

2025 ANNUAL GROUNDWATER QUALITY REPORT

FOR THE

BREMER COUNTY SANITARY LANDFILL

9-SDP-1-75C

BREMER COUNTY, IOWA

by:

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6035-25A.320

Table of Contents

Certification

Section 1.0 Background Information

Monitoring Well Maintenance Performance Reevaluation

Section 2.0 Reporting Period Activities

Section 3.0 Data Evaluation and Summary

Quality Assurance/Quality Control

Background data Validation

Site Specific GWPS

Statistically Significant Increases/Exceedances of Prediction Limits

Assessment Monitoring

Statistically Significant Levels

Assessment of Corrective Measures

Corrective Action Evaluations & Monitoring

Section 4.0 Leachate Collection System Performance Reevaluation

Section 5.0 Gas Monitoring Evaluation

Section 6.0 Recommendations

Figures

Figure 1 – Entire Site Plan

Figure 2 – Site Plan & Gas Monitoring Locations

Figure 3 – Water Table Contour Map

Tables in IDNR Format

Table 1 – Monitoring Program Summary

Table 2 – Monitoring Program Implementation Schedule

Table 2A – Summary of Water Testing to Date

Table 3 – Monitoring Well Maintenance Performance Reevaluation Schedule

Table 4 – Monitoring Well Maintenance Performance Reevaluation Summary

Table 4A – Summary of Water Elevations Over Time

Table 5 – Background and GWPS Summary

Table 6 – Summary of Detections

Table 7 – Summary of Ongoing and Newly Identified SSI

Table 8 - Summary of Ongoing and Newly Identified SSL

Table 9 – Analytical Data Summary

Table 10 – Confidence Limit Evaluation

Table 11 – Corrective Action Trend Analysis – *Not Required (see Table 10)*

Table 12 – *Leachate Levels – Not Required*

Table 13 – Gas Monitoring Summary

Appendices

Appendix A - Field Sampling Forms

Appendix B - Statistical Reports

Appendix C - Laboratory Reports for Report Period

Appendix D – Turbidity

Appendix E – Prediction Limit Exceedances

Appendix F - Assessment Monitoring Results

Acronyms/Abbreviations:

ACM = Assessment of Corrective Measures

CAMP = Corrective Action Monitoring Plan

CL = Control Limit - Mean plus Two Standard Deviations

DO = Dissolved Oxygen

DQR = Double Quantification Rule

GWPS = Groundwater Protection Standard

LEL = Lower Explosive Limit

LCL = Lower Confidence Limit

LN = Lognormal

MCL = EPA Maximum Contaminant Level

N = Normal

NC = No Change

NP = Non-Parametric

ORP = Oxidation Reduction Potential

P = Parametric

PL = Prediction Limit

RL = Reporting Limit

SS = DNR Statewide Standard for a protected groundwater source

SSI = Statistically Significant Increase above background

SSL = Statistically Significant Level above groundwater protection standard

UCL = Upper Confidence Limit

Certification

Prepared by: 

Date: 1-12-2026

Printed: Todd Whipple, CPG

Section 1.0 Background Information

1.1 Report Format

Table 1 through Table 13 are attached to this report and satisfy the IDNR requirement to provide the tables to meet the IDNR format requirements included in Permit Amendment #6, dated April 2, 2018 (Doc #91937).

1.2 Report Priority

This report concludes that detection and assessment/corrective action monitoring have been stable over time and should continue on an annual basis until IDNR allows the site Owner to develop an Environmental Covenant for the site and end regulation under Iowa Administrative Code (IAC) 567, Chapter 113.

1.3 Period of Report Coverage

Water quality data evaluation is based on a running compilation of data beginning in October 15, 2014. Statistical evaluations herein are based on the Annual 2025 water quality data collected October 13, 2025.

1.4 Current Site Map

Figure 1 and Figure 2 are attached illustrating the current site features, gas probe locations, and monitoring well locations.

1.5 Site Status and Applicable Rules

Site Location

The Bremer County Sanitary Landfill is located in the NE $\frac{1}{4}$ of the SW $\frac{1}{4}$ of Section 23, T92N, R13W, Bremer County, Iowa (Figure 1). Waste deposition areas at the site encompass approximately 27 acres (Figure 2). The facility operates under Iowa Department of Natural Resources (IDNR) Closure Permit No. 9-SDP-1-75C.

Landfill History, Layout, and Hydrology

The facility includes two closed landfilling areas, an area of approximately 4 acres closed prior to 1975 with a 2' soil cap and an area of approximately 23 acres closed in 2008 with a 4' soil cap. Cap repair at the site and improvements to an additional 0.46 acres of cap were completed in 2019 (Doc #95921).

The site is situated in gently rolling terrain and adjacent properties are cultivated farm ground. Surface runoff from the landfill property flows in different directions controlled by the topographic surface. Surface runoff from the western parts of the site flows into Quarter Section Run; runoff from the northern portion of the site flows to the westward flowing intermittent stream north of the site; runoff from the eastern parts of the site flows to a drainage ditch along the east boundary of the site; runoff from the southern portion of the site flows to a drainage ditch along the south boundary of the site. All site drainage ultimately ends up in Quarter Section Run.

Groundwater flow in the glacial till soils is from east to west across the site as illustrated in Figure 3.

Applicable Rules

Groundwater monitoring at the site is conducted in accordance with Iowa Administrative Code (IAC) 567-113 as per the variance approved on August 28, 2012.

1.6 Summary of Hydrologic Monitoring System Plan (HMSP)

Monitoring Well Maintenance Performance Reevaluation activities associated with the HMSP monitoring wells are discussed in the report section below.

The frequency of assessment monitoring was relaxed to a five (5) year frequency by Permit Amendment #4, dated July 14, 2015 (Doc# 83873). The current HMSP includes seven (7) monitoring wells. MW-1 and MW-2A are the designated background/upgradient wells for the facility. The Site Plan and the approved monitoring network are illustrated on Figure 2. The current HMSP is summarized in Table 1. The HMSP Implementation Schedule for 2026 is itemized per Permit Amendment #9, dated May 17, 2024 (Doc #110105) - see Table 2.

MONITORING WELL MAINTENANCE PERFORMANCE REEVALUATION

Table 3 outlines the status of well performance and maintenance activities performed as required by IAC 567-113.10(2) f. Note that some semi-annual tasks are reduced to an annual frequency based on approvals for annual water sampling, annual gas monitoring, and annual inspections (see Doc #109724).

High & Low Water Levels

Current year water elevation data is included on Table 4. Historic water elevation data is included in the Table 4A. The maximum depth to water and the minimum depth to water are included in the tables. It appears that limited variation in the recorded water table are observed seasonally over time. A Water Table Contour Map (Figure 3) dated October 2025 is included with this report. The Water Table Contour Map illustrates the water table surface and the effects of the topography.

Well Depth & Sedimentation

Well depth measurements were made on October 13, 2025. Review of the well depth data included on Table 4 indicates that well sedimentation is estimated to be less than one (1.0) foot, except at MW-3 where 1.1 feet of sedimentation is recorded.

Well Recharge Rates & Chemistry

The originally measured horizontal hydraulic conductivity testing results (1991) for each site monitoring well is included on Table 4. Horizontal hydraulic conductivities ranged between 10^{-3} cm/sec and 10^{-5} cm/sec.

Review of the recorded field data on Table 4 for the April 9, 2024 sampling episode indicate that water levels within each well recover to approximately 100% in wells MW-3, MW-4, MW-105B, MW-108A, and MW-110A within 2 hours. Full recovery appears to require greater than 12 hours following purging at MW-1 and MW-2A. 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 annual water elevation data (in alternating seasons) 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 site monitoring wells are recommended.

Section 2.0 Reporting Period Monitoring Activities

Prior to April 9, 2012, monitoring was performed according to Iowa Administrative Code 567-103 and 113 that predates current IAC 567, Chapter 113. For a summary of testing performed under the previous rule see document #79355. In addition, full Appendix II samples were collected from all site monitoring points on 4/4/2009, except MW-2A (installed in 2013). A summary of the Appendix II sample collection events at each well is included in Table 2. A comprehensive summary of all sampling episodes (beginning April 9, 2012) to date are included in Table 2A.

Field sampling information for the October 13, 2025 sampling episode is included on the field forms (IDNR Form 542-1322) in Appendix A.

A comprehensive summary of Analytical Data for the episodes between October 15, 2014, and October 13, 2025 is included in Table 9.

2.1 Current Detection Monitoring Activities

Background wells are MW-1 and MW-2A. Downgradient monitoring wells for the Closed facility are MW-3, MW-4, MW-105B, MW-108A, and MW-110A.

2.2 Current Assessment Monitoring Activities

Site monitoring points that are currently in Assessment Monitoring are limited to MW-4 and MW-105B. Appendix II sampling (assessment monitoring) is required. The frequency of assessment monitoring was relaxed to a five (5) year frequency by Permit Amendment #4, dated July 14, 2015 (Doc# 83873).

Bis (2-ethylhexyl)phthalate and Methyl Parathion are the only compounds detected during the assessment monitoring. The compounds were detected infrequently. A summary of detected Bis (2-ethylhexyl)phthalate and Methyl Parathion results is included in Appendix F.

The bis (2-ethylhexyl)phthalate testing frequency is now 1 time per five (5) years in accordance with the approval dated April 18, 2017 (Doc #89126).

The methyl parathion testing frequency is now 1 time per five (5) years in accordance with the approval dated February 6, 2017 (Doc #88343).

On-going annual assessment monitoring at MW-4 and MW-105B will include Appendix I, except during the full Appendix II sampling required every five (5) years.

2.3 Current Corrective Action Monitoring Activities

MW-108A and MW-110A are designated as Supplemental Wells. MW-3 and MW-4 are Step-Out Corrective Action Monitoring Wells (Attenuation Zone Point of Compliance (AZPOC) Wells) for MW-108A and MW-110A, respectively.

Corrective Actions in place at the facility (since 2008) are limited to the demonstrated natural attenuation of compounds between the Supplemental Wells and the AZPOC Wells. MW-3 and MW-4 water quality is compared against the GWPS in order to determine whether corrective actions are sufficient at this facility.

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 Bremer County Sanitary Landfill, Annual Monitoring Event in 2025, dated November, 2025 is included in Appendix B.

The Analytical Reports for the laboratory testing of samples collected October 13, 2025, are included in Appendix C.

QUALITY ASSURANCE/QUALITY CONTROL

A blind duplicate sample was collected at MW-1 during the October 13, 2025, annual 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 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 for October 13, 2025, were within the limits established and indicate that the data quality is acceptable without restriction.

BACKGROUND DATA VALIDATION

On July 10, 2014 an unnumbered Permit Amendment and Memo was issued by the IDNR regarding turbidity (Doc # 80725). A TSS and Field Turbidity Evaluation Report was prepared and submitted on March 2, 2015 (Doc# 82594) and was approved by IDNR on July 14, 2015 (Doc #83874).

The background data has been restricted to include only sample results that have been collected by “No Purge” methods in order to avoid turbidity related issues that may have been related to historic sample collection methods. A summary table of field measured turbidity is included in Appendix D.

Upgradient Data, Table 1, Attachment B, to the November, 2025 Statistical Evaluation Report (Appendix B) includes a summary of the background data. The site prediction limits established in the Statistical Evaluation Report (Appendix B) are based on the validated background data. The calculated Prediction Limits are summarized on Table 5.

SITE SPECIFIC GWPS

The information included on Table 5 indicates that all calculated Prediction Limits are below the applicable GWPS. Therefore, there is no need to develop a Site-Specific Groundwater Protection Standard for any compound. The published IAC 567, Chapter 137 Statewide Standard are utilized as the GWPS herein.

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 in excess of 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 detection 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. There were no verified prediction limit exceedance recorded in the current detection monitoring system wells. MW-1, MW-2A, and MW-3 remain in the detection monitoring system.

A detection of bis(2-ethylhexyl)phthalate was recorded at MW-105B and constitutes an exceedance of the prediction limit. There were no verified prediction limit exceedance recorded in MW-4. MW-4 and MW-105B remain in the assessment monitoring system.

Prediction limit exceedances are recorded (Table 6) at wells that are included in the Corrective Action monitoring system (MW-108A and MW-110A). 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 are summarized in Table 6. A running summary of recorded Prediction Limit exceedances by year is included in Appendix E. This report serves as notice to the operating record in accordance with IAC 567-113.10(5)c.

Summaries of the current prediction limit exceedances are discussed on pages 3 and 4 of the Otter Creek Report (Appendix B) and are summarized on Table 6 and Table 7.

ASSESSMENT MONITORING SUMMARY

Assessment monitoring (Appendix II sampling) is performed at each well where an SSI has been recorded. At least four (4) full rounds of Appendix II assessment monitoring has been completed at MW-105B (Assessment Monitoring), MW-108A (now Corrective Action Monitoring), and MW-110A (now Corrective Action Monitoring). The second round of Appendix II sampling is completed at MW-4. The most recent Appendix II sampling episode at each well is listed in Table 2.

Assessment monitoring is required to be repeated annually per IAC 567-113.10(6)b. However, assessment monitoring for full Appendix II was relaxed to a five (5) year frequency by Permit Amendment #4, dated July 14, 2015 (Doc# 83873). The next full Appendix II sampling events are due in 2027 (Table 2).

Compounds detected to date beyond the Appendix I list are limited to bis(2-ethylhexyl)phthalate and methyl parathion.

Bis (2-ethylhexyl)phthalate testing frequency is now 1 time per five (5) years in accordance with the approval dated April 18, 2017 (Doc #89126). Methyl Parathion testing frequency is now 1 time per five (5) years in accordance with the approval dated February 6, 2017 (Doc #88343).

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

STATISTICALLY SIGNIFICANT LEVELS (SSL)

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

The SSL Evaluation is based on data collected since April 11, 2016. 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 and Table 10. The yellow highlights in Table 7 indicate a 95% LCL value that exceeds the GWPS.

Based on the findings to date, the following SSL have been identified:

MW-108A – arsenic
MW-110A – arsenic and cobalt

ASSESSMENT OF CORRECTIVE MEASURES (ACM)

The IDNR approved that the spirit of the ACM had been satisfied by historic site activities and explorations performed under rules that predate current rule (Doc #91572). The remedy is

established as Monitored Natural Attenuation (MNA). MW-108A and MW-110A are designated as Supplemental Wells located within the plume, while the respective AZPOC Wells are MW-3 and MW-4.

Sixteen gas vents (GV-1 through GV-16) were installed in 2022 (illustrated on Figure 2) and add a source control component to the MNA remedy.

CORRECTIVE ACTION MONITORING & EVALUATIONS

The SSL are currently limited to Supplemental Wells MW-108A (arsenic) and MW-110A (arsenic and cobalt). Supplemental Wells do not require evaluation in the MNA remedy. However, comparison of the 95% UCL to the GWPS for Supplemental MW-108A and MW-110A are offered in Table 8. The green highlights in Table 8 indicate the 95% UCL values that exceed the GWPS.

MW-3 and MW-4 are AZPOC Wells to monitor the effectiveness of the natural attenuation that is observed between the supplemental well (MW-108A and MW-110A) and each respective AZPOC Well (MW-3 and MW-4).

The Confidence Interval (95% LCL to 95% UCL) at MW-3 and MW-4 is calculated and compared to the applicable GWPS to evaluate the performance of the Corrective Action Systems. Corrective Action is considered complete when the 95% UCL value is below the applicable GWPS for a minimum of three (3) years at the Point of Compliance (AZPOC Well(s) MW-3 and MW-4).

The 95% UCL evaluations for AZPOC Wells (MW-3 and MW-4) are presented in Table 10. The 95% LCL and 95% UCL for AZPOC Wells (MW-3 and MW-4) in Table 10 indicate the Corrective Action has been complete for more than three (3) years, in fact, the 95% LCL and the 95% UCL values for arsenic (MW-108A) and/or arsenic and cobalt (MW-110A) have never exceeded the GWPS at MW-3 or MW-4 and the remedy has been complete since at least 2018 (probably longer).

It appears that the natural attenuation processes combined with gas venting is a sufficient corrective action at this facility and is deemed sufficient moving forward.

Based on the demonstrated and effective success of the MNA/Source Control corrective action, it seems that an Environmental Covenant (EC) may be applicable to this facility in lieu of the Closure Permit.

Section 4.0 Gas Monitoring

Explosive gas monitoring is performed per 113.9(2) and the approved GMSP and was conducted annually during the 2025 reporting period. Permit Amendment #9 dated May 17, 2024 (Doc # 110105) reduced the frequency of gas monitoring to annual.

Monitoring points include the five (5) subsurface gas probes, the buildings on site, and the scale pit. Figure 2 illustrates the locations of gas monitoring points.

Following seeding efforts in 2019, numerous areas of stressed vegetation were noted on the cap during inspections in 2020 and 2021. It was concluded that the stressed areas were caused primarily

by landfill gas migration through the closure cap. In an effort to improve the cap vegetation, gas vents were installed at sixteen (16) locations on the cap where vegetation had been noted as stressed. The gas venting project was completed June 2, 2022 and Construction Certification Documentation was submitted to IDNR on July 15, 2022 (Doc #103616). The gas vents also serve as an Source Control related to the MNA Corrective Action.

The gas vents are illustrated on Figure 2. The sixteen Gas Vents (GV-1 through GV-16) were monitored on October 13, 2025, in order to determine whether gas is passively vented at each gas vent. The 2025 monitoring results indicate that the vents are productive and are venting gas.

A summary table of gas monitoring for 2025 is included as Table 13 and includes the results of the monitoring at the sixteen vents.

Note that the amount of exposed screen in the vadose zone at each subsurface gas probe (GP-1 through GP-5) was recorded on October 13, 2025, in order to document that the screened interval of each probe is exposed to the vadose zone. This information is included on Table 13. Review of Table 13 indicates that GP-1, GP-2, GP-3, and GP-5 have screen exposed to the vadose zone. GP-4 was broken during the site visit on October 13, 2025.

Explosive gas concentrations are recorded as percent lower explosive limit (%LEL). Subsurface gas monitoring results were again below actionable levels during the monitoring episodes.

Section 5.0 Recommendations/Requests

This report concludes that detection and assessment/corrective action monitoring have been sufficient over time to document the stable nature of water quality across the site.

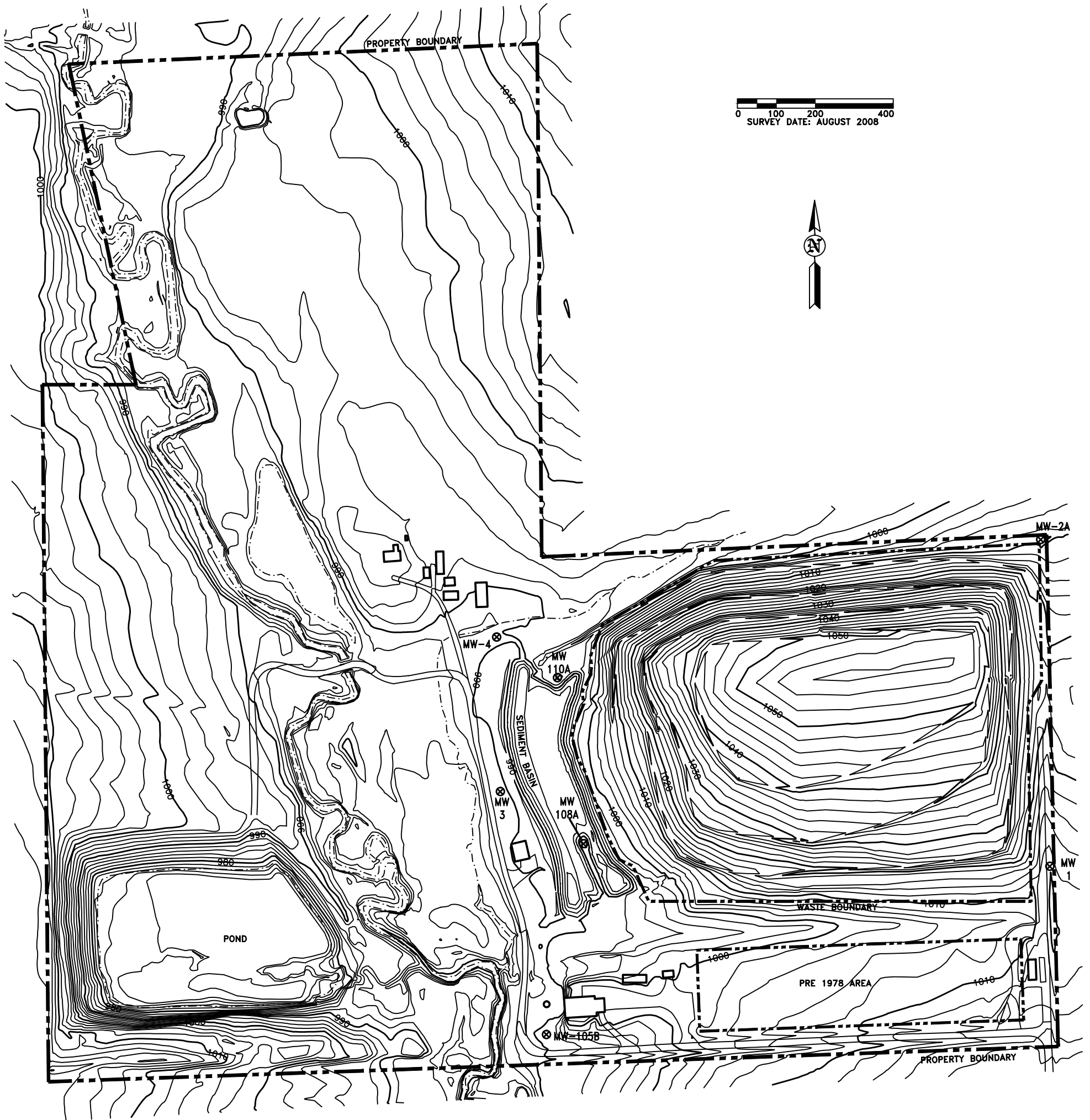
The Owner desires to end regulatory oversight of the post-closure monitoring. The Owner desires to adopt an Environmental Covenant for the facility and have the Closure Permit rescinded. We request IDNR participation in developing an Environmental Covenant for the facility in order to rescind the Closure Permit for the facility. We request a site visit by IDNR in the Spring of 2026 as the initial step in proceeding with the Environmental Covenant.

We request that IDNR suspend requirements for further sampling and testing in 2026 while the Environmental Covenant process is underway.

Groundwater monitoring should continue as outlined in Table 2 in the event that the IDNR does not respond with approval of the recommended course to pursue an Environmental Covenant in 2026.

Subsurface gas probe GP-4 should be repaired.

Figures

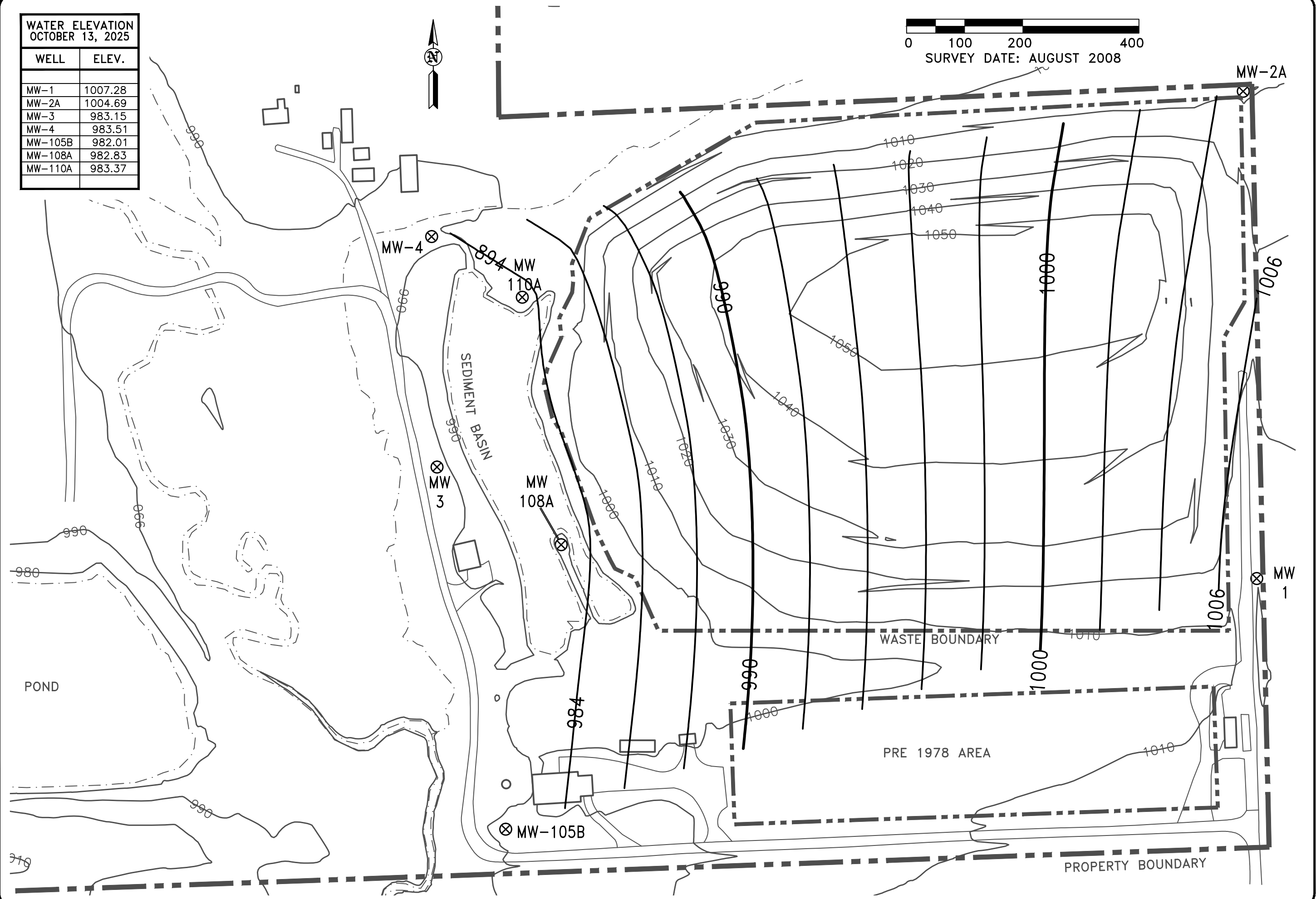


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SITE PLAN
BREMER COUNTY SANITARY LANDFILL
WAVERLY, IOWA

FIGURE: 1		
REVISION	NO.	DATE
DRAWN DRA	PROJECT NO. 6035	DATE 10-25-25

WATER ELEVATION OCTOBER 13, 2025	
WELL	ELEV.
MW-1	1007.28
MW-2A	1004.69
MW-3	983.15
MW-4	983.51
MW-105B	982.01
MW-108A	982.83
MW-110A	983.37





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GROUNDWATER CONTOURS
BREMER COUNTY SANITARY LANDFILL
WAVERLY, IOWA

FIGURE: 3

REVISION	NO.	DATE
DRAWN	6035	10-25-25
DRA		

Tables (in IDNR Format)

Table Index

Table 1 – Monitoring Program Summary
Table 2 – Monitoring Program Implementation Schedule
Table 2A – Summary of All Well Testing
Table 3 – Monitoring Well Maintenance Performance Reevaluation Schedule
Table 4 – Monitoring Well Maintenance Performance Reevaluation Summary
Table 4A – Historic Water Elevation Data
Table 5 – Background and GWPS Summary
Table 6 – Summary of Detections
Table 7 – Summary of Ongoing and Newly Identified SSI
Table 8 - Summary of Ongoing and Newly Identified SSL
Table 9 – Analytical Data Summary
Table 10 – Confidence Limit Evaluation
Table 11 – Corrective Action Trend Analysis – <i>Not Required (see Table 10)</i>
Table 12 – <i>Leachate Levels – Not Required</i>
Table 13 – Gas Monitoring Summary

Table 1 – Monitoring Program Summary

Table 1
Monitoring Program Summary
Annual Water Quality Report
Bremer County Sanitary Landfill
Permit No. 09-SDP-01-75C

Monitoring Well	Formation	Current Monitoring Program	Change for next sampling event	Constituents w/ SSI	Constituents w/ SSL	Total # of Samples in each monitoring program since October 15, 2014		
						Detection	Assessment	Corrective Action
MW-1	Weathered Till	Background	NC	None	None	24	0	0
MW-2A	Weathered Till	Background	NC	None	None	24	0	0
MW-3	Weathered Till	Detection & AZPOC	NC	None	None	24	0	0
MW-4	Weathered Till	Assessment & AZPOC	NC	None	None	0	24	0
MW-105B	Weathered Till	Assessment	NC	bis (2-ethylhexyl)phthalate	None	0	24	0
MW-108A	Weathered Till	Supplemental	NC	arsenic, cadmium, cobalt, nickel	arsenic	0	0	24
MW-110A	Weathered Till	Supplemental	NC	arsenic, barium, cobalt, 1,4-dichlorobenzene, benzene, chlorobenzene, chloroethane	arsenic, cobalt	0	0	24

AZPOC = Attenuation Zone Point of Compliance

Supplemental = Impacted Well located in the area impacted.

Table 2 – Monitoring Program Implementation Schedule

Table 2
Monitoring Program Implementation Schedule
Annual Water Quality Report
Bremer County Sanitary Landfill
Permit No. 09-SDP-01-75C

Monitoring Well	Recent Sampling Dates and Constituents	Upcoming Sampling Dates and Constituents		Full Appendix II Sample Dates	
		April, 2026	October, 2026	Previously Collected	Next Event
MW-1	See Table 2A	Appendix I	---	4/4/2009	N/A
MW-2A		Appendix I	---	N/A	N/A
MW-3		Appendix I	---	4/4/2009	N/A
MW-4		Appendix I	---	4/4/2009, 10/25/2022	Fall of 2027
MW-105B		Appendix I	---	4/4/2009, 10/15/2014, 9/22/2015, 10/15/2020, 10/13/2025	Fall of 2030
MW-108A		Appendix I	---	4/4/2009, 10/15/2014, 9/22/2015, 10/15/2020	N/A
MW-110A		Appendix I	---	4/4/2009, 10/7/2013, 4/17/2014, 4/8/2019, 4/9/2024	N/A

Table 2A – Summary of All Well Testing

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

<u>WELL</u>	<u>4/4/09</u>	<u>4/9/12</u>	<u>9/10/12</u>	<u>4/15/13</u>	<u>10/7/13</u>	
MW-1 (b)	Appendix II	Appendix I	Appendix I	Appendix I	Appendix I	
MW-2 (b)	Appendix II	Appendix I	Appendix I	Appendix I	---	
MW-2A (b)	---	---	---	---	Dry	
MW-3	Appendix II	Appendix I	Appendix I	Appendix I	Appendix I	
MW-4	Appendix II	Appendix I	Appendix I	Appendix I	Appendix I	
MW-105B	Appendix II	Appendix I	Appendix I	Appendix I	Appendix I	
MW-108A	Appendix II	Appendix I	Appendix I	Appendix I	Appendix I	
MW-110A	Appendix II	Appendix I	Appendix I	Appendix I	Appendix II	
SW-3A	Appendix II	Appendix I ⁽¹⁾	Dry	Appendix I ⁽¹⁾	Dry	
SW-4	---	Appendix I	Dry	Appendix I	Dry	
<u>WELL</u>	<u>4/17/14</u>	<u>10/15/14</u>	<u>1/12/15</u>	<u>4/13/15</u>	<u>7/21/15</u>	
MW-1 (b)	Appendix I	Appendix I	Appendix I	Appendix I	Appendix I	
MW-2A (b)	Appendix I	Appendix I	Appendix I	Appendix I	Appendix I	
MW-3	Appendix I	Appendix I	R-ni	Appendix I	---	
MW-4	Appendix I	Appendix I	R-co	Appendix I	---	
MW-105B	Appendix I	Appendix II	---	Appendix I ⁽¹⁾	---	
MW-108A	Appendix I	Appendix II	---	Appendix I ⁽²⁾	---	
MW-110A	Appendix II	Appendix I ⁽³⁾	---	Appendix I ⁽³⁾	---	
SW-3A	Appendix I ⁽¹⁾	Appendix I ⁽¹⁾	---	Appendix I ⁽¹⁾	R-pb	
SW-4	Appendix I	Appendix I	---	Appendix I	---	
Duplicate	At SW-3A	At MW-4	---	At MW-4	---	
<u>WELL</u>	<u>9/22/15</u>	<u>12/30/15</u>	<u>4/11/16</u>	<u>10/12/16</u>	<u>4/13/17</u>	<u>10/25/17</u>
MW-1 (b)	Appendix I		Appendix I	Appendix I	Appendix I	Appendix I
MW-2A (b)	Appendix I		Appendix I	Appendix I	Appendix I	Appendix I
MW-3	Appendix I		Appendix I	Appendix I	Appendix I	Appendix I
MW-4	Appendix I	R-co	Appendix I	Appendix I	Appendix I	Appendix I
MW-105B	Appendix II	R-co	Appendix I ⁽¹⁾	Appendix I ⁽¹⁾	Appendix I ⁽¹⁾	Appendix I
MW-108A	Appendix II		Appendix I ⁽²⁾	Appendix I ⁽²⁾	Appendix I	Appendix I
MW-110A	Appendix I ⁽³⁾		Appendix I ⁽³⁾	Appendix I ⁽³⁾	Appendix I	Appendix I
Duplicate	At MW-105B		At MW-108A	At MW-1	At MW-105B	At MW-2A
<u>WELL</u>	<u>1/12/18</u>	<u>4/12/18</u>	<u>10/16/18</u>	<u>4/18/19</u>	<u>10/15/19</u>	
MW-1 (b)		Appendix I	Appendix I	Appendix I	Appendix I	
MW-2A (b)		Appendix I	Appendix I	Appendix I	Appendix I	
MW-3		Appendix I	Appendix I	Appendix I	Appendix I	
MW-4		Appendix I	Appendix I	Appendix I	Appendix I	
MW-105B	R - co + zn	Appendix I	Appendix I	Appendix I	Appendix I	
MW-108A	R - co + ni + benzene	Appendix I	Appendix I	Appendix I	Appendix I	
MW-110A		Appendix I	Appendix I	Appendix II	Appendix I	
Duplicate		At MW-1	At MW-2A	At MW-110A	At MW-1	

<u>WELL</u>	<u>1/9/20</u>	<u>4/6/20</u>	<u>10/15/20</u>	<u>4/12/2021</u>	<u>7/1/2021</u>	<u>10/6/2021</u>
MW-1 (b)		Appendix I	Appendix I	Appendix I		Appendix I
MW-2A (b)		Appendix I	Appendix I	Appendix I		Appendix I
MW-3		Appendix I	Appendix I	Appendix I		Appendix I
MW-4		Appendix I	Appendix I	Appendix I	R - Co	Appendix I
MW-105B	R - Cd	Appendix I	Appendix II	Appendix I		Appendix I
MW-108A		Appendix I	Appendix II	Appendix I		Appendix I
MW-110A		Appendix I	Appendix I	Appendix I		Appendix I
Duplicate		At MW-110A	At MW-105B	At MW-108A		At MW-1

<u>WELL</u>	<u>4/14/2022</u>	<u>7/13/2022</u>	<u>10/25/2022</u>	<u>1/9/2023</u>	<u>4/19/2023</u>	<u>10/23/2023</u>
MW-1 (b)	Appendix I		Appendix I		Appendix I	Appendix I
MW-2A (b)	Appendix I		Appendix I		Appendix I	Appendix I
MW-3	Appendix I		Appendix I	R - Co	Appendix I	Appendix I
MW-4	Appendix I	R - Co	Appendix II	R – bis(2EHP)	Appendix I	Appendix I
MW-105B	Appendix I		Appendix I		Appendix I	Appendix I
MW-108A	Appendix I		Appendix I		Appendix I	Appendix I
MW-110A	Appendix I		Appendix I		Appendix I	Appendix I
Duplicate	At MW-105B		At MW-2A		At MW-1	At MW-4

<u>WELL</u>	<u>4/9/2024</u>	<u>6/13/2024</u>	<u>10/13/2025</u>
MW-1 (b)	Appendix I	R - VOC	Appendix I
MW-2A (b)	Appendix I		Appendix I
MW-3	Appendix I		Appendix I
MW-4	Appendix I ⁽³⁾		Appendix I ⁽³⁾
MW-105B	Appendix I ⁽³⁾		Appendix II
MW-108A	Appendix I ⁽³⁾		Appendix I ⁽³⁾
MW-110A	Appendix II		Appendix I ⁽³⁾
Duplicate	At MW-2A		At MW-1

(b) background well

(R-x) verification re-sample

(1) = bis(2ethylhexyl) phthalate

(2) = methyl parathion

(3) = Appendix I plus no detected Appendix II compounds performed in accordance with 113.10(6)B.2

Table 3 – Monitoring Well Maintenance Performance Reevaluation Schedule

Table 3
Monitoring Well Maintenance and Performance Revaluation Schedule
Annual Water Quality Report
Bremer County Sanitary Landfill
Permit No. 09-SDP-01-75C

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 (biennial)				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
Waste separation from ground water 113.6(2)"I"	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 (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)"I"	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)	R	R	P	P	P	P	P	P	P	P
567 IAC 113.10(2)"f"(2) changes in the hydrologic setting and flow paths (biennial)	R		P		P		P		P	
567 IAC 113.10(2)"f"(3) well depths (annual)	X	R	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)"I"	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a

X = Completed

P = Planned

R= Completed at Annual frequency in accordance with IDNR Correspondance dated 4-2-24 (Doc #109724).

Table 4 – Monitoring Well Maintenance Performance Reevaluation Summary

Table 4
Monitoring Well Maintenance and Performance Summary
Annual Water Quality Report
Bremer County Sanitary Landfill
Permit No. 09-SDP-01-75C

Well	Top of casing	Top of Screen	Total Depth		Date of Measurement*	Maximum Depth Discrepancy (ft)	Baseline Recharge (gpm)/date	Most Recent Recharge Rate	
					10/13/2025			4/9/2024	% Change
MW-1	1013.3	1002.2	20.1	Groundwater Level (ft)	6.02	0.2	0.000018 6/5/1991	Full recovery in 24 hour	None percieved
				Groundwater Elevation (Ft MSL)	1007.28				
				Measured Well Depth (ft)	19.9				
				Submerged (+) or Exposed screen (-)	5.08				
MW-2A	1012.74	1004.19	18.55	Groundwater Level (ft)	8.05	0	0.000066 6/5/1991	Full recovery in 24 hour	None percieved
				Groundwater Elevation (Ft MSL)	1004.69				
				Measured Well Depth (ft)	18.55				
				Submerged (+) or Exposed screen (-)	0.5				
MW-3	991.35	980.7	18.65	Groundwater Level (ft)	8.2	1.1	0.0098 6/5/1991	Full recovery in 2 hour	None percieved
				Groundwater Elevation (Ft MSL)	983.15				
				Measured Well Depth (ft)	17.55				
				Submerged (+) or Exposed screen (-)	2.45				
MW-4	990.8	982.05	18.75	Groundwater Level (ft)	7.29	0.35	0.0024 6/5/1991	Full recovery in 2 hour	None percieved
				Groundwater Elevation (Ft MSL)	983.51				
				Measured Well Depth (ft)	18.4				
				Submerged (+) or Exposed screen (-)	1.46				
MW-105B	993.06	981.16	21.9	Groundwater Level (ft)	11.05	0.35	0.0073 6/5/1991	Full recovery in 2 hour	None percieved
				Groundwater Elevation (Ft MSL)	982.01				
				Measured Well Depth (ft)	21.55				
				Submerged (+) or Exposed screen (-)	0.85				
MW-108A	994.7	983.75	20.55	Groundwater Level (ft)	11.87	-0.1	0.00036 6/5/1991	Full recovery in 2 hours	None percieved
				Groundwater Elevation (Ft MSL)	982.83				
				Measured Well Depth (ft)	20.65				
				Submerged (+) or Exposed screen (-)	-0.92				
MW-110A	995.9	985.9	21	Groundwater Level (ft)	12.53	0.35	0.00069 6/5/1991	Full recovery in 1 hour	None percieved
				Groundwater Elevation (Ft MSL)	983.37				
				Measured Well Depth (ft)	20.65				
				Submerged (+) or Exposed screen (-)	-2.53				

* Annual Frequency required per 4-2-24 Doc #109724.

Groundwater Underdrain Piezometer

Well	Does Not Exist	Date of Measurements
		N/A

Table 4A – Historic Water Elevation Data

Water Elevation Data
Bremer County Sanitary Landfill
09-SDP-1-75P

Well/TOC	MW-11013.3		MW-2A1012.74		MW-3991.35		MW-4990.8		MW-105B993.06		MW-108A994.7		MW-110A995.9	
	Water Depth	Water Elevation	Water Depth	Water Elevation	Water Depth	Water Elevation	Water Depth	Water Elevation	Water Depth	Water Elevation	Water Depth	Water Elevation	Water Depth	Water Elevation
04/15/13	2.95	1010.35	NR	NR	5.64	985.71	3.57	987.23	9.26	983.80	7.02	987.68	7.53	988.37
05/05/13	4.10	1009.20	NR	NR	5.52	985.83	3.27	987.53	9.68	983.38	6.68	988.02	7.53	988.37
10/07/13	7.24	1006.06	Dry	Dry	8.98	982.37	8.24	982.56	11.61	981.45	12.64	982.06	13.34	982.56
12/19/13	6.54	1006.76			8.71	982.64	8.03	982.77	11.49	981.57	12.41	982.29	13.12	982.78
04/17/14	3.05	1010.25	9.90	1002.84	5.70	985.65	4.00	986.80	9.98	983.08	7.50	987.20	7.95	987.95
10/15/14	6.70	1006.60	9.70	1003.04	8.20	983.15	7.50	983.30	12.00	981.06	12.33	982.37	13.10	982.80
01/11/15	5.55	1007.75	8.55	1004.19	8.65	982.70	7.90	982.90	NR	NR	NR	NR	NR	NR
04/13/15	3.90	1009.40	5.30	1007.44	7.20	984.15	6.30	984.50	10.36	982.70	10.53	984.17	11.04	984.86
07/21/15	5.65	1007.65	6.50	1006.24	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
09/22/15	6.08	1007.22	8.57	1004.17	8.50	982.85	7.71	983.09	11.30	981.76	11.96	982.74	12.73	983.17
12/30/15	NR	NR	NR	NR	NR	NR	4.06	986.74	9.91	983.15	NR	NR	NR	NR
04/11/16	4.73	1008.57	4.74	1008.00	6.46	984.89	4.63	986.17	10.41	982.65	8.15	986.55	9.30	986.60
10/12/16	5.34	1007.96	5.80	1006.94	6.47	984.88	4.80	986.00	10.62	982.44	8.38	986.32	9.39	986.51
04/13/17	4.70	1008.60	4.65	1008.09	6.40	984.95	4.60	986.20	10.57	982.49	7.88	986.82	8.96	986.94
07/10/17	5.25	1008.05	7.86	1004.88	7.61	983.74	6.26	984.54	11.11	981.95	10.98	983.72	11.53	984.37
10/25/17	3.87	1009.43	8.63	1004.11	7.10	984.25	5.67	985.13	10.54	982.52	10.05	984.65	10.48	985.42
04/12/18	3.85	1009.45	4.05	1008.69	6.86	984.49	5.18	985.62	10.29	982.77	9.27	985.43	9.91	985.99
10/16/18	4.45	1008.85	4.08	1008.66	5.21	986.14	3.34	987.46	9.65	983.41	6.22	988.48	7.51	988.39
04/18/19	4.63	1008.67	4.91	1007.83	6.04	985.31	4.50	986.30	9.85	983.21	7.21	987.49	8.62	987.28
10/15/19	4.35	1008.95	5.79	1006.95	6.21	985.14	4.64	986.16	9.97	983.09	8.46	986.24	9.51	986.39
04/06/20	4.68	1008.62	4.92	1007.82	6.63	984.72	4.99	985.81	10.23	982.83	8.85	985.85	9.69	986.21
10/15/20	5.44	1007.86	8.30	1004.44	8.16	983.19	7.36	983.44	11.14	981.92	11.26	983.44	12.32	983.58
04/12/21	4.66	1008.64	6.44	1006.30	6.80	984.55	5.32	985.48	10.31	982.75	9.38	985.32	10.28	985.62
10/06/21	5.97	1007.33	8.86	1003.88	8.61	982.74	7.92	982.88	11.17	981.89	12.17	982.53	12.97	982.93
04/14/22	4.47	1008.83	4.69	1008.05	6.12	985.23	4.60	986.20	9.76	983.30	8.40	986.30	9.55	986.35
10/25/22	6.03	1007.27	8.66	1004.08	8.20	983.15	7.32	983.48	10.90	982.16	11.79	982.91	12.45	983.45
04/19/23	4.96	1008.34	5.97	1006.77	6.85	984.50	4.91	985.89	10.88	982.18	8.91	985.79	9.96	985.94
10/23/23	6.86	1006.44	9.84	1002.90	9.27	982.08	8.54	982.26	11.73	981.33	12.94	981.76	13.68	982.22
04/09/24	4.06	1009.24	9.03	1003.71	7.26	984.09	5.81	984.99	10.31	982.75	10.57	984.13	11.16	984.74
10/13/25	6.02	1007.28	8.05	1004.69	8.20	983.15	7.29	983.51	11.05	982.01	11.87	982.83	12.53	983.37
minimum	2.95	1006.06	4.05	1002.84	5.21	982.08	3.27	982.26	9.26	981.06	6.22	981.76	7.51	982.22
maximum	7.24	1010.35	9.90	1008.69	9.27	986.14	8.54	987.53	12.00	983.80	12.94	988.48	13.68	988.39
Top of Screen (Elev.)		1002.20		1004.19		980.70		982.05		981.16		983.75		985.90

Table 5 – Background and GWPS Summary

Table 5
Background and GWPS Summary
Annual Water Quality Report
Bremer County Sanitary Landfill
Permit No. 09-SDP-01-75C

Interwell Background/(MW-1 and MW-2A)

Inorganics - Appendix I										
Constituent	Units	Model Type	Samples - N	Detections	Mean	SD	Prediction Limit	Confidence	GWPS	Source
Antimony (Sb)	µg/l	nonparametric	46	1			2.0000	0.99	6	SS
Arsenic (As)	µg/l	nonparametric	46	0			4.0000	0.99	10	SS
Barium (Ba)	µg/l	normal	46	46	195.1696	144.2296	546.8183		2000	SS
Beryllium (Be)	µg/l	nonparametric	44	0			4.0000	0.99	4	SS
Cadmium (Cd)	µg/l	nonparametric	43	0			0.8000	0.99	5	SS
Chromium (Cr)	µg/l	nonparametric	44	0			8.0000	0.99	100	SS
Cobalt (Co)	µg/l	nonparametric	46	1			0.9000	0.99	2.1	SS
Copper (Cu)	µg/l	nonparametric	44	1			8.4000	0.99	1300	SS
Lead (Pb)	µg/l	nonparametric	44	0			4.0000	0.99	15	SS
Nickel (Ni)	µg/l	nonparametric	46	4			7.1000	0.99	100	SS
Selenium (Se)	µg/l	nonparametric	46	0			4.0000	0.99	50	SS
Silver (Ag)	µg/l	nonparametric	46	0			4.0000	0.99	100	SS
Thallium (Tl)	µg/l	nonparametric	44	0			2.0000	0.99	2	SS
Vanadium (V)	µg/l	nonparametric	44	0			20.0000	0.99	35	SS
Zinc (Zn)	µg/l	nonparametric	46	3			21.0000	0.99	2000	SS
VOC - Appendix I										
Constituent	Units	Model Type	Samples - N	Detections	Mean	SD	Prediction Limit	Confidence	GWPS	Source
All	µg/l	DQR	46	0	<1	<1	<1	<1	various	SS

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

Table 6 – Summary of Detections

Table 6
Summary of Well/Detected Constituent Pairs that Exceed the Prediction Limit
Annual Water Quality Report
Bremer County Sanitary Landfill
Permit No. 09-SDP-01-75C

Well	Date	Compound	Result (ug/L)	Prediction Limit (ug/L)	GWPS (ug/L)	Monitoring Program
MW-105B	10/13/2025	bis(2-ethylhexyl)phthalate	6	6	6	Assessment
MW-108A	10/13/2025	Arsenic	14.4	4.0	10.0	Corrective Action
MW-108A	10/13/2025	Cadmium	3.4	0.8	5.0	Corrective Action
MW-108A	10/13/2025	Cobalt	134.0	0.9	2.1	Corrective Action
MW-108A	10/13/2025	Nickel	28.5	7.1	100.0	Corrective Action
MW-110A	10/13/2025	Arsenic	172.0	4.0	10.0	Corrective Action
MW-110A	10/13/2025	Barium	817.0	546.8	2000.0	Corrective Action
MW-110A	10/13/2025	Cobalt	30.3	0.9	2.1	Corrective Action
MW-110A	10/13/2025	1,4-dichlorobenzene	4.1	1.0	75.0	Corrective Action
MW-110A	10/13/2025	Benzene	1.6	1.0	5.0	Corrective Action
MW-110A	10/13/2025	Chlorobenzene	4.0	1.0	100.0	Corrective Action
MW-110A	10/13/2025	Chloroethane	3.8	1.0	2800.0	Corrective Action

Table 7 – Summary of Ongoing and Newly Identified SSI

Table 7
Summary of Ongoing & Newly Identified SSI
Annual Water Quality Report
Bremer County Sanitary Landfill
Permit No. 09-SDP-01-75C

KEY:	SSI	SSL LCL>GWPS
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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-3	4/11/2016	Arsenic	<4.0	4.0	2.000	10	NA	NA	9/22/2015
MW-3	10/12/2016	Arsenic	<4.0	4.0	2.000	10	NA	NA	9/22/2015
MW-3	4/13/2017	Arsenic	<4.0	4.0	2.000	10	NA	NA	9/22/2015
MW-3	10/25/2017	Arsenic	<4.0	4.0	2.000	10	NA	NA	9/22/2015
MW-3	4/12/2018	Arsenic	<4.0	4.0	2.000	10	NA	NA	9/22/2015
MW-3	10/16/2018	Arsenic	<4.0	4.0	2.000	10	NA	NA	9/22/2015
MW-3	4/18/2019	Arsenic	<4.0	4.0	2.000	10	NA	NA	9/22/2015
MW-3	10/15/2019	Arsenic	<4.0	4.0	2.000	10	NA	NA	9/22/2015
MW-3	4/6/2020	Arsenic	<4.0	4.0	2.000	10	NA	NA	9/22/2015
MW-3	10/15/2020	Arsenic	<4.0	4.0	2.000	10	NA	NA	9/22/2015
MW-3	4/12/2021	Arsenic	<4.0	4.0	2.000	10	NA	NA	9/22/2015
MW-3	10/6/2021	Arsenic	<4.0	4.0	2.000	10	NA	NA	9/22/2015
MW-3	4/14/2022	Arsenic	<4.0	4.0	2.000	10	NA	NA	9/22/2015
MW-3	10/25/2022	Arsenic	<4.0	4.0	2.000	10	NA	NA	9/22/2015
MW-3	4/19/2023	Arsenic	<4.0	4.0	2.000	10	NA	NA	9/22/2015
MW-3	10/23/2023	Arsenic	<4.0	4.0	2.000	10	NA	NA	9/22/2015
MW-3	4/9/2024	Arsenic	<4.0	4.0	2.000	10	NA	NA	9/22/2015
MW-3	10/13/2025	Arsenic	<2.0	4.0	2.000	10	NA	NA	9/22/2015
MW-3	4/11/2016	Cobalt	<0.8	0.9	0.400	2.8	NA	NA	9/22/2015
MW-3	10/12/2016	Cobalt	<0.8	0.9	0.400	2.8	NA	NA	9/22/2015
MW-3	4/13/2017	Cobalt	<0.8	0.9	0.400	2.8	NA	NA	9/22/2015
MW-3	10/25/2017	Cobalt	<0.8	0.9	0.400	2.8	NA	NA	9/22/2015
MW-3	4/12/2018	Cobalt	<0.8	0.9	0.400	2.1	NA	NA	9/22/2015
MW-3	10/16/2018	Cobalt	<0.8	0.9	0.400	2.1	NA	NA	9/22/2015
MW-3	4/18/2019	Cobalt	<0.8	0.9	0.400	2.1	NA	NA	9/22/2015
MW-3	10/15/2019	Cobalt	<0.8	0.9	0.400	2.1	NA	NA	9/22/2015
MW-3	4/6/2020	Cobalt	<0.4	0.9	0.400	2.1	NA	NA	9/22/2015
MW-3	10/15/2020	Cobalt	<0.4	0.9	0.400	2.1	NA	NA	9/22/2015
MW-3	4/12/2021	Cobalt	<0.4	0.9	0.400	2.1	NA	NA	9/22/2015
MW-3	10/6/2021	Cobalt	<0.4	0.9	0.400	2.1	NA	NA	9/22/2015
MW-3	4/14/2022	Cobalt	0.4	0.9	0.400	2.1	NA	NA	9/22/2015
MW-3	10/25/2022	Cobalt	1.6*	0.9	0.000	2.1	NA	NA	9/22/2015
MW-3	1/9/2023	Cobalt	<2.0	0.9	0.000	2.1	NA	NA	9/22/2015
MW-3	4/19/2023	Cobalt	<0.4	0.9	0.000	2.1	NA	NA	9/22/2015
MW-3	10/23/2023	Cobalt	<0.4	0.9	0.000	2.1	NA	NA	9/22/2015
MW-3	4/9/2024	Cobalt	<0.4	0.9	0.200	2.1	NA	NA	9/22/2015
MW-3	10/13/2025	Cobalt	<0.5	0.9	0.200	2.1	NA	NA	9/22/2015

* Not verified

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

KEY:

SSI

SSL LCL>GWPS

Summary of Ongoing & Newly Identified SSI

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

Annual Water Quality Report

Bremer County Sanitary Landfill

Permit No. 09-SDP-01-75C

Monitoring Well	Compound	Sample Date	Each Result (ug/L)	Prediction Limit (ug/L)	95% LCL (ug/L)	GWPS Limit (ug/L)	SSI		5th Background Sample
							Initial Exceedance	Resamples Due	
MW-4	4/11/2016	Arsenic	<4.0	4.000	2.000	10	NA	NA	9/22/2015
MW-4	10/12/2016	Arsenic	<4.0	4.000	2.000	10	NA	NA	9/22/2015
MW-4	4/13/2017	Arsenic	<4.0	4.000	2.000	10	NA	NA	9/22/2015
MW-4	10/25/2017	Arsenic	<4.0	4.000	2.000	10	NA	NA	9/22/2015
MW-4	4/12/2018	Arsenic	<4.0	4.000	2.000	10	NA	NA	9/22/2015
MW-4	10/16/2018	Arsenic	<4.0	4.000	2.000	10	NA	NA	9/22/2015
MW-4	4/18/2019	Arsenic	<4.0	4.000	2.000	10	NA	NA	9/22/2015
MW-4	10/15/2019	Arsenic	<4.0	4.000	2.000	10	NA	NA	9/22/2015
MW-4	4/6/2020	Arsenic	<4.0	4.000	2.000	10	NA	NA	9/22/2015
MW-4	10/15/2020	Arsenic	<4.0	4.000	2.000	10	NA	NA	9/22/2015
MW-4	4/12/2021	Arsenic	<4.0	4.000	2.000	10	NA	NA	9/22/2015
MW-4	10/6/2021	Arsenic	<4.0	4.000	2.000	10	NA	NA	9/22/2015
MW-4	4/14/2022	Arsenic	<4.0	4.000	2.000	10	NA	NA	9/22/2015
MW-4	10/25/2022	Arsenic	<4.0	4.000	2.000	10	NA	NA	9/22/2015
MW-4	4/19/2023	Arsenic	<4.0	4.000	2.000	10	NA	NA	9/22/2015
MW-4	10/23/2023	Arsenic	<4.0	4.000	2.000	10	NA	NA	9/22/2015
MW-4	4/9/2024	Arsenic	<4.0	4.000	2.000	10	NA	NA	9/22/2015
MW-4	10/13/2025	Arsenic	<2.0	4.000	2.000	10	NA	NA	9/22/2015

Table 7
Summary of Ongoing & Newly Identified SSI
Annual Water Quality Report
Bremer County Sanitary Landfill
Permit No. 09-SDP-01-75C

KEY:	SSI	SSL LCL>GWPS
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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-4	4/11/2016	Cobalt	1.6	0.900	0	2.8	NA	NA	9/22/2015
MW-4	10/12/2016	Cobalt	<0.8	0.900	0	2.8	NA	NA	9/22/2015
MW-4	4/13/2017	Cobalt	<0.8	0.900	1.665	2.8	NA	NA	9/22/2015
MW-4	10/25/2017	Cobalt	<0.8	0.900	1.665	2.8	NA	NA	9/22/2015
MW-4	4/12/2018	Cobalt	<0.8	0.900	0.4	2.1	NA	NA	9/22/2015
MW-4	10/16/2018	Cobalt	<0.8	0.900	0.4	2.1	NA	NA	9/22/2015
MW-4	4/18/2019	Cobalt	<0.8	0.900	0.4	2.1	NA	NA	9/22/2015
MW-4	10/15/2019	Cobalt	<0.8	0.900	0.4	2.1	NA	NA	9/22/2015
MW-4	4/6/2020	Cobalt	<0.4	0.900	0.4	2.1	NA	NA	9/22/2015
MW-4	10/15/2020	Cobalt	<0.4	0.900	0.4	2.1	NA	NA	9/22/2015
MW-4	4/12/2021	Cobalt	<0.4	0.900	0.4	2.1	NA	NA	9/22/2015
MW-4	7/1/2021	Cobalt	1.0	0.900	0.4	2.1	NA	NA	9/22/2015
MW-4	10/6/2021	Cobalt	<0.4	0.900	0.4	2.1	NA	NA	9/22/2015
MW-4	4/14/2022	Cobalt	2.1	0.900	0.032	2.1	NA	NA	9/22/2015
MW-4	7/13/2022	Cobalt	1.8	0.900	0.032	2.1	NA	NA	9/22/2015
MW-4	10/25/2022	Cobalt	<0.4	0.900	0.113	2.1	NA	NA	9/22/2015
MW-4	4/19/2023	Cobalt	<0.4	0.900	0.113	2.1	NA	NA	9/22/2015
MW-4	10/23/2023	Cobalt	<0.4	0.900	0.000	2.1	NA	NA	9/22/2015
MW-4	4/9/2024	Cobalt	<0.4	0.900	0.200	2.1	NA	NA	9/22/2015
MW-4	10/13/2025	Cobalt	0.8	0.900	0.265	2.1	NA	NA	9/22/2015

Table 7

KEY:

SSI

SSL LCL>GWPS

Summary of Ongoing & Newly Identified SSI
Annual Water Quality Report
Bremer County Sanitary Landfill
Permit No. 09-SDP-01-75C

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-4	10/25/2022	Bis(2-ethylhexyl)phthalate	10.0*	6.000	---	6	NA	NA	9/22/2015
MW-4	1/9/2023	Bis(2-ethylhexyl)phthalate	<6	6.000	---	6	NA	NA	9/22/2015
MW-4	4/19/2023	Bis(2-ethylhexyl)phthalate	NT	6.000	---	6	NA	NA	9/22/2015
MW-4	10/23/2023	Bis(2-ethylhexyl)phthalate	NT	6.000	---	6	NA	NA	9/22/2015
MW-4	4/9/2024	Bis(2-ethylhexyl)phthalate	NT	6.000	---	6	NA	NA	9/22/2015
MW-4	10/13/2025	Bis(2-ethylhexyl)phthalate	NT	6.000	---	6	NA	NA	9/22/2015

* Not verified

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

KEY:

SSI

SSL LCL>GWPS

Summary of Ongoing & Newly Identified SSI

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

Annual Water Quality Report

Bremer County Sanitary Landfill

Permit No. 09-SDP-01-75C

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-105B	4/11/2016	Cobalt	<0.8	0.900	0.000	2.8	9/22/2015	No-SSI	N/A
MW-105B	10/12/2016	Cobalt	<0.8	0.900	0.000	2.8	9/22/2015	No-SSI	N/A
MW-105B	4/13/2017	Cobalt	<0.8	0.900	0.400	2.8	9/22/2015	No-SSI	N/A
MW-105B	10/25/2017	Cobalt	1.2	0.900	0.129	2.8	9/22/2015	SSI	N/A
MW-105B	1/12/2018	Cobalt	36.6	0.900	0.000	2.8	9/22/2015	SSI	N/A
MW-105B	4/12/2018	Cobalt	1.2	0.900	0.000	2.1	9/22/2015	SSI	N/A
MW-105B	10/16/2018	Cobalt	<0.8	0.900	0.000	2.1	9/22/2015	No-SSI	N/A
MW-105B	4/18/2019	Cobalt	<0.8	0.900	0.000	2.1	9/22/2015	No-SSI	N/A
MW-105B	10/15/2019	Cobalt	<0.8	0.900	0.129	2.1	9/22/2015	No-SSI	N/A
MW-105B	4/6/2020	Cobalt	<0.4	0.900	0.400	2.1	9/22/2015	No-SSI	N/A
MW-105B	10/15/2020	Cobalt	1.6	0.900	0.000	2.1	9/22/2015	SSI	N/A
MW-105B	4/12/2021	Cobalt	<0.4	0.900	0.000	2.1	9/22/2015	No-SSI	N/A
MW-105B	10/6/2021	Cobalt	<0.4	0.900	0.000	2.1	9/22/2015	No-SSI	N/A
MW-105B	4/14/2022	Cobalt	1.5	0.900	0.193	2.1	9/22/2015	SSI	N/A
MW-105B	10/25/2022	Cobalt	0.7	0.900	0.139	2.1	9/22/2015	No-SSI	N/A
MW-105B	4/19/2023	Cobalt	<0.4	0.900	0.139	2.1	9/22/2015	No-SSI	N/A
MW-105B	10/23/2023	Cobalt	<0.4	0.900	0.139	2.1	9/22/2015	No-SSI	N/A
MW-105B	4/9/2024	Cobalt	<0.4	0.900	0.299	2.1	9/22/2015	No-SSI	N/A
MW-105B	10/13/2025	Cobalt	<0.5	0.900	0.400	2.1	9/22/2015	No-SSI	N/A
MW-105B	10/15/2014	bis(2-ethylhexyl)phthalate	12.0	6.0	---	6.0	9/22/2015	SSI	N/A
MW-105B	4/13/2015	bis(2-ethylhexyl)phthalate	<10	6.000	---	6	9/22/2015	No-SSI	N/A
MW-105B	9/22/2015	bis(2-ethylhexyl)phthalate	8.0	6.000	---	6	9/22/2015	SSI	N/A
MW-105B	4/11/2016	bis(2-ethylhexyl)phthalate	<4	6.000	---	6	9/22/2015	No-SSI	N/A
MW-105B	10/12/2016	bis(2-ethylhexyl)phthalate	<4	6.000	---	6	9/22/2015	No-SSI	N/A
MW-105B	4/13/2017	bis(2-ethylhexyl)phthalate	<6	6.000	3.000	6	9/22/2015	No-SSI	N/A
MW-105B	10/15/2020	bis(2-ethylhexyl)phthalate	<6	6.000	3.000	6	9/22/2015	No-SSI	N/A
MW-105B	10/13/2025	bis(2-ethylhexyl)phthalate	6.0	6.000	3.324	6	9/22/2015	SSI	N/A

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

Table 7
Summary of Ongoing & Newly Identified SSI
Annual Water Quality Report
Bremer County Sanitary Landfill
Permit No. 09-SDP-01-75C

KEY:	SSI	SSL LCL>GWPS
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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	Resamples Due	5th Background Sample
							Initial Exceedance		
MW-108A	4/11/2016	Arsenic	18.6	4.000	16.459	10	4/11/2016	NA	9/22/2015
MW-108A	10/12/2016	Arsenic	27.9	4.000	15.098	10	4/11/2016	NA	9/22/2015
MW-108A	4/13/2017	Arsenic	17.1	4.000	15.269	10	4/11/2016	NA	9/22/2015
MW-108A	10/25/2017	Arsenic	7.9	4.000	8.244	10	4/11/2016	NA	9/22/2015
MW-108A	4/12/2018	Arsenic	10.7	4.000	5.456	10	4/11/2016	NA	9/22/2015
MW-108A	10/16/2018	Arsenic	17.5	4.000	7.700	10	4/11/2016	NA	9/22/2015
MW-108A	4/18/2019	Arsenic	16.5	4.000	7.729	10	4/11/2016	NA	9/22/2015
MW-108A	10/15/2019	Arsenic	11.6	4.000	10.050	10	4/11/2016	NA	9/22/2015
MW-108A	4/6/2020	Arsenic	6.4	4.000	7.001	10	4/11/2016	NA	9/22/2015
MW-108A	10/15/2020	Arsenic	21.5	4.000	0.505	10	4/11/2016	NA	9/22/2015
MW-108A	4/12/2021	Arsenic	<4.0	4.000	0.000	10	4/11/2016	NA	9/22/2015
MW-108A	10/6/2021	Arsenic	4.1	4.000	6.376	10	4/11/2016	NA	9/22/2015
MW-108A	4/14/2022	Arsenic	9.0	4.000	0.000	10	4/11/2016	NA	9/22/2015
MW-108A	10/25/2022	Arsenic	12.4	4.000	1.337	10	4/11/2016	NA	9/22/2015
MW-108A	4/19/2023	Arsenic	<4.0	4.000	1.337	10	4/11/2016	NA	9/22/2015
MW-108A	10/23/2023	Arsenic	14.1	4.000	3.077	10	4/11/2016	NA	9/22/2015
MW-108A	4/9/2024	Arsenic	9.4	4.000	3.183	10	4/11/2016	NA	9/22/2015
MW-108A	10/13/2025	Arsenic	14.4	4.000	3.166	10	4/11/2016	NA	9/22/2015

Table 7

KEY:

SSI

SSL LCL>GWPS

Summary of Ongoing & Newly Identified SSI
Annual Water Quality Report
Bremer County Sanitary Landfill
Permit No. 09-SDP-01-75C

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		5th Background Sample
							Initial Exceedance	Resamples Due	
MW-108A	4/11/2016	Cadmium	<0.8	0.800	0.400	5	10/6/2021	NA	9/22/2015
MW-108A	10/12/2016	Cadmium	<0.8	0.800	0.400	5	10/6/2021	NA	9/22/2015
MW-108A	4/13/2017	Cadmium	<0.8	0.800	0.400	5	10/6/2021	NA	9/22/2015
MW-108A	10/25/2017	Cadmium	<0.8	0.800	0.400	5	10/6/2021	NA	9/22/2015
MW-108A	4/12/2018	Cadmium	<0.8	0.800	0.400	5	10/6/2021	NA	9/22/2015
MW-108A	10/16/2018	Cadmium	<0.8	0.800	0.400	5	10/6/2021	NA	9/22/2015
MW-108A	4/18/2019	Cadmium	<0.8	0.800	0.400	5	10/6/2021	NA	9/22/2015
MW-108A	10/15/2019	Cadmium	<0.8	0.800	0.400	5	10/6/2021	NA	9/22/2015
MW-108A	4/6/2020	Cadmium	<0.8	0.800	0.400	5	10/6/2021	NA	9/22/2015
MW-108A	10/15/2020	Cadmium	<0.8	0.800	0.400	5	10/6/2021	NA	9/22/2015
MW-108A	4/12/2021	Cadmium	<0.8	0.800	0.400	5	10/6/2021	NA	9/22/2015
MW-108A	10/6/2021	Cadmium	2.0	0.800	0.000	5	10/6/2021	NA	9/22/2015
MW-108A	4/14/2022	Cadmium	3.4	0.800	0.000	5	10/6/2021	NA	9/22/2015
MW-108A	10/25/2022	Cadmium	<0.8	0.800	0.000	5	10/6/2021	NA	9/22/2015
MW-108A	4/19/2023	Cadmium	<0.8	0.800	0.000	5	10/6/2021	NA	9/22/2015
MW-108A	10/23/2023	Cadmium	1.5	0.800	0.000	5	10/6/2021	NA	9/22/2015
MW-108A	4/9/2024	Cadmium	<0.8	0.800	0.028	5	10/6/2021	NA	9/22/2015
MW-108A	10/13/2025	Cadmium	3.4	0.800	0.000	5	10/6/2021	NA	9/22/2015

Table 7

KEY:

SSI

SSL LCL>GWPS

Summary of Ongoing & Newly Identified SSI
Annual Water Quality Report
Bremer County Sanitary Landfill
Permit No. 09-SDP-01-75C

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		5th Background Sample
							Initial Exceedance	Resamples Due	
MW-108A	4/11/2016	Cobalt	5.2	0.900	0.468	2.8	4/11/2016	NA	9/22/2015
MW-108A	10/12/2016	Cobalt	2.9	0.900	0.000	2.8	4/11/2016	NA	9/22/2015
MW-108A	4/13/2017	Cobalt	<0.8	0.900	0.726	2.8	4/11/2016	NA	9/22/2015
MW-108A	10/25/2017	Cobalt	149	0.900	0.000	2.8	4/11/2016	NA	9/22/2015
MW-108A	4/12/2018	Cobalt	1.1	0.900	0.000	2.1	4/11/2016	NA	9/22/2015
MW-108A	10/16/2018	Cobalt	<0.8	0.900	0.000	2.1	4/11/2016	NA	9/22/2015
MW-108A	4/18/2019	Cobalt	<0.8	0.900	0.163	2.1	4/11/2016	NA	9/22/2015
MW-108A	10/15/2019	Cobalt	<0.8	0.900	0.400	2.1	4/11/2016	NA	9/22/2015
MW-108A	4/6/2020	Cobalt	<0.8	0.900	0.163	2.1	4/11/2016	NA	9/22/2015
MW-108A	10/15/2020	Cobalt	<0.4	0.900	0.400	2.1	4/11/2016	NA	9/22/2015
MW-108A	4/12/2021	Cobalt	9.1	0.900	0.000	2.1	4/11/2016	NA	9/22/2015
MW-108A	10/6/2021	Cobalt	173.0	0.900	0.000	2.1	4/11/2016	NA	9/22/2015
MW-108A	4/14/2022	Cobalt	56.6	0.900	0.000	2.1	4/11/2016	NA	9/22/2015
MW-108A	10/25/2022	Cobalt	1.9	0.900	0.000	2.1	4/11/2016	NA	9/22/2015
MW-108A	4/19/2023	Cobalt	8.4	0.900	0.000	2.1	4/11/2016	NA	9/22/2015
MW-108A	10/23/2023	Cobalt	586.0	0.900	0.000	2.1	4/11/2016	NA	9/22/2015
MW-108A	4/9/2024	Cobalt	27.6	0.900	0.000	2.1	4/11/2016	NA	9/22/2015
MW-108A	10/13/2025	Cobalt	134.0	0.900	0.000	2.1	4/11/2016	NA	9/22/2015

Table 7

KEY:

SSI

SSL LCL>GWPS

Summary of Ongoing & Newly Identified SSI

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Annual Water Quality Report

Bremer County Sanitary Landfill

Permit No. 09-SDP-01-75C

Monitoring Well	Compound	Sample Date	Each Result (ug/L)	Prediction Limit (ug/L)	95% LCL (ug/L)	GWPS Limit (ug/L)	SSI		5th Background Sample
							Initial Exceedance	Resamples Due	
MW-108A	4/11/2016	Nickel	<4.0	4.700	2.597	100	10/12/2016	NA	9/22/2015
MW-108A	10/12/2016	Nickel	5.2	4.700	2.144	100	10/12/2016	NA	9/22/2015
MW-108A	4/13/2017	Nickel	<4.0	4.700	0.717	100	10/12/2016	NA	9/22/2015
MW-108A	10/25/2017	Nickel	39.7	7.100	0.000	100	10/12/2016	NA	9/22/2015
MW-108A	4/12/2018	Nickel	<4.0	7.100	0.000	100	10/12/2016	NA	9/22/2015
MW-108A	10/16/2018	Nickel	<4.0	7.100	0.000	100	10/12/2016	NA	9/22/2015
MW-108A	4/18/2019	Nickel	<4.0	7.100	2.000	100	10/12/2016	NA	9/22/2015
MW-108A	10/15/2019	Nickel	<4.0	7.100	2.000	100	10/12/2016	NA	9/22/2015
MW-108A	4/6/2020	Nickel	<4.0	7.100	2.000	100	10/12/2016	NA	9/22/2015
MW-108A	10/15/2020	Nickel	<4.0	7.100	2.000	100	10/12/2016	NA	9/22/2015
MW-108A	4/12/2021	Nickel	7.6	7.100	0.106	100	10/12/2016	NA	9/22/2015
MW-108A	10/6/2021	Nickel	46.9	7.100	0.000	100	10/12/2016	NA	9/22/2015
MW-108A	4/14/2022	Nickel	77.7	7.100	0.000	100	10/12/2016	NA	9/22/2015
MW-108A	10/25/2022	Nickel	<4.0	7.100	0.000	100	10/12/2016	NA	9/22/2015
MW-108A	4/19/2023	Nickel	34.6	7.100	3.466	100	10/12/2016	NA	9/22/2015
MW-108A	10/23/2023	Nickel	292.0	7.100	0.000	100	10/12/2016	NA	9/22/2015
MW-108A	4/9/2024	Nickel	55.6	7.100	0.000	100	10/12/2016	NA	9/22/2015
MW-108A	10/13/2025	Nickel	28.5	7.100	0.000	100	10/12/2016	NA	9/22/2015

Table 7

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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-108A	4/11/2016	Zinc	<8	21.000	4.000	2000	10/6/2021	NA	9/22/2015
MW-108A	10/12/2016	Zinc	<8	21.000	4.000	2000	10/6/2021	NA	9/22/2015
MW-108A	4/13/2017	Zinc	<8	21.000	4.000	2000	10/6/2021	NA	9/22/2015
MW-108A	10/25/2017	Zinc	9.0	21.000	2.309	2000	10/6/2021	NA	9/22/2015
MW-108A	4/12/2018	Zinc	<20	21.000	2.309	2000	10/6/2021	NA	9/22/2015
MW-108A	10/16/2018	Zinc	<20	21.000	2.309	2000	10/6/2021	NA	9/22/2015
MW-108A	4/18/2019	Zinc	<8	21.000	2.309	2000	10/6/2021	NA	9/22/2015
MW-108A	10/15/2019	Zinc	<20	21.000	4.000	2000	10/6/2021	NA	9/22/2015
MW-108A	4/6/2020	Zinc	<20	21.000	4.000	2000	10/6/2021	NA	9/22/2015
MW-108A	10/15/2020	Zinc	<20	21.000	4.000	2000	10/6/2021	NA	9/22/2015
MW-108A	4/12/2021	Zinc	<20	21.000	4.000	2000	10/6/2021	NA	9/22/2015
MW-108A	10/6/2021	Zinc	61.4	21.000	0.000	2000	10/6/2021	NA	9/22/2015
MW-108A	4/14/2022	Zinc	35.7	21.000	0.000	2000	10/6/2021	NA	9/22/2015
MW-108A	10/25/2022	Zinc	<20	21.000	0.000	2000	10/6/2021	NA	9/22/2015
MW-108A	4/19/2023	Zinc	<20	21.000	0.000	2000	10/6/2021	NA	9/22/2015
MW-108A	10/23/2023	Zinc	28.1	21.000	0.000	2000	10/6/2021	NA	9/22/2015
MW-108A	4/9/2024	Zinc	21.1	21.000	1.071	2000	10/6/2021	NA	9/22/2015
MW-108A	10/13/2025	Zinc	16.4	21.000	6.232	2000	10/6/2021	NA	9/22/2015

Table 7

KEY:

SSI

SSL LCL>GWPS

Summary of Ongoing & Newly Identified SSI

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

Annual Water Quality Report

Bremer County Sanitary Landfill

Permit No. 09-SDP-01-75C

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-108A	4/11/2016	Benzene	<1.0	1.000	0.309	5	NA	NA	9/22/2015
MW-108A	10/12/2016	Benzene	<1.0	1.000	0.309	5	NA	NA	9/22/2015
MW-108A	4/13/2017	Benzene	<1.0	1.000	0.128	5	NA	NA	9/22/2015
MW-108A	10/25/2017	Benzene	1.0	1.000	0.331	5	NA	NA	9/22/2015
MW-108A	10/25/2017	Benzene	1.2	1.000	0.331	5	NA	NA	9/22/2015
MW-108A	4/12/2018	Benzene	<1.0	1.000	0.381	5	NA	NA	9/22/2015
MW-108A	10/16/2018	Benzene	<1.0	1.000	0.381	5	NA	NA	9/22/2015
MW-108A	4/18/2019	Benzene	<1.0	1.000	0.263	5	NA	NA	9/22/2015
MW-108A	10/15/2019	Benzene	<1.0	1.000	0.500	5	NA	NA	9/22/2015
MW-108A	4/6/2020	Benzene	<1.0	1.000	0.500	5	NA	NA	9/22/2015
MW-108A	10/15/2020	Benzene	<1.0	1.000	0.500	5	NA	NA	9/22/2015
MW-108A	4/12/2021	Benzene	<1.0	1.000	0.500	5	NA	NA	9/22/2015
MW-108A	10/6/2021	Benzene	<1.0	1.000	0.500	5	NA	NA	9/22/2015
MW-108A	4/14/2022	Benzene	<1.0	1.000	0.500	5	NA	NA	9/22/2015
MW-108A	10/25/2022	Benzene	<1.0	1.000	0.500	5	NA	NA	9/22/2015
MW-108A	4/19/2023	Benzene	<1.0	1.000	0.500	5	NA	NA	9/22/2015
MW-108A	10/23/2023	Benzene	<1.0	1.000	0.500	5	NA	NA	9/22/2015
MW-108A	4/9/2024	Benzene	<1.0	1.000	0.500	5	NA	NA	9/22/2015
MW-108A	10/13/2025	Benzene	<1.0	1.000	0.500	5	NA	NA	9/22/2015

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
Bremer County Sanitary Landfill
Permit No. 09-SDP-01-75C

KEY:	SSI	SSL LCL>GWPS
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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-110A	4/11/2016	Arsenic	24.4	4.000	25.105	10	4/11/2016	NA	9/22/2015
MW-110A	10/12/2016	Arsenic	44.8	4.000	23.078	10	4/11/2016	NA	9/22/2015
MW-110A	4/13/2017	Arsenic	33.3	4.000	24.25	10	4/11/2016	NA	9/22/2015
MW-110A	10/25/2017	Arsenic	37.6	4.000	24.997	10	4/11/2016	NA	9/22/2015
MW-110A	4/12/2018	Arsenic	36.3	4.000	32.262	10	4/11/2016	NA	9/22/2015
MW-110A	10/16/2018	Arsenic	50.2	4.000	30.582	10	4/11/2016	NA	9/22/2015
MW-110A	4/18/2019	Arsenic	21.8	4.000	22.807	10	4/11/2016	NA	9/22/2015
MW-110A	10/15/2019	Arsenic	54.2	4.000	23.323	10	4/11/2016	NA	9/22/2015
MW-110A	4/6/2020	Arsenic	44.7	4.000	25.688	10	4/11/2016	NA	9/22/2015
MW-110A	10/15/2020	Arsenic	53.1	4.000	25.754	10	4/11/2016	NA	9/22/2015
MW-110A	4/12/2021	Arsenic	43.8	4.000	42.53	10	4/11/2016	NA	9/22/2015
MW-110A	10/6/2021	Arsenic	42.2	4.000	40.213	10	4/11/2016	NA	9/22/2015
MW-110A	4/14/2022	Arsenic	19.5	4.000	22.868	10	4/11/2016	NA	9/22/2015
MW-110A	10/25/2022	Arsenic	67.1	4.000	20.278	10	4/11/2016	NA	9/22/2015
MW-110A	4/19/2023	Arsenic	18.7	4.000	9.930	10	4/11/2016	NA	9/22/2015
MW-110A	10/23/2023	Arsenic	57.6	4.000	10.988	10	4/11/2016	NA	9/22/2015
MW-110A	4/9/2024	Arsenic	7.0	4.000	3.213	10	4/11/2016	NA	9/22/2015
MW-110A	10/13/2025	Arsenic	172.0	4.000	0.000	10	4/11/2016	NA	9/22/2015

Table 7
Summary of Ongoing & Newly Identified SSI
Annual Water Quality Report
Bremer County Sanitary Landfill
Permit No. 09-SDP-01-75C

KEY:	SSI	SSL LCL>GWPS
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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-110A	4/11/2016	Barium	639	635.423	472.843	2,000.00	4/11/2016	NA	9/22/2015
MW-110A	10/12/2016	Barium	748	627.248	625.088	2,000.00	4/11/2016	NA	9/22/2015
MW-110A	4/13/2017	Barium	890	607.518	648.8	2,000.00	4/11/2016	NA	9/22/2015
MW-110A	10/25/2017	Barium	784	594.315	643.478	2,000.00	4/11/2016	NA	9/22/2015
MW-110A	4/12/2018	Barium	733	584.693	705.455	2,000.00	4/11/2016	NA	9/22/2015
MW-110A	10/16/2018	Barium	650	573.2322	646.166	2,000.00	4/11/2016	NA	9/22/2015
MW-110A	4/18/2019	Barium	551	573.0557	559.609	2,000.00	4/11/2016	NA	9/22/2015
MW-110A	10/15/2019	Barium	803	569.0907	556.460	2,000.00	4/11/2016	NA	9/22/2015
MW-110A	4/6/2020	Barium	816	565.1623	555.181	2,000.00	4/11/2016	NA	9/22/2015
MW-110A	10/15/2020	Barium	701	559.7687	573.674	2,000.00	4/11/2016	NA	9/22/2015
MW-110A	4/12/2021	Barium	713	559.0225	688.123	2,000.00	4/11/2016	NA	9/22/2015
MW-110A	10/6/2021	Barium	714	554.4955	672.881	2,000.00	4/11/2016	NA	9/22/2015
MW-110A	4/14/2022	Barium	520	552.3424	550.428	2,000.00	4/11/2016	NA	9/22/2015
MW-110A	10/25/2022	Barium	675	549.8598	547.117	2,000.00	4/11/2016	NA	9/22/2015
MW-110A	4/19/2023	Barium	537	547.8423	496.928	2,000.00	4/11/2016	NA	9/22/2015
MW-110A	10/23/2023	Barium	842	546.0912	467.726	2,000.00	4/11/2016	NA	9/22/2015
MW-110A	4/9/2024	Barium	199	546.9330	242.145	2,000.00	4/11/2016	NA	9/22/2015
MW-110A	10/13/2025	Barium	817	546.8183	245.591	2,000.00	4/11/2016	NA	9/22/2015

Table 7
Summary of Ongoing & Newly Identified SSI
Annual Water Quality Report
Bremer County Sanitary Landfill
Permit No. 09-SDP-01-75C

KEY:	SSI	SSL LCL>GWPS
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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-110A	4/11/2016	Cobalt	13.3	0.900	1.339	2.8	4/11/2016	NA	9/22/2015
MW-110A	10/12/2016	Cobalt	12.5	0.900	2.863	2.8	4/11/2016	NA	9/22/2015
MW-110A	4/13/2017	Cobalt	10.8	0.900	2.948	2.8	4/11/2016	NA	9/22/2015
MW-110A	10/25/2017	Cobalt	7.7	0.900	8.158	2.8	4/11/2016	NA	9/22/2015
MW-110A	4/12/2018	Cobalt	18.5	0.900	7.033	2.1	4/11/2016	NA	9/22/2015
MW-110A	10/16/2018	Cobalt	19.8	0.900	7.286	2.1	4/11/2016	NA	9/22/2015
MW-110A	4/18/2019	Cobalt	23.7	0.900	9.368	2.1	4/11/2016	NA	9/22/2015
MW-110A	10/15/2019	Cobalt	4.3	0.900	6.604	2.1	4/11/2016	NA	9/22/2015
MW-110A	4/6/2020	Cobalt	39.3	0.900	4.863	2.1	4/11/2016	NA	9/22/2015
MW-110A	10/15/2020	Cobalt	4.8	0.900	0.000	2.1	4/11/2016	NA	9/22/2015
MW-110A	4/12/2021	Cobalt	11.2	0.900	0.000	2.1	4/11/2016	NA	9/22/2015
MW-110A	10/6/2021	Cobalt	12.3	0.900	0.000	2.1	4/11/2016	NA	9/22/2015
MW-110A	4/14/2022	Cobalt	191.0	0.900	0.000	2.1	4/11/2016	NA	9/22/2015
MW-110A	10/25/2022	Cobalt	6.5	0.900	0.000	2.1	4/11/2016	NA	9/22/2015
MW-110A	4/19/2023	Cobalt	91.4	0.900	0.000	2.1	4/11/2016	NA	9/22/2015
MW-110A	10/23/2023	Cobalt	18.0	0.900	0.000	2.1	4/11/2016	NA	9/22/2015
MW-110A	4/9/2024	Cobalt	1460.0	0.900	0.000	2.1	4/11/2016	NA	9/22/2015
MW-110A	10/13/2025	Cobalt	30.3	0.900	0.000	2.1	4/11/2016	NA	9/22/2015

Table 7
Summary of Ongoing & Newly Identified SSI
Annual Water Quality Report
Bremer County Sanitary Landfill
Permit No. 09-SDP-01-75C

KEY:	SSI	SSL LCL>GWPS
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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-110A	4/11/2016	Nickel	<4	7.1	2.000	100.00	4/11/2016	NA	9/22/2015
MW-110A	10/12/2016	Nickel	<4	7.1	2.000	100.00	4/11/2016	NA	9/22/2015
MW-110A	4/13/2017	Nickel	<4	7.1	2.000	100.00	4/11/2016	NA	9/22/2015
MW-110A	10/25/2017	Nickel	<4	7.1	2.000	100.00	4/11/2016	NA	9/22/2015
MW-110A	4/12/2018	Nickel	<4	7.1	2.000	100.00	4/11/2016	NA	9/22/2015
MW-110A	10/16/2018	Nickel	<4	7.1	2.000	100.00	4/11/2016	NA	9/22/2015
MW-110A	4/18/2019	Nickel	<4	7.1	2.000	100.00	4/11/2016	NA	9/22/2015
MW-110A	10/15/2019	Nickel	<4	7.1	2.000	100.00	4/11/2016	NA	9/22/2015
MW-110A	4/6/2020	Nickel	<4	7.1	2.000	100.00	4/11/2016	NA	9/22/2015
MW-110A	10/15/2020	Nickel	<4	7.1	2.000	100.00	4/11/2016	NA	9/22/2015
MW-110A	4/12/2021	Nickel	<4	7.1	2.000	100.00	4/11/2016	NA	9/22/2015
MW-110A	10/6/2021	Nickel	<4	7.1	2.000	100.00	4/11/2016	NA	9/22/2015
MW-110A	4/14/2022	Nickel	55.9	7.1	0.000	100.00	4/11/2016	NA	9/22/2015
MW-110A	10/25/2022	Nickel	<4	7.1	0.000	100.00	4/11/2016	NA	9/22/2015
MW-110A	4/19/2023	Nickel	21.2	7.1	0.000	100.00	4/11/2016	NA	9/22/2015
MW-110A	10/23/2023	Nickel	9.0	7.1	0.000	100.00	4/11/2016	NA	9/22/2015
MW-110A	4/9/2024	Nickel	456.0	7.1	0.000	100.00	4/11/2016	NA	9/22/2015
MW-110A	10/13/2025	Nickel	6.9	7.1	0.000	100.00	4/11/2016	NA	9/22/2015

Table 7
Summary of Ongoing & Newly Identified SSI
Annual Water Quality Report
Bremer County Sanitary Landfill
Permit No. 09-SDP-01-75C

KEY:	SSI	SSL LCL>GWPS
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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-110A	4/11/2016	Zinc	<8	21.0	---	100.00	4/11/2016	NA	9/22/2015
MW-110A	10/12/2016	Zinc	11.2	21.0	---	100.00	4/11/2016	NA	9/22/2015
MW-110A	4/13/2017	Zinc	<8	21.0	---	100.00	4/11/2016	NA	9/22/2015
MW-110A	10/25/2017	Zinc	<8	21.0	10.000	100.00	4/11/2016	NA	9/22/2015
MW-110A	4/12/2018	Zinc	<20	21.0	10.000	100.00	4/11/2016	NA	9/22/2015
MW-110A	10/16/2018	Zinc	<20	21.0	10.000	100.00	4/11/2016	NA	9/22/2015
MW-110A	4/18/2019	Zinc	<8	21.0	10.000	100.00	4/11/2016	NA	9/22/2015
MW-110A	10/15/2019	Zinc	<20	21.0	10.000	100.00	4/11/2016	NA	9/22/2015
MW-110A	4/6/2020	Zinc	<20	21.0	10.000	100.00	4/11/2016	NA	9/22/2015
MW-110A	10/15/2020	Zinc	<20	21.0	10.000	100.00	4/11/2016	NA	9/22/2015
MW-110A	4/12/2021	Zinc	<20	21.0	10.000	100.00	4/11/2016	NA	9/22/2015
MW-110A	10/6/2021	Zinc	<20	21.0	10.000	100.00	4/11/2016	NA	9/22/2015
MW-110A	4/14/2022	Zinc	<20	21.0	10.000	100.00	4/11/2016	NA	9/22/2015
MW-110A	10/25/2022	Zinc	<20	21.0	10.000	100.00	4/11/2016	NA	9/22/2015
MW-110A	4/19/2023	Zinc	<20	21.0	10.000	100.00	4/11/2016	NA	9/22/2015
MW-110A	10/23/2023	Zinc	31.5	21.0	2.730	100.00	4/11/2016	NA	9/22/2015
MW-110A	4/9/2024	Zinc	21.4	21.0	6.046	100.00	4/11/2016	NA	9/22/2015
MW-110A	10/13/2025	Zinc	19.8	21.0	10.321	100.00	4/11/2016	NA	9/22/2015

Table 7
Summary of Ongoing & Newly Identified SSI
Annual Water Quality Report
Bremer County Sanitary Landfill
Permit No. 09-SDP-01-75C

KEY:	SSI	SSL LCL>GWPS
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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-110A	4/11/2016	1,1-dichloroethane	<1.0	1.0	0.500	140	10/12/2016	NA	9/22/2015
MW-110A	10/12/2016	1,1-dichloroethane	1.1	1.0	0.297	140	10/12/2016	NA	9/22/2015
MW-110A	4/13/2017	1,1-dichloroethane	<1.0	1.0	0.297	140	10/12/2016	NA	9/22/2015
MW-110A	10/25/2017	1,1-dichloroethane	1.3	1.0	0.365	140	10/12/2016	NA	9/22/2015
MW-110A	4/12/2018	1,1-dichloroethane	<1.0	1.0	0.365	140	10/12/2016	NA	9/22/2015
MW-110A	10/16/2018	1,1-dichloroethane	<1.0	1.0	0.229	140	10/12/2016	NA	9/22/2015
MW-110A	4/18/2019	1,1-dichloroethane	<1.0	1.0	0.229	140	10/12/2016	NA	9/22/2015
MW-110A	10/15/2019	1,1-dichloroethane	1.4	1.0	0.196	140	10/12/2016	NA	9/22/2015
MW-110A	4/6/2020	1,1-dichloroethane	1.2	1.0	0.348	140	10/12/2016	NA	9/22/2015
MW-110A	10/15/2020	1,1-dichloroethane	1.5	1.0	0.620	140	10/12/2016	NA	9/22/2015
MW-110A	4/12/2021	1,1-dichloroethane	1.6	1.0	1.224	140	10/12/2016	NA	9/22/2015
MW-110A	10/6/2021	1,1-dichloroethane	1.6	1.0	1.252	140	10/12/2016	NA	9/22/2015
MW-110A	4/14/2022	1,1-dichloroethane	<1.0	1.0	0.670	140	10/12/2016	NA	9/22/2015
MW-110A	10/25/2022	1,1-dichloroethane	2.0	1.0	0.666	140	10/12/2016	NA	9/22/2015
MW-110A	4/19/2023	1,1-dichloroethane	1.3	1.0	0.603	140	10/12/2016	NA	9/22/2015
MW-110A	10/23/2023	1,1-dichloroethane	<1.0	1.0	0.225	140	10/12/2016	NA	9/22/2015
MW-110A	4/9/2024	1,1-dichloroethane	1.1	1.0	0.498	140	10/12/2016	NA	9/22/2015
MW-110A	10/13/2025	1,1-dichloroethane	<1.0	1.0	0.365	140	10/12/2016	NA	9/22/2015

Table 7
Summary of Ongoing & Newly Identified SSI
Annual Water Quality Report
Bremer County Sanitary Landfill
Permit No. 09-SDP-01-75C

KEY:	SSI	SSL LCL>GWPS
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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-110A	4/11/2016	1,4-dichlorobenzene	13.6	1.0	7.816	75	4/11/2016	NA	9/22/2015
MW-110A	10/12/2016	1,4-dichlorobenzene	12.7	1.0	8.175	75	4/11/2016	NA	9/22/2015
MW-110A	4/13/2017	1,4-dichlorobenzene	11.0	1.0	11.203	75	4/11/2016	NA	9/22/2015
MW-110A	10/25/2017	1,4-dichlorobenzene	11.6	1.0	10.865	75	4/11/2016	NA	9/22/2015
MW-110A	4/12/2018	1,4-dichlorobenzene	12.1	1.0	10.999	75	4/11/2016	NA	9/22/2015
MW-110A	10/16/2018	1,4-dichlorobenzene	12.1	1.0	11.085	75	4/11/2016	NA	9/22/2015
MW-110A	4/18/2019	1,4-dichlorobenzene	9.7	1.0	10.033	75	4/11/2016	NA	9/22/2015
MW-110A	10/15/2019	1,4-dichlorobenzene	<1.0	1.0	2.110	75	4/11/2016	NA	9/22/2015
MW-110A	4/6/2020	1,4-dichlorobenzene	<1.0	1.0	0.000	75	4/11/2016	NA	9/22/2015
MW-110A	10/15/2020	1,4-dichlorobenzene	11.9	1.0	0.000	75	4/11/2016	NA	9/22/2015
MW-110A	4/12/2021	1,4-dichlorobenzene	6.8	1.0	0.000	75	4/11/2016	NA	9/22/2015
MW-110A	10/6/2021	1,4-dichlorobenzene	5.4	1.0	0.634	75	4/11/2016	NA	9/22/2015
MW-110A	4/14/2022	1,4-dichlorobenzene	4.7	1.0	3.374	75	4/11/2016	NA	9/22/2015
MW-110A	10/25/2022	1,4-dichlorobenzene	5.2	1.0	4.467	75	4/11/2016	NA	9/22/2015
MW-110A	4/19/2023	1,4-dichlorobenzene	5.4	1.0	4.786	75	4/11/2016	NA	9/22/2015
MW-110A	10/23/2023	1,4-dichlorobenzene	3.4	1.0	3.617	75	4/11/2016	NA	9/22/2015
MW-110A	4/9/2024	1,4-dichlorobenzene	3.6	1.0	3.170	75	4/11/2016	NA	9/22/2015
MW-110A	10/13/2025	1,4-dichlorobenzene	4.1	1.0	3.067	75	4/11/2016	NA	9/22/2015

Table 7
Summary of Ongoing & Newly Identified SSI
Annual Water Quality Report
Bremer County Sanitary Landfill
Permit No. 09-SDP-01-75C

KEY:	SSI	SSL LCL>GWPS
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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-110A	4/11/2016	Benzene	<1.0	1.0	1.012	5	10/12/2016	NA	9/22/2015
MW-110A	10/12/2016	Benzene	5.4	1.0	1.040	5	10/12/2016	NA	9/22/2015
MW-110A	4/13/2017	Benzene	3.5	1.0	0.956	5	10/12/2016	NA	9/22/2015
MW-110A	10/25/2017	Benzene	4.3	1.0	0.955	5	10/12/2016	NA	9/22/2015
MW-110A	4/12/2018	Benzene	5.1	1.0	3.571	5	10/12/2016	NA	9/22/2015
MW-110A	10/16/2018	Benzene	1.6	1.0	1.861	5	10/12/2016	NA	9/22/2015
MW-110A	4/18/2019	Benzene	2.6	1.0	1.530	5	10/12/2016	NA	9/22/2015
MW-110A	10/15/2019	Benzene	5.2	1.0	1.498	5	10/12/2016	NA	9/22/2015
MW-110A	4/6/2020	Benzene	4.0	1.0	1.494	5	10/12/2016	NA	9/22/2015
MW-110A	10/15/2020	Benzene	4.4	1.0	2.770	5	10/12/2016	NA	9/22/2015
MW-110A	4/12/2021	Benzene	4.0	1.0	3.735	5	10/12/2016	NA	9/22/2015
MW-110A	10/6/2021	Benzene	3.4	1.0	3.465	5	10/12/2016	NA	9/22/2015
MW-110A	4/14/2022	Benzene	3.5	1.0	3.279	5	10/12/2016	NA	9/22/2015
MW-110A	10/25/2022	Benzene	3.8	1.0	3.351	5	10/12/2016	NA	9/22/2015
MW-110A	4/19/2023	Benzene	2.3	1.0	2.479	5	10/12/2016	NA	9/22/2015
MW-110A	10/23/2023	Benzene	2.6	1.0	2.210	5	10/12/2016	NA	9/22/2015
MW-110A	4/9/2024	Benzene	3.4	1.0	2.208	5	10/12/2016	NA	9/22/2015
MW-110A	10/13/2025	Benzene	1.6	1.0	1.598	5	10/12/2016	NA	9/22/2015

Table 7
Summary of Ongoing & Newly Identified SSI
Annual Water Quality Report
Bremer County Sanitary Landfill
Permit No. 09-SDP-01-75C

KEY:	SSI	SSL LCL>GWPS
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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-110A	4/11/2016	Chlorobenzene	<1.0	1.0	1.210	100	10/12/2016	NA	9/22/2015
MW-110A	10/12/2016	Chlorobenzene	6.8	1.0	1.116	100	10/12/2016	NA	9/22/2015
MW-110A	4/13/2017	Chlorobenzene	3.7	1.0	0.492	100	10/12/2016	NA	9/22/2015
MW-110A	10/25/2017	Chlorobenzene	5.1	1.0	0.884	100	10/12/2016	NA	9/22/2015
MW-110A	4/12/2018	Chlorobenzene	5.7	1.0	3.805	100	10/12/2016	NA	9/22/2015
MW-110A	10/16/2018	Chlorobenzene	3.6	1.0	3.301	100	10/12/2016	NA	9/22/2015
MW-110A	4/18/2019	Chlorobenzene	5.4	1.0	3.853	100	10/12/2016	NA	9/22/2015
MW-110A	10/15/2019	Chlorobenzene	6.1	1.0	3.901	100	10/12/2016	NA	9/22/2015
MW-110A	4/6/2020	Chlorobenzene	5.9	1.0	3.911	100	10/12/2016	NA	9/22/2015
MW-110A	10/15/2020	Chlorobenzene	7.6	1.0	5.136	100	10/12/2016	NA	9/22/2015
MW-110A	4/12/2021	Chlorobenzene	7.9	1.0	5.674	100	10/12/2016	NA	9/22/2015
MW-110A	10/6/2021	Chlorobenzene	8.6	1.0	6.152	100	10/12/2016	NA	9/22/2015
MW-110A	4/14/2022	Chlorobenzene	6.3	1.0	6.468	100	10/12/2016	NA	9/22/2015
MW-110A	10/25/2022	Chlorobenzene	8.7	1.0	6.571	100	10/12/2016	NA	9/22/2015
MW-110A	4/19/2023	Chlorobenzene	5.1	1.0	5.090	100	10/12/2016	NA	9/22/2015
MW-110A	10/23/2023	Chlorobenzene	6.5	1.0	4.886	100	10/12/2016	NA	9/22/2015
MW-110A	4/9/2024	Chlorobenzene	7.6	1.0	5.164	100	10/12/2016	NA	9/22/2015
MW-110A	10/13/2025	Chlorobenzene	4.0	1.0	3.945	100	10/12/2016	NA	9/22/2015

Table 7
Summary of Ongoing & Newly Identified SSI
Annual Water Quality Report
Bremer County Sanitary Landfill
Permit No. 09-SDP-01-75C

KEY:	SSI	SSL LCL>GWPS
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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-110A	4/11/2016	Chloroethane	<1.0	1.0	0.764	2,800.00	10/12/2016	NA	9/22/2015
MW-110A	10/12/2016	Chloroethane	3.1	1.0	0.764	2,800.00	10/12/2016	NA	9/22/2015
MW-110A	4/13/2017	Chloroethane	2.5	1.0	0.814	2,800.00	10/12/2016	NA	9/22/2015
MW-110A	10/25/2017	Chloroethane	3.0	1.0	0.849	2,800.00	10/12/2016	NA	9/22/2015
MW-110A	4/12/2018	Chloroethane	2.2	1.0	0.849	2,800.00	10/12/2016	NA	9/22/2015
MW-110A	10/16/2018	Chloroethane	1.8	1.0	0.674	2,800.00	10/12/2016	NA	9/22/2015
MW-110A	4/18/2019	Chloroethane	2.2	1.0	0.674	2,800.00	10/12/2016	NA	9/22/2015
MW-110A	10/15/2019	Chloroethane	2.4	1.0	0.721	2,800.00	10/12/2016	NA	9/22/2015
MW-110A	4/6/2020	Chloroethane	2.1	1.0	1.831	2,800.00	10/12/2016	NA	9/22/2015
MW-110A	10/15/2020	Chloroethane	2.8	1.0	2.011	2,800.00	10/12/2016	NA	9/22/2015
MW-110A	4/12/2021	Chloroethane	2.1	1.0	1.96	2,800.00	10/12/2016	NA	9/22/2015
MW-110A	10/6/2021	Chloroethane	1.5	1.0	1.500	2,800.00	10/12/2016	NA	9/22/2015
MW-110A	4/14/2022	Chloroethane	1.5	1.0	1.248	2,800.00	10/12/2016	NA	9/22/2015
MW-110A	10/25/2022	Chloroethane	3.3	1.0	1.102	2,800.00	10/12/2016	NA	9/22/2015
MW-110A	4/19/2023	Chloroethane	1.8	1.0	1.011	2,800.00	10/12/2016	NA	9/22/2015
MW-110A	10/23/2023	Chloroethane	1.8	1.0	1.144	2,800.00	10/12/2016	NA	9/22/2015
MW-110A	4/9/2024	Chloroethane	1.4	1.0	1.089	2,800.00	10/12/2016	NA	9/22/2015
MW-110A	10/13/2025	Chloroethane	3.8	1.0	0.926	2,800.00	10/12/2016	NA	9/22/2015

Table 7
Summary of Ongoing & Newly Identified SSI
Annual Water Quality Report
Bremer County Sanitary Landfill
Permit No. 09-SDP-01-75C

KEY:	SSI	SSL LCL>GWPS
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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-110A	4/11/2016	Ethylbenzene	<1.0	1.0	0.297	700	NA	NA	9/22/2015
MW-110A	10/12/2016	Ethylbenzene	<1.0	1.0	0.297	700	NA	NA	9/22/2015
MW-110A	4/13/2017	Ethylbenzene	<1.0	1.0	0.398	700	NA	NA	9/22/2015
MW-110A	10/25/2017	Ethylbenzene	<1.0	1.0	0.500	700	NA	NA	9/22/2015
MW-110A	4/12/2018	Ethylbenzene	<1.0	1.0	0.500	700	NA	NA	9/22/2015
MW-110A	10/16/2018	Ethylbenzene	<1.0	1.0	0.500	700	NA	NA	9/22/2015
MW-110A	4/18/2019	Ethylbenzene	<1.0	1.0	0.500	700	NA	NA	9/22/2015
MW-110A	10/15/2019	Ethylbenzene	<1.0	1.0	0.500	700	NA	NA	9/22/2015
MW-110A	4/6/2020	Ethylbenzene	<1.0	1.0	0.500	700	NA	NA	9/22/2015
MW-110A	10/15/2020	Ethylbenzene	<1.0	1.0	0.500	700	NA	NA	9/22/2015
MW-110A	4/12/2021	Ethylbenzene	<1.0	1.0	0.500	700	NA	NA	9/22/2015
MW-110A	10/6/2021	Ethylbenzene	<1.0	1.0	0.500	700	NA	NA	9/22/2015
MW-110A	4/14/2022	Ethylbenzene	<1.0	1.0	0.500	700	NA	NA	9/22/2015
MW-110A	10/25/2022	Ethylbenzene	<1.0	1.0	0.500	700	NA	NA	9/22/2015
MW-110A	4/19/2023	Ethylbenzene	<1.0	1.0	0.500	700	NA	NA	9/22/2015
MW-110A	10/23/2023	Ethylbenzene	<1.0	1.0	0.500	700	NA	NA	9/22/2015
MW-110A	4/9/2024	Ethylbenzene	<1.0	1.0	0.500	700	NA	NA	9/22/2015
MW-110A	10/13/2025	Ethylbenzene	<1.0	1.0	0.500	700	NA	NA	9/22/2015

Table 7
Summary of Ongoing & Newly Identified SSI
Annual Water Quality Report
Bremer County Sanitary Landfill
Permit No. 09-SDP-01-75C

KEY:	SSI	SSL LCL>GWPS
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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-110A	4/11/2016	Toluene	<1.0	1.0	0.500	1,000.00	NA	NA	9/22/2015
MW-110A	10/12/2016	Toluene	<1.0	1.0	0.500	1,000.00	NA	NA	9/22/2015
MW-110A	4/13/2017	Toluene	1.0	1.0	0.331	1,000.00	NA	NA	9/22/2015
MW-110A	10/25/2017	Toluene	<1.0	1.0	0.331	1,000.00	NA	NA	9/22/2015
MW-110A	4/12/2018	Toluene	<1.0	1.0	0.331	1,000.00	NA	NA	9/22/2015
MW-110A	10/16/2018	Toluene	<1.0	1.0	0.331	1,000.00	NA	NA	9/22/2015
MW-110A	4/18/2019	Toluene	<1.0	1.0	0.500	1,000.00	NA	NA	9/22/2015
MW-110A	10/15/2019	Toluene	<1.0	1.0	0.500	1,000.00	NA	NA	9/22/2015
MW-110A	4/6/2020	Toluene	<1.0	1.0	0.500	1,000.00	NA	NA	9/22/2015
MW-110A	10/15/2020	Toluene	<1.0	1.0	0.500	1,000.00	NA	NA	9/22/2015
MW-110A	4/12/2021	Toluene	<1.0	1.0	0.500	1,000.00	NA	NA	9/22/2015
MW-110A	10/6/2021	Toluene	<1.0	1.0	0.500	1,000.00	NA	NA	9/22/2015
MW-110A	4/14/2022	Toluene	<1.0	1.0	0.500	1,000.00	NA	NA	9/22/2015
MW-110A	10/25/2022	Toluene	<1.0	1.0	0.500	1,000.00	NA	NA	9/22/2015
MW-110A	4/19/2023	Toluene	<1.0	1.0	0.500	1,000.00	NA	NA	9/22/2015
MW-110A	10/23/2023	Toluene	<1.0	1.0	0.500	1,000.00	NA	NA	9/22/2015
MW-110A	4/9/2024	Toluene	<1.0	1.0	0.500	1,000.00	NA	NA	9/22/2015
MW-110A	10/13/2025	Toluene	<1.0	1.0	0.500	1,000.00	NA	NA	9/22/2015

Table 7
Summary of Ongoing & Newly Identified SSI
Annual Water Quality Report
Bremer County Sanitary Landfill
Permit No. 09-SDP-01-75C

KEY:	SSI	SSL LCL>GWPS
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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-110A	4/11/2016	Vinyl Chloride	<1.0	1.0	0.592	2	10/12/2016	NA	9/22/2015
MW-110A	10/12/2016	Vinyl Chloride	1.3	1.0	0.605	2	10/12/2016	NA	9/22/2015
MW-110A	4/13/2017	Vinyl Chloride	1.2	1.0	0.621	2	10/12/2016	NA	9/22/2015
MW-110A	10/25/2017	Vinyl Chloride	1.0	1.0	0.581	2	10/12/2016	NA	9/22/2015
MW-110A	4/12/2018	Vinyl Chloride	<1.0	1.0	0.581	2	10/12/2016	NA	9/22/2015
MW-110A	10/16/2018	Vinyl Chloride	<1.0	1.0	0.381	2	10/12/2016	NA	9/22/2015
MW-110A	4/18/2019	Vinyl Chloride	<1.0	1.0	0.331	2	10/12/2016	NA	9/22/2015
MW-110A	10/15/2019	Vinyl Chloride	2.0	1.0	0.000	2	10/12/2016	NA	9/22/2015
MW-110A	4/6/2020	Vinyl Chloride	1.0	1.0	0.168	2	10/12/2016	NA	9/22/2015
MW-110A	10/15/2020	Vinyl Chloride	<1.0	1.0	0.168	2	10/12/2016	NA	9/22/2015
MW-110A	4/12/2021	Vinyl Chloride	<1.0	1.0	0.168	2	10/12/2016	NA	9/22/2015
MW-110A	10/6/2021	Vinyl Chloride	<1.0	1.0	0.331	2	10/12/2016	NA	9/22/2015
MW-110A	4/14/2022	Vinyl Chloride	<1.0	1.0	0.500	2	10/12/2016	NA	9/22/2015
MW-110A	10/25/2022	Vinyl Chloride	<1.0	1.0	0.500	2	10/12/2016	NA	9/22/2015
MW-110A	4/19/2023	Vinyl Chloride	<1.0	1.0	0.500	2	10/12/2016	NA	9/22/2015
MW-110A	10/23/2023	Vinyl Chloride	<1.0	1.0	0.500	2	10/12/2016	NA	9/22/2015
MW-110A	4/9/2024	Vinyl Chloride	<1.0	1.0	0.500	2	10/12/2016	NA	9/22/2015
MW-110A	10/13/2025	Vinyl Chloride	<1.0	1.0	0.500	2	10/12/2016	NA	9/22/2015

Table 7 **KEY:** **SSI** **SSL LCL>GWPS**
Summary of Ongoing & Newly Identified SSI *Note: The absence of shading indicates that the condition does not exist.*
Annual Water Quality Report
Bremer County Sanitary Landfill
Permit No. 09-SDP-01-75C

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-110A	4/11/2016	Xylenes	<2.0	2.0	1.000	10,000.00	4/13/2017	NA	9/22/2015
MW-110A	10/12/2016	Xylenes	<2.0	2.0	1.000	10,000.00	4/13/2017	NA	9/22/2015
MW-110A	4/13/2017	Xylenes	2.5	2.0	0.493	10,000.00	4/13/2017	NA	9/22/2015
MW-110A	10/25/2017	Xylenes	<2.0	2.0	0.493	10,000.00	4/13/2017	NA	9/22/2015
MW-110A	4/12/2018	Xylenes	<2.0	2.0	0.493	10,000.00	4/13/2017	NA	9/22/2015
MW-110A	10/16/2018	Xylenes	<2.0	2.0	0.493	10,000.00	4/13/2017	NA	9/22/2015
MW-110A	4/18/2019	Xylenes	<2.0	2.0	1.000	10,000.00	4/13/2017	NA	9/22/2015
MW-110A	10/15/2019	Xylenes	6.6	2.0	0.000	10,000.00	4/13/2017	NA	9/22/2015
MW-110A	4/6/2020	Xylenes	<2.0	2.0	0.000	10,000.00	4/13/2017	NA	9/22/2015
MW-110A	10/15/2020	Xylenes	<2.0	2.0	0.000	10,000.00	4/13/2017	NA	9/22/2015
MW-110A	4/12/2021	Xylenes	<2.0	2.0	0.000	10,000.00	4/13/2017	NA	9/22/2015
MW-110A	10/6/2021	Xylenes	<2.0	2.0	1.000	10,000.00	4/13/2017	NA	9/22/2015
MW-110A	4/14/2022	Xylenes	<2.0	2.0	1.000	10,000.00	4/13/2017	NA	9/22/2015
MW-110A	10/25/2022	Xylenes	<2.0	2.0	1.000	10,000.00	4/13/2017	NA	9/22/2015
MW-110A	4/19/2023	Xylenes	<2.0	2.0	1.000	10,000.00	4/13/2017	NA	9/22/2015
MW-110A	10/23/2023	Xylenes	<2.0	2.0	1.000	10,000.00	4/13/2017	NA	9/22/2015
MW-110A	4/9/2024	Xylenes	<2.0	2.0	1.000	10,000.00	4/13/2017	NA	9/22/2015
MW-110A	10/13/2025	Xylenes	<2.0	2.0	1.000	10,000.00	4/13/2017	NA	9/22/2015

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

Table 8

KEY:

SSI

SSL UCL>GWPS

Summary of Ongoing & Newly Identified SSL

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

Annual Water Quality Report

Bremer County Sanitary Landfill

Permit No. 09-SDP-01-75C

Monitoring Well	Compound	Sample Date	Each	95% UCL (ug/L)	GWPS Limit (ug/L)	SSL Initial	Compliance Date	Compliance Date	Compliance Date
			Result (ug/L)			Exceedance	1st Occurrence	Most Recent	Duration (years)
MW-108A	4/11/2016	Arsenic	18.6	23.791	10	4/11/2016	NA	NA	NA
MW-108A	10/12/2016	Arsenic	27.9	26.602	10	4/11/2016	NA	NA	NA
MW-108A	4/13/2017	Arsenic	17.1	26.581	10	4/11/2016	NA	NA	NA
MW-108A	10/25/2017	Arsenic	7.9	27.506	10	4/11/2016	NA	NA	NA
MW-108A	4/12/2018	Arsenic	10.7	26.344	10	4/11/2016	NA	NA	NA
MW-108A	10/16/2018	Arsenic	17.5	18.900	10	4/11/2016	NA	NA	NA
MW-108A	4/18/2019	Arsenic	16.5	18.571	10	4/11/2016	NA	NA	NA
MW-108A	10/15/2019	Arsenic	11.6	18.100	10	4/11/2016	NA	NA	NA
MW-108A	4/6/2020	Arsenic	6.4	18.999	10	4/11/2016	NA	NA	NA
MW-108A	10/15/2020	Arsenic	21.5	20.245	10	4/11/2016	NA	NA	NA
MW-108A	4/12/2021	Arsenic	<4.0	18.911	10	4/11/2016	NA	NA	NA
MW-108A	10/6/2021	Arsenic	4.1	21.624	10	4/11/2016	NA	NA	NA
MW-108A	4/14/2022	Arsenic	9.0	19.431	10	4/11/2016	NA	NA	NA
MW-108A	10/25/2022	Arsenic	12.4	12.413	10	4/11/2016	NA	NA	NA
MW-108A	4/19/2023	Arsenic	<4.0	12.413	10	4/11/2016	NA	NA	NA
MW-108A	10/23/2023	Arsenic	14.1	15.673	10	4/11/2016	NA	NA	NA
MW-108A	4/9/2024	Arsenic	9.4	15.767	10	4/11/2016	NA	NA	NA
MW-108A	10/13/2025	Arsenic	14.4	16.784	10	4/11/2016	NA	NA	NA

Table 8
Summary of Ongoing & Newly Identified SSL
Annual Water Quality Report
Bremer County Sanitary Landfill
Permit No. 09-SDP-01-75C

KEY:	SSI	SSL UCL>GWPS
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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)	95% UCL (ug/L)	GWPS Limit (ug/L)	SSL Initial Exceedance	Compliance Date 1st Occurrence	Compliance Date Most Recent	Compliance Date Duration (years)
MW-110A	4/11/2016	Arsenic	24.4	36.695	10	4/11/2016	NA	NA	NA
MW-110A	10/12/2016	Arsenic	44.8	43.372	10	4/11/2016	NA	NA	NA
MW-110A	4/13/2017	Arsenic	33.3	43.9	10	4/11/2016	NA	NA	NA
MW-110A	10/25/2017	Arsenic	37.6	45.053	10	4/11/2016	NA	NA	NA
MW-110A	4/12/2018	Arsenic	36.3	43.738	10	4/11/2016	NA	NA	NA
MW-110A	10/16/2018	Arsenic	50.2	48.118	10	4/11/2016	NA	NA	NA
MW-110A	4/18/2019	Arsenic	21.8	50.143	10	4/11/2016	NA	NA	NA
MW-110A	10/15/2019	Arsenic	54.2	57.927	10	4/11/2016	NA	NA	NA
MW-110A	4/6/2020	Arsenic	44.7	59.762	10	4/11/2016	NA	NA	NA
MW-110A	10/15/2020	Arsenic	53.1	61.146	10	4/11/2016	NA	NA	NA
MW-110A	4/12/2021	Arsenic	43.8	55.37	10	4/11/2016	NA	NA	NA
MW-110A	10/6/2021	Arsenic	42.2	51.687	10	4/11/2016	NA	NA	NA
MW-110A	4/14/2022	Arsenic	19.5	56.432	10	4/11/2016	NA	NA	NA
MW-110A	10/25/2022	Arsenic	67.1	66.022	10	4/11/2016	NA	NA	NA
MW-110A	4/19/2023	Arsenic	18.7	63.820	10	4/11/2016	NA	NA	NA
MW-110A	10/23/2023	Arsenic	57.6	70.452	10	4/11/2016	NA	NA	NA
MW-110A	4/9/2024	Arsenic	7.0	71.987	10	4/11/2016	NA	NA	NA
MW-110A	10/13/2025	Arsenic	172.0	152.388	10	4/11/2016	NA	NA	NA

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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)	95% UCL (ug/L)	GWPS Limit (ug/L)	SSL Initial Exceedance	Compliance Date 1st Occurrence	Compliance Date Most Recent	Compliance Date Duration (years)
MW-110A	4/11/2016	Cobalt	13.3	13.811	2.8	10/12/2016	NA	NA	NA
MW-110A	10/12/2016	Cobalt	12.5	15.837	2.8	10/12/2016	NA	NA	NA
MW-110A	4/13/2017	Cobalt	10.8	16.002	2.8	10/12/2016	NA	NA	NA
MW-110A	10/25/2017	Cobalt	7.7	13.992	2.8	10/12/2016	NA	NA	NA
MW-110A	4/12/2018	Cobalt	18.5	17.717	2.1	10/12/2016	NA	NA	NA
MW-110A	10/16/2018	Cobalt	19.8	21.114	2.1	10/12/2016	NA	NA	NA
MW-110A	4/18/2019	Cobalt	23.7	25.482	2.1	10/12/2016	NA	NA	NA
MW-110A	10/15/2019	Cobalt	4.3	26.546	2.1	10/12/2016	NA	NA	NA
MW-110A	4/6/2020	Cobalt	39.3	38.687	2.1	10/12/2016	NA	NA	NA
MW-110A	10/15/2020	Cobalt	4.8	37.803	2.1	10/12/2016	NA	NA	NA
MW-110A	4/12/2021	Cobalt	11.2	34.388	2.1	10/12/2016	NA	NA	NA
MW-110A	10/6/2021	Cobalt	12.3	34.891	2.1	10/12/2016	NA	NA	NA
MW-110A	4/14/2022	Cobalt	191.0	161.683	2.1	10/12/2016	NA	NA	NA
MW-110A	10/25/2022	Cobalt	6.5	161.745	2.1	10/12/2016	NA	NA	NA
MW-110A	4/19/2023	Cobalt	91.4	176.825	2.1	10/12/2016	NA	NA	NA
MW-110A	10/23/2023	Cobalt	18.0	176.662	2.1	10/12/2016	NA	NA	NA
MW-110A	4/9/2024	Cobalt	1460.0	1231.113	2.1	10/12/2016	NA	NA	NA
MW-110A	10/13/2025	Cobalt	30.3	1232.085	2.1	10/12/2016	NA	NA	NA

Table 9 – Analytical Data Summary

Table 9

Analytical Data Summary for MW-1

Constituents	Units	10/15/2014	1/12/2015	4/13/2015	7/21/2015	9/22/2015	4/11/2016	10/12/2016	4/13/2017
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
1,1,2,2-tetrachloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-trichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethene	ug/L	<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	370	385	385	336	307	284	324	341
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	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chromium, total	ug/L	<8	<8	<8	<8	<8	<8	<8	<8
Cis-1,2-dichloroethene	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	<.8	<.8	<.8	<.8	<.8	<.8	<.8	<.8
Copper, total	ug/L	<4.0	<4.0	<4.0	<4.0	<4.0	8.4	<4.0	<4.0
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	<4	<4	<4	<4	<4	<4	<4
Silver, total	ug/L	<4	<4	<4	<4	<4	<4	<4	<4
Solids, total suspended	mg/L	3		<2					
Styrene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	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-dichloroethene	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
Trichloroethene	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	<8	<8	<8	<8	<8	<8	<8

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

Table 9

Analytical Data Summary for MW-1

Constituents	10/25/2017	4/12/2018	10/16/2018	4/18/2019	10/15/2019	4/6/2020	10/15/2020	4/12/2021	10/6/2021
1,1,1,2-tetrachloroethane	<1	<1	<1	<1	<1	<1	<1		<1
1,1,1-trichloroethane	<1	<1	<1	<1	<1	<1	<1		<1
1,1,2,2-tetrachloroethane	<1	<1	<1	<1	<1	<1	<1		<1
1,1,2-trichloroethane	<1	<1	<1	<1	<1	<1	<1		<1
1,1-dichloroethane	<1	<1	<1	<1	<1	<1	<1		<1
1,1-dichloroethene	<1	<1	<1	<1	<1	<1	<1		<1
1,2,3-trichloropropane	<1	<1	<1	<1	<1	<1	<1		<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
1,4-dichlorobenzene	<1	<1	<1	<1	<1	<1	<1		<1
2-butanone (mek)	<5	<5	<5	<5	<5	<5	<5		<5
2-hexanone (mbk)	<5	<5	<5	<5	<5	<5	<5		<5
4-methyl-2-pentanone (mibk)	<5	<5	<5	<5	<5	<5	<5		<5
Acetone	<10	<10	<10	<10	<10	<10	<10		<10
Acrylonitrile	<5	<5	<5	<5	<5	<5	<5		<5
Antimony, total	<2	<2	<2	<2	<2	<2	<2	<2	<2
Arsenic, total	<4	<4	<4	<4	<4	<4	<4	<4	<4
Barium, total	325	323	297	365	340	334	316	351	315
Benzene	<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
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
Cadmium, total	<.8	<.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
Chlorobenzene	<1	<1	<1	<1	<1	<1	<1		<1
Chloroethane	<1	<1	<1	<1	<1	<1	<1		<1
Chloroform	<1	<1	<1	<1	<1	<1	<1		<1
Chloromethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0		<1.0
Chromium, total	<8	<8	<8	<8	<8	<8	<8	<8	<8
Cis-1,2-dichloroethene	<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	<.8	<.8	<.8	<.8	<.8	<.8
Copper, total	<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
Dibromomethane	<1	<1	<1	<1	<1	<1	<1		<1
Ethylbenzene	<1	<1	<1	<1	<1	<1	<1		<1
Lead, total	<4	<4	<4	<4	<4	<4	<4	<4	<4
Methyl iodide	<1	<1	<1	<1	<1	<1	<1		<1
Methylene chloride	<5	<5	<5	<5	<5	<5	<5		<5
Nickel, total	<4	<4	<4	<4	<4	<4	<4	<4	<4
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
Tetrachloroethene	<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
Toluene	<1	<1	<1	<1	<1	<1	<1		<1
Trans-1,2-dichloroethene	<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
Trichloroethene	<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	<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	<20	<20	<8	<20	<20	<20	<20	<20

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

Table 9

Analytical Data Summary for MW-1

Constituents	4/14/2022	10/25/2022	4/19/2023	10/23/2023	4/9/2024	6/13/2024	10/13/2025
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-dichloroethene	<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	335	331	332	331	361		354
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	2.1	<.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	<1.0	<1.0	<1.0	<1.0	7.9	<1.0	<1.0
Chromium, total	<8	<8	<8	<8	<8		1
Cis-1,2-dichloroethene	<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	<4.0	<4.0	<4.0	<4.0	<4.0		<5.0
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	<4	<4	<4	<4		<2
Silver, total	<4	<4	<4	<4	<4		<5
Solids, total suspended							
Styrene	<1	<1	<1	<1	<1		<1
Tetrachloroethene	<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-dichloroethene	<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
Trichloroethene	<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	<20	<20	<20	<20		<5

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

Table 9

Analytical Data Summary for MW-105B

Constituents	Units	10/15/2014	4/13/2015	9/24/2015	12/30/2015	4/11/2016	10/12/2016	4/13/2017	10/25/2017
(3,4)-methylphenol	ug/L	<8		<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-dichloroethene	ug/L	<1	<1	<1		<1	<1	<1	<1
1,1-dichloropropene	ug/L	<1		<1					
1,2,3-trichloropropane	ug/L	<1	<1	<1		<1	<1	<1	<1
1,2,4,5-tetrachlorobenzene	ug/L	<8		<8					
1,2,4-trichlorobenzene	ug/L	<1		<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		<8					
1,3,5-trinitrobenzene	ug/L	<8		<8					
1,3-dichlorobenzene	ug/L	<1		<1					
1,3-dichloropropane	ug/L	<1		<1					
1,3-dinitrobenzene	ug/L	<8		<8					
1,4-dichlorobenzene	ug/L	<1	<1	<1		<1	<1	<1	<1
1,4-naphthoquinone	ug/L	<8		<8					
1,4-phenylenediamine	ug/L	<8		<8					
1-naphthylamine	ug/L	<8		<8					
2,2-dichloropropane	ug/L	<1		<1					
2,3,4,6-tetrachlorophenol	ug/L	<8		<8					
2,4,5-t	ug/L	<.5		<.5					
2,4,5-tp (silvex)	ug/L	<.5		<.5					
2,4,5-trichlorophenol	ug/L	<8		<8					
2,4,6-trichlorophenol	ug/L	<8		<8					
2,4-d	ug/L	<2		<2					
2,4-dichlorophenol	ug/L	<8		<8					
2,4-dimethylphenol	ug/L	<8		<8					
2,4-dinitrophenol	ug/L	<8		<8					
2,4-dinitrotoluene	ug/L	<8		<8					
2,6-dichlorophenol	ug/L	<8		<8					
2,6-dinitrotoluene	ug/L	<8		<8					
2-acetylaminofluorene	ug/L	<8		<8					
2-butanone (mek)	ug/L	<5	<5	<5		<5	<5	<5	<5
2-chloronaphthalene	ug/L	<8		<8					
2-chlorophenol	ug/L	<8		<8					
2-hexanone (mbk)	ug/L	<5	<5	<5		<5	<5	<5	<5
2-methylnaphthalene	ug/L	<8		<8					
2-methylphenol	ug/L	<8		<8					
2-naphthylamine	ug/L	<8		<8					
2-nitroaniline	ug/L	<8		<8					
2-nitrophenol	ug/L	<8		<8					
3,3'-dichlorobenzidine	ug/L	<8		<8					
3,3-dimethylbenzidine	ug/L	<8		<8					
3-methylcholanthrene	ug/L	<8		<8					
3-nitroaniline	ug/L	<8		<8					
4,4'-ddd	ug/L	<.05		<.05					
4,4'-dde	ug/L	<.05		<.05					
4,4'-ddt	ug/L	<.05		<.05					
4,6-dinitro-2-methylphenol	ug/L	<8		<8					
4-aminobiphenyl	ug/L	<8		<8					
4-bromophenyl phenyl ether	ug/L	<8		<8					
4-chloro-3-methylphenol	ug/L	<8		<8					
4-chloroaniline	ug/L	<8		<8					
4-chlorophenyl phenyl ether	ug/L	<8		<8					
4-methyl-2-pentanone (mibk)	ug/L	<5	<5	<5		<5	<5	<5	<5
4-nitroaniline	ug/L	<8		<8					
4-nitrophenol	ug/L	<8		<8					
5-nitro-o-toluidine	ug/L	<8		<8					
7,12-dimethylbenz [a] anthracene	ug/L	<8		<8					
Acenaphthene	ug/L	<8		<8					
Acenaphthylene	ug/L	<8		<8					
Acetone	ug/L	<10.0	<10.0	<10.0		<10.0	<10.0	<10.0	11.8
Acetonitrile	ug/L	<10		<10					
Acetophenone	ug/L	<8		<8					
Acrolein	ug/L	<10		<10					
Acrylonitrile	ug/L	<5	<5	<5		<5	<5	<5	<5
Aldrin	ug/L	<.05		<.05					
Allyl chloride	ug/L	<1		<1					
Alpha-bhc	ug/L	<.05		<.05					
Anthracene	ug/L	<8		<8					

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

Table 9

Analytical Data Summary for MW-105B

Constituents	1/12/2018	4/12/2018	10/16/2018	4/18/2019	10/15/2019	1/9/2020	4/6/2020	10/15/2020	4/12/2021
(3,4)-methylphenol								0.8	
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-dichloroethene		<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								0.8	
1,2,4-trichlorobenzene								<1	
1,2-dibromo-3-chloropropane		<1	<1	<1	<1		<5	<1	<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								0.8	
1,3,5-trinitrobenzene								0.8	
1,3-dichlorobenzene								<1	
1,3-dichloropropane								<1	
1,3-dinitrobenzene								0.8	
1,4-dichlorobenzene		<1	<1	<1	<1		<1	<1	<1
1,4-naphthoquinone								0.8	
1,4-phenylenediamine								0.8	
1-naphthylamine								0.8	
2,2-dichloropropane								<1	
2,3,4,6-tetrachlorophenol								0.8	
2,4,5-t								0.5	
2,4,5-tp (silvex)								0.5	
2,4,5-trichlorophenol								0.8	
2,4,6-trichlorophenol								0.8	
2,4-d								0.5	
2,4-dichlorophenol								0.8	
2,4-dimethylphenol								0.8	
2,4-dinitrophenol								0.8	
2,4-dinitrotoluene								0.8	
2,6-dichlorophenol								0.8	
2,6-dinitrotoluene								0.8	
2-acetylaminofluorene								0.8	
2-butanone (mek)		<5	<5	<5	<5		<5	0.5	<5
2-chloronaphthalene								0.8	
2-chlorophenol								0.8	
2-hexanone (mbk)		<5	<5	<5	<5		<5	0.5	<5
2-methylnaphthalene								0.8	
2-methylphenol								0.8	
2-naphthylamine								0.8	
2-nitroaniline								0.8	
2-nitrophenol								0.8	
3,3'-dichlorobenzidine								0.8	
3,3-dimethylbenzidine								0.8	
3-methylcholanthrene								0.8	
3-nitroaniline								0.8	
4,4'-ddd								0.5	
4,4'-dde								0.5	
4,4'-ddt								0.5	
4,6-dinitro-2-methylphenol								0.8	
4-aminobiphenyl								0.8	
4-bromophenyl phenyl ether								0.8	
4-chloro-3-methylphenol								0.8	
4-chloroaniline								0.8	
4-chlorophenyl phenyl ether								0.8	
4-methyl-2-pentanone (mibk)		<5	<5	<5	<5		<5	0.5	<5
4-nitroaniline								0.8	
4-nitrophenol								0.8	
5-nitro-o-toluidine								0.8	
7,12-dimethylbenz [a] anthracene								0.8	
Acenaphthene								0.8	
Acenaphthylene								0.8	
Acetone		<10.0	<10.0	<10.0	<10.0		<10.0	<10.0	<10.0
Acetonitrile								<10	
Acetophenone								0.8	
Acrolein								<10	
Acrylonitrile		<5	<5	<5	<5		<5	0.5	<5
Aldrin								0.5	
Allyl chloride								<1	
Alpha-bhc								0.5	
Anthracene								0.8	

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

Table 9

Analytical Data Summary for MW-105B

Constituents	10/6/2021	4/14/2022	10/25/2022	4/19/2023	10/23/2023	4/9/2024	10/13/2025
(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-dichloroethene	<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	<5	<5	<5	<5	<5	<1
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)	<5	<10	<10	<10	<10	<10	<5
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	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
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-105B

Constituents	Units	10/15/2014	4/13/2015	9/24/2015	12/30/2015	4/11/2016	10/12/2016	4/13/2017	10/25/2017
Antimony, total	ug/L	<2	<2	<2		<2	<2	<2	<2
Arochlor 1016	ug/L	<.1		<.1					
Arochlor 1221	ug/L	<.2		<.2					
Arochlor 1232	ug/L	<.2		<.2					
Arochlor 1242	ug/L	<.2		<.2					
Arochlor 1248	ug/L	<.2		<.2					
Arochlor 1254	ug/L	<.1		<.1					
Arochlor 1260	ug/L	<.1		<.1					
Arsenic, total	ug/L	<4	<4	<4		<4	<4	<4	<4
Azobenzene	ug/L	<8		<8					
Barium, total	ug/L	132.0	152.0	197.0		87.4	146.0	103.0	157.0
Benzene	ug/L	<1	<1	<1		<1	<1	<1	<1
Benzo(a)anthracene	ug/L	<8		<8					
Benzo(a)pyrene	ug/L	<8		<8					
Benzo(b)fluoranthene	ug/L	<8		<8					
Benzo(g,h,i)perylene	ug/L	<8		<8					
Benzo(k)fluoranthene	ug/L	<8		<8					
Benzyl alcohol	ug/L	<8		<8					
Beryllium, total	ug/L	<4.0	<4.0	<4.0		<4.0	<4.0	<4.0	<4.0
Beta-bhc	ug/L	<.05		<.05					
Bis (2-chloroethoxy) methane	ug/L	<8		<8					
Bis(2-chloroethyl) ether	ug/L	<8		<8					
Bis(2-ethylhexyl) phthalate	ug/L	12	<10	8		<10	<10	<6	
Bis[2-chloroisopropyl]ether	ug/L	<8		<8					
Bromochloromethane	ug/L	<1	<1	<1		<1	<1	<1	<1
Bromodichloromethane	ug/L	<1	<1	<1		<1	<1	<1	<1
Bromoform	ug/L	<1.0	<1.0	<1.0		<1.0	<1.0	<1.0	<1.0
Bromomethane	ug/L	<1	<1	<1		<1	<1	<1	<1
Butyl benzyl phthalate	ug/L	<8		<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		<.1					
Chlorobenzene	ug/L	<1.0	<1.0	1.9		<1.0	<1.0	<1.0	<1.0
Chlorobenzilate	ug/L	<8		<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		<1					
Chromium, total	ug/L	<8	<8	<8		<8	<8	<8	<8
Chrysene	ug/L	<8		<8					
Cis-1,2-dichloroethene	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	2.6	<.8	11.1	<.8	<.8	<.8	<.8	1.2
Copper, total	ug/L	<4.0	<4.0	<4.0		<4.0	<4.0	<4.0	<4.0
Cyanide, total	mg/L	<.005		<.005					
Delta-bhc	ug/L	<.05		<.05					
Diallate	ug/L	<8		<8					
Dibenzo(a,h)anthracene	ug/L	<8		<8					
Dibenzofuran	ug/L	<8		<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		<1					
Dieldrin	ug/L	<.05		<.05					
Diethyl phthalate	ug/L	<8		<8					
Dimethoate	ug/L	<.4		<.4					
Dimethylphthalate	ug/L	<8		<8					
Di-n-butyl phthalate	ug/L	<8		<8					
Di-n-octyl phthalate	ug/L	<8		<8					
Dinoseb	ug/L	<.5		<.5					
Diphenylamine	ug/L	<8		<8					
Disulfoton	ug/L	<.4		<.4					
Endosulfan i	ug/L	<.05		<.05					
Endosulfan ii	ug/L	<.05		<.05					
Endosulfan sulfate	ug/L	<.05		<.05					
Endrin	ug/L	<.05		<.05					
Endrin aldehyde	ug/L	<.05		<.05					
Ethyl methacrylate	ug/L	<10		<10					
Ethyl methanesulfonate	ug/L	<8		<8					
Ethylbenzene	ug/L	<1	<1	<1		<1	<1	<1	<1
Famphur	ug/L	<.4		<.4					
Fluoranthene	ug/L	<8		<8					
Fluorene	ug/L	<8		<8					
Gamma-bhc (lindane)	ug/L	<.05		<.05					
Heptachlor	ug/L	<.05		<.05					
Heptachlor epoxide	ug/L	<.05		<.05					
Hexachlorobenzene	ug/L	<.05		<.05					

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

Table 9

Analytical Data Summary for MW-105B

Constituents	1/12/2018	4/12/2018	10/16/2018	4/18/2019	10/15/2019	1/9/2020	4/6/2020	10/15/2020	4/12/2021
Antimony, total		<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
Azobenzene								<.8	
Barium, total		130.0	132.0	158.0	182.0		142.0	160.0	128.0
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	<4.0
Beta-bhc								<.05	
Bis (2-chloroethoxy) methane								<.8	
Bis(2-chloroethyl) ether								<.8	
Bis(2-ethylhexyl) phthalate								<.6	
Bis[2-chloroisopropyl]ether								<.8	
Bromochloromethane		<1	<1	<1	<1		<1	<1	<1
Bromodichloromethane		<1	<1	<1	<1		<1	<1	<1
Bromoform		<1.0	<1.0	<1.0	<1.0		<1.0	<1.0	<1.0
Bromomethane		<1	<1	<1	<1		<1	<1	<1
Butyl benzyl phthalate								<.8	
Cadmium, total		<.8	<.8	<.8	1.6	<.8	<.8	<.8	<.8
Carbon disulfide		<1	<1	<1	<1		<1	<1	<1
Carbon tetrachloride		<1	<1	<1	<1		<1	<1	<1
Chlordane								<.1	
Chlorobenzene		<1.0	<1.0	<1.0	<1.0		<1.0	<1.0	<1.0
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	<8	<8	<8		<8	<8	<8
Chrysene								<.8	
Cis-1,2-dichloroethene		<1	<1	<1	<1		<1	<1	<1
Cis-1,3-dichloropropene		<1	<1	<1	<1		<1	<1	<1
Cobalt, total	36.6	1.2	<.8	<.8	<.8		<.4	1.6	<.4
Copper, total		<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
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-105B

Constituents	10/6/2021	4/14/2022	10/25/2022	4/19/2023	10/23/2023	4/9/2024	10/13/2025
Antimony, total	<2	<2	<2	<2	<2	<2	<1
Arochlor 1016							<.2
Arochlor 1221							<.2
Arochlor 1232							<.2
Arochlor 1242							<.2
Arochlor 1248							<.2
Arochlor 1254							<.2
Arochlor 1260							<.2
Arsenic, total	<4	<4	<4	<4	<4	<4	<2
Azobenzene							<8
Barium, total	143.0	132.0	121.0	88.7	102.0	110.0	115.0
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-ethylhexyl) phthalate							6
Bis[2-chloroisopropyl]ether							<8
Bromochloromethane	<1	<1	<1	<1	<1	<1	<1
Bromodichloromethane	<1	<1	<1	<1	<1	<1	<1
Bromoform	<1.0	<1.0	1.4	<1.0	<1.0	<1.0	<1.0
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	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
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	<8	<8	<8	<8	<8	1
Chrysene							<8
Cis-1,2-dichloroethene	<1	<1	<1	<1	<1	<1	<1
Cis-1,3-dichloropropene	<1	<1	<1	<1	<1	<1	<1
Cobalt, total	<.4	1.5	.7	<.4	<.4	<.4	<.5
Copper, total	<4.0	<4.0	<4.0	4.2	<4.0	<4.0	<5.0
Cyanide, total							<.010
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-105B

Constituents	Units	10/15/2014	4/13/2015	9/24/2015	12/30/2015	4/11/2016	10/12/2016	4/13/2017	10/25/2017
Hexachlorobutadiene	ug/L	<8		<8					
Hexachlorocyclopentadiene	ug/L	<8		<8					
Hexachloroethane	ug/L	<8		<8					
Hexachloropropene	ug/L	<8		<8					
Indeno(1,2,3-cd)pyrene	ug/L	<8		<8					
Isobutanol	ug/L	<1000		<1000					
Isodrin	ug/L	<8		<8					
Isophorone	ug/L	<8		<8					
Isosafrole	ug/L	<8		<8					
Kepone	ug/L	<8		<8					
Lead, total	ug/L	<4	<4	<4		<4	<4	<4	<4
Mercury, total	ug/L	<.5		<.5					
Methacrylonitrile	ug/L	<1		<1					
Methapyrilene	ug/L	<8		<8					
Methoxychlor	ug/L	<.05		<.05					
Methyl iodide	ug/L	<1	<1	<1		<1	<1	<1	<1
Methyl methacrylate	ug/L	<1		<1					
Methyl methanesulfonate	ug/L	<8		<8					
Methyl parathion	ug/L	<.4		<.4					
Methylene chloride	ug/L	<5	<5	<5		<5	<5	<5	<5
Naphthalene	ug/L	<8		<8					
Nickel, total	ug/L	<4.0	<4.0	<4.0		<4.0	<4.0	<4.0	<4.0
Nitrobenzene	ug/L	<8		<8					
N-nitrosodiethylamine	ug/L	<8		<8					
N-nitrosodimethylamine	ug/L	<8		<8					
N-nitrosodi-n-butylamine	ug/L	<8		<8					
N-nitroso-di-n-propylamine	ug/L	<8		<8					
N-nitrosodiphenylamine	ug/L	<8		<8					
N-nitrosomethylethylamine	ug/L	<8		<8					
N-nitrosopiperidine	ug/L	<8		<8					
N-nitrosopyrrolidine	ug/L	<8		<8					
O,o,o-triethyl phosphorothioate	ug/L	<.4		<.4					
O-toluidine	ug/L	<8		<8					
P-(dimethylamino)azobenzene	ug/L	<8		<8					
Parathion	ug/L	<.4		<.4					
Pentachlorobenzene	ug/L	<8		<8					
Pentachloronitrobenzene (pcnb)	ug/L	<8		<8					
Pentachlorophenol	ug/L	<8		<8					
Phenacetin	ug/L	<8		<8					
Phenanthrene	ug/L	<8		<8					
Phenol	ug/L	<8		<8					
Phorate	ug/L	<.4		<.4					
Pronamide	ug/L	<8		<8					
Propionitrile	ug/L	<10		<10					
Pyrene	ug/L	<8		<8					
Safrole	ug/L	<8		<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	209	5						
Styrene	ug/L	<1	<1	<1		<1	<1	<1	<1
Sulfide, total	mg/L	<.1		<.1					
Tetrachloroethene	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		<.4					
Tin, total	ug/L	<20		<20					
Toluene	ug/L	<1	<1	<1		<1	<1	<1	<1
Toxaphene	ug/L	<.2		<.2					
Trans-1,2-dichloroethene	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
Trichloroethene	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	<8.0	25.0

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

Table 9

Analytical Data Summary for MW-105B

Constituents	1/12/2018	4/12/2018	10/16/2018	4/18/2019	10/15/2019	1/9/2020	4/6/2020	10/15/2020	4/12/2021
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
Mercury, total								<5	
Methacrylonitrile								<1	
Methapyriline								<8	
Methoxychlor								<.05	
Methyl iodide		<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
Naphthalene								<8	
Nickel, total		<4.0	<4.0	<4.0	<4.0		<4.0	<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	
P-(dimethylamino)azobenzene								<8	
Parathion								<4	
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
Silver, total		<4	<4	<4	<4		<4	<4	<4
Solids, total suspended									
Styrene		<1	<1	<1	<1		<1	<1	<1
Sulfide, total								<1	
Tetrachloroethene		<1	<1	<1	<1		<1	<1	<1
Thallium, total		<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
Toxaphene								<2	
Trans-1,2-dichloroethene		<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
Trichloroethene		<1	<1	<1	<1		<1	<1	<1
Trichlorofluoromethane		<1	<1	<1	<1		<1	<1	<1
Vanadium, total		<20	<20	<20	<20		<20	<20	<20
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	<8.0	<20.0	20.4	<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-105B

Constituents	10/6/2021	4/14/2022	10/25/2022	4/19/2023	10/23/2023	4/9/2024	10/13/2025
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	<1	<1	<1	<1	<1	<2
Methyl methacrylate							<1
Methyl methanesulfonate							<8
Methyl parathion							<.4
Methylene chloride	<5	<5	<5	<5	<5	<5	<5
Naphthalene							<8
Nickel, total	<4.0	<4.0	<4.0	<4.0	5.4	<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
P-(dimethylamino)azobenzene							<8
Parathion							<.4
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
Tetrachloroethene	<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							<5
Toluene	<1	<1	<1	<1	<1	<1	<1
Toxaphene							<.2
Trans-1,2-dichloroethene	<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
Trichloroethene	<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	6.9

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

Table 9

Analytical Data Summary for MW-108A

Constituents	Units	10/15/2014	4/13/2015	9/22/2015	9/24/2015	4/11/2016	10/12/2016	4/13/2017	10/25/2017
(3,4)-methylphenol	ug/L	<8				<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-dichloroethene	ug/L	<1	<1	<1		<1	<1	<1	<1
1,1-dichloropropene	ug/L	<1		<1					
1,2,3-trichloropropane	ug/L	<1	<1	<1		<1	<1	<1	<1
1,2,4,5-tetrachlorobenzene	ug/L	<8			<8				
1,2,4-trichlorobenzene	ug/L	<1		<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				<8			
1,3,5-trinitrobenzene	ug/L	<8				<8			
1,3-dichlorobenzene	ug/L	<1		<1					
1,3-dichloropropane	ug/L	<1		<1					
1,3-dinitrobenzene	ug/L	<8			<8				
1,4-dichlorobenzene	ug/L	<1	<1	<1		<1	<1	<1	<1
1,4-naphthoquinone	ug/L	<8				<8			
1,4-phenylenediamine	ug/L	<8				<8			
1-naphthylamine	ug/L	<8				<8			
2,2-dichloropropane	ug/L	<1		<1					
2,3,4,6-tetrachlorophenol	ug/L	<8				<8			
2,4,5-t	ug/L	<.5				<.5			
2,4,5-tp (silvex)	ug/L	<.5				<.5			
2,4,5-trichlorophenol	ug/L	<8				<8			
2,4,6-trichlorophenol	ug/L	<8				<8			
2,4-d	ug/L	<2				<2			
2,4-dichlorophenol	ug/L	<8				<8			
2,4-dimethylphenol	ug/L	<8				<8			
2,4-dinitrophenol	ug/L	<8				<8			
2,4-dinitrotoluene	ug/L	<8				<8			
2,6-dichlorophenol	ug/L	<8				<8			
2,6-dinitrotoluene	ug/L	<8				<8			
2-acetylaminofluorene	ug/L	<8				<8			
2-butanone (mek)	ug/L	<5	<5	<5		<5	<5	<5	<5
2-chloronaphthalene	ug/L	<8				<8			
2-chlorophenol	ug/L	<8				<8			
2-hexanone (mbk)	ug/L	<5	<5	<5		<5	<5	<5	<5
2-methylnaphthalene	ug/L	<8				<8			
2-methylphenol	ug/L	<8				<8			
2-naphthylamine	ug/L	<8				<8			
2-nitroaniline	ug/L	<8				<8			
2-nitrophenol	ug/L	<8				<8			
3,3'-dichlorobenzidine	ug/L	<8				<8			
3,3-dimethylbenzidine	ug/L	<8				<8			
3-methylcholanthrene	ug/L	<8				<8			
3-nitroaniline	ug/L	<8				<8			
4,4'-ddd	ug/L	<.05				<.05			
4,4'-dde	ug/L	<.05				<.05			
4,4'-ddt	ug/L	<.05				<.05			
4,6-dinitro-2-methylphenol	ug/L	<8				<8			
4-aminobiphenyl	ug/L	<8				<8			
4-bromophenyl phenyl ether	ug/L	<8				<8			
4-chloro-3-methylphenol	ug/L	<8				<8			
4-chloroaniline	ug/L	<8				<8			
4-chlorophenyl phenyl ether	ug/L	<8				<8			
4-methyl-2-pentanone (mibk)	ug/L	<5	<5	<5		<5	<5	<5	<5
4-nitroaniline	ug/L	<8				<8			
4-nitrophenol	ug/L	<8				<8			
5-nitro-o-toluidine	ug/L	<8				<8			
7,12-dimethylbenz [a] anthracene	ug/L	<8				<8			
Acenaphthene	ug/L	<8				<8			
Acenaphthylene	ug/L	<8				<8			
Acetone	ug/L	<10.0	153.0	<10.0		<10.0	<10.0	75.5	83.8
Acetonitrile	ug/L	<10		<10					
Acetophenone	ug/L	<8			<8				
Acrolein	ug/L	<10		<10					
Acrylonitrile	ug/L	<5	<5	<5		<5	<5	<5	<5
Aldrin	ug/L	<.05			<.05				
Allyl chloride	ug/L	<1		<1					
Alpha-bhc	ug/L	<.05			<.05				
Anthracene	ug/L	<8			<8				

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

Table 9

Analytical Data Summary for MW-108A

Constituents	1/12/2018	4/12/2018	10/16/2018	4/18/2019	10/15/2019	4/6/2020	10/15/2020	4/12/2021	10/6/2021
(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-dichloroethene		<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	<1	<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		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
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-108A

Constituents	4/14/2022	10/25/2022	4/19/2023	10/23/2023	4/9/2024	10/13/2025
(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-dichloroethene	<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	<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
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	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
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-108A

Constituents	Units	10/15/2014	4/13/2015	9/22/2015	9/24/2015	4/11/2016	10/12/2016	4/13/2017	10/25/2017
Antimony, total	ug/L	<2	<2	<2		<2	<2	<2	<2
Arochlor 1016	ug/L	<.1			<.1				
Arochlor 1221	ug/L	<.2			<.2				
Arochlor 1232	ug/L	<.2			<.2				
Arochlor 1242	ug/L	<.2			<.2				
Arochlor 1248	ug/L	<.2			<.2				
Arochlor 1254	ug/L	<.1			<.1				
Arochlor 1260	ug/L	<.1			<.1				
Arsenic, total	ug/L	24.4	16.8	20.1		18.6	27.9	17.1	7.9
Azobenzene	ug/L	<8			<8				
Barium, total	ug/L	93.5	78.5	292.0		67.1	140.0	141.0	55.9
Benzene	ug/L	<1.0	1.2	1.6		<1.0	<1.0	<1.0	1.0
Benzo(a)anthracene	ug/L	<8			<8				
Benzo(a)pyrene	ug/L	<8			<8				
Benzo(b)fluoranthene	ug/L	<8			<8				
Benzo(g,h,i)perylene	ug/L	<8			<8				
Benzo(k)fluoranthene	ug/L	<8			<8				
Benzyl alcohol	ug/L	<8			<8				
Beryllium, total	ug/L	<4.0	<4.0	<4.0		<4.0	<4.0	<4.0	<4.0
Beta-bhc	ug/L	<.05			<.05				
Bis (2-chloroethoxy) methane	ug/L	<8			<8				
Bis(2-chloroethyl) ether	ug/L	<8			<8				
Bis(2-ethylhexyl) phthalate	ug/L	<8			<8				
Bis[2-chloroisopropyl]ether	ug/L	<8			<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			<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			<.1				
Chlorobenzene	ug/L	<1	<1	<1		<1	<1	<1	<1
Chlorobenzilate	ug/L	<8			<8				
Chloroethane	ug/L	<1.0	1.4	2.0		<1.0	<1.0	<1.0	<1.0
Chloroform	ug/L	<1	<1	<1		<1	<1	<1	<1
Chloromethane	ug/L	<1	<1	<1		<1	<1	<1	<1
Chloroprene	ug/L	<1		<1					
Chromium, total	ug/L	<8	<8	<8		<8	<8	<8	<8
Chrysene	ug/L	<8			<8				
Cis-1,2-dichloroethene	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	3.9	17.5	5.3		5.2	2.9	<.8	149.0
Copper, total	ug/L	<4.0	4.0	<4.0		<4.0	<4.0	<4.0	<4.0
Cyanide, total	mg/L	<.005			<.005				
Delta-bhc	ug/L	<.05			<.05				
Diallate	ug/L	<8			<8				
Dibenzo(a,h)anthracene	ug/L	<8			<8				
Dibenzofuran	ug/L	<8			<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		<1					
Dieldrin	ug/L	<.05			<.05				
Diethyl phthalate	ug/L	<8			<8				
Dimethoate	ug/L	<.4			<.4				
Dimethylphthalate	ug/L	<8			<8				
Di-n-butyl phthalate	ug/L	<8			<8				
Di-n-octyl phthalate	ug/L	<8			<8				
Dinoseb	ug/L	<.5			<.5				
Diphenylamine	ug/L	<8			<8				
Disulfoton	ug/L	<.4			<.4				
Endosulfan i	ug/L	<.05			<.05				
Endosulfan ii	ug/L	<.05			<.05				
Endosulfan sulfate	ug/L	<.05			<.05				
Endrin	ug/L	<.05			<.05				
Endrin aldehyde	ug/L	<.05			<.05				
Ethyl methacrylate	ug/L	<10		<10					
Ethyl methanesulfonate	ug/L	<8			<8				
Ethylbenzene	ug/L	<1	<1	<1		<1	<1	<1	<1
Famphur	ug/L	<.4			<.4				
Fluoranthene	ug/L	<8			<8				
Fluorene	ug/L	<8			<8				
Gamma-bhc (lindane)	ug/L	<.05			<.05				
Heptachlor	ug/L	<.05			<.05				
Heptachlor epoxide	ug/L	<.05			<.05				
Hexachlorobenzene	ug/L	<.05			<.05				

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

Table 9

Analytical Data Summary for MW-108A

Constituents	1/12/2018	4/12/2018	10/16/2018	4/18/2019	10/15/2019	4/6/2020	10/15/2020	4/12/2021	10/6/2021
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		10.7	17.5	16.5	11.6	6.4	21.5	<4.0	4.1
Azobenzene							<8		
Barium, total		93.4	96.9	297.0	605.0	128.0	68.9	26.0	53.2
Benzene	1.2	<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	<4.0
Beta-bhc							<.05		
Bis (2-chloroethoxy) methane							<8		
Bis(2-chloroethyl) ether							<8		
Bis(2-ethylhexyl) phthalate							10		
Bis[2-chloroisopropyl]ether							<8		
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	2.0
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		<1.0	<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	<8	<8	<8	<8	<8	<8	<8
Chrysene							<8		
Cis-1,2-dichloroethene		<1	<1	<1	<1	<1	<1	<1	<1
Cis-1,3-dichloropropene		<1	<1	<1	<1	<1	<1	<1	<1
Cobalt, total	<.8	1.1	<.8	<.8	<.8	<.4	<.4	9.1	173.0
Copper, total		<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	4.9
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-108A

Constituents	4/14/2022	10/25/2022	4/19/2023	10/23/2023	4/9/2024	10/13/2025
Antimony, total	<2	<2	<2	<2	<2	1
Arochlor 1016						
Arochlor 1221						
Arochlor 1232						
Arochlor 1242						
Arochlor 1248						
Arochlor 1254						
Arochlor 1260						
Arsenic, total	9.0	12.4	<4.0	14.1	9.4	14.4
Azobenzene						
Barium, total	19.6	46.7	17.7	39.9	26.9	47.6
Benzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
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-ethylhexyl) phthalate						
Bis[2-chloroisopropyl]ether						
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	3.4	<.8	<.8	1.5	<.8	3.4
Carbon disulfide	<1	<1	<1	<1	<1	<1
Carbon tetrachloride	<1	<1	<1	<1	<1	<1
Chlordane						
Chlorobenzene	<1	<1	<1	<1	<1	<1
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-dichloroethene	<1	<1	<1	<1	<1	<1
Cis-1,3-dichloropropene	<1	<1	<1	<1	<1	<1
Cobalt, total	56.6	1.9	8.4	586.0	27.6	134.0
Copper, total	5.5	<4.0	<4.0	<4.0	6.3	<5.0
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-108A

Constituents	Units	10/15/2014	4/13/2015	9/22/2015	9/24/2015	4/11/2016	10/12/2016	4/13/2017	10/25/2017
Hexachlorobutadiene	ug/L	<8			<8				
Hexachlorocyclopentadiene	ug/L	<8			<8				
Hexachloroethane	ug/L	<8			<8				
Hexachloropropene	ug/L	<8			<8				
Indeno(1,2,3-cd)pyrene	ug/L	<8			<8				
Isobutanol	ug/L	<1000			<1000				
Isodrin	ug/L	<8			<8				
Isophorone	ug/L	<8			<8				
Isosafrole	ug/L	<8			<8				
Kepone	ug/L	<8			<8				
Lead, total	ug/L	<4	<4	<4		<4	<4	<4	<4
Mercury, total	ug/L	<.5		<.5					
Methacrylonitrile	ug/L	<1		<1					
Methapyrilene	ug/L	<8			<8				
Methoxychlor	ug/L	<.05			<.05				
Methyl iodide	ug/L	<1	<1	<1		<1	<1	<1	<1
Methyl methacrylate	ug/L	<1		<1					
Methyl methanesulfonate	ug/L	<8			<8				
Methyl parathion	ug/L	.5	<.1		<.4	<.1	<.1		
Methylene chloride	ug/L	<5	<5	<5		<5	<5	<5	<5
Naphthalene	ug/L	<8			<8				
Nickel, total	ug/L	6.5	10.6	8.7		<4.0	5.2	<4.0	39.7
Nitrobenzene	ug/L	<8			<8				
N-nitrosodiethylamine	ug/L	<8			<8				
N-nitrosodimethylamine	ug/L	<8			<8				
N-nitrosodi-n-butylamine	ug/L	<8			<8				
N-nitroso-di-n-propylamine	ug/L	<8			<8				
N-nitrosodiphenylamine	ug/L	<8			<8				
N-nitrosomethylethylamine	ug/L	<8			<8				
N-nitrosopiperidine	ug/L	<8			<8				
N-nitrosopyrrolidine	ug/L	<8			<8				
O,o,o-triethyl phosphorothioate	ug/L	<.4			<.4				
O-toluidine	ug/L	<8			<8				
P-(dimethylamino)azobenzene	ug/L	<8			<8				
Parathion	ug/L	<.4			.9				
Pentachlorobenzene	ug/L	<8			<8				
Pentachloronitrobenzene (pcnb)	ug/L	<8			<8				
Pentachlorophenol	ug/L	<8			<8				
Phenacetin	ug/L	<8			<8				
Phenanthrene	ug/L	<8			<8				
Phenol	ug/L	<8			<8				
Phorate	ug/L	<.4			<.4				
Pronamide	ug/L	<8			<8				
Propionitrile	ug/L	<10		<10					
Pyrene	ug/L	<8			<8				
Safrole	ug/L	<8			<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	72	186						
Styrene	ug/L	<1	<1	<1		<1	<1	<1	<1
Sulfide, total	mg/L	<.1			<.2				
Tetrachloroethene	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			<.4				
Tin, total	ug/L	<20		<20					
Toluene	ug/L	<1	<1	<1		<1	<1	<1	<1
Toxaphene	ug/L	<.2			<.2				
Trans-1,2-dichloroethene	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
Trichloroethene	ug/L	<1	<1	<1		<1	<1	<1	<1
Trichlorofluoromethane	ug/L	<1	<1	<1		<1	<1	<1	<1
Vanadium, total	ug/L	<20.0	<20.0	<20.0		<20.0	<20.0	<20.0	<20.0
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	<8.0	9.0

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

Table 9

Analytical Data Summary for MW-108A

Constituents	1/12/2018	4/12/2018	10/16/2018	4/18/2019	10/15/2019	4/6/2020	10/15/2020	4/12/2021	10/6/2021
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	<2	<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	<4.0	<4.0	<4.0	7.6	46.9
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		
P-(dimethylamino)azobenzene							<8		
Parathion							<.4		
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		
Tetrachloroethene		<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-dichloroethene		<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
Trichloroethene		<1	<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane		<1	<1	<1	<1	<1	<1	<1	<1
Vanadium, total		<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
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	<8.0	<20.0	<20.0	<20.0	<20.0	61.4

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

Table 9

Analytical Data Summary for MW-108A

Constituents	4/14/2022	10/25/2022	4/19/2023	10/23/2023	4/9/2024	10/13/2025
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	77.7	<4.0	34.6	292.0	55.6	28.5
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						
P-(dimethylamino)azobenzene						
Parathion						
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						
Tetrachloroethene	<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-dichloroethene	<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
Trichloroethene	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	<1	<1	<1	<1	<1	<1
Vanadium, total	<20.0	<20.0	<20.0	<20.0	<20.0	4.5
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	35.7	<20.0	<20.0	28.1	21.1	16.4

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

Table 9

Analytical Data Summary for MW-110A

Constituents	Units	10/15/2014	4/13/2015	9/22/2015	4/11/2016	10/12/2016	4/13/2017	10/25/2017	4/12/2018
(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	<1.0	<1.0	<1.0	<1.0	1.1	<1.0	1.3	<1.0
1,1-dichloroethene	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	10.8	7.3	12.6	13.6	12.7	11.0	11.6	12.1
1,4-naphthoquinone	ug/L								
1,4-phenylenediamine	ug/L								
1-naphthylamine	ug/L								
2,2-dichloropropane	ug/L								
2,3,4,6-tetrachlorophenol	ug/L								
2,4,5-t	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	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	11.2	<10.0
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-110A

Constituents	10/16/2018	4/18/2019	10/15/2019	4/6/2020	10/15/2020	4/12/2021	10/6/2021	4/14/2022	10/25/2022
(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	<1.0	<1.0	1.4	1.2	1.5	1.6	1.6	<1.0	2.0
1,1-dichloroethene	<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	<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	12.1	9.7	<1.0	<1.0	11.9	6.8	5.4	4.7	5.2
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	<10	<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	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
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-110A

Constituents	4/19/2023	10/23/2023	4/9/2024	10/13/2025
(3,4)-methylphenol			<8	
1,1,1,2-tetrachloroethane	<1	<1	<1	<1
1,1,1-trichloroethane	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	<1	<1	<1	<1
1,1,2-trichloroethane	<1	<1	<1	<1
1,1-dichloroethane	1.3	<1.0	1.1	<1.0
1,1-dichloroethene	<1	<1	<1	<1
1,1-dichloropropene			<1	
1,2,3-trichloropropane	<1	<1	<1	<1
1,2,4,5-tetrachlorobenzene			<8	
1,2,4-trichlorobenzene			<1	
1,2-dibromo-3-chloropropane	<5	<5	<1	<5
1,2-dibromoethane	<1	<1	<1	<1
1,2-dichlorobenzene	<1	<1	<1	<1
1,2-dichloroethane	<1	<1	<1	<1
1,2-dichloropropane	<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	5.4	3.4	3.6	4.1
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
2-chloronaphthalene			<8	
2-chlorophenol			<8	
2-hexanone (mbk)	<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
4-nitroaniline			<8	
4-nitrophenol			<8	
5-nitro-o-toluidine			<8	
7,12-dimethylbenz [a] anthracene			<8	
Acenaphthene			<8	
Acenaphthylene			<8	
Acetone	<10.0	<10.0	<10.0	<10.0
Acetonitrile			<10	
Acetophenone			<8	
Acrolein			<10	
Acrylonitrile	<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-110A

Constituents	Units	10/15/2014	4/13/2015	9/22/2015	4/11/2016	10/12/2016	4/13/2017	10/25/2017	4/12/2018
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	35.5	29.9	33.8	24.4	44.8	33.3	37.6	36.3
Azobenzene	ug/L								
Barium, total	ug/L	1780	1000	829	639	748	890	784	733
Benzene	ug/L	4.7	3.8	5.8	<1.0	5.4	3.5	4.3	5.1
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-ethylhexyl) phthalate	ug/L								
Bis[2-chloroisopropyl]ether	ug/L								
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	7.7	5.6	9.8	<1.0	6.8	3.7	5.1	5.7
Chlorobenzilate	ug/L								
Chloroethane	ug/L	3.1	2.2	2.5	<1.0	3.1	2.5	3.0	<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	<8	<8	<8	<8	<8	<8	<8
Chrysene	ug/L								
Cis-1,2-dichloroethene	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	5.4	10.3	1.3	13.3	12.5	10.8	7.7	18.5
Copper, total	ug/L	<4.0	<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								
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	<1.0	<1.0	1.1	<1.0	<1.0	1.0	<1.0	<1.0
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-110A

Constituents	10/16/2018	4/18/2019	10/15/2019	4/6/2020	10/15/2020	4/12/2021	10/6/2021	4/14/2022	10/25/2022
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	50.2	21.8	54.2	44.7	53.1	43.8	42.2	19.5	67.1
Azobenzene		<8							
Barium, total	650	551	803	816	701	713	714	520	675
Benzene	1.6	2.6	5.2	4.0	4.4	4.0	3.4	3.5	3.8
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-ethylhexyl) phthalate		<6							
Bis[2-chloroisopropyl]ether		<8							
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	3.6	5.4	6.1	5.9	7.6	7.9	8.6	6.3	8.7
Chlorobenzilate		<8							
Chloroethane	1.8	2.2	2.4	2.1	2.8	2.1	1.5	1.5	3.3
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-dichloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cis-1,3-dichloropropene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cobalt, total	19.8	23.7	4.3	39.3	4.8	11.2	12.3	191.0	6.5
Copper, total	5.6	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	6.6
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	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
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-110A

Constituents	4/19/2023	10/23/2023	4/9/2024	10/13/2025
Antimony, total	<2	<2	<2	<1
Arochlor 1016			<.2	
Arochlor 1221			<.2	
Arochlor 1232			<.2	
Arochlor 1242			<.2	
Arochlor 1248			<.2	
Arochlor 1254			<.2	
Arochlor 1260			<.2	
Arsenic, total	18.7	57.6	7.0	172.0
Azobenzene			<8	
Barium, total	537	842	199	817
Benzene	2.3	2.6	3.4	1.6
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	<.5
Beta-bhc			<.05	
Bis (2-chloroethoxy) methane			<8	
Bis(2-chloroethyl) ether			<8	
Bis(2-ethylhexyl) phthalate			<6	
Bis[2-chloroisopropyl]ether			<8	
Bromochloromethane	<1	<1	<1	<1
Bromodichloromethane	<1	<1	<1	<1
Bromoform	<1	<1	<1	<1
Bromomethane	<1	<1	<1	<1
Butyl benzyl phthalate			<8	
Cadmium, total	<.8	<.8	<.8	.6
Carbon disulfide	<1	<1	<1	<1
Carbon tetrachloride	<1	<1	<1	<1
Chlordane			<.1	
Chlorobenzene	5.1	6.5	7.6	4.0
Chlorobenzilate			<8	
Chloroethane	1.8	1.8	1.4	3.8
Chloroform	<1	<1	<1	<1
Chloromethane	<1	<1	<1	<1
Chloroprene			<1	
Chromium, total	<8	<8	<8	1
Chrysene			<8	
Cis-1,2-dichloroethene	<1	<1	<1	<1
Cis-1,3-dichloropropene	<1	<1	<1	<1
Cobalt, total	91.4	18.0	1460.0	30.3
Copper, total	<4.0	<4.0	4.2	<5.0
Cyanide, total			<.005	
Delta-bhc			<.05	
Diallate			<8	
Dibenzo(a,h)anthracene			<8	
Dibenzofuran			<8	
Dibromochloromethane	<1	<1	<1	<1
Dibromomethane	<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	<1.0	<1.0	<1.0	<1.0
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-110A

Constituents	Units	10/15/2014	4/13/2015	9/22/2015	4/11/2016	10/12/2016	4/13/2017	10/25/2017	4/12/2018
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	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
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	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
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								
P-(dimethylamino)azobenzene	ug/L								
Parathion	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	135	157						
Styrene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1
Sulfide, total	mg/L								
Tetrachloroethene	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-dichloroethene	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
Trichloroethene	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	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
Vinyl acetate	ug/L	<5	<5	<5	<5	<5	<5	<5	<5
Vinyl chloride	ug/L	1.5	1.1	1.3	<1.0	1.3	1.2	1.0	<1.0
Xylenes, total	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	2.5	<2.0	<2.0
Zinc, total	ug/L	<20.0	10.3	<8.0	<8.0	11.2	<8.0	<8.0	<20.0

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

Table 9

Analytical Data Summary for MW-110A

Constituents	10/16/2018	4/18/2019	10/15/2019	4/6/2020	10/15/2020	4/12/2021	10/6/2021	4/14/2022	10/25/2022
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							
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	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	55.9	<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							
P-(dimethylamino)azobenzene		<8							
Parathion		<.4							
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							
Tetrachloroethene	<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-dichloroethene	<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
Trichloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vanadium, total	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
Vinyl acetate	<5	<5	<5	<5	<5	<5	<5	<5	<5
Vinyl chloride	<1.0	<1.0	2.0	1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Xylenes, total	<2.0	<2.0	6.6	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Zinc, total	<20.0	<8.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0

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

Table 9

Analytical Data Summary for MW-110A

Constituents	4/19/2023	10/23/2023	4/9/2024	10/13/2025
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	<4.0	<4.0	<4.0	1.5
Mercury, total			<.5	
Methacrylonitrile			<1	
Methapyrilene			<8	
Methoxychlor			<.05	
Methyl iodide	<1	<1	<2	<1
Methyl methacrylate			<1	
Methyl methanesulfonate			<8	
Methyl parathion			<.4	
Methylene chloride	<5	<5	<5	<5
Naphthalene			<8	
Nickel, total	21.2	9.0	456.0	6.9
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	
P-(dimethylamino)azobenzene			<8	
Parathion			<.4	
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	<2
Silver, total	<4	<4	<4	<5
Solids, total suspended				
Styrene	<1	<1	<1	<1
Sulfide, total			<.3	
Tetrachloroethene	<1	<1	<1	<1
Thallium, total	<2.0	<2.0	<2.0	<.5
Thionazin			<.4	
Tin, total			<20	
Toluene	<1	<1	<1	<1
Toxaphene			<.2	
Trans-1,2-dichloroethene	<1	<1	<1	<1
Trans-1,3-dichloropropene	<1	<1	<1	<1
Trans-1,4-dichloro-2-butene	<5	<5	<5	<5
Trichloroethene	<1	<1	<1	<1
Trichlorofluoromethane	<1	<1	<1	<1
Vanadium, total	<20.0	<20.0	<20.0	2.4
Vinyl acetate	<5	<5	<5	<5
Vinyl chloride	<1.0	<1.0	<1.0	<1.0
Xylenes, total	<2.0	<2.0	<2.0	<2.0
Zinc, total	<20.0	31.5	21.4	19.8

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

Table 9

Analytical Data Summary for MW-2A

Constituents	Units	10/15/2014	1/12/2015	4/13/2015	7/21/2015	9/22/2015	4/11/2016	10/12/2016	4/13/2017
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
1,1,2,2-tetrachloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-trichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethene	ug/L	<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	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Arsenic, total	ug/L	<4	<4	<4	<4	<4	<4	<4	<4
Barium, total	ug/L	57.8	45.6	43.3	50.0	47.3	32.5	54.8	45.7
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	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0
Cis-1,2-dichloroethene	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	<.8	.9	<.8	<.8	<.8	<.8	<.8	<.8
Copper, total	ug/L	<4.0	<4.0	<4.0	<4.0	<4.0	27.3	<4.0	<4.0
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	<4.0	4.7	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
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	88		5					
Styrene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	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-dichloroethene	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
Trichloroethene	ug/L	<1	<1	<1	3	<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	21.0	10.0	<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-2A

Constituents	10/25/2017	4/12/2018	10/16/2018	4/18/2019	10/15/2019	4/6/2020	10/15/2020	4/12/2021	10/6/2021
1,1,1,2-tetrachloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-trichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-trichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,3-trichloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<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
1,4-dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-butanone (mek)	<5	<5	<5	<5	<5	<5	<5	<5	<5
2-hexanone (mbk)	<5	<5	<5	<5	<5	<5	<5	<5	<5
4-methyl-2-pentanone (mibk)	<5	<5	<5	<5	<5	<5	<5	<5	<5
Acetone	13	<10	<10	<10	<10	<10	<10	<10	<10
Acrylonitrile	<5	<5	<5	<5	<5	<5	<5	<5	<5
Antimony, total	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Arsenic, total	<4	<4	<4	<4	<4	<4	<4	<4	<4
Barium, total	58.0	45.6	46.1	56.8	59.2	55.7	56.5	53.3	59.0
Benzene	<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
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
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
Chlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1
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
Chromium, total	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0
Cis-1,2-dichloroethene	<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	<.8	<.8	<.8
Copper, total	<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
Dibromomethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Lead, total	<4	<4	<4	<4	<4	<4	<4	<4	<4
Methyl iodide	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene chloride	<5	<5	<5	<5	<5	<5	<5	<5	<5
Nickel, total	7.1	<4.0	<4.0	<4.0	5.3	<4.0	<4.0	<4.0	4.8
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
Tetrachloroethene	<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
Toluene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,2-dichloroethene	<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
Trichloroethene	<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	<20.0	<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-2A

Constituents	4/14/2022	10/25/2022	4/19/2023	10/23/2023	4/9/2024	10/13/2025
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-dichloroethene	<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	<2.0	<2.0	<2.0	<2.0	<2.0	1.1
Arsenic, total	<4	<4	<4	<4	<4	<2
Barium, total	58.7	64.8	61.1	56.6	58.4	69.0
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	<8.0	<8.0	<8.0	<8.0	<8.0	1.3
Cis-1,2-dichloroethene	<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	<4.0	<4.0	12.6	<4.0	<4.0	<5.0
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	<4.0	<4.0	<4.0	<4.0	<4.0	<5.0
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
Tetrachloroethene	<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-dichloroethene	<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
Trichloroethene	<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	15.6

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

Table 9

Analytical Data Summary for MW-3

Constituents	Units	10/15/2014	1/12/2015	4/13/2015	9/22/2015	4/11/2016	10/12/2016	4/13/2017	10/25/2017
1,1,1,2-tetrachloroethane	ug/L	<1		<1	<1	<1	<1	<1	<1
1,1,1-trichloroethane	ug/L	<1		<1	<1	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	ug/L	<1		<1	<1	<1	<1	<1	<1
1,1,2-trichloroethane	ug/L	<1		<1	<1	<1	<1	<1	<1
1,1-dichloroethane	ug/L	<1		<1	<1	<1	<1	<1	<1
1,1-dichloroethene	ug/L	<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	<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
1,4-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	31.5		22.0	25.2	41.6	36.8	58.8	36.7
Benzene	ug/L	<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
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	<8.0		<8.0	<8.0	<8.0	<8.0	<8.0	<8.0
Cis-1,2-dichloroethene	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	<.8		<.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	18.7	4.9	<4.0	<4.0	<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	345		8					
Styrene	ug/L	<1		<1	<1	<1	<1	<1	<1
Tetrachloroethene	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
Toluene	ug/L	<1		<1	<1	<1	<1	<1	<1
Trans-1,2-dichloroethene	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
Trichloroethene	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	<8.0	<8.0

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

Table 9

Analytical Data Summary for MW-3

Constituents	4/12/2018	10/16/2018	4/18/2019	10/15/2019	4/6/2020	10/15/2020	4/12/2021	10/6/2021	4/14/2022
1,1,1,2-tetrachloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-trichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-trichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,3-trichloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<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
1,4-dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-butanone (mek)	<5	<5	<5	<5	<5	<5	<5	<5	<10
2-hexanone (mbk)	<5	<5	<5	<5	<5	<5	<5	<5	<5
4-methyl-2-pentanone (mibk)	<5	<5	<5	<5	<5	<5	<5	<5	<5
Acetone	<10	<10	<10	<10	<10	<10	<10	<10	<10
Acrylonitrile	<5	<5	<5	<5	<5	<5	<5	<5	<5
Antimony, total	<2	<2	<2	<2	<2	<2	<2	<2	<2
Arsenic, total	<4	<4	<4	<4	<4	<4	<4	<4	<4
Barium, total	50.8	49.7	89.1	57.4	62.2	58.2	43.5	28.9	56.1
Benzene	<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
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
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
Chlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1
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
Chromium, total	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0
Cis-1,2-dichloroethene	<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	<.4	<.4	<.4	<.4	.4
Copper, total	<4	<4	<4	<4	<4	<4	<4	<4	<4
Dibromochloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromomethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Lead, total	<4	<4	<4	<4	<4	<4	<4	<4	<4
Methyl iodide	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene chloride	<5	<5	<5	<5	<5	<5	<5	<5	<5
Nickel, total	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
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
Tetrachloroethene	<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
Toluene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,2-dichloroethene	<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
Trichloroethene	<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	<20.0	<20.0	13.3	<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-3

Constituents	10/25/2022	1/9/2023	4/19/2023	10/23/2023	4/9/2024	10/13/2025
1,1,1,2-tetrachloroethane	<1		<1	<1	<1	<1
1,1,1-trichloroethane	<1		<1	<1	<1	<1
1,1,2,2-tetrachloroethane	<1		<1	<1	<1	<1
1,1,2-trichloroethane	<1		<1	<1	<1	<1
1,1-dichloroethane	<1		<1	<1	<1	<1
1,1-dichloroethene	<1		<1	<1	<1	<1
1,2,3-trichloropropane	<1		<1	<1	<1	<1
1,2-dibromo-3-chloropropane	<5		<5	<5	<5	<5
1,2-dibromoethane	<1		<1	<1	<1	<1
1,2-dichlorobenzene	<1		<1	<1	<1	<1
1,2-dichloroethane	<1		<1	<1	<1	<1
1,2-dichloropropane	<1		<1	<1	<1	<1
1,4-dichlorobenzene	<1		<1	<1	<1	<1
2-butanone (mek)	<10		<10	<10	<10	<10
2-hexanone (mbk)	<5		<5	<5	<5	<5
4-methyl-2-pentanone (mibk)	<5		<5	<5	<5	<5
Acetone	<10		<10	<10	<10	<10
Acrylonitrile	<5		<5	<5	<5	<5
Antimony, total	<2		<2	<2	<2	<1
Arsenic, total	<4		<4	<4	<4	<2
Barium, total	33.0		50.3	28.4	47.1	60.5
Benzene	<1		<1	<1	<1	<1
Beryllium, total	<4.0		<4.0	<4.0	<4.0	<5
Bromochloromethane	<1		<1	<1	<1	<1
Bromodichloromethane	<1		<1	<1	<1	<1
Bromoform	<1		<1	<1	<1	<1
Bromomethane	<1		<1	<1	<1	<1
Cadmium, total	<.8		<.8	<.8	<.8	.5
Carbon disulfide	<1		<1	<1	<1	<1
Carbon tetrachloride	<1		<1	<1	<1	<1
Chlorobenzene	<1		<1	<1	<1	<1
Chloroethane	<1		<1	<1	<1	<1
Chloroform	<1		<1	<1	<1	<1
Chloromethane	<1		<1	<1	<1	<1
Chromium, total	<8.0		<8.0	<8.0	<8.0	1.1
Cis-1,2-dichloroethene	<1		<1	<1	<1	<1
Cis-1,3-dichloropropene	<1		<1	<1	<1	<1
Cobalt, total	1.6	<2.0	<.4	<.4	<.4	<.5
Copper, total	<4		<4	<4	<4	<5
Dibromochloromethane	<1		<1	<1	<1	<1
Dibromomethane	<1		<1	<1	<1	<1
Ethylbenzene	<1		<1	<1	<1	<1
Lead, total	<4		<4	<4	<4	<1
Methyl iodide	<1		<1	<1	<1	<1
Methylene chloride	<5		<5	<5	<5	<5
Nickel, total	<4.0		<4.0	<4.0	<4.0	<5.0
Selenium, total	<4		<4	<4	<4	<2
Silver, total	<4		<4	<4	<4	<5
Solids, total suspended						
Styrene	<1		<1	<1	<1	<1
Tetrachloroethene	<1		<1	<1	<1	<1
Thallium, total	<2.0		<2.0	<2.0	<2.0	<.5
Toluene	<1		<1	<1	<1	<1
Trans-1,2-dichloroethene	<1		<1	<1	<1	<1
Trans-1,3-dichloropropene	<1		<1	<1	<1	<1
Trans-1,4-dichloro-2-butene	<5		<5	<5	<5	<5
Trichloroethene	<1		<1	<1	<1	<1
Trichlorofluoromethane	<1		<1	<1	<1	<1
Vanadium, total	<20		<20	<20	<20	<2
Vinyl acetate	<5		<5	<5	<5	<5
Vinyl chloride	<1		<1	<1	<1	<1
Xylenes, total	<2		<2	<2	<2	<2
Zinc, total	<20.0		<20.0	<20.0	<20.0	6.3

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

Table 9

Analytical Data Summary for MW-4

Constituents	Units	10/15/2014	1/12/2015	4/13/2015	9/22/2015	12/30/2015	4/11/2016	10/12/2016	4/13/2017
(3,4)-methylphenol	ug/L								
1,1,1,2-tetrachloroethane	ug/L	<1		<1	<1		<1	<1	<1
1,1,1-trichloroethane	ug/L	<1		<1	<1		<1	<1	<1
1,1,2,2-tetrachloroethane	ug/L	<1		<1	<1		<1	<1	<1
1,1,2-trichloroethane	ug/L	<1		<1	<1		<1	<1	<1
1,1-dichloroethane	ug/L	<1		<1	<1		<1	<1	<1
1,1-dichloroethene	ug/L	<1		<1	<1		<1	<1	<1
1,1-dichloropropene	ug/L								
1,2,3-trichloropropane	ug/L	<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
1,2-dibromoethane	ug/L	<1		<1	<1		<1	<1	<1
1,2-dichlorobenzene	ug/L	<1		<1	<1		<1	<1	<1
1,2-dichloroethane	ug/L	<1		<1	<1		<1	<1	<1
1,2-dichloropropane	ug/L	<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		<1	<1		<1	<1	<1
1,4-naphthoquinone	ug/L								
1,4-phenylenediamine	ug/L								
1-naphthylamine	ug/L								
2,2-dichloropropane	ug/L								
2,3,4,6-tetrachlorophenol	ug/L								
2,4,5-t	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
2-chloronaphthalene	ug/L								
2-chlorophenol	ug/L								
2-hexanone (mbk)	ug/L	<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
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	<10.0		<10.0	<10.0		<10.0	<10.0	<10.0
Acetonitrile	ug/L								
Acetophenone	ug/L								
Acrolein	ug/L								
Acrylonitrile	ug/L	<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-4

Constituents	10/25/2017	4/12/2018	10/16/2018	4/18/2019	10/15/2019	4/6/2020	10/15/2020	4/12/2021	7/1/2021
(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	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethene	<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	<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									
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	<5	<5
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	12.7	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
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-4

Constituents	10/6/2021	4/14/2022	7/13/2022	10/25/2022	1/9/2023	4/19/2023	10/23/2023	4/9/2024	10/13/2025
(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-dichloroethene	<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	<5		<1		<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)	<5	<10		<5		<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	<10.0	<10.0		<10.0		<10.0	<10.0	<10.0	<10.0
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-4

Constituents	Units	10/15/2014	1/12/2015	4/13/2015	9/22/2015	12/30/2015	4/11/2016	10/12/2016	4/13/2017
Antimony, total	ug/L	<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		<4	<4		<4	<4	<4
Azobenzene	ug/L								
Barium, total	ug/L	116		149	125		120	169	102
Benzene	ug/L	<1		<1	<1		<1	<1	<1
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
Beta-bhc	ug/L								
Bis (2-chloroethoxy) methane	ug/L								
Bis(2-chloroethyl) ether	ug/L								
Bis(2-ethylhexyl) phthalate	ug/L								
Bis[2-chloroisopropyl]ether	ug/L								
Bromochloromethane	ug/L	<1		<1	<1		<1	<1	<1
Bromodichloromethane	ug/L	<1		<1	<1		<1	<1	<1
Bromoform	ug/L	<1		<1	<1		<1	<1	<1
Bromomethane	ug/L	<1		<1	<1		<1	<1	<1
Butyl benzyl phthalate	ug/L								
Cadmium, total	ug/L	<.8		<.8	<.8		<.8	<.8	<.8
Carbon disulfide	ug/L	1.7		<1.0	<1.0		<1.0	<1.0	<1.0
Carbon tetrachloride	ug/L	<1		<1	<1		<1	<1	<1
Chlordane	ug/L								
Chlorobenzene	ug/L	<1		<1	<1		<1	<1	<1
Chlorobenzilate	ug/L								
Chloroethane	ug/L	<1		<1	<1		<1	<1	<1
Chloroform	ug/L	<1		<1	<1		<1	<1	<1
Chloromethane	ug/L	<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
Chrysene	ug/L								
Cis-1,2-dichloroethene	ug/L	<1		<1	<1		<1	<1	<1
Cis-1,3-dichloropropene	ug/L	<1		<1	<1		<1	<1	<1
Cobalt, total	ug/L	6.5	1.1	1.4	12.5	2.0	1.6	<.8	<.8
Copper, total	ug/L	<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
Dibromomethane	ug/L	<1		<1	<1		<1	<1	<1
Dichlorodifluoromethane	ug/L								
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
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-4

Constituents	10/25/2017	4/12/2018	10/16/2018	4/18/2019	10/15/2019	4/6/2020	10/15/2020	4/12/2021	7/1/2021
Antimony, total	<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	
Azobenzene									
Barium, total	111	117	120	107	135	103	118	132	
Benzene	<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	
Beta-bhc									
Bis (2-chloroethoxy) methane									
Bis(2-chloroethyl) ether									
Bis(2-ethylhexyl) phthalate									
Bis[2-chloroisopropyl]ether									
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									
Cadmium, total	<.8	<.8	<.8	<.8	<.8	<.8	<.8	<.8	
Carbon disulfide	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
Carbon tetrachloride	<1	<1	<1	<1	<1	<1	<1	<1	
Chlordane									
Chlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	
Chlorobenzilate									
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									
Chromium, total	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	
Chrysene									
Cis-1,2-dichloroethene	<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	<.8	<.8	<.4	<.4	1.0	<.4
Copper, total	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	
Cyanide, total									
Delta-bhc									
Diallate									
Dibenzo(a,h)anthracene									
Dibenzofuran									
Dibromochloromethane	<1	<1	<1	<1	<1	<1	<1	<1	
Dibromomethane	<1	<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	<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-4

Constituents	10/6/2021	4/14/2022	7/13/2022	10/25/2022	1/9/2023	4/19/2023	10/23/2023	4/9/2024	10/13/2025
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	105	156		103		106	105	150	144
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-ethylhexyl) phthalate				10	<6				
Bis[2-chloroisopropyl]ether				<8					
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	<1.0	<1.0		<1.0		<1.0	<1.0	<1.0	<1.0
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	1.2
Chrysene				<8					
Cis-1,2-dichloroethene	<1	<1		<1		<1	<1	<1	<1
Cis-1,3-dichloropropene	<1	<1		<1		<1	<1	<1	<1
Cobalt, total	<.4	2.1	1.8	<.4		<.4	<.4	<.4	.8
Copper, total	<4.0	<4.0		<4.0		9.2	<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
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-4

Constituents	Units	10/15/2014	1/12/2015	4/13/2015	9/22/2015	12/30/2015	4/11/2016	10/12/2016	4/13/2017
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
Mercury, total	ug/L								
Methacrylonitrile	ug/L								
Methapyrilene	ug/L								
Methoxychlor	ug/L								
Methyl iodide	ug/L	<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
Naphthalene	ug/L								
Nickel, total	ug/L	8.4		5.2	4.8		5.4	<4.0	<4.0
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								
P-(dimethylamino)azobenzene	ug/L								
Parathion	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
Silver, total	ug/L	<4		<4	<4		<4	<4	<4
Solids, total suspended	mg/L	14		2					
Styrene	ug/L	<1		<1	<1		<1	<1	<1
Sulfide, total	mg/L								
Tetrachloroethene	ug/L	<1		<1	<1		<1	<1	<1
Thallium, total	ug/L	<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
Toxaphene	ug/L								
Trans-1,2-dichloroethene	ug/L	<1		<1	<1		<1	<1	<1
Trans-1,3-dichloropropene	ug/L	<1		<1	<1		<1	<1	<1
Trans-1,4-dichloro-2-butene	ug/L	<5		<5	<5		<5	<5	<5
Trichloroethene	ug/L	<1		<1	<1		<1	<1	<1
Trichlorofluoromethane	ug/L	<1		<1	<1		<1	<1	<1
Vanadium, total	ug/L	<20.0		<20.0	<20.0		<20.0	<20.0	<20.0
Vinyl acetate	ug/L	<5		<5	<5		<5	<5	<5
Vinyl chloride	ug/L	<1		<1	<1		<1	<1	<1
Xylenes, total	ug/L	<2		<2	<2		<2	<2	<2
Zinc, total	ug/L	<20.0		<8.0	<8.0		<8.0	14.5	<8.0

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

Table 9

Analytical Data Summary for MW-4

Constituents	10/25/2017	4/12/2018	10/16/2018	4/18/2019	10/15/2019	4/6/2020	10/15/2020	4/12/2021	7/1/2021
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	<4.0	<4.0	<4.0	<4.0	<4.0	<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									
P-(dimethylamino)azobenzene									
Parathion									
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									
Tetrachloroethene	<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									
Tin, total									
Toluene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toxaphene									
Trans-1,2-dichloroethene	<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
Trichloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vanadium, total	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
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	8.1	<20.0	<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-4

Constituents	10/6/2021	4/14/2022	7/13/2022	10/25/2022	1/9/2023	4/19/2023	10/23/2023	4/9/2024	10/13/2025
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	<1		<2		<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	<4.0	<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					
P-(dimethylamino)azobenzene				<8					
Parathion				<.4					
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					
Tetrachloroethene	<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-dichloroethene	<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
Trichloroethene	<1	<1		<1		<1	<1	<1	<1
Trichlorofluoromethane	<1	<1		<1		<1	<1	<1	<1
Vanadium, total	<20.0	<20.0		<20.0		<20.0	<20.0	<20.0	2.9
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	6.0

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

Table 10 – Confidence Limit Evaluation

Table 10

KEY:

SSI

SSL LCL>GWPS

SSL UCL>GWPS

Historic SSI & SSL

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

Annual Water Quality Report
Bremer County Sanitary Landfill
Permit No. 09-SDP-01-75C

Monitoring Well	Compound	Sample Date	Each Result (ug/L)	Prediction Limit (ug/L)	95% LCL (ug/L)	95% UCL (ug/L)	GWPS Limit (ug/L)
MW-3	4/11/2016	Arsenic	<4.0	4.0	2.000	2.000	10
MW-3	10/12/2016	Arsenic	<4.0	4.0	2.000	2.000	10
MW-3	4/13/2017	Arsenic	<4.0	4.0	2.000	2.000	10
MW-3	10/25/2017	Arsenic	<4.0	4.0	2.000	2.000	10
MW-3	4/12/2018	Arsenic	<4.0	4.0	2.000	2.000	10
MW-3	10/16/2018	Arsenic	<4.0	4.0	2.000	2.000	10
MW-3	4/18/2019	Arsenic	<4.0	4.0	2.000	2.000	10
MW-3	10/15/2019	Arsenic	<4.0	4.0	2.000	2.000	10
MW-3	4/6/2020	Arsenic	<4.0	4.0	2.000	2.000	10
MW-3	10/15/2020	Arsenic	<4.0	4.0	2.000	2.000	10
MW-3	4/12/2021	Arsenic	<4.0	4.0	2.000	2.000	10
MW-3	10/6/2021	Arsenic	<4.0	4.0	2.000	2.000	10
MW-3	4/14/2022	Arsenic	<4.0	4.0	2.000	2.000	10
MW-3	10/25/2022	Arsenic	<4.0	4.0	2.000	2.000	10
MW-3	4/19/2023	Arsenic	<4.0	4.0	2.000	2.000	10
MW-3	10/23/2023	Arsenic	<4.0	4.0	2.000	2.000	10
MW-3	4/9/2024	Arsenic	<4.0	4.0	2.000	2.000	10
MW-3	10/13/2025	Arsenic	<2.0	4.0	2.000	2.000	10
MW-3	4/11/2016	Cobalt	<0.8	0.9	0.400	0.400	2.8
MW-3	10/12/2016	Cobalt	<0.8	0.9	0.400	0.400	2.8
MW-3	4/13/2017	Cobalt	<0.8	0.9	0.400	0.400	2.8
MW-3	10/25/2017	Cobalt	<0.8	0.9	0.400	0.400	2.8
MW-3	4/12/2018	Cobalt	<0.8	0.9	0.400	0.400	2.1
MW-3	10/16/2018	Cobalt	<0.8	0.9	0.400	0.400	2.1
MW-3	4/18/2019	Cobalt	<0.8	0.9	0.400	0.400	2.1
MW-3	10/15/2019	Cobalt	<0.8	0.9	0.400	0.400	2.1
MW-3	4/6/2020	Cobalt	<0.4	0.9	0.400	0.400	2.1
MW-3	10/15/2020	Cobalt	<0.4	0.9	0.400	0.400	2.1
MW-3	4/12/2021	Cobalt	<0.4	0.9	0.400	0.400	2.1
MW-3	10/6/2021	Cobalt	<0.4	0.9	0.400	0.400	2.1
MW-3	4/14/2022	Cobalt	0.4	0.9	0.400	0.400	2.1
MW-3	10/25/2022	Cobalt	1.6*	0.9	0.000	1.406	2.1
MW-3	1/9/2023	Cobalt	<2.0	0.9	0.000	1.406	2.1
MW-3	4/19/2023	Cobalt	<0.4	0.9	0.000	1.406	2.1
MW-3	10/23/2023	Cobalt	<0.4	0.9	0.000	1.406	2.1
MW-3	4/9/2024	Cobalt	<0.4	0.9	0.200	0.200	2.1
MW-3	10/13/2025	Cobalt	<0.5	0.9	0.200	0.200	2.1

* Not verified

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 10
Historic SSI & SSL
Annual Water Quality Report
Bremer County Sanitary Landfill
Permit No. 09-SDP-01-75C

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)	Prediction Limit (ug/L)	95% LCL (ug/L)	95% UCL (ug/L)	GWPS Limit (ug/L)
MW-4	4/11/2016	Arsenic	<4.0	4.000	2.000	2.000	10
MW-4	10/12/2016	Arsenic	<4.0	4.000	2.000	2.000	10
MW-4	4/13/2017	Arsenic	<4.0	4.000	2.000	2.000	10
MW-4	10/25/2017	Arsenic	<4.0	4.000	2.000	2.000	10
MW-4	4/12/2018	Arsenic	<4.0	4.000	2.000	2.000	10
MW-4	10/16/2018	Arsenic	<4.0	4.000	2.000	2.000	10
MW-4	4/18/2019	Arsenic	<4.0	4.000	2.000	2.000	10
MW-4	10/15/2019	Arsenic	<4.0	4.000	2.000	2.000	10
MW-4	4/6/2020	Arsenic	<4.0	4.000	2.000	2.000	10
MW-4	10/15/2020	Arsenic	<4.0	4.000	2.000	2.000	10
MW-4	4/12/2021	Arsenic	<4.0	4.000	2.000	2.000	10
MW-4	10/6/2021	Arsenic	<4.0	4.000	2.000	2.000	10
MW-4	4/14/2022	Arsenic	<4.0	4.000	2.000	2.000	10
MW-4	10/25/2022	Arsenic	<4.0	4.000	2.000	2.000	10
MW-4	4/19/2023	Arsenic	<4.0	4.000	2.000	2.000	10
MW-4	10/23/2023	Arsenic	<4.0	4.000	2.000	2.000	10
MW-4	4/9/2024	Arsenic	<4.0	4.000	2.000	2.000	10
MW-4	10/13/2025	Arsenic	<2.0	4.000	2.000	2.000	10

Table 10
Historic SSI & SSL
Annual Water Quality Report
Bremer County Sanitary Landfill
Permit No. 09-SDP-01-75C

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)	Prediction Limit (ug/L)	95% LCL (ug/L)	95% UCL (ug/L)	GWPS Limit (ug/L)
MW-4	4/11/2016	Cobalt	1.6	0.900	0	10.753	2.8
MW-4	10/12/2016	Cobalt	<0.8	0.900	0	10.821	2.8
MW-4	4/13/2017	Cobalt	<0.8	0.900	1.665	2.135	2.8
MW-4	10/25/2017	Cobalt	<0.8	0.900	1.665	2.135	2.8
MW-4	4/12/2018	Cobalt	<0.8	0.900	0.4	0.4	2.1
MW-4	10/16/2018	Cobalt	<0.8	0.900	0.4	0.4	2.1
MW-4	4/18/2019	Cobalt	<0.8	0.900	0.4	0.4	2.1
MW-4	10/15/2019	Cobalt	<0.8	0.900	0.4	0.4	2.1
MW-4	4/6/2020	Cobalt	<0.4	0.900	0.4	0.4	2.1
MW-4	10/15/2020	Cobalt	<0.4	0.900	0.4	0.4	2.1
MW-4	4/12/2021	Cobalt	<0.4	0.900	0.4	0.4	2.1
MW-4	7/1/2021	Cobalt	1.0	0.900	0.4	0.4	2.1
MW-4	10/6/2021	Cobalt	<0.4	0.900	0.4	0.4	2.1
MW-4	4/14/2022	Cobalt	2.1	0.900	0.032	1.918	2.1
MW-4	7/13/2022	Cobalt	1.8	0.900	0.032	1.918	2.1
MW-4	10/25/2022	Cobalt	<0.4	0.900	0.113	2.237	2.1
MW-4	4/19/2023	Cobalt	<0.4	0.900	0.113	2.237	2.1
MW-4	10/23/2023	Cobalt	<0.4	0.900	0.000	1.573	2.1
MW-4	4/9/2024	Cobalt	<0.4	0.900	0.200	0.200	2.1
MW-4	10/13/2025	Cobalt	0.8	0.900	0.265	0.735	2.1

Table 11 – Corrective Action Trend Analysis – *Not Required*

Table 12 – *Leachate Summary – Not Required*

Table 13 – Gas Monitoring Summary

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

Permit Compliance

Location/Date	Depth of Probe (ft) from Top PVC	Depth to Top Screen (ft) from Top PVC	Depth to Top Screen from ground surface (ft)	10/13/25 % LEL	10/13/25 Depth to Water (ft) from Top PVC	10/13/25 Exposed* Screen (ft)
SCALEHOUSE	---	---	---	0	---	---
SCALE PIT	---	---	---	0	---	---
CUSTOMER CONVENIENCE BLDGS	---	---	---	0	---	---
MAINTENANCE BLDG	---	---	---	0	---	---
GP-1	11.65	6.65	2.00	0	10.7	-4.05
GP-2	7.50	5.00	1.50	0	7.25	-2.25
GP-3	7.50	5.00	1.50	0	7.2	-2.2
GP-4	3.80	3.63	1.00	broken	---	---
GP-5	10.05	5.00	2.00	0	10	-5.0

**negative values indicate exposed screen length*

Primary Landfill Vents

Location/Date	10/13/25 % LEL
GV-1	7.2
GV-2	O.L.
GV-3	0.0
GV-4	O.L.
GV-5	O.L.
GV-6	0.0
GV-7	O.L.
GV-8	55.3
GV-9	50.0
GV-10	2.2
GV-11	0.0
GV-12	81.4
GV-13	6.6
GV-14	33.3
GV-15	O.L.
GV-16	O.L.

O.L. = Over the Limit, >100%LEL, or >5% methane

Appendix A

Field Sampling Forms

Bremer County Sanitary Landfill
PERMIT # 9-SDP-1-75P

10/13/2025

Sampled by: Todd Whipple

Weather conditions: Overcast becoming sunny, breezy, 60 degrees

IDNR Form 542-1322

Monitoring Well: MW 1 (ug)

Primary Sampling Method:

Secondary Sampling Method:

No-Purge for Appendix I

Purge & Sample for all analytes beyond Appendix I

GENERAL INFORMATION

TOC	1013.3
Well Depth	20.10
Capped	YES
Standing Water	NO
Litter	NO
Level Tape	Solinst 101
NTU Meter	Hach 2100P
No-Purge Equipment -	Solinst 429
Purge Equipment -	Waterra

NO PURGE METHOD

TOC	1013.3
Well Depth	19.90
Top Screen	1002.20
Bottom Screen	993.20
Bottom Well	993.20
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	14.00
Top sample	999.30
Bottom sample	995.30
Turbidity(NTU)	0.73

Date	Time	Water Level	Water Elevation	Notes
10/13/2025	8:30	6.02	1007.28	

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		0.73
Appendix I	Metals	150	150		0.73
Appendix I	VOC	240	240		0.73
Full Appendix II	10 more containers	5620			
TSS	TSS	1000			
Supplemental	BEHP	1 - qt			
Supplemental					
Total			400		

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

TOC	1013.30	4" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	20.10	Before purging	10/13/2025	8:30	6.02	1007.28		0.0	
		After purging				1013.30			
		Top of Screen after construction				1002.20			
						5.08			feet above (+) or below (-) top screen
		Bottom of Well after construction				993.20			
		Bottom of Well	10/13/2025		19.90	993.40			
						0.20			feet sedimentation
		Before Sampling				1013.30			
		Recovery				1013.30			
		Recovery				1013.30			
		Recovery				1013.30			
		Recovery				1013.30			

IDNR Form 542-1322

Monitoring Well: MW 2A (ug)

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

GENERAL INFORMATION

TOC	1012.74
Well Depth	18.55
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	1012.74
Well Depth	18.55
Top Screen	1004.19
Bottom Screen	994.10
Bottom Well	994.10
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	13.00
Top sample	999.74
Bottom sample	995.74
Turbidity(NTU)	0.95

Date	Time	Water Level	Water Elevation	Notes
10/13/2025	8:44	8.05	1004.69	

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		0.95
Appendix I	Metals	150	150		0.95
Appendix I	VOC	240	240		0.95
Full Appendix II	10 more containers	5620			
TSS	TSS	1000			
Supplemental	BEHP	1 - qt			
Supplemental					
Total			400		

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

TOC	1012.74	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	18.55	Before purging	10/13/2025	8:44	8.05	1004.69		0.0	
		After purging				1012.74			
		Top of Screen after construction				1004.19			
						0.50	feet above (+) or below (-) top screen		
		Bottom of Well after construction				994.10			
		Bottom of Well	10/13/2025		18.55	994.19			
						0.09	feet sedimentation		
		Before Sampling				1012.74			
		Recovery				1012.74			
		Recovery				1012.74			
		Recovery				1012.74			
		Recovery				1012.74			

IDNR Form 542-1322

Monitoring Well: MW 3 (dg)

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

GENERAL INFORMATION

TOC	991.35
Well Depth	18.65
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	991.35
Well Depth	17.55
Top Screen	980.70
Bottom Screen	972.70
Bottom Well	972.70
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	12.00
Top sample	979.35
Bottom sample	975.35
Turbidity(NTU)	0.88

Date	Time	Water Level	Water Elevation	Notes
10/13/2025	9:46	8.2	983.15	

ANALYTES, CONTAINERS, AND VOLUMES

Analyte		Required Volume (mL)	Volume Collected No-Purge (mL)	Volume Collected Purge & Sample (mL)	Turbidity this Container (NTU)
All	Field NTU	10	10		0.88
Appendix I	Metals	150	150		0.88
Appendix I	VOC	240	240		0.88
Full Appendix II	10 more containers	5620			
TSS	TSS	1000			
Supplemental	BEHP	1 - qt			
Supplemental					
Total			400		

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

TOC	991.35	4" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	18.65	Before purging	10/13/2025	9:46	8.20	983.15		0.0	
		After purging				991.35			
		Top of Screen after construction				980.70			
						2.45	feet above (+) or below (-) top screen		
		Bottom of Well after construction				972.70			
		Bottom of Well	10/13/2025		17.55	973.80			
						1.10	feet sedimentation		
		Before Sampling				991.35			
		Recovery				991.35			
		Recovery				991.35			
		Recovery				991.35			
		Recovery				991.35			

IDNR Form 542-1322

Monitoring Well: MW 4 (dg)

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

GENERAL INFORMATION

TOC	990.8
Well Depth	18.75
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	990.8
Well Depth	18.40
Top Screen	982.05
Bottom Screen	973.05
Bottom Well	973.05
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	13.00
Top sample	977.80
Bottom sample	973.80
Turbidity(NTU)	0.90

Date	Time	Water Level	Water Elevation	Notes
10/13/2025	9:30	7.29	983.51	

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		0.90
Appendix I	Metals	150	150		0.90
Appendix I	VOC	240	240		0.90
Full Appendix II	10 more containers	5620			
TSS	TSS	1000			
Supplemental	BEHP	1 - qt			
Supplemental					
Total			400		

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

TOC	990.8	4" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	18.75	Before purging	10/13/2025	9:30	7.29	983.51		0.0	
		After purging				990.80			
		Top of Screen after construction				982.05			
						1.46	feet above (+) or below (-) top screen		
		Bottom of Well after construction				973.05			
		Bottom of Well	10/13/2025		18.40	972.40			
						-0.65	feet sedimentation		
		Before Sampling				990.80			
		Recovery				990.80			
		Recovery				990.80			
		Recovery				990.80			
		Recovery				990.80			

IDNR Form 542-1322

Monitoring Well: MW 105B (dg)

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

GENERAL INFORMATION

TOC	993.06
Well Depth	21.90
Capped	YES
Standing Water	NO
Litter	NO
Level Tape	Solinst 101
NTU Meter	Hach 2100P
No-Purge Equipment -	Solinst 429
Purge Equipment -	Waterra

NO PURGE METHOD

TOC	993.06
Well Depth	21.55
Top Screen	981.16
Bottom Screen	971.16
Bottom Well	971.16
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	16.00
Top sample	977.06
Bottom sample	973.06
Turbidity(NTU)	1.63

Date	Time	Water Level	Water Elevation	Notes
10/13/2025	10:20	11.05	982.01	

ANALYTES, CONTAINERS, AND VOLUMES

Analyte		Required Volume (mL)	Volume Collected No-Purge (mL)	Volume Collected Purge & Sample (mL)	Turbidity this Container (NTU)
All	Field NTU	10	10		1.63
Appendix I	Metals	150	150		1.63
Appendix I	VOC	240	240		1.63
Full Appendix II	10 more containers	5620		5620	
TSS	TSS	1000			
Supplemental	BEHP	1 - qt			
Supplemental					
Total			400	5620	

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

TOC	993.06	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	21.90	Before purging	10/13/2025	10:20	11.05	982.01	6	3.4	No
		After purging	10/13/2025	10:33	11.42	981.64			
		Top of Screen after construction				981.16			
						0.85			feet above (+) or below (-) top screen
		Bottom of Well after construction				971.16			
		Bottom of Well	10/13/2025		21.55	971.51			
						0.35			feet sedimentation
		Before Sampling				993.06			App I
		Before Sampling	10/13/2025	10:33	11.42	981.64			App II
		Recovery				993.06			
		Recovery				993.06			
		Recovery				993.06			No Recovery - No significant draw down

IDNR Form 542-1322

Monitoring Well: MW 108A (dg)

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

GENERAL INFORMATION

TOC	994.7
Well Depth	20.55
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	994.7
Well Depth	20.65
Top Screen	983.75
Bottom Screen	973.75
Bottom Well	973.75
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	15.00
Top sample	979.70
Bottom sample	975.70
Turbidity(NTU)	129.70

red

Date	Time	Water Level	Water Elevation	Notes
10/13/2025	10:01	11.87	982.83	

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		129.70
Appendix I	Metals	150	150		129.70
Appendix I	VOC	240	240		129.70
Full Appendix II	10 more containers	5620			
TSS	TSS	1000			
Supplemental	Methyl parathion	1 - qt			
Supplemental					
Total			400		

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

TOC	994.7	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	20.55	Before purging	10/13/2025	10:01	11.87	982.83		0.0	
		After purging				994.70			
		Top of Screen after construction				983.75			
						-0.92			feet above (+) or below (-) top screen
		Bottom of Well after construction				973.75			
		Bottom of Well	10/13/2025		20.65	974.05			
						0.30			feet sedimentation
		Before Sampling				994.70			App I
		Before Sampling				994.70			App II
		Recovery				994.70			
		Recovery				994.70			
		Recovery				994.70			

IDNR Form 542-1322

Monitoring Well: MW 110A (dg)

Primary Sampling Method: No-Purge for Appendix I

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

GENERAL INFORMATION

TOC	995.9
Well Depth	21.00
Capped	YES
Standing Water	NO
Litter	NO
Level Tape	Solinst 101
NTU Meter	Hach 2100P
No-Purge Equipment -	Solinst 429
Purge Equipment -	Waterra

NO PURGE METHOD

TOC	995.9
Well Depth	20.65
Top Screen	985.90
Bottom Screen	974.90
Bottom Well	974.90
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	15.00
Top sample	980.90
Bottom sample	976.90
Turbidity(NTU)	130.00

red

Date	Time	Water Level	Water Elevation	Notes
10/13/2025	9:05	12.53	983.37	

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		130.00
Appendix I	Metals	150	150		130.00
Appendix I	VOC	240	240		130.00
Full Appendix II	10 more containers	5620			
TSS	TSS	1000			
Supplemental	BEHP	1 - qt			
Supplemental					
Total			400		

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

TOC	995.9	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	21.00	Before purging	10/13/2025	9:05	12.53	983.37		0.0	
		After purging				995.90			
		Top of Screen after construction				985.90			
						-2.53	feet above (+) or below (-) top screen		
		Bottom of Well after construction				974.90			
		Bottom of Well	10/13/2025		20.65	975.25			
						0.35	feet sedimentation		
		Before Sampling				995.90			
		Recovery				995.90			
		Recovery				995.90			
		Recovery				995.90			
		Before Sampling				995.90			

Appendix B

Statistical Report

GROUND WATER STATISTICS
FOR THE
BREMER COUNTY LANDFILL

Annual Monitoring Event in 2025

Prepared for:
Bremer County Landfill
2049 200th Street
Waverly, IA

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November 2025

INTRODUCTION

This report summarizes the results of the statistical analysis used to evaluate the ground water quality data obtained during the annual monitoring event in 2025 at the Bremer County Landfill in Waverly, 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. The interwell methodology is described and then applied to the Bremer County Landfill data. The statistical plan conforms with IAC 567, Chapter 113.10, USEPA Guidance document (“*Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities, Unified Guidance*”, March 2009), and the American Society for Testing and Materials (ASTM) standard D6312-98, *Developing Appropriate Statistical Approaches for Ground-Water Detection Monitoring Programs*.

Ground Water Monitoring Program

The groundwater monitoring network for Bremer County Landfill includes upgradient wells MW-1 and MW-2A, and downgradient detection sample points MW-105B, MW-108A, MW-110A, MW-3, MW-4, SW-3A, and SW-4. Each of the groundwater monitoring wells is to be sampled annually 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 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. The prediction limit method was applied to the Bremer 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 ground water wells MW-1 and MW-2A during the period from October 2014 through the current data. A summary of the background data from monitoring wells MW-1 and MW-2A, 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 current data from downgradient wells MW-105B, MW-108A, MW-110A, MW-3, and MW-4 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 Annual Monitoring Event in 2025

Well	Trace Metal	Result	Prediction Limit	Prediction Limit Type	Verified or Awaiting Verification
MW-108A	Arsenic, µg/L	14.4	4.0000	Nonparametric	Verified
	Cadmium, µg/L	3.4	0.8000	Nonparametric	Awaiting Verification
	Cobalt, µg/L	134	0.9000	Nonparametric	Verified
	Nickel, µg/L	28.5	7.1000	Nonparametric	Verified
MW-110A	Arsenic, µg/L	172	4.0000	Nonparametric	Verified
	Barium, µg/L	817	546.8183	Normal	Awaiting Verification
	Cobalt, µg/L	30.3	0.9000	Nonparametric	Verified

The detection frequencies of the parameters in the up and down gradient monitoring wells are summarized in Table 3. With the exception of barium, these constituents are rarely detected in the upgradient wells. With the detection frequencies being less than 50% for all but barium, nonparametric site prediction limits are used for those trace metals.

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 3 standard deviation unit increases over background.

The past and current verified exceedances were evaluated against the ground water protection standards (GWPS) using confidence limits. 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 calculated LCLs for the verified trace metals 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 Bremer County Landfill during the annual monitoring event in 2025 are summarized below.

Organic compounds detected during the annual monitoring event in 2025

Well	VOC Detected	Result, µg/L	Reporting Limit, µg/L	Verified/ Awaiting Verification	Groundwater Standard, µg/L
MW-105B	Bis (2-ethylhexyl)phthalate	6.0	6	Awaiting Verification	6 ^a
MW-110A	1,4-Dichlorobenzene	4.1	1	Verified	75 ^a
	Benzene	1.6	1	Verified	5 ^a
	Chlorobenzene	4.0	1	Verified	100 ^a
	Chloroethane	3.8	1	Verified	2800 ^b

a - USEPA MCL

b – Iowa Statewide Standard

Historical VOC detections are summarized in Attachment C. The verified VOC detections were evaluated against the GWPS using confidence limits (Attachment D). The 95% LCL for the VOCs are all below the respective ground water standards.

Attachment A

Summary of the Data obtained during the Annual Monitoring Event in 2025

Table 1

Analytical Data Summary for 10/13/2025

Constituents	Units	MW-1	MW-105B	MW-108A	MW-110A	MW-2A	MW-3	MW-4
(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-dichloroethene	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	<5	<1	<5	<5	<5	<5	<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
1,2-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	4.1	<1.0	<1.0	<1.0
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	<10	<5	<10	<10	<10	<10	<10
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 1

Analytical Data Summary for 10/13/2025

Constituents	Units	MW-1	MW-105B	MW-108A	MW-110A	MW-2A	MW-3	MW-4
Antimony, total	ug/L	<1.0	<1.0	1.0	<1.0	1.1	<1.0	<1.0
Arochlor 1016	ug/L		<2					
Arochlor 1221	ug/L		<2					
Arochlor 1232	ug/L		<2					
Arochlor 1242	ug/L		<2					
Arochlor 1248	ug/L		<2					
Arochlor 1254	ug/L		<2					
Arochlor 1260	ug/L		<2					
Arsenic, total	ug/L	<2.0	<2.0	14.4	172.0	<2.0	<2.0	<2.0
Azobenzene	ug/L		<8					
Barium, total	ug/L	354.0	115.0	47.6	817.0	69.0	60.5	144.0
Benzene	ug/L	<1.0	<1.0	<1.0	1.6	<1.0	<1.0	<1.0
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	<.5	<.5	<.5	<.5	<.5	<.5	<.5
Beta-bhc	ug/L		<.05					
Bis (2-chloroethoxy) methane	ug/L		<8					
Bis(2-chloroethyl) ether	ug/L		<8					
Bis(2-ethylhexyl) phthalate	ug/L		6					
Bis[2-chloroisopropyl]ether	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	<.2	.2	3.4	.6	<.2	.5	<.2
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	4	<1	<1	<1
Chlorobenzilate	ug/L		<8					
Chloroethane	ug/L	<1.0	<1.0	<1.0	3.8	<1.0	<1.0	<1.0
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	1.0	1.0	1.0	1.0	1.3	1.1	1.2
Chrysene	ug/L		<8					
Cis-1,2-dichloroethene	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	<.5	<.5	134.0	30.3	<.5	<.5	.8
Copper, total	ug/L	<5	<5	<5	<5	<5	<5	<5
Cyanide, total	mg/L		<.01					
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 1

Analytical Data Summary for 10/13/2025

Constituents	Units	MW-1	MW-105B	MW-108A	MW-110A	MW-2A	MW-3	MW-4
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	<1.0	<1.0	<1.0	1.5	<1.0	<1.0	<1.0
Mercury, total	ug/L		<5					
Methacrylonitrile	ug/L		<1					
Methapyrilene	ug/L		<8					
Methoxychlor	ug/L		<.05					
Methyl iodide	ug/L	<1	<2	<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	<5.0	<5.0	28.5	6.9	<5.0	<5.0	<5.0
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					
P-(dimethylamino)azobenzene	ug/L		<8					
Parathion	ug/L		<4					
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	<2	<2	<2	<2	<2	<2	<2
Silver, total	ug/L	<5	<5	<5	<5	<5	<5	<5
Styrene	ug/L	<1	<1	<1	<1	<1	<1	<1
Sulfide, total	mg/L		<1					
Tetrachloroethene	ug/L	<1	<1	<1	<1	<1	<1	<1
Thallium, total	ug/L	<.5	<.5	<.5	<.5	<.5	<.5	<.5
Thionazin	ug/L		<4					
Tin, total	ug/L		<5					
Toluene	ug/L	<1	<1	<1	<1	<1	<1	<1
Toxaphene	ug/L		<2					
Trans-1,2-dichloroethene	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
Trichloroethene	ug/L	<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	ug/L	<1	<1	<1	<1	<1	<1	<1
Vanadium, total	ug/L	<2.0	<2.0	4.5	2.4	<2.0	<2.0	2.9
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	<5.0	6.9	16.4	19.8	15.6	6.3	6.0

* - 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-1	10/15/2014	ND	2.0000		
Antimony, total	ug/L	MW-1	01/12/2015	ND	2.0000		
Antimony, total	ug/L	MW-1	04/13/2015	ND	2.0000		
Antimony, total	ug/L	MW-1	07/21/2015	ND	2.0000		
Antimony, total	ug/L	MW-1	09/22/2015	ND	2.0000		
Antimony, total	ug/L	MW-1	04/11/2016	ND	2.0000		
Antimony, total	ug/L	MW-1	10/12/2016	ND	2.0000		
Antimony, total	ug/L	MW-1	04/13/2017	ND	2.0000		
Antimony, total	ug/L	MW-1	10/25/2017	ND	2.0000		
Antimony, total	ug/L	MW-1	04/12/2018	ND	2.0000		
Antimony, total	ug/L	MW-1	10/16/2018	ND	2.0000		
Antimony, total	ug/L	MW-1	04/18/2019	ND	2.0000		
Antimony, total	ug/L	MW-1	10/15/2019	ND	2.0000		
Antimony, total	ug/L	MW-1	04/06/2020	ND	2.0000		
Antimony, total	ug/L	MW-1	10/15/2020	ND	2.0000		
Antimony, total	ug/L	MW-1	04/12/2021	ND	2.0000		
Antimony, total	ug/L	MW-1	10/06/2021	ND	2.0000		
Antimony, total	ug/L	MW-1	04/14/2022	ND	2.0000		
Antimony, total	ug/L	MW-1	10/25/2022	ND	2.0000		
Antimony, total	ug/L	MW-1	04/19/2023	ND	2.0000		
Antimony, total	ug/L	MW-1	10/23/2023	ND	2.0000		
Antimony, total	ug/L	MW-1	04/09/2024	ND	2.0000		
Antimony, total	ug/L	MW-1	10/13/2025	ND	1.0000	2.0000	**
Arsenic, total	ug/L	MW-1	10/15/2014	ND	4.0000		
Arsenic, total	ug/L	MW-1	01/12/2015	ND	4.0000		
Arsenic, total	ug/L	MW-1	04/13/2015	ND	4.0000		
Arsenic, total	ug/L	MW-1	07/21/2015	ND	4.0000		
Arsenic, total	ug/L	MW-1	09/22/2015	ND	4.0000		
Arsenic, total	ug/L	MW-1	04/11/2016	ND	4.0000		
Arsenic, total	ug/L	MW-1	10/12/2016	ND	4.0000		
Arsenic, total	ug/L	MW-1	04/13/2017	ND	4.0000		
Arsenic, total	ug/L	MW-1	10/25/2017	ND	4.0000		
Arsenic, total	ug/L	MW-1	04/12/2018	ND	4.0000		
Arsenic, total	ug/L	MW-1	10/16/2018	ND	4.0000		
Arsenic, total	ug/L	MW-1	04/18/2019	ND	4.0000		
Arsenic, total	ug/L	MW-1	10/15/2019	ND	4.0000		
Arsenic, total	ug/L	MW-1	04/06/2020	ND	4.0000		
Arsenic, total	ug/L	MW-1	10/15/2020	ND	4.0000		
Arsenic, total	ug/L	MW-1	04/12/2021	ND	4.0000		
Arsenic, total	ug/L	MW-1	10/06/2021	ND	4.0000		
Arsenic, total	ug/L	MW-1	04/14/2022	ND	4.0000		
Arsenic, total	ug/L	MW-1	10/25/2022	ND	4.0000		
Arsenic, total	ug/L	MW-1	04/19/2023	ND	4.0000		
Arsenic, total	ug/L	MW-1	10/23/2023	ND	4.0000		
Arsenic, total	ug/L	MW-1	04/09/2024	ND	4.0000		
Arsenic, total	ug/L	MW-1	10/13/2025	ND	2.0000	4.0000	**
Barium, total	ug/L	MW-1	10/15/2014		370.0000		
Barium, total	ug/L	MW-1	01/12/2015		385.0000		
Barium, total	ug/L	MW-1	04/13/2015		385.0000		
Barium, total	ug/L	MW-1	07/21/2015		336.0000		
Barium, total	ug/L	MW-1	09/22/2015		307.0000		
Barium, total	ug/L	MW-1	04/11/2016		284.0000		
Barium, total	ug/L	MW-1	10/12/2016		324.0000		
Barium, total	ug/L	MW-1	04/13/2017		341.0000		
Barium, total	ug/L	MW-1	10/25/2017		325.0000		
Barium, total	ug/L	MW-1	04/12/2018		323.0000		
Barium, total	ug/L	MW-1	10/16/2018		297.0000		
Barium, total	ug/L	MW-1	04/18/2019		365.0000		
Barium, total	ug/L	MW-1	10/15/2019		340.0000		
Barium, total	ug/L	MW-1	04/06/2020		334.0000		
Barium, total	ug/L	MW-1	10/15/2020		316.0000		
Barium, total	ug/L	MW-1	04/12/2021		351.0000		
Barium, total	ug/L	MW-1	10/06/2021		315.0000		
Barium, total	ug/L	MW-1	04/14/2022		335.0000		
Barium, total	ug/L	MW-1	10/25/2022		331.0000		
Barium, total	ug/L	MW-1	04/19/2023		332.0000		
Barium, total	ug/L	MW-1	10/23/2023		331.0000		
Barium, total	ug/L	MW-1	04/09/2024		361.0000		
Barium, total	ug/L	MW-1	10/13/2025		354.0000		
Beryllium, total	ug/L	MW-1	10/15/2014	ND	4.0000		
Beryllium, total	ug/L	MW-1	01/12/2015	ND	4.0000		
Beryllium, total	ug/L	MW-1	04/13/2015	ND	4.0000		
Beryllium, total	ug/L	MW-1	07/21/2015	ND	4.0000		
Beryllium, total	ug/L	MW-1	09/22/2015	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-1	04/11/2016	ND	4.0000		
Beryllium, total	ug/L	MW-1	10/12/2016	ND	4.0000		
Beryllium, total	ug/L	MW-1	04/13/2017	ND	4.0000		
Beryllium, total	ug/L	MW-1	10/25/2017	ND	4.0000		
Beryllium, total	ug/L	MW-1	04/12/2018	ND	4.0000		
Beryllium, total	ug/L	MW-1	10/16/2018	ND	4.0000		
Beryllium, total	ug/L	MW-1	04/18/2019	ND	4.0000		
Beryllium, total	ug/L	MW-1	10/15/2019	ND	4.0000		
Beryllium, total	ug/L	MW-1	04/06/2020	ND	4.0000		
Beryllium, total	ug/L	MW-1	10/15/2020	ND	4.0000		
Beryllium, total	ug/L	MW-1	04/12/2021	ND	4.0000		
Beryllium, total	ug/L	MW-1	10/06/2021	ND	4.0000		
Beryllium, total	ug/L	MW-1	04/14/2022	ND	4.0000		
Beryllium, total	ug/L	MW-1	10/25/2022	ND	4.0000		
Beryllium, total	ug/L	MW-1	04/19/2023	ND	4.0000		
Beryllium, total	ug/L	MW-1	10/23/2023	ND	4.0000		
Beryllium, total	ug/L	MW-1	04/09/2024	ND	4.0000		
Beryllium, total	ug/L	MW-1	10/13/2025	ND	0.5000		*
Cadmium, total	ug/L	MW-1	10/15/2014	ND	0.8000		
Cadmium, total	ug/L	MW-1	01/12/2015	ND	0.8000		
Cadmium, total	ug/L	MW-1	04/13/2015	ND	0.8000		
Cadmium, total	ug/L	MW-1	07/21/2015	ND	0.8000		
Cadmium, total	ug/L	MW-1	09/22/2015	ND	0.8000		
Cadmium, total	ug/L	MW-1	04/11/2016	ND	0.8000		
Cadmium, total	ug/L	MW-1	10/12/2016	ND	0.8000		
Cadmium, total	ug/L	MW-1	04/13/2017	ND	0.8000		
Cadmium, total	ug/L	MW-1	10/25/2017	ND	0.8000		
Cadmium, total	ug/L	MW-1	04/12/2018	ND	0.8000		
Cadmium, total	ug/L	MW-1	10/16/2018	ND	0.8000		
Cadmium, total	ug/L	MW-1	04/18/2019	ND	0.8000		
Cadmium, total	ug/L	MW-1	10/15/2019	ND	0.8000		
Cadmium, total	ug/L	MW-1	04/06/2020	ND	0.8000		
Cadmium, total	ug/L	MW-1	10/15/2020	ND	0.8000		
Cadmium, total	ug/L	MW-1	04/12/2021	ND	0.8000		
Cadmium, total	ug/L	MW-1	10/06/2021	ND	0.8000		
Cadmium, total	ug/L	MW-1	04/14/2022		2.1000		*
Cadmium, total	ug/L	MW-1	10/25/2022	ND	0.8000		
Cadmium, total	ug/L	MW-1	04/19/2023	ND	0.8000		
Cadmium, total	ug/L	MW-1	10/23/2023	ND	0.8000		
Cadmium, total	ug/L	MW-1	04/09/2024	ND	0.8000		
Cadmium, total	ug/L	MW-1	10/13/2025	ND	0.2000		*
Chromium, total	ug/L	MW-1	10/15/2014	ND	8.0000		
Chromium, total	ug/L	MW-1	01/12/2015	ND	8.0000		
Chromium, total	ug/L	MW-1	04/13/2015	ND	8.0000		
Chromium, total	ug/L	MW-1	07/21/2015	ND	8.0000		
Chromium, total	ug/L	MW-1	09/22/2015	ND	8.0000		
Chromium, total	ug/L	MW-1	04/11/2016	ND	8.0000		
Chromium, total	ug/L	MW-1	10/12/2016	ND	8.0000		
Chromium, total	ug/L	MW-1	04/13/2017	ND	8.0000		
Chromium, total	ug/L	MW-1	10/25/2017	ND	8.0000		
Chromium, total	ug/L	MW-1	04/12/2018	ND	8.0000		
Chromium, total	ug/L	MW-1	10/16/2018	ND	8.0000		
Chromium, total	ug/L	MW-1	04/18/2019	ND	8.0000		
Chromium, total	ug/L	MW-1	10/15/2019	ND	8.0000		
Chromium, total	ug/L	MW-1	04/06/2020	ND	8.0000		
Chromium, total	ug/L	MW-1	10/15/2020	ND	8.0000		
Chromium, total	ug/L	MW-1	04/12/2021	ND	8.0000		
Chromium, total	ug/L	MW-1	10/06/2021	ND	8.0000		
Chromium, total	ug/L	MW-1	04/14/2022	ND	8.0000		
Chromium, total	ug/L	MW-1	10/25/2022	ND	8.0000		
Chromium, total	ug/L	MW-1	04/19/2023	ND	8.0000		
Chromium, total	ug/L	MW-1	10/23/2023	ND	8.0000		
Chromium, total	ug/L	MW-1	04/09/2024	ND	8.0000		
Chromium, total	ug/L	MW-1	10/13/2025		1.0000		*
Cobalt, total	ug/L	MW-1	10/15/2014	ND	0.8000		
Cobalt, total	ug/L	MW-1	01/12/2015	ND	0.8000		
Cobalt, total	ug/L	MW-1	04/13/2015	ND	0.8000		
Cobalt, total	ug/L	MW-1	07/21/2015	ND	0.8000		
Cobalt, total	ug/L	MW-1	09/22/2015	ND	0.8000		
Cobalt, total	ug/L	MW-1	04/11/2016	ND	0.8000		
Cobalt, total	ug/L	MW-1	10/12/2016	ND	0.8000		
Cobalt, total	ug/L	MW-1	04/13/2017	ND	0.8000		
Cobalt, total	ug/L	MW-1	10/25/2017	ND	0.8000		
Cobalt, total	ug/L	MW-1	04/12/2018	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-1	10/16/2018	ND	0.8000		
Cobalt, total	ug/L	MW-1	04/18/2019	ND	0.8000		
Cobalt, total	ug/L	MW-1	10/15/2019	ND	0.8000		
Cobalt, total	ug/L	MW-1	04/06/2020	ND	0.4000	0.8000	**
Cobalt, total	ug/L	MW-1	10/15/2020	ND	0.4000	0.8000	**
Cobalt, total	ug/L	MW-1	04/12/2021	ND	0.4000	0.8000	**
Cobalt, total	ug/L	MW-1	10/06/2021	ND	0.4000	0.8000	**
Cobalt, total	ug/L	MW-1	04/14/2022	ND	0.4000	0.8000	**
Cobalt, total	ug/L	MW-1	10/25/2022	ND	0.4000	0.8000	**
Cobalt, total	ug/L	MW-1	04/19/2023	ND	0.4000	0.8000	**
Cobalt, total	ug/L	MW-1	10/23/2023	ND	0.4000	0.8000	**
Cobalt, total	ug/L	MW-1	04/09/2024	ND	0.4000	0.8000	**
Cobalt, total	ug/L	MW-1	10/13/2025	ND	0.5000	0.8000	**
Copper, total	ug/L	MW-1	10/15/2014	ND	4.0000		
Copper, total	ug/L	MW-1	01/12/2015	ND	4.0000		
Copper, total	ug/L	MW-1	04/13/2015	ND	4.0000		
Copper, total	ug/L	MW-1	07/21/2015	ND	4.0000		
Copper, total	ug/L	MW-1	09/22/2015	ND	4.0000		
Copper, total	ug/L	MW-1	04/11/2016		8.4000		
Copper, total	ug/L	MW-1	10/12/2016	ND	4.0000		
Copper, total	ug/L	MW-1	04/13/2017	ND	4.0000		
Copper, total	ug/L	MW-1	10/25/2017	ND	4.0000		
Copper, total	ug/L	MW-1	04/12/2018	ND	4.0000		
Copper, total	ug/L	MW-1	10/16/2018	ND	4.0000		
Copper, total	ug/L	MW-1	04/18/2019	ND	4.0000		
Copper, total	ug/L	MW-1	10/15/2019	ND	4.0000		
Copper, total	ug/L	MW-1	04/06/2020	ND	4.0000		
Copper, total	ug/L	MW-1	10/15/2020	ND	4.0000		
Copper, total	ug/L	MW-1	04/12/2021	ND	4.0000		
Copper, total	ug/L	MW-1	10/06/2021	ND	4.0000		
Copper, total	ug/L	MW-1	04/14/2022	ND	4.0000		
Copper, total	ug/L	MW-1	10/25/2022	ND	4.0000		
Copper, total	ug/L	MW-1	04/19/2023	ND	4.0000		
Copper, total	ug/L	MW-1	10/23/2023	ND	4.0000		
Copper, total	ug/L	MW-1	04/09/2024	ND	4.0000		
Copper, total	ug/L	MW-1	10/13/2025	ND	5.0000	4.0000	**
Lead, total	ug/L	MW-1	10/15/2014	ND	4.0000		
Lead, total	ug/L	MW-1	01/12/2015	ND	4.0000		
Lead, total	ug/L	MW-1	04/13/2015	ND	4.0000		
Lead, total	ug/L	MW-1	07/21/2015	ND	4.0000		
Lead, total	ug/L	MW-1	09/22/2015	ND	4.0000		
Lead, total	ug/L	MW-1	04/11/2016	ND	4.0000		
Lead, total	ug/L	MW-1	10/12/2016	ND	4.0000		
Lead, total	ug/L	MW-1	04/13/2017	ND	4.0000		
Lead, total	ug/L	MW-1	10/25/2017	ND	4.0000		
Lead, total	ug/L	MW-1	04/12/2018	ND	4.0000		
Lead, total	ug/L	MW-1	10/16/2018	ND	4.0000		
Lead, total	ug/L	MW-1	04/18/2019	ND	4.0000		
Lead, total	ug/L	MW-1	10/15/2019	ND	4.0000		
Lead, total	ug/L	MW-1	04/06/2020	ND	4.0000		
Lead, total	ug/L	MW-1	10/15/2020	ND	4.0000		
Lead, total	ug/L	MW-1	04/12/2021	ND	4.0000		
Lead, total	ug/L	MW-1	10/06/2021	ND	4.0000		
Lead, total	ug/L	MW-1	04/14/2022	ND	4.0000		
Lead, total	ug/L	MW-1	10/25/2022	ND	4.0000		
Lead, total	ug/L	MW-1	04/19/2023	ND	4.0000		
Lead, total	ug/L	MW-1	10/23/2023	ND	4.0000		
Lead, total	ug/L	MW-1	04/09/2024	ND	4.0000		
Lead, total	ug/L	MW-1	10/13/2025	ND	1.0000		*
Nickel, total	ug/L	MW-1	10/15/2014	ND	4.0000		
Nickel, total	ug/L	MW-1	01/12/2015	ND	4.0000		
Nickel, total	ug/L	MW-1	04/13/2015	ND	4.0000		
Nickel, total	ug/L	MW-1	07/21/2015	ND	4.0000		
Nickel, total	ug/L	MW-1	09/22/2015	ND	4.0000		
Nickel, total	ug/L	MW-1	04/11/2016	ND	4.0000		
Nickel, total	ug/L	MW-1	10/12/2016	ND	4.0000		
Nickel, total	ug/L	MW-1	04/13/2017	ND	4.0000		
Nickel, total	ug/L	MW-1	10/25/2017	ND	4.0000		
Nickel, total	ug/L	MW-1	04/12/2018	ND	4.0000		
Nickel, total	ug/L	MW-1	10/16/2018	ND	4.0000		
Nickel, total	ug/L	MW-1	04/18/2019	ND	4.0000		
Nickel, total	ug/L	MW-1	10/15/2019	ND	4.0000		
Nickel, total	ug/L	MW-1	04/06/2020	ND	4.0000		
Nickel, total	ug/L	MW-1	10/15/2020	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	
Nickel, total	ug/L	MW-1	04/12/2021	ND	4.0000		
Nickel, total	ug/L	MW-1	10/06/2021	ND	4.0000		
Nickel, total	ug/L	MW-1	04/14/2022	ND	4.0000		
Nickel, total	ug/L	MW-1	10/25/2022	ND	4.0000		
Nickel, total	ug/L	MW-1	04/19/2023	ND	4.0000		
Nickel, total	ug/L	MW-1	10/23/2023	ND	4.0000		
Nickel, total	ug/L	MW-1	04/09/2024	ND	4.0000		
Nickel, total	ug/L	MW-1	10/13/2025	ND	5.0000	4.0000	**
Selenium, total	ug/L	MW-1	10/15/2014	ND	4.0000		
Selenium, total	ug/L	MW-1	01/12/2015	ND	4.0000		
Selenium, total	ug/L	MW-1	04/13/2015	ND	4.0000		
Selenium, total	ug/L	MW-1	07/21/2015	ND	4.0000		
Selenium, total	ug/L	MW-1	09/22/2015	ND	4.0000		
Selenium, total	ug/L	MW-1	04/11/2016	ND	4.0000		
Selenium, total	ug/L	MW-1	10/12/2016	ND	4.0000		
Selenium, total	ug/L	MW-1	04/13/2017	ND	4.0000		
Selenium, total	ug/L	MW-1	10/25/2017	ND	4.0000		
Selenium, total	ug/L	MW-1	04/12/2018	ND	4.0000		
Selenium, total	ug/L	MW-1	10/16/2018	ND	4.0000		
Selenium, total	ug/L	MW-1	04/18/2019	ND	4.0000		
Selenium, total	ug/L	MW-1	10/15/2019	ND	4.0000		
Selenium, total	ug/L	MW-1	04/06/2020	ND	4.0000		
Selenium, total	ug/L	MW-1	10/15/2020	ND	4.0000		
Selenium, total	ug/L	MW-1	04/12/2021	ND	4.0000		
Selenium, total	ug/L	MW-1	10/06/2021	ND	4.0000		
Selenium, total	ug/L	MW-1	04/14/2022	ND	4.0000		
Selenium, total	ug/L	MW-1	10/25/2022	ND	4.0000		
Selenium, total	ug/L	MW-1	04/19/2023	ND	4.0000		
Selenium, total	ug/L	MW-1	10/23/2023	ND	4.0000		
Selenium, total	ug/L	MW-1	04/09/2024	ND	4.0000		
Selenium, total	ug/L	MW-1	10/13/2025	ND	2.0000	4.0000	**
Silver, total	ug/L	MW-1	10/15/2014	ND	4.0000		
Silver, total	ug/L	MW-1	01/12/2015	ND	4.0000		
Silver, total	ug/L	MW-1	04/13/2015	ND	4.0000		
Silver, total	ug/L	MW-1	07/21/2015	ND	4.0000		
Silver, total	ug/L	MW-1	09/22/2015	ND	4.0000		
Silver, total	ug/L	MW-1	04/11/2016	ND	4.0000		
Silver, total	ug/L	MW-1	10/12/2016	ND	4.0000		
Silver, total	ug/L	MW-1	04/13/2017	ND	4.0000		
Silver, total	ug/L	MW-1	10/25/2017	ND	4.0000		
Silver, total	ug/L	MW-1	04/12/2018	ND	4.0000		
Silver, total	ug/L	MW-1	10/16/2018	ND	4.0000		
Silver, total	ug/L	MW-1	04/18/2019	ND	4.0000		
Silver, total	ug/L	MW-1	10/15/2019	ND	4.0000		
Silver, total	ug/L	MW-1	04/06/2020	ND	4.0000		
Silver, total	ug/L	MW-1	10/15/2020	ND	4.0000		
Silver, total	ug/L	MW-1	04/12/2021	ND	4.0000		
Silver, total	ug/L	MW-1	10/06/2021	ND	4.0000		
Silver, total	ug/L	MW-1	04/14/2022	ND	4.0000		
Silver, total	ug/L	MW-1	10/25/2022	ND	4.0000		
Silver, total	ug/L	MW-1	04/19/2023	ND	4.0000		
Silver, total	ug/L	MW-1	10/23/2023	ND	4.0000		
Silver, total	ug/L	MW-1	04/09/2024	ND	4.0000		
Silver, total	ug/L	MW-1	10/13/2025	ND	5.0000	4.0000	**
Thallium, total	ug/L	MW-1	10/15/2014	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-1	01/12/2015	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-1	04/13/2015	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-1	07/21/2015	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-1	09/22/2015	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-1	04/11/2016	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-1	10/12/2016	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-1	04/13/2017	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-1	10/25/2017	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-1	04/12/2018	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-1	10/16/2018	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-1	04/18/2019	ND	2.0000		
Thallium, total	ug/L	MW-1	10/15/2019	ND	2.0000		
Thallium, total	ug/L	MW-1	04/06/2020	ND	2.0000		
Thallium, total	ug/L	MW-1	10/15/2020	ND	2.0000		
Thallium, total	ug/L	MW-1	04/12/2021	ND	2.0000		
Thallium, total	ug/L	MW-1	10/06/2021	ND	2.0000		
Thallium, total	ug/L	MW-1	04/14/2022	ND	2.0000		
Thallium, total	ug/L	MW-1	10/25/2022	ND	2.0000		
Thallium, total	ug/L	MW-1	04/19/2023	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-1	10/23/2023	ND	2.0000		
Thallium, total	ug/L	MW-1	04/09/2024	ND	2.0000		
Thallium, total	ug/L	MW-1	10/13/2025	ND	0.5000		*
Vanadium, total	ug/L	MW-1	10/15/2014	ND	20.0000		
Vanadium, total	ug/L	MW-1	01/12/2015	ND	20.0000		
Vanadium, total	ug/L	MW-1	04/13/2015	ND	20.0000		
Vanadium, total	ug/L	MW-1	07/21/2015	ND	20.0000		
Vanadium, total	ug/L	MW-1	09/22/2015	ND	20.0000		
Vanadium, total	ug/L	MW-1	04/11/2016	ND	20.0000		
Vanadium, total	ug/L	MW-1	10/12/2016	ND	20.0000		
Vanadium, total	ug/L	MW-1	04/13/2017	ND	20.0000		
Vanadium, total	ug/L	MW-1	10/25/2017	ND	20.0000		
Vanadium, total	ug/L	MW-1	04/12/2018	ND	20.0000		
Vanadium, total	ug/L	MW-1	10/16/2018	ND	20.0000		
Vanadium, total	ug/L	MW-1	04/18/2019	ND	20.0000		
Vanadium, total	ug/L	MW-1	10/15/2019	ND	20.0000		
Vanadium, total	ug/L	MW-1	04/06/2020	ND	20.0000		
Vanadium, total	ug/L	MW-1	10/15/2020	ND	20.0000		
Vanadium, total	ug/L	MW-1	04/12/2021	ND	20.0000		
Vanadium, total	ug/L	MW-1	10/06/2021	ND	20.0000		
Vanadium, total	ug/L	MW-1	04/14/2022	ND	20.0000		
Vanadium, total	ug/L	MW-1	10/25/2022	ND	20.0000		
Vanadium, total	ug/L	MW-1	04/19/2023	ND	20.0000		
Vanadium, total	ug/L	MW-1	10/23/2023	ND	20.0000		
Vanadium, total	ug/L	MW-1	04/09/2024	ND	20.0000		
Vanadium, total	ug/L	MW-1	10/13/2025	ND	2.0000		*
Zinc, total	ug/L	MW-1	10/15/2014	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-1	01/12/2015	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-1	04/13/2015	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-1	07/21/2015	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-1	09/22/2015	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-1	04/11/2016	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-1	10/12/2016	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-1	04/13/2017	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-1	10/25/2017	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-1	04/12/2018	ND	20.0000		
Zinc, total	ug/L	MW-1	10/16/2018	ND	20.0000		
Zinc, total	ug/L	MW-1	04/18/2019	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-1	10/15/2019	ND	20.0000		
Zinc, total	ug/L	MW-1	04/06/2020	ND	20.0000		
Zinc, total	ug/L	MW-1	10/15/2020	ND	20.0000		
Zinc, total	ug/L	MW-1	04/12/2021	ND	20.0000		
Zinc, total	ug/L	MW-1	10/06/2021	ND	20.0000		
Zinc, total	ug/L	MW-1	04/14/2022	ND	20.0000		
Zinc, total	ug/L	MW-1	10/25/2022	ND	20.0000		
Zinc, total	ug/L	MW-1	04/19/2023	ND	20.0000		
Zinc, total	ug/L	MW-1	10/23/2023	ND	20.0000		
Zinc, total	ug/L	MW-1	04/09/2024	ND	20.0000		
Zinc, total	ug/L	MW-1	10/13/2025	ND	5.0000	20.0000	**
Antimony, total	ug/L	MW-2A	10/15/2014	ND	2.0000		
Antimony, total	ug/L	MW-2A	01/12/2015	ND	2.0000		
Antimony, total	ug/L	MW-2A	04/13/2015	ND	2.0000		
Antimony, total	ug/L	MW-2A	07/21/2015	ND	2.0000		
Antimony, total	ug/L	MW-2A	09/22/2015	ND	2.0000		
Antimony, total	ug/L	MW-2A	04/11/2016	ND	2.0000		
Antimony, total	ug/L	MW-2A	10/12/2016	ND	2.0000		
Antimony, total	ug/L	MW-2A	04/13/2017	ND	2.0000		
Antimony, total	ug/L	MW-2A	10/25/2017	ND	2.0000		
Antimony, total	ug/L	MW-2A	04/12/2018	ND	2.0000		
Antimony, total	ug/L	MW-2A	10/16/2018	ND	2.0000		
Antimony, total	ug/L	MW-2A	04/18/2019	ND	2.0000		
Antimony, total	ug/L	MW-2A	10/15/2019	ND	2.0000		
Antimony, total	ug/L	MW-2A	04/06/2020	ND	2.0000		
Antimony, total	ug/L	MW-2A	10/15/2020	ND	2.0000		
Antimony, total	ug/L	MW-2A	04/12/2021	ND	2.0000		
Antimony, total	ug/L	MW-2A	10/06/2021	ND	2.0000		
Antimony, total	ug/L	MW-2A	04/14/2022	ND	2.0000		
Antimony, total	ug/L	MW-2A	10/25/2022	ND	2.0000		
Antimony, total	ug/L	MW-2A	04/19/2023	ND	2.0000		
Antimony, total	ug/L	MW-2A	10/23/2023	ND	2.0000		
Antimony, total	ug/L	MW-2A	04/09/2024	ND	2.0000		
Antimony, total	ug/L	MW-2A	10/13/2025		1.1000		
Arsenic, total	ug/L	MW-2A	10/15/2014	ND	4.0000		
Arsenic, total	ug/L	MW-2A	01/12/2015	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	
Arsenic, total	ug/L	MW-2A	04/13/2015	ND	4.0000		
Arsenic, total	ug/L	MW-2A	07/21/2015	ND	4.0000		
Arsenic, total	ug/L	MW-2A	09/22/2015	ND	4.0000		
Arsenic, total	ug/L	MW-2A	04/11/2016	ND	4.0000		
Arsenic, total	ug/L	MW-2A	10/12/2016	ND	4.0000		
Arsenic, total	ug/L	MW-2A	04/13/2017	ND	4.0000		
Arsenic, total	ug/L	MW-2A	10/25/2017	ND	4.0000		
Arsenic, total	ug/L	MW-2A	04/12/2018	ND	4.0000		
Arsenic, total	ug/L	MW-2A	10/16/2018	ND	4.0000		
Arsenic, total	ug/L	MW-2A	04/18/2019	ND	4.0000		
Arsenic, total	ug/L	MW-2A	10/15/2019	ND	4.0000		
Arsenic, total	ug/L	MW-2A	04/06/2020	ND	4.0000		
Arsenic, total	ug/L	MW-2A	10/15/2020	ND	4.0000		
Arsenic, total	ug/L	MW-2A	04/12/2021	ND	4.0000		
Arsenic, total	ug/L	MW-2A	10/06/2021	ND	4.0000		
Arsenic, total	ug/L	MW-2A	04/14/2022	ND	4.0000		
Arsenic, total	ug/L	MW-2A	10/25/2022	ND	4.0000		
Arsenic, total	ug/L	MW-2A	04/19/2023	ND	4.0000		
Arsenic, total	ug/L	MW-2A	10/23/2023	ND	4.0000		
Arsenic, total	ug/L	MW-2A	04/09/2024	ND	4.0000		
Arsenic, total	ug/L	MW-2A	10/13/2025	ND	2.0000	4.0000	**
Barium, total	ug/L	MW-2A	10/15/2014		57.8000		
Barium, total	ug/L	MW-2A	01/12/2015		45.6000		
Barium, total	ug/L	MW-2A	04/13/2015		43.3000		
Barium, total	ug/L	MW-2A	07/21/2015		50.0000		
Barium, total	ug/L	MW-2A	09/22/2015		47.3000		
Barium, total	ug/L	MW-2A	04/11/2016		32.5000		
Barium, total	ug/L	MW-2A	10/12/2016		54.8000		
Barium, total	ug/L	MW-2A	04/13/2017		45.7000		
Barium, total	ug/L	MW-2A	10/25/2017		58.0000		
Barium, total	ug/L	MW-2A	04/12/2018		45.6000		
Barium, total	ug/L	MW-2A	10/16/2018		46.1000		
Barium, total	ug/L	MW-2A	04/18/2019		56.8000		
Barium, total	ug/L	MW-2A	10/15/2019		59.2000		
Barium, total	ug/L	MW-2A	04/06/2020		55.7000		
Barium, total	ug/L	MW-2A	10/15/2020		56.5000		
Barium, total	ug/L	MW-2A	04/12/2021		53.3000		
Barium, total	ug/L	MW-2A	10/06/2021		59.0000		
Barium, total	ug/L	MW-2A	04/14/2022		58.7000		
Barium, total	ug/L	MW-2A	10/25/2022		64.8000		
Barium, total	ug/L	MW-2A	04/19/2023		61.1000		
Barium, total	ug/L	MW-2A	10/23/2023		56.6000		
Barium, total	ug/L	MW-2A	04/09/2024		58.4000		
Barium, total	ug/L	MW-2A	10/13/2025		69.0000		
Beryllium, total	ug/L	MW-2A	10/15/2014	ND	4.0000		
Beryllium, total	ug/L	MW-2A	01/12/2015	ND	4.0000		
Beryllium, total	ug/L	MW-2A	04/13/2015	ND	4.0000		
Beryllium, total	ug/L	MW-2A	07/21/2015	ND	4.0000		
Beryllium, total	ug/L	MW-2A	09/22/2015	ND	4.0000		
Beryllium, total	ug/L	MW-2A	04/11/2016	ND	4.0000		
Beryllium, total	ug/L	MW-2A	10/12/2016	ND	4.0000		
Beryllium, total	ug/L	MW-2A	04/13/2017	ND	4.0000		
Beryllium, total	ug/L	MW-2A	10/25/2017	ND	4.0000		
Beryllium, total	ug/L	MW-2A	04/12/2018	ND	4.0000		
Beryllium, total	ug/L	MW-2A	10/16/2018	ND	4.0000		
Beryllium, total	ug/L	MW-2A	04/18/2019	ND	4.0000		
Beryllium, total	ug/L	MW-2A	10/15/2019	ND	4.0000		
Beryllium, total	ug/L	MW-2A	04/06/2020	ND	4.0000		
Beryllium, total	ug/L	MW-2A	10/15/2020	ND	4.0000		
Beryllium, total	ug/L	MW-2A	04/12/2021	ND	4.0000		
Beryllium, total	ug/L	MW-2A	10/06/2021	ND	4.0000		
Beryllium, total	ug/L	MW-2A	04/14/2022	ND	4.0000		
Beryllium, total	ug/L	MW-2A	10/25/2022	ND	4.0000		
Beryllium, total	ug/L	MW-2A	04/19/2023	ND	4.0000		
Beryllium, total	ug/L	MW-2A	10/23/2023	ND	4.0000		
Beryllium, total	ug/L	MW-2A	04/09/2024	ND	4.0000		
Beryllium, total	ug/L	MW-2A	10/13/2025	ND	0.5000		*
Cadmium, total	ug/L	MW-2A	10/15/2014	ND	0.8000		
Cadmium, total	ug/L	MW-2A	01/12/2015	ND	0.8000		
Cadmium, total	ug/L	MW-2A	04/13/2015	ND	0.8000		
Cadmium, total	ug/L	MW-2A	07/21/2015	ND	0.8000		
Cadmium, total	ug/L	MW-2A	09/22/2015	ND	0.8000		
Cadmium, total	ug/L	MW-2A	04/11/2016	ND	0.8000		
Cadmium, total	ug/L	MW-2A	10/12/2016	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-2A	04/13/2017	ND	0.8000		
Cadmium, total	ug/L	MW-2A	10/25/2017	ND	0.8000		
Cadmium, total	ug/L	MW-2A	04/12/2018	ND	0.8000		
Cadmium, total	ug/L	MW-2A	10/16/2018	ND	0.8000		
Cadmium, total	ug/L	MW-2A	04/18/2019	ND	0.8000		
Cadmium, total	ug/L	MW-2A	10/15/2019	ND	0.8000		
Cadmium, total	ug/L	MW-2A	04/06/2020	ND	0.8000		
Cadmium, total	ug/L	MW-2A	10/15/2020	ND	0.8000		
Cadmium, total	ug/L	MW-2A	04/12/2021	ND	0.8000		
Cadmium, total	ug/L	MW-2A	10/06/2021	ND	0.8000		
Cadmium, total	ug/L	MW-2A	04/14/2022	ND	0.8000		
Cadmium, total	ug/L	MW-2A	10/25/2022	ND	0.8000		
Cadmium, total	ug/L	MW-2A	04/19/2023	ND	0.8000		
Cadmium, total	ug/L	MW-2A	10/23/2023	ND	0.8000		
Cadmium, total	ug/L	MW-2A	04/09/2024	ND	0.8000		
Cadmium, total	ug/L	MW-2A	10/13/2025	ND	0.2000		*
Chromium, total	ug/L	MW-2A	10/15/2014	ND	8.0000		
Chromium, total	ug/L	MW-2A	01/12/2015	ND	8.0000		
Chromium, total	ug/L	MW-2A	04/13/2015	ND	8.0000		
Chromium, total	ug/L	MW-2A	07/21/2015	ND	8.0000		
Chromium, total	ug/L	MW-2A	09/22/2015	ND	8.0000		
Chromium, total	ug/L	MW-2A	04/11/2016	ND	8.0000		
Chromium, total	ug/L	MW-2A	10/12/2016	ND	8.0000		
Chromium, total	ug/L	MW-2A	04/13/2017	ND	8.0000		
Chromium, total	ug/L	MW-2A	10/25/2017	ND	8.0000		
Chromium, total	ug/L	MW-2A	04/12/2018	ND	8.0000		
Chromium, total	ug/L	MW-2A	10/16/2018	ND	8.0000		
Chromium, total	ug/L	MW-2A	04/18/2019	ND	8.0000		
Chromium, total	ug/L	MW-2A	10/15/2019	ND	8.0000		
Chromium, total	ug/L	MW-2A	04/06/2020	ND	8.0000		
Chromium, total	ug/L	MW-2A	10/15/2020	ND	8.0000		
Chromium, total	ug/L	MW-2A	04/12/2021	ND	8.0000		
Chromium, total	ug/L	MW-2A	10/06/2021	ND	8.0000		
Chromium, total	ug/L	MW-2A	04/14/2022	ND	8.0000		
Chromium, total	ug/L	MW-2A	10/25/2022	ND	8.0000		
Chromium, total	ug/L	MW-2A	04/19/2023	ND	8.0000		
Chromium, total	ug/L	MW-2A	10/23/2023	ND	8.0000		
Chromium, total	ug/L	MW-2A	04/09/2024	ND	8.0000		
Chromium, total	ug/L	MW-2A	10/13/2025		1.3000		*
Cobalt, total	ug/L	MW-2A	10/15/2014	ND	0.8000		
Cobalt, total	ug/L	MW-2A	01/12/2015		0.9000		
Cobalt, total	ug/L	MW-2A	04/13/2015	ND	0.8000		
Cobalt, total	ug/L	MW-2A	07/21/2015	ND	0.8000		
Cobalt, total	ug/L	MW-2A	09/22/2015	ND	0.8000		
Cobalt, total	ug/L	MW-2A	04/11/2016	ND	0.8000		
Cobalt, total	ug/L	MW-2A	10/12/2016	ND	0.8000		
Cobalt, total	ug/L	MW-2A	04/13/2017	ND	0.8000		
Cobalt, total	ug/L	MW-2A	10/25/2017	ND	0.8000		
Cobalt, total	ug/L	MW-2A	04/12/2018	ND	0.8000		
Cobalt, total	ug/L	MW-2A	10/16/2018	ND	0.8000		
Cobalt, total	ug/L	MW-2A	04/18/2019	ND	0.8000		
Cobalt, total	ug/L	MW-2A	10/15/2019	ND	0.8000		
Cobalt, total	ug/L	MW-2A	04/06/2020	ND	0.4000	0.8000	**
Cobalt, total	ug/L	MW-2A	10/15/2020	ND	0.4000	0.8000	**
Cobalt, total	ug/L	MW-2A	04/12/2021	ND	0.4000	0.8000	**
Cobalt, total	ug/L	MW-2A	10/06/2021	ND	0.4000	0.8000	**
Cobalt, total	ug/L	MW-2A	04/14/2022	ND	0.4000	0.8000	**
Cobalt, total	ug/L	MW-2A	10/25/2022	ND	0.4000	0.8000	**
Cobalt, total	ug/L	MW-2A	04/19/2023	ND	0.4000	0.8000	**
Cobalt, total	ug/L	MW-2A	10/23/2023	ND	0.4000	0.8000	**
Cobalt, total	ug/L	MW-2A	04/09/2024	ND	0.4000	0.8000	**
Cobalt, total	ug/L	MW-2A	10/13/2025	ND	0.5000	0.8000	**
Copper, total	ug/L	MW-2A	10/15/2014	ND	4.0000		
Copper, total	ug/L	MW-2A	01/12/2015	ND	4.0000		
Copper, total	ug/L	MW-2A	04/13/2015	ND	4.0000		
Copper, total	ug/L	MW-2A	07/21/2015	ND	4.0000		
Copper, total	ug/L	MW-2A	09/22/2015	ND	4.0000		
Copper, total	ug/L	MW-2A	04/11/2016		27.3000		*
Copper, total	ug/L	MW-2A	10/12/2016	ND	4.0000		
Copper, total	ug/L	MW-2A	04/13/2017	ND	4.0000		
Copper, total	ug/L	MW-2A	10/25/2017	ND	4.0000		
Copper, total	ug/L	MW-2A	04/12/2018	ND	4.0000		
Copper, total	ug/L	MW-2A	10/16/2018	ND	4.0000		
Copper, total	ug/L	MW-2A	04/18/2019	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	
Copper, total	ug/L	MW-2A	10/15/2019	ND	4.0000		
Copper, total	ug/L	MW-2A	04/06/2020	ND	4.0000		
Copper, total	ug/L	MW-2A	10/15/2020	ND	4.0000		
Copper, total	ug/L	MW-2A	04/12/2021	ND	4.0000		
Copper, total	ug/L	MW-2A	10/06/2021	ND	4.0000		
Copper, total	ug/L	MW-2A	04/14/2022	ND	4.0000		
Copper, total	ug/L	MW-2A	10/25/2022	ND	4.0000		
Copper, total	ug/L	MW-2A	04/19/2023		12.6000		*
Copper, total	ug/L	MW-2A	10/23/2023	ND	4.0000		
Copper, total	ug/L	MW-2A	04/09/2024	ND	4.0000		
Copper, total	ug/L	MW-2A	10/13/2025	ND	5.0000	4.0000	**
Lead, total	ug/L	MW-2A	10/15/2014	ND	4.0000		
Lead, total	ug/L	MW-2A	01/12/2015	ND	4.0000		
Lead, total	ug/L	MW-2A	04/13/2015	ND	4.0000		
Lead, total	ug/L	MW-2A	07/21/2015	ND	4.0000		
Lead, total	ug/L	MW-2A	09/22/2015	ND	4.0000		
Lead, total	ug/L	MW-2A	04/11/2016	ND	4.0000		
Lead, total	ug/L	MW-2A	10/12/2016	ND	4.0000		
Lead, total	ug/L	MW-2A	04/13/2017	ND	4.0000		
Lead, total	ug/L	MW-2A	10/25/2017	ND	4.0000		
Lead, total	ug/L	MW-2A	04/12/2018	ND	4.0000		
Lead, total	ug/L	MW-2A	10/16/2018	ND	4.0000		
Lead, total	ug/L	MW-2A	04/18/2019	ND	4.0000		
Lead, total	ug/L	MW-2A	10/15/2019	ND	4.0000		
Lead, total	ug/L	MW-2A	04/06/2020	ND	4.0000		
Lead, total	ug/L	MW-2A	10/15/2020	ND	4.0000		
Lead, total	ug/L	MW-2A	04/12/2021	ND	4.0000		
Lead, total	ug/L	MW-2A	10/06/2021	ND	4.0000		
Lead, total	ug/L	MW-2A	04/14/2022	ND	4.0000		
Lead, total	ug/L	MW-2A	10/25/2022	ND	4.0000		
Lead, total	ug/L	MW-2A	04/19/2023	ND	4.0000		
Lead, total	ug/L	MW-2A	10/23/2023	ND	4.0000		
Lead, total	ug/L	MW-2A	04/09/2024	ND	4.0000		
Lead, total	ug/L	MW-2A	10/13/2025	ND	1.0000		*
Nickel, total	ug/L	MW-2A	10/15/2014	ND	4.0000		
Nickel, total	ug/L	MW-2A	01/12/2015		4.7000		
Nickel, total	ug/L	MW-2A	04/13/2015	ND	4.0000		
Nickel, total	ug/L	MW-2A	07/21/2015	ND	4.0000		
Nickel, total	ug/L	MW-2A	09/22/2015	ND	4.0000		
Nickel, total	ug/L	MW-2A	04/11/2016	ND	4.0000		
Nickel, total	ug/L	MW-2A	10/12/2016	ND	4.0000		
Nickel, total	ug/L	MW-2A	04/13/2017	ND	4.0000		
Nickel, total	ug/L	MW-2A	10/25/2017		7.1000		
Nickel, total	ug/L	MW-2A	04/12/2018	ND	4.0000		
Nickel, total	ug/L	MW-2A	10/16/2018	ND	4.0000		
Nickel, total	ug/L	MW-2A	04/18/2019	ND	4.0000		
Nickel, total	ug/L	MW-2A	10/15/2019		5.3000		
Nickel, total	ug/L	MW-2A	04/06/2020	ND	4.0000		
Nickel, total	ug/L	MW-2A	10/15/2020	ND	4.0000		
Nickel, total	ug/L	MW-2A	04/12/2021	ND	4.0000		
Nickel, total	ug/L	MW-2A	10/06/2021		4.8000		
Nickel, total	ug/L	MW-2A	04/14/2022	ND	4.0000		
Nickel, total	ug/L	MW-2A	10/25/2022	ND	4.0000		
Nickel, total	ug/L	MW-2A	04/19/2023	ND	4.0000		
Nickel, total	ug/L	MW-2A	10/23/2023	ND	4.0000		
Nickel, total	ug/L	MW-2A	04/09/2024	ND	4.0000		
Nickel, total	ug/L	MW-2A	10/13/2025	ND	5.0000	4.0000	**
Selenium, total	ug/L	MW-2A	10/15/2014	ND	4.0000		
Selenium, total	ug/L	MW-2A	01/12/2015	ND	4.0000		
Selenium, total	ug/L	MW-2A	04/13/2015	ND	4.0000		
Selenium, total	ug/L	MW-2A	07/21/2015	ND	4.0000		
Selenium, total	ug/L	MW-2A	09/22/2015	ND	4.0000		
Selenium, total	ug/L	MW-2A	04/11/2016	ND	4.0000		
Selenium, total	ug/L	MW-2A	10/12/2016	ND	4.0000		
Selenium, total	ug/L	MW-2A	04/13/2017	ND	4.0000		
Selenium, total	ug/L	MW-2A	10/25/2017	ND	4.0000		
Selenium, total	ug/L	MW-2A	04/12/2018	ND	4.0000		
Selenium, total	ug/L	MW-2A	10/16/2018	ND	4.0000		
Selenium, total	ug/L	MW-2A	04/18/2019	ND	4.0000		
Selenium, total	ug/L	MW-2A	10/15/2019	ND	4.0000		
Selenium, total	ug/L	MW-2A	04/06/2020	ND	4.0000		
Selenium, total	ug/L	MW-2A	10/15/2020	ND	4.0000		
Selenium, total	ug/L	MW-2A	04/12/2021	ND	4.0000		
Selenium, total	ug/L	MW-2A	10/06/2021	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	
Selenium, total	ug/L	MW-2A	04/14/2022	ND	4.0000		
Selenium, total	ug/L	MW-2A	10/25/2022	ND	4.0000		
Selenium, total	ug/L	MW-2A	04/19/2023	ND	4.0000		
Selenium, total	ug/L	MW-2A	10/23/2023	ND	4.0000		
Selenium, total	ug/L	MW-2A	04/09/2024	ND	4.0000		
Selenium, total	ug/L	MW-2A	10/13/2025	ND	2.0000	4.0000	**
Silver, total	ug/L	MW-2A	10/15/2014	ND	4.0000		
Silver, total	ug/L	MW-2A	01/12/2015	ND	4.0000		
Silver, total	ug/L	MW-2A	04/13/2015	ND	4.0000		
Silver, total	ug/L	MW-2A	07/21/2015	ND	4.0000		
Silver, total	ug/L	MW-2A	09/22/2015	ND	4.0000		
Silver, total	ug/L	MW-2A	04/11/2016	ND	4.0000		
Silver, total	ug/L	MW-2A	10/12/2016	ND	4.0000		
Silver, total	ug/L	MW-2A	04/13/2017	ND	4.0000		
Silver, total	ug/L	MW-2A	10/25/2017	ND	4.0000		
Silver, total	ug/L	MW-2A	04/12/2018	ND	4.0000		
Silver, total	ug/L	MW-2A	10/16/2018	ND	4.0000		
Silver, total	ug/L	MW-2A	04/18/2019	ND	4.0000		
Silver, total	ug/L	MW-2A	10/15/2019	ND	4.0000		
Silver, total	ug/L	MW-2A	04/06/2020	ND	4.0000		
Silver, total	ug/L	MW-2A	10/15/2020	ND	4.0000		
Silver, total	ug/L	MW-2A	04/12/2021	ND	4.0000		
Silver, total	ug/L	MW-2A	10/06/2021	ND	4.0000		
Silver, total	ug/L	MW-2A	04/14/2022	ND	4.0000		
Silver, total	ug/L	MW-2A	10/25/2022	ND	4.0000		
Silver, total	ug/L	MW-2A	04/19/2023	ND	4.0000		
Silver, total	ug/L	MW-2A	10/23/2023	ND	4.0000		
Silver, total	ug/L	MW-2A	04/09/2024	ND	4.0000		
Silver, total	ug/L	MW-2A	10/13/2025	ND	5.0000	4.0000	**
Thallium, total	ug/L	MW-2A	10/15/2014	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-2A	01/12/2015	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-2A	04/13/2015	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-2A	07/21/2015	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-2A	09/22/2015	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-2A	04/11/2016	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-2A	10/12/2016	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-2A	04/13/2017	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-2A	10/25/2017	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-2A	04/12/2018	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-2A	10/16/2018	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW-2A	04/18/2019	ND	2.0000		
Thallium, total	ug/L	MW-2A	10/15/2019	ND	2.0000		
Thallium, total	ug/L	MW-2A	04/06/2020	ND	2.0000		
Thallium, total	ug/L	MW-2A	10/15/2020	ND	2.0000		
Thallium, total	ug/L	MW-2A	04/12/2021	ND	2.0000		
Thallium, total	ug/L	MW-2A	10/06/2021	ND	2.0000		
Thallium, total	ug/L	MW-2A	04/14/2022	ND	2.0000		
Thallium, total	ug/L	MW-2A	10/25/2022	ND	2.0000		
Thallium, total	ug/L	MW-2A	04/19/2023	ND	2.0000		
Thallium, total	ug/L	MW-2A	10/23/2023	ND	2.0000		
Thallium, total	ug/L	MW-2A	04/09/2024	ND	2.0000		
Thallium, total	ug/L	MW-2A	10/13/2025	ND	0.5000		*
Vanadium, total	ug/L	MW-2A	10/15/2014	ND	20.0000		
Vanadium, total	ug/L	MW-2A	01/12/2015	ND	20.0000		
Vanadium, total	ug/L	MW-2A	04/13/2015	ND	20.0000		
Vanadium, total	ug/L	MW-2A	07/21/2015	ND	20.0000		
Vanadium, total	ug/L	MW-2A	09/22/2015	ND	20.0000		
Vanadium, total	ug/L	MW-2A	04/11/2016	ND	20.0000		
Vanadium, total	ug/L	MW-2A	10/12/2016	ND	20.0000		
Vanadium, total	ug/L	MW-2A	04/13/2017	ND	20.0000		
Vanadium, total	ug/L	MW-2A	10/25/2017	ND	20.0000		
Vanadium, total	ug/L	MW-2A	04/12/2018	ND	20.0000		
Vanadium, total	ug/L	MW-2A	10/16/2018	ND	20.0000		
Vanadium, total	ug/L	MW-2A	04/18/2019	ND	20.0000		
Vanadium, total	ug/L	MW-2A	10/15/2019	ND	20.0000		
Vanadium, total	ug/L	MW-2A	04/06/2020	ND	20.0000		
Vanadium, total	ug/L	MW-2A	10/15/2020	ND	20.0000		
Vanadium, total	ug/L	MW-2A	04/12/2021	ND	20.0000		
Vanadium, total	ug/L	MW-2A	10/06/2021	ND	20.0000		
Vanadium, total	ug/L	MW-2A	04/14/2022	ND	20.0000		
Vanadium, total	ug/L	MW-2A	10/25/2022	ND	20.0000		
Vanadium, total	ug/L	MW-2A	04/19/2023	ND	20.0000		
Vanadium, total	ug/L	MW-2A	10/23/2023	ND	20.0000		
Vanadium, total	ug/L	MW-2A	04/09/2024	ND	20.0000		

* - Outlier for that well and constituent.

** - ND value replaced with median RL.

*** - ND value replaced with manual RL.

ND = Not detected, Result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Vanadium, total	ug/L	MW-2A	10/13/2025	ND	2.0000		*
Zinc, total	ug/L	MW-2A	10/15/2014		21.0000		
Zinc, total	ug/L	MW-2A	01/12/2015		10.0000		
Zinc, total	ug/L	MW-2A	04/13/2015	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-2A	07/21/2015	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-2A	09/22/2015	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-2A	04/11/2016	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-2A	10/12/2016	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-2A	04/13/2017	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-2A	10/25/2017	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-2A	04/12/2018	ND	20.0000		
Zinc, total	ug/L	MW-2A	10/16/2018	ND	20.0000		
Zinc, total	ug/L	MW-2A	04/18/2019	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW-2A	10/15/2019	ND	20.0000		
Zinc, total	ug/L	MW-2A	04/06/2020	ND	20.0000		
Zinc, total	ug/L	MW-2A	10/15/2020	ND	20.0000		
Zinc, total	ug/L	MW-2A	04/12/2021	ND	20.0000		
Zinc, total	ug/L	MW-2A	10/06/2021	ND	20.0000		
Zinc, total	ug/L	MW-2A	04/14/2022	ND	20.0000		
Zinc, total	ug/L	MW-2A	10/25/2022	ND	20.0000		
Zinc, total	ug/L	MW-2A	04/19/2023	ND	20.0000		
Zinc, total	ug/L	MW-2A	10/23/2023	ND	20.0000		
Zinc, total	ug/L	MW-2A	04/09/2024	ND	20.0000		
Zinc, total	ug/L	MW-2A	10/13/2025		15.6000		

* - 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-105B	10/13/2025	ND	1.0000		2.0000
Arsenic, total	ug/L	MW-105B	10/13/2025	ND	2.0000		4.0000
Barium, total	ug/L	MW-105B	10/13/2025		115.0000		546.8183
Beryllium, total	ug/L	MW-105B	10/13/2025	ND	0.5000		4.0000
Cadmium, total	ug/L	MW-105B	10/13/2025		0.2000		0.8000
Chromium, total	ug/L	MW-105B	10/13/2025		1.0000		8.0000
Cobalt, total	ug/L	MW-105B	10/13/2025	ND	0.5000		0.9000
Copper, total	ug/L	MW-105B	10/13/2025	ND	5.0000		8.4000
Lead, total	ug/L	MW-105B	10/13/2025	ND	1.0000		4.0000
Nickel, total	ug/L	MW-105B	10/13/2025	ND	5.0000		7.1000
Selenium, total	ug/L	MW-105B	10/13/2025	ND	2.0000		4.0000
Silver, total	ug/L	MW-105B	10/13/2025	ND	5.0000		4.0000
Thallium, total	ug/L	MW-105B	10/13/2025	ND	0.5000		2.0000
Vanadium, total	ug/L	MW-105B	10/13/2025	ND	2.0000		20.0000
Zinc, total	ug/L	MW-105B	10/13/2025		6.9000		21.0000
Antimony, total	ug/L	MW-108A	10/13/2025		1.0000		2.0000
Arsenic, total	ug/L	MW-108A	10/13/2025		14.4000	***	4.0000
Barium, total	ug/L	MW-108A	10/13/2025		47.6000		546.8183
Beryllium, total	ug/L	MW-108A	10/13/2025	ND	0.5000		4.0000
Cadmium, total	ug/L	MW-108A	10/13/2025		3.4000	*	0.8000
Chromium, total	ug/L	MW-108A	10/13/2025		1.0000		8.0000
Cobalt, total	ug/L	MW-108A	10/13/2025		134.0000	***	0.9000
Copper, total	ug/L	MW-108A	10/13/2025	ND	5.0000		8.4000
Lead, total	ug/L	MW-108A	10/13/2025	ND	1.0000		4.0000
Nickel, total	ug/L	MW-108A	10/13/2025		28.5000	***	7.1000
Selenium, total	ug/L	MW-108A	10/13/2025	ND	2.0000		4.0000
Silver, total	ug/L	MW-108A	10/13/2025	ND	5.0000		4.0000
Thallium, total	ug/L	MW-108A	10/13/2025	ND	0.5000		2.0000
Vanadium, total	ug/L	MW-108A	10/13/2025		4.5000		20.0000
Zinc, total	ug/L	MW-108A	10/13/2025		16.4000	**	21.0000
Antimony, total	ug/L	MW-110A	10/13/2025	ND	1.0000		2.0000
Arsenic, total	ug/L	MW-110A	10/13/2025		172.0000	***	4.0000
Barium, total	ug/L	MW-110A	10/13/2025		817.0000	*	546.8183
Beryllium, total	ug/L	MW-110A	10/13/2025	ND	0.5000		4.0000
Cadmium, total	ug/L	MW-110A	10/13/2025		0.6000		0.8000
Chromium, total	ug/L	MW-110A	10/13/2025		1.0000		8.0000
Cobalt, total	ug/L	MW-110A	10/13/2025		30.3000	***	0.9000
Copper, total	ug/L	MW-110A	10/13/2025	ND	5.0000		8.4000
Lead, total	ug/L	MW-110A	10/13/2025		1.5000		4.0000
Nickel, total	ug/L	MW-110A	10/13/2025		6.9000	**	7.1000
Selenium, total	ug/L	MW-110A	10/13/2025	ND	2.0000		4.0000
Silver, total	ug/L	MW-110A	10/13/2025	ND	5.0000		4.0000
Thallium, total	ug/L	MW-110A	10/13/2025	ND	0.5000		2.0000
Vanadium, total	ug/L	MW-110A	10/13/2025		2.4000		20.0000
Zinc, total	ug/L	MW-110A	10/13/2025		19.8000	**	21.0000
Antimony, total	ug/L	MW-3	10/13/2025	ND	1.0000		2.0000
Arsenic, total	ug/L	MW-3	10/13/2025	ND	2.0000		4.0000
Barium, total	ug/L	MW-3	10/13/2025		60.5000		546.8183
Beryllium, total	ug/L	MW-3	10/13/2025	ND	0.5000		4.0000
Cadmium, total	ug/L	MW-3	10/13/2025		0.5000		0.8000
Chromium, total	ug/L	MW-3	10/13/2025		1.1000		8.0000
Cobalt, total	ug/L	MW-3	10/13/2025	ND	0.5000		0.9000
Copper, total	ug/L	MW-3	10/13/2025	ND	5.0000		8.4000
Lead, total	ug/L	MW-3	10/13/2025	ND	1.0000		4.0000
Nickel, total	ug/L	MW-3	10/13/2025	ND	5.0000		7.1000
Selenium, total	ug/L	MW-3	10/13/2025	ND	2.0000		4.0000
Silver, total	ug/L	MW-3	10/13/2025	ND	5.0000		4.0000
Thallium, total	ug/L	MW-3	10/13/2025	ND	0.5000		2.0000
Vanadium, total	ug/L	MW-3	10/13/2025	ND	2.0000		20.0000
Zinc, total	ug/L	MW-3	10/13/2025		6.3000		21.0000
Antimony, total	ug/L	MW-4	10/13/2025	ND	1.0000		2.0000
Arsenic, total	ug/L	MW-4	10/13/2025	ND	2.0000		4.0000
Barium, total	ug/L	MW-4	10/13/2025		144.0000		546.8183
Beryllium, total	ug/L	MW-4	10/13/2025	ND	0.5000		4.0000
Cadmium, total	ug/L	MW-4	10/13/2025	ND	0.2000		0.8000
Chromium, total	ug/L	MW-4	10/13/2025		1.2000		8.0000
Cobalt, total	ug/L	MW-4	10/13/2025		0.8000		0.9000
Copper, total	ug/L	MW-4	10/13/2025	ND	5.0000		8.4000
Lead, total	ug/L	MW-4	10/13/2025	ND	1.0000		4.0000
Nickel, total	ug/L	MW-4	10/13/2025	ND	5.0000		7.1000
Selenium, total	ug/L	MW-4	10/13/2025	ND	2.0000		4.0000
Silver, total	ug/L	MW-4	10/13/2025	ND	5.0000		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-4	10/13/2025	ND	0.5000		2.0000
Vanadium, total	ug/L	MW-4	10/13/2025		2.9000		20.0000
Zinc, total	ug/L	MW-4	10/13/2025		6.0000		21.0000

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

Table 3

Detection Frequencies in Upgradient and Downgradient Wells

Constituent	Detect	Upgradient N	Proportion	Detect	Downgradient N	Proportion
Antimony, total	1	46	0.022	1	135	0.007
Arsenic, total	0	46	0.000	105	197	0.533
Barium, total	46	46	1.000	221	221	1.000
Beryllium, total	0	44	0.000	0	135	0.000
Cadmium, total	0	43	0.000	21	148	0.142
Chromium, total	0	44	0.000	22	171	0.129
Cobalt, total	1	46	0.022	162	229	0.707
Copper, total	1	44	0.023	47	181	0.260
Lead, total	0	44	0.000	23	159	0.145
Nickel, total	4	46	0.087	134	223	0.601
Selenium, total	0	46	0.000	0	135	0.000
Silver, total	0	46	0.000	0	135	0.000
Thallium, total	0	44	0.000	0	135	0.000
Vanadium, total	0	44	0.000	18	159	0.113
Zinc, total	3	46	0.065	95	222	0.428

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	1	46	0.022									nonpar
Arsenic, total	0	46	0.000									nonpar
Barium, total	46	46	1.000	0.075	0.759					2.326	normal	normal
Beryllium, total	0	44	0.000									nonpar
Cadmium, total	0	43	0.000									nonpar
Chromium, total	0	44	0.000									nonpar
Cobalt, total	1	46	0.022									nonpar
Copper, total	1	44	0.023									nonpar
Lead, total	0	44	0.000									nonpar
Nickel, total	4	46	0.087	1.215	0.965					2.326	normal	nonpar
Selenium, total	0	46	0.000									nonpar
Silver, total	0	46	0.000									nonpar
Thallium, total	0	44	0.000									nonpar
Vanadium, total	0	44	0.000									nonpar
Zinc, total	3	46	0.065	2.017	0.776					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	1	46					2.0000	nonpar	***	0.99
Arsenic, total	ug/L	0	46					4.0000	nonpar	***	0.99
Barium, total	ug/L	46	46	195.1696	144.2296	0.0100	2.4381	546.8183	normal		
Beryllium, total	ug/L	0	44					4.0000	nonpar	***	0.99
Cadmium, total	ug/L	0	43					0.8000	nonpar	***	0.99
Chromium, total	ug/L	0	44					8.0000	nonpar	***	0.99
Cobalt, total	ug/L	1	46					0.9000	nonpar		0.99
Copper, total	ug/L	1	44					8.4000	nonpar		0.99
Lead, total	ug/L	0	44					4.0000	nonpar	***	0.99
Nickel, total	ug/L	4	46					7.1000	nonpar		0.99
Selenium, total	ug/L	0	46					4.0000	nonpar	***	0.99
Silver, total	ug/L	0	46					4.0000	nonpar	***	0.99
Thallium, total	ug/L	0	44					2.0000	nonpar	***	0.99
Vanadium, total	ug/L	0	44					20.0000	nonpar	***	0.99
Zinc, total	ug/L	3	46					21.0000	nonpar		0.99

Conf = confidence level for passing initial test or one verification resample at all downgradient wells for a single constituent (nonparametric test only).

* - Insufficient Data.

** - Calculated limit raised to Manual Reporting Limit.

*** - Nonparametric limit based on ND value.

For transformed data, mean and SD in transformed units and prediction limit in original units.

All sample sizes and statistics are based on outlier free data.

For nonparametric limits, median reporting limits are substituted for extreme reporting limit values.

Table 6

**Dixon's Test Outliers
1% Significance Level**

Constituent	Units	Well	Date	Result	ND Qualifier	Date Range	N	Critical Value
Beryllium, total	ug/L	MW-1	10/13/2025	0.5000	< 0.5000	10/15/2014-10/13/2025	23	0.5065
Cadmium, total	ug/L	MW-1	10/13/2025	0.2000	< 0.2000	10/15/2014-10/13/2025	22	0.5162
Chromium, total	ug/L	MW-1	10/13/2025	1.0000		10/15/2014-10/13/2025	23	0.5065
Lead, total	ug/L	MW-1	10/13/2025	1.0000	< 1.0000	10/15/2014-10/13/2025	23	0.5065
Thallium, total	ug/L	MW-1	10/13/2025	0.5000	< 0.5000	10/15/2014-10/13/2025	23	0.5065
Vanadium, total	ug/L	MW-1	10/13/2025	2.0000	< 2.0000	10/15/2014-10/13/2025	23	0.5065
Beryllium, total	ug/L	MW-2A	10/13/2025	0.5000	< 0.5000	10/15/2014-10/13/2025	23	0.5065
Cadmium, total	ug/L	MW-2A	10/13/2025	0.2000	< 0.2000	10/15/2014-10/13/2025	23	0.5065
Chromium, total	ug/L	MW-2A	10/13/2025	1.3000		10/15/2014-10/13/2025	23	0.5065
Copper, total	ug/L	MW-2A	04/11/2016	27.3000		10/15/2014-10/13/2025	23	0.5162
Copper, total	ug/L	MW-2A	04/19/2023	12.6000		10/15/2014-10/13/2025	23	0.5162
Lead, total	ug/L	MW-2A	10/13/2025	1.0000	< 1.0000	10/15/2014-10/13/2025	23	0.5065
Thallium, total	ug/L	MW-2A	10/13/2025	0.5000	< 0.5000	10/15/2014-10/13/2025	23	0.5065
Vanadium, total	ug/L	MW-2A	10/13/2025	2.0000	< 2.0000	10/15/2014-10/13/2025	23	0.5065

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-108A	09/01/2005		8.0000 *	4.0000
Arsenic, total	ug/L	MW-108A	04/01/2006		8.0000 *	4.0000
Arsenic, total	ug/L	MW-108A	09/01/2006		11.0000 *	4.0000
Arsenic, total	ug/L	MW-108A	04/01/2007		8.0000 *	4.0000
Arsenic, total	ug/L	MW-108A	09/01/2007		21.0000 *	4.0000
Arsenic, total	ug/L	MW-108A	04/01/2008		8.0000 *	4.0000
Arsenic, total	ug/L	MW-108A	10/01/2008		14.7000 *	4.0000
Arsenic, total	ug/L	MW-108A	04/04/2009		11.0500 *	4.0000
Arsenic, total	ug/L	MW-108A	06/09/2009		23.6000 *	4.0000
Arsenic, total	ug/L	MW-108A	07/09/2009		21.0000 *	4.0000
Arsenic, total	ug/L	MW-108A	10/09/2009		28.8500 *	4.0000
Arsenic, total	ug/L	MW-108A	04/10/2010		17.3000 *	4.0000
Arsenic, total	ug/L	MW-108A	04/13/2010		17.3000 *	4.0000
Arsenic, total	ug/L	MW-108A	06/10/2010		22.2000 *	4.0000
Arsenic, total	ug/L	MW-108A	06/29/2010		22.2000 *	4.0000
Arsenic, total	ug/L	MW-108A	09/10/2010		34.1000 *	4.0000
Arsenic, total	ug/L	MW-108A	09/27/2010		34.1000 *	4.0000
Arsenic, total	ug/L	MW-108A	04/01/2011		23.9000 *	4.0000
Arsenic, total	ug/L	MW-108A	04/11/2011		23.9000 *	4.0000
Arsenic, total	ug/L	MW-108A	09/01/2011		32.9000 *	4.0000
Arsenic, total	ug/L	MW-108A	04/09/2012		32.2000 *	4.0000
Arsenic, total	ug/L	MW-108A	09/10/2012		23.6000 *	4.0000
Arsenic, total	ug/L	MW-108A	04/15/2013		26.3000 *	4.0000
Arsenic, total	ug/L	MW-108A	10/07/2013		28.8000 *	4.0000
Arsenic, total	ug/L	MW-108A	04/17/2014		28.4000 *	4.0000
Arsenic, total	ug/L	MW-108A	10/15/2014		24.4000 *	4.0000
Arsenic, total	ug/L	MW-108A	04/13/2015		16.8000 *	4.0000
Arsenic, total	ug/L	MW-108A	09/22/2015		20.1000 *	4.0000
Arsenic, total	ug/L	MW-108A	04/11/2016		18.6000 *	4.0000
Arsenic, total	ug/L	MW-108A	10/12/2016		27.9000 *	4.0000
Arsenic, total	ug/L	MW-108A	04/13/2017		17.1000 *	4.0000
Arsenic, total	ug/L	MW-108A	10/25/2017		7.9000 *	4.0000
Arsenic, total	ug/L	MW-108A	04/12/2018		10.7000 *	4.0000
Arsenic, total	ug/L	MW-108A	10/16/2018		17.5000 *	4.0000
Arsenic, total	ug/L	MW-108A	04/18/2019		16.5000 *	4.0000
Arsenic, total	ug/L	MW-108A	10/15/2019		11.6000 *	4.0000
Arsenic, total	ug/L	MW-108A	04/06/2020		6.4000 *	4.0000
Arsenic, total	ug/L	MW-108A	10/15/2020		21.5000 *	4.0000
Arsenic, total	ug/L	MW-108A	04/12/2021	ND	4.0000	4.0000
Arsenic, total	ug/L	MW-108A	10/06/2021		4.1000 *	4.0000
Arsenic, total	ug/L	MW-108A	04/14/2022		9.0000 *	4.0000
Arsenic, total	ug/L	MW-108A	10/25/2022		12.4000 *	4.0000
Arsenic, total	ug/L	MW-108A	04/19/2023	ND	4.0000	4.0000
Arsenic, total	ug/L	MW-108A	10/23/2023		14.1000 *	4.0000
Arsenic, total	ug/L	MW-108A	04/09/2024		9.4000 *	4.0000
Arsenic, total	ug/L	MW-108A	10/13/2025		14.4000 *	4.0000
Cadmium, total	ug/L	MW-108A	04/04/2009	ND	1.0000	0.8000
Cadmium, total	ug/L	MW-108A	04/09/2012	ND	0.8000	0.8000
Cadmium, total	ug/L	MW-108A	09/10/2012	ND	0.8000	0.8000
Cadmium, total	ug/L	MW-108A	04/15/2013	ND	0.8000	0.8000
Cadmium, total	ug/L	MW-108A	10/07/2013	ND	0.8000	0.8000
Cadmium, total	ug/L	MW-108A	04/17/2014	ND	0.8000	0.8000
Cadmium, total	ug/L	MW-108A	10/15/2014	ND	0.8000	0.8000
Cadmium, total	ug/L	MW-108A	04/13/2015	ND	0.8000	0.8000
Cadmium, total	ug/L	MW-108A	09/22/2015	ND	0.8000	0.8000
Cadmium, total	ug/L	MW-108A	04/11/2016	ND	0.8000	0.8000
Cadmium, total	ug/L	MW-108A	10/12/2016	ND	0.8000	0.8000
Cadmium, total	ug/L	MW-108A	04/13/2017	ND	0.8000	0.8000
Cadmium, total	ug/L	MW-108A	10/25/2017	ND	0.8000	0.8000
Cadmium, total	ug/L	MW-108A	04/12/2018	ND	0.8000	0.8000
Cadmium, total	ug/L	MW-108A	10/16/2018	ND	0.8000	0.8000
Cadmium, total	ug/L	MW-108A	04/18/2019	ND	0.8000	0.8000
Cadmium, total	ug/L	MW-108A	10/15/2019	ND	0.8000	0.8000
Cadmium, total	ug/L	MW-108A	04/06/2020	ND	0.8000	0.8000
Cadmium, total	ug/L	MW-108A	10/15/2020	ND	0.8000	0.8000
Cadmium, total	ug/L	MW-108A	04/12/2021	ND	0.8000	0.8000
Cadmium, total	ug/L	MW-108A	10/06/2021		2.0000 *	0.8000
Cadmium, total	ug/L	MW-108A	04/14/2022		3.4000 *	0.8000
Cadmium, total	ug/L	MW-108A	10/25/2022	ND	0.8000	0.8000
Cadmium, total	ug/L	MW-108A	04/19/2023	ND	0.8000	0.8000
Cadmium, total	ug/L	MW-108A	10/23/2023		1.5000 *	0.8000

* - 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
Cadmium, total	ug/L	MW-108A	04/09/2024	ND	0.8000	0.8000
Cadmium, total	ug/L	MW-108A	10/13/2025		3.4000 *	0.8000
Cobalt, total	ug/L	MW-108A	09/01/2005		17.0000 *	0.9000
Cobalt, total	ug/L	MW-108A	04/01/2006		17.0000 *	0.9000
Cobalt, total	ug/L	MW-108A	09/01/2006		19.0000 *	0.9000
Cobalt, total	ug/L	MW-108A	04/01/2007		25.0000 *	0.9000
Cobalt, total	ug/L	MW-108A	09/01/2007		64.0000 *	0.9000
Cobalt, total	ug/L	MW-108A	04/01/2008		28.0000 *	0.9000
Cobalt, total	ug/L	MW-108A	10/01/2008		21.1000 *	0.9000
Cobalt, total	ug/L	MW-108A	04/04/2009		34.9000 *	0.9000
Cobalt, total	ug/L	MW-108A	06/09/2009		114.0000 *	0.9000
Cobalt, total	ug/L	MW-108A	07/09/2009		71.0000 *	0.9000
Cobalt, total	ug/L	MW-108A	10/09/2009		86.0000 *	0.9000
Cobalt, total	ug/L	MW-108A	04/10/2010		43.8000 *	0.9000
Cobalt, total	ug/L	MW-108A	04/13/2010		43.8000 *	0.9000
Cobalt, total	ug/L	MW-108A	06/10/2010		68.5000 *	0.9000
Cobalt, total	ug/L	MW-108A	06/29/2010		68.5000 *	0.9000
Cobalt, total	ug/L	MW-108A	09/10/2010		53.4000 *	0.9000
Cobalt, total	ug/L	MW-108A	09/27/2010		53.4000 *	0.9000
Cobalt, total	ug/L	MW-108A	04/01/2011		71.1000 *	0.9000
Cobalt, total	ug/L	MW-108A	04/11/2011		71.1000 *	0.9000
Cobalt, total	ug/L	MW-108A	09/01/2011		63.6000 *	0.9000
Cobalt, total	ug/L	MW-108A	04/09/2012		92.2000 *	0.9000
Cobalt, total	ug/L	MW-108A	09/10/2012		29.5000 *	0.9000
Cobalt, total	ug/L	MW-108A	04/15/2013		123.0000 *	0.9000
Cobalt, total	ug/L	MW-108A	10/07/2013		29.7000 *	0.9000
Cobalt, total	ug/L	MW-108A	04/17/2014		83.7000 *	0.9000
Cobalt, total	ug/L	MW-108A	10/15/2014		3.9000 *	0.9000
Cobalt, total	ug/L	MW-108A	04/13/2015		17.5000 *	0.9000
Cobalt, total	ug/L	MW-108A	09/22/2015		5.3000 *	0.9000
Cobalt, total	ug/L	MW-108A	04/11/2016		5.2000 *	0.9000
Cobalt, total	ug/L	MW-108A	10/12/2016		2.9000 *	0.9000
Cobalt, total	ug/L	MW-108A	04/13/2017	ND	0.8000	0.9000
Cobalt, total	ug/L	MW-108A	10/25/2017		149.0000 *	0.9000
Cobalt, total	ug/L	MW-108A	01/12/2018	ND	0.8000	0.9000
Cobalt, total	ug/L	MW-108A	04/12/2018		1.1000 *	0.9000
Cobalt, total	ug/L	MW-108A	10/16/2018	ND	0.8000	0.9000
Cobalt, total	ug/L	MW-108A	04/18/2019	ND	0.8000	0.9000
Cobalt, total	ug/L	MW-108A	10/15/2019	ND	0.8000	0.9000
Cobalt, total	ug/L	MW-108A	04/06/2020	ND	0.4000	0.9000
Cobalt, total	ug/L	MW-108A	10/15/2020	ND	0.4000	0.9000
Cobalt, total	ug/L	MW-108A	04/12/2021		9.1000 *	0.9000
Cobalt, total	ug/L	MW-108A	10/06/2021		173.0000 *	0.9000
Cobalt, total	ug/L	MW-108A	04/14/2022		56.6000 *	0.9000
Cobalt, total	ug/L	MW-108A	10/25/2022		1.9000 *	0.9000
Cobalt, total	ug/L	MW-108A	04/19/2023		8.4000 *	0.9000
Cobalt, total	ug/L	MW-108A	10/23/2023		586.0000 *	0.9000
Cobalt, total	ug/L	MW-108A	04/09/2024		27.6000 *	0.9000
Cobalt, total	ug/L	MW-108A	10/13/2025		134.0000 *	0.9000
Nickel, total	ug/L	MW-108A	09/01/2005		9.0000 *	7.1000
Nickel, total	ug/L	MW-108A	04/01/2006		6.0000 *	7.1000
Nickel, total	ug/L	MW-108A	09/01/2006		10.0000 *	7.1000
Nickel, total	ug/L	MW-108A	04/01/2007		12.0000 *	7.1000
Nickel, total	ug/L	MW-108A	09/01/2007		59.0000 *	7.1000
Nickel, total	ug/L	MW-108A	04/01/2008		22.0000 *	7.1000
Nickel, total	ug/L	MW-108A	10/01/2008		19.1000 *	7.1000
Nickel, total	ug/L	MW-108A	04/04/2009		22.3000 *	7.1000
Nickel, total	ug/L	MW-108A	06/09/2009		79.4000 *	7.1000
Nickel, total	ug/L	MW-108A	07/09/2009		39.0000 *	7.1000
Nickel, total	ug/L	MW-108A	10/09/2009		59.7000 *	7.1000
Nickel, total	ug/L	MW-108A	04/10/2010		19.4000 *	7.1000
Nickel, total	ug/L	MW-108A	04/13/2010		19.4000 *	7.1000
Nickel, total	ug/L	MW-108A	06/10/2010		34.2000 *	7.1000
Nickel, total	ug/L	MW-108A	06/29/2010		34.2000 *	7.1000
Nickel, total	ug/L	MW-108A	09/10/2010		22.2000 *	7.1000
Nickel, total	ug/L	MW-108A	09/27/2010		22.2000 *	7.1000
Nickel, total	ug/L	MW-108A	04/01/2011		31.3000 *	7.1000
Nickel, total	ug/L	MW-108A	04/11/2011		31.3000 *	7.1000
Nickel, total	ug/L	MW-108A	09/01/2011		27.0000 *	7.1000
Nickel, total	ug/L	MW-108A	04/09/2012		52.2000 *	7.1000
Nickel, total	ug/L	MW-108A	09/10/2012		31.4000 *	7.1000

* - 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-108A	04/15/2013		88.4000 *	7.1000
Nickel, total	ug/L	MW-108A	10/07/2013		16.3000 *	7.1000
Nickel, total	ug/L	MW-108A	04/17/2014		34.1000 *	7.1000
Nickel, total	ug/L	MW-108A	10/15/2014		6.5000	7.1000
Nickel, total	ug/L	MW-108A	04/13/2015		10.6000 *	7.1000
Nickel, total	ug/L	MW-108A	09/22/2015		8.7000 *	7.1000
Nickel, total	ug/L	MW-108A	04/11/2016	ND	4.0000	7.1000
Nickel, total	ug/L	MW-108A	10/12/2016		5.2000	7.1000
Nickel, total	ug/L	MW-108A	04/13/2017	ND	4.0000	7.1000
Nickel, total	ug/L	MW-108A	10/25/2017		39.7000 *	7.1000
Nickel, total	ug/L	MW-108A	01/12/2018	ND	4.0000	7.1000
Nickel, total	ug/L	MW-108A	04/12/2018	ND	4.0000	7.1000
Nickel, total	ug/L	MW-108A	10/16/2018	ND	4.0000	7.1000
Nickel, total	ug/L	MW-108A	04/18/2019	ND	4.0000	7.1000
Nickel, total	ug/L	MW-108A	10/15/2019	ND	4.0000	7.1000
Nickel, total	ug/L	MW-108A	04/06/2020	ND	4.0000	7.1000
Nickel, total	ug/L	MW-108A	10/15/2020	ND	4.0000	7.1000
Nickel, total	ug/L	MW-108A	04/12/2021		7.6000 *	7.1000
Nickel, total	ug/L	MW-108A	10/06/2021		46.9000 *	7.1000
Nickel, total	ug/L	MW-108A	04/14/2022		77.7000 *	7.1000
Nickel, total	ug/L	MW-108A	10/25/2022	ND	4.0000	7.1000
Nickel, total	ug/L	MW-108A	04/19/2023		34.6000 *	7.1000
Nickel, total	ug/L	MW-108A	10/23/2023		292.0000 *	7.1000
Nickel, total	ug/L	MW-108A	04/09/2024		55.6000 *	7.1000
Nickel, total	ug/L	MW-108A	10/13/2025		28.5000 *	7.1000
Zinc, total	ug/L	MW-108A	09/01/2005		11.0000	21.0000
Zinc, total	ug/L	MW-108A	04/01/2006	ND	10.0000	21.0000
Zinc, total	ug/L	MW-108A	09/01/2006		12.0000	21.0000
Zinc, total	ug/L	MW-108A	04/01/2007		12.0000	21.0000
Zinc, total	ug/L	MW-108A	09/01/2007		26.0000 *	21.0000
Zinc, total	ug/L	MW-108A	04/01/2008	ND	10.0000	21.0000
Zinc, total	ug/L	MW-108A	10/01/2008	ND	10.0000	21.0000
Zinc, total	ug/L	MW-108A	04/04/2009		11.1000	21.0000
Zinc, total	ug/L	MW-108A	06/09/2009		84.9000 *	21.0000
Zinc, total	ug/L	MW-108A	07/09/2009		44.0000 *	21.0000
Zinc, total	ug/L	MW-108A	10/09/2009		48.0500 *	21.0000
Zinc, total	ug/L	MW-108A	04/10/2010	ND	10.0000	21.0000
Zinc, total	ug/L	MW-108A	04/13/2010	ND	10.0000	21.0000
Zinc, total	ug/L	MW-108A	06/10/2010		15.5000	21.0000
Zinc, total	ug/L	MW-108A	06/29/2010		15.5000	21.0000
Zinc, total	ug/L	MW-108A	09/10/2010		11.5000	21.0000
Zinc, total	ug/L	MW-108A	09/27/2010		11.5000	21.0000
Zinc, total	ug/L	MW-108A	04/01/2011	ND	8.0000	21.0000
Zinc, total	ug/L	MW-108A	04/11/2011	ND	8.0000	21.0000
Zinc, total	ug/L	MW-108A	09/01/2011	ND	8.0000	21.0000
Zinc, total	ug/L	MW-108A	04/09/2012		9.0000	21.0000
Zinc, total	ug/L	MW-108A	09/10/2012		20.0000	21.0000
Zinc, total	ug/L	MW-108A	04/15/2013		30.6000 *	21.0000
Zinc, total	ug/L	MW-108A	10/07/2013	ND	20.0000	21.0000
Zinc, total	ug/L	MW-108A	04/17/2014	ND	8.0000	21.0000
Zinc, total	ug/L	MW-108A	10/15/2014	ND	20.0000	21.0000
Zinc, total	ug/L	MW-108A	04/13/2015	ND	8.0000	21.0000
Zinc, total	ug/L	MW-108A	09/22/2015	ND	8.0000	21.0000
Zinc, total	ug/L	MW-108A	04/11/2016	ND	8.0000	21.0000
Zinc, total	ug/L	MW-108A	10/12/2016	ND	8.0000	21.0000
Zinc, total	ug/L	MW-108A	04/13/2017	ND	8.0000	21.0000
Zinc, total	ug/L	MW-108A	10/25/2017		9.0000	21.0000
Zinc, total	ug/L	MW-108A	04/12/2018	ND	20.0000	21.0000
Zinc, total	ug/L	MW-108A	10/16/2018	ND	20.0000	21.0000
Zinc, total	ug/L	MW-108A	04/18/2019	ND	8.0000	21.0000
Zinc, total	ug/L	MW-108A	10/15/2019	ND	20.0000	21.0000
Zinc, total	ug/L	MW-108A	04/06/2020	ND	20.0000	21.0000
Zinc, total	ug/L	MW-108A	10/15/2020	ND	20.0000	21.0000
Zinc, total	ug/L	MW-108A	04/12/2021	ND	20.0000	21.0000
Zinc, total	ug/L	MW-108A	10/06/2021		61.4000 *	21.0000
Zinc, total	ug/L	MW-108A	04/14/2022		35.7000 *	21.0000
Zinc, total	ug/L	MW-108A	10/25/2022	ND	20.0000	21.0000
Zinc, total	ug/L	MW-108A	04/19/2023	ND	20.0000	21.0000
Zinc, total	ug/L	MW-108A	10/23/2023		28.1000 *	21.0000
Zinc, total	ug/L	MW-108A	04/09/2024		21.1000 *	21.0000
Zinc, total	ug/L	MW-108A	10/13/2025		16.4000	21.0000

* - 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-110A	09/01/2005	ND	8.0000 *	4.0000
Arsenic, total	ug/L	MW-110A	04/01/2006		6.0000 *	4.0000
Arsenic, total	ug/L	MW-110A	09/01/2006		11.0000 *	4.0000
Arsenic, total	ug/L	MW-110A	04/01/2007		11.0000 *	4.0000
Arsenic, total	ug/L	MW-110A	09/01/2007		18.0000 *	4.0000
Arsenic, total	ug/L	MW-110A	04/01/2008		12.0000 *	4.0000
Arsenic, total	ug/L	MW-110A	10/01/2008		16.4000 *	4.0000
Arsenic, total	ug/L	MW-110A	04/04/2009		17.9000 *	4.0000
Arsenic, total	ug/L	MW-110A	06/09/2009		20.0000	4.0000
Arsenic, total	ug/L	MW-110A	07/09/2009		22.0000 *	4.0000
Arsenic, total	ug/L	MW-110A	10/09/2009		34.4500 *	4.0000
Arsenic, total	ug/L	MW-110A	04/10/2010		16.6000 *	4.0000
Arsenic, total	ug/L	MW-110A	04/13/2010		16.6000 *	4.0000
Arsenic, total	ug/L	MW-110A	06/10/2010		24.6000 *	4.0000
Arsenic, total	ug/L	MW-110A	06/29/2010		24.6000 *	4.0000
Arsenic, total	ug/L	MW-110A	09/10/2010		22.5000 *	4.0000
Arsenic, total	ug/L	MW-110A	09/27/2010		22.5000 *	4.0000
Arsenic, total	ug/L	MW-110A	04/01/2011		10.2000 *	4.0000
Arsenic, total	ug/L	MW-110A	04/11/2011		10.2000 *	4.0000
Arsenic, total	ug/L	MW-110A	09/01/2011		27.4000 *	4.0000
Arsenic, total	ug/L	MW-110A	04/09/2012		18.7000 *	4.0000
Arsenic, total	ug/L	MW-110A	09/10/2012		19.2000 *	4.0000
Arsenic, total	ug/L	MW-110A	04/15/2013		22.0000 *	4.0000
Arsenic, total	ug/L	MW-110A	10/07/2013		8.9000 *	4.0000
Arsenic, total	ug/L	MW-110A	04/17/2014		23.7000 *	4.0000
Arsenic, total	ug/L	MW-110A	10/15/2014		35.5000 *	4.0000
Arsenic, total	ug/L	MW-110A	04/13/2015		29.9000 *	4.0000
Arsenic, total	ug/L	MW-110A	09/22/2015		33.8000 *	4.0000
Arsenic, total	ug/L	MW-110A	04/11/2016		24.4000 *	4.0000
Arsenic, total	ug/L	MW-110A	10/12/2016		44.8000 *	4.0000
Arsenic, total	ug/L	MW-110A	04/13/2017		33.3000 *	4.0000
Arsenic, total	ug/L	MW-110A	10/25/2017		37.6000 *	4.0000
Arsenic, total	ug/L	MW-110A	04/12/2018		36.3000 *	4.0000
Arsenic, total	ug/L	MW-110A	10/16/2018		50.2000 *	4.0000
Arsenic, total	ug/L	MW-110A	04/18/2019		21.8000 *	4.0000
Arsenic, total	ug/L	MW-110A	10/15/2019		54.2000 *	4.0000
Arsenic, total	ug/L	MW-110A	04/06/2020		44.7000 *	4.0000
Arsenic, total	ug/L	MW-110A	10/15/2020		53.1000 *	4.0000
Arsenic, total	ug/L	MW-110A	04/12/2021		43.8000 *	4.0000
Arsenic, total	ug/L	MW-110A	10/06/2021		42.2000 *	4.0000
Arsenic, total	ug/L	MW-110A	04/14/2022		19.5000 *	4.0000
Arsenic, total	ug/L	MW-110A	10/25/2022		67.1000 *	4.0000
Arsenic, total	ug/L	MW-110A	04/19/2023		18.7000 *	4.0000
Arsenic, total	ug/L	MW-110A	10/23/2023		57.6000 *	4.0000
Arsenic, total	ug/L	MW-110A	04/09/2024		7.0000 *	4.0000
Arsenic, total	ug/L	MW-110A	10/13/2025		172.0000 *	4.0000
Barium, total	ug/L	MW-110A	09/01/2005		234.0000	546.8183
Barium, total	ug/L	MW-110A	04/01/2006		186.0000	546.8183
Barium, total	ug/L	MW-110A	09/01/2006		265.0000	546.8183
Barium, total	ug/L	MW-110A	04/01/2007		277.0000	546.8183
Barium, total	ug/L	MW-110A	09/01/2007		323.0000	546.8183
Barium, total	ug/L	MW-110A	04/01/2008		425.0000	546.8183
Barium, total	ug/L	MW-110A	10/01/2008		399.0000	546.8183
Barium, total	ug/L	MW-110A	04/04/2009		391.0000	546.8183
Barium, total	ug/L	MW-110A	06/09/2009		952.0000 *	546.8183
Barium, total	ug/L	MW-110A	07/09/2009		671.0000 *	546.8183
Barium, total	ug/L	MW-110A	10/09/2009		795.0000 *	546.8183
Barium, total	ug/L	MW-110A	04/10/2010		501.0000	546.8183
Barium, total	ug/L	MW-110A	04/13/2010		501.0000	546.8183
Barium, total	ug/L	MW-110A	06/10/2010		438.0000	546.8183
Barium, total	ug/L	MW-110A	06/29/2010		438.0000	546.8183
Barium, total	ug/L	MW-110A	09/10/2010		359.0000	546.8183
Barium, total	ug/L	MW-110A	09/27/2010		359.0000	546.8183
Barium, total	ug/L	MW-110A	04/01/2011		405.0000	546.8183
Barium, total	ug/L	MW-110A	04/11/2011		405.0000	546.8183
Barium, total	ug/L	MW-110A	09/01/2011		417.0000	546.8183
Barium, total	ug/L	MW-110A	04/09/2012		515.0000	546.8183
Barium, total	ug/L	MW-110A	09/10/2012		452.0000	546.8183
Barium, total	ug/L	MW-110A	04/15/2013		477.0000	546.8183
Barium, total	ug/L	MW-110A	10/07/2013		538.0000	546.8183
Barium, total	ug/L	MW-110A	04/17/2014		969.0000 *	546.8183

* - Significantly increased over background.

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Table 8

**Historical Downgradient Data for Constituent-Well Combinations
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Constituent	Units	Well	Date		Result	Pred. Limit
Barium, total	ug/L	MW-110A	10/15/2014		1780.0000 *	546.8183
Barium, total	ug/L	MW-110A	04/13/2015		1000.0000 *	546.8183
Barium, total	ug/L	MW-110A	09/22/2015		829.0000 *	546.8183
Barium, total	ug/L	MW-110A	04/11/2016		639.0000 *	546.8183
Barium, total	ug/L	MW-110A	10/12/2016		748.0000 *	546.8183
Barium, total	ug/L	MW-110A	04/13/2017		890.0000 *	546.8183
Barium, total	ug/L	MW-110A	10/25/2017		784.0000 *	546.8183
Barium, total	ug/L	MW-110A	04/12/2018		733.0000 *	546.8183
Barium, total	ug/L	MW-110A	10/16/2018		650.0000 *	546.8183
Barium, total	ug/L	MW-110A	04/18/2019		551.0000 *	546.8183
Barium, total	ug/L	MW-110A	10/15/2019		803.0000 *	546.8183
Barium, total	ug/L	MW-110A	04/06/2020		816.0000 *	546.8183
Barium, total	ug/L	MW-110A	10/15/2020		701.0000 *	546.8183
Barium, total	ug/L	MW-110A	04/12/2021		713.0000 *	546.8183
Barium, total	ug/L	MW-110A	10/06/2021		714.0000 *	546.8183
Barium, total	ug/L	MW-110A	04/14/2022		520.0000 *	546.8183
Barium, total	ug/L	MW-110A	10/25/2022		675.0000 *	546.8183
Barium, total	ug/L	MW-110A	04/19/2023		537.0000 *	546.8183
Barium, total	ug/L	MW-110A	10/23/2023		842.0000 *	546.8183
Barium, total	ug/L	MW-110A	04/09/2024		199.0000 *	546.8183
Barium, total	ug/L	MW-110A	10/13/2025		817.0000 *	546.8183
Cobalt, total	ug/L	MW-110A	09/01/2005		64.0000 *	0.9000
Cobalt, total	ug/L	MW-110A	04/01/2006		68.0000 *	0.9000
Cobalt, total	ug/L	MW-110A	09/01/2006		118.0000 *	0.9000
Cobalt, total	ug/L	MW-110A	04/01/2007		98.0000 *	0.9000
Cobalt, total	ug/L	MW-110A	09/01/2007		21.0000 *	0.9000
Cobalt, total	ug/L	MW-110A	04/01/2008		70.0000 *	0.9000
Cobalt, total	ug/L	MW-110A	10/01/2008		62.5000 *	0.9000
Cobalt, total	ug/L	MW-110A	04/04/2009		82.3000 *	0.9000
Cobalt, total	ug/L	MW-110A	06/09/2009		89.9000 *	0.9000
Cobalt, total	ug/L	MW-110A	07/09/2009		60.0000 *	0.9000
Cobalt, total	ug/L	MW-110A	10/09/2009		52.0500 *	0.9000
Cobalt, total	ug/L	MW-110A	04/10/2010		95.5000 *	0.9000
Cobalt, total	ug/L	MW-110A	04/13/2010		95.5000 *	0.9000
Cobalt, total	ug/L	MW-110A	06/10/2010		116.0000 *	0.9000
Cobalt, total	ug/L	MW-110A	06/29/2010		116.0000 *	0.9000
Cobalt, total	ug/L	MW-110A	09/10/2010		52.6000 *	0.9000
Cobalt, total	ug/L	MW-110A	09/27/2010		52.6000 *	0.9000
Cobalt, total	ug/L	MW-110A	04/01/2011		84.4000 *	0.9000
Cobalt, total	ug/L	MW-110A	04/11/2011		84.4000 *	0.9000
Cobalt, total	ug/L	MW-110A	09/01/2011		26.4000 *	0.9000
Cobalt, total	ug/L	MW-110A	04/09/2012		60.5000 *	0.9000
Cobalt, total	ug/L	MW-110A	09/10/2012		25.3000 *	0.9000
Cobalt, total	ug/L	MW-110A	04/15/2013		67.1000 *	0.9000
Cobalt, total	ug/L	MW-110A	10/07/2013		6.8000 *	0.9000
Cobalt, total	ug/L	MW-110A	04/17/2014		40.1000 *	0.9000
Cobalt, total	ug/L	MW-110A	10/15/2014		5.4000 *	0.9000
Cobalt, total	ug/L	MW-110A	04/13/2015		10.3000 *	0.9000
Cobalt, total	ug/L	MW-110A	09/22/2015		1.3000 *	0.9000
Cobalt, total	ug/L	MW-110A	04/11/2016		13.3000 *	0.9000
Cobalt, total	ug/L	MW-110A	10/12/2016		12.5000 *	0.9000
Cobalt, total	ug/L	MW-110A	04/13/2017		10.8000 *	0.9000
Cobalt, total	ug/L	MW-110A	10/25/2017		7.7000 *	0.9000
Cobalt, total	ug/L	MW-110A	04/12/2018		18.5000 *	0.9000
Cobalt, total	ug/L	MW-110A	10/16/2018		19.8000 *	0.9000
Cobalt, total	ug/L	MW-110A	04/18/2019		23.7000 *	0.9000
Cobalt, total	ug/L	MW-110A	10/15/2019		4.3000 *	0.9000
Cobalt, total	ug/L	MW-110A	04/06/2020		39.3000 *	0.9000
Cobalt, total	ug/L	MW-110A	10/15/2020		4.8000 *	0.9000
Cobalt, total	ug/L	MW-110A	04/12/2021		11.2000 *	0.9000
Cobalt, total	ug/L	MW-110A	10/06/2021		12.3000 *	0.9000
Cobalt, total	ug/L	MW-110A	04/14/2022		191.0000 *	0.9000
Cobalt, total	ug/L	MW-110A	10/25/2022		6.5000 *	0.9000
Cobalt, total	ug/L	MW-110A	04/19/2023		91.4000 *	0.9000
Cobalt, total	ug/L	MW-110A	10/23/2023		18.0000 *	0.9000
Cobalt, total	ug/L	MW-110A	04/09/2024		1460.0000 *	0.9000
Cobalt, total	ug/L	MW-110A	10/13/2025		30.3000 *	0.9000
Nickel, total	ug/L	MW-110A	09/01/2005		27.0000 *	7.1000
Nickel, total	ug/L	MW-110A	04/01/2006		31.0000 *	7.1000
Nickel, total	ug/L	MW-110A	09/01/2006		37.0000 *	7.1000
Nickel, total	ug/L	MW-110A	04/01/2007		24.0000 *	7.1000

* - 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-110A	09/01/2007		12.0000 *	7.1000
Nickel, total	ug/L	MW-110A	04/01/2008		14.0000 *	7.1000
Nickel, total	ug/L	MW-110A	10/01/2008		19.9000 *	7.1000
Nickel, total	ug/L	MW-110A	04/04/2009		19.1000 *	7.1000
Nickel, total	ug/L	MW-110A	06/09/2009		48.3000 *	7.1000
Nickel, total	ug/L	MW-110A	07/09/2009		32.0000 *	7.1000
Nickel, total	ug/L	MW-110A	10/09/2009		44.4500 *	7.1000
Nickel, total	ug/L	MW-110A	04/10/2010		21.0000 *	7.1000
Nickel, total	ug/L	MW-110A	04/13/2010		21.0000 *	7.1000
Nickel, total	ug/L	MW-110A	06/10/2010		19.2000 *	7.1000
Nickel, total	ug/L	MW-110A	06/29/2010		19.2000 *	7.1000
Nickel, total	ug/L	MW-110A	09/10/2010		9.1000 *	7.1000
Nickel, total	ug/L	MW-110A	09/27/2010		9.1000 *	7.1000
Nickel, total	ug/L	MW-110A	04/01/2011		19.1000 *	7.1000
Nickel, total	ug/L	MW-110A	04/11/2011		19.1000 *	7.1000
Nickel, total	ug/L	MW-110A	09/01/2011		8.5000 *	7.1000
Nickel, total	ug/L	MW-110A	04/09/2012		13.9000 *	7.1000
Nickel, total	ug/L	MW-110A	09/10/2012		7.6000 *	7.1000
Nickel, total	ug/L	MW-110A	04/15/2013		10.8000 *	7.1000
Nickel, total	ug/L	MW-110A	10/07/2013	ND	4.0000	7.1000
Nickel, total	ug/L	MW-110A	04/17/2014		5.0000	7.1000
Nickel, total	ug/L	MW-110A	10/15/2014	ND	4.0000	7.1000
Nickel, total	ug/L	MW-110A	04/13/2015	ND	4.0000	7.1000
Nickel, total	ug/L	MW-110A	09/22/2015	ND	4.0000	7.1000
Nickel, total	ug/L	MW-110A	04/11/2016	ND	4.0000	7.1000
Nickel, total	ug/L	MW-110A	10/12/2016	ND	4.0000	7.1000
Nickel, total	ug/L	MW-110A	04/13/2017	ND	4.0000	7.1000
Nickel, total	ug/L	MW-110A	10/25/2017	ND	4.0000	7.1000
Nickel, total	ug/L	MW-110A	04/12/2018	ND	4.0000	7.1000
Nickel, total	ug/L	MW-110A	10/16/2018	ND	4.0000	7.1000
Nickel, total	ug/L	MW-110A	04/18/2019	ND	4.0000	7.1000
Nickel, total	ug/L	MW-110A	10/15/2019	ND	4.0000	7.1000
Nickel, total	ug/L	MW-110A	04/06/2020	ND	4.0000	7.1000
Nickel, total	ug/L	MW-110A	10/15/2020	ND	4.0000	7.1000
Nickel, total	ug/L	MW-110A	04/12/2021	ND	4.0000	7.1000
Nickel, total	ug/L	MW-110A	10/06/2021	ND	4.0000	7.1000
Nickel, total	ug/L	MW-110A	04/14/2022		55.9000 *	7.1000
Nickel, total	ug/L	MW-110A	10/25/2022	ND	4.0000	7.1000
Nickel, total	ug/L	MW-110A	04/19/2023		21.2000 *	7.1000
Nickel, total	ug/L	MW-110A	10/23/2023		9.0000 *	7.1000
Nickel, total	ug/L	MW-110A	04/09/2024		456.0000 *	7.1000
Nickel, total	ug/L	MW-110A	10/13/2025		6.9000	7.1000
Zinc, total	ug/L	MW-110A	09/01/2005		20.0000	21.0000
Zinc, total	ug/L	MW-110A	04/01/2006	ND	10.0000	21.0000
Zinc, total	ug/L	MW-110A	09/01/2006		23.0000 *	21.0000
Zinc, total	ug/L	MW-110A	04/01/2007		24.0000 *	21.0000
Zinc, total	ug/L	MW-110A	09/01/2007		47.0000 *	21.0000
Zinc, total	ug/L	MW-110A	04/01/2008		14.0000	21.0000
Zinc, total	ug/L	MW-110A	10/01/2008		24.2000 *	21.0000
Zinc, total	ug/L	MW-110A	04/04/2009		39.3000 *	21.0000
Zinc, total	ug/L	MW-110A	06/09/2009		311.0000 *	21.0000
Zinc, total	ug/L	MW-110A	07/09/2009		142.0000 *	21.0000
Zinc, total	ug/L	MW-110A	10/09/2009		160.5000 *	21.0000
Zinc, total	ug/L	MW-110A	04/10/2010		25.1000 *	21.0000
Zinc, total	ug/L	MW-110A	04/13/2010		25.1000 *	21.0000
Zinc, total	ug/L	MW-110A	06/10/2010		51.2000 *	21.0000
Zinc, total	ug/L	MW-110A	06/29/2010		51.2000 *	21.0000
Zinc, total	ug/L	MW-110A	09/10/2010	ND	10.0000	21.0000
Zinc, total	ug/L	MW-110A	09/27/2010	ND	10.0000	21.0000
Zinc, total	ug/L	MW-110A	04/01/2011	ND	8.0000	21.0000
Zinc, total	ug/L	MW-110A	04/11/2011	ND	8.0000	21.0000
Zinc, total	ug/L	MW-110A	09/01/2011	ND	8.0000	21.0000
Zinc, total	ug/L	MW-110A	04/09/2012		22.4000 *	21.0000
Zinc, total	ug/L	MW-110A	09/10/2012		47.5000 *	21.0000
Zinc, total	ug/L	MW-110A	04/15/2013		38.0000 *	21.0000
Zinc, total	ug/L	MW-110A	10/07/2013	ND	20.0000	21.0000
Zinc, total	ug/L	MW-110A	04/17/2014		14.0000	21.0000
Zinc, total	ug/L	MW-110A	10/15/2014	ND	20.0000	21.0000
Zinc, total	ug/L	MW-110A	04/13/2015		10.3000	21.0000
Zinc, total	ug/L	MW-110A	09/22/2015	ND	8.0000	21.0000
Zinc, total	ug/L	MW-110A	04/11/2016	ND	8.0000	21.0000

* - 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
Zinc, total	ug/L	MW-110A	10/12/2016		11.2000	21.0000
Zinc, total	ug/L	MW-110A	04/13/2017	ND	8.0000	21.0000
Zinc, total	ug/L	MW-110A	10/25/2017	ND	8.0000	21.0000
Zinc, total	ug/L	MW-110A	04/12/2018	ND	20.0000	21.0000
Zinc, total	ug/L	MW-110A	10/16/2018	ND	20.0000	21.0000
Zinc, total	ug/L	MW-110A	04/18/2019	ND	8.0000	21.0000
Zinc, total	ug/L	MW-110A	10/15/2019	ND	20.0000	21.0000
Zinc, total	ug/L	MW-110A	04/06/2020	ND	20.0000	21.0000
Zinc, total	ug/L	MW-110A	10/15/2020	ND	20.0000	21.0000
Zinc, total	ug/L	MW-110A	04/12/2021	ND	20.0000	21.0000
Zinc, total	ug/L	MW-110A	10/06/2021	ND	20.0000	21.0000
Zinc, total	ug/L	MW-110A	04/14/2022	ND	20.0000	21.0000
Zinc, total	ug/L	MW-110A	10/25/2022	ND	20.0000	21.0000
Zinc, total	ug/L	MW-110A	04/19/2023	ND	20.0000	21.0000
Zinc, total	ug/L	MW-110A	10/23/2023		31.5000 *	21.0000
Zinc, total	ug/L	MW-110A	04/09/2024		21.4000 *	21.0000
Zinc, total	ug/L	MW-110A	10/13/2025		19.8000	21.0000

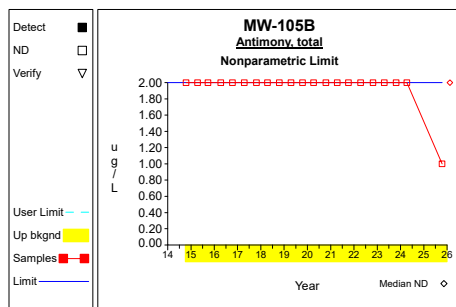
* - Significantly increased over background.

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

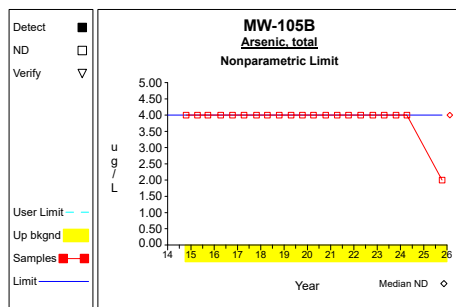
*** - Manual exclusion.

ND = Not Detected, Result = detection limit.

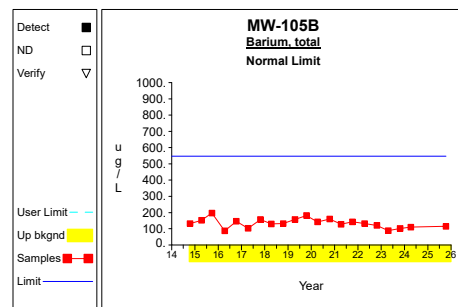
Up vs. Down Prediction Limits



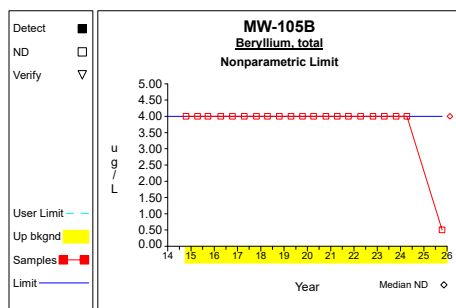
Graph 1



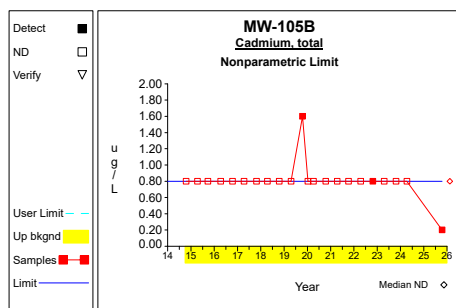
Graph 2



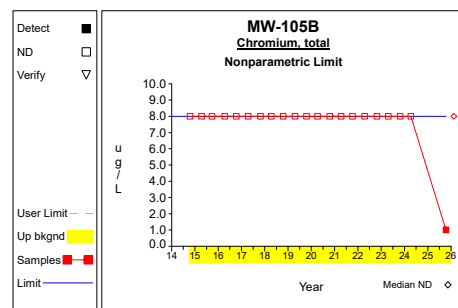
Graph 3



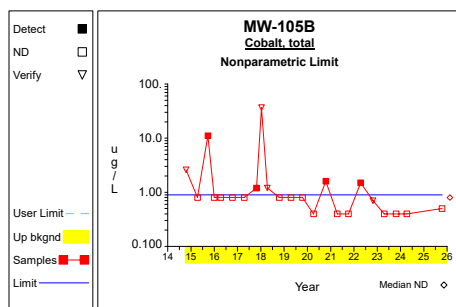
Graph 4



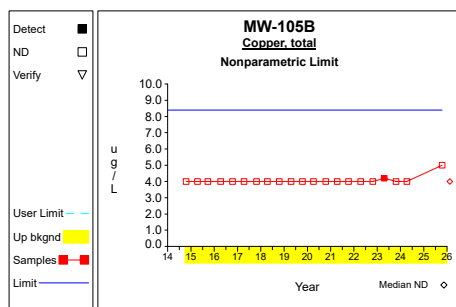
Graph 5



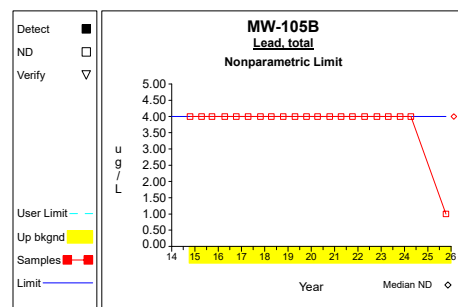
Graph 6



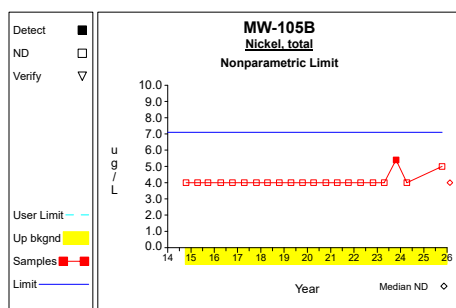
Graph 7



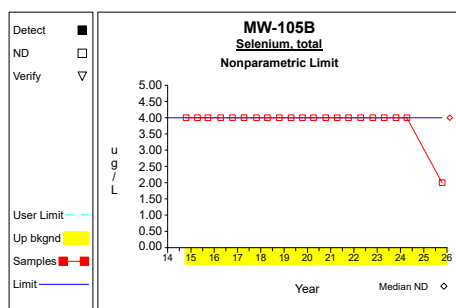
Graph 8



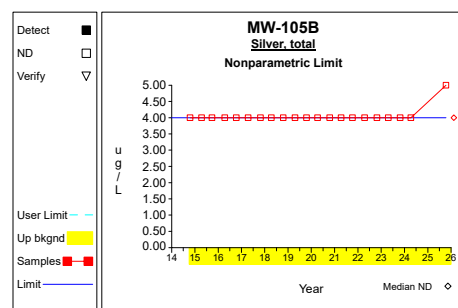
Graph 9



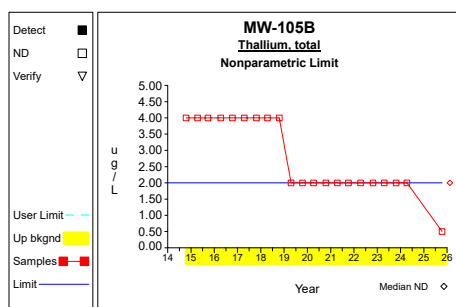
Graph 10



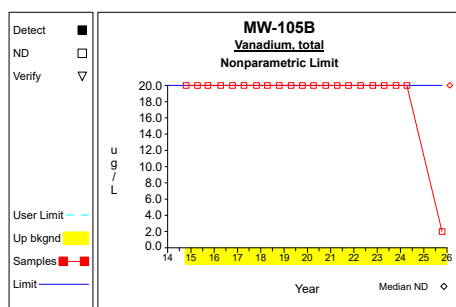
Graph 11



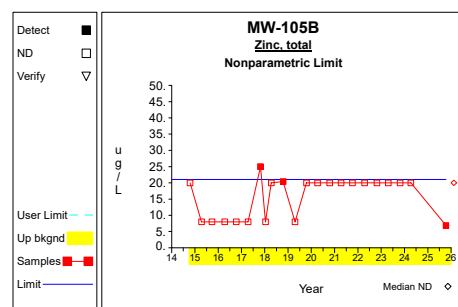
Graph 12



Graph 13

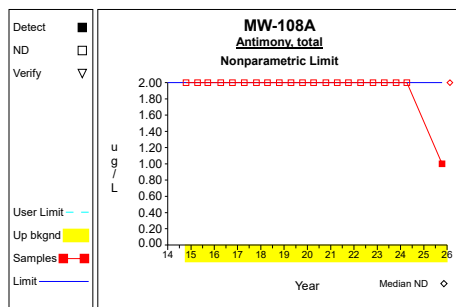


Graph 14

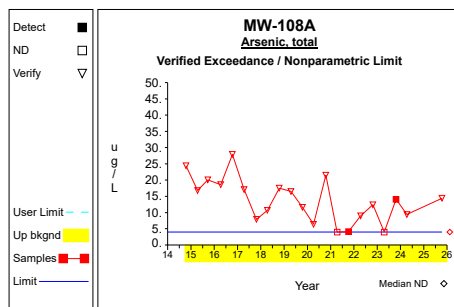


Graph 15

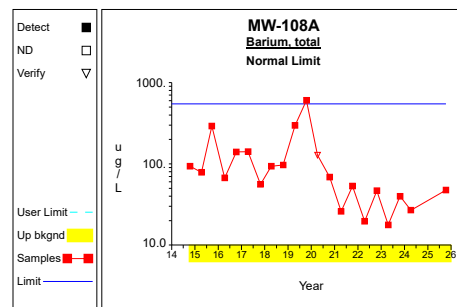
Up vs. Down Prediction Limits



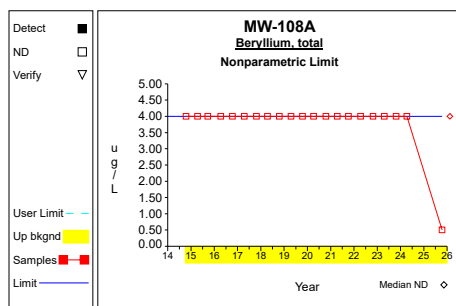
Graph 16



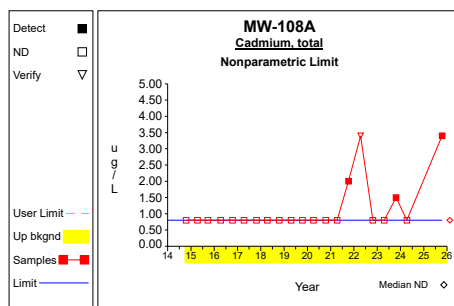
Graph 17



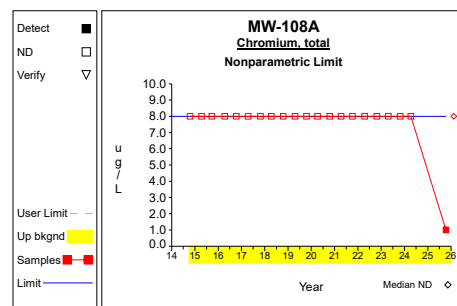
Graph 18



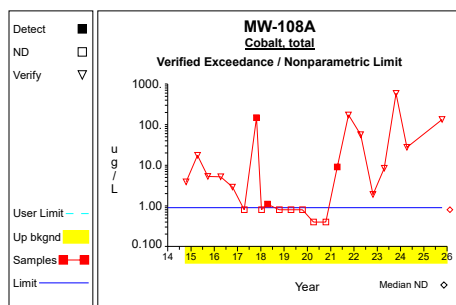
Graph 19



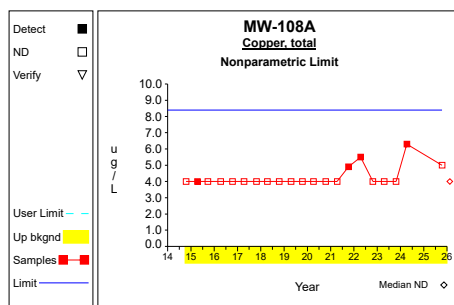
Graph 20



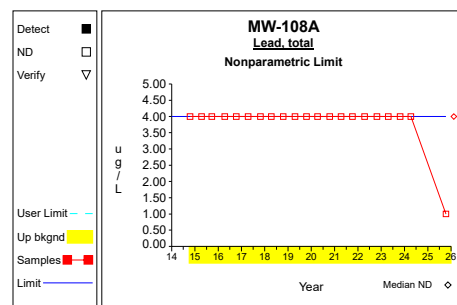
Graph 21



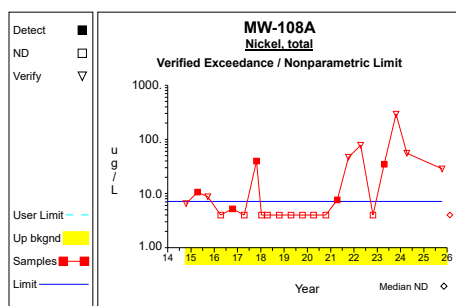
Graph 22



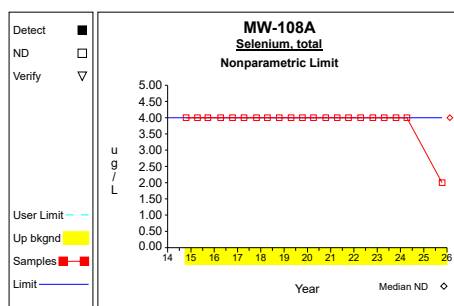
Graph 23



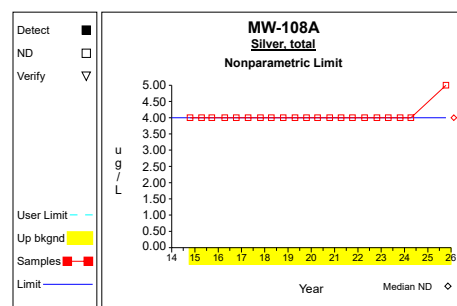
Graph 24



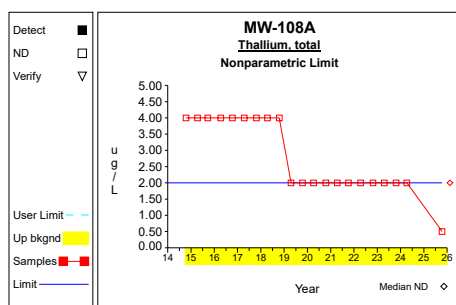
Graph 25



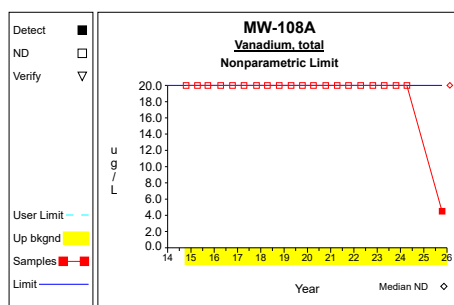
Graph 26



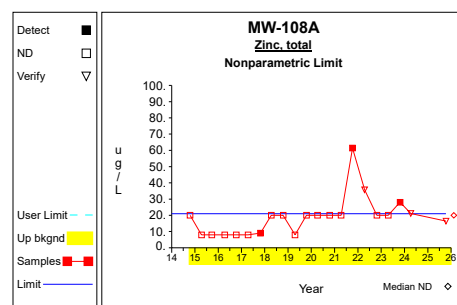
Graph 27



Graph 28

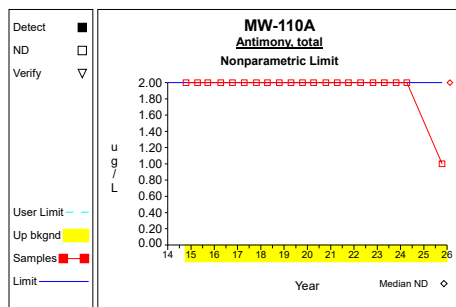


Graph 29

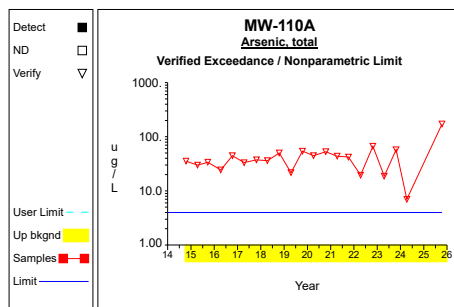


Graph 30

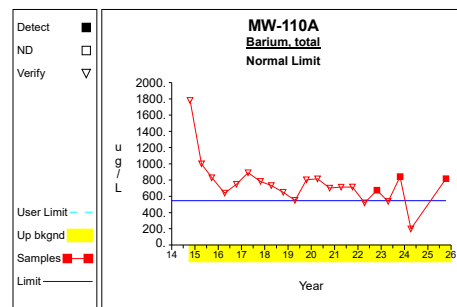
Up vs. Down Prediction Limits



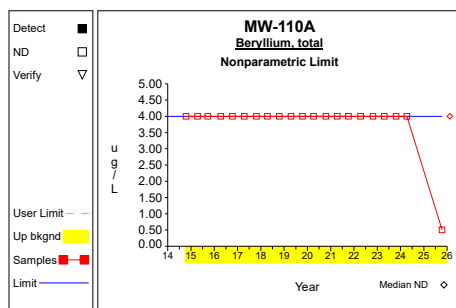
Graph 31



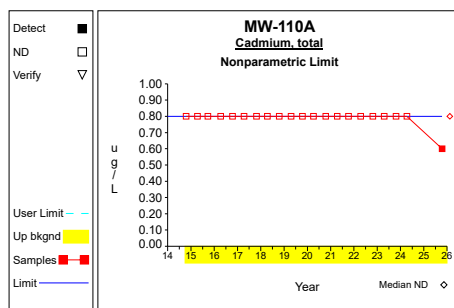
Graph 32



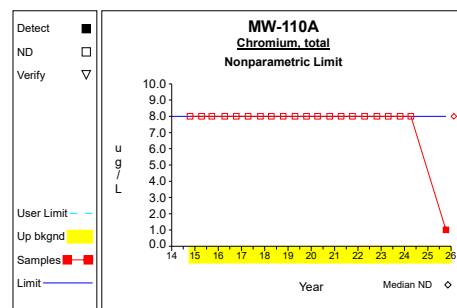
Graph 33



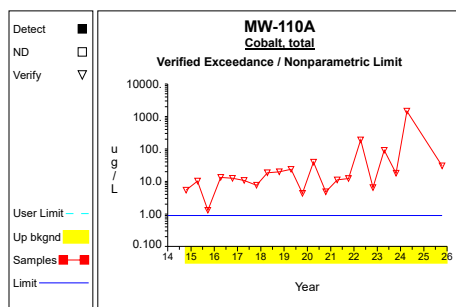
Graph 34



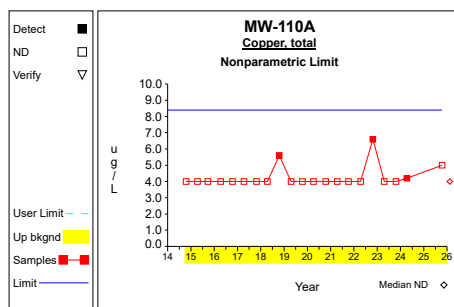
Graph 35



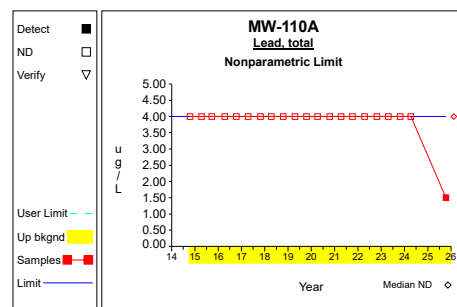
Graph 36



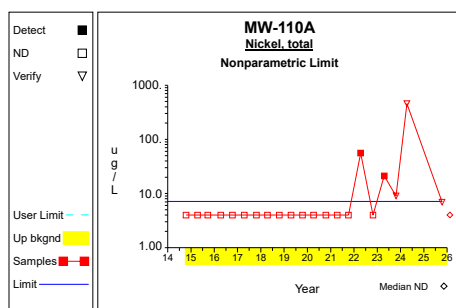
Graph 37



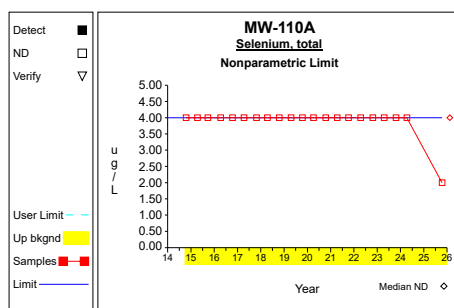
Graph 38



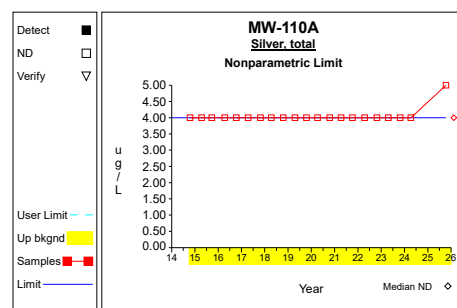
Graph 39



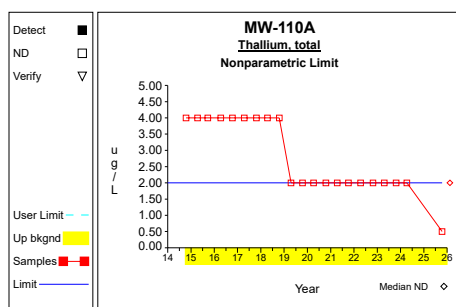
Graph 40



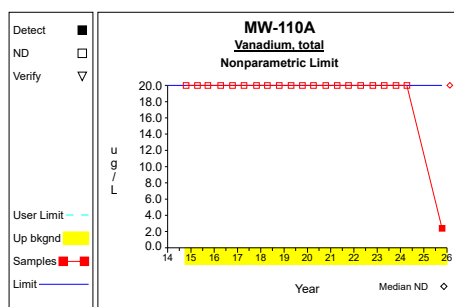
Graph 41



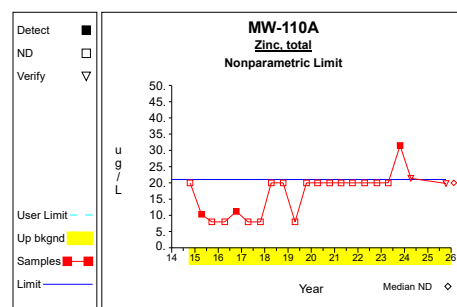
Graph 42



Graph 43

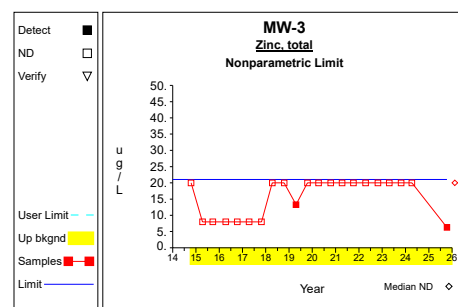
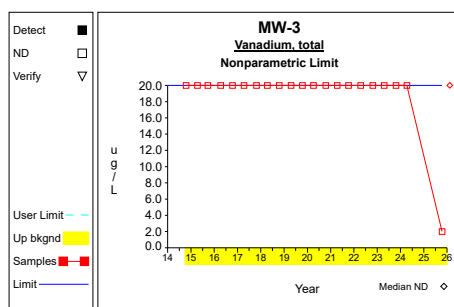
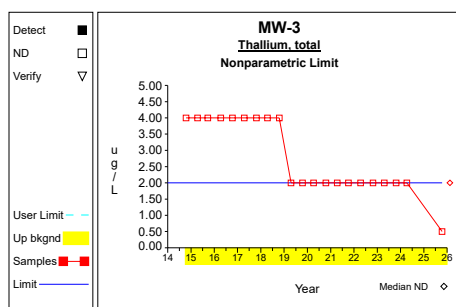
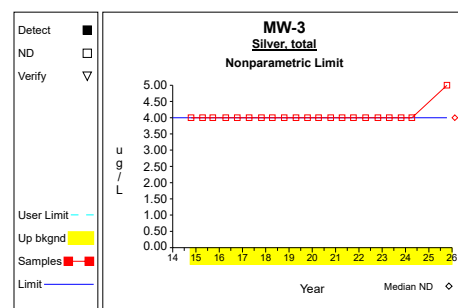
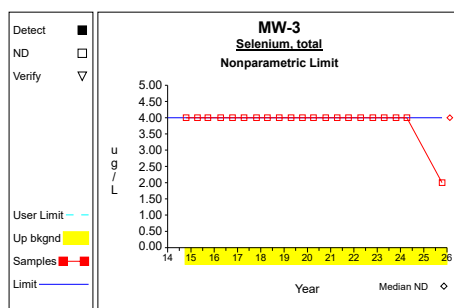
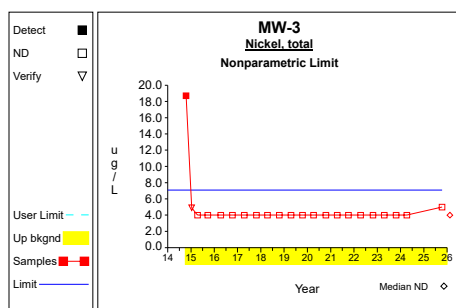
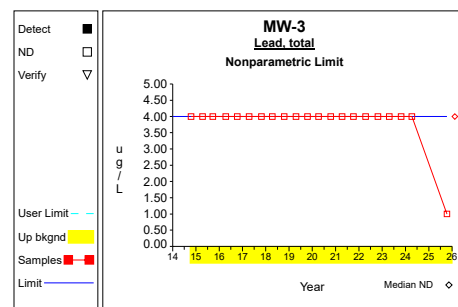
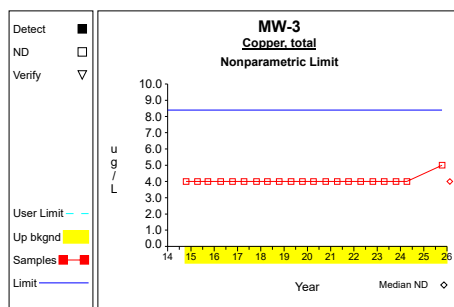
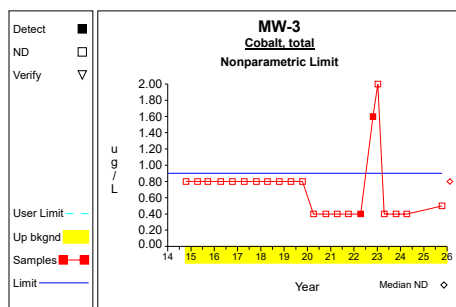
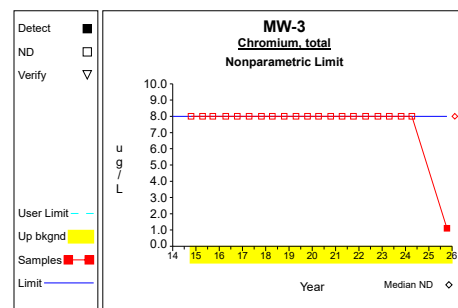
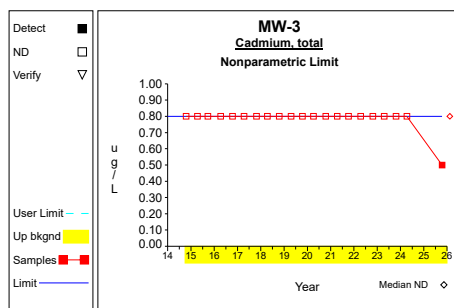
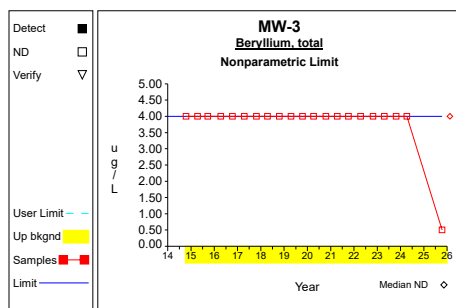
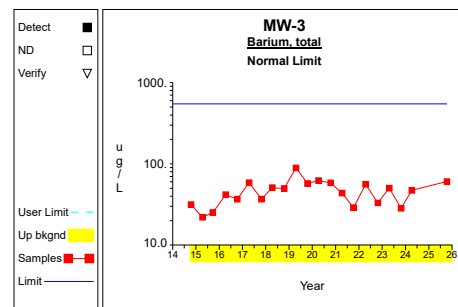
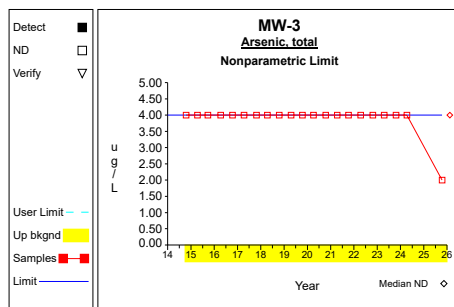
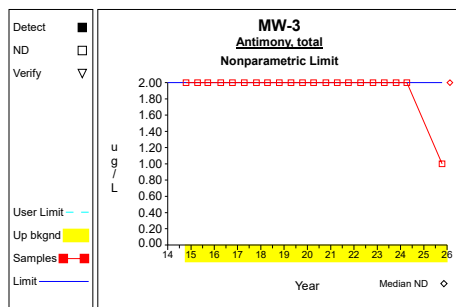


Graph 44

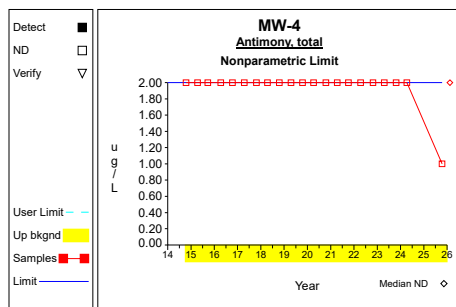


Graph 45

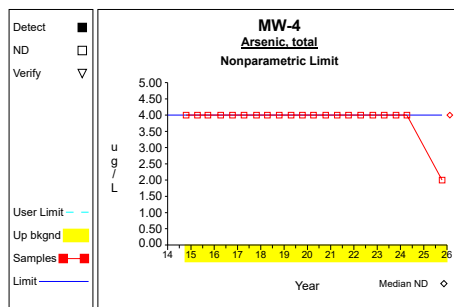
Up vs. Down Prediction Limits



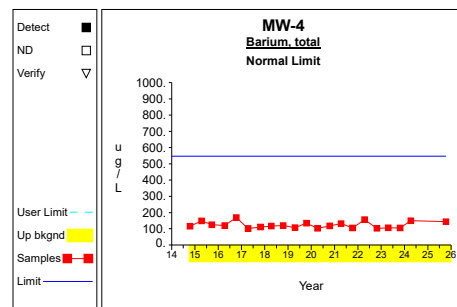
Up vs. Down Prediction Limits



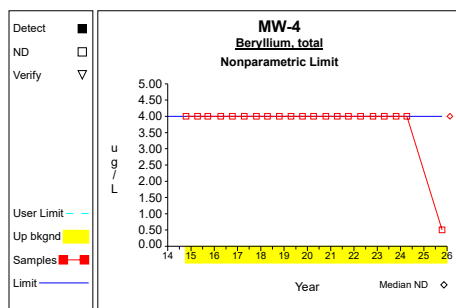
Graph 61



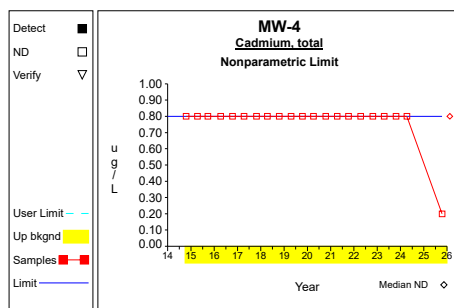
Graph 62



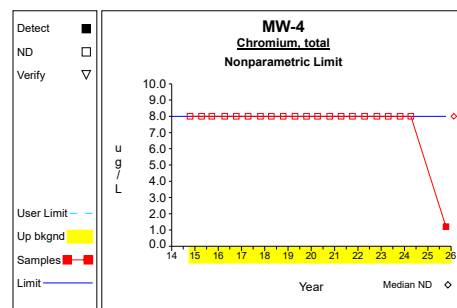
Graph 63



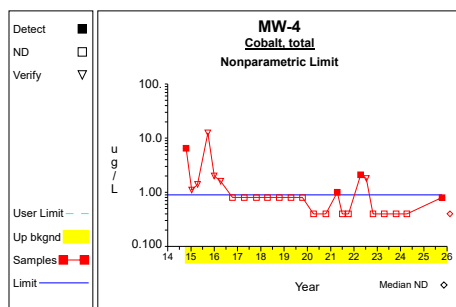
Graph 64



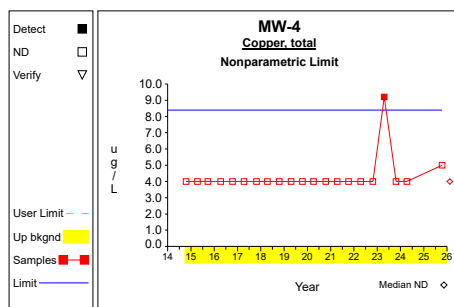
Graph 65



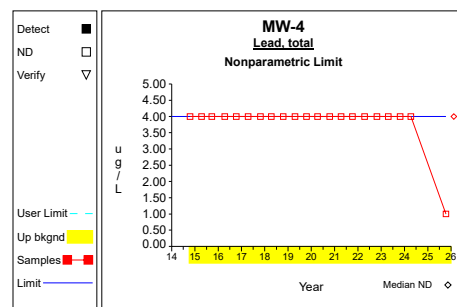
Graph 66



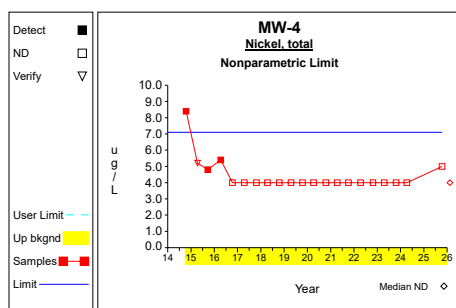
Graph 67



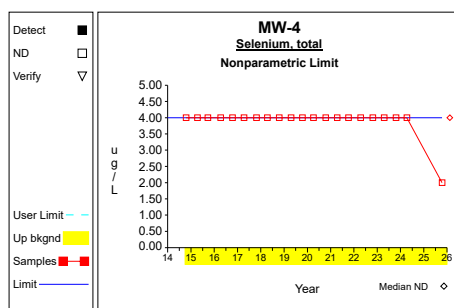
Graph 68



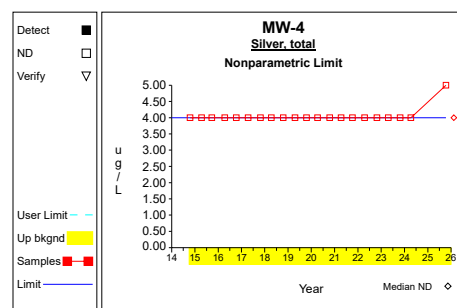
Graph 69



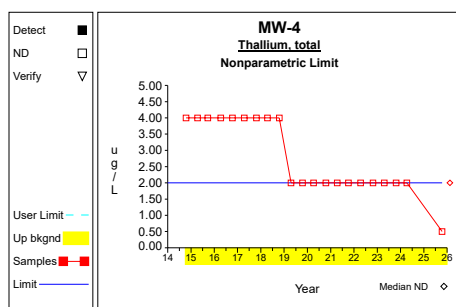
Graph 70



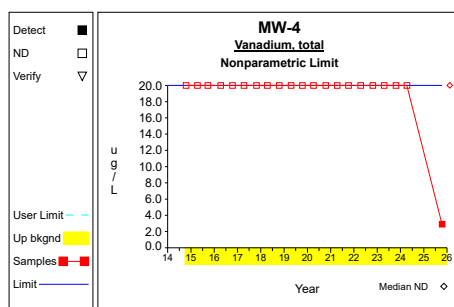
Graph 71



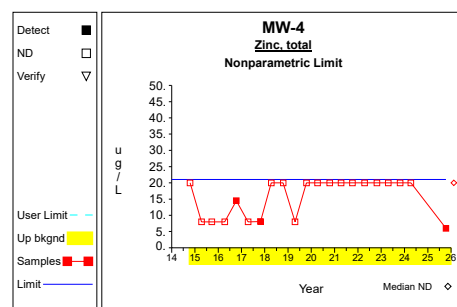
Graph 72



Graph 73



Graph 74



Graph 75

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

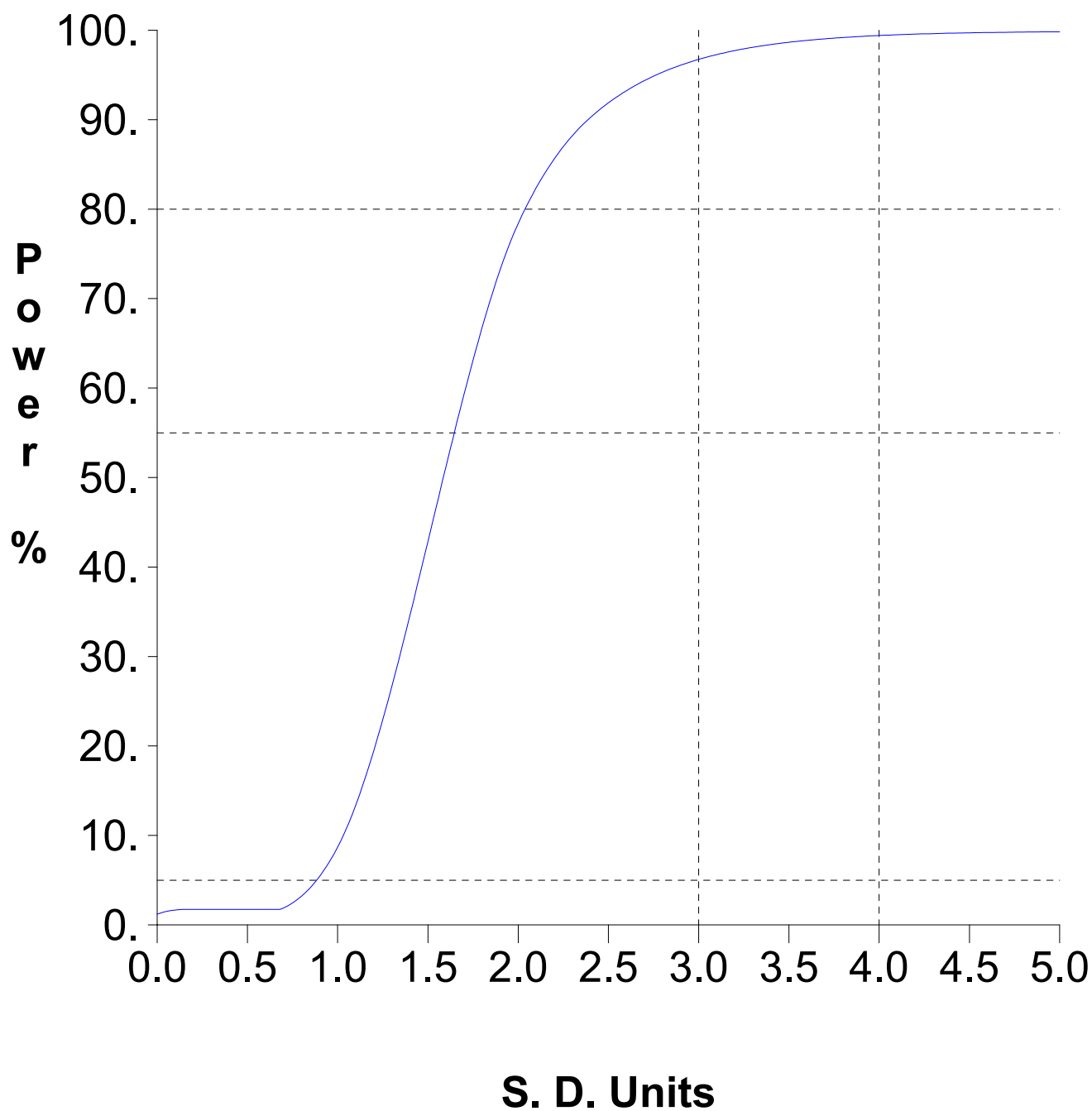


Table 1

**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-105B	4	2.000	0.000	1.176	2.000	2.000	10.000	
Barium, total	ug/L	MW-105B	4	103.925	11.476	1.176	90.426	117.424	2000.000	dec
Cadmium, total	ug/L	MW-105B	4	0.350	0.100	1.176	0.232	0.468	5.000	
Cobalt, total	ug/L	MW-105B	4	0.400	0.000	1.176	0.400	0.400	2.100	dec
Nickel, total	ug/L	MW-105B	4	2.850	1.700	1.176	0.850	4.850	100.000	
Zinc, total	ug/L	MW-105B	4	5.475	0.950	1.176	4.358	6.592	2000.000	
Arsenic, total	ug/L	MW-108A	4	9.975	5.789	1.176	3.166	16.784	10.000	
Barium, total	ug/L	MW-108A	4	33.025	13.318	1.176	17.360	48.690	2000.000	
Cadmium, total	ug/L	MW-108A	4	1.425	1.415	1.176	0.000	3.090	5.000	
Cobalt, total	ug/L	MW-108A	4	189.000	270.370	1.176	0.000	507.034	2.100	
Nickel, total	ug/L	MW-108A	4	102.675	126.749	1.176	0.000	251.769	100.000	
Zinc, total	ug/L	MW-108A	4	17.650	9.707	1.176	6.232	29.068	2000.000	
Arsenic, total	ug/L	MW-110A	4	63.825	75.290	1.176	0.000	152.388	10.000	inc
Barium, total	ug/L	MW-110A	4	598.750	300.231	1.176	245.591	951.909	2000.000	inc
Cadmium, total	ug/L	MW-110A	4	0.450	0.100	1.176	0.332	0.568	5.000	
Cobalt, total	ug/L	MW-110A	4	399.925	707.445	1.176	0.000	1232.085	2.100	dec
Nickel, total	ug/L	MW-110A	4	123.275	221.906	1.176	0.000	384.301	100.000	dec
Zinc, total	ug/L	MW-110A	4	20.675	8.802	1.176	10.321	31.029	2000.000	
Arsenic, total	ug/L	MW-3	4	2.000	0.000	1.176	2.000	2.000	10.000	
Barium, total	ug/L	MW-3	4	46.575	13.396	1.176	30.817	62.333	2000.000	dec
Cadmium, total	ug/L	MW-3	4	0.425	0.050	1.176	0.366	0.484	5.000	
Cobalt, total	ug/L	MW-3	4	0.400	0.000	1.176	0.400	0.400	2.100	
Nickel, total	ug/L	MW-3	4	2.000	0.000	1.176	2.000	2.000	100.000	
Zinc, total	ug/L	MW-3	4	9.075	1.850	1.176	6.899	11.251	2000.000	
Arsenic, total	ug/L	MW-4	4	2.000	0.000	1.176	2.000	2.000	10.000	
Barium, total	ug/L	MW-4	4	126.250	24.088	1.176	97.915	154.585	2000.000	dec
Cadmium, total	ug/L	MW-4	4	0.400	0.000	1.176	0.400	0.400	5.000	
Cobalt, total	ug/L	MW-4	4	0.500	0.200	1.176	0.265	0.735	2.100	dec
Nickel, total	ug/L	MW-4	4	2.000	0.000	1.176	2.000	2.000	100.000	dec
Zinc, total	ug/L	MW-4	4	9.000	2.000	1.176	6.647	11.353	2000.000	

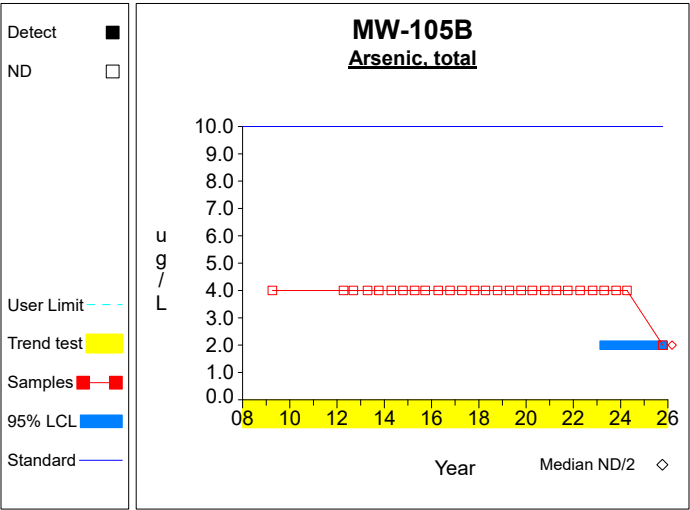
* - Insufficient Data

** - Significant Exceedance

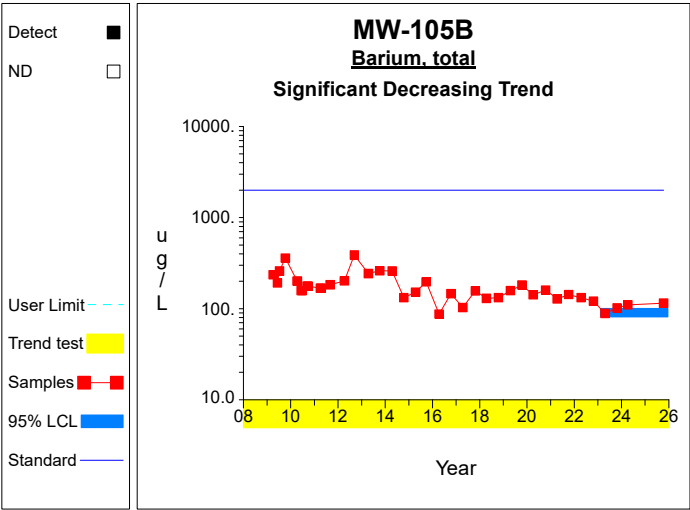
LCL = Lower Confidence Limit

UCL = Upper Confidence Limit

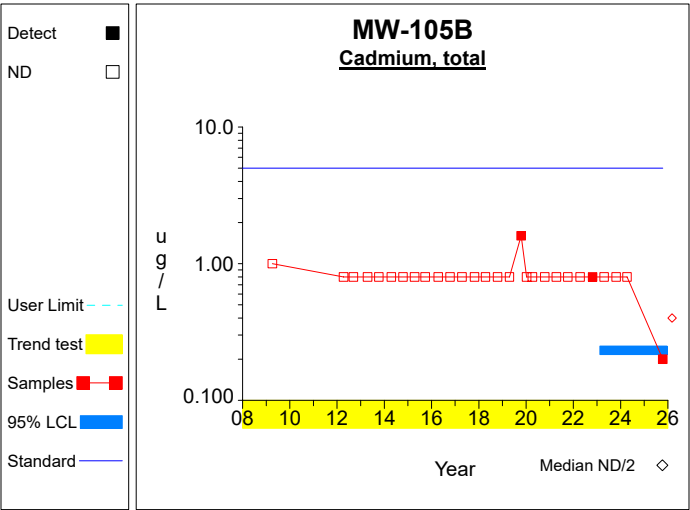
Confidence Limits (Assessment)



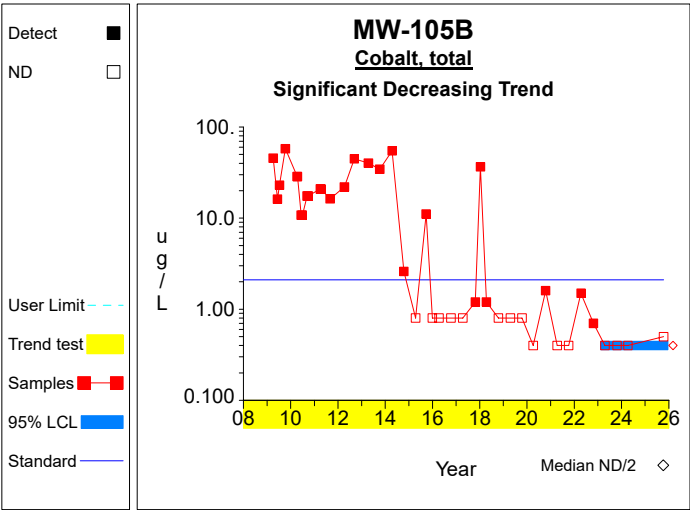
Graph 1



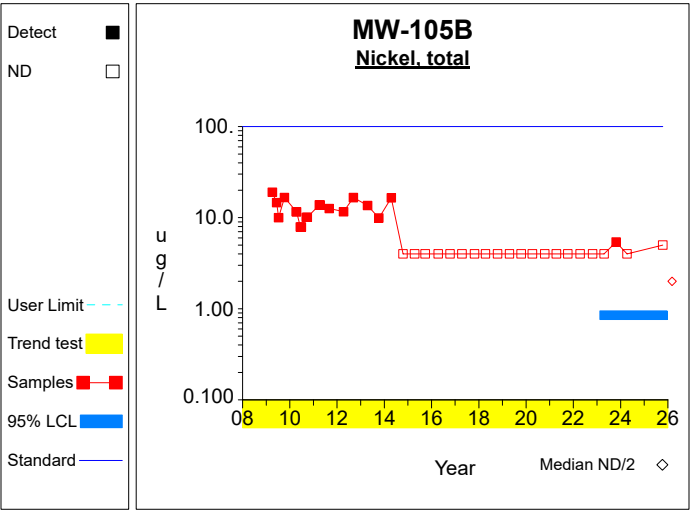
Graph 2



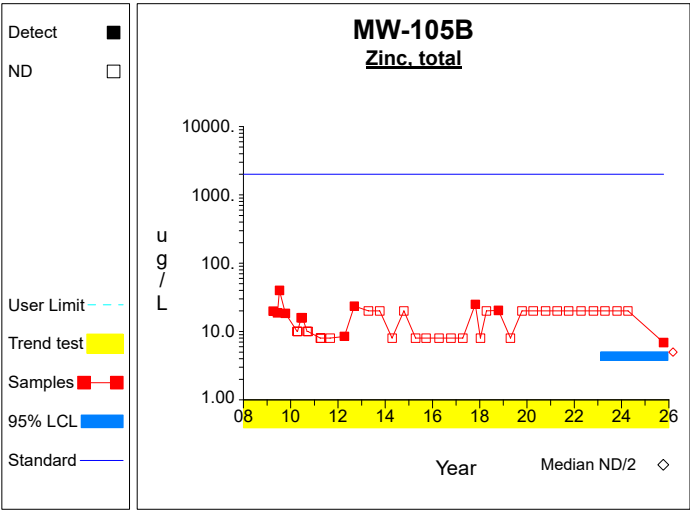
Graph 3



Graph 4

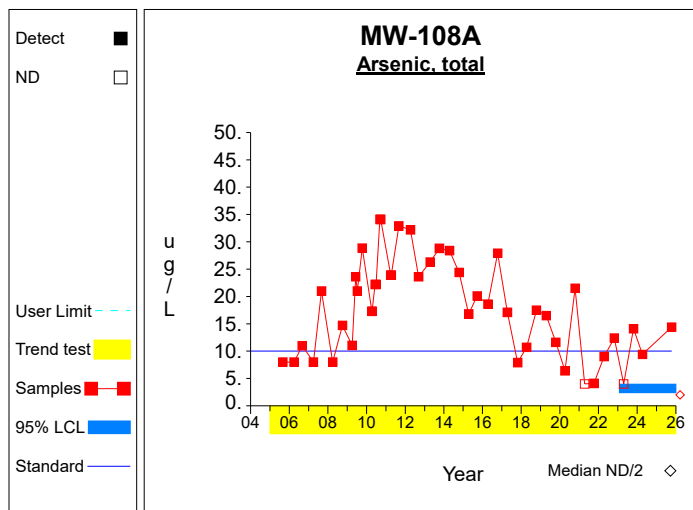


Graph 5

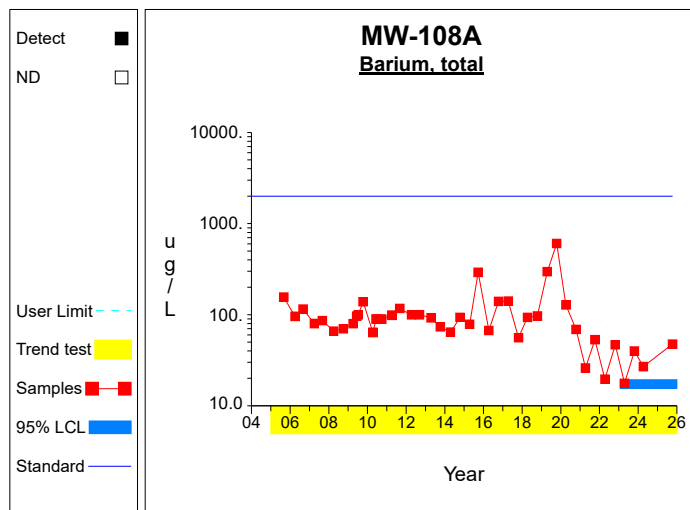


Graph 6

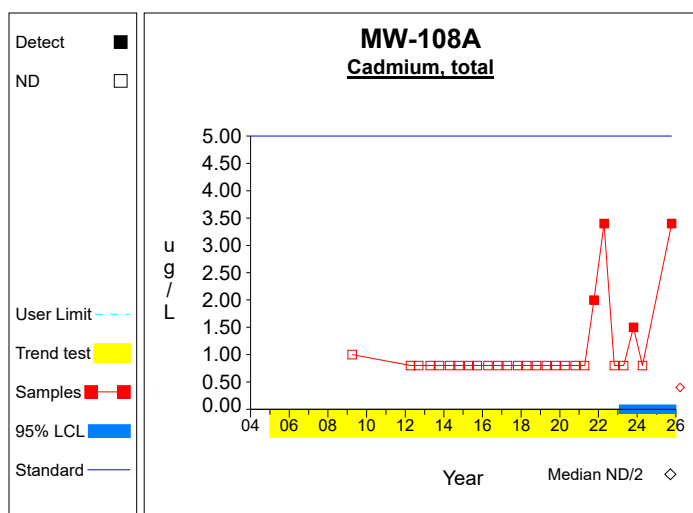
Confidence Limits (Assessment)



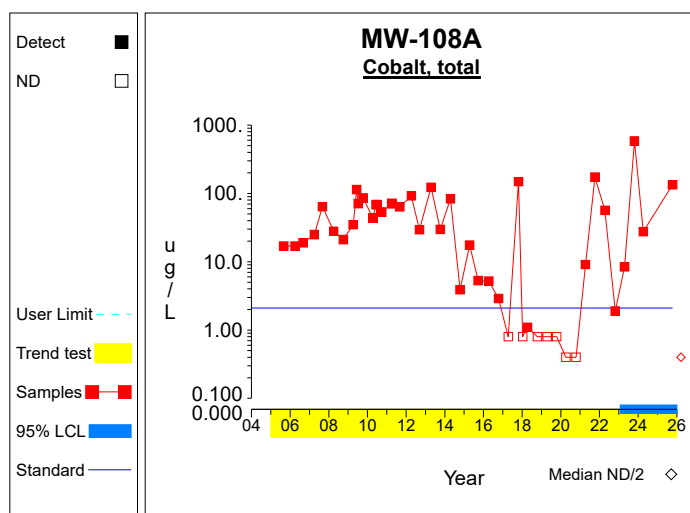
Graph 7



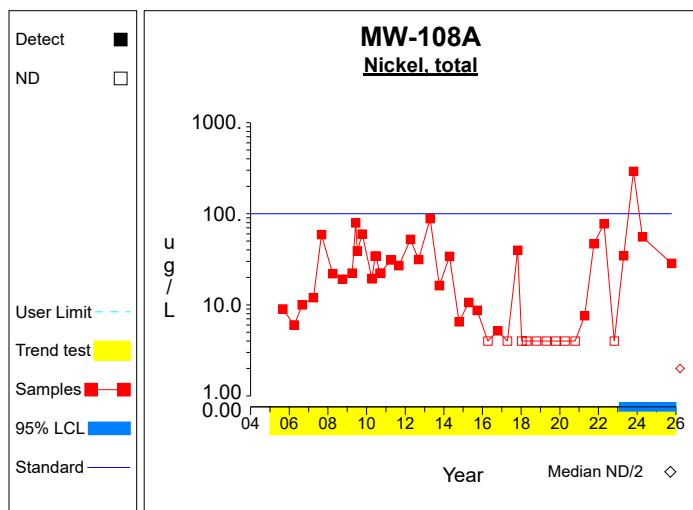
Graph 8



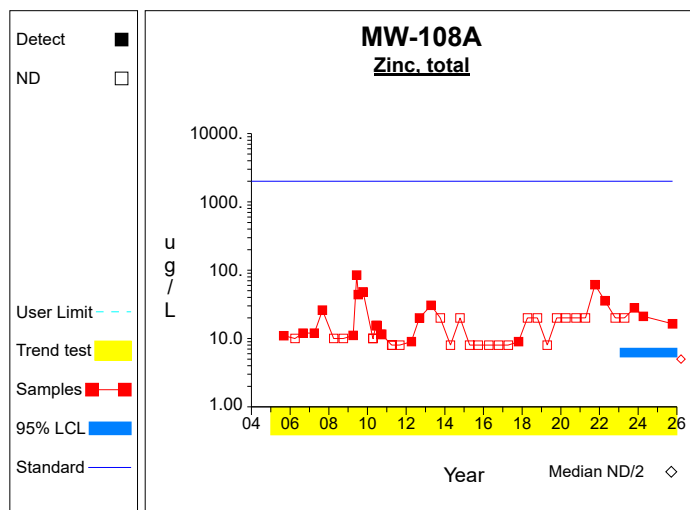
Graph 9



Graph 10

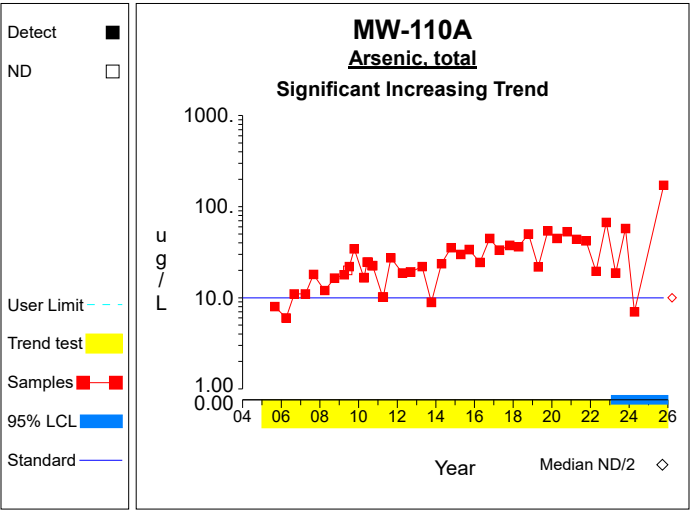


Graph 11

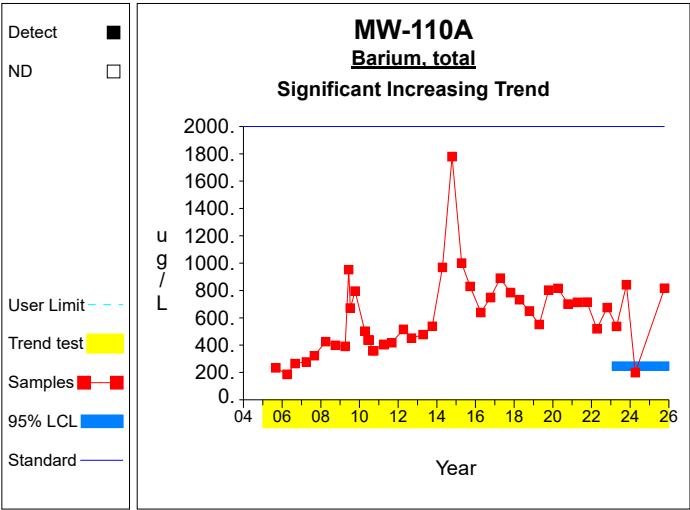


Graph 12

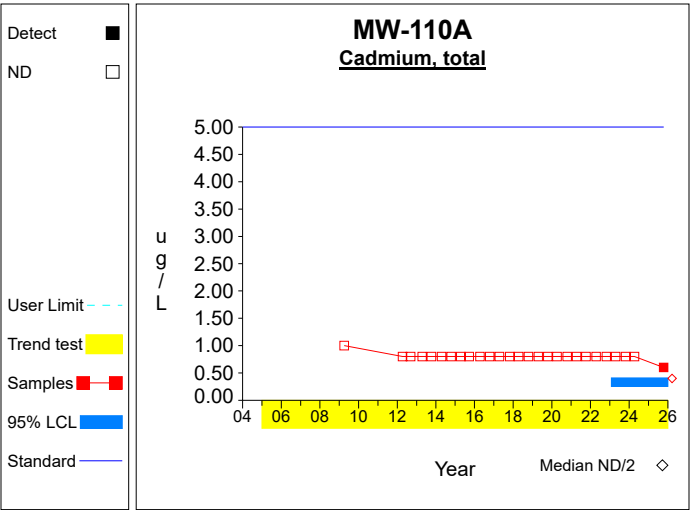
Confidence Limits (Assessment)



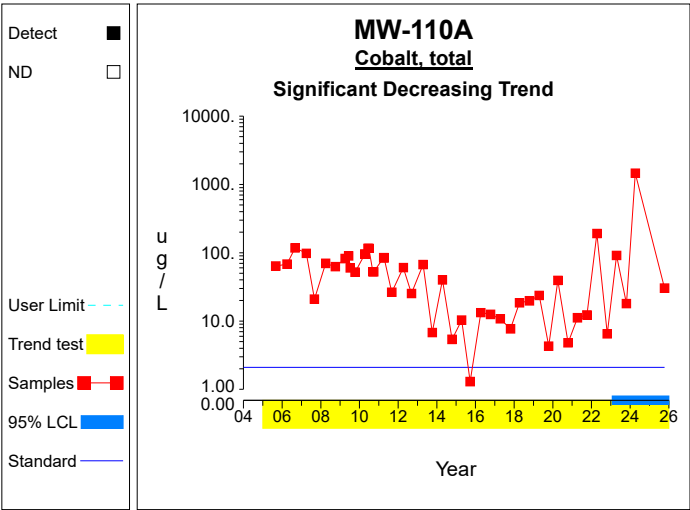
Graph 13



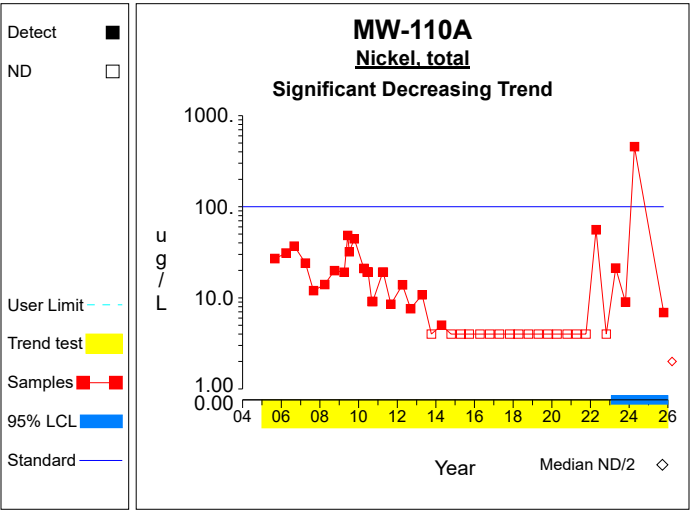
Graph 14



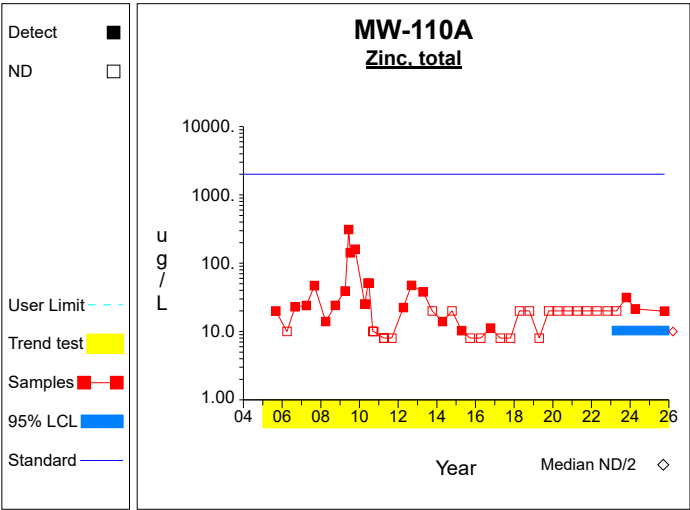
Graph 15



Graph 16

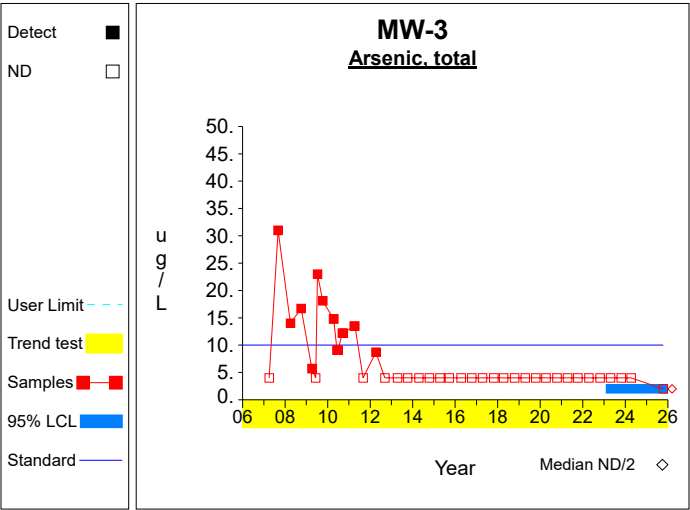


Graph 17

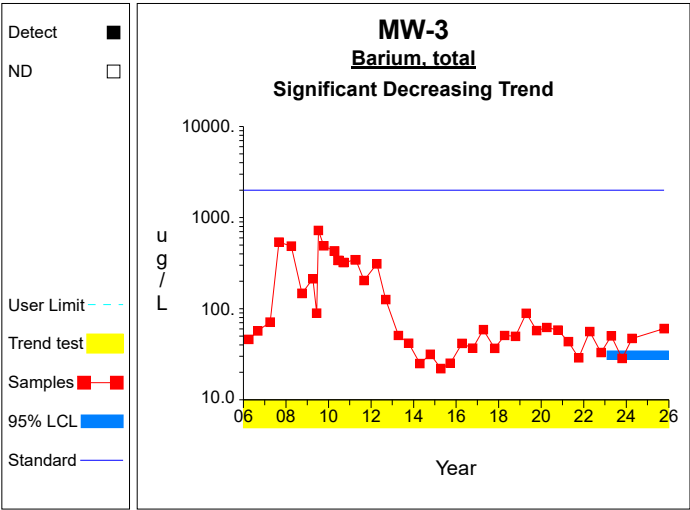


Graph 18

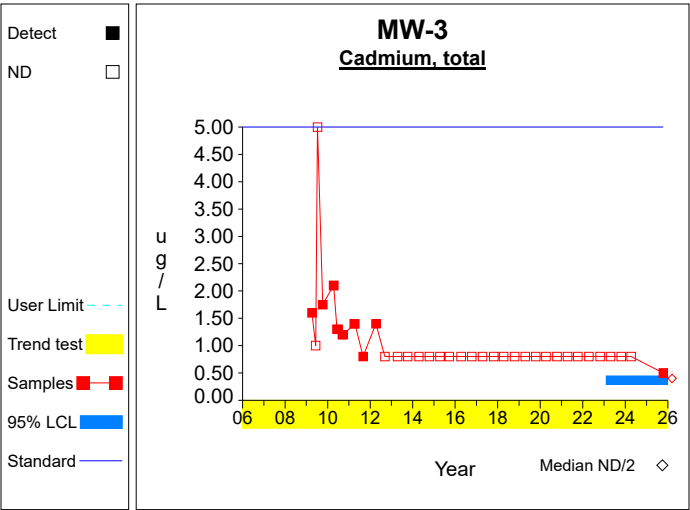
Confidence Limits (Assessment)



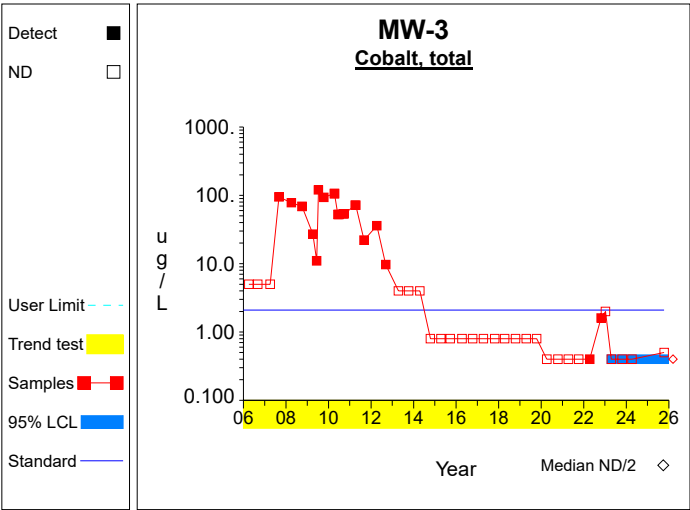
Graph 19



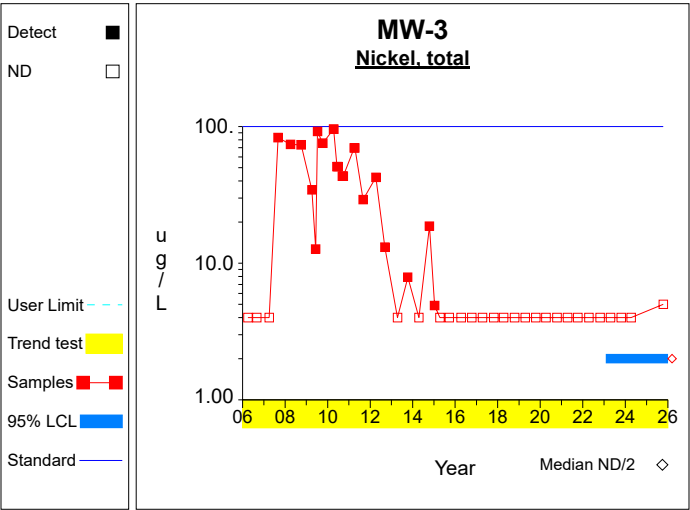
Graph 20



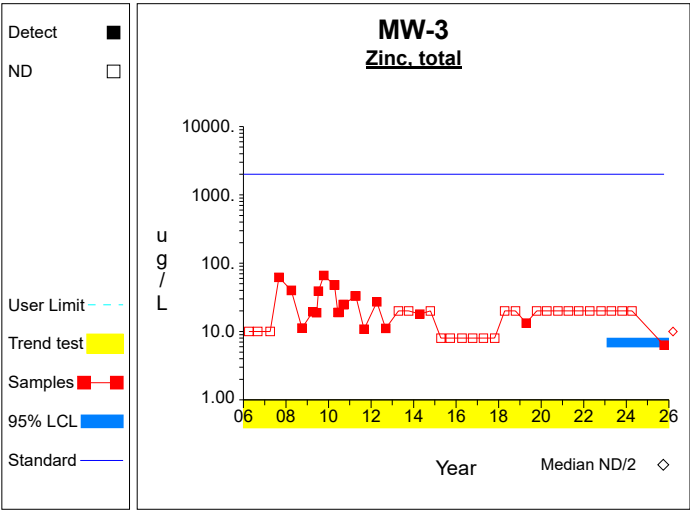
Graph 21



Graph 22

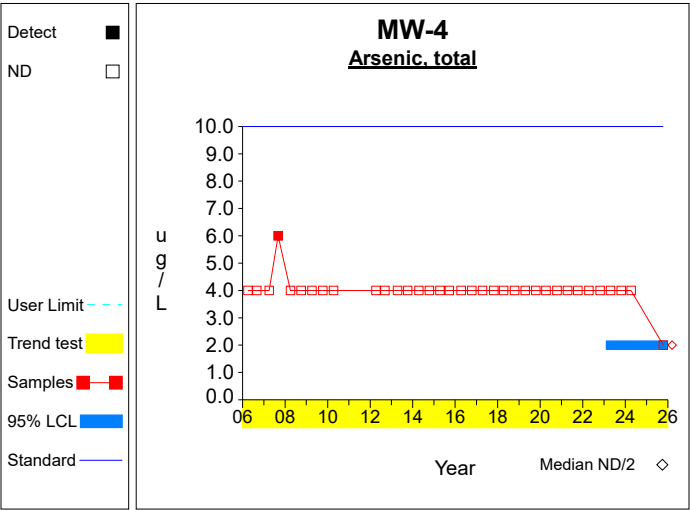


Graph 23

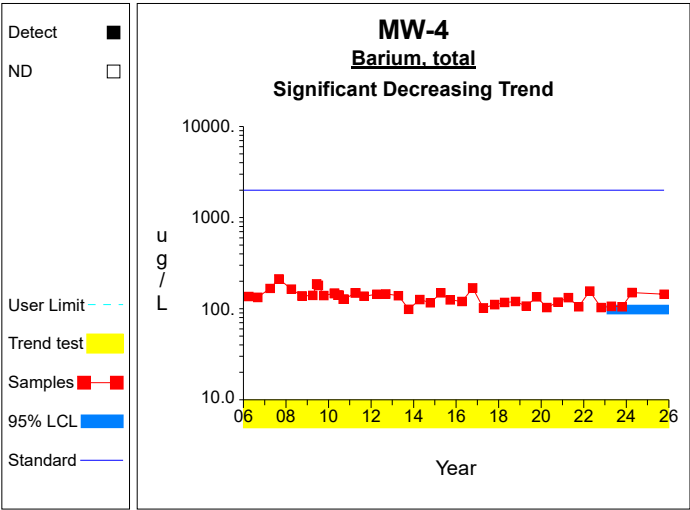


Graph 24

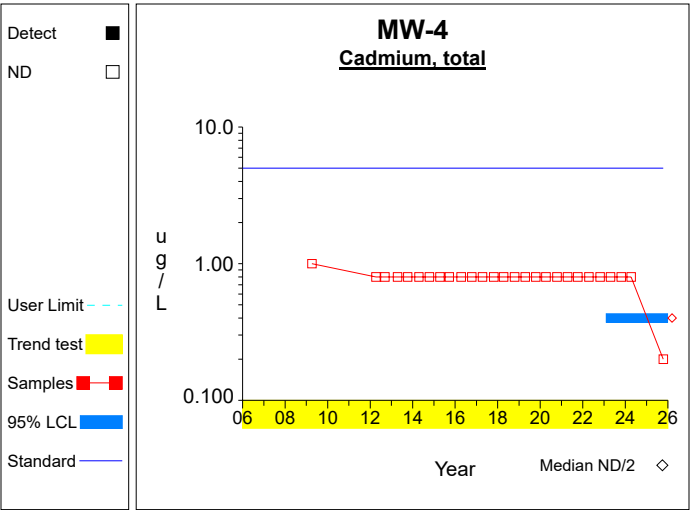
Confidence Limits (Assessment)



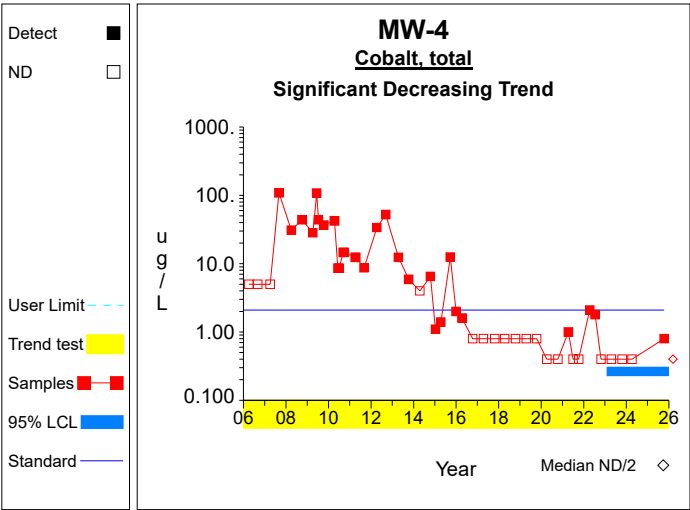
Graph 25



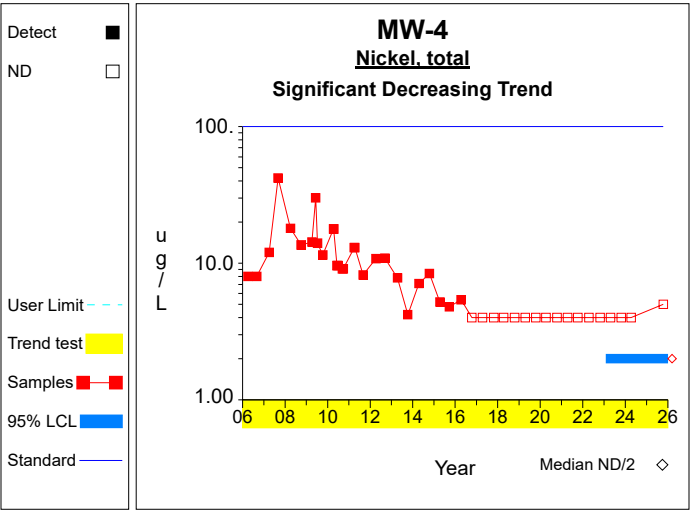
Graph 26



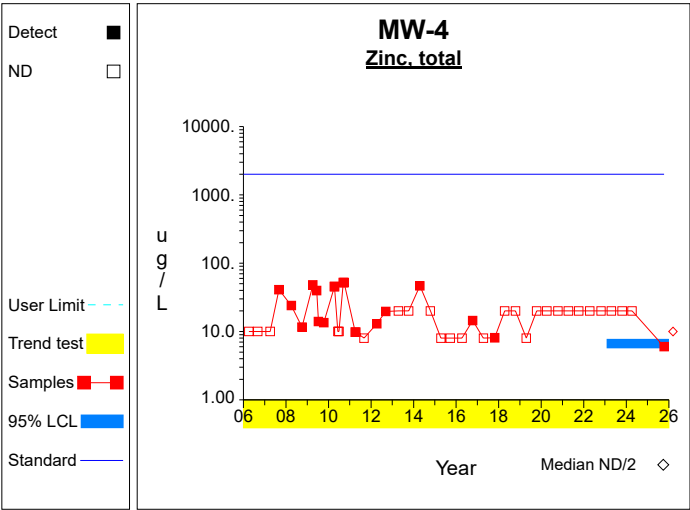
Graph 27



Graph 28



Graph 29



Graph 30

Attachment C

Summary Table of Historical VOC Detections

Table 1

Historical Volatile Organic Compound Detections

Constituent	Well	Date	Identifier	Result	Limit	Units
Chloromethane	MW-1	4/09/2024		7.9	1.0	ug/L
Acetone	MW-105B	10/25/2017		11.8	10.0	ug/L
Bis(2-ethylhexyl) phthalate	MW-105B	10/15/2014		12	8	ug/L
Bis(2-ethylhexyl) phthalate	MW-105B	9/24/2015		8	8	ug/L
Bis(2-ethylhexyl) phthalate	MW-105B	10/13/2025		6	6	ug/L
Bromoform	MW-105B	10/25/2022		1.4	1.0	ug/L
Chlorobenzene	MW-105B	10/07/2013		1.2	1.0	ug/L
Chlorobenzene	MW-105B	4/17/2014		1.1	1.0	ug/L
Chlorobenzene	MW-105B	9/24/2015		1.9	1.0	ug/L
Acetone	MW-108A	4/13/2015		153.0	10.0	ug/L
Acetone	MW-108A	4/13/2017		75.5	10.0	ug/L
Acetone	MW-108A	10/25/2017		83.8	10.0	ug/L
Benzene	MW-108A	9/10/2012		1.6	1.0	ug/L
Benzene	MW-108A	10/07/2013		1.4	1.0	ug/L
Benzene	MW-108A	4/17/2014		1.0	1.0	ug/L
Benzene	MW-108A	4/13/2015		1.2	1.0	ug/L
Benzene	MW-108A	9/22/2015		1.6	1.0	ug/L
Benzene	MW-108A	10/25/2017		1.0	1.0	ug/L
Benzene	MW-108A	1/12/2018		1.2	1.0	ug/L
Bis(2-ethylhexyl) phthalate	MW-108A	10/15/2020		10	6	ug/L
Chloroethane	MW-108A	4/17/2014		1.3	1.0	ug/L
Chloroethane	MW-108A	4/13/2015		1.4	1.0	ug/L
Chloroethane	MW-108A	9/22/2015		2.0	1.0	ug/L
Methyl parathion	MW-108A	10/15/2014		.5	.4	ug/L
Parathion	MW-108A	9/24/2015		.9	.4	ug/L
1,1-dichloroethane	MW-110A	4/09/2012		1.4	1.0	ug/L
1,1-dichloroethane	MW-110A	9/10/2012		1.6	1.0	ug/L
1,1-dichloroethane	MW-110A	10/07/2013		1.0	1.0	ug/L
1,1-dichloroethane	MW-110A	4/17/2014		1.5	1.0	ug/L
1,1-dichloroethane	MW-110A	10/12/2016		1.1	1.0	ug/L
1,1-dichloroethane	MW-110A	10/25/2017		1.3	1.0	ug/L
1,1-dichloroethane	MW-110A	10/15/2019		1.4	1.0	ug/L
1,1-dichloroethane	MW-110A	4/06/2020		1.2	1.0	ug/L
1,1-dichloroethane	MW-110A	10/15/2020		1.5	1.0	ug/L
1,1-dichloroethane	MW-110A	4/12/2021		1.6	1.0	ug/L
1,1-dichloroethane	MW-110A	10/06/2021		1.6	1.0	ug/L
1,1-dichloroethane	MW-110A	10/25/2022		2.0	1.0	ug/L
1,1-dichloroethane	MW-110A	4/19/2023		1.3	1.0	ug/L
1,1-dichloroethane	MW-110A	4/09/2024		1.1	1.0	ug/L
1,1-dichloroethene	MW-110A	9/01/2005		2.3	1.0	ug/L
1,4-dichlorobenzene	MW-110A	4/09/2012		6.8	1.0	ug/L
1,4-dichlorobenzene	MW-110A	9/10/2012		8.6	1.0	ug/L
1,4-dichlorobenzene	MW-110A	4/15/2013		9.6	1.0	ug/L
1,4-dichlorobenzene	MW-110A	10/07/2013		7.1	1.0	ug/L
1,4-dichlorobenzene	MW-110A	4/17/2014		9.1	1.0	ug/L
1,4-dichlorobenzene	MW-110A	10/15/2014		10.8	1.0	ug/L
1,4-dichlorobenzene	MW-110A	4/13/2015		7.3	1.0	ug/L
1,4-dichlorobenzene	MW-110A	9/22/2015		12.6	1.0	ug/L
1,4-dichlorobenzene	MW-110A	4/11/2016		13.6	1.0	ug/L
1,4-dichlorobenzene	MW-110A	10/12/2016		12.7	1.0	ug/L
1,4-dichlorobenzene	MW-110A	4/13/2017		11.0	1.0	ug/L
1,4-dichlorobenzene	MW-110A	10/25/2017		11.6	1.0	ug/L
1,4-dichlorobenzene	MW-110A	4/12/2018		12.1	1.0	ug/L
1,4-dichlorobenzene	MW-110A	10/16/2018		12.1	1.0	ug/L
1,4-dichlorobenzene	MW-110A	4/18/2019		9.7	1.0	ug/L
1,4-dichlorobenzene	MW-110A	10/15/2020		11.9	1.0	ug/L
1,4-dichlorobenzene	MW-110A	4/12/2021		6.8	1.0	ug/L
1,4-dichlorobenzene	MW-110A	10/06/2021		5.4	1.0	ug/L
1,4-dichlorobenzene	MW-110A	4/14/2022		4.7	1.0	ug/L
1,4-dichlorobenzene	MW-110A	10/25/2022		5.2	1.0	ug/L
1,4-dichlorobenzene	MW-110A	4/19/2023		5.4	1.0	ug/L
1,4-dichlorobenzene	MW-110A	10/23/2023		3.4	1.0	ug/L
1,4-dichlorobenzene	MW-110A	4/09/2024		3.6	1.0	ug/L
1,4-dichlorobenzene	MW-110A	10/13/2025		4.1	1.0	ug/L
Acetone	MW-110A	10/25/2017		11.2	10.0	ug/L
Benzene	MW-110A	9/01/2005		2.3	1.0	ug/L
Benzene	MW-110A	4/01/2006		2.7	1.0	ug/L
Benzene	MW-110A	9/01/2006		3.2	1.0	ug/L
Benzene	MW-110A	4/01/2007		3.5	1.0	ug/L
Benzene	MW-110A	9/01/2007		3.0	1.0	ug/L
Benzene	MW-110A	4/01/2008		4.6	1.0	ug/L
Benzene	MW-110A	10/01/2008		6.2	1.0	ug/L
Benzene	MW-110A	4/04/2009		4.6	1.0	ug/L
Benzene	MW-110A	4/04/2009		4.6	1.0	ug/L
Benzene	MW-110A	6/09/2009		4.1	1.0	ug/L
Benzene	MW-110A	7/09/2009		4.3	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
Benzene	MW-110A	10/09/2009		5.1	1.0	ug/L
Benzene	MW-110A	10/09/2009		5.4	1.0	ug/L
Benzene	MW-110A	4/10/2010		6.1	1.0	ug/L
Benzene	MW-110A	4/13/2010		6.1	1.0	ug/L
Benzene	MW-110A	6/10/2010		7.8	1.0	ug/L
Benzene	MW-110A	6/29/2010		7.8	1.0	ug/L
Benzene	MW-110A	9/10/2010		6.3	1.0	ug/L
Benzene	MW-110A	9/27/2010		6.3	1.0	ug/L
Benzene	MW-110A	4/01/2011		5.1	1.0	ug/L
Benzene	MW-110A	4/11/2011		5.1	1.0	ug/L
Benzene	MW-110A	9/01/2011		5.9	1.0	ug/L
Benzene	MW-110A	4/09/2012		6.4	1.0	ug/L
Benzene	MW-110A	9/10/2012		6.8	1.0	ug/L
Benzene	MW-110A	4/15/2013		5.8	1.0	ug/L
Benzene	MW-110A	10/07/2013		4.9	1.0	ug/L
Benzene	MW-110A	4/17/2014		6.0	1.0	ug/L
Benzene	MW-110A	10/15/2014		4.7	1.0	ug/L
Benzene	MW-110A	4/13/2015		3.8	1.0	ug/L
Benzene	MW-110A	9/22/2015		5.8	1.0	ug/L
Benzene	MW-110A	10/12/2016		5.4	1.0	ug/L
Benzene	MW-110A	4/13/2017		3.5	1.0	ug/L
Benzene	MW-110A	10/25/2017		4.3	1.0	ug/L
Benzene	MW-110A	4/12/2018		5.1	1.0	ug/L
Benzene	MW-110A	10/16/2018		1.6	1.0	ug/L
Benzene	MW-110A	4/18/2019		2.6	1.0	ug/L
Benzene	MW-110A	10/15/2019		5.2	1.0	ug/L
Benzene	MW-110A	4/06/2020		4.0	1.0	ug/L
Benzene	MW-110A	10/15/2020		4.4	1.0	ug/L
Benzene	MW-110A	4/12/2021		4.0	1.0	ug/L
Benzene	MW-110A	10/06/2021		3.4	1.0	ug/L
Benzene	MW-110A	4/14/2022		3.5	1.0	ug/L
Benzene	MW-110A	10/25/2022		3.8	1.0	ug/L
Benzene	MW-110A	4/19/2023		2.3	1.0	ug/L
Benzene	MW-110A	10/23/2023		2.6	1.0	ug/L
Benzene	MW-110A	4/09/2024		3.4	1.0	ug/L
Benzene	MW-110A	10/13/2025		1.6	1.0	ug/L
Chlorobenzene	MW-110A	9/01/2005		4.8	1.0	ug/L
Chlorobenzene	MW-110A	4/01/2006		5.2	1.0	ug/L
Chlorobenzene	MW-110A	9/01/2006		5.0	1.0	ug/L
Chlorobenzene	MW-110A	4/01/2007		5.8	1.0	ug/L
Chlorobenzene	MW-110A	9/01/2007		4.9	1.0	ug/L
Chlorobenzene	MW-110A	4/01/2008		7.0	1.0	ug/L
Chlorobenzene	MW-110A	10/01/2008		9.9	1.0	ug/L
Chlorobenzene	MW-110A	4/04/2009		6.8	1.0	ug/L
Chlorobenzene	MW-110A	4/04/2009		6.8	1.0	ug/L
Chlorobenzene	MW-110A	6/09/2009		4.9	1.0	ug/L
Chlorobenzene	MW-110A	7/09/2009		4.4	1.0	ug/L
Chlorobenzene	MW-110A	10/09/2009		5.4	1.0	ug/L
Chlorobenzene	MW-110A	10/09/2009		6.7	1.0	ug/L
Chlorobenzene	MW-110A	4/10/2010		10.8	1.0	ug/L
Chlorobenzene	MW-110A	4/13/2010		10.8	1.0	ug/L
Chlorobenzene	MW-110A	6/10/2010		10.9	1.0	ug/L
Chlorobenzene	MW-110A	6/29/2010		10.9	1.0	ug/L
Chlorobenzene	MW-110A	9/10/2010		10.6	1.0	ug/L
Chlorobenzene	MW-110A	9/27/2010		10.6	1.0	ug/L
Chlorobenzene	MW-110A	4/01/2011		8.0	1.0	ug/L
Chlorobenzene	MW-110A	4/11/2011		8.0	1.0	ug/L
Chlorobenzene	MW-110A	9/01/2011		5.5	1.0	ug/L
Chlorobenzene	MW-110A	4/09/2012		8.6	1.0	ug/L
Chlorobenzene	MW-110A	9/10/2012		8.0	1.0	ug/L
Chlorobenzene	MW-110A	4/15/2013		12.5	1.0	ug/L
Chlorobenzene	MW-110A	10/07/2013		7.1	1.0	ug/L
Chlorobenzene	MW-110A	4/17/2014		10.2	1.0	ug/L
Chlorobenzene	MW-110A	10/15/2014		7.7	1.0	ug/L
Chlorobenzene	MW-110A	4/13/2015		5.6	1.0	ug/L
Chlorobenzene	MW-110A	9/22/2015		9.8	1.0	ug/L
Chlorobenzene	MW-110A	10/12/2016		6.8	1.0	ug/L
Chlorobenzene	MW-110A	4/13/2017		3.7	1.0	ug/L
Chlorobenzene	MW-110A	10/25/2017		5.1	1.0	ug/L
Chlorobenzene	MW-110A	4/12/2018		5.7	1.0	ug/L
Chlorobenzene	MW-110A	10/16/2018		3.6	1.0	ug/L
Chlorobenzene	MW-110A	4/18/2019		5.4	1.0	ug/L
Chlorobenzene	MW-110A	10/15/2019		6.1	1.0	ug/L
Chlorobenzene	MW-110A	4/06/2020		5.9	1.0	ug/L
Chlorobenzene	MW-110A	10/15/2020		7.6	1.0	ug/L
Chlorobenzene	MW-110A	4/12/2021		7.9	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
Chlorobenzene	MW-110A	10/06/2021		8.6	1.0	ug/L
Chlorobenzene	MW-110A	4/14/2022		6.3	1.0	ug/L
Chlorobenzene	MW-110A	10/25/2022		8.7	1.0	ug/L
Chlorobenzene	MW-110A	4/19/2023		5.1	1.0	ug/L
Chlorobenzene	MW-110A	10/23/2023		6.5	1.0	ug/L
Chlorobenzene	MW-110A	4/09/2024		7.6	1.0	ug/L
Chlorobenzene	MW-110A	10/13/2025		4.0	1.0	ug/L
Chloroethane	MW-110A	9/01/2005		6.2	1.0	ug/L
Chloroethane	MW-110A	4/04/2009		2.7	1.0	ug/L
Chloroethane	MW-110A	4/04/2009		2.7	1.0	ug/L
Chloroethane	MW-110A	6/09/2009		2.2	1.0	ug/L
Chloroethane	MW-110A	7/09/2009		2.4	1.0	ug/L
Chloroethane	MW-110A	10/09/2009		2.4	1.0	ug/L
Chloroethane	MW-110A	10/09/2009		3.0	1.0	ug/L
Chloroethane	MW-110A	4/10/2010		3.8	1.0	ug/L
Chloroethane	MW-110A	4/13/2010		3.8	1.0	ug/L
Chloroethane	MW-110A	6/10/2010		5.0	1.0	ug/L
Chloroethane	MW-110A	6/29/2010		5.0	1.0	ug/L
Chloroethane	MW-110A	4/01/2011		4.2	1.0	ug/L
Chloroethane	MW-110A	4/11/2011		4.2	1.0	ug/L
Chloroethane	MW-110A	9/01/2011		5.3	1.0	ug/L
Chloroethane	MW-110A	4/09/2012		4.9	1.0	ug/L
Chloroethane	MW-110A	9/10/2012		4.9	1.0	ug/L
Chloroethane	MW-110A	4/15/2013		2.9	1.0	ug/L
Chloroethane	MW-110A	10/07/2013		2.9	1.0	ug/L
Chloroethane	MW-110A	4/17/2014		3.1	1.0	ug/L
Chloroethane	MW-110A	10/15/2014		3.1	1.0	ug/L
Chloroethane	MW-110A	4/13/2015		2.2	1.0	ug/L
Chloroethane	MW-110A	9/22/2015		2.5	1.0	ug/L
Chloroethane	MW-110A	10/12/2016		3.1	1.0	ug/L
Chloroethane	MW-110A	4/13/2017		2.5	1.0	ug/L
Chloroethane	MW-110A	10/25/2017		3.0	1.0	ug/L
Chloroethane	MW-110A	10/16/2018		1.8	1.0	ug/L
Chloroethane	MW-110A	4/18/2019		2.2	1.0	ug/L
Chloroethane	MW-110A	10/15/2019		2.4	1.0	ug/L
Chloroethane	MW-110A	4/06/2020		2.1	1.0	ug/L
Chloroethane	MW-110A	10/15/2020		2.8	1.0	ug/L
Chloroethane	MW-110A	4/12/2021		2.1	1.0	ug/L
Chloroethane	MW-110A	10/06/2021		1.5	1.0	ug/L
Chloroethane	MW-110A	4/14/2022		1.5	1.0	ug/L
Chloroethane	MW-110A	10/25/2022		3.3	1.0	ug/L
Chloroethane	MW-110A	4/19/2023		1.8	1.0	ug/L
Chloroethane	MW-110A	10/23/2023		1.8	1.0	ug/L
Chloroethane	MW-110A	4/09/2024		1.4	1.0	ug/L
Chloroethane	MW-110A	10/13/2025		3.8	1.0	ug/L
Cis-1,2-dichloroethene	MW-110A	9/01/2005		7.9	1.0	ug/L
Cis-1,2-dichloroethene	MW-110A	4/01/2006		14.3	1.0	ug/L
Cis-1,2-dichloroethene	MW-110A	9/01/2006		13.8	1.0	ug/L
Cis-1,2-dichloroethene	MW-110A	4/01/2007		8.7	1.0	ug/L
Cis-1,2-dichloroethene	MW-110A	9/01/2007		4.2	1.0	ug/L
Cis-1,2-dichloroethene	MW-110A	4/01/2008		8.0	1.0	ug/L
Cis-1,2-dichloroethene	MW-110A	4/04/2009		4.7	1.0	ug/L
Cis-1,2-dichloroethene	MW-110A	4/04/2009		4.7	1.0	ug/L
Cis-1,2-dichloroethene	MW-110A	6/09/2009		4.3	1.0	ug/L
Cis-1,2-dichloroethene	MW-110A	7/09/2009		4.3	1.0	ug/L
Cis-1,2-dichloroethene	MW-110A	10/09/2009		5.8	1.0	ug/L
Cis-1,2-dichloroethene	MW-110A	10/09/2009		5.4	1.0	ug/L
Cis-1,2-dichloroethene	MW-110A	4/10/2010		3.0	1.0	ug/L
Cis-1,2-dichloroethene	MW-110A	4/13/2010		3.0	1.0	ug/L
Cis-1,2-dichloroethene	MW-110A	6/10/2010		1.9	1.0	ug/L
Cis-1,2-dichloroethene	MW-110A	6/29/2010		1.9	1.0	ug/L
Cis-1,2-dichloroethene	MW-110A	9/10/2010		2.1	1.0	ug/L
Cis-1,2-dichloroethene	MW-110A	9/27/2010		2.1	1.0	ug/L
Cis-1,2-dichloroethene	MW-110A	4/01/2011		1.6	1.0	ug/L
Cis-1,2-dichloroethene	MW-110A	4/11/2011		1.6	1.0	ug/L
Cis-1,2-dichloroethene	MW-110A	9/01/2011		2.1	1.0	ug/L
Cis-1,2-dichloroethene	MW-110A	9/10/2012		2.7	1.0	ug/L
Cis-1,2-dichloroethene	MW-110A	4/15/2013		1.1	1.0	ug/L
Ethylbenzene	MW-110A	4/09/2012		1.1	1.0	ug/L
Ethylbenzene	MW-110A	4/15/2013		2.8	1.0	ug/L
Ethylbenzene	MW-110A	10/07/2013		1.5	1.0	ug/L
Ethylbenzene	MW-110A	4/17/2014		1.0	1.0	ug/L
Ethylbenzene	MW-110A	9/22/2015		1.1	1.0	ug/L
Ethylbenzene	MW-110A	4/13/2017		1.0	1.0	ug/L
Toluene	MW-110A	4/01/2006		1.7	1.0	ug/L
Toluene	MW-110A	4/01/2007		3.8	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
Toluene	MW-110A	4/01/2008		4.8	1.0	ug/L
Toluene	MW-110A	4/04/2009		6.1	1.0	ug/L
Toluene	MW-110A	4/04/2009		6.1	1.0	ug/L
Toluene	MW-110A	6/09/2009		2.9	1.0	ug/L
Toluene	MW-110A	7/09/2009		6.8	1.0	ug/L
Toluene	MW-110A	10/09/2009		5.1	1.0	ug/L
Toluene	MW-110A	10/09/2009		2.2	1.0	ug/L
Toluene	MW-110A	4/10/2010		5.2	1.0	ug/L
Toluene	MW-110A	4/13/2010		1.4	1.0	ug/L
Toluene	MW-110A	9/10/2010		3.0	1.0	ug/L
Toluene	MW-110A	9/27/2010		1.1	1.0	ug/L
Toluene	MW-110A	9/01/2011		2.6	1.0	ug/L
Toluene	MW-110A	4/15/2013		1.0	1.0	ug/L
Toluene	MW-110A	4/13/2017		1.0	1.0	ug/L
Vinyl chloride	MW-110A	9/01/2005		1.7	1.0	ug/L
Vinyl chloride	MW-110A	9/01/2006		2.5	1.0	ug/L
Vinyl chloride	MW-110A	9/01/2007		2.2	1.0	ug/L
Vinyl chloride	MW-110A	10/01/2008		5.6	1.0	ug/L
Vinyl chloride	MW-110A	4/04/2009		5.8	1.0	ug/L
Vinyl chloride	MW-110A	4/04/2009		5.8	1.0	ug/L
Vinyl chloride	MW-110A	6/09/2009		5.8	1.0	ug/L
Vinyl chloride	MW-110A	7/09/2009		2.2	1.0	ug/L
Vinyl chloride	MW-110A	10/09/2009		1.4	1.0	ug/L
Vinyl chloride	MW-110A	10/09/2009		4.7	1.0	ug/L
Vinyl chloride	MW-110A	4/10/2010		1.4	1.0	ug/L
Vinyl chloride	MW-110A	4/13/2010		5.2	1.0	ug/L
Vinyl chloride	MW-110A	6/10/2010		5.1	1.0	ug/L
Vinyl chloride	MW-110A	6/29/2010		5.1	1.0	ug/L
Vinyl chloride	MW-110A	9/10/2010		1.1	1.0	ug/L
Vinyl chloride	MW-110A	9/27/2010		3.0	1.0	ug/L
Vinyl chloride	MW-110A	4/01/2011		2.7	1.0	ug/L
Vinyl chloride	MW-110A	4/11/2011		2.7	1.0	ug/L
Vinyl chloride	MW-110A	4/09/2012		2.4	1.0	ug/L
Vinyl chloride	MW-110A	9/10/2012		3.0	1.0	ug/L
Vinyl chloride	MW-110A	4/15/2013		1.8	1.0	ug/L
Vinyl chloride	MW-110A	10/07/2013		1.7	1.0	ug/L
Vinyl chloride	MW-110A	4/17/2014		1.8	1.0	ug/L
Vinyl chloride	MW-110A	10/15/2014		1.5	1.0	ug/L
Vinyl chloride	MW-110A	4/13/2015		1.1	1.0	ug/L
Vinyl chloride	MW-110A	9/22/2015		1.3	1.0	ug/L
Vinyl chloride	MW-110A	10/12/2016		1.3	1.0	ug/L
Vinyl chloride	MW-110A	4/13/2017		1.2	1.0	ug/L
Vinyl chloride	MW-110A	10/25/2017		1.0	1.0	ug/L
Vinyl chloride	MW-110A	10/15/2019		2.0	1.0	ug/L
Vinyl chloride	MW-110A	4/06/2020		1.0	1.0	ug/L
Xylenes, total	MW-110A	4/04/2009		3.2	2.0	ug/L
Xylenes, total	MW-110A	4/04/2009		3.2	2.0	ug/L
Xylenes, total	MW-110A	6/09/2009		2.2	2.0	ug/L
Xylenes, total	MW-110A	7/09/2009		2.0	2.0	ug/L
Xylenes, total	MW-110A	10/09/2009		2.8	2.0	ug/L
Xylenes, total	MW-110A	10/09/2009		2.2	2.0	ug/L
Xylenes, total	MW-110A	4/10/2010		5.3	2.0	ug/L
Xylenes, total	MW-110A	4/13/2010		5.3	2.0	ug/L
Xylenes, total	MW-110A	4/01/2011		4.7	2.0	ug/L
Xylenes, total	MW-110A	4/11/2011		4.7	2.0	ug/L
Xylenes, total	MW-110A	4/13/2017		2.5	2.0	ug/L
Xylenes, total	MW-110A	10/15/2019		6.6	2.0	ug/L
Toluene	MW-2	4/09/2012		1.1	1.0	ug/L
Acetone	MW-2A	10/25/2017		13	10	ug/L
Trichloroethene	MW-2A	7/21/2015		3	1	ug/L
Acetone	MW-4	10/25/2017		12.7	10.0	ug/L
Bis(2-ethylhexyl) phthalate	MW-4	10/25/2022		10	6	ug/L
Carbon disulfide	MW-4	10/15/2014		1.7	1.0	ug/L
Bis(2-ethylhexyl) phthalate	SW-3A	4/04/2009		16	10	ug/L
Bis(2-ethylhexyl) phthalate	SW-3A	4/04/2009		16	8	ug/L
Bis(2-ethylhexyl) phthalate	SW-3A	6/09/2009		18	10	ug/L
Bis(2-ethylhexyl) phthalate	SW-3A	6/10/2010		10	10	ug/L
Bis(2-ethylhexyl) phthalate	SW-3A	6/29/2010		10	10	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 D

Assessment Statistics for Detected VOCs

Table 1

**Confidence Intervals for Comparing the Mean of the Last
4 Measurements to an Assessment Monitoring Standard**

Constituent	Units	Well	N	Mean	SD	Factor	95% LCL	95% UCL	Standard	Trend
1,1-dichloroethane	ug/L	MW-105B	4	0.500	0.000	1.176	0.500	0.500	140.000	
1,4-dichlorobenzene	ug/L	MW-105B	4	0.500	0.000	1.176	0.500	0.500	75.000	
Benzene	ug/L	MW-105B	4	0.500	0.000	1.176	0.500	0.500	5.000	
Bis(2-ethylhexyl) phthalate	ug/L	MW-105B	4	4.500	1.000	1.176	3.324	5.676	6.000	
Chlorobenzene	ug/L	MW-105B	4	0.500	0.000	1.176	0.500	0.500	100.000	
Chloroethane	ug/L	MW-105B	4	0.500	0.000	1.176	0.500	0.500	2800.000	
Vinyl chloride	ug/L	MW-105B	4	0.500	0.000	1.176	0.500	0.500	2.000	
1,1-dichloroethane	ug/L	MW-110A	4	0.850	0.412	1.176	0.365	1.335	140.000	
1,4-dichlorobenzene	ug/L	MW-110A	4	4.125	0.900	1.176	3.067	5.183	75.000	
Benzene	ug/L	MW-110A	4	2.475	0.746	1.176	1.598	3.352	5.000	
Bis(2-ethylhexyl) phthalate	ug/L	MW-110A	4	4.000	0.000	1.176	4.000	4.000	6.000	
Chlorobenzene	ug/L	MW-110A	4	5.800	1.577	1.176	3.945	7.655	100.000	
Chloroethane	ug/L	MW-110A	4	2.200	1.083	1.176	0.926	3.474	2800.000	
Vinyl chloride	ug/L	MW-110A	4	0.500	0.000	1.176	0.500	0.500	2.000	dec

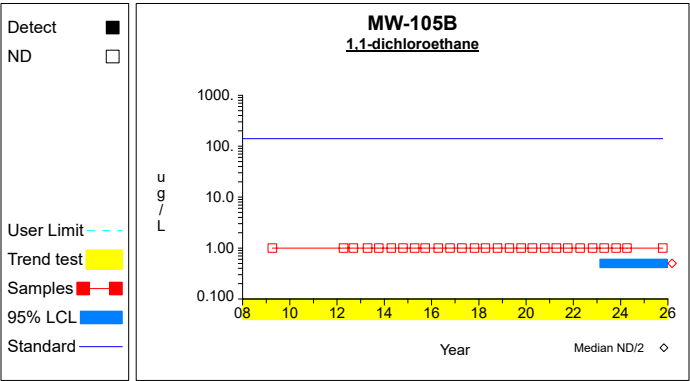
* - Insufficient Data

** - Significant Exceedance

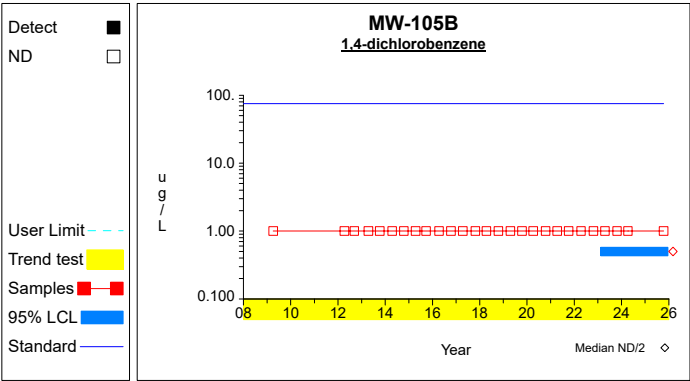
LCL = Lower Confidence Limit

UCL = Upper Confidence Limit

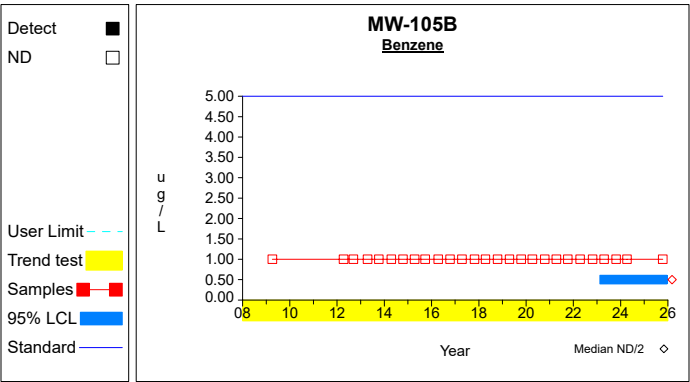
Confidence Limits (Assessment)



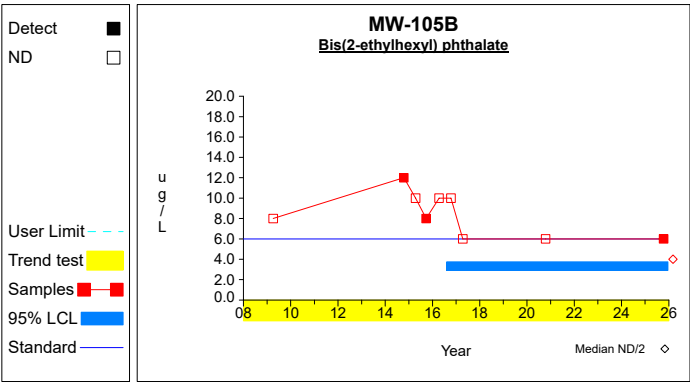
Graph 1



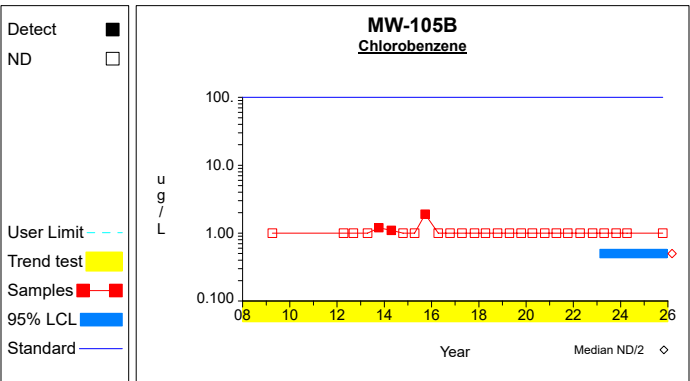
Graph 2



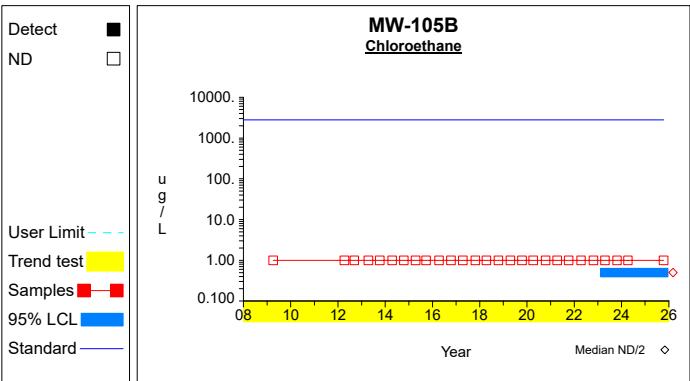
Graph 3



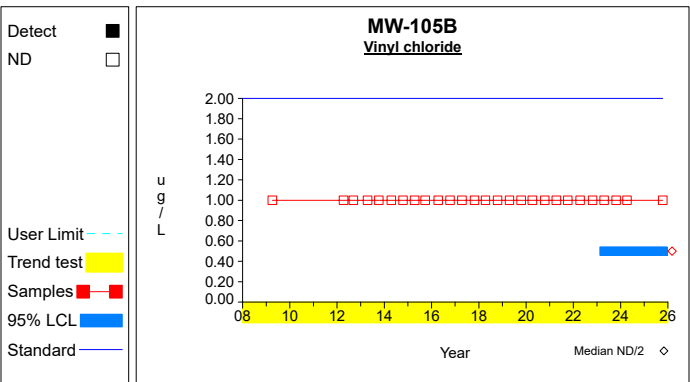
Graph 4



Graph 5

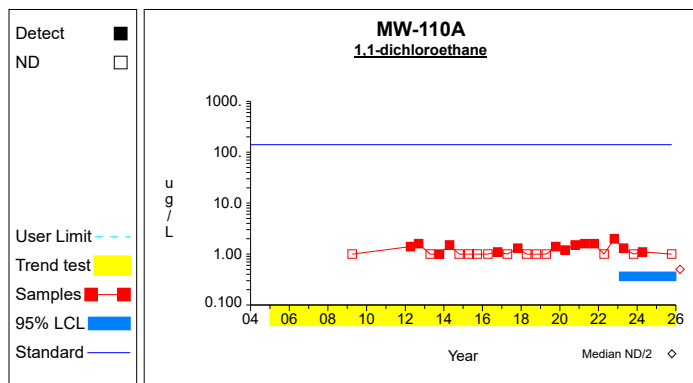


Graph 6

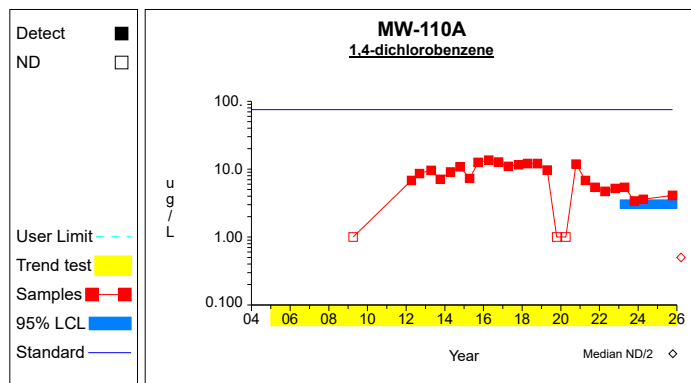


Graph 7

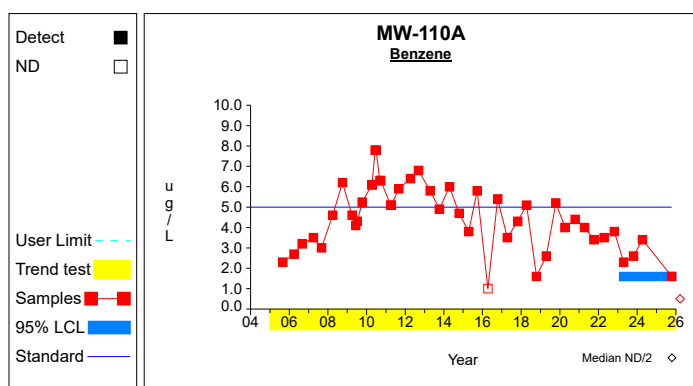
Confidence Limits (Assessment)



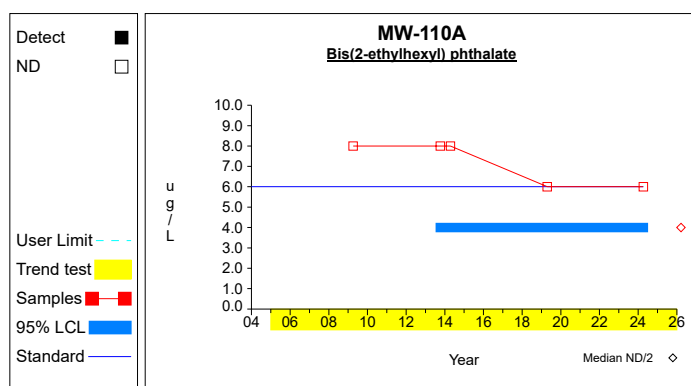
Graph 8



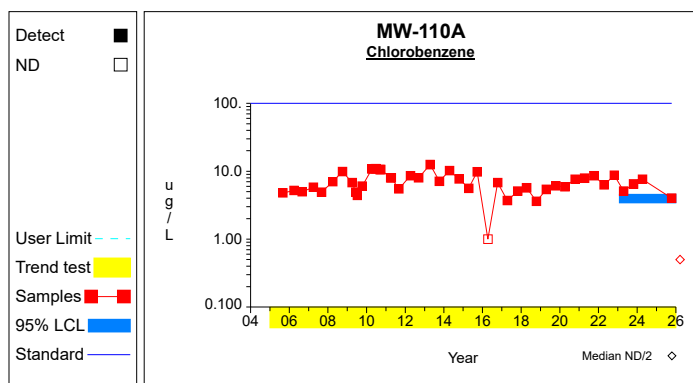
Graph 9



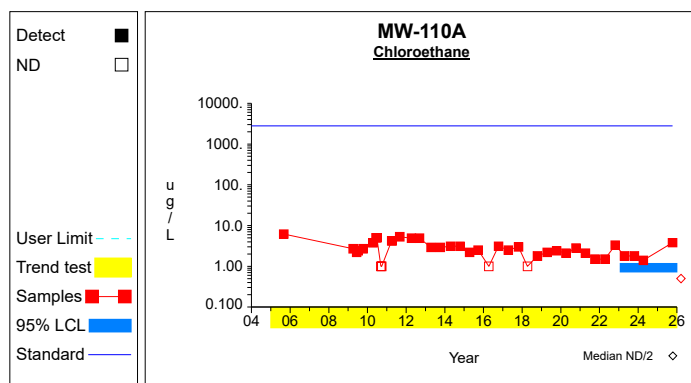
Graph 10



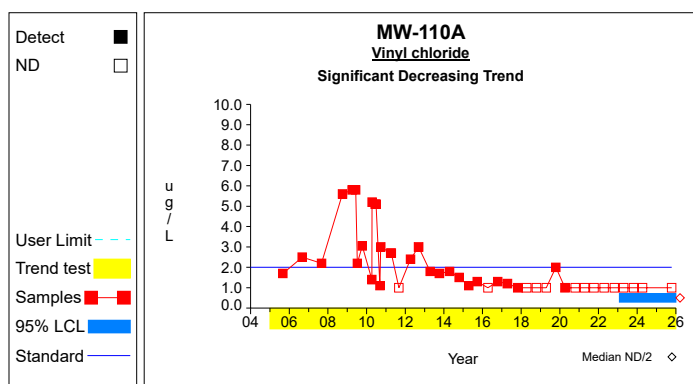
Graph 11



Graph 12



Graph 13



Graph 14

Appendix C

Laboratory Reports for Reporting Period *With Chain of Custody*



Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

1IJ1462

Project Description

6035

For:

Todd Whipple

HLW Engineering

204 West Broad St

Story City, IA 50248

Heather Murphy

Customer Relationship Specialist

Friday, October 31, 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

1IJ1462

HLW Engineering

Todd Whipple
204 West Broad St
Story City, IA 50248

Project Name: 6035

Project / PO Number: N/A
Received: 10/15/2025
Reported: 10/31/2025

Case Narrative

On the Field Duplicate, sample # 1IJ1462-08, there was a significant detect of Cadmium at 0.0825mg/L, that did not match any other client sample. The sample was re-analyzed and the Cadmium result for this sample was confirmed.

James Eggers
Quality Assurance Director

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-1	1IJ1462-01	Aqueous	GRAB		10/13/25 08:30	10/15/25 09:30
MW-2A	1IJ1462-02	Aqueous	GRAB		10/13/25 08:44	10/15/25 09:30
MW-3	1IJ1462-03	Aqueous	GRAB		10/13/25 09:46	10/15/25 09:30
MW-4	1IJ1462-04	Aqueous	GRAB		10/13/25 09:30	10/15/25 09:30
MW-105B	1IJ1462-05	Aqueous	GRAB		10/13/25 10:27	10/15/25 09:30
MW-108A	1IJ1462-06	Aqueous	GRAB		10/13/25 10:01	10/15/25 09:30
MW-110A	1IJ1462-07	Aqueous	GRAB		10/13/25 09:05	10/15/25 09:30
Duplicate	1IJ1462-08	Aqueous	GRAB		10/13/25 00:00	10/15/25 09:30



Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

1IJ1462

Analytical Testing Parameters

Client Sample ID: MW-1
Sample Matrix: Aqueous
Lab Sample ID: 1IJ1462-01

Collected By: Whipple, Todd
Collection Date: 10/13/2025 8:30

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 8260D							
Chloromethane	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1151	RAF
Vinyl Chloride	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1151	RAF
Bromomethane	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1151	RAF
Chloroethane	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1151	RAF
Trichlorofluoromethane	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1151	RAF
1,1-Dichloroethylene	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1151	RAF
Acetone	<10.0	10.0	ug/L		10/20/25 0000	10/20/25 1151	RAF
Methyl Iodide	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1151	RAF
Carbon Disulfide	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1151	RAF
Methylene Chloride	<5.0	5.0	ug/L		10/20/25 0000	10/20/25 1151	RAF
Acrylonitrile	<5.0	5.0	ug/L		10/20/25 0000	10/20/25 1151	RAF
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1151	RAF
1,1-Dichloroethane	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1151	RAF
Vinyl Acetate	<5.0	5.0	ug/L		10/20/25 0000	10/20/25 1151	RAF
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1151	RAF
2-Butanone (MEK)	<10.0	10.0	ug/L		10/20/25 0000	10/20/25 1151	RAF
Bromochloromethane	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1151	RAF
Chloroform	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1151	RAF
1,1,1-Trichloroethane	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1151	RAF
Carbon Tetrachloride	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1151	RAF
Benzene	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1151	RAF
1,2-Dichloroethane	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1151	RAF
Trichloroethylene	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1151	RAF
1,2-Dichloropropane	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1151	RAF
Dibromomethane	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1151	RAF
Bromodichloromethane	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1151	RAF
cis-1,3-Dichloropropene	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1151	RAF
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L		10/20/25 0000	10/20/25 1151	RAF
Toluene	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1151	RAF
trans-1,3-Dichloropropene	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1151	RAF
1,1,2-Trichloroethane	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1151	RAF
Tetrachloroethylene	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1151	RAF
2-Hexanone (MBK)	<5.0	5.0	ug/L		10/20/25 0000	10/20/25 1151	RAF
Dibromochloromethane	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1151	RAF
1,2-Dibromoethane	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1151	RAF
Chlorobenzene	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1151	RAF
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1151	RAF
Ethylbenzene	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1151	RAF
Xylenes, total	<2.0	2.0	ug/L		10/20/25 0000	10/20/25 1151	RAF
Styrene	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1151	RAF

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Page 3 of 58



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CERTIFICATE OF ANALYSIS

1IJ1462

Client Sample ID: MW-1
Sample Matrix: Aqueous
Lab Sample ID: 1IJ1462-01

Collected By: Whipple, Todd
Collection Date: 10/13/2025 8:30

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
Bromoform	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1151	RAF
1,2,3-Trichloropropane	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1151	RAF
trans-1,4-Dichloro-2-butene	<5.0	5.0	ug/L		10/20/25 0000	10/20/25 1151	RAF
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1151	RAF
1,4-Dichlorobenzene	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1151	RAF
1,2-Dichlorobenzene	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1151	RAF
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L		10/20/25 0000	10/20/25 1151	RAF
Surrogate: Dibromofluoromethane	94.6	Limit: 57-128	% Rec		10/20/25 0000	10/20/25 1151	RAF
Surrogate: Dibromofluoromethane	94.6	Limit: 75-136	% Rec		10/20/25 0000	10/20/25 1151	RAF
Surrogate: 1,2-Dichloroethane-d4	112	Limit: 49-135	% Rec		10/20/25 0000	10/20/25 1151	RAF
Surrogate: 1,2-Dichloroethane-d4	112	Limit: 61-142	% Rec		10/20/25 0000	10/20/25 1151	RAF
Surrogate: Toluene-d8	104	Limit: 82-116	% Rec		10/20/25 0000	10/20/25 1151	RAF
Surrogate: Toluene-d8	104	Limit: 82-121	% Rec		10/20/25 0000	10/20/25 1151	RAF
Surrogate: 4-Bromofluorobenzene	104	Limit: 77-114	% Rec		10/20/25 0000	10/20/25 1151	RAF
Surrogate: 4-Bromofluorobenzene	104	Limit: 80-116	% Rec		10/20/25 0000	10/20/25 1151	RAF

Determination of Total Metals	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A							
Antimony	<0.0010	0.0010	mg/L		10/20/25 0925	10/20/25 2040	RVV
Arsenic	<0.0020	0.0020	mg/L		10/20/25 0925	10/20/25 2040	RVV
Barium	0.354	0.0010	mg/L		10/20/25 0925	10/20/25 2040	RVV
Beryllium	<0.0005	0.0005	mg/L		10/20/25 0925	10/20/25 2040	RVV
Cadmium	<0.0002	0.0002	mg/L		10/20/25 0925	10/20/25 2040	RVV
Chromium	0.0010	0.0010	mg/L		10/20/25 0925	10/20/25 2040	RVV
Cobalt	<0.0005	0.0005	mg/L		10/20/25 0925	10/20/25 2040	RVV
Copper	<0.0050	0.0050	mg/L		10/20/25 0925	10/20/25 2040	RVV
Lead	<0.0010	0.0010	mg/L		10/20/25 0925	10/20/25 2040	RVV
Nickel	<0.0050	0.0050	mg/L		10/20/25 0925	10/20/25 2040	RVV
Selenium	<0.0020	0.0020	mg/L		10/20/25 0925	10/20/25 2040	RVV
Silver	<0.0050	0.0050	mg/L		10/20/25 0925	10/20/25 2040	RVV
Thallium	<0.0005	0.0005	mg/L		10/20/25 0925	10/20/25 2040	RVV
Vanadium	<0.0020	0.0020	mg/L		10/20/25 0925	10/20/25 2040	RVV
Zinc	<0.0050	0.0050	mg/L		10/20/25 0925	10/20/25 2040	RVV

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Page 4 of 58



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CERTIFICATE OF ANALYSIS

1IJ1462

Client Sample ID: MW-2A
Sample Matrix: Aqueous
Lab Sample ID: 1IJ1462-02

Collected By: Whipple, Todd
Collection Date: 10/13/2025 8:44

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 8260D							
Chloromethane	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1214	RAF
Vinyl Chloride	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1214	RAF
Bromomethane	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1214	RAF
Chloroethane	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1214	RAF
Trichlorofluoromethane	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1214	RAF
1,1-Dichloroethylene	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1214	RAF
Acetone	<10.0	10.0	ug/L		10/20/25 0000	10/20/25 1214	RAF
Methyl Iodide	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1214	RAF
Carbon Disulfide	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1214	RAF
Methylene Chloride	<5.0	5.0	ug/L		10/20/25 0000	10/20/25 1214	RAF
Acrylonitrile	<5.0	5.0	ug/L		10/20/25 0000	10/20/25 1214	RAF
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1214	RAF
1,1-Dichloroethane	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1214	RAF
Vinyl Acetate	<5.0	5.0	ug/L		10/20/25 0000	10/20/25 1214	RAF
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1214	RAF
2-Butanone (MEK)	<10.0	10.0	ug/L		10/20/25 0000	10/20/25 1214	RAF
Bromochloromethane	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1214	RAF
Chloroform	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1214	RAF
1,1,1-Trichloroethane	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1214	RAF
Carbon Tetrachloride	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1214	RAF
Benzene	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1214	RAF
1,2-Dichloroethane	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1214	RAF
Trichloroethylene	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1214	RAF
1,2-Dichloropropane	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1214	RAF
Dibromomethane	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1214	RAF
Bromodichloromethane	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1214	RAF
cis-1,3-Dichloropropene	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1214	RAF
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L		10/20/25 0000	10/20/25 1214	RAF
Toluene	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1214	RAF
trans-1,3-Dichloropropene	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1214	RAF
1,1,2-Trichloroethane	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1214	RAF
Tetrachloroethylene	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1214	RAF
2-Hexanone (MBK)	<5.0	5.0	ug/L		10/20/25 0000	10/20/25 1214	RAF
Dibromochloromethane	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1214	RAF
1,2-Dibromoethane	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1214	RAF
Chlorobenzene	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1214	RAF
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1214	RAF
Ethylbenzene	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1214	RAF
Xylenes, total	<2.0	2.0	ug/L		10/20/25 0000	10/20/25 1214	RAF
Styrene	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1214	RAF
Bromoform	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1214	RAF
1,2,3-Trichloropropane	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1214	RAF

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Page 5 of 58



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CERTIFICATE OF ANALYSIS

1IJ1462

Client Sample ID: MW-2A
Sample Matrix: Aqueous
Lab Sample ID: 1IJ1462-02

Collected By: Whipple, Todd
Collection Date: 10/13/2025 8:44

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
trans-1,4-Dichloro-2-butene	<5.0	5.0	ug/L		10/20/25 0000	10/20/25 1214	RAF
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1214	RAF
1,4-Dichlorobenzene	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1214	RAF
1,2-Dichlorobenzene	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1214	RAF
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L		10/20/25 0000	10/20/25 1214	RAF
Surrogate: Dibromofluoromethane	96.1	Limit: 75-136	% Rec		10/20/25 0000	10/20/25 1214	RAF
Surrogate: Dibromofluoromethane	96.1	Limit: 57-128	% Rec		10/20/25 0000	10/20/25 1214	RAF
Surrogate: 1,2-Dichloroethane-d4	116	Limit: 61-142	% Rec		10/20/25 0000	10/20/25 1214	RAF
Surrogate: 1,2-Dichloroethane-d4	116	Limit: 49-135	% Rec		10/20/25 0000	10/20/25 1214	RAF
Surrogate: Toluene-d8	102	Limit: 82-121	% Rec		10/20/25 0000	10/20/25 1214	RAF
Surrogate: Toluene-d8	102	Limit: 82-116	% Rec		10/20/25 0000	10/20/25 1214	RAF
Surrogate: 4-Bromofluorobenzene	98.3	Limit: 80-116	% Rec		10/20/25 0000	10/20/25 1214	RAF
Surrogate: 4-Bromofluorobenzene	98.3	Limit: 77-114	% Rec		10/20/25 0000	10/20/25 1214	RAF

Determination of Total Metals	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A							
Antimony	0.0011	0.0010	mg/L		10/20/25 0925	10/20/25 2050	RVV
Arsenic	<0.0020	0.0020	mg/L		10/20/25 0925	10/20/25 2050	RVV
Barium	0.0690	0.0010	mg/L		10/20/25 0925	10/20/25 2050	RVV
Beryllium	<0.0005	0.0005	mg/L		10/20/25 0925	10/20/25 2050	RVV
Cadmium	<0.0002	0.0002	mg/L		10/20/25 0925	10/20/25 2050	RVV
Chromium	0.0013	0.0010	mg/L		10/20/25 0925	10/20/25 2050	RVV
Cobalt	<0.0005	0.0005	mg/L		10/20/25 0925	10/20/25 2050	RVV
Copper	<0.0050	0.0050	mg/L		10/20/25 0925	10/20/25 2050	RVV
Lead	<0.0010	0.0010	mg/L		10/20/25 0925	10/20/25 2050	RVV
Nickel	<0.0050	0.0050	mg/L		10/20/25 0925	10/20/25 2050	RVV
Selenium	<0.0020	0.0020	mg/L		10/20/25 0925	10/20/25 2050	RVV
Silver	<0.0050	0.0050	mg/L		10/20/25 0925	10/20/25 2050	RVV
Thallium	<0.0005	0.0005	mg/L		10/20/25 0925	10/20/25 2050	RVV
Vanadium	<0.0020	0.0020	mg/L		10/20/25 0925	10/20/25 2050	RVV
Zinc	0.0156	0.0050	mg/L		10/20/25 0925	10/20/25 2050	RVV

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Page 6 of 58



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CERTIFICATE OF ANALYSIS

1IJ1462

Client Sample ID: MW-3
Sample Matrix: Aqueous
Lab Sample ID: 1IJ1462-03

Collected By: Whipple, Todd
Collection Date: 10/13/2025 9:46

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 8260D							
Chloromethane	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1237	RAF
Vinyl Chloride	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1237	RAF
Bromomethane	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1237	RAF
Chloroethane	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1237	RAF
Trichlorofluoromethane	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1237	RAF
1,1-Dichloroethylene	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1237	RAF
Acetone	<10.0	10.0	ug/L		10/20/25 0000	10/20/25 1237	RAF
Methyl Iodide	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1237	RAF
Carbon Disulfide	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1237	RAF
Methylene Chloride	<5.0	5.0	ug/L		10/20/25 0000	10/20/25 1237	RAF
Acrylonitrile	<5.0	5.0	ug/L		10/20/25 0000	10/20/25 1237	RAF
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1237	RAF
1,1-Dichloroethane	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1237	RAF
Vinyl Acetate	<5.0	5.0	ug/L		10/20/25 0000	10/20/25 1237	RAF
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1237	RAF
2-Butanone (MEK)	<10.0	10.0	ug/L		10/20/25 0000	10/20/25 1237	RAF
Bromochloromethane	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1237	RAF
Chloroform	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1237	RAF
1,1,1-Trichloroethane	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1237	RAF
Carbon Tetrachloride	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1237	RAF
Benzene	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1237	RAF
1,2-Dichloroethane	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1237	RAF
Trichloroethylene	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1237	RAF
1,2-Dichloropropane	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1237	RAF
Dibromomethane	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1237	RAF
Bromodichloromethane	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1237	RAF
cis-1,3-Dichloropropene	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1237	RAF
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L		10/20/25 0000	10/20/25 1237	RAF
Toluene	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1237	RAF
trans-1,3-Dichloropropene	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1237	RAF
1,1,2-Trichloroethane	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1237	RAF
Tetrachloroethylene	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1237	RAF
2-Hexanone (MBK)	<5.0	5.0	ug/L		10/20/25 0000	10/20/25 1237	RAF
Dibromochloromethane	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1237	RAF
1,2-Dibromoethane	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1237	RAF
Chlorobenzene	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1237	RAF
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1237	RAF
Ethylbenzene	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1237	RAF
Xylenes, total	<2.0	2.0	ug/L		10/20/25 0000	10/20/25 1237	RAF
Styrene	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1237	RAF
Bromoform	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1237	RAF
1,2,3-Trichloropropane	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1237	RAF

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Page 7 of 58



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CERTIFICATE OF ANALYSIS

1IJ1462

Client Sample ID: MW-3
Sample Matrix: Aqueous
Lab Sample ID: 1IJ1462-03

Collected By: Whipple, Todd
Collection Date: 10/13/2025 9:46

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
trans-1,4-Dichloro-2-butene	<5.0	5.0	ug/L		10/20/25 0000	10/20/25 1237	RAF
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1237	RAF
1,4-Dichlorobenzene	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1237	RAF
1,2-Dichlorobenzene	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1237	RAF
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L		10/20/25 0000	10/20/25 1237	RAF
Surrogate: Dibromofluoromethane	94.2	Limit: 75-136	% Rec		10/20/25 0000	10/20/25 1237	RAF
Surrogate: Dibromofluoromethane	94.2	Limit: 57-128	% Rec		10/20/25 0000	10/20/25 1237	RAF
Surrogate: 1,2-Dichloroethane-d4	115	Limit: 49-135	% Rec		10/20/25 0000	10/20/25 1237	RAF
Surrogate: 1,2-Dichloroethane-d4	115	Limit: 61-142	% Rec		10/20/25 0000	10/20/25 1237	RAF
Surrogate: Toluene-d8	102	Limit: 82-121	% Rec		10/20/25 0000	10/20/25 1237	RAF
Surrogate: Toluene-d8	102	Limit: 82-116	% Rec		10/20/25 0000	10/20/25 1237	RAF
Surrogate: 4-Bromofluorobenzene	103	Limit: 80-116	% Rec		10/20/25 0000	10/20/25 1237	RAF
Surrogate: 4-Bromofluorobenzene	103	Limit: 77-114	% Rec		10/20/25 0000	10/20/25 1237	RAF

Determination of Total Metals	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A							
Antimony	<0.0010	0.0010	mg/L		10/20/25 0925	10/20/25 2053	RVV
Arsenic	<0.0020	0.0020	mg/L		10/20/25 0925	10/20/25 2053	RVV
Barium	0.0605	0.0010	mg/L		10/20/25 0925	10/20/25 2053	RVV
Beryllium	<0.0005	0.0005	mg/L		10/20/25 0925	10/20/25 2053	RVV
Cadmium	0.0005	0.0002	mg/L		10/20/25 0925	10/20/25 2053	RVV
Chromium	0.0011	0.0010	mg/L		10/20/25 0925	10/20/25 2053	RVV
Cobalt	<0.0005	0.0005	mg/L		10/20/25 0925	10/20/25 2053	RVV
Copper	<0.0050	0.0050	mg/L		10/20/25 0925	10/20/25 2053	RVV
Lead	<0.0010	0.0010	mg/L		10/20/25 0925	10/20/25 2053	RVV
Nickel	<0.0050	0.0050	mg/L		10/20/25 0925	10/20/25 2053	RVV
Selenium	<0.0020	0.0020	mg/L		10/20/25 0925	10/20/25 2053	RVV
Silver	<0.0050	0.0050	mg/L		10/20/25 0925	10/20/25 2053	RVV
Thallium	<0.0005	0.0005	mg/L		10/20/25 0925	10/20/25 2053	RVV
Vanadium	<0.0020	0.0020	mg/L		10/20/25 0925	10/20/25 2053	RVV
Zinc	0.0063	0.0050	mg/L		10/20/25 0925	10/20/25 2053	RVV

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Page 8 of 58



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CERTIFICATE OF ANALYSIS

1IJ1462

Client Sample ID: MW-4
Sample Matrix: Aqueous
Lab Sample ID: 1IJ1462-04

Collected By: Whipple, Todd
Collection Date: 10/13/2025 9:30

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 8260D							
Chloromethane	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1259	RAF
Vinyl Chloride	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1259	RAF
Bromomethane	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1259	RAF
Chloroethane	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1259	RAF
Trichlorofluoromethane	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1259	RAF
1,1-Dichloroethylene	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1259	RAF
Acetone	<10.0	10.0	ug/L		10/20/25 0000	10/20/25 1259	RAF
Methyl Iodide	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1259	RAF
Carbon Disulfide	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1259	RAF
Methylene Chloride	<5.0	5.0	ug/L		10/20/25 0000	10/20/25 1259	RAF
Acrylonitrile	<5.0	5.0	ug/L		10/20/25 0000	10/20/25 1259	RAF
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1259	RAF
1,1-Dichloroethane	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1259	RAF
Vinyl Acetate	<5.0	5.0	ug/L		10/20/25 0000	10/20/25 1259	RAF
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1259	RAF
2-Butanone (MEK)	<10.0	10.0	ug/L		10/20/25 0000	10/20/25 1259	RAF
Bromochloromethane	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1259	RAF
Chloroform	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1259	RAF
1,1,1-Trichloroethane	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1259	RAF
Carbon Tetrachloride	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1259	RAF
Benzene	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1259	RAF
1,2-Dichloroethane	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1259	RAF
Trichloroethylene	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1259	RAF
1,2-Dichloropropane	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1259	RAF
Dibromomethane	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1259	RAF
Bromodichloromethane	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1259	RAF
cis-1,3-Dichloropropene	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1259	RAF
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L		10/20/25 0000	10/20/25 1259	RAF
Toluene	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1259	RAF
trans-1,3-Dichloropropene	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1259	RAF
1,1,2-Trichloroethane	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1259	RAF
Tetrachloroethylene	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1259	RAF
2-Hexanone (MBK)	<5.0	5.0	ug/L		10/20/25 0000	10/20/25 1259	RAF
Dibromochloromethane	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1259	RAF
1,2-Dibromoethane	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1259	RAF
Chlorobenzene	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1259	RAF
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1259	RAF
Ethylbenzene	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1259	RAF
Xylenes, total	<2.0	2.0	ug/L		10/20/25 0000	10/20/25 1259	RAF
Styrene	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1259	RAF
Bromoform	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1259	RAF
1,2,3-Trichloropropane	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1259	RAF

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CERTIFICATE OF ANALYSIS

1IJ1462

Client Sample ID: MW-4
Sample Matrix: Aqueous
Lab Sample ID: 1IJ1462-04

Collected By: Whipple, Todd
Collection Date: 10/13/2025 9:30

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
trans-1,4-Dichloro-2-butene	<5.0	5.0	ug/L		10/20/25 0000	10/20/25 1259	RAF
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1259	RAF
1,4-Dichlorobenzene	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1259	RAF
1,2-Dichlorobenzene	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1259	RAF
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L		10/20/25 0000	10/20/25 1259	RAF
Surrogate: Dibromofluoromethane	98.5	Limit: 75-136	% Rec		10/20/25 0000	10/20/25 1259	RAF
Surrogate: Dibromofluoromethane	98.5	Limit: 57-128	% Rec		10/20/25 0000	10/20/25 1259	RAF
Surrogate: 1,2-Dichloroethane-d4	117	Limit: 61-142	% Rec		10/20/25 0000	10/20/25 1259	RAF
Surrogate: 1,2-Dichloroethane-d4	117	Limit: 49-135	% Rec		10/20/25 0000	10/20/25 1259	RAF
Surrogate: Toluene-d8	103	Limit: 82-121	% Rec		10/20/25 0000	10/20/25 1259	RAF
Surrogate: Toluene-d8	103	Limit: 82-116	% Rec		10/20/25 0000	10/20/25 1259	RAF
Surrogate: 4-Bromofluorobenzene	103	Limit: 80-116	% Rec		10/20/25 0000	10/20/25 1259	RAF
Surrogate: 4-Bromofluorobenzene	103	Limit: 77-114	% Rec		10/20/25 0000	10/20/25 1259	RAF

Determination of Total Metals	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A							
Antimony	<0.0010	0.0010	mg/L		10/20/25 0925	10/20/25 2055	RVV
Arsenic	<0.0020	0.0020	mg/L		10/20/25 0925	10/20/25 2055	RVV
Barium	0.144	0.0010	mg/L		10/20/25 0925	10/20/25 2055	RVV
Beryllium	<0.0005	0.0005	mg/L		10/20/25 0925	10/20/25 2055	RVV
Cadmium	<0.0002	0.0002	mg/L		10/20/25 0925	10/20/25 2055	RVV
Chromium	0.0012	0.0010	mg/L		10/20/25 0925	10/20/25 2055	RVV
Cobalt	0.0008	0.0005	mg/L		10/20/25 0925	10/20/25 2055	RVV
Copper	<0.0050	0.0050	mg/L		10/20/25 0925	10/20/25 2055	RVV
Lead	<0.0010	0.0010	mg/L		10/20/25 0925	10/20/25 2055	RVV
Nickel	<0.0050	0.0050	mg/L		10/20/25 0925	10/20/25 2055	RVV
Selenium	<0.0020	0.0020	mg/L		10/20/25 0925	10/20/25 2055	RVV
Silver	<0.0050	0.0050	mg/L		10/20/25 0925	10/20/25 2055	RVV
Thallium	<0.0005	0.0005	mg/L		10/20/25 0925	10/20/25 2055	RVV
Vanadium	0.0029	0.0020	mg/L		10/20/25 0925	10/20/25 2055	RVV
Zinc	0.0060	0.0050	mg/L		10/20/25 0925	10/20/25 2055	RVV

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Page 10 of 58



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CERTIFICATE OF ANALYSIS

1IJ1462

Client Sample ID: MW-105B
Sample Matrix: Aqueous
Lab Sample ID: 1IJ1462-05

Collected By: Whipple, Todd
Collection Date: 10/13/2025 10:27

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 8260D							
Dichlorodifluoromethane	<1.0	1.0	ug/L		10/24/25 0000	10/24/25 1215	RAF
Chloromethane	<1.0	1.0	ug/L		10/24/25 0000	10/24/25 1215	RAF
Vinyl Chloride	<1.0	1.0	ug/L		10/24/25 0000	10/24/25 1215	RAF
Bromomethane	<1.0	1.0	ug/L		10/24/25 0000	10/24/25 1215	RAF
Chloroethane	<1.0	1.0	ug/L		10/24/25 0000	10/24/25 1215	RAF
Trichlorofluoromethane	<1.0	1.0	ug/L		10/24/25 0000	10/24/25 1215	RAF
Acrolein	<10.0	10.0	ug/L		10/20/25 0000	10/20/25 1322	RAF
1,1-Dichloroethylene	<1.0	1.0	ug/L		10/24/25 0000	10/24/25 1215	RAF
Acetone	<10.0	10.0	ug/L		10/24/25 0000	10/24/25 1215	RAF
Methyl Iodide	<2.0	2.0	ug/L		10/24/25 0000	10/24/25 1215	RAF
Carbon Disulfide	<1.0	1.0	ug/L		10/24/25 0000	10/24/25 1215	RAF
Acetonitrile	<10.0	10.0	ug/L		10/24/25 0000	10/24/25 1215	RAF
Methylene Chloride	<5.0	5.0	ug/L		10/24/25 0000	10/24/25 1215	RAF
Acrylonitrile	<5.0	5.0	ug/L		10/20/25 0000	10/20/25 1322	RAF
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L		10/24/25 0000	10/24/25 1215	RAF
1,1-Dichloroethane	<1.0	1.0	ug/L		10/24/25 0000	10/24/25 1215	RAF
Vinyl Acetate	<5.0	5.0	ug/L		10/24/25 0000	10/24/25 1215	RAF
2,2-Dichloropropane	<1.0	1.0	ug/L		10/24/25 0000	10/24/25 1215	RAF
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L		10/24/25 0000	10/24/25 1215	RAF
2-Butanone (MEK)	<5.0	5.0	ug/L		10/24/25 0000	10/24/25 1215	RAF
Bromochloromethane	<1.0	1.0	ug/L		10/24/25 0000	10/24/25 1215	RAF
Chloroform	<1.0	1.0	ug/L		10/24/25 0000	10/24/25 1215	RAF
1,1,1-Trichloroethane	<1.0	1.0	ug/L		10/24/25 0000	10/24/25 1215	RAF
1,1-Dichloropropene	<1.0	1.0	ug/L		10/24/25 0000	10/24/25 1215	RAF
Carbon Tetrachloride	<1.0	1.0	ug/L		10/24/25 0000	10/24/25 1215	RAF
Benzene	<1.0	1.0	ug/L		10/24/25 0000	10/24/25 1215	RAF
1,2-Dichloroethane	<1.0	1.0	ug/L		10/24/25 0000	10/24/25 1215	RAF
Trichloroethylene	<1.0	1.0	ug/L		10/24/25 0000	10/24/25 1215	RAF
1,2-Dichloropropane	<1.0	1.0	ug/L		10/24/25 0000	10/24/25 1215	RAF
Dibromomethane	<1.0	1.0	ug/L		10/24/25 0000	10/24/25 1215	RAF
Bromodichloromethane	<1.0	1.0	ug/L		10/24/25 0000	10/24/25 1215	RAF
cis-1,3-Dichloropropene	<1.0	1.0	ug/L		10/24/25 0000	10/24/25 1215	RAF
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L		10/24/25 0000	10/24/25 1215	RAF
Toluene	<1.0	1.0	ug/L		10/24/25 0000	10/24/25 1215	RAF
trans-1,3-Dichloropropene	<1.0	1.0	ug/L		10/24/25 0000	10/24/25 1215	RAF
Ethyl Methacrylate	<10.0	10.0	ug/L		10/24/25 0000	10/24/25 1215	RAF
1,1,2-Trichloroethane	<1.0	1.0	ug/L		10/24/25 0000	10/24/25 1215	RAF
Tetrachloroethylene	<1.0	1.0	ug/L		10/24/25 0000	10/24/25 1215	RAF
1,3-Dichloropropane	<1.0	1.0	ug/L		10/24/25 0000	10/24/25 1215	RAF
2-Hexanone (MBK)	<5.0	5.0	ug/L		10/24/25 0000	10/24/25 1215	RAF
Dibromochloromethane	<1.0	1.0	ug/L		10/24/25 0000	10/24/25 1215	RAF
1,2-Dibromoethane	<1.0	1.0	ug/L		10/24/25 0000	10/24/25 1215	RAF

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CERTIFICATE OF ANALYSIS

1IJ1462

Client Sample ID: MW-105B
Sample Matrix: Aqueous
Lab Sample ID: 1IJ1462-05

Collected By: Whipple, Todd
Collection Date: 10/13/2025 10:27

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
Chlorobenzene	<1.0	1.0	ug/L		10/24/25 0000	10/24/25 1215	RAF
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L		10/24/25 0000	10/24/25 1215	RAF
Ethylbenzene	<1.0	1.0	ug/L		10/24/25 0000	10/24/25 1215	RAF
Xylenes, total	<2.0	2.0	ug/L		10/24/25 0000	10/24/25 1215	RAF
Styrene	<1.0	1.0	ug/L		10/24/25 0000	10/24/25 1215	RAF
Bromoform	<1.0	1.0	ug/L		10/24/25 0000	10/24/25 1215	RAF
1,2,3-Trichloropropane	<1.0	1.0	ug/L		10/24/25 0000	10/24/25 1215	RAF
trans-1,4-Dichloro-2-butene	<5.0	5.0	ug/L		10/24/25 0000	10/24/25 1215	RAF
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L		10/24/25 0000	10/24/25 1215	RAF
1,3-Dichlorobenzene	<1.0	1.0	ug/L		10/24/25 0000	10/24/25 1215	RAF
1,4-Dichlorobenzene	<1.0	1.0	ug/L		10/24/25 0000	10/24/25 1215	RAF
1,2-Dichlorobenzene	<1.0	1.0	ug/L		10/24/25 0000	10/24/25 1215	RAF
1,2-Dibromo-3-chloropropane	<1.0	1.0	ug/L		10/24/25 0000	10/24/25 1215	RAF
1,2,4-Trichlorobenzene	<1.0	1.0	ug/L		10/24/25 0000	10/24/25 1215	RAF
Allyl chloride	<1.0	1.0	ug/L		10/27/25 0000	10/27/25 1840	RAF
Chloroprene	<1.0	1.0	ug/L		10/27/25 0000	10/27/25 1840	RAF
Methacrylonitrile	<1.0	1.0	ug/L		10/27/25 0000	10/27/25 1840	RAF
Methyl Methacrylate	<1.0	1.0	ug/L		10/27/25 0000	10/27/25 1840	RAF
Propionitrile	<10.0	10.0	ug/L		10/27/25 0000	10/27/25 1840	RAF
Surrogate: Dibromofluoromethane	92.2	Limit: 57-128	% Rec		10/24/25 0000	10/24/25 1215	RAF
Surrogate: Dibromofluoromethane	104	Limit: 57-128	% Rec		10/27/25 0000	10/27/25 1840	RAF
Surrogate: 1,2-Dichloroethane-d4	116	Limit: 49-135	% Rec		10/24/25 0000	10/24/25 1215	RAF
Surrogate: 1,2-Dichloroethane-d4	113	Limit: 49-135	% Rec		10/27/25 0000	10/27/25 1840	RAF
Surrogate: 1,2-Dichloroethane-d4	118	Limit: 49-135	% Rec		10/20/25 0000	10/20/25 1322	RAF
Surrogate: Toluene-d8	102	Limit: 82-116	% Rec		10/24/25 0000	10/24/25 1215	RAF
Surrogate: Toluene-d8	104	Limit: 82-116	% Rec		10/27/25 0000	10/27/25 1840	RAF
Surrogate: Toluene-d8	103	Limit: 82-116	% Rec		10/20/25 0000	10/20/25 1322	RAF
Surrogate: 4-Bromofluorobenzene	102	Limit: 77-114	% Rec		10/20/25 0000	10/20/25 1322	RAF
Surrogate: 4-Bromofluorobenzene	97.3	Limit: 77-114	% Rec		10/27/25 0000	10/27/25 1840	RAF
Surrogate: 4-Bromofluorobenzene	101	Limit: 77-114	% Rec		10/24/25 0000	10/24/25 1215	RAF

Determination of General Solvents	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 8015C							
Isobutanol	<1.0	1.0	mg/L		10/24/25 1119	10/24/25 2321	PDS

Determination of Base/Neutral/Acid Extractable Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 3520C/EPA 8270C							
N-Nitrosodimethylamine	<8	8	ug/L		10/20/25 0941	10/29/25 1218	EPP
Methyl Methanesulfonate	<8	8	ug/L		10/20/25 0941	10/29/25 1218	EPP
N-Nitrosodiethylamine	<8	8	ug/L		10/20/25 0941	10/29/25 1218	EPP
N-Nitrosomethylethylamine	<8	8	ug/L		10/20/25 0941	10/29/25 1218	EPP
Ethyl Methanesulfonate	<8	8	ug/L		10/20/25 0941	10/29/25 1218	EPP
Phenol	<8	8	ug/L		10/20/25 0941	10/29/25 1218	EPP



Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

1IJ1462

Client Sample ID: MW-105B
Sample Matrix: Aqueous
Lab Sample ID: 1IJ1462-05

Collected By: Whipple, Todd
Collection Date: 10/13/2025 10:27

Determination of Base/Neutral/Acid Extractable Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
Bis(2-Chloroethyl) Ether	<8	8	ug/L		10/20/25 0941	10/29/25 1218	EPP
2-Chlorophenol	<8	8	ug/L		10/20/25 0941	10/29/25 1218	EPP
Benzyl Alcohol	<8	8	ug/L		10/20/25 0941	10/29/25 1218	EPP
2-Methylphenol (o-Cresol)	<8	8	ug/L		10/20/25 0941	10/29/25 1218	EPP
Bis[2-Chloroisopropyl]ether	<8	8	ug/L		10/20/25 0941	10/29/25 1218	EPP
n-Nitroso-di-n-propylamine	<8	8	ug/L		10/20/25 0941	10/29/25 1218	EPP
N-Nitrosopyrrolidine	<8	8	ug/L		10/20/25 0941	10/29/25 1218	EPP
Acetophenone	<8	8	ug/L		10/20/25 0941	10/29/25 1218	EPP
o-Toluidine	<8	8	ug/L		10/20/25 0941	10/29/25 1218	EPP
(3 & 4)-Methylphenol	<8	8	ug/L		10/20/25 0941	10/29/25 1218	EPP
Hexachloroethane	<8	8	ug/L		10/20/25 0941	10/29/25 1218	EPP
Nitrobenzene	<8	8	ug/L		10/20/25 0941	10/29/25 1218	EPP
N-Nitrosopiperidine	<8	8	ug/L		10/20/25 0941	10/29/25 1218	EPP
Isophorone	<8	8	ug/L		10/20/25 0941	10/29/25 1218	EPP
2-Nitrophenol	<8	8	ug/L		10/20/25 0941	10/29/25 1218	EPP
2,4-Dimethylphenol	<8	8	ug/L		10/20/25 0941	10/29/25 1218	EPP
Bis (2-Chloroethoxy) Methane	<8	8	ug/L		10/20/25 0941	10/29/25 1218	EPP
2,4-Dichlorophenol	<8	8	ug/L		10/20/25 0941	10/29/25 1218	EPP
Naphthalene	<8	8	ug/L		10/20/25 0941	10/29/25 1218	EPP
4-Chloroaniline	<8	8	ug/L		10/20/25 0941	10/29/25 1218	EPP
2,6-Dichlorophenol	<8	8	ug/L		10/20/25 0941	10/29/25 1218	EPP
Hexachloropropene	<8	8	ug/L		10/20/25 0941	10/29/25 1218	EPP
Hexachlorobutadiene	<8	8	ug/L		10/20/25 0941	10/29/25 1218	EPP
N-Nitrosodi-n-butylamine	<8	8	ug/L		10/20/25 0941	10/29/25 1218	EPP
1,4-Phenylenediamine	<8	8	ug/L	Q3	10/20/25 0941	10/29/25 1218	EPP
4-Chloro-3-methylphenol	<8	8	ug/L		10/20/25 0941	10/29/25 1218	EPP
2-Methylnaphthalene	<8	8	ug/L		10/20/25 0941	10/29/25 1218	EPP
Isosafrole	<8	8	ug/L		10/20/25 0941	10/29/25 1218	EPP
1,2,4,5-Tetrachlorobenzene	<8	8	ug/L		10/20/25 0941	10/29/25 1218	EPP
Hexachlorocyclopentadiene	<8	8	ug/L		10/20/25 0941	10/29/25 1218	EPP
2,4,6-Trichlorophenol	<8	8	ug/L		10/20/25 0941	10/29/25 1218	EPP
2,4,5-Trichlorophenol	<8	8	ug/L		10/20/25 0941	10/29/25 1218	EPP
Safrole	<8	8	ug/L		10/20/25 0941	10/29/25 1218	EPP
2-Chloronaphthalene	<8	8	ug/L		10/20/25 0941	10/29/25 1218	EPP
2-Nitroaniline	<8	8	ug/L		10/20/25 0941	10/29/25 1218	EPP
1,4-Naphthoquinone	<8	8	ug/L		10/20/25 0941	10/29/25 1218	EPP
Dimethylphthalate	<8	8	ug/L		10/20/25 0941	10/29/25 1218	EPP
1,3-Dinitrobenzene	<8	8	ug/L		10/20/25 0941	10/29/25 1218	EPP
1,2-Dinitrobenzene	<8	8	ug/L		10/20/25 0941	10/29/25 1218	EPP
2,6-Dinitrotoluene	<8	8	ug/L		10/20/25 0941	10/29/25 1218	EPP
Acenaphthylene	<8	8	ug/L		10/20/25 0941	10/29/25 1218	EPP
3-Nitroaniline	<8	8	ug/L		10/20/25 0941	10/29/25 1218	EPP
Acenaphthene	<8	8	ug/L		10/20/25 0941	10/29/25 1218	EPP

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CERTIFICATE OF ANALYSIS

1IJ1462

Client Sample ID: MW-105B
Sample Matrix: Aqueous
Lab Sample ID: 1IJ1462-05

Collected By: Whipple, Todd
Collection Date: 10/13/2025 10:27

Determination of Base/Neutral/Acid Extractable Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
2,4-Dinitrophenol	<8	8	ug/L		10/20/25 0941	10/29/25 1218	EPP
4-Nitrophenol	<8	8	ug/L		10/20/25 0941	10/29/25 1218	EPP
Dibenzofuran	<8	8	ug/L		10/20/25 0941	10/29/25 1218	EPP
2,4-Dinitrotoluene	<8	8	ug/L		10/20/25 0941	10/29/25 1218	EPP
2,3,4,6-Tetrachlorophenol	<8	8	ug/L		10/20/25 0941	10/29/25 1218	EPP
Pentachlorobenzene	<8	8	ug/L		10/20/25 0941	10/29/25 1218	EPP
1-Naphthylamine	<8	8	ug/L	Q3	10/20/25 0941	10/29/25 1218	EPP
2-Naphthylamine	<8	8	ug/L	Q3	10/20/25 0941	10/29/25 1218	EPP
Diethyl Phthalate	<8	8	ug/L		10/20/25 0941	10/29/25 1218	EPP
Fluorene	<8	8	ug/L		10/20/25 0941	10/29/25 1218	EPP
4-Chlorophenyl Phenyl Ether	<8	8	ug/L		10/20/25 0941	10/29/25 1218	EPP
4-Nitroaniline	<8	8	ug/L		10/20/25 0941	10/29/25 1218	EPP
5-Nitro-o-toluidine	<8	8	ug/L		10/20/25 0941	10/29/25 1218	EPP
4,6-Dinitro-2-methylphenol	<8	8	ug/L		10/20/25 0941	10/29/25 1218	EPP
N-Nitrosodiphenylamine	<8	8	ug/L		10/20/25 0941	10/29/25 1218	EPP
Diphenylamine	<8	8	ug/L		10/20/25 0941	10/29/25 1218	EPP
Azobenzene	<8	8	ug/L		10/20/25 0941	10/29/25 1218	EPP
Diallate	<8	8	ug/L		10/20/25 0941	10/29/25 1218	EPP
1,3,5-Trinitrobenzene	<8	8	ug/L		10/20/25 0941	10/29/25 1218	EPP
Phenacetin	<8	8	ug/L		10/20/25 0941	10/29/25 1218	EPP
4-Bromophenyl Phenyl Ether	<8	8	ug/L		10/20/25 0941	10/29/25 1218	EPP
4-Aminobiphenyl	<8	8	ug/L	Q3	10/20/25 0941	10/29/25 1218	EPP
Pentachlorophenol	<8	8	ug/L		10/20/25 0941	10/29/25 1218	EPP
Pronamide	<8	8	ug/L		10/20/25 0941	10/29/25 1218	EPP
Pentachloronitrobenzene (PCNB)	<8	8	ug/L		10/20/25 0941	10/29/25 1218	EPP
Phenanthrene	<8	8	ug/L		10/20/25 0941	10/29/25 1218	EPP
Anthracene	<8	8	ug/L		10/20/25 0941	10/29/25 1218	EPP
Di-n-butyl Phthalate	<8	8	ug/L		10/20/25 0941	10/29/25 1218	EPP
Methapyrilene	<8	8	ug/L	Q3	10/20/25 0941	10/29/25 1218	EPP
Fluoranthene	<8	8	ug/L		10/20/25 0941	10/29/25 1218	EPP
Isodrin	<8	8	ug/L		10/20/25 0941	10/29/25 1218	EPP
Chlorobenzilate	<8	8	ug/L		10/20/25 0941	10/29/25 1218	EPP
Pyrene	<8	8	ug/L		10/20/25 0941	10/29/25 1218	EPP
p-(Dimethylamino)azobenzene	<8	8	ug/L		10/20/25 0941	10/29/25 1218	EPP
3,3-Dimethylbenzidine	<8	8	ug/L		10/20/25 0941	10/29/25 1218	EPP
Butyl Benzyl Phthalate	<8	8	ug/L		10/20/25 0941	10/29/25 1218	EPP
Benzo(a)anthracene	<8	8	ug/L		10/20/25 0941	10/29/25 1218	EPP
Chrysene	<8	8	ug/L		10/20/25 0941	10/29/25 1218	EPP
Bis(2-Ethylhexyl) Phthalate	6	6	ug/L		10/20/25 0941	10/29/25 1218	EPP
Kepone	<8	8	ug/L		10/20/25 0941	10/29/25 1218	EPP
3,3'-Dichlorobenzidine	<8	8	ug/L		10/20/25 0941	10/29/25 1218	EPP
2-Acetylaminofluorene	<8	8	ug/L		10/20/25 0941	10/29/25 1218	EPP
Di-n-octyl Phthalate	<8	8	ug/L		10/20/25 0941	10/29/25 1218	EPP

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Page 14 of 58



Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

11J1462

Client Sample ID: MW-105B
Sample Matrix: Aqueous
Lab Sample ID: 11J1462-05

Collected By: Whipple, Todd
Collection Date: 10/13/2025 10:27

Determination of Base/Neutral/Acid Extractable Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
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Benzo(b)Fluoranthene	<8	8	ug/L		10/20/25 0941	10/29/25 1218	EPP
7,12-Dimethylbenz [a] anthracene	<8	8	ug/L		10/20/25 0941	10/29/25 1218	EPP
Benzo(k)Fluoranthene	<8	8	ug/L		10/20/25 0941	10/29/25 1218	EPP
Benzo(a)Pyrene	<8	8	ug/L		10/20/25 0941	10/29/25 1218	EPP
3-Methylcholanthrene	<8	8	ug/L		10/20/25 0941	10/29/25 1218	EPP
Dibenzo(a,h)anthracene	<8	8	ug/L		10/20/25 0941	10/29/25 1218	EPP
Indeno(1,2,3-cd)Pyrene	<8	8	ug/L		10/20/25 0941	10/29/25 1218	EPP
Benzo(g,h,i)perylene	<8	8	ug/L		10/20/25 0941	10/29/25 1218	EPP
Surrogate: 2-Fluorophenol	94.1	Limit: 10-159	% Rec		10/20/25 0941	10/29/25 1218	EPP
Surrogate: Phenol-d6	96.8	Limit: 10-162	% Rec		10/20/25 0941	10/29/25 1218	EPP
Surrogate: Nitrobenzene-d5	93.7	Limit: 17-154	% Rec		10/20/25 0941	10/29/25 1218	EPP
Surrogate: 2-Fluorobiphenyl	93.6	Limit: 15-150	% Rec		10/20/25 0941	10/29/25 1218	EPP
Surrogate: 2,4,6-Tribromophenol	96.1	Limit: 10-156	% Rec		10/20/25 0941	10/29/25 1218	EPP
Surrogate: Terphenyl-dl4	115	Limit: 10-179	% Rec		10/20/25 0941	10/29/25 1218	EPP

Determination of Organophosphorus Insecticides	Result	RL	Units	Note	Prepared	Analyzed	Analyst
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EPA 3510C/EPA 8141

O,O,O-Triethyl phosphorothioate	<0.4	0.4	ug/L		10/17/25 1204	10/27/25 1404	EPP
Thionazin	<0.4	0.4	ug/L		10/17/25 1204	10/27/25 1404	EPP
Phorate	<0.4	0.4	ug/L		10/17/25 1204	10/27/25 1404	EPP
Dimethoate	<0.4	0.4	ug/L		10/17/25 1204	10/27/25 1404	EPP
Disulfoton	<0.4	0.4	ug/L		10/17/25 1204	10/27/25 1404	EPP
Methyl Parathion	<0.4	0.4	ug/L		10/17/25 1204	10/27/25 1404	EPP
Parathion	<0.4	0.4	ug/L		10/17/25 1204	10/27/25 1404	EPP
Famphur	<0.4	0.4	ug/L		10/17/25 1204	10/27/25 1404	EPP
Surrogate: 2-Nitro-m-xylene	63.8	Limit: 32-110	% Rec		10/17/25 1204	10/27/25 1404	EPP

Determination of Chlorinated Phenoxy Herbicides	Result	RL	Units	Note	Prepared	Analyzed	Analyst
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EPA 8151A

2,4-D	<2.0	2.0	ug/L		10/17/25 1211	10/27/25 1358	EPP
2,4,5-TP (Silvex)	<0.5	0.5	ug/L		10/17/25 1211	10/27/25 1358	EPP
2,4,5-T	<0.5	0.5	ug/L		10/17/25 1211	10/27/25 1358	EPP
Dinoseb	<0.5	0.5	ug/L		10/17/25 1211	10/27/25 1358	EPP
Surrogate: 2,5-Dichlorobenzoic Acid	118	Limit: 49-174	% Rec		10/17/25 1211	10/27/25 1358	EPP

Determination of Organochlorine Insecticides & Metabolites	Result	RL	Units	Note	Prepared	Analyzed	Analyst
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EPA 3510C/EPA 8081A

Alpha-BHC	<0.05	0.05	ug/L		10/17/25 1202	10/22/25 1745	PDS
Gamma-BHC [Lindane]	<0.05	0.05	ug/L		10/17/25 1202	10/22/25 1745	PDS
Beta-BHC	<0.05	0.05	ug/L		10/17/25 1202	10/22/25 1745	PDS



Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

1IJ1462

Client Sample ID: MW-105B
Sample Matrix: Aqueous
Lab Sample ID: 1IJ1462-05

Collected By: Whipple, Todd
Collection Date: 10/13/2025 10:27

Determination of Organochlorine Insecticides & Metabolites	Result	RL	Units	Note	Prepared	Analyzed	Analyst
Heptachlor	<0.05	0.05	ug/L		10/17/25 1202	10/22/25 1745	PDS
Delta-BHC	<0.05	0.05	ug/L		10/17/25 1202	10/22/25 1745	PDS
Aldrin	<0.05	0.05	ug/L		10/17/25 1202	10/22/25 1745	PDS
Heptachlor Epoxide	<0.05	0.05	ug/L		10/17/25 1202	10/22/25 1745	PDS
Endosulfan I	<0.05	0.05	ug/L		10/17/25 1202	10/22/25 1745	PDS
4,4'-DDE	<0.05	0.05	ug/L		10/17/25 1202	10/22/25 1745	PDS
Dieldrin	<0.05	0.05	ug/L		10/17/25 1202	10/22/25 1745	PDS
Endrin	<0.05	0.05	ug/L		10/17/25 1202	10/22/25 1745	PDS
4,4'-DDD	<0.05	0.05	ug/L		10/17/25 1202	10/22/25 1745	PDS
Endosulfan II	<0.05	0.05	ug/L		10/17/25 1202	10/22/25 1745	PDS
4,4'-DDT	<0.05	0.05	ug/L		10/17/25 1202	10/22/25 1745	PDS
Endrin Aldehyde	<0.05	0.05	ug/L		10/17/25 1202	10/22/25 1745	PDS
Endosulfan Sulfate	<0.05	0.05	ug/L		10/17/25 1202	10/22/25 1745	PDS
Methoxychlor	<0.05	0.05	ug/L		10/17/25 1202	10/22/25 1745	PDS
Chlordane	<0.10	0.10	ug/L		10/17/25 1202	10/22/25 1745	PDS
Toxaphene	<0.20	0.20	ug/L		10/17/25 1202	10/22/25 1745	PDS
Hexachlorobenzene	<0.05	0.05	ug/L		10/17/25 1202	10/22/25 1745	PDS
Surrogate: Tetrachloro-m-xylene	63.5	Limit: 45-111	% Rec		10/17/25 1202	10/22/25 1745	PDS

Determination of Polychlorinated Biphenyls (PCB)	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 3510C/EPA 8082A							
Arochlor 1016	<0.20	0.20	ug/L		10/17/25 1200	10/22/25 1745	PDS
Arochlor 1221	<0.20	0.20	ug/L		10/17/25 1200	10/22/25 1745	PDS
Arochlor 1232	<0.20	0.20	ug/L		10/17/25 1200	10/22/25 1745	PDS
Arochlor 1242	<0.20	0.20	ug/L		10/17/25 1200	10/22/25 1745	PDS
Arochlor 1248	<0.20	0.20	ug/L		10/17/25 1200	10/22/25 1745	PDS
Arochlor 1254	<0.20	0.20	ug/L		10/17/25 1200	10/22/25 1745	PDS
Arochlor 1260	<0.20	0.20	ug/L		10/17/25 1200	10/22/25 1745	PDS
Surrogate: Tetrachloro-m-xylene	87.8	Limit: 50-116	% Rec		10/17/25 1200	10/22/25 1745	PDS
Surrogate: Decachlorobiphenyl	81.2	Limit: 38-122	% Rec		10/17/25 1200	10/22/25 1745	PDS

Determination of Conventional Chemistry Parameters	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 376.2							
Sulfide, total	<0.10	0.10	mg/L		10/20/25 1039	10/20/25 1648	AKK
EPA 9014							
Cyanide, total	<0.010	0.010	mg/L			10/21/25 1307	AKK

Determination of Total Metals	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A							
Antimony	<0.0010	0.0010	mg/L		10/20/25 0925	10/20/25 2058	RVV
Arsenic	<0.0020	0.0020	mg/L		10/20/25 0925	10/20/25 2058	RVV



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CERTIFICATE OF ANALYSIS

1IJ1462

Client Sample ID: MW-105B
Sample Matrix: Aqueous
Lab Sample ID: 1IJ1462-05

Collected By: Whipple, Todd
Collection Date: 10/13/2025 10:27

Determination of Total Metals	Result	RL	Units	Note	Prepared	Analyzed	Analyst
Barium	0.115	0.0010	mg/L		10/20/25 0925	10/20/25 2058	RVV
Beryllium	<0.0005	0.0005	mg/L		10/20/25 0925	10/20/25 2058	RVV
Cadmium	0.0002	0.0002	mg/L		10/20/25 0925	10/20/25 2058	RVV
Chromium	0.0010	0.0010	mg/L		10/20/25 0925	10/20/25 2058	RVV
Cobalt	<0.0005	0.0005	mg/L		10/20/25 0925	10/20/25 2058	RVV
Copper	<0.0050	0.0050	mg/L		10/20/25 0925	10/20/25 2058	RVV
Lead	<0.0010	0.0010	mg/L		10/20/25 0925	10/20/25 2058	RVV
Nickel	<0.0050	0.0050	mg/L		10/20/25 0925	10/20/25 2058	RVV
Selenium	<0.0020	0.0020	mg/L		10/20/25 0925	10/20/25 2058	RVV
Silver	<0.0050	0.0050	mg/L		10/20/25 0925	10/20/25 2058	RVV
Thallium	<0.0005	0.0005	mg/L		10/20/25 0925	10/20/25 2058	RVV
Tin	<0.0050	0.0050	mg/L		10/20/25 0925	10/20/25 2058	RVV
Vanadium	<0.0020	0.0020	mg/L		10/20/25 0925	10/20/25 2058	RVV
Zinc	0.0069	0.0050	mg/L		10/20/25 0925	10/20/25 2058	RVV
EPA 7470A							
Mercury	<0.00050	0.00050	mg/L		10/27/25 1536	10/28/25 1633	JAR

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Page 17 of 58



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CERTIFICATE OF ANALYSIS

1IJ1462

Client Sample ID: MW-108A
Sample Matrix: Aqueous
Lab Sample ID: 1IJ1462-06

Collected By: Whipple, Todd
Collection Date: 10/13/2025 10:01

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 8260D							
Chloromethane	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1345	RAF
Vinyl Chloride	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1345	RAF
Bromomethane	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1345	RAF
Chloroethane	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1345	RAF
Trichlorofluoromethane	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1345	RAF
1,1-Dichloroethylene	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1345	RAF
Acetone	<10.0	10.0	ug/L		10/20/25 0000	10/20/25 1345	RAF
Methyl Iodide	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1345	RAF
Carbon Disulfide	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1345	RAF
Methylene Chloride	<5.0	5.0	ug/L		10/20/25 0000	10/20/25 1345	RAF
Acrylonitrile	<5.0	5.0	ug/L		10/20/25 0000	10/20/25 1345	RAF
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1345	RAF
1,1-Dichloroethane	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1345	RAF
Vinyl Acetate	<5.0	5.0	ug/L		10/20/25 0000	10/20/25 1345	RAF
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1345	RAF
2-Butanone (MEK)	<10.0	10.0	ug/L		10/20/25 0000	10/20/25 1345	RAF
Bromochloromethane	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1345	RAF
Chloroform	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1345	RAF
1,1,1-Trichloroethane	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1345	RAF
Carbon Tetrachloride	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1345	RAF
Benzene	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1345	RAF
1,2-Dichloroethane	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1345	RAF
Trichloroethylene	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1345	RAF
1,2-Dichloropropane	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1345	RAF
Dibromomethane	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1345	RAF
Bromodichloromethane	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1345	RAF
cis-1,3-Dichloropropene	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1345	RAF
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L		10/20/25 0000	10/20/25 1345	RAF
Toluene	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1345	RAF
trans-1,3-Dichloropropene	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1345	RAF
1,1,2-Trichloroethane	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1345	RAF
Tetrachloroethylene	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1345	RAF
2-Hexanone (MBK)	<5.0	5.0	ug/L		10/20/25 0000	10/20/25 1345	RAF
Dibromochloromethane	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1345	RAF
1,2-Dibromoethane	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1345	RAF
Chlorobenzene	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1345	RAF
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1345	RAF
Ethylbenzene	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1345	RAF
Xylenes, total	<2.0	2.0	ug/L		10/20/25 0000	10/20/25 1345	RAF
Styrene	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1345	RAF
Bromoform	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1345	RAF
1,2,3-Trichloropropane	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1345	RAF

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CERTIFICATE OF ANALYSIS

1IJ1462

Client Sample ID: MW-108A
Sample Matrix: Aqueous
Lab Sample ID: 1IJ1462-06

Collected By: Whipple, Todd
Collection Date: 10/13/2025 10:01

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
trans-1,4-Dichloro-2-butene	<5.0	5.0	ug/L		10/20/25 0000	10/20/25 1345	RAF
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1345	RAF
1,4-Dichlorobenzene	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1345	RAF
1,2-Dichlorobenzene	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1345	RAF
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L		10/20/25 0000	10/20/25 1345	RAF
Surrogate: Dibromofluoromethane	99.8	Limit: 75-136	% Rec		10/20/25 0000	10/20/25 1345	RAF
Surrogate: Dibromofluoromethane	99.8	Limit: 57-128	% Rec		10/20/25 0000	10/20/25 1345	RAF
Surrogate: 1,2-Dichloroethane-d4	120	Limit: 49-135	% Rec		10/20/25 0000	10/20/25 1345	RAF
Surrogate: 1,2-Dichloroethane-d4	120	Limit: 61-142	% Rec		10/20/25 0000	10/20/25 1345	RAF
Surrogate: Toluene-d8	103	Limit: 82-121	% Rec		10/20/25 0000	10/20/25 1345	RAF
Surrogate: Toluene-d8	103	Limit: 82-116	% Rec		10/20/25 0000	10/20/25 1345	RAF
Surrogate: 4-Bromofluorobenzene	101	Limit: 80-116	% Rec		10/20/25 0000	10/20/25 1345	RAF
Surrogate: 4-Bromofluorobenzene	101	Limit: 77-114	% Rec		10/20/25 0000	10/20/25 1345	RAF

Determination of Total Metals	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A							
Antimony	0.0010	0.0010	mg/L		10/20/25 0925	10/20/25 2105	RVV
Arsenic	0.0144	0.0020	mg/L		10/20/25 0925	10/20/25 2105	RVV
Barium	0.0476	0.0010	mg/L		10/20/25 0925	10/20/25 2105	RVV
Beryllium	<0.0005	0.0005	mg/L		10/20/25 0925	10/20/25 2105	RVV
Cadmium	0.0034	0.0002	mg/L		10/20/25 0925	10/20/25 2105	RVV
Chromium	0.0010	0.0010	mg/L		10/20/25 0925	10/20/25 2105	RVV
Cobalt	0.134	0.0005	mg/L		10/20/25 0925	10/20/25 2105	RVV
Copper	<0.0050	0.0050	mg/L		10/20/25 0925	10/20/25 2105	RVV
Lead	<0.0010	0.0010	mg/L		10/20/25 0925	10/20/25 2105	RVV
Nickel	0.0285	0.0050	mg/L		10/20/25 0925	10/20/25 2105	RVV
Selenium	<0.0020	0.0020	mg/L		10/20/25 0925	10/20/25 2105	RVV
Silver	<0.0050	0.0050	mg/L		10/20/25 0925	10/20/25 2105	RVV
Thallium	<0.0005	0.0005	mg/L		10/20/25 0925	10/20/25 2105	RVV
Vanadium	0.0045	0.0020	mg/L		10/20/25 0925	10/20/25 2105	RVV
Zinc	0.0164	0.0050	mg/L		10/20/25 0925	10/20/25 2105	RVV

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Page 19 of 58



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CERTIFICATE OF ANALYSIS

1IJ1462

Client Sample ID: MW-110A
Sample Matrix: Aqueous
Lab Sample ID: 1IJ1462-07

Collected By: Whipple, Todd
Collection Date: 10/13/2025 9:05

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 8260D							
Chloromethane	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1408	RAF
Vinyl Chloride	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1408	RAF
Bromomethane	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1408	RAF
Chloroethane	3.8	1.0	ug/L		10/20/25 0000	10/20/25 1408	RAF
Trichlorofluoromethane	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1408	RAF
1,1-Dichloroethylene	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1408	RAF
Acetone	<10.0	10.0	ug/L		10/20/25 0000	10/20/25 1408	RAF
Methyl Iodide	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1408	RAF
Carbon Disulfide	<1.0	1.0	ug/L		10/23/25 0000	10/23/25 1058	RAF
Methylene Chloride	<5.0	5.0	ug/L		10/20/25 0000	10/20/25 1408	RAF
Acrylonitrile	<5.0	5.0	ug/L		10/20/25 0000	10/20/25 1408	RAF
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1408	RAF
1,1-Dichloroethane	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1408	RAF
Vinyl Acetate	<5.0	5.0	ug/L		10/20/25 0000	10/20/25 1408	RAF
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1408	RAF
2-Butanone (MEK)	<10.0	10.0	ug/L		10/20/25 0000	10/20/25 1408	RAF
Bromochloromethane	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1408	RAF
Chloroform	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1408	RAF
1,1,1-Trichloroethane	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1408	RAF
Carbon Tetrachloride	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1408	RAF
Benzene	1.6	1.0	ug/L		10/20/25 0000	10/20/25 1408	RAF
1,2-Dichloroethane	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1408	RAF
Trichloroethylene	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1408	RAF
1,2-Dichloropropane	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1408	RAF
Dibromomethane	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1408	RAF
Bromodichloromethane	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1408	RAF
cis-1,3-Dichloropropene	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1408	RAF
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L		10/20/25 0000	10/20/25 1408	RAF
Toluene	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1408	RAF
trans-1,3-Dichloropropene	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1408	RAF
1,1,2-Trichloroethane	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1408	RAF
Tetrachloroethylene	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1408	RAF
2-Hexanone (MBK)	<5.0	5.0	ug/L		10/20/25 0000	10/20/25 1408	RAF
Dibromochloromethane	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1408	RAF
1,2-Dibromoethane	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1408	RAF
Chlorobenzene	4.0	1.0	ug/L		10/20/25 0000	10/20/25 1408	RAF
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1408	RAF
Ethylbenzene	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1408	RAF
Xylenes, total	<2.0	2.0	ug/L		10/20/25 0000	10/20/25 1408	RAF
Styrene	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1408	RAF
Bromoform	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1408	RAF
1,2,3-Trichloropropane	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1408	RAF

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Page 20 of 58



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CERTIFICATE OF ANALYSIS

1IJ1462

Client Sample ID: MW-110A
Sample Matrix: Aqueous
Lab Sample ID: 1IJ1462-07

Collected By: Whipple, Todd
Collection Date: 10/13/2025 9:05

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
trans-1,4-Dichloro-2-butene	<5.0	5.0	ug/L		10/20/25 0000	10/20/25 1408	RAF
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1408	RAF
1,4-Dichlorobenzene	4.1	1.0	ug/L		10/20/25 0000	10/20/25 1408	RAF
1,2-Dichlorobenzene	<1.0	1.0	ug/L		10/20/25 0000	10/20/25 1408	RAF
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L		10/20/25 0000	10/20/25 1408	RAF
Surrogate: Dibromofluoromethane	92.5	Limit: 75-136	% Rec		10/23/25 0000	10/23/25 1058	RAF
Surrogate: Dibromofluoromethane	97.9	Limit: 57-128	% Rec		10/20/25 0000	10/20/25 1408	RAF
Surrogate: Dibromofluoromethane	97.9	Limit: 75-136	% Rec		10/20/25 0000	10/20/25 1408	RAF
Surrogate: 1,2-Dichloroethane-d4	114	Limit: 61-142	% Rec		10/23/25 0000	10/23/25 1058	RAF
Surrogate: 1,2-Dichloroethane-d4	119	Limit: 49-135	% Rec		10/20/25 0000	10/20/25 1408	RAF
Surrogate: 1,2-Dichloroethane-d4	119	Limit: 61-142	% Rec		10/20/25 0000	10/20/25 1408	RAF
Surrogate: Toluene-d8	100	Limit: 82-121	% Rec		10/23/25 0000	10/23/25 1058	RAF
Surrogate: Toluene-d8	103	Limit: 82-116	% Rec		10/20/25 0000	10/20/25 1408	RAF
Surrogate: Toluene-d8	103	Limit: 82-121	% Rec		10/20/25 0000	10/20/25 1408	RAF
Surrogate: 4-Bromofluorobenzene	103	Limit: 80-116	% Rec		10/23/25 0000	10/23/25 1058	RAF
Surrogate: 4-Bromofluorobenzene	106	Limit: 80-116	% Rec		10/20/25 0000	10/20/25 1408	RAF
Surrogate: 4-Bromofluorobenzene	106	Limit: 77-114	% Rec		10/20/25 0000	10/20/25 1408	RAF
Determination of Total Metals	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A							
Antimony	<0.0010	0.0010	mg/L		10/20/25 0925	10/20/25 2108	RVV
Arsenic	0.172	0.0020	mg/L		10/20/25 0925	10/20/25 2108	RVV
Barium	0.817	0.0010	mg/L		10/20/25 0925	10/20/25 2108	RVV
Beryllium	<0.0005	0.0005	mg/L		10/20/25 0925	10/20/25 2108	RVV
Cadmium	0.0006	0.0002	mg/L		10/20/25 0925	10/20/25 2108	RVV
Chromium	0.0010	0.0010	mg/L		10/20/25 0925	10/20/25 2108	RVV
Cobalt	0.0303	0.0005	mg/L		10/20/25 0925	10/20/25 2108	RVV
Copper	<0.0050	0.0050	mg/L		10/20/25 0925	10/20/25 2108	RVV
Lead	0.0015	0.0010	mg/L		10/20/25 0925	10/20/25 2108	RVV
Nickel	0.0069	0.0050	mg/L		10/20/25 0925	10/20/25 2108	RVV
Selenium	<0.0020	0.0020	mg/L		10/20/25 0925	10/20/25 2108	RVV
Silver	<0.0050	0.0050	mg/L		10/20/25 0925	10/20/25 2108	RVV
Thallium	<0.0005	0.0005	mg/L		10/20/25 0925	10/20/25 2108	RVV
Vanadium	0.0024	0.0020	mg/L		10/20/25 0925	10/20/25 2108	RVV
Zinc	0.0198	0.0050	mg/L		10/20/25 0925	10/20/25 2108	RVV

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Page 21 of 58



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CERTIFICATE OF ANALYSIS

1IJ1462

Client Sample ID: Duplicate
Sample Matrix: Aqueous
Lab Sample ID: 1IJ1462-08

Collected By: Whipple, Todd
Collection Date: 10/13/2025

Determination of Total Metals	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A							
Antimony	<0.0010	0.0010	mg/L		10/20/25 0925	10/20/25 2110	RVV
Arsenic	<0.0020	0.0020	mg/L		10/20/25 0925	10/20/25 2110	RVV
Barium	0.356	0.0010	mg/L		10/20/25 0925	10/20/25 2110	RVV
Beryllium	<0.0005	0.0005	mg/L		10/20/25 0925	10/20/25 2110	RVV
Cadmium	0.0825	0.0002	mg/L		10/20/25 0925	10/20/25 2110	RVV
Chromium	<0.0010	0.0010	mg/L		10/20/25 0925	10/20/25 2110	RVV
Cobalt	<0.0005	0.0005	mg/L		10/20/25 0925	10/20/25 2110	RVV
Copper	<0.0050	0.0050	mg/L		10/20/25 0925	10/20/25 2110	RVV
Lead	<0.0010	0.0010	mg/L		10/20/25 0925	10/20/25 2110	RVV
Nickel	<0.0050	0.0050	mg/L		10/20/25 0925	10/20/25 2110	RVV
Selenium	<0.0020	0.0020	mg/L		10/20/25 0925	10/20/25 2110	RVV
Silver	<0.0050	0.0050	mg/L		10/20/25 0925	10/20/25 2110	RVV
Thallium	<0.0005	0.0005	mg/L		10/20/25 0925	10/20/25 2110	RVV
Vanadium	<0.0020	0.0020	mg/L		10/20/25 0925	10/20/25 2110	RVV
Zinc	<0.0050	0.0050	mg/L		10/20/25 0925	10/20/25 2110	RVV

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Page 22 of 58



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CERTIFICATE OF ANALYSIS

1IJ1462

Batch Log Summary

Method	Batch	Laboratory ID	Client / Source ID
EPA 8082A	1IJ1061	1IJ1061-BLK1	MW-105B
		1IJ1462-05	
		1IJ1061-BS1	
		1IJ1061-BSD1	
		1IJ1061-SRM1	
Method	Batch	Laboratory ID	Client / Source ID
EPA 8081A	1IJ1062	1IJ1062-BLK1	MW-105B
		1IJ1462-05	
		1IJ1062-BS1	
		1IJ1062-BSD1	
		1IJ1062-SRM1	
Method	Batch	Laboratory ID	Client / Source ID
EPA 8141	1IJ1063	1IJ1063-BLK1	MW-105B
		1IJ1462-05	
		1IJ1063-BS1	
		1IJ1063-BSD1	
		1IJ1063-SRM1	
Method	Batch	Laboratory ID	Client / Source ID
EPA 8151A	1IJ1064	1IJ1064-BLK1	MW-105B
		1IJ1462-05	
		1IJ1064-BS1	
		1IJ1064-BSD1	
Method	Batch	Laboratory ID	Client / Source ID
EPA 6020A	1IJ1122	1IJ1122-BLK1	MW-1
		1IJ1122-BS1	
		1IJ1462-01	
		1IJ1122-MS1	1IJ1462-01
		1IJ1122-MSD1	1IJ1462-01
		1IJ1122-PS1	1IJ1462-01
		1IJ1462-02	MW-2A
		1IJ1462-03	MW-3
		1IJ1462-04	MW-4
		1IJ1462-05	MW-105B
		1IJ1462-06	MW-108A
		1IJ1462-07	MW-110A
		1IJ1462-08	Duplicate
Method	Batch	Laboratory ID	Client / Source ID
EPA 8270C	1IJ1125	1IJ1125-BLK1	MW-105B
		1IJ1125-BS1	
		1IJ1125-BSD1	
		1IJ1462-05	
Method	Batch	Laboratory ID	Client / Source ID
EPA 376.2	1IJ1132	1IJ1132-BLK1	1IJ1239-01
		1IJ1132-MS1	
		1IJ1132-BS1	
		1IJ1132-MSD1	1IJ1239-01
		1IJ1462-05	MW-105B
Method	Batch	Laboratory ID	Client / Source ID

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CERTIFICATE OF ANALYSIS

1IJ1462

Method	Batch	Laboratory ID	Client / Source ID
EPA 8260D	1IJ1171	1IJ1171-BS1	
		1IJ1171-BSD1	
		1IJ1171-BLK1	
		1IJ1462-01	MW-1
		1IJ1462-02	MW-2A
		1IJ1462-03	MW-3
		1IJ1462-04	MW-4
		1IJ1462-05	MW-105B
		1IJ1462-06	MW-108A
		1IJ1462-07	MW-110A
		1IJ1171-MS1	1IJ1462-01
		1IJ1171-MSD1	1IJ1462-01
Method	Batch	Laboratory ID	Client / Source ID
EPA 9014	1IJ1215	1IJ1215-BS1	
		1IJ1462-05	MW-105B
		1IJ1215-BLK1	
		1IJ1215-MSD1	1IJ1387-04
		1IJ1215-MS1	1IJ1387-04
Method	Batch	Laboratory ID	Client / Source ID
EPA 8260D	1IJ1423	1IJ1423-BLK1	
		1IJ1462-07RE1	MW-110A
		1IJ1423-BS1	
		1IJ1423-BSD1	
		1IJ1423-MS1	3IJ0087-07
		1IJ1423-MSD1	3IJ0087-07
Method	Batch	Laboratory ID	Client / Source ID
EPA 8015C	1IJ1478	1IJ1478-BS1	
		1IJ1478-BLK1	
		1IJ1462-05	MW-105B
		1IJ1478-MS1	1IJ1904-01
		1IJ1478-MSD1	1IJ1904-01
Method	Batch	Laboratory ID	Client / Source ID
EPA 8260D	1IJ1499	1IJ1499-BLK1	
		1IJ1462-05	MW-105B
		1IJ1499-BS1	
		1IJ1499-BSD1	
		1IJ1499-MS1	1IJ1987-01
		1IJ1499-MSD1	1IJ1987-01
Method	Batch	Laboratory ID	Client / Source ID
EPA 7470A	1IJ1552	1IJ1552-BLK1	
		1IJ1552-BS1	
		1IJ1552-MS1	1IJ1317-01
		1IJ1552-MSD1	1IJ1317-01
		1IJ1462-05	MW-105B
Method	Batch	Laboratory ID	Client / Source ID
EPA 8260D	1IJ1564	1IJ1564-BS1	
		1IJ1564-BSD1	
		1IJ1564-BLK1	
		1IJ1462-05	MW-105B
		1IJ1564-MS1	1IJ1387-05

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CERTIFICATE OF ANALYSIS

1IJ1462

Method	Batch	Laboratory ID	Client / Source ID
EPA 8260D	1IJ1564	1IJ1564-MSD1	1IJ1387-05

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
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Batch 1IJ1171 - EPA 5030B - EPA 8260D

Blank (1IJ1171-BLK1)

Prepared: 10/20/25 00:00 Analyzed: 10/20/25 11:05

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
Acrolein	<10.0	10.0	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
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

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CERTIFICATE OF ANALYSIS

1IJ1462

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1IJ1171 - EPA 5030B - EPA 8260D										
Blank (1IJ1171-BLK1)										
				Prepared: 10/20/25 00:00 Analyzed: 10/20/25 11:05						
Ethylbenzene	<1.0	1.0	ug/L							
Xylenes, total	<2.0	2.0	ug/L							
Styrene	<1.0	1.0	ug/L							
Bromoform	<1.0	1.0	ug/L							
1,2,3-Trichloropropane	<1.0	1.0	ug/L							
trans-1,4-Dichloro-2-butene	<5.0	5.0	ug/L							
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L							
1,4-Dichlorobenzene	<1.0	1.0	ug/L							
1,2-Dichlorobenzene	<1.0	1.0	ug/L							
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L							
Surrogate: Dibromofluoromethane										
	47.7		ug/L	50.2		95.1	57-128			
Surrogate: Dibromofluoromethane										
	47.7		ug/L	50.2		95.1	75-136			
Surrogate: 1,2-Dichloroethane-d4										
	58.2		ug/L	50.4		116	49-135			
Surrogate: 1,2-Dichloroethane-d4										
	58.2		ug/L	50.4		116	49-135			
Surrogate: 1,2-Dichloroethane-d4										
	58.2		ug/L	50.4		116	61-142			
Surrogate: Toluene-d8										
	51.0		ug/L	50.5		101	82-116			
Surrogate: Toluene-d8										
	51.0		ug/L	50.5		101	82-116			
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	77-114			
Surrogate: 4-Bromofluorobenzene										
	51.4		ug/L	50.2		102	80-116			
LCS (1IJ1171-BS1)										
				Prepared: 10/20/25 00:00 Analyzed: 10/20/25 09:56						
Chloromethane	27.64	1.0	ug/L	30.3		91.2	63-155			
Vinyl Chloride	31.30	1.0	ug/L	30.2		103	70-154			
Bromomethane	24.06	1.0	ug/L	30.1		79.9	52-176			
Chloroethane	26.47	1.0	ug/L	30.3		87.3	72-148			
Trichlorofluoromethane	30.53	1.0	ug/L	30.3		101	70-152			
Acrolein	57.63	10.0	ug/L	50.3		114	10-178			
1,1-Dichloroethylene	60.39	1.0	ug/L	50.1		120	70-148			
Acetone	116.4	10.0	ug/L	100		116	43-172			
Methyl Iodide	110.4	1.0	ug/L	100		110	69-170			
Carbon Disulfide	105.4	1.0	ug/L	100		105	72-162			
Methylene Chloride	48.67	5.0	ug/L	50.1		97.1	68-142			
Acrylonitrile	56.52	5.0	ug/L	50.4		112	33-163			
Acrylonitrile	56.52	5.0	ug/L	50.4		112	33-163			
trans-1,2-Dichloroethylene	62.15	1.0	ug/L	50.1		124	66-148			
1,1-Dichloroethane	60.62	1.0	ug/L	50.1		121	66-143			
Vinyl Acetate	150.2	5.0	ug/L	142		105	43-153			
cis-1,2-Dichloroethylene	52.34	1.0	ug/L	50.4		104	71-149			
2-Butanone (MEK)	123.8	10.0	ug/L	100		124	52-159			
Bromochloromethane	61.40	1.0	ug/L	50.4		122	69-143			
Chloroform	53.34	1.0	ug/L	50.1		107	69-144			
1,1,1-Trichloroethane	55.45	1.0	ug/L	50.1		111	62-129			

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CERTIFICATE OF ANALYSIS

1IJ1462

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1IJ1171 - EPA 5030B - EPA 8260D										
LCS (1IJ1171-BS1)										
Prepared: 10/20/25 00:00 Analyzed: 10/20/25 09:56										
Carbon Tetrachloride	56.87	1.0	ug/L	50.1		114	63-141			
Benzene	56.47	1.0	ug/L	50.4		112	71-134			
1,2-Dichloroethane	64.01	1.0	ug/L	50.1		128	72-132			
Trichloroethylene	57.57	1.0	ug/L	50.1		115	71-135			
1,2-Dichloropropane	57.64	1.0	ug/L	50.1		115	69-136			
Dibromomethane	47.83	1.0	ug/L	50.4		95.0	73-147			
Bromodichloromethane	56.79	1.0	ug/L	50.1		113	68-129			
cis-1,3-Dichloropropene	47.10	1.0	ug/L	50.1		94.0	65-134			
4-Methyl-2-pentanone (MIBK)	124.0	5.0	ug/L	100		124	58-147			
Toluene	56.27	1.0	ug/L	50.5		111	72-133			
trans-1,3-Dichloropropene	55.07	1.0	ug/L	50.1		110	67-130			
1,1,2-Trichloroethane	54.61	1.0	ug/L	50.1		109	69-135			
Tetrachloroethylene	54.73	1.0	ug/L	50.1		109	69-130			
2-Hexanone (MBK)	124.4	5.0	ug/L	100		124	55-144			
Dibromochloromethane	45.14	1.0	ug/L	50.1		90.2	73-127			
1,2-Dibromoethane	50.90	1.0	ug/L	50.2		101	67-132			
Chlorobenzene	52.31	1.0	ug/L	50.1		104	72-123			
1,1,1,2-Tetrachloroethane	49.61	1.0	ug/L	50.3		98.5	73-127			
Ethylbenzene	56.16	1.0	ug/L	50.2		112	71-127			
Xylenes, total	174.7	2.0	ug/L	151		116	74-127			
Styrene	55.04	1.0	ug/L	50.4		109	66-126			
Bromoform	52.11	1.0	ug/L	50.1		104	68-130			
1,2,3-Trichloropropane	53.13	1.0	ug/L	50.3		106	63-136			
trans-1,4-Dichloro-2-butene	118.1	5.0	ug/L	100		118	54-134			
1,1,2,2-Tetrachloroethane	51.31	1.0	ug/L	50.1		102	61-131			
1,4-Dichlorobenzene	50.46	1.0	ug/L	50.1		101	70-129			
1,2-Dichlorobenzene	49.48	1.0	ug/L	50.1		98.8	69-126			
1,2-Dibromo-3-chloropropane	43.55	5.0	ug/L	50.1		86.9	50-143			
Surrogate: Dibromofluoromethane	47.0		ug/L	50.2		93.7	57-128			
Surrogate: Dibromofluoromethane	47.0		ug/L	50.2		93.7	75-136			
Surrogate: 1,2-Dichloroethane-d4	58.5		ug/L	50.4		116	49-135			
Surrogate: 1,2-Dichloroethane-d4	58.5		ug/L	50.4		116	49-135			
Surrogate: 1,2-Dichloroethane-d4	58.5		ug/L	50.4		116	61-142			
Surrogate: Toluene-d8	51.0		ug/L	50.5		101	82-116			
Surrogate: Toluene-d8	51.0		ug/L	50.5		101	82-116			
Surrogate: Toluene-d8	51.0		ug/L	50.5		101	82-121			
Surrogate: 4-Bromofluorobenzene	58.1		ug/L	50.2		116	77-114			S1
Surrogate: 4-Bromofluorobenzene	58.1		ug/L	50.2		116	77-114			S1
Surrogate: 4-Bromofluorobenzene	58.1		ug/L	50.2		116	80-116			
LCS Dup (1IJ1171-BS1)										
Prepared: 10/20/25 00:00 Analyzed: 10/20/25 10:19										
Chloromethane	26.59	1.0	ug/L	30.3		87.7	63-155	3.87	24	
Vinyl Chloride	34.52	1.0	ug/L	30.2		114	70-154	9.78	25	
Bromomethane	24.98	1.0	ug/L	30.1		82.9	52-176	3.75	27	

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CERTIFICATE OF ANALYSIS

1IJ1462

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1IJ1171 - EPA 5030B - EPA 8260D										
LCS Dup (1IJ1171-BSD1)				Prepared: 10/20/25 00:00 Analyzed: 10/20/25 10:19						
Chloroethane	24.96	1.0	ug/L	30.3		82.3	72-148	5.87	25	
Trichlorofluoromethane	29.07	1.0	ug/L	30.3		95.9	70-152	4.90	26	
Acrolein	58.23	10.0	ug/L	50.3		116	10-178	1.04	30	
1,1-Dichloroethylene	59.52	1.0	ug/L	50.1		119	70-148	1.45	24	
Acetone	118.1	10.0	ug/L	100		118	43-172	1.44	30	
Methyl Iodide	109.4	1.0	ug/L	100		109	69-170	0.928	30	
Carbon Disulfide	101.4	1.0	ug/L	100		101	72-162	3.86	24	
Methylene Chloride	48.74	5.0	ug/L	50.1		97.3	68-142	0.144	21	
Acrylonitrile	58.58	5.0	ug/L	50.4		116	33-163	3.58	28	
Acrylonitrile	58.58	5.0	ug/L	50.4		116	33-163	3.58	28	
trans-1,2-Dichloroethylene	61.19	1.0	ug/L	50.1		122	66-148	1.56	27	
1,1-Dichloroethane	59.18	1.0	ug/L	50.1		118	66-143	2.40	24	
Vinyl Acetate	149.6	5.0	ug/L	142		105	43-153	0.347	30	
cis-1,2-Dichloroethylene	51.29	1.0	ug/L	50.4		102	71-149	2.03	26	
2-Butanone (MEK)	125.6	10.0	ug/L	100		126	52-159	1.40	27	
Bromochloromethane	61.93	1.0	ug/L	50.4		123	69-143	0.859	23	
Chloroform	53.62	1.0	ug/L	50.1		107	69-144	0.524	23	
1,1,1-Trichloroethane	54.57	1.0	ug/L	50.1		109	62-129	1.60	24	
Carbon Tetrachloride	56.81	1.0	ug/L	50.1		113	63-141	0.106	25	
Benzene	55.83	1.0	ug/L	50.4		111	71-134	1.14	24	
1,2-Dichloroethane	64.74	1.0	ug/L	50.1		129	72-132	1.13	24	
Trichloroethylene	56.68	1.0	ug/L	50.1		113	71-135	1.56	24	
1,2-Dichloropropane	58.62	1.0	ug/L	50.1		117	69-136	1.69	24	
Dibromomethane	48.54	1.0	ug/L	50.4		96.4	73-147	1.47	25	
Bromodichloromethane	56.14	1.0	ug/L	50.1		112	68-129	1.15	22	
cis-1,3-Dichloropropene	47.83	1.0	ug/L	50.1		95.5	65-134	1.54	23	
4-Methyl-2-pentanone (MIBK)	126.9	5.0	ug/L	100		127	58-147	2.31	27	
Toluene	54.94	1.0	ug/L	50.5		109	72-133	2.39	24	
trans-1,3-Dichloropropene	55.65	1.0	ug/L	50.1		111	67-130	1.05	24	
1,1,2-Trichloroethane	54.91	1.0	ug/L	50.1		110	69-135	0.548	23	
Tetrachloroethylene	51.04	1.0	ug/L	50.1		102	69-130	6.98	25	
2-Hexanone (MBK)	122.8	5.0	ug/L	100		123	55-144	1.28	25	
Dibromochloromethane	45.22	1.0	ug/L	50.1		90.3	73-127	0.177	22	
1,2-Dibromoethane	49.24	1.0	ug/L	50.2		98.0	67-132	3.32	24	
Chlorobenzene	50.27	1.0	ug/L	50.1		100	72-123	3.98	23	
1,1,1,2-Tetrachloroethane	49.03	1.0	ug/L	50.3		97.4	73-127	1.18	24	
Ethylbenzene	54.97	1.0	ug/L	50.2		110	71-127	2.14	26	
Xylenes, total	168.7	2.0	ug/L	151		112	74-127	3.50	25	
Styrene	52.63	1.0	ug/L	50.4		104	66-126	4.48	23	
Bromoform	50.22	1.0	ug/L	50.1		100	68-130	3.69	23	
1,2,3-Trichloropropane	53.49	1.0	ug/L	50.3		106	63-136	0.675	24	
trans-1,4-Dichloro-2-butene	115.5	5.0	ug/L	100		116	54-134	2.23	27	
1,1,2,2-Tetrachloroethane	52.64	1.0	ug/L	50.1		105	61-131	2.56	29	

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CERTIFICATE OF ANALYSIS

1IJ1462

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1IJ1171 - EPA 5030B - EPA 8260D										
LCS Dup (1IJ1171-BS1)				Prepared: 10/20/25 00:00 Analyzed: 10/20/25 10:19						
1,4-Dichlorobenzene	51.64	1.0	ug/L	50.1		103	70-129	2.31	24	
1,2-Dichlorobenzene	50.34	1.0	ug/L	50.1		100	69-126	1.72	26	
1,2-Dibromo-3-chloropropane	44.67	5.0	ug/L	50.1		89.1	50-143	2.54	30	
Surrogate: Dibromofluoromethane	47.9		ug/L	50.2		95.4	57-128			
Surrogate: Dibromofluoromethane	47.9		ug/L	50.2		95.4	75-136			
Surrogate: 1,2-Dichloroethane-d4	58.6		ug/L	50.4		116	49-135			
Surrogate: 1,2-Dichloroethane-d4	58.6		ug/L	50.4		116	49-135			
Surrogate: 1,2-Dichloroethane-d4	58.6		ug/L	50.4		116	61-142			
Surrogate: Toluene-d8	51.6		ug/L	50.5		102	82-116			
Surrogate: Toluene-d8	51.6		ug/L	50.5		102	82-116			
Surrogate: Toluene-d8	51.6		ug/L	50.5		102	82-121			
Surrogate: 4-Bromofluorobenzene	57.1		ug/L	50.2		114	77-114			
Surrogate: 4-Bromofluorobenzene	57.1		ug/L	50.2		114	77-114			
Surrogate: 4-Bromofluorobenzene	57.1		ug/L	50.2		114	80-116			
Matrix Spike (1IJ1171-MS1)				Source: 1IJ1462-01 Prepared: 10/20/25 00:00 Analyzed: 10/20/25 19:05						
Chloromethane	272.9	10.0	ug/L	303	ND	90.0	61-152			
Vinyl Chloride	531.5	10.0	ug/L	302	ND	176	66-149			M1
Bromomethane	247.2	10.0	ug/L	301	ND	82.1	43-171			
Chloroethane	284.5	10.0	ug/L	303	ND	93.8	69-148			
Trichlorofluoromethane	318.7	10.0	ug/L	303	ND	105	62-163			
Acrolein	623.5	100	ug/L	503	ND	124	10-170			
1,1-Dichloroethylene	633.3	10.0	ug/L	501	ND	126	70-148			
Acetone	1527	100	ug/L	1000	ND	153	45-173			
Methyl Iodide	1025	10.0	ug/L	1000	ND	102	62-167			
Carbon Disulfide	1014	10.0	ug/L	1000	ND	101	71-163			
Methylene Chloride	493.8	50.0	ug/L	501	ND	98.6	69-140			
Acrylonitrile	614.3	50.0	ug/L	504	ND	122	32-159			
Acrylonitrile	614.3	50.0	ug/L	504	ND	122	32-159			
trans-1,2-Dichloroethylene	632.8	10.0	ug/L	501	ND	126	69-144			
1,1-Dichloroethane	628.5	10.0	ug/L	501	ND	125	70-138			
Vinyl Acetate	1571	50.0	ug/L	1420	ND	110	58-142			
cis-1,2-Dichloroethylene	535.9	10.0	ug/L	504	ND	106	68-151			
2-Butanone (MEK)	1369	100	ug/L	1000	ND	137	50-160			
Bromochloromethane	654.8	10.0	ug/L	504	ND	130	65-143			
Chloroform	553.2	10.0	ug/L	501	ND	110	71-143			
1,1,1-Trichloroethane	574.3	10.0	ug/L	501	ND	115	63-133			
Carbon Tetrachloride	569.7	10.0	ug/L	501	ND	114	63-142			
Benzene	561.6	10.0	ug/L	504	ND	111	69-133			
1,2-Dichloroethane	632.3	10.0	ug/L	501	ND	126	63-138			
Trichloroethylene	559.6	10.0	ug/L	501	ND	112	71-133			
1,2-Dichloropropane	575.5	10.0	ug/L	501	ND	115	69-132			
Dibromomethane	499.5	10.0	ug/L	504	ND	99.2	70-147			
Bromodichloromethane	560.5	10.0	ug/L	501	ND	112	67-130			

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CERTIFICATE OF ANALYSIS

1IJ1462

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1IJ1171 - EPA 5030B - EPA 8260D										
Matrix Spike (1IJ1171-MS1)	Source: 1IJ1462-01			Prepared: 10/20/25 00:00 Analyzed: 10/20/25 19:05						
cis-1,3-Dichloropropene	459.9	10.0	ug/L	501	ND	91.8	61-126			
4-Methyl-2-pentanone (MIBK)	1259	50.0	ug/L	1000	ND	126	55-147			
Toluene	561.8	10.0	ug/L	505	ND	111	71-133			
trans-1,3-Dichloropropene	531.6	10.0	ug/L	501	ND	106	63-124			
1,1,2-Trichloroethane	542.6	10.0	ug/L	501	ND	108	69-133			
Tetrachloroethylene	521.3	10.0	ug/L	501	ND	104	70-124			
2-Hexanone (MBK)	1209	50.0	ug/L	1000	ND	121	53-141			
Dibromochloromethane	437.4	10.0	ug/L	501	ND	87.4	74-122			
1,2-Dibromoethane	494.6	10.0	ug/L	502	ND	98.5	66-127			
Chlorobenzene	516.9	10.0	ug/L	501	ND	103	76-116			
1,1,1,2-Tetrachloroethane	480.4	10.0	ug/L	503	ND	95.4	77-121			
Ethylbenzene	549.5	10.0	ug/L	502	ND	110	73-124			
Xylenes, total	1733	20.0	ug/L	1510	ND	115	75-123			
Styrene	532.3	10.0	ug/L	504	ND	106	70-120			
Bromoform	500.2	10.0	ug/L	501	ND	99.8	70-124			
1,2,3-Trichloropropane	539.1	10.0	ug/L	503	ND	107	62-135			
trans-1,4-Dichloro-2-butene	1123	50.0	ug/L	1000	ND	112	50-120			
1,1,2,2-Tetrachloroethane	527.3	10.0	ug/L	501	ND	105	63-126			
1,4-Dichlorobenzene	521.7	10.0	ug/L	501	ND	104	72-119			
1,2-Dichlorobenzene	508.4	10.0	ug/L	501	ND	101	71-117			
1,2-Dibromo-3-chloropropane	434.5	50.0	ug/L	501	ND	86.7	49-134			
Surrogate: Dibromofluoromethane	516		ug/L	502		103	57-128			
Surrogate: Dibromofluoromethane	516		ug/L	502		103	75-136			
Surrogate: 1,2-Dichloroethane-d4	610		ug/L	504		121	49-135			
Surrogate: 1,2-Dichloroethane-d4	610		ug/L	504		121	49-135			
Surrogate: 1,2-Dichloroethane-d4	610		ug/L	504		121	61-142			
Surrogate: Toluene-d8	525		ug/L	505		104	82-116			
Surrogate: Toluene-d8	525		ug/L	505		104	82-116			
Surrogate: Toluene-d8	525		ug/L	505		104	82-121			
Surrogate: 4-Bromofluorobenzene	570		ug/L	502		114	77-114			
Surrogate: 4-Bromofluorobenzene	570		ug/L	502		114	77-114			
Surrogate: 4-Bromofluorobenzene	570		ug/L	502		114	80-116			
Matrix Spike Dup (1IJ1171-MSD1)	Source: 1IJ1462-01			Prepared: 10/20/25 00:00 Analyzed: 10/20/25 19:28						
Chloromethane	274.0	10.0	ug/L	303	ND	90.4	61-152	0.402	26	
Vinyl Chloride	499.3	10.0	ug/L	302	ND	165	66-149	6.25	23	M1
Bromomethane	236.0	10.0	ug/L	301	ND	78.3	43-171	4.64	29	
Chloroethane	278.4	10.0	ug/L	303	ND	91.8	69-148	2.17	25	
Trichlorofluoromethane	302.0	10.0	ug/L	303	ND	99.7	62-163	5.38	25	
Acrolein	602.2	100	ug/L	503	ND	120	10-170	3.48	30	
1,1-Dichloroethylene	614.8	10.0	ug/L	501	ND	123	70-148	2.96	22	
Acetone	1549	100	ug/L	1000	ND	155	45-173	1.44	30	
Methyl Iodide	1063	10.0	ug/L	1000	ND	106	62-167	3.62	24	
Carbon Disulfide	1007	10.0	ug/L	1000	ND	101	71-163	0.663	22	

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CERTIFICATE OF ANALYSIS

11J1462

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 11J1171 - EPA 5030B - EPA 8260D										
Matrix Spike Dup (11J1171-MSD1) Source: 11J1462-01 Prepared: 10/20/25 00:00 Analyzed: 10/20/25 19:28										
Methylene Chloride	495.6	50.0	ug/L	501	ND	98.9	69-140	0.364	19	
Acrylonitrile	613.8	50.0	ug/L	504	ND	122	32-159	0.0814	30	
Acrylonitrile	613.8	50.0	ug/L	504	ND	122	32-159	0.0814	30	
trans-1,2-Dichloroethylene	611.9	10.0	ug/L	501	ND	122	69-144	3.36	22	
1,1-Dichloroethane	604.1	10.0	ug/L	501	ND	121	70-138	3.96	20	
Vinyl Acetate	1626	50.0	ug/L	1420	ND	114	58-142	3.41	24	
cis-1,2-Dichloroethylene	520.4	10.0	ug/L	504	ND	103	68-151	2.93	22	
2-Butanone (MEK)	1287	100	ug/L	1000	ND	129	50-160	6.12	23	
Bromochloromethane	651.6	10.0	ug/L	504	ND	129	65-143	0.490	22	
Chloroform	557.8	10.0	ug/L	501	ND	111	71-143	0.828	21	
1,1,1-Trichloroethane	557.1	10.0	ug/L	501	ND	111	63-133	3.04	23	
Carbon Tetrachloride	565.9	10.0	ug/L	501	ND	113	63-142	0.669	22	
Benzene	552.0	10.0	ug/L	504	ND	109	69-133	1.72	18	
1,2-Dichloroethane	650.8	10.0	ug/L	501	ND	130	63-138	2.88	20	
Trichloroethylene	553.6	10.0	ug/L	501	ND	111	71-133	1.08	23	
1,2-Dichloropropane	568.3	10.0	ug/L	501	ND	113	69-132	1.26	20	
Dibromomethane	485.5	10.0	ug/L	504	ND	96.4	70-147	2.84	22	
Bromodichloromethane	560.3	10.0	ug/L	501	ND	112	67-130	0.0357	21	
cis-1,3-Dichloropropene	465.3	10.0	ug/L	501	ND	92.9	61-126	1.17	21	
4-Methyl-2-pentanone (MIBK)	1268	50.0	ug/L	1000	ND	127	55-147	0.712	23	
Toluene	547.9	10.0	ug/L	505	ND	109	71-133	2.51	19	
trans-1,3-Dichloropropene	528.8	10.0	ug/L	501	ND	106	63-124	0.528	21	
1,1,2-Trichloroethane	555.7	10.0	ug/L	501	ND	111	69-133	2.39	19	
Tetrachloroethylene	496.5	10.0	ug/L	501	ND	99.1	70-124	4.87	24	
2-Hexanone (MBK)	1228	50.0	ug/L	1000	ND	123	53-141	1.53	24	
Dibromochloromethane	444.0	10.0	ug/L	501	ND	88.7	74-122	1.50	21	
1,2-Dibromoethane	492.8	10.0	ug/L	502	ND	98.1	66-127	0.365	23	
Chlorobenzene	499.3	10.0	ug/L	501	ND	99.7	76-116	3.46	21	
1,1,1,2-Tetrachloroethane	474.9	10.0	ug/L	503	ND	94.3	77-121	1.15	25	
Ethylbenzene	546.8	10.0	ug/L	502	ND	109	73-124	0.493	20	
Xylenes, total	1679	20.0	ug/L	1510	ND	111	75-123	3.15	20	
Styrene	525.3	10.0	ug/L	504	ND	104	70-120	1.32	23	
Bromoform	482.1	10.0	ug/L	501	ND	96.2	70-124	3.69	22	
1,2,3-Trichloropropane	519.6	10.0	ug/L	503	ND	103	62-135	3.68	28	
trans-1,4-Dichloro-2-butene	1122	50.0	ug/L	1000	ND	112	50-120	0.107	26	
1,1,2,2-Tetrachloroethane	530.9	10.0	ug/L	501	ND	106	63-126	0.680	24	
1,4-Dichlorobenzene	506.8	10.0	ug/L	501	ND	101	72-119	2.90	24	
1,2-Dichlorobenzene	499.7	10.0	ug/L	501	ND	99.8	71-117	1.73	24	
1,2-Dibromo-3-chloropropane	439.4	50.0	ug/L	501	ND	87.7	49-134	1.12	28	
Surrogate: Dibromofluoromethane	515		ug/L	502		103	57-128			
Surrogate: Dibromofluoromethane	515		ug/L	502		103	75-136			
Surrogate: 1,2-Dichloroethane-d4	622		ug/L	504		123	49-135			
Surrogate: 1,2-Dichloroethane-d4	622		ug/L	504		123	49-135			

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CERTIFICATE OF ANALYSIS

1IJ1462

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1IJ1171 - EPA 5030B - EPA 8260D										
Matrix Spike Dup (1IJ1171-MSD1)	Source: 1IJ1462-01			Prepared: 10/20/25 00:00 Analyzed: 10/20/25 19:28						
Surrogate: 1,2-Dichloroethane-d4	622		ug/L	504		123	61-142			
Surrogate: Toluene-d8	524		ug/L	505		104	82-116			
Surrogate: Toluene-d8	524		ug/L	505		104	82-116			
Surrogate: Toluene-d8	524		ug/L	505		104	82-121			
Surrogate: 4-Bromofluorobenzene	566		ug/L	502		113	77-114			
Surrogate: 4-Bromofluorobenzene	566		ug/L	502		113	77-114			
Surrogate: 4-Bromofluorobenzene	566		ug/L	502		113	80-116			
Batch 1IJ1423 - EPA 5030B - EPA 8260D										
Blank (1IJ1423-BLK1)	Prepared: 10/23/25 00:00 Analyzed: 10/23/25 10:35									
Carbon Disulfide	<1.0	1.0	ug/L							
Surrogate: Dibromofluoromethane	46.8		ug/L	50.2		93.3	75-136			
Surrogate: 1,2-Dichloroethane-d4	57.4		ug/L	50.4		114	61-142			
Surrogate: Toluene-d8	51.1		ug/L	50.5		101	82-121			
Surrogate: 4-Bromofluorobenzene	51.4		ug/L	50.2		103	80-116			
LCS (1IJ1423-BS1)	Prepared: 10/23/25 00:00 Analyzed: 10/23/25 15:32									
Carbon Disulfide	104.7	1.0	ug/L	100		105	72-162			
Surrogate: Dibromofluoromethane	47.9		ug/L	50.2		95.4	75-136			
Surrogate: 1,2-Dichloroethane-d4	58.1		ug/L	50.4		115	61-142			
Surrogate: Toluene-d8	50.8		ug/L	50.5		101	82-121			
Surrogate: 4-Bromofluorobenzene	57.3		ug/L	50.2		114	80-116			
LCS Dup (1IJ1423-BSD1)	Prepared: 10/23/25 00:00 Analyzed: 10/23/25 15:55									
Carbon Disulfide	107.0	1.0	ug/L	100		107	72-162	2.18	24	
Surrogate: Dibromofluoromethane	47.6		ug/L	50.2		94.8	75-136			
Surrogate: 1,2-Dichloroethane-d4	28.1		ug/L	50.4		55.8	61-142			S2
Surrogate: Toluene-d8	51.9		ug/L	50.5		103	82-121			
Surrogate: 4-Bromofluorobenzene	57.2		ug/L	50.2		114	80-116			
Matrix Spike (1IJ1423-MS1)	Source: 3IJ0087-07			Prepared: 10/23/25 00:00 Analyzed: 10/23/25 16:18						
Carbon Disulfide	1092	10.0	ug/L	1000	ND	109	71-163			
Surrogate: Dibromofluoromethane	474		ug/L	502		94.5	75-136			
Surrogate: 1,2-Dichloroethane-d4	590		ug/L	504		117	61-142			
Surrogate: Toluene-d8	519		ug/L	505		103	82-121			
Surrogate: 4-Bromofluorobenzene	573		ug/L	502		114	80-116			
Matrix Spike Dup (1IJ1423-MSD1)	Source: 3IJ0087-07			Prepared: 10/23/25 00:00 Analyzed: 10/23/25 16:41						
Carbon Disulfide	1048	10.0	ug/L	1000	ND	105	71-163	4.11	22	
Surrogate: Dibromofluoromethane	493		ug/L	502		98.2	75-136			
Surrogate: 1,2-Dichloroethane-d4	588		ug/L	504		117	61-142			
Surrogate: Toluene-d8	512		ug/L	505		102	82-121			
Surrogate: 4-Bromofluorobenzene	583		ug/L	502		116	80-116			

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CERTIFICATE OF ANALYSIS

1IJ1462

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1IJ1499 - EPA 5030B - EPA 8260D										
Blank (1IJ1499-BLK1)				Prepared: 10/24/25 00:00 Analyzed: 10/24/25 10:44						
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	<2.0	2.0	ug/L							
Carbon Disulfide	<1.0	1.0	ug/L							
Acetonitrile	<10.0	10.0	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							
2,2-Dichloropropane	<1.0	1.0	ug/L							
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L							
2-Butanone (MEK)	<5.0	5.0	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							
1,1-Dichloropropene	<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							
Ethyl Methacrylate	<10.0	10.0	ug/L							
1,1,2-Trichloroethane	<1.0	1.0	ug/L							
Tetrachloroethylene	<1.0	1.0	ug/L							
1,3-Dichloropropane	<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							

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CERTIFICATE OF ANALYSIS

11J1462

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 11J1499 - EPA 5030B - EPA 8260D										
Blank (11J1499-BLK1)										
				Prepared: 10/24/25 00:00 Analyzed: 10/24/25 10:44						
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							
1,3-Dichlorobenzene	<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	<1.0	1.0	ug/L							
1,2,4-Trichlorobenzene	<1.0	1.0	ug/L							
Surrogate: Dibromofluoromethane	47.2		ug/L	50.2		94.0	57-128			
Surrogate: 1,2-Dichloroethane-d4	55.3		ug/L	50.4		110	49-135			
Surrogate: Toluene-d8	52.2		ug/L	50.5		103	82-116			
Surrogate: 4-Bromofluorobenzene	52.0		ug/L	50.2		104	77-114			
LCS (11J1499-BS1)										
				Prepared: 10/24/25 00:00 Analyzed: 10/24/25 17:12						
Dichlorodifluoromethane	28.06	1.0	ug/L	30.3		92.6	55-141			
Chloromethane	31.27	1.0	ug/L	30.3		103	45-170			
Vinyl Chloride	52.67	1.0	ug/L	30.2		174	51-157			Q2
Bromomethane	28.33	1.0	ug/L	30.1		94.1	51-161			
Chloroethane	28.30	1.0	ug/L	30.3		93.3	68-134			
Trichlorofluoromethane	31.80	1.0	ug/L	30.3		105	54-146			
1,1-Dichloroethylene	63.20	1.0	ug/L	50.1		126	63-137			
Acetone	147.2	10.0	ug/L	100		147	50-156			
Methyl Iodide	85.45	2.0	ug/L	100		85.4	62-147			
Carbon Disulfide	107.3	1.0	ug/L	100		107	60-129			
Acetonitrile	131.8	10.0	ug/L	100		132	53-151			
Methylene Chloride	49.56	5.0	ug/L	50.1		98.9	66-126			
trans-1,2-Dichloroethylene	62.81	1.0	ug/L	50.1		125	68-134			
1,1-Dichloroethane	60.78	1.0	ug/L	50.1		121	69-133			
Vinyl Acetate	151.3	5.0	ug/L	142		106	69-151			
2,2-Dichloropropane	58.30	1.0	ug/L	50.3		116	59-141			
cis-1,2-Dichloroethylene	52.74	1.0	ug/L	50.4		105	70-132			
2-Butanone (MEK)	131.2	5.0	ug/L	100		131	57-136			
Bromochloromethane	64.55	1.0	ug/L	50.4		128	73-127			Q2
Chloroform	54.50	1.0	ug/L	50.1		109	67-130			
1,1,1-Trichloroethane	56.69	1.0	ug/L	50.1		113	63-135			
1,1-Dichloropropene	57.66	1.0	ug/L	50.5		114	66-134			
Carbon Tetrachloride	55.93	1.0	ug/L	50.1		112	67-134			
Benzene	57.32	1.0	ug/L	50.4		114	80-118			
1,2-Dichloroethane	65.63	1.0	ug/L	50.1		131	77-126			Q2
Trichloroethylene	58.90	1.0	ug/L	50.1		118	79-120			

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CERTIFICATE OF ANALYSIS

1IJ1462

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1IJ1499 - EPA 5030B - EPA 8260D										
LCS (1IJ1499-BS1)										
Prepared: 10/24/25 00:00 Analyzed: 10/24/25 17:12										
1,2-Dichloropropane	59.31	1.0	ug/L	50.1		118	80-121			
Dibromomethane	50.32	1.0	ug/L	50.4		99.9	75-122			
Bromodichloromethane	58.54	1.0	ug/L	50.1		117	79-123			
cis-1,3-Dichloropropene	48.70	1.0	ug/L	50.1		97.2	77-116			
4-Methyl-2-pentanone (MIBK)	128.8	5.0	ug/L	100		129	64-138			
Toluene	57.92	1.0	ug/L	50.5		115	79-118			
trans-1,3-Dichloropropene	56.89	1.0	ug/L	50.1		114	77-116			
Ethyl Methacrylate	98.97	10.0	ug/L	100		99.0	63-130			
1,1,2-Trichloroethane	57.34	1.0	ug/L	50.1		114	80-117			
Tetrachloroethylene	53.76	1.0	ug/L	50.1		107	77-126			
1,3-Dichloropropane	55.68	1.0	ug/L	50.4		110	79-131			
2-Hexanone (MBK)	122.2	5.0	ug/L	100		122	60-149			
Dibromochloromethane	44.46	1.0	ug/L	50.1		88.8	86-121			
1,2-Dibromoethane	50.37	1.0	ug/L	50.2		100	77-124			
Chlorobenzene	51.83	1.0	ug/L	50.1		103	77-124			
1,1,1,2-Tetrachloroethane	48.81	1.0	ug/L	50.3		97.0	84-117			
Ethylbenzene	56.81	1.0	ug/L	50.2		113	79-128			
Xylenes, total	176.7	2.0	ug/L	151		117	81-124			
Styrene	54.90	1.0	ug/L	50.4		109	83-124			
Bromoform	49.01	1.0	ug/L	50.1		97.8	81-121			
1,2,3-Trichloropropane	56.03	1.0	ug/L	50.3		111	76-120			
trans-1,4-Dichloro-2-butene	115.2	5.0	ug/L	100		115	55-128			
1,1,2,2-Tetrachloroethane	52.48	1.0	ug/L	50.1		105	65-138			
1,3-Dichlorobenzene	54.53	1.0	ug/L	50.1		109	78-122			
1,4-Dichlorobenzene	51.69	1.0	ug/L	50.1		103	72-125			
1,2-Dichlorobenzene	50.25	1.0	ug/L	50.1		100	76-124			
1,2-Dibromo-3-chloropropane	44.24	1.0	ug/L	50.1		88.3	28-160			
1,2,4-Trichlorobenzene	52.03	1.0	ug/L	50.4		103	34-154			
Surrogate: Dibromofluoromethane	47.8		ug/L	50.2		95.1	57-128			
Surrogate: 1,2-Dichloroethane-d4	58.6		ug/L	50.4		116	49-135			
Surrogate: Toluene-d8	52.5		ug/L	50.5		104	82-116			
Surrogate: 4-Bromofluorobenzene	57.9		ug/L	50.2		115	77-114			S1
LCS Dup (1IJ1499-BSD1)										
Prepared: 10/24/25 00:00 Analyzed: 10/24/25 17:35										
Dichlorodifluoromethane	28.81	1.0	ug/L	30.3		95.1	55-141	2.64	24	
Chloromethane	32.44	1.0	ug/L	30.3		107	45-170	3.67	25	
Vinyl Chloride	50.05	1.0	ug/L	30.2		165	51-157	5.10	23	Q2
Bromomethane	49.70	1.0	ug/L	30.1		165	51-161	54.8	22	Q2, R1
Chloroethane	28.15	1.0	ug/L	30.3		92.8	68-134	0.531	21	
Trichlorofluoromethane	31.75	1.0	ug/L	30.3		105	54-146	0.157	23	
1,1-Dichloroethylene	61.83	1.0	ug/L	50.1		123	63-137	2.19	23	
Acetone	138.2	10.0	ug/L	100		138	50-156	6.32	30	
Methyl Iodide	96.53	2.0	ug/L	100		96.5	62-147	12.2	17	

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CERTIFICATE OF ANALYSIS

11J1462

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 11J1499 - EPA 5030B - EPA 8260D										
LCS Dup (11J1499-BSD1)				Prepared: 10/24/25 00:00 Analyzed: 10/24/25 17:35						
Carbon Disulfide	107.3	1.0	ug/L	100		107	60-129	0.0559	20	
Acetonitrile	123.8	10.0	ug/L	100		124	53-151	6.31	30	
Methylene Chloride	52.02	5.0	ug/L	50.1		104	66-126	4.84	14	
trans-1,2-Dichloroethylene	62.04	1.0	ug/L	50.1		124	68-134	1.23	17	
1,1-Dichloroethane	62.56	1.0	ug/L	50.1		125	69-133	2.89	14	
Vinyl Acetate	160.4	5.0	ug/L	142		113	69-151	5.81	30	
2,2-Dichloropropane	58.06	1.0	ug/L	50.3		115	59-141	0.413	30	
cis-1,2-Dichloroethylene	52.27	1.0	ug/L	50.4		104	70-132	0.895	13	
2-Butanone (MEK)	126.5	5.0	ug/L	100		127	57-136	3.65	30	
Bromochloromethane	65.26	1.0	ug/L	50.4		129	73-127	1.09	30	Q2
Chloroform	54.96	1.0	ug/L	50.1		110	67-130	0.840	13	
1,1,1-Trichloroethane	55.76	1.0	ug/L	50.1		111	63-135	1.65	15	
1,1-Dichloropropene	58.84	1.0	ug/L	50.5		117	66-134	2.03	30	
Carbon Tetrachloride	55.93	1.0	ug/L	50.1		112	67-134	0.00	16	
Benzene	56.52	1.0	ug/L	50.4		112	80-118	1.41	13	
1,2-Dichloroethane	63.94	1.0	ug/L	50.1		128	77-126	2.61	16	Q2
Trichloroethylene	56.55	1.0	ug/L	50.1		113	79-120	4.07	16	
1,2-Dichloropropane	58.69	1.0	ug/L	50.1		117	80-121	1.05	13	
Dibromomethane	48.89	1.0	ug/L	50.4		97.1	75-122	2.88	30	
Bromodichloromethane	56.74	1.0	ug/L	50.1		113	79-123	3.12	12	
cis-1,3-Dichloropropene	47.96	1.0	ug/L	50.1		95.8	77-116	1.53	13	
4-Methyl-2-pentanone (MIBK)	125.3	5.0	ug/L	100		125	64-138	2.76	30	
Toluene	55.76	1.0	ug/L	50.5		110	79-118	3.80	14	
trans-1,3-Dichloropropene	56.24	1.0	ug/L	50.1		112	77-116	1.15	17	
Ethyl Methacrylate	98.30	10.0	ug/L	100		98.3	63-130	0.679	30	
1,1,2-Trichloroethane	54.54	1.0	ug/L	50.1		109	80-117	5.01	18	
Tetrachloroethylene	51.58	1.0	ug/L	50.1		103	77-126	4.14	15	
1,3-Dichloropropane	55.29	1.0	ug/L	50.4		110	79-131	0.703	30	
2-Hexanone (MBK)	118.2	5.0	ug/L	100		118	60-149	3.32	30	
Dibromochloromethane	44.80	1.0	ug/L	50.1		89.5	86-121	0.762	14	
1,2-Dibromoethane	50.65	1.0	ug/L	50.2		101	77-124	0.554	30	
Chlorobenzene	50.62	1.0	ug/L	50.1		101	77-124	2.36	14	
1,1,1,2-Tetrachloroethane	48.09	1.0	ug/L	50.3		95.5	84-117	1.49	30	
Ethylbenzene	54.93	1.0	ug/L	50.2		109	79-128	3.36	14	
Xylenes, total	170.9	2.0	ug/L	151		113	81-124	3.32	16	
Styrene	53.11	1.0	ug/L	50.4		105	83-124	3.31	30	
Bromoform	49.27	1.0	ug/L	50.1		98.3	81-121	0.529	21	
1,2,3-Trichloropropane	52.59	1.0	ug/L	50.3		104	76-120	6.33	30	
trans-1,4-Dichloro-2-butene	116.8	5.0	ug/L	100		117	55-128	1.36	30	
1,1,2,2-Tetrachloroethane	53.45	1.0	ug/L	50.1		107	65-138	1.83	27	
1,3-Dichlorobenzene	52.88	1.0	ug/L	50.1		106	78-122	3.07	13	
1,4-Dichlorobenzene	51.73	1.0	ug/L	50.1		103	72-125	0.0774	11	
1,2-Dichlorobenzene	51.01	1.0	ug/L	50.1		102	76-124	1.50	13	

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CERTIFICATE OF ANALYSIS

1IJ1462

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1IJ1499 - EPA 5030B - EPA 8260D										
LCS Dup (1IJ1499-BSD1)				Prepared: 10/24/25 00:00 Analyzed: 10/24/25 17:35						
1,2-Dibromo-3-chloropropane	43.21	1.0	ug/L	50.1		86.2	28-160	2.36	30	
1,2,4-Trichlorobenzene	52.84	1.0	ug/L	50.4		105	34-154	1.54	30	
Surrogate: Dibromofluoromethane	49.5		ug/L	50.2		98.6	57-128			
Surrogate: 1,2-Dichloroethane-d4	60.1		ug/L	50.4		119	49-135			
Surrogate: Toluene-d8	51.5		ug/L	50.5		102	82-116			
Surrogate: 4-Bromofluorobenzene	58.6		ug/L	50.2		117	77-114			S1
Matrix Spike (1IJ1499-MS1)				Source: 1IJ1987-01	Prepared: 10/24/25 00:00 Analyzed: 10/24/25 17:58					
Dichlorodifluoromethane	303.8	10.0	ug/L	303	ND	100	58-130			
Chloromethane	325.2	10.0	ug/L	303	ND	107	40-170			
Vinyl Chloride	534.3	10.0	ug/L	302	ND	177	49-154			M1
Bromomethane	501.0	10.0	ug/L	301	ND	166	44-159			M1
Chloroethane	532.9	10.0	ug/L	303	ND	176	67-132			M1
Trichlorofluoromethane	653.4	10.0	ug/L	303	ND	216	56-142			M1
1,1-Dichloroethylene	1139	10.0	ug/L	501	ND	227	63-136			M1
Acetone	3087	100	ug/L	1000	ND	309	42-165			M1
Methyl Iodide	1826	20.0	ug/L	1000	ND	183	67-133			M1
Carbon Disulfide	1981	10.0	ug/L	1000	ND	198	56-129			M1
Acetonitrile	1367	100	ug/L	1000	ND	137	61-141			
Methylene Chloride	506.0	50.0	ug/L	501	ND	101	62-129			
trans-1,2-Dichloroethylene	616.1	10.0	ug/L	501	ND	123	65-136			
1,1-Dichloroethane	611.6	10.0	ug/L	501	ND	122	64-137			
Vinyl Acetate	1575	50.0	ug/L	1420	ND	111	69-148			
2,2-Dichloropropane	570.9	10.0	ug/L	503	ND	113	52-123			
cis-1,2-Dichloroethylene	534.9	10.0	ug/L	504	ND	106	65-136			
2-Butanone (MEK)	1314	50.0	ug/L	1000	ND	131	56-147			
Bromochloromethane	644.2	10.0	ug/L	504	ND	128	78-121			M1
Chloroform	550.1	10.0	ug/L	501	ND	110	64-133			
1,1,1-Trichloroethane	567.3	10.0	ug/L	501	ND	113	61-138			
1,1-Dichloropropene	577.2	10.0	ug/L	505	ND	114	69-130			
Carbon Tetrachloride	570.9	10.0	ug/L	501	ND	114	62-140			
Benzene	574.8	10.0	ug/L	504	ND	114	62-137			
1,2-Dichloroethane	658.8	10.0	ug/L	501	ND	132	69-135			
Trichloroethylene	570.7	10.0	ug/L	501	ND	114	77-123			
1,2-Dichloropropane	592.9	10.0	ug/L	501	ND	118	77-126			
Dibromomethane	508.4	10.0	ug/L	504	ND	101	83-116			
Bromodichloromethane	581.5	10.0	ug/L	501	ND	116	73-131			
cis-1,3-Dichloropropene	494.1	10.0	ug/L	501	ND	98.7	71-115			
4-Methyl-2-pentanone (MIBK)	1282	50.0	ug/L	1000	ND	128	71-138			
Toluene	566.8	10.0	ug/L	505	ND	112	76-121			
trans-1,3-Dichloropropene	577.8	10.0	ug/L	501	ND	115	76-113			M1
Ethyl Methacrylate	1017	100	ug/L	1000	ND	102	74-121			
1,1,2-Trichloroethane	553.4	10.0	ug/L	501	ND	110	80-122			

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Page 37 of 58



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CERTIFICATE OF ANALYSIS

1IJ1462

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1IJ1499 - EPA 5030B - EPA 8260D										
Matrix Spike (1IJ1499-MS1)	Source: 1IJ1987-01			Prepared: 10/24/25 00:00 Analyzed: 10/24/25 17:58						
Tetrachloroethylene	512.6	10.0	ug/L	501	ND	102	76-125			
1,3-Dichloropropane	572.3	10.0	ug/L	504	ND	113	79-133			
2-Hexanone (MBK)	1337	50.0	ug/L	1000	ND	134	64-154			
Dibromochloromethane	453.3	10.0	ug/L	501	ND	90.5	84-122			
1,2-Dibromoethane	518.8	10.0	ug/L	502	ND	103	81-120			
Chlorobenzene	519.6	10.0	ug/L	501	ND	104	78-123			
1,1,1,2-Tetrachloroethane	498.0	10.0	ug/L	503	ND	98.9	83-117			
Ethylbenzene	563.9	10.0	ug/L	502	ND	112	76-130			
Xylenes, total	1779	20.0	ug/L	1510	ND	118	77-129			
Styrene	549.3	10.0	ug/L	504	ND	109	84-122			
Bromoform	503.1	10.0	ug/L	501	ND	100	83-120			
1,2,3-Trichloropropane	529.2	10.0	ug/L	503	ND	105	74-126			
trans-1,4-Dichloro-2-butene	1154	50.0	ug/L	1000	ND	115	63-114			M1
1,1,2,2-Tetrachloroethane	546.4	10.0	ug/L	501	ND	109	66-143			
1,3-Dichlorobenzene	537.7	10.0	ug/L	501	ND	107	77-120			
1,4-Dichlorobenzene	520.4	10.0	ug/L	501	ND	104	71-123			
1,2-Dichlorobenzene	516.3	10.0	ug/L	501	ND	103	76-122			
1,2-Dibromo-3-chloropropane	432.2	10.0	ug/L	501	ND	86.2	38-161			
1,2,4-Trichlorobenzene	538.2	10.0	ug/L	504	ND	107	33-150			
Surrogate: Dibromofluoromethane	476		ug/L	502		94.8	57-128			
Surrogate: 1,2-Dichloroethane-d4	592		ug/L	504		118	49-135			
Surrogate: Toluene-d8	516		ug/L	505		102	82-116			
Surrogate: 4-Bromofluorobenzene	577		ug/L	502		115	77-114			S1
Matrix Spike Dup (1IJ1499-MSD1)	Source: 1IJ1987-01			Prepared: 10/24/25 00:00 Analyzed: 10/24/25 18:21						
Dichlorodifluoromethane	319.5	10.0	ug/L	303	ND	105	58-130	5.04	30	
Chloromethane	320.1	10.0	ug/L	303	ND	106	40-170	1.58	16	
Vinyl Chloride	506.1	10.0	ug/L	302	ND	167	49-154	5.42	17	M1
Bromomethane	255.1	10.0	ug/L	301	ND	84.7	44-159	65.0	15	R1
Chloroethane	274.4	10.0	ug/L	303	ND	90.5	67-132	64.0	15	R1
Trichlorofluoromethane	309.1	10.0	ug/L	303	ND	102	56-142	71.5	18	R1
1,1-Dichloroethylene	622.1	10.0	ug/L	501	ND	124	63-136	58.7	16	R1
Acetone	1734	100	ug/L	1000	ND	173	42-165	56.1	30	M1, R1
Methyl Iodide	996.2	20.0	ug/L	1000	ND	99.6	67-133	58.8	14	R1
Carbon Disulfide	1056	10.0	ug/L	1000	ND	106	56-129	60.9	16	R1
Acetonitrile	1307	100	ug/L	1000	ND	131	61-141	4.49	10	
Methylene Chloride	510.8	50.0	ug/L	501	ND	102	62-129	0.944	14	
trans-1,2-Dichloroethylene	618.0	10.0	ug/L	501	ND	123	65-136	0.308	14	
1,1-Dichloroethane	614.4	10.0	ug/L	501	ND	123	64-137	0.457	15	
Vinyl Acetate	1601	50.0	ug/L	1420	ND	112	69-148	1.62	16	
2,2-Dichloropropane	568.0	10.0	ug/L	503	ND	113	52-123	0.509	18	
cis-1,2-Dichloroethylene	513.9	10.0	ug/L	504	ND	102	65-136	4.00	16	
2-Butanone (MEK)	1334	50.0	ug/L	1000	ND	133	56-147	1.57	19	

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Page 38 of 58



Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

1IJ1462

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1IJ1499 - EPA 5030B - EPA 8260D										
Matrix Spike Dup (1IJ1499-MSD1)										
Source: 1IJ1987-01			Prepared: 10/24/25 00:00 Analyzed: 10/24/25 18:21							
Bromochloromethane	640.2	10.0	ug/L	504	ND	127	78-121	0.623	16	M1
Chloroform	542.3	10.0	ug/L	501	ND	108	64-133	1.43	14	
1,1,1-Trichloroethane	560.5	10.0	ug/L	501	ND	112	61-138	1.21	15	
1,1-Dichloropropene	571.9	10.0	ug/L	505	ND	113	69-130	0.922	16	
Carbon Tetrachloride	557.3	10.0	ug/L	501	ND	111	62-140	2.41	15	
Benzene	568.7	10.0	ug/L	504	ND	113	62-137	1.07	16	
1,2-Dichloroethane	661.8	10.0	ug/L	501	ND	132	69-135	0.454	15	
Trichloroethylene	565.7	10.0	ug/L	501	ND	113	77-123	0.880	14	
1,2-Dichloropropane	595.8	10.0	ug/L	501	ND	119	77-126	0.488	13	
Dibromomethane	488.5	10.0	ug/L	504	ND	97.0	83-116	3.99	13	
Bromodichloromethane	590.6	10.0	ug/L	501	ND	118	73-131	1.55	16	
cis-1,3-Dichloropropene	505.5	10.0	ug/L	501	ND	101	71-115	2.28	15	
4-Methyl-2-pentanone (MIBK)	1292	50.0	ug/L	1000	ND	129	71-138	0.839	10	
Toluene	558.6	10.0	ug/L	505	ND	111	76-121	1.46	16	
trans-1,3-Dichloropropene	564.9	10.0	ug/L	501	ND	113	76-113	2.26	10	
Ethyl Methacrylate	1027	100	ug/L	1000	ND	103	74-121	0.959	10	
1,1,2-Trichloroethane	569.4	10.0	ug/L	501	ND	114	80-122	2.85	11	
Tetrachloroethylene	504.7	10.0	ug/L	501	ND	101	76-125	1.55	15	
1,3-Dichloropropane	563.5	10.0	ug/L	504	ND	112	79-133	1.55	13	
2-Hexanone (MBK)	1327	50.0	ug/L	1000	ND	133	64-154	0.766	12	
Dibromochloromethane	455.1	10.0	ug/L	501	ND	90.9	84-122	0.396	13	
1,2-Dibromoethane	507.0	10.0	ug/L	502	ND	101	81-120	2.30	13	
Chlorobenzene	509.1	10.0	ug/L	501	ND	102	78-123	2.04	12	
1,1,1,2-Tetrachloroethane	494.7	10.0	ug/L	503	ND	98.3	83-117	0.665	16	
Ethylbenzene	553.6	10.0	ug/L	502	ND	110	76-130	1.84	13	
Xylenes, total	1718	20.0	ug/L	1510	ND	114	77-129	3.52	13	
Styrene	534.8	10.0	ug/L	504	ND	106	84-122	2.68	14	
Bromoform	492.7	10.0	ug/L	501	ND	98.3	83-120	2.09	10	
1,2,3-Trichloropropane	535.3	10.0	ug/L	503	ND	106	74-126	1.15	13	
trans-1,4-Dichloro-2-butene	1151	50.0	ug/L	1000	ND	115	63-114	0.226	14	M1
1,1,2,2-Tetrachloroethane	536.6	10.0	ug/L	501	ND	107	66-143	1.81	16	
1,3-Dichlorobenzene	535.3	10.0	ug/L	501	ND	107	77-120	0.447	18	
1,4-Dichlorobenzene	516.8	10.0	ug/L	501	ND	103	71-123	0.694	16	
1,2-Dichlorobenzene	506.5	10.0	ug/L	501	ND	101	76-122	1.92	17	
1,2-Dibromo-3-chloropropane	456.7	10.0	ug/L	501	ND	91.1	38-161	5.51	27	
1,2,4-Trichlorobenzene	513.2	10.0	ug/L	504	ND	102	33-150	4.76	29	
Surrogate: Dibromofluoromethane	492		ug/L	502		98.0	57-128			
Surrogate: 1,2-Dichloroethane-d4	589		ug/L	504		117	49-135			
Surrogate: Toluene-d8	522		ug/L	505		103	82-116			
Surrogate: 4-Bromofluorobenzene	583		ug/L	502		116	77-114			S1

Batch 1IJ1564 - EPA 5030B - EPA 8260D



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CERTIFICATE OF ANALYSIS

1IJ1462

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	Limits	RPD	Limit	Notes
Batch 1IJ1564 - EPA 5030B - EPA 8260D										
Blank (1IJ1564-BLK1)				Prepared: 10/27/25 00:00 Analyzed: 10/27/25 17:09						
Allyl chloride	<1.0	1.0	ug/L							
Chloroprene	<1.0	1.0	ug/L							
Methacrylonitrile	<1.0	1.0	ug/L							
Methyl Methacrylate	<1.0	1.0	ug/L							
Propionitrile	<10.0	10.0	ug/L							
Surrogate: Dibromofluoromethane	51.7		ug/L	50.2		103	57-128			S1
Surrogate: 1,2-Dichloroethane-d4	104		ug/L	50.4		206	49-135			
Surrogate: Toluene-d8	51.7		ug/L	50.5		102	82-116			
Surrogate: 4-Bromofluorobenzene	49.4		ug/L	50.2		98.5	77-114			
LCS (1IJ1564-BS1)				Prepared: 10/27/25 00:00 Analyzed: 10/27/25 16:00						
Allyl chloride	53.15	1.0	ug/L	50.0		106	56-152			
Chloroprene	56.92	1.0	ug/L	50.0		114	58-152			
Methacrylonitrile	49.78	1.0	ug/L	50.0		99.6	67-129			
Methyl Methacrylate	50.41	1.0	ug/L	50.0		101	73-122			
Propionitrile	48.09	10.0	ug/L	50.0		96.2	57-157			
Surrogate: Dibromofluoromethane	49.8		ug/L	50.2		99.2	57-128			
Surrogate: 1,2-Dichloroethane-d4	46.6		ug/L	50.4		92.5	49-135			
Surrogate: Toluene-d8	49.0		ug/L	50.5		97.2	82-116			
Surrogate: 4-Bromofluorobenzene	50.3		ug/L	50.2		100	77-114			
LCS Dup (1IJ1564-BSD1)				Prepared: 10/27/25 00:00 Analyzed: 10/27/25 16:23						
Allyl chloride	51.38	1.0	ug/L	50.0		103	56-152	3.39	16	
Chloroprene	55.11	1.0	ug/L	50.0		110	58-152	3.23	30	
Methacrylonitrile	52.19	1.0	ug/L	50.0		104	67-129	4.73	30	
Methyl Methacrylate	49.95	1.0	ug/L	50.0		99.9	73-122	0.917	17	
Propionitrile	52.55	10.0	ug/L	50.0		105	57-157	8.86	30	
Surrogate: Dibromofluoromethane	51.2		ug/L	50.2		102	57-128			
Surrogate: 1,2-Dichloroethane-d4	47.4		ug/L	50.4		94.1	49-135			
Surrogate: Toluene-d8	49.0		ug/L	50.5		97.1	82-116			
Surrogate: 4-Bromofluorobenzene	51.3		ug/L	50.2		102	77-114			
Matrix Spike (1IJ1564-MS1)				Source: 1IJ1387-05		Prepared: 10/27/25 00:00 Analyzed: 10/27/25 19:03				
Allyl chloride	549.0	10.0	ug/L	500	ND	110	66-136			
Chloroprene	635.4	10.0	ug/L	500	ND	127	67-139			
Methacrylonitrile	576.4	10.0	ug/L	500	ND	115	60-140			
Methyl Methacrylate	576.2	10.0	ug/L	500	ND	115	86-112			M1
Propionitrile	571.5	100	ug/L	500	ND	114	52-182			
Surrogate: Dibromofluoromethane	510		ug/L	502		102	57-128			
Surrogate: 1,2-Dichloroethane-d4	559		ug/L	504		111	49-135			
Surrogate: Toluene-d8	524		ug/L	505		104	82-116			
Surrogate: 4-Bromofluorobenzene	496		ug/L	502		98.9	77-114			
Matrix Spike Dup (1IJ1564-MSD1)				Source: 1IJ1387-05		Prepared: 10/27/25 00:00 Analyzed: 10/27/25 19:26				
Allyl chloride	538.9	10.0	ug/L	500	ND	108	66-136	1.86	30	

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CERTIFICATE OF ANALYSIS

1IJ1462

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1IJ1564 - EPA 5030B - EPA 8260D										
Matrix Spike Dup (1IJ1564-MSD1)	Source: 1IJ1387-05			Prepared: 10/27/25 00:00 Analyzed: 10/27/25 19:26						
Chloroprene	628.1	10.0	ug/L	500	ND	126	67-139	1.16	30	
Methacrylonitrile	576.3	10.0	ug/L	500	ND	115	60-140	0.0174	30	
Methyl Methacrylate	579.5	10.0	ug/L	500	ND	116	86-112	0.571	30	M1
Propionitrile	599.5	100	ug/L	500	ND	120	52-182	4.78	30	
Surrogate: Dibromofluoromethane	511		ug/L	502		102	57-128			
Surrogate: 1,2-Dichloroethane-d4	566		ug/L	504		112	49-135			
Surrogate: Toluene-d8	529		ug/L	505		105	82-116			
Surrogate: 4-Bromofluorobenzene	959		ug/L	502		191	77-114			S1

Determination of General Solvents	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1IJ1478 - Semi-Vol GC - EPA 8015C										
Blank (1IJ1478-BLK1)	Prepared: 10/24/25 11:19 Analyzed: 10/24/25 17:37									
Isobutanol	<1.0	1.0	mg/L							
LCS (1IJ1478-BS1)	Prepared: 10/24/25 11:19 Analyzed: 10/24/25 14:55									
Isobutanol	22.35	1.0	mg/L	24.0		93.1	77-128			
Matrix Spike (1IJ1478-MS1)	Source: 1IJ1904-01			Prepared: 10/24/25 11:19 Analyzed: 10/25/25 01:40						
Isobutanol	25.28	1.0	mg/L	24.0	ND	105	68-127			
Matrix Spike Dup (1IJ1478-MSD1)	Source: 1IJ1904-01			Prepared: 10/24/25 11:19 Analyzed: 10/25/25 02:17						
Isobutanol	28.62	1.0	mg/L	24.0	ND	119	68-127	12.4	30	

Determination of Base/Neutral/Acid Extractable Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1IJ1125 - 3520C BNA Cont Liq - EPA 8270C										
Blank (1IJ1125-BLK1)	Prepared: 10/20/25 09:41 Analyzed: 10/29/25 09:48									
N-Nitrosodimethylamine	<8	8	ug/L							
Methyl Methanesulfonate	<8	8	ug/L							
N-Nitrosodiethylamine	<8	8	ug/L							
N-Nitrosomethylethylamine	<8	8	ug/L							
Ethyl Methanesulfonate	<8	8	ug/L							
Phenol	<8	8	ug/L							
Bis(2-Chloroethyl) Ether	<8	8	ug/L							
2-Chlorophenol	<8	8	ug/L							
Benzyl Alcohol	<8	8	ug/L							
2-Methylphenol (o-Cresol)	<8	8	ug/L							
Bis[2-Chloroisopropyl]ether	<8	8	ug/L							
n-Nitroso-di-n-propylamine	<8	8	ug/L							
N-Nitrosopyrrolidine	<8	8	ug/L							



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CERTIFICATE OF ANALYSIS

1IJ1462

Determination of Base/Neutral/Acid Extractable Compounds	Result	RL	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch 1IJ1125 - 3520C BNA Cont Liq - EPA 8270C									
Blank (1IJ1125-BLK1)				Prepared: 10/20/25 09:41 Analyzed: 10/29/25 09:48					
Acetophenone	<8	8	ug/L						
o-Toluidine	<8	8	ug/L						
(3 & 4)-Methylphenol	<8	8	ug/L						
Hexachloroethane	<8	8	ug/L						
Nitrobenzene	<8	8	ug/L						
N-Nitrosopiperidine	<8	8	ug/L						
Isophorone	<8	8	ug/L						
2-Nitrophenol	<8	8	ug/L						
2,4-Dimethylphenol	<8	8	ug/L						
Bis (2-Chloroethoxy) Methane	<8	8	ug/L						
2,4-Dichlorophenol	<8	8	ug/L						
Naphthalene	<8	8	ug/L						
4-Chloroaniline	<8	8	ug/L						
2,6-Dichlorophenol	<8	8	ug/L						
Hexachloropropene	<8	8	ug/L						
Hexachlorobutadiene	<8	8	ug/L						
N-Nitrosodi-n-butylamine	<8	8	ug/L						
1,4-Phenylenediamine	<8	8	ug/L						
4-Chloro-3-methylphenol	<8	8	ug/L						
2-Methylnaphthalene	<8	8	ug/L						
Isosafrole	<8	8	ug/L						
1,2,4,5-Tetrachlorobenzene	<8	8	ug/L						
Hexachlorocyclopentadiene	<8	8	ug/L						
2,4,6-Trichlorophenol	<8	8	ug/L						
2,4,5-Trichlorophenol	<8	8	ug/L						
Safrole	<8	8	ug/L						
2-Chloronaphthalene	<8	8	ug/L						
2-Nitroaniline	<8	8	ug/L						
1,4-Naphthoquinone	<8	8	ug/L						
Dimethylphthalate	<8	8	ug/L						
1,3-Dinitrobenzene	<8	8	ug/L						
1,2-Dinitrobenzene	<8	8	ug/L						
2,6-Dinitrotoluene	<8	8	ug/L						
Acenaphthylene	<8	8	ug/L						
3-Nitroaniline	<8	8	ug/L						
Acenaphthene	<8	8	ug/L						
2,4-Dinitrophenol	<8	8	ug/L						
4-Nitrophenol	<8	8	ug/L						
Dibenzofuran	<8	8	ug/L						
2,4-Dinitrotoluene	<8	8	ug/L						
2,3,4,6-Tetrachlorophenol	<8	8	ug/L						
Pentachlorobenzene	<8	8	ug/L						

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CERTIFICATE OF ANALYSIS

11J1462

Determination of Base/Neutral/Acid Extractable Compounds	Result	RL	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch 11J1125 - 3520C BNA Cont Liq - EPA 8270C									
Blank (11J1125-BLK1)				Prepared: 10/20/25 09:41 Analyzed: 10/29/25 09:48					
1-Naphthylamine	<8	8	ug/L						
2-Naphthylamine	<8	8	ug/L						
Diethyl Phthalate	<8	8	ug/L						
Fluorene	<8	8	ug/L						
4-Chlorophenyl Phenyl Ether	<8	8	ug/L						
4-Nitroaniline	<8	8	ug/L						
5-Nitro-o-toluidine	<8	8	ug/L						
4,6-Dinitro-2-methylphenol	<8	8	ug/L						
N-Nitrosodiphenylamine	<8	8	ug/L						
Diphenylamine	<8	8	ug/L						
Azobenzene	<8	8	ug/L						
Diallate	<8	8	ug/L						
1,3,5-Trinitrobenzene	<8	8	ug/L						
Phenacetin	<8	8	ug/L						
4-Bromophenyl Phenyl Ether	<8	8	ug/L						
4-Aminobiphenyl	<8	8	ug/L						
Pentachlorophenol	<8	8	ug/L						
Pronamide	<8	8	ug/L						
Pentachloronitrobenzene (PCNB)	<8	8	ug/L						
Phenanthrene	<8	8	ug/L						
Anthracene	<8	8	ug/L						
Di-n-butyl Phthalate	<8	8	ug/L						
Methapyrilene	<8	8	ug/L						
Fluoranthene	<8	8	ug/L						
Isodrin	<8	8	ug/L						
Chlorobenzilate	<8	8	ug/L						
Pyrene	<8	8	ug/L						
p-(Dimethylamino)azobenzene	<8	8	ug/L						
3,3-Dimethylbenzidine	<8	8	ug/L						
Butyl Benzyl Phthalate	<8	8	ug/L						
Benzo(a)anthracene	<8	8	ug/L						
Chrysene	<8	8	ug/L						
Bis(2-Ethylhexyl) Phthalate	<6	6	ug/L						
Kepone	<8	8	ug/L						
3,3'-Dichlorobenzidine	<8	8	ug/L						
2-Acetylaminofluorene	<8	8	ug/L						
Di-n-octyl Phthalate	<8	8	ug/L						
Benzo(b)Fluoranthene	<8	8	ug/L						
7,12-Dimethylbenz [a] anthracene	<8	8	ug/L						
Benzo(k)Fluoranthene	<8	8	ug/L						
Benzo(a)Pyrene	<8	8	ug/L						

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CERTIFICATE OF ANALYSIS

1IJ1462

Determination of Base/Neutral/Acid Extractable Compounds	Result	RL	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch 1IJ1125 - 3520C BNA Cont Liq - EPA 8270C									
Blank (1IJ1125-BLK1)				Prepared: 10/20/25 09:41 Analyzed: 10/29/25 09:48					
3-Methylcholanthrene	<8	8	ug/L						
Dibenzo(a,h)anthracene	<8	8	ug/L						
Indeno(1,2,3-cd)Pyrene	<8	8	ug/L						
Benzo(g,h,i)perylene	<8	8	ug/L						
Surrogate: 2-Fluorophenol	18.7		ug/L	20.2		92.2	10-159		
Surrogate: Phenol-d6	19.2		ug/L	19.8		97.0	10-162		
Surrogate: Nitrobenzene-d5	16.8		ug/L	19.5		86.3	17-154		
Surrogate: 2-Fluorobiphenyl	17.3		ug/L	19.4		89.3	15-150		
Surrogate: 2,4,6-Tribromophenol	20.3		ug/L	20.5		99.1	10-156		
Surrogate: Terphenyl-d14	12.1		ug/L	12.2		99.6	10-179		
LCS (1IJ1125-BS1)				Prepared: 10/20/25 09:41 Analyzed: 10/29/25 10:13					
N-Nitrosodimethylamine	<8	8	ug/L	12.0		50.9	12-122		
Methyl Methanesulfonate	<8	8	ug/L	12.0		59.6	49-110		
N-Nitrosodiethylamine	9.8	8	ug/L	12.0		81.6	19-139		
N-Nitrosomethylethylamine	8.9	8	ug/L	12.0		74.2	13-158		
Ethyl Methanesulfonate	9.9	8	ug/L	12.0		82.2	50-110		
Phenol	11.7	8	ug/L	12.0		97.3	15-130		
Bis(2-Chloroethyl) Ether	10.6	8	ug/L	12.0		88.8	28-128		
2-Chlorophenol	11.5	8	ug/L	12.0		95.9	12-155		
Benzyl Alcohol	8.5	8	ug/L	12.0		70.7	13-143		
2-Methylphenol (o-Cresol)	13.0	8	ug/L	12.0		108	37-125		
Bis[2-Chloroisopropyl]ether	10.9	8	ug/L	12.0		90.7	31-130		
n-Nitroso-di-n-propylamine	12.4	8	ug/L	12.0		103	38-128		
N-Nitrosopyrrolidine	10.6	8	ug/L	12.0		88.2	22-143		
Acetophenone	10.5	8	ug/L	12.0		87.2	52-120		
o-Toluidine	<8	8	ug/L	12.0		28.7	10-110		
(3 & 4)-Methylphenol	12.3	8	ug/L	12.0		103	35-129		
Hexachloroethane	8.6	8	ug/L	12.0		71.8	19-110		
Nitrobenzene	11.5	8	ug/L	12.0		95.9	26-148		
N-Nitrosopiperidine	10.0	8	ug/L	12.0		83.4	23-140		
Isophorone	12.0	8	ug/L	12.0		99.8	37-134		
2-Nitrophenol	12.0	8	ug/L	12.0		99.7	37-127		
2,4-Dimethylphenol	11.9	8	ug/L	12.0		99.5	36-131		
Bis (2-Chloroethoxy) Methane	11.7	8	ug/L	12.0		97.2	31-119		
2,4-Dichlorophenol	12.6	8	ug/L	12.0		105	32-148		
Naphthalene	10.7	8	ug/L	12.0		88.8	37-110		
4-Chloroaniline	<8	8	ug/L	12.0		18.8	10-110		
2,6-Dichlorophenol	11.4	8	ug/L	12.0		94.8	28-154		
Hexachloropropene	8.4	8	ug/L	12.0		69.7	10-110		
Hexachlorobutadiene	<8	8	ug/L	12.0		59.5	21-110		
N-Nitrosodi-n-butylamine	10.4	8	ug/L	12.0		86.6	24-135		
1,4-Phenylenediamine	<8	8	ug/L	12.0			10-103		Q3

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CERTIFICATE OF ANALYSIS

1IJ1462

Determination of Base/Neutral/Acid Extractable Compounds	Result	RL	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch 1IJ1125 - 3520C BNA Cont Liq - EPA 8270C									
LCS (1IJ1125-BS1)				Prepared: 10/20/25 09:41 Analyzed: 10/29/25 10:13					
4-Chloro-3-methylphenol	13.2	8	ug/L	12.0		110	32-146		
2-Methylnaphthalene	10.9	8	ug/L	12.0		90.8	36-113		
Isosafrole	10.1	8	ug/L	12.0		83.9	43-117		
1,2,4,5-Tetrachlorobenzene	8.9	8	ug/L	12.0		74.0	34-110		
Hexachlorocyclopentadiene	8.3	8	ug/L	12.0		68.8	10-110		
2,4,6-Trichlorophenol	12.4	8	ug/L	12.0		103	32-159		
2,4,5-Trichlorophenol	13.2	8	ug/L	12.0		110	35-164		
Safrole	10.4	8	ug/L	12.0		86.2	34-122		
2-Chloronaphthalene	10.9	8	ug/L	12.0		90.9	18-136		
2-Nitroaniline	12.9	8	ug/L	12.0		108	35-151		
1,4-Naphthoquinone	11.8	8	ug/L	12.0		98.2	32-188		
Dimethylphthalate	11.8	8	ug/L	12.0		98.8	39-147		
1,3-Dinitrobenzene	12.3	8	ug/L	12.0		102	30-163		
1,2-Dinitrobenzene	13.2	8	ug/L	12.0		110	31-159		
2,6-Dinitrotoluene	12.1	8	ug/L	12.0		101	42-144		
Acenaphthylene	11.2	8	ug/L	12.0		93.5	35-122		
3-Nitroaniline	<8	8	ug/L	12.0		60.8	10-135		
Acenaphthene	10.9	8	ug/L	12.0		91.2	37-128		
2,4-Dinitrophenol	16.1	8	ug/L	12.0		134	31-164		
4-Nitrophenol	14.4	8	ug/L	12.0		120	11-175		
Dibenzofuran	11.0	8	ug/L	12.0		91.8	36-132		
2,4-Dinitrotoluene	12.1	8	ug/L	12.0		101	45-142		
2,3,4,6-Tetrachlorophenol	14.4	8	ug/L	12.0		120	22-159		
Pentachlorobenzene	9.7	8	ug/L	12.0		80.8	45-125		
1-Naphthylamine	<8	8	ug/L	12.0			10-152		Q3
2-Naphthylamine	<8	8	ug/L	12.0			19-128		Q3
Diethyl Phthalate	12.7	8	ug/L	12.0		106	38-155		
Fluorene	11.5	8	ug/L	12.0		95.8	40-131		
4-Chlorophenyl Phenyl Ether	11.0	8	ug/L	12.0		91.3	36-130		
4-Nitroaniline	9.6	8	ug/L	12.0		80.1	10-142		
5-Nitro-o-toluidine	<8	8	ug/L	12.0		62.2	10-172		
4,6-Dinitro-2-methylphenol	13.5	8	ug/L	12.0		113	32-150		
N-Nitrosodiphenylamine	12.1	8	ug/L	12.0		101	10-154		
Diphenylamine	12.1	8	ug/L	12.0		101	10-166		
Azobenzene	12.2	8	ug/L	12.0		102	33-144		
Diallate	12.4	8	ug/L	12.0		103	47-152		
1,3,5-Trinitrobenzene	10.3	8	ug/L	12.0		85.6	51-151		
Phenacetin	11.4	8	ug/L	12.0		94.7	58-143		
4-Bromophenyl Phenyl Ether	11.7	8	ug/L	12.0		97.2	38-141		
4-Aminobiphenyl	<8	8	ug/L	12.0			10-178		Q3
Pentachlorophenol	15.4	8	ug/L	12.0		128	21-154		
Pronamide	10.6	8	ug/L	12.0		88.0	27-143		

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CERTIFICATE OF ANALYSIS

11J1462

Determination of Base/Neutral/Acid Extractable Compounds	Result	RL	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch 11J1125 - 3520C BNA Cont Liq - EPA 8270C									
LCS (11J1125-BS1)									
				Prepared: 10/20/25 09:41 Analyzed: 10/29/25 10:13					
Pentachloronitrobenzene (PCNB)	11.4	8	ug/L	12.0	95.4	51-163			
Phenanthrene	11.6	8	ug/L	12.0	97.0	42-141			
Anthracene	12.0	8	ug/L	12.0	100	43-136			
Di-n-butyl Phthalate	13.0	8	ug/L	12.0	108	44-158			
Methapyrilene	<8	8	ug/L	13.0	24.2	60-140			Q3
Fluoranthene	11.7	8	ug/L	12.0	97.2	44-145			
Isodrin	12.5	8	ug/L	12.0	104	54-126			
Chlorobenzilate	11.9	8	ug/L	12.0	99.4	25-164			
Pyrene	13.4	8	ug/L	12.0	112	37-155			
p-(Dimethylamino)azobenzene	10.7	8	ug/L	12.0	89.1	10-175			
Butyl Benzyl Phthalate	13.8	8	ug/L	12.0	115	35-163			
Benzo(a)anthracene	11.7	8	ug/L	12.0	97.2	40-142			
Chrysene	11.9	8	ug/L	12.0	99.1	45-142			
Bis(2-Ethylhexyl) Phthalate	14.7	6	ug/L	12.0	122	32-180			
Kepone	10.0	8	ug/L	12.0	83.3	10-147			
2-Acetylaminofluorene	12.4	8	ug/L	12.0	104	27-177			
Di-n-octyl Phthalate	14.3	8	ug/L	12.0	119	32-181			
Benzo(b)Fluoranthene	11.8	8	ug/L	12.0	98.8	40-160			
7,12-Dimethylbenz [a] anthracene	11.2	8	ug/L	12.0	93.8	46-128			
Benzo(k)Fluoranthene	12.1	8	ug/L	12.0	101	42-159			
Benzo(a)Pyrene	11.7	8	ug/L	12.0	97.8	45-143			
3-Methylcholanthrene	10.4	8	ug/L	12.0	86.2	10-164			
Dibenzo(a,h)anthracene	10.5	8	ug/L	12.0	87.2	30-159			
Indeno(1,2,3-cd)Pyrene	10.6	8	ug/L	12.0	88.0	31-156			
Benzo(g,h,i)perylene	10.5	8	ug/L	12.0	87.2	26-158			
Surrogate: 2-Fluorophenol	19.6		ug/L	20.2	96.9	10-159			
Surrogate: Phenol-d6	19.9		ug/L	19.8	100	10-162			
Surrogate: Nitrobenzene-d5	18.8		ug/L	19.5	96.3	34-138			
Surrogate: 2-Fluorobiphenyl	17.4		ug/L	19.4	89.9	42-129			
Surrogate: 2,4,6-Tribromophenol	20.9		ug/L	20.5	102	10-156			
Surrogate: Terphenyl-d14	13.4		ug/L	12.2	110	46-154			
LCS Dup (11J1125-BSD1)									
				Prepared: 10/20/25 09:41 Analyzed: 10/29/25 10:38					
N-Nitrosodimethylamine	8.0	8	ug/L	12.0	67.1	12-122	27.4	27	R1
Methyl Methanesulfonate	8.3	8	ug/L	12.0	69.4	49-110	15.2	16	
N-Nitrosodiethylamine	9.9	8	ug/L	12.0	82.2	19-139	0.712	30	
N-Nitrosomethylethylamine	9.4	8	ug/L	12.0	78.5	13-158	5.56	30	
Ethyl Methanesulfonate	10.2	8	ug/L	12.0	84.8	50-110	3.19	17	
Phenol	11.9	8	ug/L	12.0	99.2	15-130	1.95	30	
Bis(2-Chloroethyl) Ether	10.9	8	ug/L	12.0	90.9	28-128	2.41	24	
2-Chlorophenol	11.7	8	ug/L	12.0	97.7	12-155	1.81	30	

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CERTIFICATE OF ANALYSIS

1IJ1462

Determination of Base/Neutral/Acid Extractable Compounds	Result	RL	Units	Spike Level	Source Result	%REC Limits	RPD RPD	RPD Limit	Notes
Batch 1IJ1125 - 3520C BNA Cont Liq - EPA 8270C									
LCS Dup (1IJ1125-BSD1)				Prepared: 10/20/25 09:41 Analyzed: 10/29/25 10:38					
Benzyl Alcohol	10.6	8	ug/L	12.0	88.1	13-143	21.9	30	
2-Methylphenol (o-Cresol)	12.1	8	ug/L	12.0	101	37-125	7.50	30	
Bis[2-Chloroisopropyl]ether	11.0	8	ug/L	12.0	91.3	31-130	0.733	26	
n-Nitroso-di-n-propylamine	11.5	8	ug/L	12.0	96.0	38-128	6.95	21	
N-Nitrosopyrrolidine	9.1	8	ug/L	12.0	76.1	22-143	14.8	30	
Acetophenone	10.7	8	ug/L	12.0	88.9	52-120	1.89	22	
o-Toluidine	<8	8	ug/L	12.0		10-110		30	Q3
(3 & 4)-Methylphenol	11.9	8	ug/L	12.0	99.1	35-129	3.47	30	
Hexachloroethane	9.4	8	ug/L	12.0	78.3	19-110	8.66	30	
Nitrobenzene	11.3	8	ug/L	12.0	94.2	26-148	1.75	30	
N-Nitrosopiperidine	9.0	8	ug/L	12.0	74.7	23-140	11.1	30	
Isophorone	12.7	8	ug/L	12.0	106	37-134	6.00	26	
2-Nitrophenol	11.5	8	ug/L	12.0	95.8	37-127	3.92	30	
2,4-Dimethylphenol	11.6	8	ug/L	12.0	96.8	36-131	2.72	30	
Bis (2-Chloroethoxy) Methane	11.5	8	ug/L	12.0	95.8	31-119	1.47	30	
2,4-Dichlorophenol	12.3	8	ug/L	12.0	103	32-148	2.01	30	
Naphthalene	10.4	8	ug/L	12.0	86.7	37-110	2.47	30	
4-Chloroaniline	<8	8	ug/L	12.0		10-110		30	Q3
2,6-Dichlorophenol	11.2	8	ug/L	12.0	93.2	28-154	1.60	30	
Hexachloropropene	<8	8	ug/L	12.0	66.0	10-110	5.41	30	
Hexachlorobutadiene	8.2	8	ug/L	12.0	68.3	21-110	13.8	30	
N-Nitrosodi-n-butylamine	<8	8	ug/L	12.0	45.5	24-135	62.2	30	R1
1,4-Phenylenediamine	<8	8	ug/L	12.0		10-103		30	Q3
4-Chloro-3-methylphenol	12.8	8	ug/L	12.0	107	32-146	3.00	30	
2-Methylnaphthalene	11.1	8	ug/L	12.0	92.2	36-113	1.55	26	
Isosafrole	10.0	8	ug/L	12.0	83.6	43-117	0.398	29	
1,2,4,5-Tetrachlorobenzene	8.6	8	ug/L	12.0	71.8	34-110	3.09	30	
Hexachlorocyclopentadiene	8.4	8	ug/L	12.0	70.1	10-110	1.80	30	
2,4,6-Trichlorophenol	12.3	8	ug/L	12.0	103	32-159	0.647	30	
2,4,5-Trichlorophenol	12.5	8	ug/L	12.0	104	35-164	5.51	30	
Safrole	10.0	8	ug/L	12.0	83.5	34-122	3.24	30	
2-Chloronaphthalene	10.9	8	ug/L	12.0	90.8	18-136	0.183	30	
2-Nitroaniline	12.0	8	ug/L	12.0	100	35-151	7.30	21	
1,4-Naphthoquinone	10.9	8	ug/L	12.0	90.8	32-188	7.84	30	
Dimethylphthalate	11.6	8	ug/L	12.0	96.3	39-147	2.48	22	
1,3-Dinitrobenzene	12.3	8	ug/L	12.0	102	30-163	0.163	26	
1,2-Dinitrobenzene	12.9	8	ug/L	12.0	108	31-159	2.14	26	
2,6-Dinitrotoluene	11.5	8	ug/L	12.0	96.0	42-144	4.91	20	
Acenaphthylene	10.9	8	ug/L	12.0	90.6	35-122	3.17	30	
3-Nitroaniline	<8	8	ug/L	12.0	25.1	10-135	83.1	30	R1
Acenaphthene	10.7	8	ug/L	12.0	89.4	37-128	1.94	30	
2,4-Dinitrophenol	15.7	8	ug/L	12.0	131	31-164	2.83	30	

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Page 47 of 58



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CERTIFICATE OF ANALYSIS

1IJ1462

Determination of Base/Neutral/Acid Extractable Compounds	Result	RL	Units	Spike Level	Source Result	%REC Limits	RPD RPD	RPD Limit	Notes
Batch 1IJ1125 - 3520C BNA Cont Liq - EPA 8270C									
LCS Dup (1IJ1125-BSD1)				Prepared: 10/20/25 09:41 Analyzed: 10/29/25 10:38					
4-Nitrophenol	13.5	8	ug/L	12.0		112	11-175	6.88	30
Dibenzofuran	10.8	8	ug/L	12.0		90.0	36-132	2.02	30
2,4-Dinitrotoluene	11.6	8	ug/L	12.0		97.0	45-142	3.96	20
2,3,4,6-Tetrachlorophenol	14.5	8	ug/L	12.0		121	22-159	1.18	30
Pentachlorobenzene	9.2	8	ug/L	12.0		76.9	45-125	4.86	30
1-Naphthylamine	<8	8	ug/L	12.0			10-152		30 Q3
2-Naphthylamine	<8	8	ug/L	12.0			19-128		30 Q3
Diethyl Phthalate	12.4	8	ug/L	12.0		103	38-155	2.63	30
Fluorene	11.0	8	ug/L	12.0		91.6	40-131	4.54	30
4-Chlorophenyl Phenyl Ether	10.8	8	ug/L	12.0		89.9	36-130	1.56	22
4-Nitroaniline	<8	8	ug/L	12.0		46.4	10-142	53.2	30 R1
5-Nitro-o-toluidine	<8	8	ug/L	12.0		34.6	10-172	57.1	30 R1
4,6-Dinitro-2-methylphenol	12.9	8	ug/L	12.0		108	32-150	4.84	30
N-Nitrosodiphenylamine	11.0	8	ug/L	12.0		91.8	10-154	9.34	30
Diphenylamine	11.0	8	ug/L	12.0		91.8	10-166	9.34	30
Azobenzene	12.0	8	ug/L	12.0		100	33-144	1.49	27
Diallate	11.3	8	ug/L	12.0		94.5	47-152	8.61	30
1,3,5-Trinitrobenzene	9.7	8	ug/L	12.0		80.8	51-151	5.81	30
Phenacetin	10.2	8	ug/L	12.0		85.2	58-143	10.5	24
4-Bromophenyl Phenyl Ether	11.3	8	ug/L	12.0		94.5	38-141	2.78	17
4-Aminobiphenyl	<8	8	ug/L	12.0			10-178		30 Q3
Pentachlorophenol	15.3	8	ug/L	12.0		127	21-154	0.652	30
Pronamide	<8	8	ug/L	12.0			27-143		30 Q3
Pentachloronitrobenzene (PCNB)	10.9	8	ug/L	12.0		91.2	51-163	4.56	30
Phenanthrene	11.2	8	ug/L	12.0		93.2	42-141	3.94	30
Anthracene	11.4	8	ug/L	12.0		95.1	43-136	5.29	30
Di-n-butyl Phthalate	12.2	8	ug/L	12.0		101	44-158	6.84	23
Methapyrilene	<8	8	ug/L	13.0		12.6	60-140	62.8	30 Q3
Fluoranthene	10.8	8	ug/L	12.0		89.7	44-145	8.03	26
Isodrin	11.6	8	ug/L	12.0		96.4	54-126	7.65	30
Chlorobenzilate	10.6	8	ug/L	12.0		88.2	25-164	12.0	30
Pyrene	13.0	8	ug/L	12.0		109	37-155	2.87	24
p-(Dimethylamino)azobenzene	<8	8	ug/L	12.0		61.1	10-175	37.3	30 R1
Butyl Benzyl Phthalate	13.2	8	ug/L	12.0		110	35-163	4.96	21
Benzo(a)anthracene	11.0	8	ug/L	12.0		91.3	40-142	6.27	20
Chrysene	11.1	8	ug/L	12.0		92.6	45-142	6.78	30
Bis(2-Ethylhexyl) Phthalate	15.9	6	ug/L	12.0		132	32-180	7.86	30
Kepone	9.6	8	ug/L	12.0		80.3	10-147	3.67	30
2-Acetylaminofluorene	11.5	8	ug/L	12.0		96.1	27-177	7.43	30
Di-n-octyl Phthalate	13.9	8	ug/L	12.0		116	32-181	2.77	16
Benzo(b)Fluoranthene	10.6	8	ug/L	12.0		88.8	40-160	10.7	24

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Page 48 of 58



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CERTIFICATE OF ANALYSIS

1IJ1462

Determination of Base/Neutral/Acid Extractable Compounds	Result	RL	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch 1IJ1125 - 3520C BNA Cont Liq - EPA 8270C									
LCS Dup (1IJ1125-BSD1)				Prepared: 10/20/25 09:41 Analyzed: 10/29/25 10:38					
7,12-Dimethylbenz [a] anthracene	10.9	8	ug/L	12.0		91.2 46-128	2.79	30	
Benzo(k)Fluoranthene	10.8	8	ug/L	12.0		90.2 42-159	11.1	20	
Benzo(a)Pyrene	10.2	8	ug/L	12.0		85.2 45-143	13.8	30	
3-Methylcholanthrene	8.9	8	ug/L	12.0		73.8 10-164	15.5	30	
Dibenzo(a,h)anthracene	8.3	8	ug/L	12.0		69.2 30-159	22.9	26	
Indeno(1,2,3-cd)Pyrene	8.4	8	ug/L	12.0		69.8 31-156	23.0	30	
Benzo(g,h,i)perylene	8.2	8	ug/L	12.0		68.5 26-158	24.0	30	
Surrogate: 2-Fluorophenol	18.8		ug/L	20.2		92.8 10-159			
Surrogate: Phenol-d6	18.6		ug/L	19.8		94.2 10-162			
Surrogate: Nitrobenzene-d5	18.4		ug/L	19.5		94.6 34-138			
Surrogate: 2-Fluorobiphenyl	16.4		ug/L	19.4		84.7 42-129			
Surrogate: 2,4,6-Tribromophenol	19.5		ug/L	20.5		95.1 10-156			
Surrogate: Terphenyl-dl4	12.7		ug/L	12.2		104 46-154			

Determination of Organophosphorus Insecticides	Result	RL	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch 1IJ1063 - 3510C NP/OC Sep Fnl - EPA 8141									
Blank (1IJ1063-BLK1)				Prepared: 10/17/25 12:04 Analyzed: 10/27/25 11:07					
O,O,O-Triethyl phosphorothioate	<0.4	0.4	ug/L						
Thionazin	<0.4	0.4	ug/L						
Phorate	<0.4	0.4	ug/L						
Dimethoate	<0.4	0.4	ug/L						
Disulfoton	<0.4	0.4	ug/L						
Methyl Parathion	<0.4	0.4	ug/L						
Parathion	<0.4	0.4	ug/L						
Famphur	<0.4	0.4	ug/L						
Surrogate: 2-Nitro-m-xylene	9.00		ug/L	13.9		64.6 32-110			
LCS (1IJ1063-BS1)				Prepared: 10/17/25 12:04 Analyzed: 10/27/25 14:49					
O,O,O-Triethyl phosphorothioate	3.16	0.4	ug/L	4.00		79.1 31-156			
Thionazin	3.34	0.4	ug/L	4.00		83.5 60-128			
Phorate	2.96	0.4	ug/L	4.00		74.0 33-143			
Dimethoate	4.04	0.4	ug/L	4.00		101 60-172			
Disulfoton	2.54	0.4	ug/L	4.00		63.5 51-134			
Methyl Parathion	3.14	0.4	ug/L	4.00		78.6 65-121			
Parathion	2.97	0.4	ug/L	4.00		74.2 60-113			
Famphur	3.14	0.4	ug/L	4.00		78.6 65-133			
Surrogate: 2-Nitro-m-xylene	10.0		ug/L	13.9		72.2 32-110			



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CERTIFICATE OF ANALYSIS

11J1462

Determination of Organophosphorus Insecticides	Result	RL	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch 11J1063 - 3510C NP/OC Sep Fnl - EPA 8141									
LCS Dup (11J1063-BSD1)				Prepared: 10/17/25 12:04 Analyzed: 10/27/25 15:33					
O,O,O-Triethyl phosphorothioate	3.41	0.4	ug/L	4.00		85.2 31-156	7.45	30	
Thionazin	3.68	0.4	ug/L	4.00		91.9 60-128	9.55	30	
Phorate	3.30	0.4	ug/L	4.00		82.4 33-143	10.7	30	
Dimethoate	4.91	0.4	ug/L	4.00		123 60-172	19.3	30	
Disulfoton	2.74	0.4	ug/L	4.00		68.5 51-134	7.58	30	
Methyl Parathion	3.54	0.4	ug/L	4.00		88.4 65-121	11.7	30	
Parathion	3.29	0.4	ug/L	4.00		82.2 60-113	10.2	26	
Famphur	3.54	0.4	ug/L	4.00		88.5 65-133	11.8	30	

Surrogate: 2-Nitro-m-xylene 10.8 ug/L 13.9 77.9 32-110

Reference (11J1063-SRM1)				Prepared: 10/17/25 12:04 Analyzed: 10/27/25 16:18					
O,O,O-Triethyl phosphorothioate	3.90	0.4	ug/L	4.00		97.5 80-120			
Thionazin	3.81	0.4	ug/L	4.00		95.2 80-120			
Phorate	3.83	0.4	ug/L	4.00		95.8 80-120			
Dimethoate	5.40	0.4	ug/L	4.00		135 80-120			S
Disulfoton	3.63	0.4	ug/L	4.00		90.8 80-120			
Methyl Parathion	4.08	0.4	ug/L	4.00		102 80-120			
Parathion	3.68	0.4	ug/L	4.00		91.9 80-120			
Famphur	3.20	0.4	ug/L	4.00		80.0 80-120			

Surrogate: 2-Nitro-m-xylene 12.3 ug/L 13.9 88.7 32-110

Determination of Chlorinated Phenoxy Herbicides	Result	RL	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch 11J1064 - EPA 8151A - EPA 8151A

Blank (11J1064-BLK1)				Prepared: 10/17/25 12:11 Analyzed: 10/27/25 11:57					
2,4-D	<2.0	2.0	ug/L						
2,4,5-TP (Silvex)	<0.5	0.5	ug/L						
2,4,5-T	<0.5	0.5	ug/L						
Dinoseb	<0.5	0.5	ug/L						

Surrogate: 2,5-Dichlorobenzoic Acid 1.70 ug/L 1.81 93.8 49-174

LCS (11J1064-BS1)				Prepared: 10/17/25 12:11 Analyzed: 10/27/25 14:28					
2,4-D	<2.0	2.0	ug/L	1.00		71.4 38-135			
2,4,5-TP (Silvex)	0.50	0.5	ug/L	0.500		100 50-137			
2,4,5-T	<0.5	0.5	ug/L	0.500		95.9 49-157			
Dinoseb	1.11	0.5	ug/L	1.00		111 10-129			

Surrogate: 2,5-Dichlorobenzoic Acid 1.84 ug/L 1.81 102 49-174

LCS Dup (11J1064-BSD1)				Prepared: 10/17/25 12:11 Analyzed: 10/27/25 14:58					
2,4-D	<2.0	2.0	ug/L	1.00		86.7 38-135	19.4	30	



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1IJ1462

Determination of Chlorinated Phenoxy Herbicides	Result	RL	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch 1IJ1064 - EPA 8151A - EPA 8151A									

LCS Dup (1IJ1064-BS1)				Prepared: 10/17/25 12:11 Analyzed: 10/27/25 14:58					
2,4,5-TP (Silvex)	0.56	0.5	ug/L	0.500		112 50-137	10.8	30	
2,4,5-T	0.54	0.5	ug/L	0.500		109 49-157	12.4	30	
Dinoseb	1.28	0.5	ug/L	1.00		128 10-129	13.9	30	
Surrogate: 2,5-Dichlorobenzoic Acid	1.87		ug/L	1.81		103 49-174			

Determination of Organochlorine Insecticides & Metabolites	Result	RL	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch 1IJ1062 - 3510C NP/OC Sep Fnl - EPA 8081A									

Blank (1IJ1062-BLK1)				Prepared: 10/17/25 12:02 Analyzed: 10/22/25 16:48					
Alpha-BHC	<0.05	0.05	ug/L						
Gamma-BHC [Lindane]	<0.05	0.05	ug/L						
Beta-BHC	<0.05	0.05	ug/L						
Heptachlor	<0.05	0.05	ug/L						
Delta-BHC	<0.05	0.05	ug/L						
Aldrin	<0.05	0.05	ug/L						
Heptachlor Epoxide	<0.05	0.05	ug/L						
Endosulfan I	<0.05	0.05	ug/L						
4,4'-DDE	<0.05	0.05	ug/L						
Dieldrin	<0.05	0.05	ug/L						
Endrin	<0.05	0.05	ug/L						
4,4'-DDD	<0.05	0.05	ug/L						
Endosulfan II	<0.05	0.05	ug/L						
4,4'-DDT	<0.05	0.05	ug/L						
Endrin Aldehyde	<0.05	0.05	ug/L						
Endosulfan Sulfate	<0.05	0.05	ug/L						
Methoxychlor	<0.05	0.05	ug/L						
Chlordane	<0.10	0.10	ug/L						
Toxaphene	<0.20	0.20	ug/L						
Hexachlorobenzene	<0.05	0.05	ug/L						
Surrogate: Tetrachloro-m-xylene	0.370		ug/L	0.600		61.7 45-111			

LCS (1IJ1062-BS1)				Prepared: 10/17/25 12:02 Analyzed: 10/22/25 17:59					
Alpha-BHC	0.231	0.05	ug/L	0.250		92.5 60-125			
Gamma-BHC [Lindane]	0.240	0.05	ug/L	0.250		96.0 60-130			
Beta-BHC	0.250	0.05	ug/L	0.250		100 63-118			
Heptachlor	0.493	0.05	ug/L	0.250		197 67-130			Q2
Delta-BHC	0.230	0.05	ug/L	0.250		92.0 65-143			
Aldrin	0.203	0.05	ug/L	0.250		81.3 59-114			
Heptachlor Epoxide	0.241	0.05	ug/L	0.250		96.3 56-129			
Endosulfan I	0.256	0.05	ug/L	0.250		102 64-134			



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CERTIFICATE OF ANALYSIS

1IJ1462

Determination of Organochlorine Insecticides & Metabolites	Result	RL	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch 1IJ1062 - 3510C NP/OC Sep Fnl - EPA 8081A									
LCS (1IJ1062-BS1)									
				Prepared: 10/17/25 12:02 Analyzed: 10/22/25 17:59					
4,4'-DDE	0.249	0.05	ug/L	0.250		99.4	66-128		
Dieldrin	0.255	0.05	ug/L	0.250		102	62-121		
Endrin	0.272	0.05	ug/L	0.250		109	27-177		
4,4'-DDD	0.253	0.05	ug/L	0.250		101	64-131		
Endosulfan II	0.257	0.05	ug/L	0.250		103	68-130		
4,4'-DDT	0.236	0.05	ug/L	0.250		94.6	64-145		
Endrin Aldehyde	0.233	0.05	ug/L	0.250		93.1	50-135		
Endosulfan Sulfate	0.251	0.05	ug/L	0.250		100	72-121		
Methoxychlor	0.240	0.05	ug/L	0.250		96.1	60-157		
Surrogate: Tetrachloro-m-xylene	0.382		ug/L	0.600		63.7	45-111		
LCS Dup (1IJ1062-BSD1)									
				Prepared: 10/17/25 12:02 Analyzed: 10/22/25 18:13					
Alpha-BHC	0.202	0.05	ug/L	0.250		80.9	60-125	13.3	30
Gamma-BHC [Lindane]	0.212	0.05	ug/L	0.250		84.8	60-130	12.4	30
Beta-BHC	0.223	0.05	ug/L	0.250		89.0	63-118	11.7	30
Heptachlor	0.452	0.05	ug/L	0.250		181	67-130	8.73	30 Q2
Delta-BHC	0.199	0.05	ug/L	0.250		79.7	65-143	14.3	30
Aldrin	0.182	0.05	ug/L	0.250		72.8	59-114	11.0	30
Heptachlor Epoxide	0.212	0.05	ug/L	0.250		84.9	56-129	12.6	30
Endosulfan I	0.223	0.05	ug/L	0.250		89.1	64-134	13.8	30
4,4'-DDE	0.221	0.05	ug/L	0.250		88.4	66-128	11.8	30
Dieldrin	0.223	0.05	ug/L	0.250		89.1	62-121	13.7	30
Endrin	0.235	0.05	ug/L	0.250		94.1	27-177	14.3	30
4,4'-DDD	0.222	0.05	ug/L	0.250		88.6	64-131	13.1	30
Endosulfan II	0.223	0.05	ug/L	0.250		89.1	68-130	14.3	30
4,4'-DDT	0.206	0.05	ug/L	0.250		82.5	64-145	13.7	30
Endrin Aldehyde	0.202	0.05	ug/L	0.250		80.8	50-135	14.2	30
Endosulfan Sulfate	0.225	0.05	ug/L	0.250		89.9	72-121	11.1	30
Methoxychlor	0.212	0.05	ug/L	0.250		84.8	60-157	12.5	30
Surrogate: Tetrachloro-m-xylene	0.360		ug/L	0.600		59.9	45-111		
Reference (1IJ1062-SRM1)									
				Prepared: 10/17/25 12:02 Analyzed: 10/22/25 18:27					
Alpha-BHC	0.261	0.05	ug/L	0.250		105	80-120		
Gamma-BHC [Lindane]	0.266	0.05	ug/L	0.250		106	80-120		
Beta-BHC	0.262	0.05	ug/L	0.250		105	80-120		
Heptachlor	0.273	0.05	ug/L	0.250		109	80-120		
Delta-BHC	0.248	0.05	ug/L	0.250		99.3	80-120		
Aldrin	0.257	0.05	ug/L	0.250		103	80-120		
Heptachlor Epoxide	0.245	0.05	ug/L	0.250		97.9	80-120		
Endosulfan I	0.259	0.05	ug/L	0.250		103	80-120		
4,4'-DDE	0.263	0.05	ug/L	0.250		105	80-120		
Dieldrin	0.253	0.05	ug/L	0.250		101	80-120		

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11J1462

Determination of Organochlorine Insecticides & Metabolites	Result	RL	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch 11J1062 - 3510C NP/OC Sep Fnl - EPA 8081A									
Reference (11J1062-SRM1)				Prepared: 10/17/25 12:02 Analyzed: 10/22/25 18:27					
Endrin	0.252	0.05	ug/L	0.250		101	80-120		
4,4'-DDD	0.275	0.05	ug/L	0.250		110	80-120		
Endosulfan II	0.250	0.05	ug/L	0.250		99.9	80-120		
4,4'-DDT	0.210	0.05	ug/L	0.250		83.9	80-120		
Endrin Aldehyde	0.263	0.05	ug/L	0.250		105	80-120		
Endosulfan Sulfate	0.249	0.05	ug/L	0.250		99.6	80-120		
Methoxychlor	0.204	0.05	ug/L	0.250		81.5	80-120		
Hexachlorobenzene	0.246	0.05	ug/L	0.250		98.5	80-120		
Surrogate: Tetrachloro-m-xylene	0.542		ug/L	0.600		90.4	45-111		
Determination of Polychlorinated Biphenyls (PCB)	Result	RL	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch 11J1061 - 3510C NP/OC Sep Fnl - EPA 8082A									
Blank (11J1061-BLK1)				Prepared: 10/17/25 12:00 Analyzed: 10/22/25 16:48					
Arochlor 1016	<0.20	0.20	ug/L						
Arochlor 1221	<0.20	0.20	ug/L						
Arochlor 1232	<0.20	0.20	ug/L						
Arochlor 1242	<0.20	0.20	ug/L						
Arochlor 1248	<0.20	0.20	ug/L						
Arochlor 1254	<0.20	0.20	ug/L						
Arochlor 1260	<0.20	0.20	ug/L						
Surrogate: Tetrachloro-m-xylene	0.513		ug/L	0.600		85.6	50-116		
Surrogate: Decachlorobiphenyl	0.635		ug/L	0.600		106	38-122		
LCS (11J1061-BS1)				Prepared: 10/17/25 12:00 Analyzed: 10/22/25 18:41					
Arochlor 1016	2.753	0.20	ug/L	2.60		106	54-124		
Arochlor 1260	2.668	0.20	ug/L	2.60		103	66-138		
Surrogate: Tetrachloro-m-xylene	0.519		ug/L	0.600		86.5	50-116		
Surrogate: Decachlorobiphenyl	0.557		ug/L	0.600		92.8	38-122		
LCS Dup (11J1061-BSD1)				Prepared: 10/17/25 12:00 Analyzed: 10/22/25 18:55					
Arochlor 1016	2.855	0.20	ug/L	2.60		110	54-124	3.63	20
Arochlor 1260	2.927	0.20	ug/L	2.60		113	66-138	9.25	24
Surrogate: Tetrachloro-m-xylene	0.536		ug/L	0.600		89.3	50-116		
Surrogate: Decachlorobiphenyl	0.620		ug/L	0.600		103	38-122		
Reference (11J1061-SRM1)				Prepared: 10/17/25 12:00 Analyzed: 10/22/25 19:09					
Arochlor 1016	3.011	0.20	ug/L	2.60		116	80-120		
Arochlor 1260	3.064	0.20	ug/L	2.60		118	80-120		

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Determination of Polychlorinated Biphenyls (PCB)	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1IJ1061 - 3510C NP/OC Sep Fnl - EPA 8082A										
Reference (1IJ1061-SRM1)				Prepared: 10/17/25 12:00 Analyzed: 10/22/25 19:09						
Surrogate: Tetrachloro-m-xylene	0.564		ug/L	0.600		94.0	50-116			
Surrogate: Decachlorobiphenyl	0.576		ug/L	0.600		96.0	38-122			
Determination of Conventional Chemistry Parameters	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1IJ1132 - Wet Chem Preparation - EPA 376.2										
Blank (1IJ1132-BLK1)				Prepared: 10/20/25 10:39 Analyzed: 10/20/25 16:48						
Sulfide, total	<0.10	0.10	mg/L							
LCS (1IJ1132-BS1)				Prepared: 10/20/25 10:39 Analyzed: 10/20/25 16:48						
Sulfide, total	<0.10	0.10	mg/L	0.061		115	56-118			
Matrix Spike (1IJ1132-MS1)				Source: 1IJ1239-01 Prepared: 10/20/25 10:39 Analyzed: 10/20/25 16:48						
Sulfide, total	<0.10	0.10	mg/L	0.061	ND	144	50-150			
Matrix Spike Dup (1IJ1132-MSD1)				Source: 1IJ1239-01 Prepared: 10/20/25 10:39 Analyzed: 10/20/25 16:48						
Sulfide, total	0.114	0.10	mg/L	0.061	ND	186	50-150	25.5	30	M1
Batch 1IJ1215 - Wet Chem Preparation - EPA 9014										
Blank (1IJ1215-BLK1)				Prepared & Analyzed: 10/21/25 13:07						
Cyanide, total	<0.010	0.010	mg/L							
LCS (1IJ1215-BS1)				Prepared & Analyzed: 10/21/25 13:07						
Cyanide, total	0.0705	0.020	mg/L	0.0600		118	64-125			
Matrix Spike (1IJ1215-MS1)				Source: 1IJ1387-04 Prepared: 10/21/25 13:07 Analyzed: 10/30/25 10:39						
Cyanide, total	0.0341	0.010	mg/L	0.0600	ND	56.8	64-134			M2
Matrix Spike Dup (1IJ1215-MSD1)				Source: 1IJ1387-04 Prepared: 10/21/25 13:07 Analyzed: 10/30/25 10:39						
Cyanide, total	0.0382	0.010	mg/L	0.0600	ND	63.6	64-134	11.3	25	M2
Determination of Total Metals	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1IJ1122 - EPA 3005A Total Recoverable Metals - EPA 6020A										
Blank (1IJ1122-BLK1)				Prepared: 10/20/25 09:25 Analyzed: 10/20/25 20:27						
Antimony	<0.0010	0.0010	mg/L							
Arsenic	<0.0020	0.0020	mg/L							
Barium	<0.0010	0.0010	mg/L							
Beryllium	<0.0005	0.0005	mg/L							
Cadmium	<0.0002	0.0002	mg/L							
Chromium	<0.0010	0.0010	mg/L							B
Cobalt	<0.0005	0.0005	mg/L							
Copper	<0.0050	0.0050	mg/L							

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1IJ1462

Determination of Total Metals	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1IJ1122 - EPA 3005A Total Recoverable Metals - EPA 6020A										
Blank (1IJ1122-BLK1)			Prepared: 10/20/25 09:25 Analyzed: 10/20/25 20:27							
Lead	<0.0010	0.0010	mg/L							
Nickel	<0.0050	0.0050	mg/L							
Selenium	<0.0020	0.0020	mg/L							
Silver	<0.0050	0.0050	mg/L							
Thallium	<0.0005	0.0005	mg/L							
Tin	<0.0050	0.0050	mg/L							
Vanadium	<0.0020	0.0020	mg/L							
Zinc	<0.0050	0.0050	mg/L							
LCS (1IJ1122-BS1)			Prepared: 10/20/25 09:25 Analyzed: 10/20/25 20:35							
Antimony	0.110	0.0010	mg/L	0.100		110	80-120			
Arsenic	0.0984	0.0020	mg/L	0.100		98.4	80-120			
Barium	0.107	0.0010	mg/L	0.100		107	80-120			
Beryllium	0.0976	0.0005	mg/L	0.100		97.6	80-120			
Cadmium	0.100	0.0002	mg/L	0.100		100	80-120			
Chromium	0.118	0.0010	mg/L	0.100		118	80-120			
Cobalt	0.110	0.0005	mg/L	0.100		110	80-120			
Copper	0.102	0.0050	mg/L	0.100		102	80-120			
Lead	0.103	0.0010	mg/L	0.100		103	80-120			
Nickel	0.0980	0.0050	mg/L	0.100		98.0	80-120			
Selenium	0.0977	0.0020	mg/L	0.100		97.7	80-120			
Silver	0.106	0.0050	mg/L	0.100		106	80-120			
Thallium	0.106	0.0005	mg/L	0.100		106	80-120			
Tin	0.109	0.0050	mg/L	0.100		109	80-120			
Vanadium	0.117	0.0020	mg/L	0.100		117	80-120			
Zinc	0.106	0.0050	mg/L	0.100		106	80-120			
Matrix Spike (1IJ1122-MS1)			Source: 1IJ1462-01	Prepared: 10/20/25 09:25 Analyzed: 10/20/25 20:43						
Antimony	0.115	0.0010	mg/L	0.100	0.0008	114	75-125			
Arsenic	0.105	0.0020	mg/L	0.100	ND	105	75-125			
Barium	0.526	0.0010	mg/L	0.100	0.354	172	75-125			M6
Beryllium	0.101	0.0005	mg/L	0.100	ND	101	75-125			
Cadmium	0.101	0.0002	mg/L	0.100	ND	101	75-125			
Chromium	0.110	0.0010	mg/L	0.100	0.0010	109	75-125			
Cobalt	0.110	0.0005	mg/L	0.100	0.0001	109	75-125			
Copper	0.0985	0.0050	mg/L	0.100	ND	98.5	75-125			
Lead	0.105	0.0010	mg/L	0.100	ND	105	75-125			
Nickel	0.0974	0.0050	mg/L	0.100	0.0005	96.9	75-125			
Selenium	0.1037	0.0020	mg/L	0.100	ND	104	75-125			
Silver	0.107	0.0050	mg/L	0.100	ND	107	75-125			
Thallium	0.109	0.0005	mg/L	0.100	ND	109	75-125			
Tin	0.111	0.0050	mg/L	0.100	ND	111	75-125			
Vanadium	0.119	0.0020	mg/L	0.100	ND	119	75-125			
Zinc	0.104	0.0050	mg/L	0.100	ND	104	75-125			
Matrix Spike Dup (1IJ1122-MSD1)			Source: 1IJ1462-01	Prepared: 10/20/25 09:25 Analyzed: 10/20/25 20:45						

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1IJ1462

Determination of Total Metals	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1IJ1122 - EPA 3005A Total Recoverable Metals - EPA 6020A										
Matrix Spike Dup (1IJ1122-MSD1) Source: 1IJ1462-01 Prepared: 10/20/25 09:25 Analyzed: 10/20/25 20:45										
Antimony	0.118	0.0010	mg/L	0.100	0.0008	117	75-125	2.21	20	
Arsenic	0.104	0.0020	mg/L	0.100	ND	104	75-125	0.170	20	
Barium	0.527	0.0010	mg/L	0.100	0.354	172	75-125	0.172	20	M6
Beryllium	0.102	0.0005	mg/L	0.100	ND	102	75-125	1.27	20	
Cadmium	0.101	0.0002	mg/L	0.100	ND	101	75-125	0.440	20	
Chromium	0.112	0.0010	mg/L	0.100	0.0010	111	75-125	1.40	20	
Cobalt	0.112	0.0005	mg/L	0.100	0.0001	112	75-125	2.32	20	
Copper	0.100	0.0050	mg/L	0.100	ND	100	75-125	1.83	20	
Lead	0.106	0.0010	mg/L	0.100	ND	106	75-125	0.798	20	
Nickel	0.0994	0.0050	mg/L	0.100	0.0005	98.9	75-125	2.00	20	
Selenium	0.1028	0.0020	mg/L	0.100	ND	103	75-125	0.856	20	
Silver	0.110	0.0050	mg/L	0.100	ND	110	75-125	2.65	20	
Thallium	0.112	0.0005	mg/L	0.100	ND	112	75-125	2.72	20	
Tin	0.112	0.0050	mg/L	0.100	ND	112	75-125	0.812	20	
Vanadium	0.123	0.0020	mg/L	0.100	ND	123	75-125	3.25	20	
Zinc	0.107	0.0050	mg/L	0.100	ND	107	75-125	3.00	20	
Post Spike (1IJ1122-PS1) Source: 1IJ1462-01 Prepared: 10/20/25 09:25 Analyzed: 10/20/25 20:48										
Antimony	0.0212		mg/L	0.0200	0.0008	102	80-120			
Arsenic	0.0179		mg/L	0.0200	0.0004	87.7	80-120			
Barium	0.366		mg/L	0.0200	0.354	59.8	80-120			M6
Beryllium	0.0205		mg/L	0.0200	0.000002	102	80-120			
Cadmium	0.0194		mg/L	0.0200	-0.000004	97.0	80-120			
Chromium	0.0215		mg/L	0.0200	0.0010	103	80-120			
Cobalt	0.0201		mg/L	0.0200	0.0001	99.9	80-120			
Copper	0.0198		mg/L	0.0200	0.0007	95.7	80-120			
Lead	0.0204		mg/L	0.0200	0.000006	102	80-120			
Nickel	0.0194		mg/L	0.0200	0.0005	94.2	80-120			
Selenium	0.0200		mg/L	0.0200	0.0006	97.3	80-120			
Silver	0.0216		mg/L	0.0200	0.000006	108	80-120			
Thallium	0.0202		mg/L	0.0200	0.000005	101	80-120			
Tin	0.0207		mg/L	0.0200	0.0003	102	75-125			
Vanadium	0.0212		mg/L	0.0200	0.000009	106	80-120			
Zinc	0.0219		mg/L	0.0200	0.0024	97.3	80-120			
Batch 1IJ1552 - EPA 7470A Hg Water - EPA 7470A										
Blank (1IJ1552-BLK1) Prepared: 10/27/25 15:36 Analyzed: 10/28/25 16:06										
Mercury	<0.00050	0.00050	mg/L							
LCS (1IJ1552-BS1) Prepared: 10/27/25 15:36 Analyzed: 10/28/25 16:08										
Mercury	0.00240	0.00050	mg/L	0.00250		96.1	80-120			
Matrix Spike (1IJ1552-MS1) Source: 1IJ1317-01 Prepared: 10/27/25 15:36 Analyzed: 10/28/25 16:13										
Mercury	0.00425	0.00200	mg/L	0.00250	0.00118	123	75-125			
Matrix Spike Dup (1IJ1552-MSD1) Source: 1IJ1317-01 Prepared: 10/27/25 15:36 Analyzed: 10/28/25 16:15										

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CERTIFICATE OF ANALYSIS

1IJ1462

Determination of Total Metals	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1IJ1552 - EPA 7470A Hg Water - EPA 7470A										
Matrix Spike Dup (1IJ1552-MSD1)		Source: 1IJ1317-01		Prepared: 10/27/25 15:36 Analyzed: 10/28/25 16:15						
Mercury	0.00450	0.00200	mg/L	0.00250	0.00118	133	75-125	5.60	20	M1

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.
M6:	Matrix spike recovery is outside of acceptance limits. The analyte concentration is greater than 4X the spiking level.
Q2:	LCS recovery is above acceptance limits.
Q3:	LCS recovery is below acceptance limits. The reported value is estimated.
R1:	Duplicate RPD is outside acceptance criteria.
RL:	Reporting Limit
RPD:	Relative Percent Difference
S:	Spike recovery outside of acceptance limits.
S1:	Surrogate recovery is above acceptance limits.
S2:	Surrogate recovery is below acceptance limits.

Cooler Receipt Log

Cooler ID:	Default Cooler	Temp:	5.0°C	Cooler ID:	New Cooler	Temp:	5.5°C
Cooler ID:	New Cooler [1]	Temp:	5.9°C	Cooler ID:	New Cooler [2]	Temp:	6.6°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
10/31/25 10:24

CHAIN OF CUSTODY RECORD



600 East 17th Street South
Newton, IA 50208
Phone: 641-792-8451

Page 1 of 2

Printed: 9/24/2025 10:52:03AM

Page 58 of 58

SITE INFORMATION

Sampler: TODD WHIPPLE

Project: **Bremer Co. Landfill - New Regs**
6035

REPORT TO

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

INVOICE TO

Ken Kammeyer
Bremer County Board of Supervisors
415 E Bremer Ave
Waverly, IA 50677

SPECIAL INSTRUCTIONS

None

Turn Around Time

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

LAB USE ONLY



1 I J 1 4 6 2

HLW Engineering
PM: Heather Murphy

Temperature: 5.0°/5.5° °C5.9°/6.6°

Number	Sample Identification / Client ID	Matrix	Sample Type	Date	Time	# Containers	Analyses	Lab Sample Number
01-001	MW-1	Aqueous	GRAB	10/13/25	8:30	7	Indfil-app1-metals-6020dfill-app1-voc-group	01
02-001	MW-2A	Aqueous	GRAB	10/13/25	8:44	7	Indfil-app1-metals-6020dfill-app1-voc-group	02
03-001	MW-3	Aqueous	GRAB	10/13/25	9:46	7	Indfil-app1-metals-6020dfill-app1-voc-group	03
04-001	MW-4	Aqueous	GRAB	10/13/25	9:30	7	Indfil-app1-metals-6020dfill-app1-voc-group	04
05-001	MW-105B	Aqueous	GRAB	10/13/25	10:27	18	Indfil-app2-org Indfil-app2-inorg-6020	05
06-001	MW-108A	Aqueous	GRAB	10/13/25	10:01	7	Indfil-app1-metals-6020dfill-app1-voc-group	06
07-001	MW-110A	Aqueous	GRAB	10/13/25	9:05	7	Indfil-app1-metals-6020dfill-app1-voc-group	07
08-001	Duplicate	Aqueous	GRAB	10/13/25	✓	1	Indfil-app1-metals-6020dfill-app1-voc-group	08

Relinquished By [Signature]Date/Time 10/15/25Relinquished By [Signature]Date/Time 10-15-25 9:30

Received By

Date/Time

Received for Lab By

Date/Time

Remarks:

Appendix D

Field Turbidity Summary

Bremer County Sanitary Landfill

Field Turbidity Over Time

No-Purge Sampling

	10/15/14	1/11/15	4/13/15	7/21/15	9/22/15	12/30/15	4/11/16	10/12/16	4/13/17	10/25/17	1/12/18	4/12/18
Well	NTU	NTU	NTU	NTU	NTU	NTU	NTU	NTU	NTU	NTU	NTU	NTU
1	0.67	1.7	0.08	0.68	0.15		0.1	3.08	0.5	0.81		0.89
2A	0.76	1.89	1.43	1.79	2.48		0.56	1.53	1.46	1.05		0.65
3	2.72	4.52	0.18		0.22		0.14	2.07	0.38	4.67		2.19
4	2.67	1.07	0.91		0.12	0.3	0.19	4.5	0.4	0.98		7.76
105B	0.97	---	1.74		14.76	0.93	0.8	0.99	6.22	0.63	0.37	1.24
108A	4.8	---	11.61		10.7		5.38	2.2	7.23	4.21	14.32	10.8
110A	0.77	---	4.41		1.01		1.64	5.15	6.02	2.09		11.2
Max	4.80	4.52	11.61	1.79	14.76	0.93	5.38	5.15	7.23	4.67	14.32	11.20
Min	0.67	1.07	0.08	0.68	0.12	0.30	0.10	0.99	0.38	0.63	0.37	0.65
Median	0.97	1.80	1.43	1.24	1.01	0.62	0.56	2.20	1.46	1.05	7.35	2.19
Average	1.91	2.30	2.91	1.24	4.21	0.62	1.26	2.79	3.17	2.06	7.35	4.96

Bremer (

Field Turbic

No-Purge

	10/16/18	4/18/19	10/15/19	1/9/20	4/6/20	10/15/20	4/12/21	10/6/21	4/14/22	10/25/22	1/9/23	4/19/23
<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>	<u>NTU</u>	<u>NTU</u>
1	0.45	1.84	1.14		1.33	1.46	1.25	1.51	1.26	1.12		1.03
2A	0.82	1.04	1.07		1.21	1.77	1.51	1.82	2.31	1.98		1.1
3	0.43	0.91	0.79		1.14	1.44	1.52	1.48	2.01	0.94	1.07	1.31
4	0.55	0.76	0.75		1.43	1.2	1.44	1.18	2.14	0.63		1.11
105B	0.37	0.84	0.77	2.8	1.11	2.68	22.89	8.66	11.1	1.18		0.93
108A	1.56	16.1	2.65		4.09	2.89	15.63	12.7	3.7	3.91		28.21
110A	0.61	0.91	0.75		18.98	2.82	9.85	11.78	1.43	2.93		11.39
Max	1.56	16.10	2.65	2.80	2.65	2.89	2.65	12.70	2.65	3.91	1.07	2.65
Min	0.37	0.76	0.75	2.80	0.75	1.20	0.75	1.18	0.75	0.63	1.07	0.75
Median	0.55	0.91	0.79	2.80	0.79	1.77	0.79	1.82	0.79	1.18	1.07	0.79
Average	0.68	3.20	1.13	2.80	1.13	2.04	1.13	5.59	1.13	1.81	1.07	1.13

Bremer C

Field Turbic

No-Purge

	10/23/23	4/9/24	10/13/25	Max	Min	Ave	Std Dev
<u>Well</u>	<u>NTU</u>	<u>NTU</u>	<u>NTU</u>				
1	2.63	2.23	0.73	3.08	0.08	1.16	0.77
2A	5.48	1.75	0.95	5.48	0.56	1.58	0.99
3	2.34	3.21	0.88	4.67	0.14	1.59	1.26
4	1.73	2.25	0.9	7.76	0.12	1.52	1.67
105B	1.92	1.7	1.63	22.89	0.37	3.63	5.51
108A	19.8	173.2	129.7	173.20	1.56	22.06	42.94
110A	3.31	7.26	130	130.00	0.61	11.16	27.67
Max	19.80	173.20	130.00				
Min	1.73	1.70	0.73				
Median	2.63	2.25	0.95				
Average	5.32	27.37	37.83				

Appendix E

Running Summary of Prediction Limit Exceedances

Spring 2014		Fall 2014	
MW-105B	Cobalt	MW-105B	bis(2-ethylhexyl)phthalate
	Nickel		
	Chlorobenzene		
MW-108A	Arsenic	MW-108A	Arsenic
	Cobalt		Methyl parathion
	Nickel		
	Benzene		
	Chloroethane		
MW-110A	Arsenic	MW-110A	Arsenic
	Barium		Barium
	Cobalt		1,4-dichlorobenzene
	1,1-dichloroethane		Benzene
	1,4-dichlorobenzene		Chlorobenzene
	Benzene		Chloroethane
	Chlorobenzene		Vinyl chloride
	Chloroethane		
	Ethylbenzene		
	Vinyl chloride		

Spring 2015		Fall 2015	
MW-105B	None	MW-105B	bis(2-ethylhexyl)phthalate
			Chlorobenzene
MW-108A	Arsenic	MW-108A	Arsenic
	Cobalt		Benzene
	Acetone		Chloroethane
	Benzene		Parathion*
	Chloroethane		
MW-110A	Arsenic	MW-110A	Arsenic
	Barium		Barium
	Cobalt		1,4-dichlorobenzene
	1,4-dichlorobenzene		Benzene
	Benzene		Chlorobenzene
	Chlorobenzene		Chloroethane
	Chloroethane		Ethylbenzene
	Vinyl chloride		Vinyl chloride

Spring 2016		Fall 2016	
MW-108A	Arsenic	MW-108A	Arsenic
MW-110A	Arsenic	MW-110A	Arsenic
	Barium		Barium
	Cobalt		Cobalt
	1,4-dichlorobenzene		1,1-dichloroethane
			1,4-dichlorobenzene
			Benzene
			Chlorobenzene
			Chloroethane
			Vinyl chloride

Spring 2017		Fall 2017	
MW-105B	None	MW-105B	Cobalt
MW-108A	Arsenic	MW-108A	Arsenic
			Benzene
MW-110A	Arsenic	MW-110A	Arsenic
	Barium		Barium
	Cobalt		Cobalt
	1,4-dichlorobenzene		1,1-dichloroethane
	Benzene		1,4-dichlorobenzene
	Chlorobenzene		Benzene
	Chloroethane		Chlorobenzene
	Ethylbenzene		Chloroethane
	Toluene		Vinyl chloride
	Vinyl chloride		
	Xylenes		

Spring 2018		Fall 2018	
MW-105B	Cobalt	MW-105B	None
MW-108A	Arsenic	MW-108A	Arsenic
	Cobalt		
MW-110A	Arsenic	MW-110A	Arsenic
	Barium		Barium
	Cobalt		Cobalt
	1,4-dichlorobenzene		1,4-dichlorobenzene
	Benzene		Benzene
	Chlorobenzene		Chlorobenzene
			Chloroethane

Spring 2019		Fall 2019	
MW-105B	None	MW-105B	None
MW-108A	Arsenic	MW-108A	Arsenic
	Cobalt		Barium
MW-110A	Arsenic	MW-110A	Arsenic
	Cobalt		Barium
	1,4-dichlorobenzene		Cobalt
	Benzene		1,1-dichloroethane
	Chlorobenzene		Benzene
	Chloroethane		Chlorobenzene
			Chloroethane
			Vinyl chloride
			Xylenes

Spring 2020		Fall 2020	
MW-105B	None	MW-105B	Cobalt
MW-108A	Arsenic	MW-108A	Arsenic
			bis(2-ethylhexyl)phthalate
MW-110A	Arsenic	MW-110A	Arsenic
	Barium		Barium
	Cobalt		Cobalt
	1,1-dichloroethane		1,1-dichloroethane
	Benzene		1,4-dichlorobenzene
	Chlorobenzene		Benzene
	Chloroethane		Chlorobenzene
	Vinyl chloride		Chloroethane

Spring 2021		Fall 2021	
MW-108A	Cobalt	MW-108A	Arsenic
	Nickel		Cadmium
			Cobalt
			Nickel
			Zinc
MW-110A	Arsenic	MW-110A	Arsenic
	Barium		Barium
	Cobalt		Cobalt
	1,1-dichloroethane		1,1-dichloroethane
	1,4-dichlorobenzene		1,4-dichlorobenzene
	Benzene		Benzene
	Chlorobenzene		Chlorobenzene
	Chloroethane		Chloroethane

Spring 2022		Fall 2022	
MW-3	None	MW-3	None
MW-4	Cobalt	MW-4	None
MW-105B	Cobalt	MW-105B	Bromoform
MW-108A	Arsenic	MW-108A	Arsenic
	Cadmium		Cobalt
	Cobalt		
	Nickel		
	Zinc		
MW-110A	Arsenic	MW-110A	Arsenic
	Cobalt		Barium
	Nickel		Cobalt
	1,4-dichlorobenzene		1,1-dichloroethane
	Benzene		1,4-dichlorobenzene
	Chlorobenzene		Benzene
	Chloroethane		Chlorobenzene
			Chloroethane

Spring 2023		Fall 2023	
MW-3	None	MW-3	None
MW-4	None	MW-4	None
MW-105B	None	MW-105B	None
MW-108A	Cobalt	MW-108A	Arsenic
	Nickel		Cadmium
			Cobalt
			Nickel
			Zinc
MW-110A	Arsenic	MW-110A	Arsenic
	Cobalt		Barium
	Nickel		Cobalt
	1,1-dichloroethane		Nickel
	1,4-dichlorobenzene		Zinc
	Benzene		1,4-dichlorobenzene
	Chlorobenzene		Benzene
	Chloroethane		Chlorobenzene
			Chloroethane

Spring 2024		Fall 2024 – Not Sampled – Annual Requirement	
MW-3	None		
MW-4	None		
MW-105B	None		
MW-108A	Arsenic		
	Cobalt		
	Nickel		
	Zinc		
MW-110A	Arsenic		
	Cobalt		
	Nickel		
	Zinc		
	1,1-dichloroethane		
	1,4-dichlorobenzene		
	Benzene		
	Chlorobenzene		
	Chloroethane		

Spring 2025 - Not Sampled – Annual Requirement		Fall 2025	
		MW-3	None
		MW-4	None
		MW-105B	bis(2-ethylhexyl)phthalate
		MW-108A	Arsenic
			Cadmium
			Cobalt
			Nickel
		MW-110A	Arsenic
			Barium
			Cobalt
			1,4-dichlorobenzene
			Benzene
			Chlorobenzene
			Chloroethane

Appendix F

Assessment Monitoring Results

Historic Appendix II Compound Detections (Green Highlights = Full Appendix II Samples)

Date	bis(2-ethylhexyl)phthalate (ug/L)				Methyl parathion (ug/L)			
	MW-4	MW-105B	MW-108A	MW-110A	MW-4	MW-105B	MW-108A	MW-110A
4/4/09	<6	<6	<6	<6	<0.4	<0.4	<0.4	<0.4
6/9/09	NT	NT	NT	NT	NT	NT	NT	NT
7/9/09	NT	NT	NT	NT	NT	NT	NT	NT
10/9/09	NT	NT	NT	NT	NT	NT	NT	NT
4/10/2010	NT	NT	NT	NT	NT	NT	NT	NT
4/13/2010	NT	NT	NT	NT	NT	NT	NT	NT
6/10/2010	NT	NT	NT	NT	NT	NT	NT	NT
6/29/2010	NT	NT	NT	NT	NT	NT	NT	NT
9/10/2010	NT	NT	NT	NT	NT	NT	NT	NT
9/27/2010	NT	NT	NT	NT	NT	NT	NT	NT
4/1/11	NT	NT	NT	NT	NT	NT	NT	NT
4/11/11	NT	NT	NT	NT	NT	NT	NT	NT
9/1/11	NT	NT	NT	NT	NT	NT	NT	NT
4/9/12	NT	NT	NT	NT	NT	NT	NT	NT
4/15/13	NT	NT	NT	NT	NT	NT	NT	NT
10/7/13	NT	NT	NT	<6	NT	NT	NT	<0.4
4/17/14	NT	NT	NT	<6	NT	NT	NT	<0.4
10/15/14	NT	12.0	<6	NT	NT	<0.4	0.5	NT
4/13/15	NT	<10	NT	NT	NT	NT	<0.1	NT
9/22/15	NT	8.0	<6	NT	NT	<0.4	<0.4	NT
4/11/16	NT	<4	NT	NT	NT	NT	<0.1	NT
10/12/16	NT	<4	NT	NT	NT	NT	<0.1	NT
4/13/17	NT	<6 ⁽¹⁾	NT ⁽¹⁾	NT ⁽¹⁾	NT	NT ⁽²⁾	NT ⁽²⁾	NT ⁽²⁾
10/25/17	NT	NT ⁽¹⁾	NT ⁽¹⁾	NT ⁽¹⁾	NT	NT ⁽²⁾	NT ⁽²⁾	NT ⁽²⁾
4/12/18	NT	NT ⁽¹⁾	NT ⁽¹⁾	NT ⁽¹⁾	NT	NT ⁽²⁾	NT ⁽²⁾	NT ⁽²⁾
10/16/18	NT	NT ⁽¹⁾	NT ⁽¹⁾	NT ⁽¹⁾	NT	NT ⁽²⁾	NT ⁽²⁾	NT ⁽²⁾
4/18/19	NT	NT ⁽¹⁾	NT ⁽¹⁾	<6	NT	NT ⁽²⁾	NT ⁽²⁾	<0.4
10/15/19	NT	NT ⁽¹⁾	NT ⁽¹⁾	NT ⁽¹⁾	NT	NT ⁽²⁾	NT ⁽²⁾	NT ⁽²⁾
4/6/2020	NT	NT ⁽¹⁾	NT ⁽¹⁾	NT ⁽¹⁾	NT	NT ⁽²⁾	NT ⁽²⁾	NT ⁽²⁾
10/15/2020	NT	<6	10.0	NT ⁽¹⁾	NT	<0.4	<0.4	NT ⁽²⁾
4/12/2021	NT	NT ⁽¹⁾	NT ⁽¹⁾	NT ⁽¹⁾	NT	NT ⁽²⁾	NT ⁽²⁾	NT ⁽²⁾
10/6/2021	NT	NT ⁽¹⁾	NT ⁽¹⁾	NT ⁽¹⁾	NT	NT ⁽²⁾	NT ⁽²⁾	NT ⁽²⁾
4/14/2022	NT	NT ⁽¹⁾	NT ⁽¹⁾	NT ⁽¹⁾	NT	NT ⁽²⁾	NT ⁽²⁾	NT ⁽²⁾
10/25/2022	10.0	NT ⁽¹⁾	NT ⁽¹⁾	NT ⁽¹⁾	<0.4	NT ⁽²⁾	NT ⁽²⁾	NT ⁽²⁾
1/9/2023	<6 ⁽¹⁾	NT ⁽¹⁾	NT ⁽¹⁾	NT ⁽¹⁾	NT ⁽²⁾	NT ⁽²⁾	NT ⁽²⁾	NT ⁽²⁾
4/19/2023	NT ⁽¹⁾	NT ⁽¹⁾	NT ⁽¹⁾	NT ⁽¹⁾	NT ⁽²⁾	NT ⁽²⁾	NT ⁽²⁾	NT ⁽²⁾
10/23/2023	NT ⁽¹⁾	NT ⁽¹⁾	NT ⁽¹⁾	NT ⁽¹⁾	NT ⁽²⁾	NT ⁽²⁾	NT ⁽²⁾	NT ⁽²⁾
4/9/2024	NT ⁽¹⁾	NT ⁽¹⁾	NT ⁽¹⁾	<6	NT ⁽²⁾	NT ⁽²⁾	NT ⁽²⁾	<0.4
10/13/2025	NT ⁽¹⁾	6.0	NT ⁽¹⁾	NT ⁽¹⁾	NT ⁽²⁾	<0.4	NT ⁽²⁾	NT ⁽²⁾

Note^(1,2)

- Bis (2-ethylhexyl)phthalate and Methyl Parathion testing frequency is now 1 time per five (5) years in accordance with the approval dated April 18, 2017 (Doc #89126) and February 6, 2017 (Doc #88343).