0459-01 11C0459-01

Method	Batch	Laboratory ID	Client / Source ID
TIMBERLINE	11C0547	11C0547-BLK1 11C0547-BS1 11C0547-MS1 11C0547-MSD1 11C0543-01	11C0508-01 11C0508-01 Leachate/Lagoon

Method	Batch	Laboratory ID	Client / Source ID
SM 4500-H+ B-2011	11C0696	11C0696-SRM3 11C0696-SRM2 11C0696-DUP1 11C0696-SRM1 11C0543-01 11C0696-DUP2	11C0688-01 Leachate/Lagoon 11C0633-02

Method	Batch	Laboratory ID	Client / Source ID
200.7	11C0812	11C0812-BLK1 11C0812-BS1 11C0543-01 11C0812-MS1 11C0812-MSD1 11C0812-PS1	Leachate/Lagoon 11C0543-01 11C0543-01 11C0543-01

Method	Batch	Laboratory ID	Client / Source ID
300.0	11C0896	11C0896-BLK1 11C0896-MRL1 11C0896-BS1 11C0896-BSD1 11C0896-MS1 11C0896-MSD1 11C0896-BLK2 11C0543-01	11C0697-02 11C0697-02 Leachate/Lagoon



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CERTIFICATE OF ANALYSIS

1IC0543

Method	Batch	Laboratory ID	Client / Source ID
EPA 351.2, Rv. 2 (1993)	1IC0924	1IC0924-BLK1	
		1IC0924-BS1	
		1IC0924-MS1	11C0532-04
		1IC0924-MSD1	11C0532-04
		1IC0543-01	Leachate/Lagoon
Method	Batch	Laboratory ID	Client / Source ID
EPA 351.2, Rv. 2 (1993)	1IC1130	1IC1130-MS1	11C0741-02
		1IC1130-BS1	
		1IC1130-BLK1	
		1IC1130-MSD1	11C0741-02
Method	Batch	Laboratory ID	Client / Source ID
TIMBERLINE	1IC1174	1IC1174-BLK1	
		1IC1174-BS1	
		1IC1174-MS1	11C1326-04
		1IC1174-MSD1	11C1326-04
Method	Batch	Laboratory ID	Client / Source ID
5310B	1IC1376	1IC1376-BSD1	
		1IC1376-BLK1	
		1IC1376-BS1	
		1IC0543-01	Leachate/Lagoon
		1IC1376-MS1	11C0692-01
		1IC1376-MSD1	11C0692-01

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 1IC0539 - EPA 5030B - EPA 624.1										
Blank (1IC0539-BLK1)				Prepared: 03/11/25 00:00 Analyzed: 03/11/25 14:17						
Benzene	<1.0	1.0	ug/L							
Toluene	<1.0	1.0	ug/L							
Chlorobenzene	<1.0	1.0	ug/L							
Ethylbenzene	<1.0	1.0	ug/L							
Xylenes, total	<2.0	2.0	ug/L							
Surrogate: Dibromofluoromethane	47.0		ug/L	50.2		93.8	59-123			
Surrogate: 1,2-Dichloroethane-d4	40.8		ug/L	50.1		81.4	56-130			
Surrogate: Toluene-d8	48.8		ug/L	50.4		96.9	85-113			
Surrogate: 4-Bromofluorobenzene	47.0		ug/L	50.1		93.7	82-112			
LCS (1IC0539-BS1)				Prepared: 03/11/25 00:00 Analyzed: 03/11/25 13:10						
Benzene	29.93	1.0	ug/L	30.0		99.8	65-135			



Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

1IC0543

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1IC0539 - EPA 5030B - EPA 624.1										
LCS (1IC0539-BS1) Prepared: 03/11/25 00:00 Analyzed: 03/11/25 13:10										
Toluene	29.78	1.0	ug/L	30.0		99.3	70-130			
Chlorobenzene	28.49	1.0	ug/L	30.0		95.0	65-135			
Ethylbenzene	28.62	1.0	ug/L	30.0		95.4	60-140			
Xylenes, total	89.25	2.0	ug/L	90.0		99.2	79-126			
Surrogate: Dibromofluoromethane	52.3		ug/L	50.2		104	59-123			
Surrogate: 1,2-Dichloroethane-d4	46.6		ug/L	50.1		93.0	56-130			
Surrogate: Toluene-d8	50.3		ug/L	50.4		99.8	85-113			
Surrogate: 4-Bromofluorobenzene	50.0		ug/L	50.1		99.7	82-112			
LCS Dup (1IC0539-BSD1) Prepared: 03/11/25 00:00 Analyzed: 03/11/25 13:32										
Benzene	28.56	1.0	ug/L	30.0		95.2	65-135	4.68	17	
Toluene	29.15	1.0	ug/L	30.0		97.2	70-130	2.14	17	
Chlorobenzene	27.93	1.0	ug/L	30.0		93.1	65-135	1.99	18	
Ethylbenzene	28.24	1.0	ug/L	30.0		94.1	60-140	1.34	17	
Xylenes, total	86.10	2.0	ug/L	90.0		95.7	79-126	3.59	18	
Surrogate: Dibromofluoromethane	52.5		ug/L	50.2		105	59-123			
Surrogate: 1,2-Dichloroethane-d4	47.3		ug/L	50.1		94.4	56-130			
Surrogate: Toluene-d8	50.8		ug/L	50.4		101	85-113			
Surrogate: 4-Bromofluorobenzene	49.8		ug/L	50.1		99.3	82-112			
Matrix Spike (1IC0539-MS1) Source: 1IC0459-01 Prepared: 03/11/25 00:00 Analyzed: 03/11/25 19:05										
Benzene	308.9	10.0	ug/L	300	ND	103	37-151			
Toluene	335.8	10.0	ug/L	300	ND	112	47-150			
Chlorobenzene	295.0	10.0	ug/L	300	ND	98.3	37-160			
Ethylbenzene	303.4	10.0	ug/L	300	ND	101	79-119			
Xylenes, total	917.8	20.0	ug/L	900	ND	102	80-120			
Surrogate: Dibromofluoromethane	558		ug/L	502		111	59-123			
Surrogate: 1,2-Dichloroethane-d4	512		ug/L	501		102	56-130			
Surrogate: Toluene-d8	562		ug/L	504		112	85-113			
Surrogate: 4-Bromofluorobenzene	512		ug/L	501		102	82-112			
Matrix Spike Dup (1IC0539-MSD1) Source: 1IC0459-01 Prepared: 03/11/25 00:00 Analyzed: 03/11/25 19:27										
Benzene	276.9	10.0	ug/L	300	ND	92.3	37-151	10.9	61	
Toluene	275.3	10.0	ug/L	300	ND	91.8	47-150	19.8	41	
Chlorobenzene	260.9	10.0	ug/L	300	ND	87.0	37-160	12.3	53	
Ethylbenzene	266.9	10.0	ug/L	300	ND	89.0	79-119	12.8	63	
Xylenes, total	804.8	20.0	ug/L	900	ND	89.4	80-120	13.1	12	R1
Surrogate: Dibromofluoromethane	553		ug/L	502		110	59-123			
Surrogate: 1,2-Dichloroethane-d4	504		ug/L	501		101	56-130			
Surrogate: Toluene-d8	508		ug/L	504		101	85-113			
Surrogate: 4-Bromofluorobenzene	495		ug/L	501		98.8	82-112			

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CERTIFICATE OF ANALYSIS

1IC0543

Determination of Acid Extractable Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1IC0384 - 3520C B/N Cont Liq - EPA 625.1										
Blank (1IC0384-BLK1)				Prepared: 03/10/25 11:13 Analyzed: 03/12/25 14:50						
Phenol	<10	10	ug/L							
(3 & 4)-Methylphenol	<10	10	ug/L							
Benzoic acid	<50	50	ug/L							
Surrogate: 2-Fluorophenol	19.0		ug/L	20.6		92.4	16-140			
Surrogate: Phenol-d6	18.2		ug/L	19.6		93.0	13-147			
Surrogate: 2,4,6-Tribromophenol	23.2		ug/L	20.0		116	20-158			
LCS (1IC0384-BS1)				Prepared: 03/10/25 11:13 Analyzed: 03/12/25 15:14						
alpha-Terpineol	<10	10	ug/L	10.0		84.7	30-114			
Phenol	<10	10	ug/L	10.0		89.8	18-128			
(3 & 4)-Methylphenol	<10	10	ug/L	10.0		91.7	37-114			
Surrogate: 2-Fluorophenol	19.3		ug/L	20.6		93.4	16-140			
Surrogate: Phenol-d6	18.9		ug/L	19.6		96.5	13-147			
Surrogate: 2,4,6-Tribromophenol	23.7		ug/L	20.0		118	20-158			
LCS Dup (1IC0384-BSD1)				Prepared: 03/10/25 11:13 Analyzed: 03/12/25 15:39						
alpha-Terpineol	<10	10	ug/L	10.0		68.5	30-114	21.1	30	
Phenol	<10	10	ug/L	10.0		73.9	18-128	19.4	30	
(3 & 4)-Methylphenol	<10	10	ug/L	10.0		75.3	37-114	19.6	28	
Surrogate: 2-Fluorophenol	16.3		ug/L	20.6		78.8	16-140			
Surrogate: Phenol-d6	15.7		ug/L	19.6		80.2	13-147			
Surrogate: 2,4,6-Tribromophenol	22.7		ug/L	20.0		113	20-158			
Reference (1IC0384-SRM1)				Prepared: 03/10/25 11:13 Analyzed: 03/12/25 16:03						
alpha-Terpineol	<10	10	ug/L	10.0		89.9	80-120			
Phenol	<10	10	ug/L	10.0		97.6	80-120			
(3 & 4)-Methylphenol	<10	10	ug/L	10.0		97.0	80-120			
Surrogate: 2-Fluorophenol	22.7		ug/L	20.6		110	16-140			
Surrogate: Phenol-d6	20.7		ug/L	19.6		106	13-147			
Surrogate: 2,4,6-Tribromophenol	24.7		ug/L	20.0		123	20-158			
Determination of Conventional Chemistry Parameters	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1IC0346 - General Prep Micro - SM 5210 B-2016										
Blank (1IC0346-BLK1)				Prepared: 03/07/25 17:33 Analyzed: 03/07/25 17:38						
BOD (5 day)	<2	2	mg/L							AC, K1
Duplicate (1IC0346-DUP1)				Source: 1IC0547-03 Prepared: 03/07/25 17:33 Analyzed: 03/07/25 19:09						
BOD (5 day)	77.2	20	mg/L		70.9			8.58	30	
Reference (1IC0346-SRM1)				Prepared: 03/07/25 17:33 Analyzed: 03/07/25 17:54						
BOD (5 day)	186	100	mg/L	198		94.0	84.6-115.4			

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CERTIFICATE OF ANALYSIS

1IC0543

Determination of Conventional Chemistry Parameters	Result	RL	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch 1IC0507 - Wet Chem Preparation - USGS I-3765-85									
Blank (1IC0507-BLK1)				Prepared: 03/12/25 08:42 Analyzed: 03/12/25 16:00					
Total Suspended Solids (TSS)	<1	1	mg/L						
LCS (1IC0507-BS1)				Prepared: 03/12/25 08:42 Analyzed: 03/12/25 16:00					
Total Suspended Solids (TSS)	13.7	1	mg/L	15.0		91.3	71-110		
Duplicate (1IC0507-DUP1)				Prepared: 03/12/25 08:42 Analyzed: 03/12/25 16:00					
Total Suspended Solids (TSS)	74.0	10	mg/L		74.0			0.00	30
Batch 1IC0509 - Wet Chem Preparation - USGS I-1750-85									
Blank (1IC0509-BLK1)				Prepared: 03/12/25 08:52 Analyzed: 03/13/25 12:16					
Total Dissolved Solids (TDS)	<5	5	mg/L						
LCS (1IC0509-BS1)				Prepared: 03/12/25 08:52 Analyzed: 03/13/25 12:16					
Total Dissolved Solids (TDS)	95	5	mg/L	100		95.3	79-114		
Duplicate (1IC0509-DUP1)				Prepared: 03/12/25 08:52 Analyzed: 03/13/25 12:16					
Total Dissolved Solids (TDS)	1220	5	mg/L		1220			0.219	24
Batch 1IC0521 - Wet Chem Preparation - EPA 1664A									
Blank (1IC0521-BLK1)				Prepared: 03/12/25 10:39 Analyzed: 03/13/25 08:00					
Oil and Grease	<4	4	mg/L						
LCS (1IC0521-BS1)				Prepared: 03/12/25 10:39 Analyzed: 03/13/25 08:00					
Oil and Grease	32.7	4	mg/L	40.0		81.8	78-114		
LCS Dup (1IC0521-BSD1)				Prepared: 03/12/25 10:39 Analyzed: 03/13/25 08:00					
Oil and Grease	38.5	4	mg/L	40.0		96.2	78-114	16.3	18
Batch 1IC0547 - General Prep HPLC/IC - TIMBERLINE									
Blank (1IC0547-BLK1)				Prepared: 03/12/25 12:51 Analyzed: 03/12/25 14:08					
Nitrogen, Ammonia	<0.10	0.10	mg/L						
LCS (1IC0547-BS1)				Prepared: 03/12/25 12:51 Analyzed: 03/12/25 14:10					
Nitrogen, Ammonia	4.84	0.10	mg/L	5.00		96.8	90-114		
Matrix Spike (1IC0547-MS1)				Prepared: 03/12/25 12:51 Analyzed: 03/12/25 14:11					
Nitrogen, Ammonia	5.36	0.10	mg/L	5.00	ND	107	84-115		
Matrix Spike Dup (1IC0547-MSD1)				Prepared: 03/12/25 12:51 Analyzed: 03/12/25 14:13					
Nitrogen, Ammonia	5.36	0.10	mg/L	5.00	ND	107	84-115	0.0541	20
Batch 1IC0696 - Wet Chem Preparation - SM 4500-H+ B-2011									
Duplicate (1IC0696-DUP1)				Prepared: 03/14/25 08:31 Analyzed: 03/18/25 08:06					
pH	7.2	0.5	pH		8.0			10.6	10 R1
Duplicate (1IC0696-DUP2)				Prepared: 03/14/25 08:31 Analyzed: 03/18/25 08:06					
pH	8.0	0.5	pH		7.2			10.6	10 R1

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1IC0543

Determination of Conventional Chemistry Parameters	Result	RL	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch 1IC0696 - Wet Chem Preparation - SM 4500-H+ B-2011									
Reference (1IC0696-SRM1)				Prepared: 03/14/25 08:31 Analyzed: 03/18/25 08:06					
pH	7.0	0.5	pH	7.00		99.6 98.6-101.4			
Reference (1IC0696-SRM2)				Prepared: 03/14/25 08:31 Analyzed: 03/18/25 08:06					
pH	7.0	0.5	pH	7.00		99.6 98.6-101.4			
Reference (1IC0696-SRM3)				Prepared & Analyzed: 03/14/25 08:31					
pH	7.0	0.5	pH	7.00		99.9 98.6-101.4			
Batch 1IC0924 - Wet Chem Preparation - EPA 351.2, Rv. 2 (1993)									
Blank (1IC0924-BLK1)				Prepared: 03/20/25 09:47 Analyzed: 03/21/25 12:43					
Nitrogen, Kjeldahl, total	<1.00	1.00	mg/L						
LCS (1IC0924-BS1)				Prepared: 03/20/25 09:47 Analyzed: 03/21/25 12:44					
Nitrogen, Kjeldahl, total	20.8	1.00	mg/L	20.0		104 90-110			
Matrix Spike (1IC0924-MS1)				Source: 1IC0532-04 Prepared: 03/20/25 09:47 Analyzed: 03/21/25 12:46					
Nitrogen, Kjeldahl, total	56.4	2.50	mg/L	50.0	1.34	110 90-110			
Matrix Spike Dup (1IC0924-MSD1)				Source: 1IC0532-04 Prepared: 03/20/25 09:47 Analyzed: 03/21/25 12:47					
Nitrogen, Kjeldahl, total	57.1	2.50	mg/L	50.0	1.34	112 90-110	1.25	10	M1
Batch 1IC1130 - Wet Chem Preparation - EPA 351.2, Rv. 2 (1993)									
Blank (1IC1130-BLK1)				Prepared: 03/21/25 16:45 Analyzed: 03/25/25 13:36					
Nitrogen, Kjeldahl, total	<1.00	1.00	mg/L						
LCS (1IC1130-BS1)				Prepared & Analyzed: 03/21/25 16:45					
Nitrogen, Kjeldahl, total	0.91	0.05	mg/L	1.00		91.2 90-110			
Matrix Spike (1IC1130-MS1)				Source: 1IC0741-02 Prepared & Analyzed: 03/21/25 16:45					
Nitrogen, Kjeldahl, total	48.0	2.50	mg/L	50.0	ND	96.0 90-110			
Matrix Spike Dup (1IC1130-MSD1)				Source: 1IC0741-02 Prepared: 03/21/25 16:45 Analyzed: 03/25/25 13:40					
Nitrogen, Kjeldahl, total	49.8	2.50	mg/L	50.0	ND	99.5 90-110	3.54	10	
Batch 1IC1174 - General Prep HPLC/IC - TIMBERLINE									
Blank (1IC1174-BLK1)				Prepared: 03/24/25 12:28 Analyzed: 03/24/25 14:00					
Nitrogen, Ammonia	<0.10	0.10	mg/L						
LCS (1IC1174-BS1)				Prepared: 03/24/25 12:28 Analyzed: 03/24/25 14:02					
Nitrogen, Ammonia	5.16	0.10	mg/L	5.00		103 90-114			
Matrix Spike (1IC1174-MS1)				Source: 1IC1326-04 Prepared: 03/24/25 12:28 Analyzed: 03/24/25 14:03					
Nitrogen, Ammonia	5.70	0.10	mg/L	5.00	0.0972	112 84-115			
Matrix Spike Dup (1IC1174-MSD1)				Source: 1IC1326-04 Prepared: 03/24/25 12:28 Analyzed: 03/24/25 14:05					
Nitrogen, Ammonia	5.84	0.10	mg/L	5.00	0.0972	115 84-115	2.34	20	
Batch 1IC1376 - TOC/DOC - 5310B									



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1IC0543

Determination of Conventional Chemistry Parameters	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1IC1376 - TOC/DOC - 5310B										
Blank (1IC1376-BLK1)				Prepared: 03/26/25 00:00 Analyzed: 03/26/25 11:15						
Total Organic Carbon	<0.50	0.50	mg/L							
LCS (1IC1376-BS1)				Prepared: 03/26/25 00:00 Analyzed: 03/26/25 13:13						
Total Organic Carbon	5.44	0.50	mg/L	5.00		109	89-116			
LCS Dup (1IC1376-BSD1)				Prepared: 03/26/25 00:00 Analyzed: 03/26/25 11:00						
Total Organic Carbon	5.42	0.50	mg/L	5.00		108	89-116	0.313	10	
Matrix Spike (1IC1376-MS1)				Source: 1IC0692-01 Prepared: 03/26/25 00:00 Analyzed: 03/26/25 16:41						
Total Organic Carbon	30.25	0.50	mg/L	5.00	26.62	72.6	50-133			
Matrix Spike Dup (1IC1376-MSD1)				Source: 1IC0692-01 Prepared: 03/26/25 00:00 Analyzed: 03/26/25 16:57						
Total Organic Carbon	31.66	0.50	mg/L	5.00	26.62	101	50-133	4.55	10	
Determination of Inorganic Anions	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1IC0896 - General Prep HPLC/IC - 300.0										
Blank (1IC0896-BLK1)				Prepared: 03/17/25 00:00 Analyzed: 03/17/25 11:59						
Chloride	<1.0	1.0	mg/L							
Sulfate	<1.0	1.0	mg/L							
Blank (1IC0896-BLK2)				Prepared: 03/17/25 00:00 Analyzed: 03/17/25 17:58						
Chloride	<1.0	1.0	mg/L							
Sulfate	<1.0	1.0	mg/L							
LCS (1IC0896-BS1)				Prepared: 03/17/25 00:00 Analyzed: 03/17/25 12:44						
Chloride	16.11	1.0	mg/L	15.4		105	90-110			
Sulfate	34.95	1.0	mg/L	33.9		103	90-110			
LCS Dup (1IC0896-BSD1)				Prepared: 03/17/25 00:00 Analyzed: 03/17/25 13:06						
Chloride	16.21	1.0	mg/L	15.4		105	90-110	0.582	10	
Sulfate	35.11	1.0	mg/L	33.9		104	90-110	0.457	10	
Matrix Spike (1IC0896-MS1)				Source: 1IC0697-02 Prepared: 03/17/25 00:00 Analyzed: 03/17/25 15:43						
Chloride	40.08	1.0	mg/L	15.4	24.55	101	80-120			
Sulfate	81.43	1.0	mg/L	33.9	47.84	99.2	80-120			
Matrix Spike Dup (1IC0896-MSD1)				Source: 1IC0697-02 Prepared: 03/17/25 00:00 Analyzed: 03/17/25 16:06						
Chloride	40.22	1.0	mg/L	15.4	24.55	102	80-120	0.354	10	
Sulfate	81.94	1.0	mg/L	33.9	47.84	101	80-120	0.621	10	
Determination of Total Metals	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1IC0224 - EPA 7470A Hg Water - 245.1										
Blank (1IC0224-BLK1)				Prepared: 03/06/25 07:57 Analyzed: 03/11/25 09:30						
Mercury, total	<0.00050	0.00050	mg/L							



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Determination of Total Metals	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1IC0224 - EPA 7470A Hg Water - 245.1										
LCS (1IC0224-BS1)				Prepared: 03/06/25 07:57 Analyzed: 03/11/25 09:32						
Mercury, total	0.00263	0.00050	mg/L	0.00250		105	85-115			
Matrix Spike (1IC0224-MS1)				Source: 1IC0321-01 Prepared: 03/06/25 07:57 Analyzed: 03/11/25 09:41						
Mercury, total	0.00308	0.00050	mg/L	0.00250	ND	123	70-130			
Matrix Spike Dup (1IC0224-MSD1)				Source: 1IC0321-01 Prepared: 03/06/25 07:57 Analyzed: 03/11/25 09:43						
Mercury, total	0.00319	0.00050	mg/L	0.00250	ND	128	70-130	3.48	10	
Batch 1IC0479 - EPA 200.2 Total ICP-MS - EPA 200.8, Rv. 5.4 (1994)										
Blank (1IC0479-BLK1)				Prepared: 03/11/25 15:25 Analyzed: 03/12/25 20:34						
Arsenic, total	<0.0020	0.0020	mg/L							
Barium, 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 (1IC0479-BS1)				Prepared: 03/11/25 15:25 Analyzed: 03/12/25 20:40						
Arsenic, total	0.0930	0.0020	mg/L	0.100		93.0	85-115			
Barium, total	0.106	0.0020	mg/L	0.100		106	85-115			
Cadmium, total	0.0932	0.0002	mg/L	0.100		93.2	85-115			
Chromium, total	0.0940	0.0020	mg/L	0.100		94.0	85-115			
Copper, total	0.0961	0.0020	mg/L	0.100		96.1	85-115			
Lead, total	0.0981	0.0008	mg/L	0.100		98.1	85-115			
Nickel, total	0.0963	0.0040	mg/L	0.100		96.3	85-115			
Selenium, total	0.0878	0.0040	mg/L	0.100		87.8	85-115			
Silver, total	0.0967	0.0020	mg/L	0.100		96.7	85-115			
Zinc, total	0.0922	0.0200	mg/L	0.100		92.2	85-115			
Matrix Spike (1IC0479-MS1)				Source: 1IC0501-02 Prepared: 03/11/25 15:25 Analyzed: 03/12/25 21:04						
Arsenic, total	0.0964	0.0020	mg/L	0.100	0.0013	95.1	70-130			
Barium, total	0.210	0.0020	mg/L	0.100	0.101	110	70-130			
Cadmium, total	0.0930	0.0002	mg/L	0.100	ND	93.0	70-130			
Chromium, total	0.0952	0.0020	mg/L	0.100	ND	95.2	70-130			
Copper, total	0.101	0.0020	mg/L	0.100	0.0074	93.8	70-130			
Lead, total	0.0956	0.0008	mg/L	0.100	ND	95.6	70-130			
Nickel, total	0.0998	0.0040	mg/L	0.100	0.0009	98.9	70-130			
Selenium, total	0.0880	0.0040	mg/L	0.100	0.0018	86.2	70-130			
Silver, total	0.0956	0.0020	mg/L	0.100	ND	95.6	70-130			
Zinc, total	0.108	0.0200	mg/L	0.100	ND	108	70-130			
Matrix Spike Dup (1IC0479-MSD1)				Source: 1IC0501-02 Prepared: 03/11/25 15:25 Analyzed: 03/12/25 21:10						
Arsenic, total	0.0966	0.0020	mg/L	0.100	0.0013	95.3	70-130	0.243	20	

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Determination of Total Metals	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 11C0479 - EPA 200.2 Total ICP-MS - EPA 200.8, Rv. 5.4 (1994)										
Matrix Spike Dup (11C0479-MSD1)		Source: 11C0501-02		Prepared: 03/11/25 15:25 Analyzed: 03/12/25 21:10						
Barium, total	0.216	0.0020	mg/L	0.100	0.101	115	70-130	2.60	20	
Cadmium, total	0.0947	0.0002	mg/L	0.100	ND	94.7	70-130	1.83	20	
Chromium, total	0.0956	0.0020	mg/L	0.100	ND	95.6	70-130	0.459	20	
Copper, total	0.102	0.0020	mg/L	0.100	0.0074	94.7	70-130	0.909	20	
Lead, total	0.0976	0.0008	mg/L	0.100	ND	97.6	70-130	2.13	20	
Nickel, total	0.0989	0.0040	mg/L	0.100	0.0009	98.0	70-130	0.929	20	
Selenium, total	0.0895	0.0040	mg/L	0.100	0.0018	87.8	70-130	1.78	20	
Silver, total	0.0993	0.0020	mg/L	0.100	ND	99.3	70-130	3.79	20	
Zinc, total	0.108	0.0200	mg/L	0.100	ND	108	70-130	0.0807	20	
Post Spike (11C0479-PS1)		Source: 11C0501-02		Prepared: 03/11/25 15:25 Analyzed: 03/13/25 11:47						
Arsenic, total	0.0780		mg/L	0.0800	0.0013	95.9	70-130			
Barium, total	0.186		mg/L	0.0800	0.0987	109	70-130			
Cadmium, total	0.0774		mg/L	0.0800	0.00001	96.8	70-130			
Chromium, total	0.0849		mg/L	0.0800	0.0005	105	70-130			
Copper, total	0.0918		mg/L	0.0800	0.0073	106	70-130			
Lead, total	0.0746		mg/L	0.0800	0.0002	93.0	70-130			
Nickel, total	0.0846		mg/L	0.0800	0.0009	105	70-130			
Selenium, total	0.0693		mg/L	0.0800	0.0017	84.5	70-130			
Silver, total	0.0773		mg/L	0.0800	0.00008	96.5	70-130			
Zinc, total	0.0926		mg/L	0.0800	0.0122	101	70-130			
Batch 11C0812 - EPA 200.2 Total ICP-OES (200.7) - 200.7										
Blank (11C0812-BLK1)		Prepared: 03/18/25 07:22 Analyzed: 03/18/25 22:27								
Iron, total	<0.100	0.100	mg/L							
LCS (11C0812-BS1)		Prepared: 03/18/25 07:22 Analyzed: 03/18/25 22:33								
Iron, total	2.25	0.100	mg/L	2.20		102	85-115			
Matrix Spike (11C0812-MS1)		Source: 11C0543-01		Prepared: 03/18/25 07:22 Analyzed: 03/18/25 22:45						
Iron, total	3.25	0.100	mg/L	2.20	0.962	104	70-130			
Matrix Spike Dup (11C0812-MSD1)		Source: 11C0543-01		Prepared: 03/18/25 07:22 Analyzed: 03/18/25 22:51						
Iron, total	3.17	0.100	mg/L	2.20	0.962	100	70-130	2.62	20	
Post Spike (11C0812-PS1)		Source: 11C0543-01		Prepared: 03/18/25 07:22 Analyzed: 03/18/25 23:08						
Iron, total	9.92		mg/L	8.80	0.962	102	85-115			

Definitions

AC:	BOD blank = 0.21mg/L
H4:	The test was performed outside of the EPA recommended holding time of 15 minutes.
K1:	Unseeded dilution blank depletion exceeds 0.2 mg/L.
M1:	Matrix spike recovery is above acceptance limits.
R1:	Duplicate RPD is outside acceptance criteria.
RL:	Reporting Limit
RPD:	Relative Percent Difference



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CERTIFICATE OF ANALYSIS

1IC0543

Cooler Receipt Log

Cooler ID: Default Cooler

Temp: 1.6°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
Customer Relationship Specialist
heather.murphy@microbac.com
03/28/25 10:17



CHAIN OF CUST

600 East 17th Street South
Newton, IA 50208
641-792-8451



1 I C 0 5 4 3

HLW Engineering
PM: Heather Murphy

Page 1 of

d: 2/26/2025 1:54:06P

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SITE INFORMATION

Sampler: LGH
Project: Tama Co. Landfill - Leachate
Leachate

REPORT TO

Todd Whipple
HLW Engineering
204 West Broad St
Story City, IA 50248

INVOICE TO

Dave Sherwood
Tama County Landfill Commission
PO Box 31
Toledo, IA 52342

SPECIAL INSTRUCTIONS

None

Turn Around Time

☒ Standard ☐ RUSH, need by ___/___/___

LAB USE ONLY

Work Order

Temperature

Turn-Cooler: No

1 IC0543

1.6°C

- ☐ 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	Aqueous	GRAB	3/6/25	14:02	15	624@chlorobenzene 625-900 as-t-200.8 bod-5210 cl-300.0 cu-t-200.8 hg-t-245.1 ni-t-200.8 pb-t-200.8 se-t-200.8 tds-t-1750-85 toc-5310b zn-t-200.8 624-106 ag-t-200.8 ba-t-200.8 cd-t-200.8 cr-t-200.8 fe-t-200.7 nh3-timberline og-t-1664 ph-4500 so4-300.0 tkn-351.2 tss-t-3765-85	1

Relinquished By IC0543 Date/Time 3/7/25

Received By _____ Date/Time _____

Relinquished By _____ Date/Time _____

Received for Lab By _____ Date/Time 3/7/2025 10:30 AM

Remarks:

Original - Lab Copy Yellow - Sampler Copy



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CERTIFICATE OF ANALYSIS

11E1455

Tama County Landfill

Project Name: Outfall 001

Dave Sherwood
2872 K Avenue
Toledo, IA 52342

Project / PO Number: N/A
Received: 05/20/2025
Reported: 06/03/2025

Analytical Testing Parameters

Client Sample ID:	Prior to Discharge to City Sewer	Collected By:	RR
Sample Matrix:	Aqueous	Collection Date:	05/20/2025 8:00
Lab Sample ID:	11E1455-01		

Determination of Volatile Organic Compounds	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst

EPA 5030B/EPA 624.1

Benzene	<1.0	1.0	ug/L	1		05/21/25 0000	05/21/25 1450	RAF
Toluene	<1.0	1.0	ug/L	1		05/21/25 0000	05/21/25 1450	RAF
Ethylbenzene	<1.0	1.0	ug/L	1		05/21/25 0000	05/21/25 1450	RAF
Xylenes, total	<2.0	2.0	ug/L	1		05/21/25 0000	05/21/25 1450	RAF
Surrogate: Dibromofluoromethane	67.0	Limit: 59-123	% Rec	1		05/21/25 0000	05/21/25 1450	RAF
Surrogate: 1,2-Dichloroethane-d4	62.9	Limit: 56-130	% Rec	1		05/21/25 0000	05/21/25 1450	RAF
Surrogate: Toluene-d8	109	Limit: 85-113	% Rec	1		05/21/25 0000	05/21/25 1450	RAF
Surrogate: 4-Bromofluorobenzene	91.4	Limit: 82-112	% Rec	1		05/21/25 0000	05/21/25 1450	RAF

Determination of Conventional Chemistry Parameters	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst

EPA 1664A

Oil and Grease	<4	4	mg/L	1	A14	05/28/25 0740	05/29/25 0730	RDH

EPA 351.2, Rv. 2 (1993)

Nitrogen, Kjeldahl, total	63.8	12.5	mg/L	5		05/29/25 1410	06/03/25 1517	SGB

SM 4500-H+ B-2011

pH	7.9	0.5	pH	1	H4		05/23/25 1306	BSS

SM 5210 B-2016

BOD (5 day)	27	6	mg/L	3		05/21/25 0953	05/21/25 1144	MND

TIMBERLINE

Nitrogen, Ammonia	63.6	1.00	mg/L	10		05/21/25 0924	05/21/25 1032	SDF

USGS I-3765-85

Total Suspended Solids (TSS)	25	1	mg/L	1		05/22/25 0802	05/22/25 1103	LAW

Definitions

A14:	Sample was preserved with Hydrochloric Acid to pH <2 on receipt.
DF:	Dilution Factor representing the amount the sample was diluted during analysis and may not represent preparation factors.
H4:	The test was performed outside of the EPA recommended holding time of 15 minutes.
RL:	Reporting Limit



Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

1IE1455

Report Comments

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Reviewed and Approved By:

Heather Murphy
Customer Relationship Specialist
heather.murphy@microbac.com
06/03/25 16:54



600 East
Newton
641-792



1 I E 1 4 5 5

Tama County Landfill

PM: Heather Murphy

Page 1 of

Printed: 2/20/2025 10:17:21A

www.keystonelabs.com

SITE INFORMATION

Sampler:

Project: Leachate Sampling
Outfall 001

SPECIAL INSTRUCTIONS

None

Turn Around Time

☐ Standard ☐ RUSH, need by ___/___/___

REPORT TO

Dave Sherwood
Tama County Landfill
2872 K Avenue
Toledo, IA 52342

INVOICE TO

Dave Sherwood
Tama County Landfill
2872 K Avenue
Toledo, IA 52342

LAB USE ONLY

Work Order IE1455

Temperature 0.0

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	Prior to Discharge to City Sewer	Aqueous	GRAB	5/20/25	8:00am	6	624-106 nh3-timberline ph-4500 tss-i-3765-35	bod-5210 og-t-1664 tkn-351.2	01

Page 3 of 3

Relinquished By Rod Kadeke

Date/Time 5-20-25 8:00 am

Relinquished By Echo Farness

Date/Time 5/20/25 10:00

Received By [Signature]

Date/Time 5-20-25 10:00 am

Received for Lab By

Date/Time

Original - Lab Copy Yellow - Sampler Copy

Remarks:



Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

11F0245

Tama County Landfill

Project Name: Outfall 001

Dave Sherwood
2872 K Avenue
Toledo, IA 52342

Project / PO Number: N/A
Received: 06/03/2025
Reported: 06/17/2025

Analytical Testing Parameters

Client Sample ID:	Prior to Discharge to City Sewer	Collected By:	Sherwood, Dave
Sample Matrix:	Aqueous	Collection Date:	06/03/2025 8:35
Lab Sample ID:	11F0245-01		

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 624.1	Method Notes: L3						
Benzene	<10.0	10.0	ug/L		06/05/25 0000	06/05/25 1831	RAF
Toluene	28.9	10.0	ug/L		06/05/25 0000	06/05/25 1831	RAF
Ethylbenzene	<10.0	10.0	ug/L		06/05/25 0000	06/05/25 1831	RAF
Xylenes, total	<20.0	20.0	ug/L		06/05/25 0000	06/05/25 1831	RAF
Surrogate: Dibromofluoromethane	52.2	Limit: 59-123	% Rec	S2	06/05/25 0000	06/05/25 1831	RAF
Surrogate: 1,2-Dichloroethane-d4	46.2	Limit: 56-130	% Rec	S2	06/05/25 0000	06/05/25 1831	RAF
Surrogate: Toluene-d8	103	Limit: 85-113	% Rec		06/05/25 0000	06/05/25 1831	RAF
Surrogate: 4-Bromofluorobenzene	84.6	Limit: 82-112	% Rec		06/05/25 0000	06/05/25 1831	RAF

Determination of Conventional Chemistry Parameters	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 1664A							
Oil and Grease	<4	4	mg/L	A14	06/06/25 0814	06/09/25 0800	GC
EPA 351.2, Rv. 2 (1993)							
Nitrogen, Kjeldahl, total	132	2.50	mg/L		06/12/25 0837	06/17/25 1546	SGB
SM 4500-H+ B-2011							
pH	7.4	0.5	pH	H4	06/04/25 1302	06/05/25 0941	BSS
SM 5210 B-2016							
BOD (5 day)	353	6	mg/L		06/04/25 1228	06/04/25 1337	MND
TIMBERLINE							
Nitrogen, Ammonia	117	1.00	mg/L		06/05/25 0957	06/05/25 1140	SDF
USGS I-3765-85							
Total Suspended Solids (TSS)	82	1	mg/L		06/03/25 1402	06/04/25 1108	LAW

Definitions

A14:	Sample was preserved with Hydrochloric Acid to pH <2 on receipt.
H4:	The test was performed outside of the EPA recommended holding time of 15 minutes.
L3:	Elevated reporting limit due to sample foaming.
RL:	Reporting Limit
S2:	Surrogate recovery is below acceptance limits.



Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

11F0245

Report Comments

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Reviewed and Approved By:

Heather Murphy
Customer Relationship Specialist
heather.murphy@microbac.com
06/17/25 16:40



1 I F 0 2 4 5

Tama County Landfill
PM: Heather Murphy

SITE INFORMATION

Sampler: Dave

Project:
Leachate Sampling

SPECIAL INSTRUCTIONS

None

Turn Around Time

☒ Standard ☐ RUSH, need by ___/___/___

REPORT TO

Dave Sherwood
Tama County Landfill
2872 K Avenue
Toledo, IA 52342

INVOICE TO

Dave Sherwood
Tama County Landfill
2872 K Avenue
Toledo, IA 52342

LAB USE ONLY

Work Order 1IF0245

Temperature 0.3

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	Prior to Discharge to City Sewer	Aqueous	GRAB	<u>6/3/25</u>	<u>8:35</u>	<u>6</u>	624-106 dilution og-1-1664 lkr-351.2 bod-5210 ml3-timberline plr-4500 lss-i-3765-85	<u>01</u>

[Signature] 6-3-25
Relinquished By Date/Time

Received By Date/Time

[Signature] 6/3/25 9:48
Relinquished By Date/Time
[Signature] 6/3/25 09:48
Received for Lab By Date/Time

Remarks:



Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

1IF1186

Tama County Landfill

Project Name: Outfall 001

Dave Sherwood
2872 K Avenue
Toledo, IA 52342

Project / PO Number: N/A
Received: 06/16/2025
Reported: 06/27/2025

Analytical Testing Parameters

Client Sample ID: Prior to Discharge to City Sewer
Sample Matrix: Aqueous
Lab Sample ID: 1IF1186-01

Collected By: Rouse, Steve
Collection Date: 06/16/2025 8:40

Determination of Volatile Organic Compounds

EPA 5030B/EPA 624.1

	Result	RL	Units	Note	Prepared	Analyzed	Analyst
Benzene	1.1	1.0	ug/L		06/17/25 0000	06/17/25 1704	RAF
Toluene	5.3	1.0	ug/L		06/17/25 0000	06/17/25 1704	RAF
Ethylbenzene	<1.0	1.0	ug/L		06/17/25 0000	06/17/25 1704	RAF
Xylenes, total	<2.0	2.0	ug/L		06/17/25 0000	06/17/25 1704	RAF
Surrogate: Dibromofluoromethane	87.4	Limit: 59-123	% Rec		06/17/25 0000	06/17/25 1704	RAF
Surrogate: 1,2-Dichloroethane-d4	82.3	Limit: 56-130	% Rec		06/17/25 0000	06/17/25 1704	RAF
Surrogate: Toluene-d8	101	Limit: 85-113	% Rec		06/17/25 0000	06/17/25 1704	RAF
Surrogate: 4-Bromofluorobenzene	90.5	Limit: 82-112	% Rec		06/17/25 0000	06/17/25 1704	RAF

Determination of Conventional Chemistry Parameters

EPA 1664A

Oil and Grease	<4	4	mg/L	A14	06/18/25 0720	06/18/25 1300	RDH

EPA 351.2, Rv. 2 (1993)

Nitrogen, Kjeldahl, total	27.8	2.50	mg/L		06/26/25 0832	06/27/25 1112	SGB

SM 4500-H+ B-2011

pH	7.6	0.5	pH	H4	06/17/25 1115	06/17/25 1255	BSS

SM 5210 B-2016

BOD (5 day)	26	6	mg/L		06/16/25 1535	06/16/25 1714	MND

TIMBERLINE

Nitrogen, Ammonia	29.0	1.00	mg/L		06/18/25 0929	06/18/25 1208	TEP

USGS I-3765-85

Total Suspended Solids (TSS)	20	1	mg/L		06/16/25 1122	06/17/25 0904	LAW

Definitions

A14: Sample was preserved with Hydrochloric Acid to pH <2 on receipt.
H4: The test was performed outside of the EPA recommended holding time of 15 minutes.
RL: Reporting Limit



Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

1IF1186

Report Comments

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Reviewed and Approved By:

A black and white photograph of a handwritten signature in cursive script, reading "Heather Tisdale".

Heather Tisdale
Customer Relationship Specialist
06/27/25 16:50



CHAIN OF CUSTODY RECORD

600 East 17th Street South
Newton, IA 50208
641-792-8451



1 I F 1 1 8 6

Tama County Landfill

PM: Heather Murphy

Page 1 of

1/2025 8:06:17A

ystonelabs.com

Page 3 of 3

SITE INFORMATION

Sampler: Steve RouseProject: Leachate Sampling

Outfall 001

SPECIAL INSTRUCTIONS

None

Turn Around Time

☒ Standard☐ RUSH, need by ___/___/___

REPORT TO

Dave Sherwood
Tama County Landfill
2872 K Avenue
Toledo, IA 52342

INVOICE TO

Dave Sherwood
Tama County Landfill
2872 K Avenue
Toledo, IA 52342

LAB USE ONLY

Work Order

Temperature

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	Prior to Discharge to City Sewer	Aqueous	GRAB	6/16/25	8:40	6	624-106 dilution og-i-1664 fka-351.2 bod-5210 nh3-timberline ph-4500 tss-i-3765-85	01

Relinquished By

Date/Time

Relinquished By

Date/Time

Received By

Date/Time

Received for Lab By

Date/Time

Remarks:

Original - Lab Copy Yellow - Sampler Copy



Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

1IG0951

Tama County Landfill

Project Name: Outfall 001

Dave Sherwood
2872 K Avenue
Toledo, IA 52342

Project / PO Number: N/A
Received: 07/09/2025
Reported: 07/22/2025

Analytical Testing Parameters

Client Sample ID:	Prior to Discharge to City Sewer	Collected By:	Unknown
Sample Matrix:	Aqueous	Collection Date:	07/09/2025 8:30
Lab Sample ID:	1IG0951-01		

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 624.1							
Benzene	<1.0	1.0	ug/L		07/10/25 0000	07/10/25 1428	RAF
Toluene	<1.0	1.0	ug/L		07/10/25 0000	07/10/25 1428	RAF
Ethylbenzene	<1.0	1.0	ug/L		07/10/25 0000	07/10/25 1428	RAF
Xylenes, total	<2.0	2.0	ug/L		07/10/25 0000	07/10/25 1428	RAF
Surrogate: Dibromofluoromethane	79.0	Limit: 59-123	% Rec		07/10/25 0000	07/10/25 1428	RAF
Surrogate: 1,2-Dichloroethane-d4	75.4	Limit: 56-130	% Rec		07/10/25 0000	07/10/25 1428	RAF
Surrogate: Toluene-d8	97.1	Limit: 85-113	% Rec		07/10/25 0000	07/10/25 1428	RAF
Surrogate: 4-Bromofluorobenzene	90.7	Limit: 82-112	% Rec		07/10/25 0000	07/10/25 1428	RAF

Determination of Conventional Chemistry Parameters	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 1664A							
Oil and Grease	<4	4	mg/L		07/17/25 1337	07/21/25 0800	RDH
EPA 351.2, Rv. 2 (1993)							
Nitrogen, Kjeldahl, total	4.48	2.50	mg/L			07/16/25 0946	SAA
SM 4500-H+ B-2011							
pH	7.5	0.5	pH	H4		07/15/25 0814	BSS
SM 5210 B-2016							
BOD (5 day)	<6	6	mg/L		07/09/25 1236	07/09/25 1347	MND
TIMBERLINE							
Nitrogen, Ammonia	4.13	0.10	mg/L		07/10/25 0849	07/10/25 1128	SDF
USGS I-3765-85							
Total Suspended Solids (TSS)	12	1	mg/L		07/09/25 1329	07/10/25 0813	LAW

Definitions

H4: The test was performed outside of the EPA recommended holding time of 15 minutes.
RL: Reporting Limit

Report Comments

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Reviewed and Approved By:

Sue Thompson

Sue Thompson
Client Services Manager
07/22/25 17:24

CHAIN OF CUSTODY RECORD



600 East 17th Street South
Newton, IA 50208
Phone: 641-792-8451

Page 1 of 1
Printed: 6/16/2025 8:48:32AM

Page 2 of 2

SITE INFORMATION

Sampler: *[Signature]*

Project: Leachate Sampling
Outfall 001

PH 7.4

REPORT TO

Dave Sherwood
Tama County Landfill
2872 K Avenue
Toledo, IA 52342

INVOICE TO

Dave Sherwood
Tama County Landfill
2872 K Avenue
Toledo, IA 52342

SPECIAL INSTRUCTIONS

None

Turn Around Time

☒ Standard ☐ RUSH, need by ___/___/___

LAB USE ONLY



1 I G 0 9 5 1

Tama County Landfill
PM: Heather Murphy

Temperature: *1.5 ice* °C

Number	Sample Identification / Client ID	Matrix	Sample Type	Date	Time	# Containers	Analyses	Lab Sample Number
01-001	Prior to Discharge to City Sewer	Aqueous	GRAB	<i>7/9/25</i>	<i>8:30</i>	<i>6</i>	624-106 bod-5210 ph-4500 tss-i-3765-85 dilution nh3-timberline tkn-351.2 og-t-1664	<i>01</i>

Relinquished By _____ Date/Time _____

Received By _____ Date/Time _____

Relinquished By *[Signature]* Date/Time *7-9-25 10:36*

Received for Lab By *[Signature]* Date/Time *7/9/25 10:38*

Remarks:



Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

1IG2317

Tama County Landfill

Project Name: Outfall 001

Dave Sherwood
2872 K Avenue
Toledo, IA 52342

Project / PO Number: N/A
Received: 07/23/2025
Reported: 08/05/2025

Analytical Testing Parameters

Client Sample ID:	Prior to Discharge to City Sewer	Collected By:	Dave
Sample Matrix:	Aqueous	Collection Date:	07/23/2025 8:00
Lab Sample ID:	1IG2317-01		

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 624.1							
Benzene	1.9	1.0	ug/L		07/24/25 0000	07/24/25 1610	RAF
Toluene	9.4	1.0	ug/L		07/24/25 0000	07/24/25 1610	RAF
Ethylbenzene	<1.0	1.0	ug/L		07/24/25 0000	07/24/25 1610	RAF
Xylenes, total	<2.0	2.0	ug/L		07/24/25 0000	07/24/25 1610	RAF
Surrogate: Dibromofluoromethane	93.2	Limit: 59-123	% Rec		07/24/25 0000	07/24/25 1610	RAF
Surrogate: 1,2-Dichloroethane-d4	87.2	Limit: 56-130	% Rec		07/24/25 0000	07/24/25 1610	RAF
Surrogate: Toluene-d8	98.5	Limit: 85-113	% Rec		07/24/25 0000	07/24/25 1610	RAF
Surrogate: 4-Bromofluorobenzene	89.2	Limit: 82-112	% Rec		07/24/25 0000	07/24/25 1610	RAF

Determination of Conventional Chemistry Parameters	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 1664A							
Oil and Grease	<4	4	mg/L	A14	07/31/25 0816	08/01/25 0730	RDH
EPA 351.2, Rv. 2 (1993)							
Nitrogen, Kjeldahl, total	41.4	2.50	mg/L		07/30/25 1151	08/01/25 1110	SGB
SM 4500-H+ B-2011							
pH	7.0	0.5	pH	H4		07/25/25 0825	BSS
SM 5210 B-2016							
BOD (5 day)	31	6	mg/L		07/23/25 1246	07/23/25 1416	MND
TIMBERLINE							
Nitrogen, Ammonia	39.3	1.00	mg/L		07/24/25 0833	07/24/25 0919	TEP
USGS I-3765-85							
Total Suspended Solids (TSS)	67	1	mg/L		07/23/25 1503	07/24/25 1344	LAW

Definitions

A14:	Sample was preserved with Hydrochloric Acid to pH <2 on receipt.
H4:	The test was performed outside of the EPA recommended holding time of 15 minutes.
RL:	Reporting Limit



Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

1IG2317

Report Comments

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Reviewed and Approved By:

Heather Murphy
Customer Relationship Specialist
heather.murphy@microbac.com
08/05/25 13:18

CHAIN OF CUSTODY RECORD



600 East 17th Street South
Newton, IA 50208
Phone: 641-792-8451

Page 1 of 1

Printed: 7/9/2025 9:20:12AM

PH 7.5 8:00 AM

Page 3 of 3

SITE INFORMATION

Sampler: *Dave*
Project: Leachate Sampling
Outfall 001

REPORT TO

Dave Sherwood
Tama County Landfill
2872 K Avenue
Toledo, IA 52342

INVOICE TO

Dave Sherwood
Tama County Landfill
2872 K Avenue
Toledo, IA 52342

SPECIAL INSTRUCTIONS

None

Turn Around Time

☒ Standard ☐ RUSH, need by ___/___/___

LAB USE ONLY



1 I G 2 3 1 7

Tama County Landfill
PM: Heather Murphy

Temperature: *0-21.6* °C

Number	Sample Identification / Client ID	Matrix	Sample Type	Date	Time	# Containers	Analyses	Lab Sample Number
01-001	Prior to Discharge to City Sewer	Aqueous	GRAB	<i>7-23</i>	<i>8:00</i>	<i>6</i>	624-106 bod-5210 ph-4500 tss-i-3765-85 dilution nh3-timberline tkn-351.2 og-t-1664	<i>01</i>

Relinquished By _____ Date/Time _____

Received By _____ Date/Time _____

Relinquished By _____ Date/Time _____

Received for Lab By _____ Date/Time _____

Remarks:

Ame KPEI 07-23-25 @ 10:25am



Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

1IH0619

Tama County Landfill

Project Name: Outfall 001

Dave Sherwood
2872 K Avenue
Toledo, IA 52342

Project / PO Number: N/A
Received: 08/06/2025
Reported: 08/19/2025

Analytical Testing Parameters

Client Sample ID:	Prior to Discharge to City Sewer	Collected By:	Sherwood, Dave
Sample Matrix:	Aqueous	Collection Date:	08/06/2025 8:00
Lab Sample ID:	1IH0619-01		

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 624.1							
Benzene	1.9	1.0	ug/L		08/07/25 0000	08/07/25 1206	RAF
Toluene	12.6	1.0	ug/L		08/07/25 0000	08/07/25 1206	RAF
Ethylbenzene	<1.0	1.0	ug/L		08/07/25 0000	08/07/25 1206	RAF
Xylenes, total	2.9	2.0	ug/L		08/07/25 0000	08/07/25 1206	RAF
Surrogate: Dibromofluoromethane	69.5	Limit: 59-123	% Rec		08/07/25 0000	08/07/25 1206	RAF
Surrogate: 1,2-Dichloroethane-d4	57.8	Limit: 56-130	% Rec		08/07/25 0000	08/07/25 1206	RAF
Surrogate: Toluene-d8	97.6	Limit: 85-113	% Rec		08/07/25 0000	08/07/25 1206	RAF
Surrogate: 4-Bromofluorobenzene	87.2	Limit: 82-112	% Rec		08/07/25 0000	08/07/25 1206	RAF

Determination of Conventional Chemistry Parameters	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 1664A							
Oil and Grease	<4	4	mg/L	A14	08/11/25 1031	08/15/25 1030	RDH
EPA 351.2, Rv. 2 (1993)							
Nitrogen, Kjeldahl, total	61.1	2.50	mg/L		08/12/25 0848	08/14/25 1344	AKK
SM 4500-H+ B-2011							
pH	7.1	0.5	pH	H4		08/12/25 1627	BSS
SM 5210 B-2016							
BOD (5 day)	13	6	mg/L	H2	08/11/25 1457	08/11/25 1815	MND
TIMBERLINE							
Nitrogen, Ammonia	56.4	1.00	mg/L		08/06/25 1425	08/06/25 1627	TEP
USGS I-3765-85							
Total Suspended Solids (TSS)	36	1	mg/L		08/06/25 1316	08/07/25 0816	LAW

Definitions

A14:	Sample was preserved with Hydrochloric Acid to pH <2 on receipt.
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.
RL:	Reporting Limit



Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

1IH0619

Report Comments

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Reviewed and Approved By:

Heather Murphy
Customer Relationship Specialist
heather.murphy@microbac.com
08/19/25 14:55

CHAIN OF CUSTODY RECORD



600 East 17th Street South
Newton, IA 50208
Phone: 641-792-8451

PH 7.2

Page 1 of 1

Printed: 7/23/2025 8:03:10AM

Page 3 of 3

SITE INFORMATION

Sampler: *[Signature]*

Project: Leachate Sampling
Outfall 001

REPORT TO

Dave Sherwood
Tama County Landfill
2872 K Avenue
Toledo, IA 52342

INVOICE TO

Dave Sherwood
Tama County Landfill
2872 K Avenue
Toledo, IA 52342

SPECIAL INSTRUCTIONS

None

Turn Around Time

☒ Standard ☐ RUSH, need by ___/___/___



1 I H 0 6 1 9

Tama County Landfill
PM: Heather Murphy

Temperature: 2.0 °C

Number	Sample Identification / Client ID	Matrix	Sample Type	Date	Time	# Containers	Analyses	Lab Sample Number
01-001	Prior to Discharge to City Sewer	Aqueous	GRAB	8-6-25	8:00	6	624-106 bod-5210 ph-4500 tss-i-3765-85 dilution nh3-timberline tkn-351.2 og-t-1664	01

Relinquished By _____ Date/Time _____

Received By _____ Date/Time _____

Relinquished By *[Signature]* Date/Time 8-6-25 10:15

Received for Lab By *[Signature]* Date/Time 8/6/25 10:15

Remarks:



Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

1IH1886

Tama County Landfill

Project Name: Outfall 001

Dave Sherwood
2872 K Avenue
Toledo, IA 52342

Project / PO Number: N/A
Received: 08/20/2025
Reported: 09/02/2025

Analytical Testing Parameters

Client Sample ID:	Prior to Discharge to City Sewer	Collected By:	Sherwood, Dave
Sample Matrix:	Aqueous	Collection Date:	08/20/2025 7:55
Lab Sample ID:	1IH1886-01		

Determination of Volatile Organic Compounds		Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 624.1								
Benzene		<1.0	1.0	ug/L		08/28/25 0000	08/28/25 1342	RAF
Toluene		<1.0	1.0	ug/L		08/28/25 0000	08/28/25 1342	RAF
Ethylbenzene		<1.0	1.0	ug/L		08/28/25 0000	08/28/25 1342	RAF
Xylenes, total		<2.0	2.0	ug/L		08/28/25 0000	08/28/25 1342	RAF
Surrogate: Dibromofluoromethane	101	Limit: 59-123	% Rec			08/28/25 0000	08/28/25 1342	RAF
Surrogate: 1,2-Dichloroethane-d4	104	Limit: 56-130	% Rec			08/28/25 0000	08/28/25 1342	RAF
Surrogate: Toluene-d8	99.4	Limit: 85-113	% Rec			08/28/25 0000	08/28/25 1342	RAF
Surrogate: 4-Bromofluorobenzene	96.7	Limit: 82-112	% Rec			08/28/25 0000	08/28/25 1342	RAF

Determination of Conventional Chemistry Parameters		Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 1664A								
Oil and Grease		<4	4	mg/L	A14	08/27/25 1001	08/29/25 0800	RDH
EPA 351.2, Rv. 2 (1993)								
Nitrogen, Kjeldahl, total	32.2		2.50	mg/L		08/26/25 0858	08/28/25 1159	SGB
SM 4500-H+ B-2011								
pH	7.0		0.5	pH	H4	08/21/25 1619	08/25/25 0646	BSS
SM 5210 B-2016								
BOD (5 day)	11		6	mg/L		08/21/25 1230	08/21/25 1241	MND
TIMBERLINE								
Nitrogen, Ammonia	35.2		1.00	mg/L		08/26/25 1024	08/26/25 1306	BHF
USGS I-3765-85								
Total Suspended Solids (TSS)	18		1	mg/L		08/20/25 1258	08/21/25 0908	LAW

Definitions

A14:	Sample was preserved with Hydrochloric Acid to pH <2 on receipt.
H4:	The test was performed outside of the EPA recommended holding time of 15 minutes.
RL:	Reporting Limit



Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

1IH1886

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
Customer Relationship Specialist
heather.murphy@microbac.com
09/02/25 16:28

CHAIN OF CUSTODY RECORD



600 East 17th Street South
Newton, IA 50208
Phone: 641-792-8451

PH 7.4

Page 1 of 1
Printed: 8/6/2025 8:28:39AM

Page 3 of 3

SITE INFORMATION

Sampler: Dave
Project: Leachate Sampling
Outfall 001

REPORT TO

Dave Sherwood
Tama County Landfill
2872 K Avenue
Toledo, IA 52342

INVOICE TO

Dave Sherwood
Tama County Landfill
2872 K Avenue
Toledo, IA 52342

SPECIAL INSTRUCTIONS

None

Turn Around Time

☒ Standard ☐ RUSH, need by ___/___/___

LAB USE ONLY



1 I H 1 8 8 6

Tama County Landfill

PM: Heather Murphy

Temperature: 1.616 °C

Number	Sample Identification / Client ID	Matrix	Sample Type	Date	Time	# Containers	Analyses	Lab Sample Number
01-001	Prior to Discharge to City Sewer	Aqueous	GRAB	8/20/25	7:55	6	624-106 bod-5210 ph-4500 tss-i-3765-85 dilution nh3-timberline tkn-351.2 og-t-1664	01

Limited Volume

[Signature] 8-20-25 9:12am

Relinquished By _____ Date/Time _____

Received By _____ Date/Time _____

Relinquished By _____ Date/Time _____

Ame Koffi 8-20-25 9:12am
Received for Lab By _____ Date/Time _____

Remarks:



Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

11I0271

Tama County Landfill

Project Name: Outfall 001

Dave Sherwood
2872 K Avenue
Toledo, IA 52342

Project / PO Number: N/A
Received: 09/03/2025
Reported: 09/30/2025

Case Narrative

Amended Report, September 30, 2025: The Ammonia, Nitrogen result originally reported for sample 11I0271-01 was not correct due to an error during the analysis. The sample was re-analyzed and that result is included in this report.

James Eggers
Quality Assurance Officer

Analytical Testing Parameters

Client Sample ID: Prior to Discharge to City Sewer
Sample Matrix: Aqueous
Lab Sample ID: 11I0271-01

Collected By: Sherwood, Dave
Collection Date: 09/03/2025 8:15

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 624.1							
Benzene	1.9	1.0	ug/L		09/15/25 0000	09/15/25 1550	RAF
Toluene	4.4	1.0	ug/L		09/15/25 0000	09/15/25 1550	RAF
Ethylbenzene	<1.0	1.0	ug/L		09/15/25 0000	09/15/25 1550	RAF
Xylenes, total	<2.0	2.0	ug/L		09/15/25 0000	09/15/25 1550	RAF
Surrogate: Dibromofluoromethane	104	Limit: 59-123	% Rec		09/15/25 0000	09/15/25 1550	RAF
Surrogate: 1,2-Dichloroethane-d4	104	Limit: 56-130	% Rec		09/15/25 0000	09/15/25 1550	RAF
Surrogate: Toluene-d8	102	Limit: 85-113	% Rec		09/15/25 0000	09/15/25 1550	RAF
Surrogate: 4-Bromofluorobenzene	95.7	Limit: 82-112	% Rec		09/15/25 0000	09/15/25 1550	RAF
Determination of Conventional Chemistry Parameters	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 1664A							
Oil and Grease	<4	4	mg/L	A14	09/04/25 0935	09/09/25 0730	RDH
EPA 351.2, Rv. 2 (1993)							
Nitrogen, Kjeldahl, total	59.1	5.00	mg/L		09/15/25 0858	09/17/25 1611	SAA
SM 4500-H+ B-2011							
pH	7.6	0.5	pH	H4	09/04/25 1015	09/04/25 1422	BSS
SM 5210 B-2016							
BOD (5 day)	22	6	mg/L		09/04/25 1111	09/04/25 1336	MND
TIMBERLINE							
Nitrogen, Ammonia	89.1	5.00	mg/L		09/23/25 1056	09/24/25 1510	BHF
USGS I-3765-85							
Total Suspended Solids (TSS)	66	1	mg/L		09/03/25 1504	09/05/25 0744	LAW

Definitions

A14: Sample was preserved with Hydrochloric Acid to pH <2 on receipt.
H4: The test was performed outside of the EPA recommended holding time of 15 minutes.
RL: Reporting Limit



Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

1110271

Report Comments

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Reviewed and Approved By:

Heather Murphy

Customer Relationship Specialist

heather.murphy@microbac.com

09/30/25 16:20

CHAIN OF CUSTODY RECORD



600 East 17th Street South
Newton, IA 50208
Phone: 641-792-8451

Page 1 of 1
Printed: 8/20/2025 8:08:26AM

Page 3 of 3

SITE INFORMATION

Sampler: Dave
Project: Leachate Sampling
Outfall 001

REPORT TO

Dave Sherwood
Tama County Landfill
2872 K Avenue
Toledo, IA 52342

INVOICE TO

Dave Sherwood
Tama County Landfill
2872 K Avenue
Toledo, IA 52342

SPECIAL INSTRUCTIONS

None

Turn Around Time

☐ Standard ☐ RUSH, need by ___/___/___

LAB USE ONLY



1 I I 0 2 7 1

Tama County Landfill
PM: Heather Murphy

Temperature: 0.0 °C

Number	Sample Identification / Client ID	Matrix	Sample Type	Date	Time	# Containers	Analyses	Lab Sample Number
01-001	Prior to Discharge to City Sewer	Aqueous	GRAB	9/3/25	8:15	6	624-106 bod-5210 ph-4500 tss-i-3765-85 dilution nh3-timberline tkn-351.2 og-t-1664	01

[Signature] 9/3/25 11:02
Relinquished By Date/Time

[Signature] 9/3/25 11:02
Relinquished By Date/Time
Received for Lab By Date/Time

Remarks:

Received By Date/Time



Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

1IK1285

Tama County Landfill

Project Name: Outfall 001

Dave Sherwood
2872 K Avenue
Toledo, IA 52342

Project / PO Number: N/A
Received: 11/18/2025
Reported: 12/03/2025

Analytical Testing Parameters

Client Sample ID: Prior to Discharge to City Sewer
Sample Matrix: Aqueous
Lab Sample ID: 1IK1285-01

Collected By: Sherwood, Dave
Collection Date: 11/18/2025 9:10

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 624.1							
Benzene	<1.0	1.0	ug/L		11/20/25 0000	11/20/25 1219	RAF
Toluene	<1.0	1.0	ug/L		11/20/25 0000	11/20/25 1219	RAF
Ethylbenzene	<1.0	1.0	ug/L		11/20/25 0000	11/20/25 1219	RAF
Xylenes, total	<2.0	2.0	ug/L		11/20/25 0000	11/20/25 1219	RAF
Surrogate: Dibromofluoromethane	95.2	Limit: 59-123	% Rec		11/20/25 0000	11/20/25 1219	RAF
Surrogate: 1,2-Dichloroethane-d4	88.1	Limit: 56-130	% Rec		11/20/25 0000	11/20/25 1219	RAF
Surrogate: Toluene-d8	97.0	Limit: 85-113	% Rec		11/20/25 0000	11/20/25 1219	RAF
Surrogate: 4-Bromofluorobenzene	96.8	Limit: 82-112	% Rec		11/20/25 0000	11/20/25 1219	RAF
Inorganics Total	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 351.2, Rv. 2 (1993)							
Nitrogen, Kjeldahl, total	1.55	1.00	mg/L			12/02/25 0807	AKK
SM 5210 B-2016							
Biochemical Oxygen Demand (BOD5)	7	6	mg/L	B	11/18/25 1421	11/23/25 1606	MND
USGS I-3765-85							
Total Suspended Solids (TSS)	5	1	mg/L		11/19/25 0723	11/19/25 0943	LAW
General Parameters	Result	RL	Units	Note	Prepared	Analyzed	Analyst
SM 4500-H+ B-2011							
pH	7.5	0.5	pH	H4	11/18/25 1610	11/19/25 1537	BSS
n-Hexane Extractable Material by Gravimetric	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 1664A							
Oil and Grease	126	4	mg/L		11/26/25 1335	12/01/25 1015	RDH
Determination of Conventional Chemistry Parameters	Result	RL	Units	Note	Prepared	Analyzed	Analyst
TIMBERLINE							
Nitrogen, Ammonia	29.5	1.00	mg/L		11/19/25 0920	11/24/25 1215	BHF

Definitions

B: The target analyte was detected in the blank at or above the method acceptance criteria.
H4: The test was performed outside of the EPA recommended holding time of 15 minutes.
RL: Reporting Limit



Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

1IK1285

Report Comments

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Reviewed and Approved By:

Heather Murphy

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12/03/25 14:19

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PH 7.0

Page 1 of 1

Printed: 9/3/2025 8:31:19AM

Page 3 of 3

SITE INFORMATION

Sampler: Dave
Project: Leachate Sampling
Outfall 001

REPORT TO

Dave Sherwood
Tama County Landfill
2872 K Avenue
Toledo, IA 52342

INVOICE TO

Dave Sherwood
Tama County Landfill
2872 K Avenue
Toledo, IA 52342

SPECIAL INSTRUCTIONS

None

Turn Around Time

☒ Standard ☐ RUSH, need by ___/___/___

LAB USE ONLY



1 I K 1 2 8 5

Tama County Landfill
PM: Heather Murphy

Temperature: 3.2 °C

Vice

Number	Sample Identification / Client ID	Matrix	Sample Type	Date	Time	# Containers	Analyses	Lab Sample Number
01-001	Prior to Discharge to City Sewer	Aqueous	GRAB	11-18-25	9:10	6	624-106 bod-5210 ph-4500 tss-i-3765-85 dilution nh3-timberline tkn-351.2 og-t-1664	01

Relinquished By
Date/Time 11-18-25

Received By
Date/Time

Relinquished By
Date/Time 11-18-25 11:01
Received for Lab By
Date/Time

Remarks:

Appendix G.4 – Leachate Recirculation Volumes

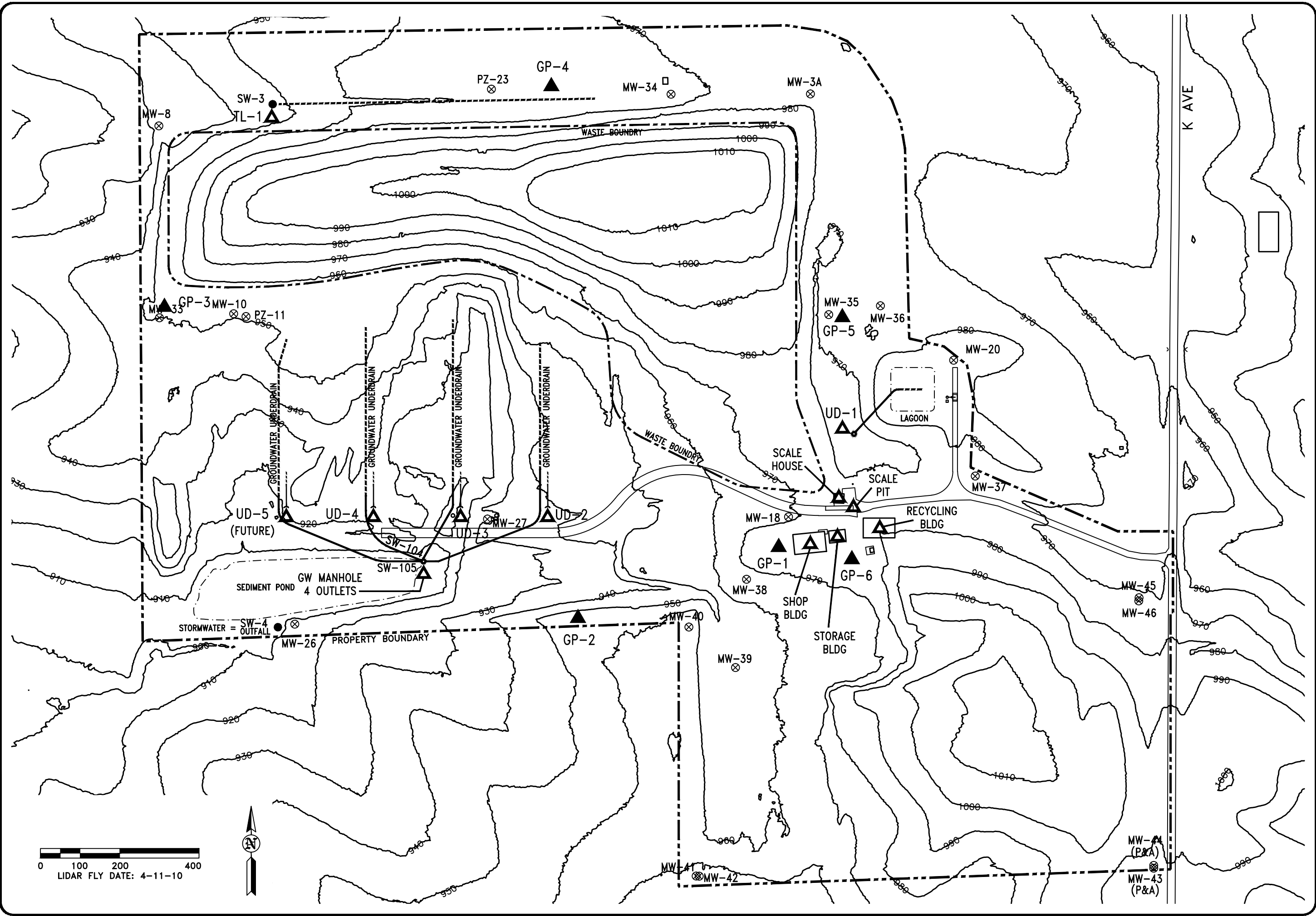
Leachate Recirculation - Surface Application Tama County Sanitary Landfill 2025

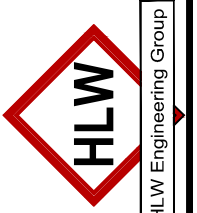
APRIL		MAY		SEPTEMBER		OCTOBER	
Date	Gallons	Date	Gallons	Date	Gallons	Date	Gallons
4/3/2025	4,200	5/14/2025	12,600	9/11/2025	4,200	10/1/2025	8,400
4/4/2025	2,100			9/12/2025	4,200		
4/7/2025	14,700			9/26/2025	4,200		
4/8/2025	21,000						
4/9/2025	16,800						
4/10/2025	10,500						
4/11/2025	4,200						
4/14/2025	37,800						
4/16/2025	16,800						
TOTAL	128,100		12,600		12,600		8,400
							161,700 Gallons

Appendix H

Gas Monitoring Report

Appendix H.1- Gas Monitoring Location Map





HLW Engineering Group
204 West Broad Street, P.O. Box 314
Story City, Iowa 50248
Phone: (515) 733-4144
FAX: (515) 733-4146

GAS MONITORING POINTS
TAMA COUNTY SANITARY LANDFILL
TOLEDO, IOWA

FIGURE: 4

REVISION	NO.	DATE
DRAWN	6000	DATE
DRA		10-4-25