# 2024 ANNUAL GROUNDWATER QUALITY REPORT

# FOR THE

# BREMER COUNTY SANITARY LANDFILL

# 9-SDP-1-75C

# BREMER COUNTY, IOWA

**by:**
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**January, 2025**

**6035-23A.320**

# Table of Contents

**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: 1-15-2025

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 2024 water quality data collected April 9, 2024.

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 NE¼ of the SW¼ 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 2025 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 approximately 1 to 4 feet of variation in the recorded water table are observed seasonally over time.. A Water Table Contour Map (Figure 3) dated April 2024 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 April 9, 2024. 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 on 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 April 9, 2024 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 June 13, 2024 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 Point of Compliance - Corrective Action 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 Point of Compliance Corrective Action Wells and the Step-Out Corrective Action 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, First Semi-Annual Monitoring Event in 2024, dated May, 2024 is included in Appendix B.

The Keystone Analytical Reports for the laboratory testing of samples collected April 9, 2024 and June 13, 2024 are included in Appendix C.

**QUALITY ASSURANCE/QUALITY CONTROL**

A blind duplicate sample was collected at MW-2A during the April 9, 2024 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 April 9, 2024 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 May, 2024 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 2024. 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.

There were no verified prediction limit exceedance recorded in the current assessment monitoring system wells. 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 2025 (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).

**CORRECTIVE ACTION MONITORING & EVALUATIONS**

The SSL are currently limited to Point of Compliance Wells MW-108A (arsenic) and MW-110A (arsenic and cobalt). MW-3 and MW-4 are Step-Out Wells to monitor the effectiveness of the natural attenuation that is observed between each point of compliance well (MW-108A and MW-110A) and each respective Step-Out Well (MW-3 and MW-4).

The Confidence Interval (95% LCL to 95% UCL) is calculated and compared to the applicable GWPS to evaluate the performance of the Corrective Action Systems. A monitoring well is to remain in Corrective Action Monitoring until the 95% UCL value is below the applicable GWPS for a minimum of three (3) years at the Point of Compliance Corrective Action Monitoring Well(s).
The 95% UCL evaluations for MW-108A and MW-110A are presented in Table 8 and Table 10.
The green highlights in Table 8 and Table 10 indicate the 95% UCL values that exceed the GWPS.

Table 11 includes the evaluation of the corrective action trends over time.

Review of the Confidence Interval data (see Table 8 &10) indicates that the point of compliance wells MW-108A and MW-110A need to remain in the Corrective Action Monitoring System.

Review of the data for Step-Out Corrective Action Monitoring Well MW-3 and MW-4 indicates that both arsenic and cobalt concentrations diminish to acceptable levels before migrating to the Step-Out wells.

It appears that the natural attenuation processes are a sufficient corrective action at this facility. Since it has been in effect at this facility since 2008, it is deemed sufficient moving forward.

It is recommended that Point of Compliance Corrective Action Monitoring Wells MW-108A and MW-110A remain in the corrective action monitoring system until the 95% UCL diminishes to levels below the GWPS.

# Section 4.0 Gas Monitoring

Explosive gas monitoring is performed per 113.9(2) and the approved GMSP and was conducted annually during the 2024 reporting period. The IDNR Response Letter dated April 2, 2024 (Doc # 109724) 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 are illustrated on Figure 2. The sixteen Gas Vents (GV-1 through GV-16) were monitored on April 9, 2024 in order to determine whether gas is passively vented at each gas vent. The 2024 monitoring results indicate that the vents are productive and are venting gas.

A summary table of gas monitoring for 2024 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 April 9, 2024 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, GP-4, and GP-5 have screen exposed to the vadose zone.

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

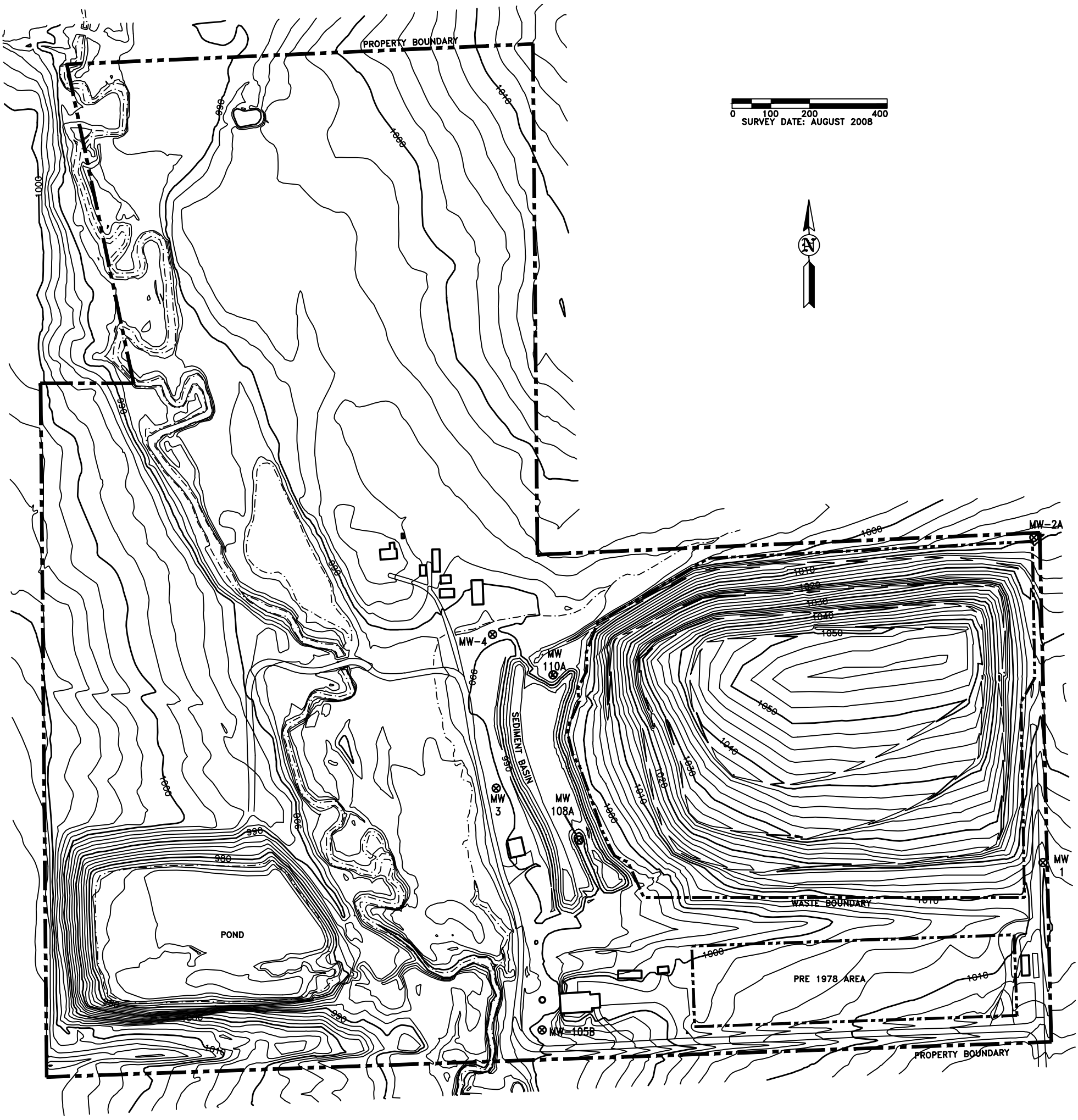
This report concludes that detection and assessment/corrective action monitoring have been sufficient over time to document the stable nature of water quality across the site.

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 2025 as the initial step in proceeding with the Environmental Covenant.

We request that IDNR suspend requirements for further sampling and testing in 2025 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 2025.

# Figures

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# SITE PLAN

BREMER COUNTY SANITARY LANDFILL
WAVERLY, IOWA

FIGURE: 1

| REVISION | NO. | DATE |
|---|---|---|
| DRAWN DRA | PROJECT NO. 6035 | DATE 5–20–24 |

● A-1 = AMBIENT AIR GAS MONITORING POINT
▲ GP-1 = SUBSURFACE GAS PROBE
⊖ GV-1 = PASSIVE GAS VENT

0 100 200 400
SURVEY DATE: AUGUST 2008

N

A-5
GP-3 MW-2A
A-1
GP-4
MW-4
MW 110A
GV-16
GV-13
GV-12
GV-11
GV-10
GV-9
GV-8
GV-7
GV-6
GV-5
GV-15
GV-14
GV-4
GV-3
GV-2
GV-1
A-4
MW 3
MW 108A
SEDIMENT BASIN
GP-2 MW 1
A-2
WASTE BOUNDARY
POND
PRE 1978 AREA
A-3
GP-1
GP-5
MW-105B
PROPERTY BOUNDARY

990 1000 1010 1020 1030 1040 1050 980 970

FIGURE: 2

| REVISION | NO. | DATE |
|---|---|---|
| DRAWN DRA | PROJECT NO. 6035 | DATE 5-20-24 |

# SITE PLAN WITH GAS MONITORING LOCATIONS

BREMER COUNTY SANITARY LANDFILL
WAVERLY, IOWA

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HLW Engineering Group

| WATER ELEVATION APRIL 9, 2024 | |
|---|---|
| WELL | ELEV. |
| | |
| MW-1 | 1009.24 |
| MW-2A | 1003.71 |
| MW-3 | 984.09 |
| MW-4 | 984.99 |
| MW-105B | 982.75 |
| MW-108A | 984.13 |
| MW-110A | 984.74 |
| | |

0 100 200 400

SURVEY DATE: AUGUST 2008

MW-2A

MW-4

MW 110A

MW 3

MW 108A

MW-105B

MW 1

SEDIMENT BASIN

POND

WASTE BOUNDARY

PRE 1978 AREA

PROPERTY BOUNDARY

990 980 966 1010 1020 1030 1040 1050 1000 1008 982

FIGURE: 3

| REVISION | NO. | DATE |
|---|---|---|
| DRAWN DRA | PROJECT NO. 6035 | DATE 5-20-24 |

GROUNDWATER CONTOURS

BREMER COUNTY SANITARY LANDFILL
WAVERLY, IOWA

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# Tables
# (in IDNR Format)

Table Index

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 | 22 | 0 | 0 |
| MW-2A | Weathered Till | Background | NC | None | None | 22 | 0 | 0 |
| MW-3 | Weathered Till | Detection & SOW-CA | NC | None | None | 22 | 0 | 22 |
| MW-4 | Weathered Till | Assessment & SOW-CA | NC | None | None | 0 | 22 | 22 |
| MW-105B | Weathered Till | Assessment | NC | None | None | 0 | 22 | 0 |
| MW-108A | Weathered Till | POC-CA | NC | **arsenic, cobalt, nickel, zinc** | **arsenic** | 0 | 0 | 22 |
| MW-110A | Weathered Till | POC-CA | NC | **arsenic, cobalt, nickel, zinc, 1,1-dichloroethane, 1,4-dichlorobenzene, benzene, chlorobenzene, chloroethane** | **arsenic, cobalt** | 0 | 0 | 22 |

*SOW-CA = Step-Out Well for Corrective Action*
*POC-CA = Point of Compliance Well for Corrective Action*

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, 2025 | October, 2025 | Previously Collected | Next Event |
| MW-1 | | --- | Appendix I | 4/4/2009 | N/A |
| MW-2A | **See Table 2 Supplement** | --- | 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 | Fall of 2025 |
| MW-108A | | --- | Appendix I | 4/4/2009, 10/15/2014, 9/22/2015, 10/15/2020 | Fall of 2025 |
| MW-110A | | --- | Appendix I | 4/4/2009, 10/7/2013, 4/17/2014, 4/8/2019, 4/9/2024 | Spring of 2029 |

Table 2A – Summary of All Well Testing

Itemized Summary of Hydrologic Monitoring (to date)

| WELL | 4/4/09 | 4/9/12 | 9/10/12 | 4/15/13 | 10/7/13 |
|---|---|---|---|---|---|
| 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 |

| WELL | 4/17/14 | 10/15/14 | 1/12/15 | 4/13/15 | 7/21/15 |
|---|---|---|---|---|---|
| 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 | --- |

| WELL | 9/22/15 | 12/30/15 | 4/11/16 | 10/12/16 | 4/13/17 | 10/25/17 |
|---|---|---|---|---|---|---|
| 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 |

| WELL | 1/12/18 | 4/12/18 | 10/16/18 | 4/18/19 | 10/15/19 |
|---|---|---|---|---|---|
| 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 |

| WELL | 1/9/20 | 4/6/20 | 10/15/20 | 4/12/2021 | 7/1/2021 | 10/6/2021 |
|---|---|---|---|---|---|---|
| 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 |

| WELL | 4/14/2022 | 7/13/2022 | 10/25/2022 | 1/9/2023 | 4/19/2023 | 10/23/2023 |
|---|---|---|---|---|---|---|
| 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 |

| WELL | 4/19/2024 | 6/13/2024 |
|---|---|---|
| MW-1 (b) | Appendix I | R -VOC |
| MW-2A (b) | Appendix I | |
| MW-3 | Appendix I | |
| MW-4 | Appendix I[(3)] | |
| MW-105B | Appendix I[(3)] | |
| MW-108A | Appendix I[(3)] | |
| MW-110A | **Appendix II** | |
| Duplicate | At MW-2A | |

**(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)"l" | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a |

| Compliance with: | Monitoring Calendar Years | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 |
| 567 IAC 113.10(2)"f"(1) high and low water levels (biennial) | X | X | X | X | X | X | X | X | X | X |
| 567 IAC 113.10(2)"f"(2) changes in the hydrologic setting and flow paths (biennial) | X | | X | | X | | X | | X | |
| 567 IAC 113.10(2)"f"(3) well depths (annual) | X | X | X | X | X | X | X | X | X | X |
| 567 IAC 113.10(2)"f"(4) well recharge rates and chemistry (biennial) | X | | X | | X | | X | | X | |
| Waste separation from ground water 113.6(2)"l" | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a |

| Compliance with: | Monitoring Calendar Years | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 | 2032 | 2033 |
| 567 IAC 113.10(2)"f"(1) high and low water levels (biennial) | R | P | 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 | P | P | P | P | P | P | P | P | P |
| 567 IAC 113.10(2)"f"(4) well recharge rates and chemistry (biennial) | X | | P | | P | | P | | P | |
| Waste separation from ground water 113.6(2)"l" | 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* 4/9/2024 | Maximum Depth Discrepancy (ft) | Baseline Recharge (gpm)/date | Most Recent Recharge Rate **4/9/2024** | % Change |
|---|---|---|---|---|---|---|---|---|---|
| MW-1 | 1013.3 | 1002.2 | 20.1 | Groundwater Level (ft) | 4.06 | 0.2 | 0.000018 6/5/1991 | Full recovery in 24 hour | None percieved |
| | | | | Groundwater Elevation (Ft MSL) | 1009.24 | | | | |
| | | | | Measured Well Depth (ft) | 19.9 | | | | |
| | | | | Submerged (+) or Exposed screen (-) | 7.04 | | | | |
| MW-2A | 1012.74 | 1004.19 | 18.55 | Groundwater Level (ft) | 9.03 | 0 | 0.000066 6/5/1991 | Full recovery in 24 hour | None percieved |
| | | | | Groundwater Elevation (Ft MSL) | 1003.71 | | | | |
| | | | | Measured Well Depth (ft) | 18.55 | | | | |
| | | | | Submerged (+) or Exposed screen (-) | -0.48 | | | | |
| MW-3 | 991.35 | 980.7 | 18.65 | Groundwater Level (ft) | 7.26 | 1.1 | 0.0098 6/5/1991 | Full recovery in 2 hour | None percieved |
| | | | | Groundwater Elevation (Ft MSL) | 984.09 | | | | |
| | | | | Measured Well Depth (ft) | 17.55 | | | | |
| | | | | Submerged (+) or Exposed screen (-) | 3.39 | | | | |
| MW-4 | 990.8 | 982.05 | 18.75 | Groundwater Level (ft) | 5.81 | 0.35 | 0.0024 6/5/1991 | Full recovery in 2 hour | None percieved |
| | | | | Groundwater Elevation (Ft MSL) | 984.99 | | | | |
| | | | | Measured Well Depth (ft) | 18.4 | | | | |
| | | | | Submerged (+) or Exposed screen (-) | 2.94 | | | | |
| MW-105B | 993.06 | 981.16 | 21.9 | Groundwater Level (ft) | 10.31 | 0.35 | 0.0073 6/5/1991 | Full recovery in 2 hour | None percieved |
| | | | | Groundwater Elevation (Ft MSL) | 982.75 | | | | |
| | | | | Measured Well Depth (ft) | 21.55 | | | | |
| | | | | Submerged (+) or Exposed screen (-) | 1.59 | | | | |
| MW-108A | 994.7 | 983.75 | 20.55 | Groundwater Level (ft) | 10.57 | -0.1 | 0.00036 6/5/1991 | Full recovery in 2 hours | None percieved |
| | | | | Groundwater Elevation (Ft MSL) | 984.13 | | | | |
| | | | | Measured Well Depth (ft) | 20.65 | | | | |
| | | | | Submerged (+) or Exposed screen (-) | 0.38 | | | | |
| MW-110A | 995.9 | 985.9 | 21 | Groundwater Level (ft) | 11.16 | 0.35 | 0.00069 6/5/1991 | Full recovery in 1 hour | None percieved |
| | | | | Groundwater Elevation (Ft MSL) | 984.74 | | | | |
| | | | | Measured Well Depth (ft) | 20.65 | | | | |
| | | | | Submerged (+) or Exposed screen (-) | -1.16 | | | | |

* 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-1 | 1013.3 | MW-2A | 1012.74 | MW-3 | 991.35 | MW-4 | 990.8 | MW-105B | 993.06 | MW-108A | 994.7 | MW-110A | 995.9 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 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 |
| 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 | 44 | 0 | | | 2.0000 | 0.99 | 6 | SS |
| Arsenic (As) | µg/l | nonparametric | 44 | 0 | | | 4.0000 | 0.99 | 10 | SS |
| Barium (Ba) | µg/l | normal | 44 | 44 | 194.4273 | 144.2646 | 546.9330 | | 2000 | SS |
| Beryllium (Be) | µg/l | nonparametric | 44 | 0 | | | 4.0000 | 0.99 | 4 | SS |
| Cadmium (Cd) | µg/l | nonparametric | 44 | 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 | 44 | 1 | | | 0.9000 | 0.99 | 2.1 | SS |
| Copper (Cu) | µg/l | nonparametric | 42 | 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 | 44 | 4 | | | 7.1000 | 0.99 | 100 | SS |
| Selenium (Se) | µg/l | nonparametric | 44 | 0 | | | 4.0000 | 0.99 | 50 | SS |
| Silver (Ag) | µg/l | nonparametric | 44 | 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 | 44 | 2 | | | 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 | 44 | 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) | Monitoring Program |
|---|---|---|---|---|---|
| MW-108A | 4/9/2024 | Arsenic | 9.4 | 4.0 | Corrective Action |
| MW-108A | 4/9/2024 | Cobalt | 27.6 | 0.9 | Corrective Action |
| MW-108A | 4/9/2024 | Nickel | 55.6 | 7.1 | Corrective Action |
| MW-108A | 4/9/2024 | Zinc | 21.10 | 21.0 | Corrective Action |
| MW-110A | 4/9/2024 | Arsenic | 7.0 | 4.0 | Corrective Action |
| MW-110A | 4/9/2024 | Cobalt | 1460.0 | 0.9 | Corrective Action |
| MW-110A | 4/9/2024 | Nickel | 456.0 | 7.1 | Corrective Action |
| MW-110A | 4/9/2024 | Zinc | 21.4 | 21.0 | Corrective Action |
| MW-110A | 4/9/2024 | 1,1-dichloroethane | 1.1 | 1.0 | Corrective Action |
| MW-110A | 4/9/2024 | 1,4-dichlorobenzene | 3.6 | 1.0 | Corrective Action |
| MW-110A | 4/9/2024 | Benzene | 3.4 | 1.0 | Corrective Action |
| MW-110A | 4/9/2024 | Chlorobenzene | 7.6 | 1.0 | Corrective Action |
| MW-110A | 4/9/2024 | Chloroethane | 1.4 | 1.0 | Corrective Action |

Table 7 – Summary of Ongoing and Newly Identified SSI

**Table 7**

| KEY: | SSI | SSL LCL>GWPS |
|---|---|---|

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

**Summary of Ongoing & Newly Identified SSI**
**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-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 | 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 |

* 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 |
|---|---|---|

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

**Summary of Ongoing & Newly Identified SSI**
**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-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 | 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 | 10/25/2022 | 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 |

* 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**
**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-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 | 10/25/2022 | Bromoform | 1.4* | 1.000 | --- | 80 | 9/22/2015 | No-SSI | N/A |
| MW-105B | 4/19/2023 | Bromoform | <1.0 | 1.000 | --- | 80 | 9/22/2015 | No-SSI | N/A |
| MW-105B | 10/23/2023 | Bromoform | <1.0 | 1.000 | --- | 80 | 9/22/2015 | No-SSI | N/A |
| MW-105B | 4/9/2024 | Bromoform | <1.0 | 1.000 | --- | 80 | 9/22/2015 | No-SSI | N/A |

* Not verified

***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 |
|---|---|---|

*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-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 | 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 | 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 | 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 | 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 | 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 | 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 |

***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 |
|---|---|---|

*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 | 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** | 546.933 | 242.145 | 2,000.00 | 4/11/2016 | NA | 9/22/2015 |
| 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 | 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 | 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 |

**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 |
|---|---|---|

*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 | 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 | 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 | 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 | 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 |

**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 |
|---|---|---|

*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 | 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 | 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 | 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 |

***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**
**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 |
|---|---|---|

*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-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 | 4/11/2016 | Cadmium | <0.8 | 0.400 | 5 | NA | NA | NA | NA |
| MW-108A | 10/12/2016 | Cadmium | <0.8 | 0.400 | 5 | NA | NA | NA | NA |
| MW-108A | 4/13/2017 | Cadmium | <0.8 | 0.400 | 5 | NA | NA | NA | NA |
| MW-108A | 10/25/2017 | Cadmium | <0.8 | 0.400 | 5 | NA | NA | NA | NA |
| MW-108A | 4/12/2018 | Cadmium | <0.8 | 0.400 | 5 | NA | NA | NA | NA |
| MW-108A | 10/16/2018 | Cadmium | <0.8 | 0.400 | 5 | NA | NA | NA | NA |
| MW-108A | 4/18/2019 | Cadmium | <0.8 | 0.400 | 5 | NA | NA | NA | NA |
| MW-108A | 10/15/2019 | Cadmium | <0.8 | 0.400 | 5 | NA | NA | NA | NA |
| MW-108A | 4/6/2020 | Cadmium | <0.8 | 0.400 | 5 | NA | NA | NA | NA |
| MW-108A | 10/15/2020 | Cadmium | <0.8 | 0.400 | 5 | NA | NA | NA | NA |
| MW-108A | 4/12/2021 | Cadmium | <0.8 | 0.400 | 5 | NA | NA | NA | NA |
| MW-108A | 10/6/2021 | Cadmium | 2.0 | 1.741 | 5 | NA | NA | NA | NA |
| MW-108A | 4/14/2022 | Cadmium | 3.4 | 3.251 | 5 | NA | NA | NA | NA |
| MW-108A | 10/25/2022 | Cadmium | <0.8 | 3.251 | 5 | NA | NA | NA | NA |
| MW-108A | 4/19/2023 | Cadmium | <0.8 | 3.251 | 5 | NA | NA | NA | NA |
| MW-108A | 10/23/2023 | Cadmium | 1.5 | 3.090 | 5 | NA | NA | NA | NA |
| MW-108A | 4/9/2024 | Cadmium | <0.8 | 1.322 | 5 | NA | NA | NA | NA |
| MW-108A | 4/11/2016 | Cobalt | 5.2 | 15.482 | 2.8 | NA | NA | NA | NA |
| MW-108A | 10/12/2016 | Cobalt | 2.9 | 15.501 | 2.8 | NA | NA | NA | NA |
| MW-108A | 4/13/2017 | Cobalt | <0.8 | 6.174 | 2.8 | NA | NA | NA | NA |
| MW-108A | 10/25/2017 | Cobalt | 149 | 125.373 | 2.8 | NA | NA | NA | NA |
| MW-108A | 4/12/2018 | Cobalt | 1.1 | 124.987 | 2.1 | NA | NA | NA | NA |
| MW-108A | 10/16/2018 | Cobalt | <0.8 | 124.987 | 2.1 | NA | NA | NA | NA |
| MW-108A | 4/18/2019 | Cobalt | <0.8 | 0.987 | 2.1 | NA | NA | NA | NA |
| MW-108A | 10/15/2019 | Cobalt | <0.8 | 0.400 | 2.1 | NA | NA | NA | NA |
| MW-108A | 4/6/2020 | Cobalt | <0.8 | 0.987 | 2.1 | NA | NA | NA | NA |
| MW-108A | 10/15/2020 | Cobalt | <0.4 | 0.400 | 2.1 | NA | NA | NA | NA |
| MW-108A | 4/12/2021 | Cobalt | 9.1 | 7.692 | 2.1 | NA | NA | NA | NA |
| MW-108A | 10/6/2021 | Cobalt | 173.0 | 145.650 | 2.1 | NA | NA | NA | NA |
| MW-108A | 4/14/2022 | Cobalt | 56.6 | 153.198 | 2.1 | NA | NA | NA | NA |
| MW-108A | 10/25/2022 | Cobalt | 1.9 | 153.136 | 2.1 | NA | NA | NA | NA |
| MW-108A | 4/19/2023 | Cobalt | 8.4 | 153.139 | 2.1 | NA | NA | NA | NA |
| MW-108A | 10/23/2023 | Cobalt | 586.0 | 496.002 | 2.1 | NA | NA | NA | NA |
| MW-108A | 4/9/2024 | Cobalt | 27.6 | 493.440 | 2.1 | NA | NA | NA | NA |
| MW-108A | 4/11/2016 | Nickel | <4.0 | 11.303 | 100 | NA | NA | NA | NA |
| MW-108A | 10/12/2016 | Nickel | 5.2 | 11.106 | 100 | NA | NA | NA | NA |
| MW-108A | 4/13/2017 | Nickel | <4.0 | 8.233 | 100 | NA | NA | NA | NA |
| MW-108A | 10/25/2017 | Nickel | 39.7 | 33.844 | 100 | NA | NA | NA | NA |
| MW-108A | 4/12/2018 | Nickel | <4.0 | 33.598 | 100 | NA | NA | NA | NA |
| MW-108A | 10/16/2018 | Nickel | <4.0 | 33.598 | 100 | NA | NA | NA | NA |
| MW-108A | 4/18/2019 | Nickel | <4.0 | 2.000 | 100 | NA | NA | NA | NA |
| MW-108A | 10/15/2019 | Nickel | <4.0 | 2.000 | 100 | NA | NA | NA | NA |
| MW-108A | 4/6/2020 | Nickel | <4.0 | 2.000 | 100 | NA | NA | NA | NA |
| MW-108A | 10/15/2020 | Nickel | <4.0 | 2.000 | 100 | NA | NA | NA | NA |
| MW-108A | 4/12/2021 | Nickel | 7.6 | 6.694 | 100 | NA | NA | NA | NA |
| MW-108A | 10/6/2021 | Nickel | 46.9 | 40.125 | 100 | NA | NA | NA | NA |
| MW-108A | 4/14/2022 | Nickel | 77.7 | 75.394 | 100 | NA | NA | NA | NA |
| MW-108A | 10/25/2022 | Nickel | <4.0 | 75.394 | 100 | NA | NA | NA | NA |
| MW-108A | 4/19/2023 | Nickel | 34.6 | 77.134 | 100 | NA | NA | NA | NA |
| MW-108A | 10/23/2023 | Nickel | 292.0 | 255.293 | 100 | NA | NA | NA | NA |
| MW-108A | 4/9/2024 | Nickel | 55.6 | 251.887 | 100 | NA | NA | NA | NA |
| MW-108A | 4/11/2016 | Zinc | <8 | 4.000 | 2000 | NA | NA | NA | NA |
| MW-108A | 10/12/2016 | Zinc | <8 | 4.000 | 2000 | NA | NA | NA | NA |
| MW-108A | 4/13/2017 | Zinc | <8 | 4.000 | 2000 | NA | NA | NA | NA |
| MW-108A | 10/25/2017 | Zinc | 9.0 | 8.191 | 2000 | NA | NA | NA | NA |
| MW-108A | 4/12/2018 | Zinc | <20 | 8.191 | 2000 | NA | NA | NA | NA |
| MW-108A | 10/16/2018 | Zinc | <20 | 8.191 | 2000 | NA | NA | NA | NA |
| MW-108A | 4/18/2019 | Zinc | <8 | 8.191 | 2000 | NA | NA | NA | NA |
| MW-108A | 10/15/2019 | Zinc | <20 | 4.000 | 2000 | NA | NA | NA | NA |
| MW-108A | 4/6/2020 | Zinc | <20 | 4.000 | 2000 | NA | NA | NA | NA |
| MW-108A | 10/15/2020 | Zinc | <20 | 4.000 | 2000 | NA | NA | NA | NA |
| MW-108A | 4/12/2021 | Zinc | <20 | 4.000 | 2000 | NA | NA | NA | NA |
| MW-108A | 10/6/2021 | Zinc | 61.4 | 52.271 | 2000 | NA | NA | NA | NA |
| MW-108A | 4/14/2022 | Zinc | 35.7 | 58.823 | 2000 | NA | NA | NA | NA |
| MW-108A | 10/25/2022 | Zinc | <20 | 58.823 | 2000 | NA | NA | NA | NA |
| MW-108A | 4/19/2023 | Zinc | <20 | 58.823 | 2000 | NA | NA | NA | NA |
| MW-108A | 10/23/2023 | Zinc | 28.1 | 37.080 | 2000 | NA | NA | NA | NA |
| MW-108A | 4/9/2024 | Zinc | 21.1 | 28.529 | 2000 | NA | NA | NA | NA |
| MW-108A | 4/11/2016 | Benzene | <1.0 | 1.591 | 5 | NA | NA | NA | NA |
| MW-108A | 10/12/2016 | Benzene | <1.0 | 1.591 | 5 | NA | NA | NA | NA |
| MW-108A | 4/13/2017 | Benzene | <1.0 | 1.422 | 5 | NA | NA | NA | NA |
| MW-108A | 10/25/2017 | Benzene | 1.0 | 0.919 | 5 | NA | NA | NA | NA |
| MW-108A | 4/12/2018 | Benzene | <1.0 | 1.219 | 5 | NA | NA | NA | NA |
| MW-108A | 10/16/2018 | Benzene | <1.0 | 1.219 | 5 | NA | NA | NA | NA |
| MW-108A | 4/18/2019 | Benzene | <1.0 | 1.087 | 5 | NA | NA | NA | NA |
| MW-108A | 10/15/2019 | Benzene | <1.0 | 0.500 | 5 | NA | NA | NA | NA |
| MW-108A | 4/6/2020 | Benzene | <1.0 | 0.500 | 5 | NA | NA | NA | NA |
| MW-108A | 10/15/2020 | Benzene | <1.0 | 0.500 | 5 | NA | NA | NA | NA |
| MW-108A | 4/12/2021 | Benzene | <1.0 | 0.500 | 5 | NA | NA | NA | NA |
| MW-108A | 10/6/2021 | Benzene | <1.0 | 0.500 | 5 | NA | NA | NA | NA |
| MW-108A | 4/14/2022 | Benzene | <1.0 | 0.500 | 5 | NA | NA | NA | NA |
| MW-108A | 10/25/2022 | Benzene | <1.0 | 0.500 | 5 | NA | NA | NA | NA |
| MW-108A | 4/19/2023 | Benzene | <1.0 | 0.500 | 5 | NA | NA | NA | NA |
| MW-108A | 10/23/2023 | Benzene | <1.0 | 0.500 | 5 | NA | NA | NA | NA |
| MW-108A | 4/9/2024 | Benzene | <1.0 | 0.500 | 5 | NA | NA | NA | NA |

***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 & Newly Identified SSL**
**Annual Water Quality Report**
**Bremer County Sanitary Landfill**
**Permit No. 09-SDP-01-75C**

KEY: | SSI | SSL UCL>GWPS

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

| Monitoring Well | Compound | Sample Date | Each Result (ug/L) | 95% UCL (ug/L) | GWPS Limit (ug/L) | SSL Initial Exceedance | Compliance Date 1st Occurrence | Compliance Date Most Recent | Compliance Date Duration (years) |
|---|---|---|---|---|---|---|---|---|---|
| MW-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 | 4/11/2016 | Barium | **639** | 1651.157 | 2,000.00 | NA | NA | NA | NA |
| MW-110A | 10/12/2016 | Barium | **748** | 982.912 | 2,000.00 | NA | NA | NA | NA |
| MW-110A | 4/13/2017 | Barium | **890** | 904.2 | 2,000.00 | NA | NA | NA | NA |
| MW-110A | 10/25/2017 | Barium | **784** | 887.022 | 2,000.00 | NA | NA | NA | NA |
| MW-110A | 4/12/2018 | Barium | **733** | 872.045 | 2,000.00 | NA | NA | NA | NA |
| MW-110A | 10/16/2018 | Barium | **650** | 882.334 | 2,000.00 | NA | NA | NA | NA |
| MW-110A | 4/18/2019 | Barium | **551** | 799.391 | 2,000.00 | NA | NA | NA | NA |
| MW-110A | 10/15/2019 | Barium | **803** | 812.040 | 2,000.00 | NA | NA | NA | NA |
| MW-110A | 4/6/2020 | Barium | **816** | 854.819 | 2,000.00 | NA | NA | NA | NA |
| MW-110A | 10/15/2020 | Barium | **701** | 861.826 | 2,000.00 | NA | NA | NA | NA |
| MW-110A | 4/12/2021 | Barium | **713** | 828.377 | 2,000.00 | NA | NA | NA | NA |
| MW-110A | 10/6/2021 | Barium | **714** | 799.119 | 2,000.00 | NA | NA | NA | NA |
| MW-110A | 4/14/2022 | Barium | **520** | 773.572 | 2,000.00 | NA | NA | NA | NA |
| MW-110A | 10/25/2022 | Barium | **675** | 763.883 | 2,000.00 | NA | NA | NA | NA |
| MW-110A | 4/19/2023 | Barium | **537** | 726.072 | 2,000.00 | NA | NA | NA | NA |
| MW-110A | 10/23/2023 | Barium | **842** | 819.274 | 2,000.00 | NA | NA | NA | NA |
| MW-110A | 4/9/2024 | Barium | **199** | 884.355 | 2,000.00 | NA | NA | NA | NA |
| 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 | 4/11/2016 | Nickel | <4 | 2.000 | 100.00 | NA | NA | NA | NA |
| MW-110A | 10/12/2016 | Nickel | <4 | 2.000 | 100.00 | NA | NA | NA | NA |
| MW-110A | 4/13/2017 | Nickel | <4 | 2.000 | 100.00 | NA | NA | NA | NA |
| MW-110A | 10/25/2017 | Nickel | <4 | 2.000 | 100.00 | NA | NA | NA | NA |
| MW-110A | 4/12/2018 | Nickel | <4 | 2.000 | 100.00 | NA | NA | NA | NA |
| MW-110A | 10/16/2018 | Nickel | <4 | 2.000 | 100.00 | NA | NA | NA | NA |
| MW-110A | 4/18/2019 | Nickel | <4 | 2.000 | 100.00 | NA | NA | NA | NA |
| MW-110A | 10/15/2019 | Nickel | <4 | 2.000 | 100.00 | NA | NA | NA | NA |
| MW-110A | 4/6/2020 | Nickel | <4 | 2.000 | 100.00 | NA | NA | NA | NA |
| MW-110A | 10/15/2020 | Nickel | <4 | 2.000 | 100.00 | NA | NA | NA | NA |
| MW-110A | 4/12/2021 | Nickel | <4 | 2.000 | 100.00 | NA | NA | NA | NA |
| MW-110A | 10/6/2021 | Nickel | <4 | 2.000 | 100.00 | NA | NA | NA | NA |
| MW-110A | 4/14/2022 | Nickel | **55.9** | 47.176 | 100.00 | NA | NA | NA | NA |
| MW-110A | 10/25/2022 | Nickel | <4 | 47.176 | 100.00 | NA | NA | NA | NA |
| MW-110A | 4/19/2023 | Nickel | **21.2** | 50.172 | 100.00 | NA | NA | NA | NA |
| MW-110A | 10/23/2023 | Nickel | **9.0** | 50.181 | 100.00 | NA | NA | NA | NA |
| MW-110A | 4/9/2024 | Nickel | **456.0** | 384.097 | 100.00 | NA | NA | NA | NA |
| MW-110A | 4/11/2016 | Zinc | <8 | --- | 100.00 | NA | NA | NA | NA |
| MW-110A | 10/12/2016 | Zinc | **11.2** | --- | 100.00 | NA | NA | NA | NA |
| MW-110A | 4/13/2017 | Zinc | <8 | --- | 100.00 | NA | NA | NA | NA |
| MW-110A | 10/25/2017 | Zinc | <8 | 10.000 | 100.00 | NA | NA | NA | NA |
| MW-110A | 4/12/2018 | Zinc | <20 | 10.000 | 100.00 | NA | NA | NA | NA |
| MW-110A | 10/16/2018 | Zinc | <20 | 10.000 | 100.00 | NA | NA | NA | NA |
| MW-110A | 4/18/2019 | Zinc | <8 | 10.000 | 100.00 | NA | NA | NA | NA |
| MW-110A | 10/15/2019 | Zinc | <20 | 10.000 | 100.00 | NA | NA | NA | NA |
| MW-110A | 4/6/2020 | Zinc | <20 | 10.000 | 100.00 | NA | NA | NA | NA |
| MW-110A | 10/15/2020 | Zinc | <20 | 10.000 | 100.00 | NA | NA | NA | NA |
| MW-110A | 4/12/2021 | Zinc | <20 | 10.000 | 100.00 | NA | NA | NA | NA |
| MW-110A | 10/6/2021 | Zinc | <20 | 10.000 | 100.00 | NA | NA | NA | NA |
| MW-110A | 4/14/2022 | Zinc | <20 | 10.000 | 100.00 | NA | NA | NA | NA |
| MW-110A | 10/25/2022 | Zinc | <20 | 10.000 | 100.00 | NA | NA | NA | NA |
| MW-110A | 4/19/2023 | Zinc | <20 | 10.000 | 100.00 | NA | NA | NA | NA |
| MW-110A | 10/23/2023 | Zinc | **31.5** | 28.020 | 100.00 | NA | NA | NA | NA |
| MW-110A | 4/9/2024 | Zinc | **21.4** | 30.404 | 100.00 | NA | 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 | <4 | <4 | <4 | <4 | <4 | <4 | <4 |
| 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 | <4 | <4 | <4 | <4 | <4 | <4 | <4 |
| 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 | <4 | <4 | <4 | <4 | <4 | <4 | <4 | <4 |
| 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 | <.4 | <.4 | <.4 | <.4 |
| 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 | <4 | <4 | <2 | <2 | <2 | <2 | <2 | <2 |
| 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 |
|---|---|---|---|---|---|---|
| 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 | <2 | |
| Arsenic, total | <4 | <4 | <4 | <4 | <4 | |
| Barium, total | 335 | 331 | 332 | 331 | 361 | |
| Benzene | <1 | <1 | <1 | <1 | <1 | |
| Beryllium, total | <4 | <4 | <4 | <4 | <4 | |
| 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 | 2.1 | <.8 | <.8 | <.8 | <.8 | |
| 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 | <1.0 | <1.0 | <1.0 | <1.0 | 7.9 | <1.0 |
| Chromium, total | <8 | <8 | <8 | <8 | <8 | |
| Cis-1,2-dichloroethene | <1 | <1 | <1 | <1 | <1 | |
| Cis-1,3-dichloropropene | <1 | <1 | <1 | <1 | <1 | |
| Cobalt, total | <.4 | <.4 | <.4 | <.4 | <.4 | |
| Copper, total | <4.0 | <4.0 | <4.0 | <4.0 | <4.0 | |
| Dibromochloromethane | <1 | <1 | <1 | <1 | <1 | |
| Dibromomethane | <1 | <1 | <1 | <1 | <1 | |
| Ethylbenzene | <1 | <1 | <1 | <1 | <1 | |
| Lead, total | <4 | <4 | <4 | <4 | <4 | |
| Methyl iodide | <1 | <1 | <1 | <1 | <1 | |
| Methylene chloride | <5 | <5 | <5 | <5 | <5 | |
| Nickel, total | <4 | <4 | <4 | <4 | <4 | |
| Selenium, total | <4 | <4 | <4 | <4 | <4 | |
| Silver, total | <4 | <4 | <4 | <4 | <4 | |
| Solids, total suspended | | | | | | |
| Styrene | <1 | <1 | <1 | <1 | <1 | |
| Tetrachloroethene | <1 | <1 | <1 | <1 | <1 | |
| Thallium, total | <2 | <2 | <2 | <2 | <2 | |
| 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 | <20 | |
| Vinyl acetate | <5 | <5 | <5 | <5 | <5 | |
| Vinyl chloride | <1 | <1 | <1 | <1 | <1 | |
| Xylenes, total | <2 | <2 | <2 | <2 | <2 | |
| Zinc, total | <20 | <20 | <20 | <20 | <20 | |

* - 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 | | | | | | | | <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 | | <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 | | | | | | | | <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 | <5 | <5 | <5 | | <5 | <5 | <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 | 10/6/2021 | 4/14/2022 | 10/25/2022 | 4/19/2023 | 10/23/2023 | 4/9/2024 |
|---|---|---|---|---|---|---|
| (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) | <5 | <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-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 | <4 | <4 | | <4 | <4 | <4 | <4 |
| 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 | <4 | <4 | <4 | | <4 | <4 | <4 |
| 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 |
|---|---|---|---|---|---|---|
| Antimony, total | <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 |
| Azobenzene | | | | | | |
| Barium, total | 143.0 | 132.0 | 121.0 | 88.7 | 102.0 | 110.0 |
| Benzene | <1 | <1 | <1 | <1 | <1 | <1 |
| Benzo(a)anthracene | | | | | | |
| Benzo(a)pyrene | | | | | | |
| Benzo(b)fluoranthene | | | | | | |
| Benzo(g,h,i)perylene | | | | | | |
| Benzo(k)fluoranthene | | | | | | |
| Benzyl alcohol | | | | | | |
| Beryllium, total | <4 | <4 | <4 | <4 | <4 | <4 |
| 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 | <1.0 | <1.0 | 1.4 | <1.0 | <1.0 | <1.0 |
| Bromomethane | <1 | <1 | <1 | <1 | <1 | <1 |
| Butyl benzyl phthalate | | | | | | |
| Cadmium, total | <.8 | <.8 | .8 | <.8 | <.8 | <.8 |
| Carbon disulfide | <1 | <1 | <1 | <1 | <1 | <1 |
| Carbon tetrachloride | <1 | <1 | <1 | <1 | <1 | <1 |
| Chlordane | | | | | | |
| Chlorobenzene | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| Chlorobenzilate | | | | | | |
| Chloroethane | <1 | <1 | <1 | <1 | <1 | <1 |
| Chloroform | <1 | <1 | <1 | <1 | <1 | <1 |
| Chloromethane | <1 | <1 | <1 | <1 | <1 | <1 |
| Chloroprene | | | | | | |
| Chromium, total | <8 | <8 | <8 | <8 | <8 | <8 |
| Chrysene | | | | | | |
| Cis-1,2-dichloroethene | <1 | <1 | <1 | <1 | <1 | <1 |
| Cis-1,3-dichloropropene | <1 | <1 | <1 | <1 | <1 | <1 |
| Cobalt, total | <.4 | 1.5 | .7 | <.4 | <.4 | <.4 |
| Copper, total | <4.0 | <4.0 | <4.0 | 4.2 | <4.0 | <4.0 |
| 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-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 | <4 | <4 | | <4 | <4 | <4 | <4 |
| 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 | |
| Methapyrilene | | | | | | | | <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 | <4 | <2 | <2 | | <2 | <2 | <2 |
| 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 |
|---|---|---|---|---|---|---|
| Hexachlorobutadiene | | | | | | |
| Hexachlorocyclopentadiene | | | | | | |
| Hexachloroethane | | | | | | |
| Hexachloropropene | | | | | | |
| Indeno(1,2,3-cd)pyrene | | | | | | |
| Isobutanol | | | | | | |
| Isodrin | | | | | | |
| Isophorone | | | | | | |
| Isosafrole | | | | | | |
| Kepone | | | | | | |
| Lead, total | <4 | <4 | <4 | <4 | <4 | <4 |
| 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 | <4.0 | <4.0 | <4.0 | <4.0 | 5.4 | <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 |
| Silver, total | <4 | <4 | <4 | <4 | <4 | <4 |
| Solids, total suspended | | | | | | |
| Styrene | <1 | <1 | <1 | <1 | <1 | <1 |
| Sulfide, total | | | | | | |
| Tetrachloroethene | <1 | <1 | <1 | <1 | <1 | <1 |
| Thallium, total | <2 | <2 | <2 | <2 | <2 | <2 |
| 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 | <20 | <20 | <20 | <20 | <20 |
| 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 | <20.0 |

* - 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 |
|---|---|---|---|---|---|
| (3 4)-methylphenol | | | | | |
| 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 |
| 1,1-dichloropropene | | | | | |
| 1,2,3-trichloropropane | <1 | <1 | <1 | <1 | <1 |
| 1,2,4,5-tetrachlorobenzene | | | | | |
| 1,2,4-trichlorobenzene | | | | | |
| 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 |
| 1,2-dinitrobenzene | | | | | |
| 1,3,5-trinitrobenzene | | | | | |
| 1,3-dichlorobenzene | | | | | |
| 1,3-dichloropropane | | | | | |
| 1,3-dinitrobenzene | | | | | |
| 1,4-dichlorobenzene | <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 |
| 2-chloronaphthalene | | | | | |
| 2-chlorophenol | | | | | |
| 2-hexanone (mbk) | <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 |
| 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 |
| Acetonitrile | | | | | |
| Acetophenone | | | | | |
| Acrolein | | | | | |
| Acrylonitrile | <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 | <4 | <4 | | <4 | <4 | <4 | <4 |
| 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 | <4 | <4 | <4 | <4 | <4 | <4 | <4 |
| 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 |
|---|---|---|---|---|---|
| Antimony, total | <2 | <2 | <2 | <2 | <2 |
| 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 |
| Azobenzene | | | | | |
| Barium, total | 19.6 | 46.7 | 17.7 | 39.9 | 26.9 |
| Benzene | <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 | <4 | <4 | <4 | <4 |
| Beta-bhc | | | | | |
| Bis (2-chloroethoxy) methane | | | | | |
| Bis(2-chloroethyl) ether | | | | | |
| Bis(2-ethylhexyl) phthalate | | | | | |
| Bis[2-chloroisopropyl]ether | | | | | |
| Bromochloromethane | <1 | <1 | <1 | <1 | <1 |
| Bromodichloromethane | <1 | <1 | <1 | <1 | <1 |
| Bromoform | <1 | <1 | <1 | <1 | <1 |
| Bromomethane | <1 | <1 | <1 | <1 | <1 |
| Butyl benzyl phthalate | | | | | |
| Cadmium, total | 3.4 | <.8 | <.8 | 1.5 | <.8 |
| Carbon disulfide | <1 | <1 | <1 | <1 | <1 |
| Carbon tetrachloride | <1 | <1 | <1 | <1 | <1 |
| Chlordane | | | | | |
| Chlorobenzene | <1 | <1 | <1 | <1 | <1 |
| Chlorobenzilate | | | | | |
| Chloroethane | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| Chloroform | <1 | <1 | <1 | <1 | <1 |
| Chloromethane | <1 | <1 | <1 | <1 | <1 |
| Chloroprene | | | | | |
| Chromium, total | <8 | <8 | <8 | <8 | <8 |
| Chrysene | | | | | |
| Cis-1,2-dichloroethene | <1 | <1 | <1 | <1 | <1 |
| Cis-1,3-dichloropropene | <1 | <1 | <1 | <1 | <1 |
| Cobalt, total | 56.6 | 1.9 | 8.4 | 586.0 | 27.6 |
| Copper, total | 5.5 | <4.0 | <4.0 | <4.0 | 6.3 |
| Cyanide, total | | | | | |
| Delta-bhc | | | | | |
| Diallate | | | | | |
| Dibenzo(a,h)anthracene | | | | | |
| Dibenzofuran | | | | | |
| Dibromochloromethane | <1 | <1 | <1 | <1 | <1 |
| Dibromomethane | <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 |
| 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 | <4 | <4 | | <4 | <4 | <4 | <4 |
| 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 | 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 | <4 | <2 | <2 | <2 | <2 | <2 | <2 |
| 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 | <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 | | <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 |
|---|---|---|---|---|---|
| Hexachlorobutadiene | | | | | |
| Hexachlorocyclopentadiene | | | | | |
| Hexachloroethane | | | | | |
| Hexachloropropene | | | | | |
| Indeno(1,2,3-cd)pyrene | | | | | |
| Isobutanol | | | | | |
| Isodrin | | | | | |
| Isophorone | | | | | |
| Isosafrole | | | | | |
| Kepone | | | | | |
| Lead, total | <4 | <4 | <4 | <4 | <4 |
| Mercury, total | | | | | |
| Methacrylonitrile | | | | | |
| Methapyrilene | | | | | |
| Methoxychlor | | | | | |
| Methyl iodide | <1 | <1 | <1 | <1 | <1 |
| Methyl methacrylate | | | | | |
| Methyl methanesulfonate | | | | | |
| Methyl parathion | | | | | |
| Methylene chloride | <5 | <5 | <5 | <5 | <5 |
| Naphthalene | | | | | |
| Nickel, total | 77.7 | <4.0 | 34.6 | 292.0 | 55.6 |
| 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 |
| Silver, total | <4 | <4 | <4 | <4 | <4 |
| Solids, total suspended | | | | | |
| Styrene | <1 | <1 | <1 | <1 | <1 |
| Sulfide, total | | | | | |
| Tetrachloroethene | <1 | <1 | <1 | <1 | <1 |
| Thallium, total | <2 | <2 | <2 | <2 | <2 |
| Thionazin | | | | | |
| Tin, total | | | | | |
| Toluene | <1 | <1 | <1 | <1 | <1 |
| Toxaphene | | | | | |
| 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 | <20 |
| Vinyl acetate | <5 | <5 | <5 | <5 | <5 |
| Vinyl chloride | <1 | <1 | <1 | <1 | <1 |
| Xylenes, total | <2 | <2 | <2 | <2 | <2 |
| Zinc, total | 35.7 | <20.0 | <20.0 | 28.1 | 21.1 |

* - 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 |
|---|---|---|---|
| (3 4)-methylphenol | | | <8 |
| 1,1,1,2-tetrachloroethane | <1 | <1 | <1 |
| 1,1,1-trichloroethane | <1 | <1 | <1 |
| 1,1,2,2-tetrachloroethane | <1 | <1 | <1 |
| 1,1,2-trichloroethane | <1 | <1 | <1 |
| 1,1-dichloroethane | 1.3 | <1.0 | 1.1 |
| 1,1-dichloroethene | <1 | <1 | <1 |
| 1,1-dichloropropene | | | <1 |
| 1,2,3-trichloropropane | <1 | <1 | <1 |
| 1,2,4,5-tetrachlorobenzene | | | <8 |
| 1,2,4-trichlorobenzene | | | <1 |
| 1,2-dibromo-3-chloropropane | <5 | <5 | <1 |
| 1,2-dibromoethane | <1 | <1 | <1 |
| 1,2-dichlorobenzene | <1 | <1 | <1 |
| 1,2-dichloroethane | <1 | <1 | <1 |
| 1,2-dichloropropane | <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 |
| 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 |
| 2-chloronaphthalene | | | <8 |
| 2-chlorophenol | | | <8 |
| 2-hexanone (mbk) | <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 |
| 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 |
| Acetonitrile | | | <10 |
| Acetophenone | | | <8 |
| Acrolein | | | <10 |
| Acrylonitrile | <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 | <4 | <4 | <4 | <4 | <4 | <4 | <4 |
| 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 | <4 | <4 | <4 | <4 | <4 | <4 | <4 | <4 |
| 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 |
|---|---|---|---|
| Antimony, total | <2 | <2 | <2 |
| 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 |
| Azobenzene | | | <8 |
| Barium, total | 537 | 842 | 199 |
| Benzene | 2.3 | 2.6 | 3.4 |
| 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 | <4 | <4 |
| 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 |
| Bromodichloromethane | <1 | <1 | <1 |
| Bromoform | <1 | <1 | <1 |
| Bromomethane | <1 | <1 | <1 |
| Butyl benzyl phthalate | | | <8 |
| Cadmium, total | <.8 | <.8 | <.8 |
| Carbon disulfide | <1 | <1 | <1 |
| Carbon tetrachloride | <1 | <1 | <1 |
| Chlordane | | | <.1 |
| Chlorobenzene | 5.1 | 6.5 | 7.6 |
| Chlorobenzilate | | | <8 |
| Chloroethane | 1.8 | 1.8 | 1.4 |
| Chloroform | <1 | <1 | <1 |
| Chloromethane | <1 | <1 | <1 |
| Chloroprene | | | <1 |
| Chromium, total | <8 | <8 | <8 |
| Chrysene | | | <8 |
| Cis-1,2-dichloroethene | <1 | <1 | <1 |
| Cis-1,3-dichloropropene | <1 | <1 | <1 |
| Cobalt, total | 91.4 | 18.0 | 1460.0 |
| Copper, total | <4.0 | <4.0 | 4.2 |
| Cyanide, total | | | <.005 |
| Delta-bhc | | | <.05 |
| Diallate | | | <8 |
| Dibenzo(a,h)anthracene | | | <8 |
| Dibenzofuran | | | <8 |
| Dibromochloromethane | <1 | <1 | <1 |
| Dibromomethane | <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 |
| 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 | <4 | <4 | <4 | <4 | <4 | <4 | <4 |
| Mercury, total | ug/L | | | | | | | | |
| Methacrylonitrile | ug/L | | | | | | | | |
| Methapyrilene | ug/L | | | | | | | | |
| Methoxychlor | ug/L | | | | | | | | |
| Methyl iodide | ug/L | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Methyl methacrylate | ug/L | | | | | | | | |
| Methyl methanesulfonate | ug/L | | | | | | | | |
| Methyl parathion | ug/L | | | | | | | | |
| Methylene chloride | ug/L | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Naphthalene | ug/L | | | | | | | | |
| Nickel, total | ug/L | <4.0 | <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 | <4 | <4 | <4 | <4 | <4 | <4 | <4 |
| 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 | <20 | <20 | <20 | <20 | <20 | <20 | <20 |
| 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 | <4 | <4 | <4 | <4 | <4 | <4 | <4 | <4 |
| Mercury, total | | <.5 | | | | | | | |
| Methacrylonitrile | | <1 | | | | | | | |
| Methapyrilene | | <8 | | | | | | | |
| Methoxychlor | | <.05 | | | | | | | |
| Methyl iodide | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Methyl methacrylate | | <1 | | | | | | | |
| Methyl methanesulfonate | | <8 | | | | | | | |
| Methyl parathion | | <.4 | | | | | | | |
| Methylene chloride | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Naphthalene | | <8 | | | | | | | |
| Nickel, total | <4.0 | <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 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 |
| 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 | <20 | <20 | <20 | <20 | <20 | <20 | <20 | <20 |
| 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 |
|---|---|---|---|
| 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 |
| Mercury, total | | | <.5 |
| Methacrylonitrile | | | <1 |
| Methapyrilene | | | <8 |
| Methoxychlor | | | <.05 |
| Methyl iodide | <1 | <1 | <2 |
| Methyl methacrylate | | | <1 |
| Methyl methanesulfonate | | | <8 |
| Methyl parathion | | | <.4 |
| Methylene chloride | <5 | <5 | <5 |
| Naphthalene | | | <8 |
| Nickel, total | 21.2 | 9.0 | 456.0 |
| 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 |
| Silver, total | <4 | <4 | <4 |
| Solids, total suspended | | | |
| Styrene | <1 | <1 | <1 |
| Sulfide, total | | | <.3 |
| Tetrachloroethene | <1 | <1 | <1 |
| Thallium, total | <2 | <2 | <2 |
| Thionazin | | | <.4 |
| Tin, total | | | <20 |
| Toluene | <1 | <1 | <1 |
| Toxaphene | | | <.2 |
| Trans-1,2-dichloroethene | <1 | <1 | <1 |
| Trans-1,3-dichloropropene | <1 | <1 | <1 |
| Trans-1,4-dichloro-2-butene | <5 | <5 | <5 |
| Trichloroethene | <1 | <1 | <1 |
| Trichlorofluoromethane | <1 | <1 | <1 |
| Vanadium, total | <20 | <20 | <20 |
| Vinyl acetate | <5 | <5 | <5 |
| Vinyl chloride | <1.0 | <1.0 | <1.0 |
| Xylenes, total | <2.0 | <2.0 | <2.0 |
| Zinc, total | <20.0 | 31.5 | 21.4 |

* - 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 | <2 | <2 | <2 | <2 | <2 | <2 | <2 |
| 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 | <4 | <4 | <4 | <4 | <4 | <4 | <4 |
| Bromochloromethane | ug/L | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Bromodichloromethane | ug/L | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Bromoform | ug/L | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Bromomethane | ug/L | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Cadmium, total | ug/L | <.8 | <.8 | <.8 | <.8 | <.8 | <.8 | <.8 | <.8 |
| Carbon disulfide | ug/L | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Carbon tetrachloride | ug/L | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Chlorobenzene | ug/L | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Chloroethane | ug/L | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Chloroform | ug/L | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Chloromethane | ug/L | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Chromium, total | ug/L | <8 | <8 | <8 | <8 | <8 | <8 | <8 | <8 |
| Cis-1,2-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 | <4 | <4 | <4 | <4 | <4 | <4 | <4 |
| 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 | 10 | <8 | <8 | <8 | <8 | <8 | <8 |

* - 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 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 |
| 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 | <4 | <4 | <4 | <4 | <4 | <4 | <4 | <4 |
| 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 | <8 | <8 | <8 | <8 | <8 | <8 | <8 | <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 | <.8 | <.8 | <.8 | <.8 | <.8 | <.4 | <.4 | <.4 | <.4 |
| 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 | <4 | <4 | <2 | <2 | <2 | <2 | <2 | <2 |
| 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 | <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-2A

| Constituents | 4/14/2022 | 10/25/2022 | 4/19/2023 | 10/23/2023 | 4/9/2024 |
|---|---|---|---|---|---|
| 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 | <2 |
| Arsenic, total | <4 | <4 | <4 | <4 | <4 |
| Barium, total | 58.7 | 64.8 | 61.1 | 56.6 | 58.4 |
| Benzene | <1 | <1 | <1 | <1 | <1 |
| Beryllium, total | <4 | <4 | <4 | <4 | <4 |
| 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 | <.8 |
| 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 | <8 | <8 | <8 | <8 |
| Cis-1,2-dichloroethene | <1 | <1 | <1 | <1 | <1 |
| Cis-1,3-dichloropropene | <1 | <1 | <1 | <1 | <1 |
| Cobalt, total | <.4 | <.4 | <.4 | <.4 | <.4 |
| Copper, total | <4.0 | <4.0 | 12.6 | <4.0 | <4.0 |
| Dibromochloromethane | <1 | <1 | <1 | <1 | <1 |
| Dibromomethane | <1 | <1 | <1 | <1 | <1 |
| Ethylbenzene | <1 | <1 | <1 | <1 | <1 |
| Lead, total | <4 | <4 | <4 | <4 | <4 |
| Methyl iodide | <1 | <1 | <1 | <1 | <1 |
| Methylene chloride | <5 | <5 | <5 | <5 | <5 |
| Nickel, total | <4.0 | <4.0 | <4.0 | <4.0 | <4.0 |
| Selenium, total | <4 | <4 | <4 | <4 | <4 |
| Silver, total | <4 | <4 | <4 | <4 | <4 |
| Solids, total suspended | | | | | |
| Styrene | <1 | <1 | <1 | <1 | <1 |
| Tetrachloroethene | <1 | <1 | <1 | <1 | <1 |
| Thallium, total | <2 | <2 | <2 | <2 | <2 |
| 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 | <20 |
| Vinyl acetate | <5 | <5 | <5 | <5 | <5 |
| Vinyl chloride | <1 | <1 | <1 | <1 | <1 |
| Xylenes, total | <2 | <2 | <2 | <2 | <2 |
| Zinc, total | <20 | <20 | <20 | <20 | <20 |

* - 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 | | <4 | <4 | <4 | <4 | <4 | <4 |
| Bromochloromethane | ug/L | <1 | | <1 | <1 | <1 | <1 | <1 | <1 |
| Bromodichloromethane | ug/L | <1 | | <1 | <1 | <1 | <1 | <1 | <1 |
| Bromoform | ug/L | <1 | | <1 | <1 | <1 | <1 | <1 | <1 |
| Bromomethane | ug/L | <1 | | <1 | <1 | <1 | <1 | <1 | <1 |
| Cadmium, total | ug/L | <.8 | | <.8 | <.8 | <.8 | <.8 | <.8 | <.8 |
| Carbon disulfide | ug/L | <1 | | <1 | <1 | <1 | <1 | <1 | <1 |
| Carbon tetrachloride | ug/L | <1 | | <1 | <1 | <1 | <1 | <1 | <1 |
| Chlorobenzene | ug/L | <1 | | <1 | <1 | <1 | <1 | <1 | <1 |
| Chloroethane | ug/L | <1 | | <1 | <1 | <1 | <1 | <1 | <1 |
| Chloroform | ug/L | <1 | | <1 | <1 | <1 | <1 | <1 | <1 |
| Chloromethane | ug/L | <1 | | <1 | <1 | <1 | <1 | <1 | <1 |
| Chromium, total | ug/L | <8 | | <8 | <8 | <8 | <8 | <8 | <8 |
| Cis-1,2-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 | | <4 | <4 | <4 | <4 | <4 | <4 |
| 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 | <4 | <4 | <4 | <4 | <4 | <4 | <4 | <4 |
| 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 | <8 | <8 | <8 | <8 | <8 | <8 | <8 | <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 | <.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 | <4 | <2 | <2 | <2 | <2 | <2 | <2 | <2 |
| 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 |
|---|---|---|---|---|---|
| 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 | | <1 | <1 | <1 |
| 1,1-dichloroethene | <1 | | <1 | <1 | <1 |
| 1,2,3-trichloropropane | <1 | | <1 | <1 | <1 |
| 1,2-dibromo-3-chloropropane | <5 | | <5 | <5 | <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 |
| 1,4-dichlorobenzene | <1 | | <1 | <1 | <1 |
| 2-butanone (mek) | <10 | | <10 | <10 | <10 |
| 2-hexanone (mbk) | <5 | | <5 | <5 | <5 |
| 4-methyl-2-pentanone (mibk) | <5 | | <5 | <5 | <5 |
| Acetone | <10 | | <10 | <10 | <10 |
| Acrylonitrile | <5 | | <5 | <5 | <5 |
| Antimony, total | <2 | | <2 | <2 | <2 |
| Arsenic, total | <4 | | <4 | <4 | <4 |
| Barium, total | 33.0 | | 50.3 | 28.4 | 47.1 |
| Benzene | <1 | | <1 | <1 | <1 |
| Beryllium, total | <4 | | <4 | <4 | <4 |
| Bromochloromethane | <1 | | <1 | <1 | <1 |
| Bromodichloromethane | <1 | | <1 | <1 | <1 |
| Bromoform | <1 | | <1 | <1 | <1 |
| Bromomethane | <1 | | <1 | <1 | <1 |
| Cadmium, total | <.8 | | <.8 | <.8 | <.8 |
| Carbon disulfide | <1 | | <1 | <1 | <1 |
| Carbon tetrachloride | <1 | | <1 | <1 | <1 |
| Chlorobenzene | <1 | | <1 | <1 | <1 |
| Chloroethane | <1 | | <1 | <1 | <1 |
| Chloroform | <1 | | <1 | <1 | <1 |
| Chloromethane | <1 | | <1 | <1 | <1 |
| Chromium, total | <8 | | <8 | <8 | <8 |
| Cis-1,2-dichloroethene | <1 | | <1 | <1 | <1 |
| Cis-1,3-dichloropropene | <1 | | <1 | <1 | <1 |
| Cobalt, total | 1.6 | <2.0 | <.4 | <.4 | <.4 |
| Copper, total | <4 | | <4 | <4 | <4 |
| Dibromochloromethane | <1 | | <1 | <1 | <1 |
| Dibromomethane | <1 | | <1 | <1 | <1 |
| Ethylbenzene | <1 | | <1 | <1 | <1 |
| Lead, total | <4 | | <4 | <4 | <4 |
| Methyl iodide | <1 | | <1 | <1 | <1 |
| Methylene chloride | <5 | | <5 | <5 | <5 |
| Nickel, total | <4.0 | | <4.0 | <4.0 | <4.0 |
| Selenium, total | <4 | | <4 | <4 | <4 |
| Silver, total | <4 | | <4 | <4 | <4 |
| Solids, total suspended | | | | | |
| Styrene | <1 | | <1 | <1 | <1 |
| Tetrachloroethene | <1 | | <1 | <1 | <1 |
| Thallium, total | <2 | | <2 | <2 | <2 |
| Toluene | <1 | | <1 | <1 | <1 |
| 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 | | <20 | <20 | <20 |
| Vinyl acetate | <5 | | <5 | <5 | <5 |
| Vinyl chloride | <1 | | <1 | <1 | <1 |
| Xylenes, total | <2 | | <2 | <2 | <2 |
| Zinc, total | <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 | 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-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 | | | | | | | | | |
| 1,2,3-trichloropropane | <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 | |
| 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 | | | | | | | | | |
| 1,3,5-trinitrobenzene | | | | | | | | | |
| 1,3-dichlorobenzene | | | | | | | | | |
| 1,3-dichloropropane | | | | | | | | | |
| 1,3-dinitrobenzene | | | | | | | | | |
| 1,4-dichlorobenzene | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | |
| 1,4-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 | |
| 2-chloronaphthalene | | | | | | | | | |
| 2-chlorophenol | | | | | | | | | |
| 2-hexanone (mbk) | <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 | |
| 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 | |
| Acetonitrile | | | | | | | | | |
| Acetophenone | | | | | | | | | |
| Acrolein | | | | | | | | | |
| Acrylonitrile | <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 |
|---|---|---|---|---|---|---|---|---|
| (3 4)-methylphenol | | | | <8 | | | | |
| 1,1,1,2-tetrachloroethane | <1 | <1 | | <1 | | <1 | <1 | <1 |
| 1,1,1-trichloroethane | <1 | <1 | | <1 | | <1 | <1 | <1 |
| 1,1,2,2-tetrachloroethane | <1 | <1 | | <1 | | <1 | <1 | <1 |
| 1,1,2-trichloroethane | <1 | <1 | | <1 | | <1 | <1 | <1 |
| 1,1-dichloroethane | <1 | <1 | | <1 | | <1 | <1 | <1 |
| 1,1-dichloroethene | <1 | <1 | | <1 | | <1 | <1 | <1 |
| 1,1-dichloropropene | | | | <1 | | | | |
| 1,2,3-trichloropropane | <1 | <1 | | <1 | | <1 | <1 | <1 |
| 1,2,4,5-tetrachlorobenzene | | | | <8 | | | | |
| 1,2,4-trichlorobenzene | | | | <1 | | | | |
| 1,2-dibromo-3-chloropropane | <5 | <5 | | <1 | | <5 | <5 | <5 |
| 1,2-dibromoethane | <1 | <1 | | <1 | | <1 | <1 | <1 |
| 1,2-dichlorobenzene | <1 | <1 | | <1 | | <1 | <1 | <1 |
| 1,2-dichloroethane | <1 | <1 | | <1 | | <1 | <1 | <1 |
| 1,2-dichloropropane | <1 | <1 | | <1 | | <1 | <1 | <1 |
| 1,2-dinitrobenzene | | | | <8 | | | | |
| 1,3,5-trinitrobenzene | | | | <8 | | | | |
| 1,3-dichlorobenzene | | | | <1 | | | | |
| 1,3-dichloropropane | | | | <1 | | | | |
| 1,3-dinitrobenzene | | | | <8 | | | | |
| 1,4-dichlorobenzene | <1 | <1 | | <1 | | <1 | <1 | <1 |
| 1,4-naphthoquinone | | | | <8 | | | | |
| 1,4-phenylenediamine | | | | <8 | | | | |
| 1-naphthylamine | | | | <8 | | | | |
| 2,2-dichloropropane | | | | <1 | | | | |
| 2,3,4,6-tetrachlorophenol | | | | <8 | | | | |
| 2,4,5-t | | | | <.5 | | | | |
| 2,4,5-tp (silvex) | | | | <.5 | | | | |
| 2,4,5-trichlorophenol | | | | <8 | | | | |
| 2,4,6-trichlorophenol | | | | <8 | | | | |
| 2,4-d | | | | <2 | | | | |
| 2,4-dichlorophenol | | | | <8 | | | | |
| 2,4-dimethylphenol | | | | <8 | | | | |
| 2,4-dinitrophenol | | | | <8 | | | | |
| 2,4-dinitrotoluene | | | | <8 | | | | |
| 2,6-dichlorophenol | | | | <8 | | | | |
| 2,6-dinitrotoluene | | | | <8 | | | | |
| 2-acetylaminofluorene | | | | <8 | | | | |
| 2-butanone (mek) | <5 | <10 | | <5 | | <10 | <10 | <10 |
| 2-chloronaphthalene | | | | <8 | | | | |
| 2-chlorophenol | | | | <8 | | | | |
| 2-hexanone (mbk) | <5 | <5 | | <5 | | <5 | <5 | <5 |
| 2-methylnaphthalene | | | | <8 | | | | |
| 2-methylphenol | | | | <8 | | | | |
| 2-naphthylamine | | | | <8 | | | | |
| 2-nitroaniline | | | | <8 | | | | |
| 2-nitrophenol | | | | <8 | | | | |
| 3,3´-dichlorobenzidine | | | | <8 | | | | |
| 3,3-dimethylbenzidine | | | | <8 | | | | |
| 3-methylcholanthrene | | | | <8 | | | | |
| 3-nitroaniline | | | | <8 | | | | |
| 4,4´-ddd | | | | <.05 | | | | |
| 4,4´-dde | | | | <.05 | | | | |
| 4,4´-ddt | | | | <.05 | | | | |
| 4,6-dinitro-2-methylphenol | | | | <8 | | | | |
| 4-aminobiphenyl | | | | <8 | | | | |
| 4-bromophenyl phenyl ether | | | | <8 | | | | |
| 4-chloro-3-methylphenol | | | | <8 | | | | |
| 4-chloroaniline | | | | <8 | | | | |
| 4-chlorophenyl phenyl ether | | | | <8 | | | | |
| 4-methyl-2-pentanone (mibk) | <5 | <5 | | <5 | | <5 | <5 | <5 |
| 4-nitroaniline | | | | <8 | | | | |
| 4-nitrophenol | | | | <8 | | | | |
| 5-nitro-o-toluidine | | | | <8 | | | | |
| 7,12-dimethylbenz [a] anthracene | | | | <8 | | | | |
| Acenaphthene | | | | <8 | | | | |
| Acenaphthylene | | | | <8 | | | | |
| Acetone | <10.0 | <10.0 | | <10.0 | | <10.0 | <10.0 | <10.0 |
| Acetonitrile | | | | <10 | | | | |
| Acetophenone | | | | <8 | | | | |
| Acrolein | | | | <10 | | | | |
| Acrylonitrile | <5 | <5 | | <5 | | <5 | <5 | <5 |
| Aldrin | | | | <.05 | | | | |
| Allyl chloride | | | | <1 | | | | |
| Alpha-bhc | | | | <.05 | | | | |
| Anthracene | | | | <8 | | | | |

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

## Table 9

## Analytical Data Summary for MW-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 | | <4 | <4 | | <4 | <4 | <4 |
| 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 | | <8 | <8 | | <8 | <8 | <8 |
| 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 | <4 | <4 | <4 | <4 | <4 | <4 | <4 | |
| 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 | <8 | <8 | <8 | <8 | <8 | <8 | <8 | |
| 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 |
|---|---|---|---|---|---|---|---|---|
| Antimony, total | <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 |
| Azobenzene | | | | <8 | | | | |
| Barium, total | 105 | 156 | | 103 | | 106 | 105 | 150 |
| Benzene | <1 | <1 | | <1 | | <1 | <1 | <1 |
| Benzo(a)anthracene | | | | <8 | | | | |
| Benzo(a)pyrene | | | | <8 | | | | |
| Benzo(b)fluoranthene | | | | <8 | | | | |
| Benzo(g,h,i)perylene | | | | <8 | | | | |
| Benzo(k)fluoranthene | | | | <8 | | | | |
| Benzyl alcohol | | | | <8 | | | | |
| Beryllium, total | <4 | <4 | | <4 | | <4 | <4 | <4 |
| 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 |
| Bromodichloromethane | <1 | <1 | | <1 | | <1 | <1 | <1 |
| Bromoform | <1 | <1 | | <1 | | <1 | <1 | <1 |
| Bromomethane | <1 | <1 | | <1 | | <1 | <1 | <1 |
| Butyl benzyl phthalate | | | | <8 | | | | |
| Cadmium, total | <.8 | <.8 | | <.8 | | <.8 | <.8 | <.8 |
| Carbon disulfide | <1.0 | <1.0 | | <1.0 | | <1.0 | <1.0 | <1.0 |
| Carbon tetrachloride | <1 | <1 | | <1 | | <1 | <1 | <1 |
| Chlordane | | | | <.1 | | | | |
| Chlorobenzene | <1 | <1 | | <1 | | <1 | <1 | <1 |
| Chlorobenzilate | | | | <8 | | | | |
| Chloroethane | <1 | <1 | | <1 | | <1 | <1 | <1 |
| Chloroform | <1 | <1 | | <1 | | <1 | <1 | <1 |
| Chloromethane | <1 | <1 | | <1 | | <1 | <1 | <1 |
| Chloroprene | | | | <1 | | | | |
| Chromium, total | <8 | <8 | | <8 | | <8 | <8 | <8 |
| Chrysene | | | | <8 | | | | |
| Cis-1,2-dichloroethene | <1 | <1 | | <1 | | <1 | <1 | <1 |
| Cis-1,3-dichloropropene | <1 | <1 | | <1 | | <1 | <1 | <1 |
| Cobalt, total | <.4 | 2.1 | 1.8 | <.4 | | <.4 | <.4 | <.4 |
| Copper, total | <4.0 | <4.0 | | <4.0 | | 9.2 | <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 |
| Dibromomethane | <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 |
| 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 | | <4 | <4 | | <4 | <4 | <4 |
| 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 | | <20 | <20 | | <20 | <20 | <20 |
| 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 | |
| Mercury, total | | | | | | | | | |
| Methacrylonitrile | | | | | | | | | |
| Methapyrilene | | | | | | | | | |
| Methoxychlor | | | | | | | | | |
| Methyl iodide | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | |
| Methyl methacrylate | | | | | | | | | |
| Methyl methanesulfonate | | | | | | | | | |
| Methyl parathion | | | | | | | | | |
| Methylene chloride | <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 | |
| 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 | |
| Silver, total | <4 | <4 | <4 | <4 | <4 | <4 | <4 | <4 | |
| Solids, total suspended | | | | | | | | | |
| Styrene | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | |
| Sulfide, total | | | | | | | | | |
| Tetrachloroethene | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | |
| Thallium, total | <4 | <4 | <4 | <2 | <2 | <2 | <2 | <2 | |
| Thionazin | | | | | | | | | |
| Tin, total | | | | | | | | | |
| Toluene | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | |
| Toxaphene | | | | | | | | | |
| 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 | |
| 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 | 8.1 | <20.0 | <20.0 | <8.0 | <20.0 | <20.0 | <20.0 | <20.0 | |

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

## Table 9

## Analytical Data Summary for MW-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 |
|---|---|---|---|---|---|---|---|---|
| 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 |
| Mercury, total | | | | <.5 | | | | |
| Methacrylonitrile | | | | <1 | | | | |
| Methapyrilene | | | | <8 | | | | |
| Methoxychlor | | | | <.05 | | | | |
| Methyl iodide | <1 | <1 | | <2 | | <1 | <1 | <1 |
| Methyl methacrylate | | | | <1 | | | | |
| Methyl methanesulfonate | | | | <8 | | | | |
| Methyl parathion | | | | <.4 | | | | |
| Methylene chloride | <5 | <5 | | <5 | | <5 | <5 | <5 |
| Naphthalene | | | | <8 | | | | |
| Nickel, total | <4.0 | <4.0 | | <4.0 | | <4.0 | <4.0 | <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 |
| Silver, total | <4 | <4 | | <4 | | <4 | <4 | <4 |
| Solids, total suspended | | | | | | | | |
| Styrene | <1 | <1 | | <1 | | <1 | <1 | <1 |
| Sulfide, total | | | | <.1 | | | | |
| Tetrachloroethene | <1 | <1 | | <1 | | <1 | <1 | <1 |
| Thallium, total | <2 | <2 | | <2 | | <2 | <2 | <2 |
| Thionazin | | | | <.4 | | | | |
| Tin, total | | | | <20 | | | | |
| Toluene | <1 | <1 | | <1 | | <1 | <1 | <1 |
| Toxaphene | | | | <.2 | | | | |
| 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 | <20 |
| 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 | <20.0 |

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

## Table 9

### Analytical Data Summary for SW-3A

| Constituents | Units | 10/15/2014 | 4/13/2015 | 7/21/2015 |
|---|---|---|---|---|
| 1,1,1,2-tetrachloroethane | ug/L | <1 | <1 | |
| 1,1,1-trichloroethane | ug/L | <1 | <1 | |
| 1,1,2,2-tetrachloroethane | ug/L | <1 | <1 | |
| 1,1,2-trichloroethane | ug/L | <1 | <1 | |
| 1,1-dichloroethane | ug/L | <1 | <1 | |
| 1,1-dichloroethene | ug/L | <1 | <1 | |
| 1,2,3-trichloropropane | ug/L | <1 | <1 | |
| 1,2-dibromo-3-chloropropane | ug/L | <1 | <1 | |
| 1,2-dibromoethane | ug/L | <1 | <1 | |
| 1,2-dichlorobenzene | ug/L | <1 | <1 | |
| 1,2-dichloroethane | ug/L | <1 | <1 | |
| 1,2-dichloropropane | ug/L | <1 | <1 | |
| 1,4-dichlorobenzene | ug/L | <1 | <1 | |
| 2-butanone (mek) | ug/L | <5 | <5 | |
| 2-hexanone (mbk) | ug/L | <5 | <5 | |
| 4-methyl-2-pentanone (mibk) | ug/L | <5 | <5 | |
| Acetone | ug/L | <10 | <10 | |
| Acrylonitrile | ug/L | <5 | <5 | |
| Antimony, total | ug/L | <2 | <2 | |
| Arsenic, total | ug/L | <4 | <4 | |
| Barium, total | ug/L | 171 | 131 | |
| Benzene | ug/L | <1 | <1 | |
| Beryllium, total | ug/L | <4 | <4 | |
| Bis(2-ethylhexyl) phthalate | ug/L | <10 | <10 | |
| Bromochloromethane | ug/L | <1 | <1 | |
| Bromodichloromethane | ug/L | <1 | <1 | |
| Bromoform | ug/L | <1 | <1 | |
| Bromomethane | ug/L | <1 | <1 | |
| Cadmium, total | ug/L | <.8 | <.8 | |
| Carbon disulfide | ug/L | <1 | <1 | |
| Carbon tetrachloride | ug/L | <1 | <1 | |
| Chlorobenzene | ug/L | <1 | <1 | |
| Chloroethane | ug/L | <1 | <1 | |
| Chloroform | ug/L | <1 | <1 | |
| Chloromethane | ug/L | <1 | <1 | |
| Chromium, total | ug/L | <8 | <8 | |
| Cis-1,2-dichloroethene | ug/L | <1 | <1 | |
| Cis-1,3-dichloropropene | ug/L | <1 | <1 | |
| Cobalt, total | ug/L | <.8 | <.8 | |
| Copper, total | ug/L | <4 | <4 | |
| Dibromochloromethane | ug/L | <1 | <1 | |
| Dibromomethane | ug/L | <1 | <1 | |
| Ethylbenzene | ug/L | <1 | <1 | |
| Lead, total | ug/L | <4.0 | 4.6 | <4.0 |
| Methyl iodide | ug/L | <1 | <1 | |
| Methylene chloride | ug/L | <5 | <5 | |
| Nickel, total | ug/L | <4 | <4 | |
| Selenium, total | ug/L | <4 | <4 | |
| Silver, total | ug/L | <4 | <4 | |
| Solids, total suspended | mg/L | <2 | <2 | |
| Styrene | ug/L | <1 | <1 | |
| Tetrachloroethene | ug/L | <1 | <1 | |
| Thallium, total | ug/L | <4 | <4 | |
| Toluene | ug/L | <1 | <1 | |
| Trans-1,2-dichloroethene | ug/L | <1 | <1 | |
| Trans-1,3-dichloropropene | ug/L | <1 | <1 | |
| Trans-1,4-dichloro-2-butene | ug/L | <5 | <5 | |
| Trichloroethene | ug/L | <1 | <1 | |
| Trichlorofluoromethane | ug/L | <1 | <1 | |
| Vanadium, total | ug/L | <20 | <20 | |
| Vinyl acetate | ug/L | <5 | <5 | |
| Vinyl chloride | ug/L | <1 | <1 | |
| Xylenes, total | ug/L | <2 | <2 | |
| Zinc, total | ug/L | <20 | <8 | |

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

## Table 9

### Analytical Data Summary for SW-4

| Constituents | Units | 4/13/2015 |
|---|---|---|
| 1,1,1,2-tetrachloroethane | ug/L | <1 |
| 1,1,1-trichloroethane | ug/L | <1 |
| 1,1,2,2-tetrachloroethane | ug/L | <1 |
| 1,1,2-trichloroethane | ug/L | <1 |
| 1,1-dichloroethane | ug/L | <1 |
| 1,1-dichloroethene | ug/L | <1 |
| 1,2,3-trichloropropane | ug/L | <1 |
| 1,2-dibromo-3-chloropropane | ug/L | <1 |
| 1,2-dibromoethane | ug/L | <1 |
| 1,2-dichlorobenzene | ug/L | <1 |
| 1,2-dichloroethane | ug/L | <1 |
| 1,2-dichloropropane | ug/L | <1 |
| 1,4-dichlorobenzene | ug/L | <1 |
| 2-butanone (mek) | ug/L | <5 |
| 2-hexanone (mbk) | ug/L | <5 |
| 4-methyl-2-pentanone (mibk) | ug/L | <5 |
| Acetone | ug/L | <10 |
| Acrylonitrile | ug/L | <5 |
| Antimony, total | ug/L | <2 |
| Arsenic, total | ug/L | <4 |
| Barium, total | ug/L | 144 |
| Benzene | ug/L | <1 |
| Beryllium, total | ug/L | <4 |
| Bromochloromethane | ug/L | <1 |
| Bromodichloromethane | ug/L | <1 |
| Bromoform | ug/L | <1 |
| Bromomethane | ug/L | <1 |
| Cadmium, total | ug/L | <.8 |
| Carbon disulfide | ug/L | <1 |
| Carbon tetrachloride | ug/L | <1 |
| Chlorobenzene | ug/L | <1 |
| Chloroethane | ug/L | <1 |
| Chloroform | ug/L | <1 |
| Chloromethane | ug/L | <1 |
| Chromium, total | ug/L | <8 |
| Cis-1,2-dichloroethene | ug/L | <1 |
| Cis-1,3-dichloropropene | ug/L | <1 |
| Cobalt, total | ug/L | <.8 |
| Copper, total | ug/L | <4 |
| Dibromochloromethane | ug/L | <1 |
| Dibromomethane | ug/L | <1 |
| Ethylbenzene | ug/L | <1 |
| Lead, total | ug/L | <4 |
| Methyl iodide | ug/L | <1 |
| Methylene chloride | ug/L | <5 |
| Nickel, total | ug/L | <4 |
| Selenium, total | ug/L | <4 |
| Silver, total | ug/L | <4 |
| Solids, total suspended | mg/L | 31 |
| Styrene | ug/L | <1 |
| Tetrachloroethene | ug/L | <1 |
| Thallium, total | ug/L | <4 |
| Toluene | ug/L | <1 |
| Trans-1,2-dichloroethene | ug/L | <1 |
| Trans-1,3-dichloropropene | ug/L | <1 |
| Trans-1,4-dichloro-2-butene | ug/L | <5 |
| Trichloroethene | ug/L | <1 |
| Trichlorofluoromethane | ug/L | <1 |
| Vanadium, total | ug/L | <20 |
| Vinyl acetate | ug/L | <5 |
| Vinyl chloride | ug/L | <1 |
| Xylenes, total | ug/L | <2 |
| Zinc, total | ug/L | 14.9 |

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

Table 10 – Historic SSI and SSL

**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) | 95% LCL (ug/L) | 95% UCL (ug/L) | GWPS Limit (ug/L) |
|---|---|---|---|---|---|---|
| MW-108A | 4/11/2016 | Arsenic | 18.6 | 16.459 | 23.791 | 10 |
| MW-108A | 10/12/2016 | Arsenic | 27.9 | 15.098 | 26.602 | 10 |
| MW-108A | 4/13/2017 | Arsenic | 17.1 | 15.269 | 26.581 | 10 |
| MW-108A | 10/25/2017 | Arsenic | 7.9 | 8.244 | 27.506 | 10 |
| MW-108A | 4/12/2018 | Arsenic | 10.7 | 5.456 | 26.344 | 10 |
| MW-108A | 10/16/2018 | Arsenic | 17.5 | 7.700 | 18.900 | 10 |
| MW-108A | 4/18/2019 | Arsenic | 16.5 | 7.729 | 18.571 | 10 |
| MW-108A | 10/15/2019 | Arsenic | 11.6 | 10.050 | 18.100 | 10 |
| MW-108A | 4/6/2020 | Arsenic | 6.4 | 7.001 | 18.999 | 10 |
| MW-108A | 10/15/2020 | Arsenic | 21.5 | 0.505 | 20.245 | 10 |
| MW-108A | 4/12/2021 | Arsenic | <4.0 | 0.000 | 18.911 | 10 |
| MW-108A | 10/6/2021 | Arsenic | 4.1 | 6.376 | 21.624 | 10 |
| MW-108A | 4/14/2022 | Arsenic | 9.0 | 0.000 | 19.431 | 10 |
| MW-108A | 10/25/2022 | Arsenic | 12.4 | 1.337 | 12.413 | 10 |
| MW-108A | 4/19/2023 | Arsenic | <4.0 | 1.337 | 12.413 | 10 |
| MW-108A | 10/23/2023 | Arsenic | 14.1 | 3.077 | 15.673 | 10 |
| MW-108A | 4/9/2024 | Arsenic | 9.4 | 3.183 | 15.767 | 10 |
| MW-108A | 4/11/2016 | Cadmium | <0.8 | 0.400 | 0.400 | 5 |
| MW-108A | 10/12/2016 | Cadmium | <0.8 | 0.400 | 0.400 | 5 |
| MW-108A | 4/13/2017 | Cadmium | <0.8 | 0.400 | 0.400 | 5 |
| MW-108A | 10/25/2017 | Cadmium | <0.8 | 0.400 | 0.400 | 5 |
| MW-108A | 4/12/2018 | Cadmium | <0.8 | 0.400 | 0.400 | 5 |
| MW-108A | 10/16/2018 | Cadmium | <0.8 | 0.400 | 0.400 | 5 |
| MW-108A | 4/18/2019 | Cadmium | <0.8 | 0.400 | 0.400 | 5 |
| MW-108A | 10/15/2019 | Cadmium | <0.8 | 0.400 | 0.400 | 5 |
| MW-108A | 4/6/2020 | Cadmium | <0.8 | 0.400 | 0.400 | 5 |
| MW-108A | 10/15/2020 | Cadmium | <0.8 | 0.400 | 0.400 | 5 |
| MW-108A | 4/12/2021 | Cadmium | <0.8 | 0.400 | 0.400 | 5 |
| MW-108A | 10/6/2021 | Cadmium | 2.0 | 0.000 | 1.741 | 5 |
| MW-108A | 4/14/2022 | Cadmium | 3.4 | 0.000 | 3.251 | 5 |
| MW-108A | 10/25/2022 | Cadmium | <0.8 | 0.000 | 3.251 | 5 |
| MW-108A | 4/19/2023 | Cadmium | <0.8 | 0.000 | 3.251 | 5 |
| MW-108A | 10/23/2023 | Cadmium | 1.5 | 0.000 | 3.090 | 5 |
| MW-108A | 4/9/2024 | Cadmium | <0.8 | 0.028 | 1.322 | 5 |
| MW-108A | 4/11/2016 | Cobalt | 5.2 | 0.468 | 15.482 | 2.8 |
| MW-108A | 10/12/2016 | Cobalt | 2.9 | 0.000 | 15.501 | 2.8 |
| MW-108A | 4/13/2017 | Cobalt | <0.8 | 0.726 | 6.174 | 2.8 |
| MW-108A | 10/25/2017 | Cobalt | 149 | 0.000 | 125.373 | 2.8 |
| MW-108A | 4/12/2018 | Cobalt | 1.1 | 0.000 | 124.987 | 2.1 |
| MW-108A | 10/16/2018 | Cobalt | <0.8 | 0.000 | 124.987 | 2.1 |
| MW-108A | 4/18/2019 | Cobalt | <0.8 | 0.163 | 0.987 | 2.1 |
| MW-108A | 10/15/2019 | Cobalt | <0.8 | 0.400 | 0.400 | 2.1 |
| MW-108A | 4/6/2020 | Cobalt | <0.8 | 0.163 | 0.987 | 2.1 |
| MW-108A | 10/15/2020 | Cobalt | <0.4 | 0.400 | 0.400 | 2.1 |
| MW-108A | 4/12/2021 | Cobalt | 9.1 | 0.000 | 7.692 | 2.1 |
| MW-108A | 10/6/2021 | Cobalt | 173.0 | 0.000 | 145.650 | 2.1 |
| MW-108A | 4/14/2022 | Cobalt | 56.6 | 0.000 | 153.198 | 2.1 |
| MW-108A | 10/25/2022 | Cobalt | 1.9 | 0.000 | 153.136 | 2.1 |
| MW-108A | 4/19/2023 | Cobalt | 8.4 | 0.000 | 153.139 | 2.1 |
| MW-108A | 10/23/2023 | Cobalt | 586.0 | 0.000 | 496.002 | 2.1 |
| MW-108A | 4/9/2024 | Cobalt | 27.6 | 0.000 | 493.440 | 2.1 |
| MW-108A | 4/11/2016 | Nickel | <4.0 | 2.597 | 11.303 | 100 |
| MW-108A | 10/12/2016 | Nickel | 5.2 | 2.144 | 11.106 | 100 |
| MW-108A | 4/13/2017 | Nickel | <4.0 | 0.717 | 8.233 | 100 |
| MW-108A | 10/25/2017 | Nickel | 39.7 | 0.000 | 33.844 | 100 |
| MW-108A | 4/12/2018 | Nickel | <4.0 | 0.000 | 33.598 | 100 |
| MW-108A | 10/16/2018 | Nickel | <4.0 | 0.000 | 33.598 | 100 |
| MW-108A | 4/18/2019 | Nickel | <4.0 | 2.000 | 2.000 | 100 |
| MW-108A | 10/15/2019 | Nickel | <4.0 | 2.000 | 2.000 | 100 |
| MW-108A | 4/6/2020 | Nickel | <4.0 | 2.000 | 2.000 | 100 |
| MW-108A | 10/15/2020 | Nickel | <4.0 | 2.000 | 2.000 | 100 |
| MW-108A | 4/12/2021 | Nickel | 7.6 | 0.106 | 6.694 | 100 |
| MW-108A | 10/6/2021 | Nickel | 46.9 | 0.000 | 40.125 | 100 |
| MW-108A | 4/14/2022 | Nickel | 77.7 | 0.000 | 75.394 | 100 |
| MW-108A | 10/25/2022 | Nickel | <4.0 | 0.000 | 75.394 | 100 |
| MW-108A | 4/19/2023 | Nickel | 34.6 | 3.466 | 77.134 | 100 |
| MW-108A | 10/23/2023 | Nickel | 292.0 | 0.000 | 255.293 | 100 |
| MW-108A | 4/9/2024 | Nickel | 55.6 | 0.000 | 251.887 | 100 |
| MW-108A | 4/11/2016 | Zinc | <8 | 4.000 | 4.000 | 2000 |
| MW-108A | 10/12/2016 | Zinc | <8 | 4.000 | 4.000 | 2000 |
| MW-108A | 4/13/2017 | Zinc | <8 | 4.000 | 4.000 | 2000 |
| MW-108A | 10/25/2017 | Zinc | 9.0 | 2.309 | 8.191 | 2000 |
| MW-108A | 4/12/2018 | Zinc | <20 | 2.309 | 8.191 | 2000 |
| MW-108A | 10/16/2018 | Zinc | <20 | 2.309 | 8.191 | 2000 |
| MW-108A | 4/18/2019 | Zinc | <8 | 2.309 | 8.191 | 2000 |
| MW-108A | 10/15/2019 | Zinc | <20 | 4.000 | 4.000 | 2000 |
| MW-108A | 4/6/2020 | Zinc | <20 | 4.000 | 4.000 | 2000 |
| MW-108A | 10/15/2020 | Zinc | <20 | 4.000 | 4.000 | 2000 |
| MW-108A | 4/12/2021 | Zinc | <20 | 4.000 | 4.000 | 2000 |
| MW-108A | 10/6/2021 | Zinc | 61.4 | 0.000 | 52.271 | 2000 |
| MW-108A | 4/14/2022 | Zinc | 35.7 | 0.000 | 58.823 | 2000 |
| MW-108A | 10/25/2022 | Zinc | <20 | 0.000 | 58.823 | 2000 |
| MW-108A | 4/19/2023 | Zinc | <20 | 0.000 | 58.823 | 2000 |
| MW-108A | 10/23/2023 | Zinc | 28.1 | 0.000 | 37.080 | 2000 |
| MW-108A | 4/9/2024 | Zinc | 21.1 | 1.071 | 28.529 | 2000 |
| MW-108A | 4/11/2016 | Benzene | <1.0 | 0.309 | 1.591 | 5 |
| MW-108A | 10/12/2016 | Benzene | <1.0 | 0.309 | 1.591 | 5 |
| MW-108A | 4/13/2017 | Benzene | <1.0 | 0.128 | 1.422 | 5 |
| MW-108A | 10/25/2017 | Benzene | 1.0 | 0.331 | 0.919 | 5 |
| MW-108A | 4/12/2018 | Benzene | <1.0 | 0.381 | 1.219 | 5 |
| MW-108A | 10/16/2018 | Benzene | <1.0 | 0.381 | 1.219 | 5 |
| MW-108A | 4/18/2019 | Benzene | <1.0 | 0.263 | 1.087 | 5 |
| MW-108A | 10/15/2019 | Benzene | <1.0 | 0.500 | 0.500 | 5 |
| MW-108A | 4/6/2020 | Benzene | <1.0 | 0.500 | 0.500 | 5 |
| MW-108A | 10/15/2020 | Benzene | <1.0 | 0.500 | 0.500 | 5 |
| MW-108A | 4/12/2021 | Benzene | <1.0 | 0.500 | 0.500 | 5 |
| MW-108A | 10/6/2021 | Benzene | <1.0 | 0.500 | 0.500 | 5 |
| MW-108A | 4/14/2022 | Benzene | <1.0 | 0.500 | 0.500 | 5 |
| MW-108A | 10/25/2022 | Benzene | <1.0 | 0.500 | 0.500 | 5 |
| MW-108A | 4/19/2023 | Benzene | <1.0 | 0.500 | 0.500 | 5 |
| MW-108A | 10/23/2023 | Benzene | <1.0 | 0.500 | 0.500 | 5 |
| MW-108A | 4/9/2024 | Benzene | <1.0 | 0.500 | 0.500 | 5 |

***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) | 95% LCL (ug/L) | 95% UCL (ug/L) | GWPS Limit (ug/L) |
|---|---|---|---|---|---|---|
| MW-110A | 4/11/2016 | Arsenic | **24.4** | 25.105 | 36.695 | 10 |
| MW-110A | 10/12/2016 | Arsenic | **44.8** | 23.078 | 43.372 | 10 |
| MW-110A | 4/13/2017 | Arsenic | **33.3** | 24.25 | 43.9 | 10 |
| MW-110A | 10/25/2017 | Arsenic | **37.6** | 24.997 | 45.053 | 10 |
| MW-110A | 4/12/2018 | Arsenic | **36.3** | 32.262 | 43.738 | 10 |
| MW-110A | 10/16/2018 | Arsenic | **50.2** | 30.582 | 48.118 | 10 |
| MW-110A | 4/18/2019 | Arsenic | **21.8** | 22.807 | 50.143 | 10 |
| MW-110A | 10/15/2019 | Arsenic | **54.2** | 23.323 | 57.927 | 10 |
| MW-110A | 4/6/2020 | Arsenic | **44.7** | 25.688 | 59.762 | 10 |
| MW-110A | 10/15/2020 | Arsenic | **53.1** | 25.754 | 61.146 | 10 |
| MW-110A | 4/12/2021 | Arsenic | **43.8** | 42.53 | 55.37 | 10 |
| MW-110A | 10/6/2021 | Arsenic | **42.2** | 40.213 | 51.687 | 10 |
| MW-110A | 4/14/2022 | Arsenic | **19.5** | 22.868 | 56.432 | 10 |
| MW-110A | 10/25/2022 | Arsenic | **67.1** | 20.278 | 66.022 | 10 |
| MW-110A | 4/19/2023 | Arsenic | **18.7** | 9.930 | 63.820 | 10 |
| MW-110A | 10/23/2023 | Arsenic | **57.6** | 10.988 | 70.452 | 10 |
| MW-110A | 4/9/2024 | Arsenic | **7.0** | 3.213 | 71.987 | 10 |
| MW-110A | 4/11/2016 | Barium | **639** | 472.843 | 1651.157 | 2,000.00 |
| MW-110A | 10/12/2016 | Barium | **748** | 625.088 | 982.912 | 2,000.00 |
| MW-110A | 4/13/2017 | Barium | **890** | 648.8 | 904.2 | 2,000.00 |
| MW-110A | 10/25/2017 | Barium | **784** | 643.478 | 887.022 | 2,000.00 |
| MW-110A | 4/12/2018 | Barium | **733** | 705.455 | 872.045 | 2,000.00 |
| MW-110A | 10/16/2018 | Barium | **650** | 646.166 | 882.334 | 2,000.00 |
| MW-110A | 4/18/2019 | Barium | **551** | 559.609 | 799.391 | 2,000.00 |
| MW-110A | 10/15/2019 | Barium | **803** | 556.460 | 812.040 | 2,000.00 |
| MW-110A | 4/6/2020 | Barium | **816** | 555.181 | 854.819 | 2,000.00 |
| MW-110A | 10/15/2020 | Barium | **701** | 573.674 | 861.826 | 2,000.00 |
| MW-110A | 4/12/2021 | Barium | **713** | 688.123 | 828.377 | 2,000.00 |
| MW-110A | 10/6/2021 | Barium | **714** | 672.881 | 799.119 | 2,000.00 |
| MW-110A | 4/14/2022 | Barium | **520** | 550.428 | 773.572 | 2,000.00 |
| MW-110A | 10/25/2022 | Barium | **675** | 547.117 | 763.883 | 2,000.00 |
| MW-110A | 4/19/2023 | Barium | **537** | 496.928 | 726.072 | 2,000.00 |
| MW-110A | 10/23/2023 | Barium | **842** | 467.726 | 819.274 | 2,000.00 |
| MW-110A | 4/9/2024 | Barium | **199** | 242.145 | 884.355 | 2,000.00 |
| MW-110A | 4/11/2016 | Cobalt | **13.3** | 1.339 | 13.811 | 2.8 |
| MW-110A | 10/12/2016 | Cobalt | **12.5** | 2.863 | 15.837 | 2.8 |
| MW-110A | 4/13/2017 | Cobalt | **10.8** | 2.948 | 16.002 | 2.8 |
| MW-110A | 10/25/2017 | Cobalt | **7.7** | 8.158 | 13.992 | 2.8 |
| MW-110A | 4/12/2018 | Cobalt | **18.5** | 7.033 | 17.717 | 2.1 |
| MW-110A | 10/16/2018 | Cobalt | **19.8** | 7.286 | 21.114 | 2.1 |
| MW-110A | 4/18/2019 | Cobalt | **23.7** | 9.368 | 25.482 | 2.1 |
| MW-110A | 10/15/2019 | Cobalt | **4.3** | 6.604 | 26.546 | 2.1 |
| MW-110A | 4/6/2020 | Cobalt | **39.3** | 4.863 | 38.687 | 2.1 |
| MW-110A | 10/15/2020 | Cobalt | **4.8** | 0.000 | 37.803 | 2.1 |
| MW-110A | 4/12/2021 | Cobalt | **11.2** | 0.000 | 34.388 | 2.1 |
| MW-110A | 10/6/2021 | Cobalt | **12.3** | 0.000 | 34.891 | 2.1 |
| MW-110A | 4/14/2022 | Cobalt | **191.0** | 0.000 | 161.683 | 2.1 |
| MW-110A | 10/25/2022 | Cobalt | **6.5** | 0.000 | 161.745 | 2.1 |
| MW-110A | 4/19/2023 | Cobalt | **91.4** | 0.000 | 176.825 | 2.1 |
| MW-110A | 10/23/2023 | Cobalt | **18.0** | 0.000 | 176.662 | 2.1 |
| MW-110A | 4/9/2024 | Cobalt | **1460.0** | 0.000 | 1231.113 | 2.1 |
| MW-110A | 4/11/2016 | Nickel | <4 | 2.000 | 2.000 | 100.00 |
| MW-110A | 10/12/2016 | Nickel | <4 | 2.000 | 2.000 | 100.00 |
| MW-110A | 4/13/2017 | Nickel | <4 | 2.000 | 2.000 | 100.00 |
| MW-110A | 10/25/2017 | Nickel | <4 | 2.000 | 2.000 | 100.00 |
| MW-110A | 4/12/2018 | Nickel | <4 | 2.000 | 2.000 | 100.00 |
| MW-110A | 10/16/2018 | Nickel | <4 | 2.000 | 2.000 | 100.00 |
| MW-110A | 4/18/2019 | Nickel | <4 | 2.000 | 2.000 | 100.00 |
| MW-110A | 10/15/2019 | Nickel | <4 | 2.000 | 2.000 | 100.00 |
| MW-110A | 4/6/2020 | Nickel | <4 | 2.000 | 2.000 | 100.00 |
| MW-110A | 10/15/2020 | Nickel | <4 | 2.000 | 2.000 | 100.00 |
| MW-110A | 4/12/2021 | Nickel | <4 | 2.000 | 2.000 | 100.00 |
| MW-110A | 10/6/2021 | Nickel | <4 | 2.000 | 2.000 | 100.00 |
| MW-110A | 4/14/2022 | Nickel | **55.9** | 0.000 | 47.176 | 100.00 |
| MW-110A | 10/25/2022 | Nickel | <4 | 0.000 | 47.176 | 100.00 |
| MW-110A | 4/19/2023 | Nickel | **21.2** | 0.000 | 50.172 | 100.00 |
| MW-110A | 10/23/2023 | Nickel | **9.0** | 0.000 | 50.181 | 100.00 |
| MW-110A | 4/9/2024 | Nickel | **456.0** | 0.000 | 384.097 | 100.00 |
| MW-110A | 4/11/2016 | Zinc | <8 | --- | --- | 100.00 |
| MW-110A | 10/12/2016 | Zinc | **11.2** | --- | --- | 100.00 |
| MW-110A | 4/13/2017 | Zinc | <8 | --- | --- | 100.00 |
| MW-110A | 10/25/2017 | Zinc | <8 | 10.000 | 10.000 | 100.00 |
| MW-110A | 4/12/2018 | Zinc | <20 | 10.000 | 10.000 | 100.00 |
| MW-110A | 10/16/2018 | Zinc | <20 | 10.000 | 10.000 | 100.00 |
| MW-110A | 4/18/2019 | Zinc | <8 | 10.000 | 10.000 | 100.00 |
| MW-110A | 10/15/2019 | Zinc | <20 | 10.000 | 10.000 | 100.00 |
| MW-110A | 4/6/2020 | Zinc | <20 | 10.000 | 10.000 | 100.00 |
| MW-110A | 10/15/2020 | Zinc | <20 | 10.000 | 10.000 | 100.00 |
| MW-110A | 4/12/2021 | Zinc | <20 | 10.000 | 10.000 | 100.00 |
| MW-110A | 10/6/2021 | Zinc | <20 | 10.000 | 10.000 | 100.00 |
| MW-110A | 4/14/2022 | Zinc | <20 | 10.000 | 10.000 | 100.00 |
| MW-110A | 10/25/2022 | Zinc | <20 | 10.000 | 10.000 | 100.00 |
| MW-110A | 4/19/2023 | Zinc | <20 | 10.000 | 10.000 | 100.00 |
| MW-110A | 10/23/2023 | Zinc | **31.5** | 2.730 | 28.020 | 100.00 |
| MW-110A | 4/9/2024 | Zinc | **21.4** | 6.046 | 30.404 | 100.00 |

Table 11 – Corrective Action Trend Analysis

**Table 11**
**Corrective Action Trend Analysis**
**Annual Water Quality Report**
**Bremer County Sanitary Landfill**
**Permit No. 09-SDP-01-75C**

| Monitoring Well | Compound | Sample Date | Current Condition | Trend | N | Projected Year to Completion (IAC 113.10(9)"e" |
|---|---|---|---|---|---|---|
| MW-108A | Arsenic | 4/11/2016 | SSL | Static | 5 | 2038 |
| MW-108A | Arsenic | 10/12/2016 | SSL | Static | 6 | 2038 |
| MW-108A | Arsenic | 4/13/2017 | SSL | Static | 7 | 2038 |
| MW-108A | Arsenic | 10/25/2017 | SSL | Static | 8 | 2038 |
| MW-108A | Arsenic | 4/12/2018 | SSL | Static | 9 | 2038 |
| MW-108A | Arsenic | 10/16/2018 | SSL | Static | 10 | 2038 |
| MW-108A | Arsenic | 4/18/2019 | SSL | Static | 11 | 2038 |
| MW-108A | Arsenic | 10/15/2019 | SSL | Static | 12 | 2038 |
| MW-108A | Arsenic | 4/6/2020 | SSL | Static | 13 | 2038 |
| MW-108A | Arsenic | 10/15/2020 | SSL | Static | 14 | 2038 |
| MW-108A | Arsenic | 4/12/2021 | SSL | Static | 15 | 2038 |
| MW-108A | Arsenic | 10/6/2021 | SSL | Static | 16 | 2038 |
| MW-108A | Arsenic | 4/14/2022 | SSL | Static | 17 | 2038 |
| MW-108A | Arsenic | 10/25/2022 | SSL | Static | 18 | 2038 |
| MW-108A | Arsenic | 4/19/2023 | SSL | Static | 19 | 2038 |
| MW-108A | Arsenic | 10/23/2023 | SSL | Static | 20 | 2038 |
| MW-108A | Arsenic | 4/9/2024 | SSL | Static | 21 | 2038 |
| MW-108A | Cadmium | 4/11/2016 | No-SSI | NA | NA | NA |
| MW-108A | Cadmium | 10/12/2016 | No-SSI | NA | NA | NA |
| MW-108A | Cadmium | 4/13/2017 | No-SSI | NA | NA | NA |
| MW-108A | Cadmium | 10/25/2017 | No-SSI | NA | NA | NA |
| MW-108A | Cadmium | 4/12/2018 | No-SSI | NA | NA | NA |
| MW-108A | Cadmium | 10/16/2018 | No-SSI | NA | NA | NA |
| MW-108A | Cadmium | 4/18/2019 | No-SSI | NA | NA | NA |
| MW-108A | Cadmium | 10/15/2019 | No-SSI | NA | NA | NA |
| MW-108A | Cadmium | 4/6/2020 | No-SSI | NA | NA | NA |
| MW-108A | Cadmium | 10/15/2020 | No-SSI | NA | NA | NA |
| MW-108A | Cadmium | 4/12/2021 | No-SSI | NA | NA | NA |
| MW-108A | Cadmium | 10/6/2021 | SSI | NA | NA | NA |
| MW-108A | Cadmium | 4/14/2022 | SSI | NA | NA | NA |
| MW-108A | Cadmium | 10/25/2022 | No-SSI | NA | NA | NA |
| MW-108A | Cadmium | 4/19/2023 | No-SSI | NA | NA | NA |
| MW-108A | Cadmium | 10/23/2023 | SSI | NA | NA | NA |
| MW-108A | Cadmium | 4/9/2024 | No-SSI | NA | NA | NA |
| MW-108A | Cobalt | 4/11/2016 | SSI | N/A | N/A | N/A |
| MW-108A | Cobalt | 10/12/2016 | SSI | N/A | N/A | N/A |
| MW-108A | Cobalt | 4/13/2017 | No-SSI | N/A | N/A | N/A |
| MW-108A | Cobalt | 10/25/2017 | SSI | N/A | N/A | N/A |
| MW-108A | Cobalt | 4/12/2018 | SSI | N/A | N/A | N/A |
| MW-108A | Cobalt | 10/16/2018 | No-SSI | N/A | N/A | N/A |
| MW-108A | Cobalt | 4/18/2019 | No-SSI | N/A | N/A | N/A |
| MW-108A | Cobalt | 10/15/2019 | No-SSI | N/A | N/A | N/A |
| MW-108A | Cobalt | 4/6/2020 | No-SSI | N/A | N/A | N/A |
| MW-108A | Cobalt | 10/15/2020 | No-SSI | N/A | N/A | N/A |
| MW-108A | Cobalt | 4/12/2021 | SSI | N/A | N/A | N/A |
| MW-108A | Cobalt | 10/6/2021 | SSI | N/A | N/A | N/A |
| MW-108A | Cobalt | 4/14/2022 | SSI | N/A | N/A | N/A |
| MW-108A | Cobalt | 10/25/2022 | SSI | N/A | N/A | N/A |
| MW-108A | Cobalt | 4/19/2023 | SSI | N/A | N/A | N/A |
| MW-108A | Cobalt | 10/23/2023 | SSI | N/A | N/A | N/A |
| MW-108A | Cobalt | 4/9/2024 | SSI | N/A | N/A | N/A |
| MW-108A | Nickel | 4/11/2016 | No-SSI | N/A | N/A | N/A |
| MW-108A | Nickel | 10/12/2016 | SSI | N/A | N/A | N/A |
| MW-108A | Nickel | 4/13/2017 | No-SSI | N/A | N/A | N/A |
| MW-108A | Nickel | 10/25/2017 | SSI | N/A | N/A | N/A |
| MW-108A | Nickel | 4/12/2018 | No-SSI | N/A | N/A | N/A |
| MW-108A | Nickel | 10/16/2018 | No-SSI | N/A | N/A | N/A |
| MW-108A | Nickel | 4/18/2019 | No-SSI | N/A | N/A | N/A |
| MW-108A | Nickel | 10/15/2019 | No-SSI | N/A | N/A | N/A |
| MW-108A | Nickel | 4/6/2020 | No-SSI | N/A | N/A | N/A |
| MW-108A | Nickel | 10/15/2020 | No-SSI | N/A | N/A | N/A |
| MW-108A | Nickel | 4/12/2021 | SSI | N/A | N/A | N/A |
| MW-108A | Nickel | 10/6/2021 | SSI | N/A | N/A | N/A |
| MW-108A | Nickel | 4/14/2022 | SSI | N/A | N/A | N/A |
| MW-108A | Nickel | 10/25/2022 | No-SSI | N/A | N/A | N/A |
| MW-108A | Nickel | 4/19/2023 | SSI | N/A | N/A | N/A |
| MW-108A | Nickel | 10/23/2023 | SSI | N/A | N/A | N/A |
| MW-108A | Nickel | 4/9/2024 | SSI | N/A | N/A | N/A |
| MW-108A | Zinc | 4/11/2016 | No-SSI | N/A | N/A | N/A |
| MW-108A | Zinc | 10/12/2016 | No-SSI | N/A | N/A | N/A |
| MW-108A | Zinc | 4/13/2017 | No-SSI | N/A | N/A | N/A |
| MW-108A | Zinc | 10/25/2017 | No-SSI | N/A | N/A | N/A |
| MW-108A | Zinc | 4/12/2018 | No-SSI | N/A | N/A | N/A |
| MW-108A | Zinc | 10/16/2018 | No-SSI | N/A | N/A | N/A |
| MW-108A | Zinc | 4/18/2019 | No-SSI | N/A | N/A | N/A |
| MW-108A | Zinc | 10/15/2019 | No-SSI | N/A | N/A | N/A |
| MW-108A | Zinc | 4/6/2020 | No-SSI | N/A | N/A | N/A |
| MW-108A | Zinc | 10/15/2020 | No-SSI | N/A | N/A | N/A |
| MW-108A | Zinc | 4/12/2021 | No-SSI | N/A | N/A | N/A |
| MW-108A | Zinc | 10/6/2021 | SSI | N/A | N/A | N/A |
| MW-108A | Zinc | 4/14/2022 | SSI | N/A | N/A | N/A |
| MW-108A | Zinc | 10/25/2022 | No-SSI | N/A | N/A | N/A |
| MW-108A | Zinc | 4/19/2023 | No-SSI | N/A | N/A | N/A |
| MW-108A | Zinc | 10/23/2023 | SSI | N/A | N/A | N/A |
| MW-108A | Zinc | 4/9/2024 | SSI | N/A | N/A | N/A |
| MW-108A | Benzene | 4/11/2016 | No-SSI | N/A | N/A | N/A |
| MW-108A | Benzene | 10/12/2016 | No-SSI | N/A | N/A | N/A |
| MW-108A | Benzene | 4/13/2017 | No-SSI | N/A | N/A | N/A |
| MW-108A | Benzene | 10/25/2017 | No-SSI | N/A | N/A | N/A |
| MW-108A | Benzene | 4/12/2018 | No-SSI | N/A | N/A | N/A |
| MW-108A | Benzene | 10/16/2018 | No-SSI | N/A | N/A | N/A |
| MW-108A | Benzene | 4/18/2019 | No-SSI | N/A | N/A | N/A |
| MW-108A | Benzene | 10/15/2019 | No-SSI | N/A | N/A | N/A |
| MW-108A | Benzene | 4/6/2020 | No-SSI | N/A | N/A | N/A |
| MW-108A | Benzene | 10/15/2020 | No-SSI | N/A | N/A | N/A |
| MW-108A | Benzene | 4/12/2021 | No-SSI | N/A | N/A | N/A |
| MW-108A | Benzene | 10/6/2021 | No-SSI | N/A | N/A | N/A |
| MW-108A | Benzene | 4/14/2022 | No-SSI | N/A | N/A | N/A |
| MW-108A | Benzene | 10/25/2022 | No-SSI | N/A | N/A | N/A |
| MW-108A | Benzene | 4/19/2023 | No-SSI | N/A | N/A | N/A |
| MW-108A | Benzene | 10/23/2023 | No-SSI | N/A | N/A | N/A |
| MW-108A | Benzene | 4/9/2024 | No-SSI | N/A | N/A | N/A |

***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 11**
**Corrective Action Trend Analysis**
**Annual Water Quality Report**
**Bremer County Sanitary Landfill**
**Permit No. 09-SDP-01-75C**

| Monitoring Well | Compound | Sample Date | Current Condition | Trend | N | Projected Year to Completion (IAC 113.10(9)"e" |
|---|---|---|---|---|---|---|
| MW-110A | 4/11/2016 | Arsenic | SSL | Static | 5 | 2038 |
| MW-110A | 10/12/2016 | Arsenic | SSL | Static | 6 | 2038 |
| MW-110A | 4/13/2017 | Arsenic | SSL | Static | 7 | 2038 |
| MW-110A | 10/25/2017 | Arsenic | SSL | Static | 8 | 2038 |
| MW-110A | 4/12/2018 | Arsenic | SSL | Static | 9 | 2038 |
| MW-110A | 10/16/2018 | Arsenic | SSL | Static | 10 | 2038 |
| MW-110A | 4/18/2019 | Arsenic | SSL | Static | 11 | 2038 |
| MW-110A | 10/15/2019 | Arsenic | SSL | Static | 12 | 2038 |
| MW-110A | 4/6/2020 | Arsenic | SSL | Static | 13 | 2038 |
| MW-110A | 10/15/2020 | Arsenic | SSL | Static | 14 | 2038 |
| MW-110A | 4/12/2021 | Arsenic | SSL | Static | 15 | 2038 |
| MW-110A | 10/6/2021 | Arsenic | SSL | Static | 16 | 2038 |
| MW-110A | 4/14/2022 | Arsenic | SSL | Static | 17 | 2038 |
| MW-110A | 10/25/2022 | Arsenic | SSL | Static | 18 | 2038 |
| MW-110A | 4/19/2023 | Arsenic | SSL | Static | 19 | 2038 |
| MW-110A | 10/23/2023 | Arsenic | SSL | Static | 20 | 2038 |
| MW-110A | 4/9/2024 | Arsenic | SSL | Static | 21 | 2038 |
| MW-110A | 4/11/2016 | Barium | SSI | N/A | N/A | N/A |
| MW-110A | 10/12/2016 | Barium | SSI | N/A | N/A | N/A |
| MW-110A | 4/13/2017 | Barium | SSI | N/A | N/A | N/A |
| MW-110A | 10/25/2017 | Barium | SSI | N/A | N/A | N/A |
| MW-110A | 4/12/2018 | Barium | SSI | N/A | N/A | N/A |
| MW-110A | 10/16/2018 | Barium | SSI | N/A | N/A | N/A |
| MW-110A | 4/18/2019 | Barium | No-SSI | N/A | N/A | N/A |
| MW-110A | 10/15/2019 | Barium | SSI | N/A | N/A | N/A |
| MW-110A | 4/6/2020 | Barium | SSI | N/A | N/A | N/A |
| MW-110A | 10/15/2020 | Barium | SSI | N/A | N/A | N/A |
| MW-110A | 4/12/2021 | Barium | SSI | N/A | N/A | N/A |
| MW-110A | 10/6/2021 | Barium | SSI | N/A | N/A | N/A |
| MW-110A | 4/14/2022 | Barium | SSI | N/A | N/A | N/A |
| MW-110A | 10/25/2022 | Barium | SSI | N/A | N/A | N/A |
| MW-110A | 4/19/2023 | Barium | No-SSI | N/A | N/A | N/A |
| MW-110A | 10/23/2023 | Barium | SSI | N/A | N/A | N/A |
| MW-110A | 4/9/2024 | Barium | SSI | N/A | N/A | N/A |
| MW-110A | 4/11/2016 | Cobalt | SSI | Static | 5 | 2038 |
| MW-110A | 10/12/2016 | Cobalt | SSL | Static | 6 | 2038 |
| MW-110A | 4/13/2017 | Cobalt | SSL | Static | 7 | 2038 |
| MW-110A | 10/25/2017 | Cobalt | SSL | Static | 8 | 2038 |
| MW-110A | 4/12/2018 | Cobalt | SSL | Static | 9 | 2038 |
| MW-110A | 10/16/2018 | Cobalt | SSL | Static | 10 | 2038 |
| MW-110A | 4/18/2019 | Cobalt | SSL | Static | 11 | 2038 |
| MW-110A | 10/15/2019 | Cobalt | SSL | Static | 12 | 2038 |
| MW-110A | 4/6/2020 | Cobalt | SSL | Static | 13 | 2038 |
| MW-110A | 10/15/2020 | Cobalt | SSL | Static | 14 | 2038 |
| MW-110A | 4/12/2021 | Cobalt | SSL | Static | 15 | 2038 |
| MW-110A | 10/6/2021 | Cobalt | SSL | Static | 16 | 2038 |
| MW-110A | 4/14/2022 | Cobalt | SSL | Static | 17 | 2038 |
| MW-110A | 10/25/2022 | Cobalt | SSL | Static | 18 | 2038 |
| MW-110A | 4/19/2023 | Cobalt | SSL | Static | 19 | 2038 |
| MW-110A | 10/23/2023 | Cobalt | SSL | Static | 20 | 2038 |
| MW-110A | 4/9/2024 | Cobalt | SSL | Static | 21 | 2038 |
| MW-110A | 4/11/2016 | Nickel | No-SSI | N/A | N/A | N/A |
| MW-110A | 10/12/2016 | Nickel | No-SSI | N/A | N/A | N/A |
| MW-110A | 4/13/2017 | Nickel | No-SSI | N/A | N/A | N/A |
| MW-110A | 10/25/2017 | Nickel | No-SSI | N/A | N/A | N/A |
| MW-110A | 4/12/2018 | Nickel | No-SSI | N/A | N/A | N/A |
| MW-110A | 10/16/2018 | Nickel | No-SSI | N/A | N/A | N/A |
| MW-110A | 4/18/2019 | Nickel | No-SSI | N/A | N/A | N/A |
| MW-110A | 10/15/2019 | Nickel | No-SSI | N/A | N/A | N/A |
| MW-110A | 4/6/2020 | Nickel | No-SSI | N/A | N/A | N/A |
| MW-110A | 10/15/2020 | Nickel | No-SSI | N/A | N/A | N/A |
| MW-110A | 4/12/2021 | Nickel | No-SSI | N/A | N/A | N/A |
| MW-110A | 10/6/2021 | Nickel | No-SSI | N/A | N/A | N/A |
| MW-110A | 4/14/2022 | Nickel | SSI | N/A | N/A | N/A |
| MW-110A | 10/25/2022 | Nickel | No-SSI | N/A | N/A | N/A |
| MW-110A | 4/19/2023 | Nickel | SSI | N/A | N/A | N/A |
| MW-110A | 10/23/2023 | Nickel | SSI | N/A | N/A | N/A |
| MW-110A | 4/9/2024 | Nickel | SSI | N/A | N/A | N/A |
| MW-110A | 4/11/2016 | Zinc | No-SSI | N/A | N/A | N/A |
| MW-110A | 10/12/2016 | Zinc | No-SSI | N/A | N/A | N/A |
| MW-110A | 4/13/2017 | Zinc | No-SSI | N/A | N/A | N/A |
| MW-110A | 10/25/2017 | Zinc | No-SSI | N/A | N/A | N/A |
| MW-110A | 4/12/2018 | Zinc | No-SSI | N/A | N/A | N/A |
| MW-110A | 10/16/2018 | Zinc | No-SSI | N/A | N/A | N/A |
| MW-110A | 4/18/2019 | Zinc | No-SSI | N/A | N/A | N/A |
| MW-110A | 10/15/2019 | Zinc | No-SSI | N/A | N/A | N/A |
| MW-110A | 4/6/2020 | Zinc | No-SSI | N/A | N/A | N/A |
| MW-110A | 10/15/2020 | Zinc | No-SSI | N/A | N/A | N/A |
| MW-110A | 4/12/2021 | Zinc | No-SSI | N/A | N/A | N/A |
| MW-110A | 10/6/2021 | Zinc | No-SSI | N/A | N/A | N/A |
| MW-110A | 4/14/2022 | Zinc | No-SSI | N/A | N/A | N/A |
| MW-110A | 10/25/2022 | Zinc | No-SSI | N/A | N/A | N/A |
| MW-110A | 4/19/2023 | Zinc | No-SSI | N/A | N/A | N/A |
| MW-110A | 10/23/2023 | Zinc | SSI | N/A | N/A | N/A |
| MW-110A | 4/9/2024 | Zinc | SSI | N/A | N/A | N/A |

Table 12 – *Leachate Summary – Not Used*

**Table 12**
**Leachate Management Summary**
**Leachate Control System Performance Evaluation Report**
**Bremer County Sanitary Landfill**
**Permit No. 09-SDP-01-75C**

***Not Applicable - No Leachate Collection System Exists***

Table 13 – Gas Monitoring Summary

**Table 13**
**Annual Methane Gas Evaluation Report**
**Bremer County Sanitary Landfill**
**2024**

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) | 4/9/24 % LEL | 4/9/24 Depth to Water (ft) from Top PVC | 4/9/24 Exposed* Screen (ft) |
|---|---|---|---|---|---|---|
| SCALEHOUSE | --- | --- | --- | 0 | --- | --- |
| SCALE PIT | --- | --- | --- | 0 | --- | --- |
| CUSTOMER CONVENIENCE BLDGS | --- | --- | --- | 0 | --- | --- |
| MAINTENANCE BLDG | --- | --- | --- | 0 | --- | --- |
| GP-1 | 11.65 | 6.65 | 2.00 | 0 | 7.1 | -0.45 |
| GP-2 | 7.50 | 5.00 | 1.50 | 0 | 7.5 | -2.5 |
| GP-3 | 7.50 | 5.00 | 1.50 | 0 | 6.25 | -1.25 |
| GP-4 | 3.80 | 3.63 | 1.00 | 0 | 3.8 | -0.2 |
| GP-5 | 10.05 | 5.00 | 2.00 | 0 | 9.42 | -4.4 |

**negative values indicate exposed screen length*

Primary Landfill Vents

| Location/Date | 4/9/24 % LEL |
|---|---|
| GV-1 | **0.0** |
| GV-2 | O.L. |
| GV-3 | **0.0** |
| GV-4 | O.L. |
| GV-5 | O.L. |
| GV-6 | O.L. |
| GV-7 | O.L. |
| GV-8 | O.L. |
| GV-9 | O.L. |
| GV-10 | **7.0** |
| GV-11 | O.L. |
| GV-12 | O.L. |
| GV-13 | O.L. |
| GV-14 | O.L. |
| 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**

4/9/2024 Sampled by: Todd Whipple Weather conditions: Sunny, breezy, 60 degrees

**IDNR Form 542-1322**

**Monitoring Well:** MW 1 (ug)

**Primary Sampling Method:** No-Purge for Appendix I
**Secondary Sampling Method:** 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) | 2.23 |

| Date | Time | Water Level | Water Elevation | Notes |
|---|---|---|---|---|
| 4/9/2024 | 9:59 | 4.06 | 1009.24 | |

**ANALYTES, CONTAINERS, AND VOLUMES**

| Analyte | | Required Volume (mL) | Volume Collected No-Purge (mL) | Volume Collected Purge & Sample (mL) | Turbidity this Container (NTU) |
|---|---|---|---|---|---|
| All | Field NTU | 10 | 10 | | 2.23 |
| Appendix I | Metals | 150 | 150 | | 2.23 |
| Appendix I | VOC | 240 | 240 | | 2.23 |
| 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 | 4/9/2024 | 9:59 | 4.06 | 1009.24 | 5 | 0.5 | No |
| | | After purging | 4/9/2024 | 10:08 | 10.08 | 1003.22 | | | |
| | | Top of Screen after construction | | | | 1002.20 | | | |
| | | | | | | 7.04 | feet above (+) or below (-) top screen | | |
| | | Bottom of Well after construction | | | | 993.20 | | | |
| | | Bottom of Well | 4/9/2024 | | 19.90 | 993.40 | | | |
| | | | | | | 0.20 | feet sedimentation | | |
| | | Before Sampling | | | | 1013.30 | | | |
| | | Recovery | | | | 1013.30 | | | |
| | | Recovery | | | | 1013.30 | | | |
| | | Recovery | | | | 1013.30 | | | |
| | | Recovery | 4/9/2024 | 12:39 | 9.25 | 1004.05 | | | |

**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) | 1.75 |

| Date | Time | Water Level | Water Elevation | Notes |
|---|---|---|---|---|
| 4/9/2024 | 10:18 | 9.03 | 1003.71 | |

**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 | | 1.75 |
| Appendix I | Metals | 150 | 150 | | 1.75 |
| Appendix I | VOC | 240 | 240 | | 1.75 |
| 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 | 4/9/2024 | 10:18 | 9.03 | 1003.71 | 3 | 1.9 | No |
| | | After purging | 4/9/2024 | 10:29 | 13.90 | 998.84 | | | |
| | | Top of Screen after construction | | | | 1004.19 | | | |
| | | | | | | -0.48 | feet above (+) or below (-) top screen | | |
| | | Bottom of Well after construction | | | | 994.10 | | | |
| | | Bottom of Well | 4/9/2024 | | 18.55 | 994.19 | | | |
| | | | | | | 0.09 | feet sedimentation | | |
| | | Before Sampling | | | | 1012.74 | | | |
| | | Recovery | | | | 1012.74 | | | |
| | | Recovery | | | | 1012.74 | | | |
| | | Recovery | | | | 1012.74 | | | |
| | | Recovery | 4/9/2024 | 12:42 | 11.63 | 1001.11 | | | |

**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) | 3.21 |

| Date | Time | Water Level | Water Elevation | Notes |
|---|---|---|---|---|
| 4/9/2024 | 11:00 | 7.26 | 984.09 | |

**ANALYTES, CONTAINERS, AND VOLUMES**

| Analyte | | Required Volume (mL) | Volume Collected No-Purge (mL) | Volume Collected Purge & Sample (mL) | Turbidity this Container (NTU) |
|---|---|---|---|---|---|
| All | Field NTU | 10 | 10 | | 3.21 |
| Appendix I | Metals | 150 | 150 | | 3.21 |
| Appendix I | VOC | 240 | 240 | | 3.21 |
| 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 | 4/9/2024 | 11:00 | 7.26 | 984.09 | 5 | 0.7 | no |
| | | After purging | 4/9/2024 | 11:08 | 7.70 | 983.65 | | | |
| | | Top of Screen after construction | | | | 980.70 | | | |
| | | | | | | 3.39 | feet above (+) or below (-) top screen | | |
| | | Bottom of Well after construction | | | | 972.70 | | | |
| | | Bottom of Well | 4/9/2024 | | 17.55 | 973.80 | | | |
| | | | | | | 1.10 | feet sedimentation | | |
| | | Before Sampling | | | | 991.35 | | | |
| | | Recovery | | | | 991.35 | | | |
| | | Recovery | | | | 991.35 | | | |
| | | Recovery | | | | 991.35 | | | |
| | | Recovery | 4/9/2024 | 12:53 | 7.26 | 984.09 | | | |

**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) | 2.25 |

| Date | Time | Water Level | Water Elevation | Notes |
|---|---|---|---|---|
| 4/9/2024 | 10:43 | 5.81 | 984.99 | |

**ANALYTES, CONTAINERS, AND VOLUMES**

| Analyte | | Required Volume (mL) | Volume Collected No-Purge (mL) | Volume Collected Purge & Sample (mL) | Turbidity this Container (NTU) |
|---|---|---|---|---|---|
| All | Field NTU | 10 | 10 | | 2.25 |
| Appendix I | Metals | 150 | 150 | | 2.25 |
| Appendix I | VOC | 240 | 240 | | 2.25 |
| 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 | 4/9/2024 | 10:43 | 5.81 | 984.99 | 5 | 0.6 | no |
| | | After purging | 4/9/2024 | 10:53 | 6.55 | 984.25 | | | |
| | | Top of Screen after construction | | | | 982.05 | | | |
| | | | | | | 2.94 | feet above (+) or below (-) top screen | | |
| | | Bottom of Well after construction | | | | 973.05 | | | |
| | | Bottom of Well | 4/9/2024 | | 18.40 | 972.40 | | | |
| | | | | | | -0.65 | feet sedimentation | | |
| | | Before Sampling | | | | 990.80 | | | |
| | | Recovery | | | | 990.80 | | | |
| | | Recovery | | | | 990.80 | | | |
| | | Recovery | | | | 990.80 | | | |
| | | Recovery | 4/9/2024 | 12:52 | 5.82 | 984.98 | | | |

**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) | 1.70 |

| Date | Time | Water Level | Water Elevation | Notes |
|---|---|---|---|---|
| 4/9/2024 | 11:18 | 10.31 | 982.75 | |

**ANALYTES, CONTAINERS, AND VOLUMES**

| Analyte | | Required Volume (mL) | Volume Collected No-Purge (mL) | Volume Collected Purge & Sample (mL) | Turbidity this Container (NTU) |
|---|---|---|---|---|---|
| All | Field NTU | 10 | 10 | | 1.70 |
| Appendix I | Metals | 150 | 150 | | 1.70 |
| Appendix I | VOC | 240 | 240 | | 1.70 |
| 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 | 993.06 | 2" dia. | Date | Time | Depth | Elevation | Gallons | # of Vol. | Purged Dry? |
| Well Depth | 21.90 | Before purging | 4/9/2024 | 11:18 | 10.31 | 982.75 | 3 | 1.6 | No |
| | | After purging | 4/9/2024 | 11:28 | 10.8 | 982.26 | | | |
| | | Top of Screen after construction | | | | 981.16 | | | |
| | | | | | | 1.59 | feet above (+) or below (-) top screen | | |
| | | Bottom of Well after construction | | | | 971.16 | | | |
| | | Bottom of Well | 4/9/2024 | | 21.55 | 971.51 | | | |
| | | | | | | 0.35 | feet sedimentation | | |
| | | Before Sampling | | | | 993.06 | App I | | |
| | | Before Sampling | | | | 993.06 | App II | | |
| | | Recovery | | | | 993.06 | | | |
| | | Recovery | | | | 993.06 | | | |
| | | Recovery | 4/9/2024 | 12:56 | 10.35 | 982.71 | 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 | 15.50 |
| Top sample | 979.20 |
| Bottom sample | 975.20 |
| Turbidity(NTU) | 173.20 |

| Date | Time | Water Level | Water Elevation | Notes |
|---|---|---|---|---|
| 4/9/2024 | 11:35 | 10.57 | 984.13 | |

**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 | | 173.20 |
| Appendix I | Metals | 150 | 150 | | 173.20 |
| Appendix I | VOC | 240 | 240 | | 173.20 |
| 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 | 4/9/2024 | 11:35 | 10.57 | 984.13 | 3 | 1.8 | No |
| | | After purging | 4/9/2024 | 11:44 | 13.70 | 981.00 | | | |
| | | Top of Screen after construction | | | | 983.75 | | | |
| | | | | | | 0.38 | feet above (+) or below (-) top screen | | |
| | | Bottom of Well after construction | | | | 973.75 | | | |
| | | Bottom of Well | 4/9/2024 | | 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 | 4/9/2024 | 12:49 | 11.22 | 983.48 | | | |

**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 | 15.50 |
| Top sample | 980.40 |
| Bottom sample | 976.40 |
| Turbidity(NTU) | 7.26 |

| Date | Time | Water Level | Water Elevation | Notes |
|---|---|---|---|---|
| 4/9/2024 | 11:54 | 11.16 | 984.74 | |

**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 | | 7.26 |
| Appendix I | Metals | 150 | 150 | | 7.26 |
| Appendix I | VOC | 240 | 240 | | 7.26 |
| 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 | 4/9/2024 | 11:54 | 11.16 | 984.74 | 5 | 3.1 | No |
| | | After purging | 4/9/2024 | 12:08 | 16.45 | 979.45 | | | |
| | | Top of Screen after construction | | | | 985.90 | | | |
| | | | | | | -1.16 | feet above (+) or below (-) top screen | | |
| | | Bottom of Well after construction | | | | 974.90 | | | |
| | | Bottom of Well | 4/9/2024 | | 20.65 | 975.25 | | | |
| | | | | | | 0.35 | feet sedimentation | | |
| | | Before Sampling | | | | 995.90 | | | |
| | | Recovery | | | | 995.90 | | | |
| | | Recovery | | | | 995.90 | | | |
| | | Recovery | | | | 995.90 | | | |
| | | Before Sampling | 4/9/2024 | 12:51 | 11.18 | 984.72 | | | |

# Appendix B

# Statistical Report

# GROUND WATER STATISTICS

# FOR THE

# BREMER COUNTY LANDFILL

**First Semi-Annual Monitoring Event in 2024**

Prepared for:
**Bremer County Landfill**
2049 200th Street
Waverly, IA 50677

Prepared by:
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**May 2024**

## INTRODUCTION

This report summarizes the results of the statistical analysis used to evaluate the ground water quality data obtained during the first semi-annual monitoring event in 2024 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 at least semiannually and analyzed for the detection monitoring parameters listed in 113.10(5), which includes 15 inorganic constituents and 47 organic compounds, summarized in Table 1 below.

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

*Organic Compounds:*

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

*Inorganic constituents:*

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

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

## STATISTICAL METHODOLOGIES FOR DETECTION MONITORING

IAC 567, Chapter 113.10(4) provides several options for statistically evaluating the ground water data at those wells that monitor the open cells or contiguous MSWLF units. The preferred methods for comparing ground water data are using either prediction limits or using control charts. 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 First Semi-Annual Monitoring Event in 2024**

| Well | Trace Metal | Result | Prediction Limit | Prediction Limit Type | Verified or Awaiting Verification |
|---|---|---|---|---|---|
| MW-108A | Arsenic, µg/L | 9.4 | 4.0000 | Nonparametric | Verified |
| | Cobalt, µg/L | 27.6 | 0.9000 | Nonparametric | Verified |
| | Nickel, µg/L | 55.6 | 7.1000 | Nonparametric | Verified |
| | Zinc, µg/L | 21.1 | 21.0000 | Nonparametric | Verified |
| MW-110A | Arsenic, µg/L | 7.0 | 4.0000 | Nonparametric | Verified |
| | Cobalt, µg/L | 1460 | 0.9000 | Nonparametric | Verified |
| | Nickel, µg/L | 456 | 7.1000 | Nonparametric | Verified |
| | Zinc, µg/L | 21.4 | 21.0000 | 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 first semi-annual monitoring event in 2024 are summarized below.

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

| Well | VOC Detected | Result, µg/L | Reporting Limit, µg/L | Verified/ Awaiting Verification | Groundwater Standard, µg/L |
|---|---|---|---|---|---|
| MW-1 | Chloromethane | 7.9 | 1 | Awaiting Verification | na |
| MW-110A | 1,1-Dichloroethane | 1.1 | 1 | Awaiting Verification | 140[b] |
| | 1,4-Dichlorobenzene | 3.6 | 1 | Verified | 75[a] |
| | Benzene | 3.4 | 1 | Verified | 5[a] |
| | Chlorobenzene | 7.6 | 1 | Verified | 100[a] |
| | Chloroethane | 1.4 | 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 First Semi-Annual Monitoring Event in 2024

## Table 1

## Analytical Data Summary for 4/9/2024

| 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 | <1.0 | <1.0 | <1.0 | 1.1 | <1.0 | <1.0 | <1.0 |
| 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 | <5 | <5 | <1 | <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 | 3.6 | <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 | <10 | <10 | <5 | <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 4/9/2024

| Constituents | Units | MW-1 | MW-105B | MW-108A | MW-110A | MW-2A | MW-3 | MW-4 |
|---|---|---|---|---|---|---|---|---|
| Antimony, total | ug/L | <2 | <2 | <2 | <2 | <2 | <2 | <2 |
| 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 | <4.0 | <4.0 | 9.4 | 7.0 | <4.0 | <4.0 | <4.0 |
| Azobenzene | ug/L | | | | <8 | | | |
| Barium, total | ug/L | 361.0 | 110.0 | 26.9 | 199.0 | 58.4 | 47.1 | 150.0 |
| Benzene | ug/L | <1.0 | <1.0 | <1.0 | 3.4 | <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 | <4 | <4 | <4 | <4 | <4 | <4 | <4 |
| 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 | <.8 | <.8 | <.8 | <.8 | <.8 | <.8 | <.8 |
| Carbon disulfide | ug/L | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Carbon tetrachloride | ug/L | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Chlordane | ug/L | | | | <.1 | | | |
| Chlorobenzene | ug/L | <1.0 | <1.0 | <1.0 | 7.6 | <1.0 | <1.0 | <1.0 |
| Chlorobenzilate | ug/L | | | | <8 | | | |
| Chloroethane | ug/L | <1.0 | <1.0 | <1.0 | 1.4 | <1.0 | <1.0 | <1.0 |
| Chloroform | ug/L | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Chloromethane | ug/L | 7.9 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| Chloroprene | ug/L | | | | <1 | | | |
| Chromium, total | ug/L | <8 | <8 | <8 | <8 | <8 | <8 | <8 |
| 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 | <.4 | <.4 | 27.6 | 1460.0 | <.4 | <.4 | <.4 |
| Copper, total | ug/L | <4.0 | <4.0 | 6.3 | 4.2 | <4.0 | <4.0 | <4.0 |
| Cyanide, total | mg/L | | | | <.005 | | | |
| Delta-bhc | ug/L | | | | <.05 | | | |
| Diallate | ug/L | | | | <8 | | | |
| Dibenzo(a,h)anthracene | ug/L | | | | <8 | | | |
| Dibenzofuran | ug/L | | | | <8 | | | |
| Dibromochloromethane | ug/L | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Dibromomethane | ug/L | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Dichlorodifluoromethane | ug/L | | | | <1 | | | |
| Dieldrin | ug/L | | | | <.05 | | | |
| Diethyl phthalate | ug/L | | | | <8 | | | |
| Dimethoate | ug/L | | | | <.4 | | | |
| Dimethylphthalate | ug/L | | | | <8 | | | |
| Di-n-butyl phthalate | ug/L | | | | <8 | | | |
| Di-n-octyl phthalate | ug/L | | | | <8 | | | |
| Dinoseb | ug/L | | | | <.5 | | | |
| Diphenylamine | ug/L | | | | <8 | | | |
| Disulfoton | ug/L | | | | <.4 | | | |
| Endosulfan i | ug/L | | | | <.05 | | | |
| Endosulfan ii | ug/L | | | | <.05 | | | |
| Endosulfan sulfate | ug/L | | | | <.05 | | | |
| Endrin | ug/L | | | | <.05 | | | |
| Endrin aldehyde | ug/L | | | | <.05 | | | |
| Ethyl methacrylate | ug/L | | | | <10 | | | |
| Ethyl methanesulfonate | ug/L | | | | <8 | | | |
| Ethylbenzene | ug/L | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Famphur | ug/L | | | | <.4 | | | |
| Fluoranthene | ug/L | | | | <8 | | | |
| Fluorene | ug/L | | | | <8 | | | |
| Gamma-bhc (lindane) | ug/L | | | | <.05 | | | |
| Heptachlor | ug/L | | | | <.05 | | | |
| Heptachlor epoxide | ug/L | | | | <.05 | | | |
| Hexachlorobenzene | ug/L | | | | <.05 | | | |

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

## Table 1

## Analytical Data Summary for 4/9/2024

| 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 | <4 | <4 | <4 | <4 | <4 | <4 | <4 |
| Mercury, total | ug/L | | | | <.5 | | | |
| Methacrylonitrile | ug/L | | | | <1 | | | |
| Methapyrilene | ug/L | | | | <8 | | | |
| Methoxychlor | ug/L | | | | <.05 | | | |
| Methyl iodide | ug/L | <1 | <1 | <1 | <2 | <1 | <1 | <1 |
| Methyl methacrylate | ug/L | | | | <1 | | | |
| Methyl methanesulfonate | ug/L | | | | <8 | | | |
| Methyl parathion | ug/L | | | | <.4 | | | |
| Methylene chloride | ug/L | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Naphthalene | ug/L | | | | <8 | | | |
| Nickel, total | ug/L | <4.0 | <4.0 | 55.6 | 456.0 | <4.0 | <4.0 | <4.0 |
| Nitrobenzene | ug/L | | | | <8 | | | |
| N-nitrosodiethylamine | ug/L | | | | <8 | | | |
| N-nitrosodimethylamine | ug/L | | | | <8 | | | |
| N-nitrosodi-n-butylamine | ug/L | | | | <8 | | | |
| N-nitroso-di-n-propylamine | ug/L | | | | <8 | | | |
| N-nitrosodiphenylamine | ug/L | | | | <8 | | | |
| N-nitrosomethylethylamine | ug/L | | | | <8 | | | |
| N-nitrosopiperidine | ug/L | | | | <8 | | | |
| N-nitrosopyrrolidine | ug/L | | | | <8 | | | |
| O,o,o-triethyl phosphorothioate | ug/L | | | | <.4 | | | |
| O-toluidine | ug/L | | | | <8 | | | |
| 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 | <4 | <4 | <4 | <4 | <4 | <4 | <4 |
| Silver, total | ug/L | <4 | <4 | <4 | <4 | <4 | <4 | <4 |
| Styrene | ug/L | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Sulfide, total | mg/L | | | | <.3 | | | |
| Tetrachloroethene | ug/L | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Thallium, total | ug/L | <2 | <2 | <2 | <2 | <2 | <2 | <2 |
| Thionazin | ug/L | | | | <.4 | | | |
| Tin, total | ug/L | | | | <20 | | | |
| Toluene | ug/L | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Toxaphene | ug/L | | | | <.2 | | | |
| Trans-1,2-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 | <20.0 | 21.1 | 21.4 | <20.0 | <20.0 | <20.0 |

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

**Attachment B**

Summary Tables and Graphs for the Interwell Comparisons

## 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 | | |
| 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 | | |
| 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 | | |
| 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 | | |
| 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 | | |

* - 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 | 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 | | |
| 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 | | |
| 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 | | |
| 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 | | |
| 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 | ** |

* - 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 | 10/06/2021 | 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 | ** |
| 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 | | |
| 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 | | |
| 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 | | |
| 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 | | |
| Selenium, total | ug/L | MW-1 | 10/15/2014 | ND | 4.0000 | | |
| Selenium, total | ug/L | MW-1 | 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 | |
|---|---|---|---|---|---|---|---|
| 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 | | |
| 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 | | |
| 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 | | |
| Thallium, total | ug/L | MW-1 | 10/23/2023 | ND | 2.0000 | | |
| Thallium, total | ug/L | MW-1 | 04/09/2024 | ND | 2.0000 | | |
| 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 | | |

* - 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-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 | | |
| 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 | | |
| 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 | | |
| Arsenic, total | ug/L | MW-2A | 10/15/2014 | ND | 4.0000 | | |
| Arsenic, total | ug/L | MW-2A | 01/12/2015 | ND | 4.0000 | | |
| 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 | | |

* - 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 | 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 | | |
| 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 | | |
| 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 | | |
| 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 | | |
| 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 | | |
| 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 | | |

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

## Table 1

## Upgradient Data

| Constituent | Units | Well | Date | | Result | Adjusted | |
|---|---|---|---|---|---|---|---|
| Chromium, total | ug/L | MW-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 | | |
| 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 | ** |
| 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 | | |
| 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 | | |
| 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 | | |

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

## Table 1

### Upgradient Data

| Constituent | Units | Well | Date | | Result | Adjusted | |
|---|---|---|---|---|---|---|---|
| Lead, total | ug/L | MW-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 | | |
| 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 | | |
| 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 | | |
| 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 | | |
| 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 | | |

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

## Table 1

### Upgradient Data

| Constituent | Units | Well | Date | | Result | Adjusted | |
|---|---|---|---|---|---|---|---|
| Silver, total | ug/L | MW-2A | 10/23/2023 | ND | 4.0000 | | |
| Silver, total | ug/L | MW-2A | 04/09/2024 | ND | 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 | | |
| 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 | | |
| 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 | | |

* - 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 | 04/09/2024 | ND | 2.0000 | | 2.0000 |
| Arsenic, total | ug/L | MW-105B | 04/09/2024 | ND | 4.0000 | | 4.0000 |
| Barium, total | ug/L | MW-105B | 04/09/2024 | | 110.0000 | | 546.9330 |
| Beryllium, total | ug/L | MW-105B | 04/09/2024 | ND | 4.0000 | | 4.0000 |
| Cadmium, total | ug/L | MW-105B | 04/09/2024 | ND | 0.8000 | | 0.8000 |
| Chromium, total | ug/L | MW-105B | 04/09/2024 | ND | 8.0000 | | 8.0000 |
| Cobalt, total | ug/L | MW-105B | 04/09/2024 | ND | 0.4000 | | 0.9000 |
| Copper, total | ug/L | MW-105B | 04/09/2024 | ND | 4.0000 | | 8.4000 |
| Lead, total | ug/L | MW-105B | 04/09/2024 | ND | 4.0000 | | 4.0000 |
| Nickel, total | ug/L | MW-105B | 04/09/2024 | ND | 4.0000 | | 7.1000 |
| Selenium, total | ug/L | MW-105B | 04/09/2024 | ND | 4.0000 | | 4.0000 |
| Silver, total | ug/L | MW-105B | 04/09/2024 | ND | 4.0000 | | 4.0000 |
| Thallium, total | ug/L | MW-105B | 04/09/2024 | ND | 2.0000 | | 2.0000 |
| Vanadium, total | ug/L | MW-105B | 04/09/2024 | ND | 20.0000 | | 20.0000 |
| Zinc, total | ug/L | MW-105B | 04/09/2024 | ND | 20.0000 | | 21.0000 |
| Antimony, total | ug/L | MW-108A | 04/09/2024 | ND | 2.0000 | | 2.0000 |
| Arsenic, total | ug/L | MW-108A | 04/09/2024 | | 9.4000 | *** | 4.0000 |
| Barium, total | ug/L | MW-108A | 04/09/2024 | | 26.9000 | | 546.9330 |
| Beryllium, total | ug/L | MW-108A | 04/09/2024 | ND | 4.0000 | | 4.0000 |
| Cadmium, total | ug/L | MW-108A | 04/09/2024 | ND | 0.8000 | ** | 0.8000 |
| Chromium, total | ug/L | MW-108A | 04/09/2024 | ND | 8.0000 | | 8.0000 |
| Cobalt, total | ug/L | MW-108A | 04/09/2024 | | 27.6000 | *** | 0.9000 |
| Copper, total | ug/L | MW-108A | 04/09/2024 | | 6.3000 | | 8.4000 |
| Lead, total | ug/L | MW-108A | 04/09/2024 | ND | 4.0000 | | 4.0000 |
| Nickel, total | ug/L | MW-108A | 04/09/2024 | | 55.6000 | *** | 7.1000 |
| Selenium, total | ug/L | MW-108A | 04/09/2024 | ND | 4.0000 | | 4.0000 |
| Silver, total | ug/L | MW-108A | 04/09/2024 | ND | 4.0000 | | 4.0000 |
| Thallium, total | ug/L | MW-108A | 04/09/2024 | ND | 2.0000 | | 2.0000 |
| Vanadium, total | ug/L | MW-108A | 04/09/2024 | ND | 20.0000 | | 20.0000 |
| Zinc, total | ug/L | MW-108A | 04/09/2024 | | 21.1000 | *** | 21.0000 |
| Antimony, total | ug/L | MW-110A | 04/09/2024 | ND | 2.0000 | | 2.0000 |
| Arsenic, total | ug/L | MW-110A | 04/09/2024 | | 7.0000 | *** | 4.0000 |
| Barium, total | ug/L | MW-110A | 04/09/2024 | | 199.0000 | ** | 546.9330 |
| Beryllium, total | ug/L | MW-110A | 04/09/2024 | ND | 4.0000 | | 4.0000 |
| Cadmium, total | ug/L | MW-110A | 04/09/2024 | ND | 0.8000 | | 0.8000 |
| Chromium, total | ug/L | MW-110A | 04/09/2024 | ND | 8.0000 | | 8.0000 |
| Cobalt, total | ug/L | MW-110A | 04/09/2024 | | 1460.0000 | *** | 0.9000 |
| Copper, total | ug/L | MW-110A | 04/09/2024 | | 4.2000 | | 8.4000 |
| Lead, total | ug/L | MW-110A | 04/09/2024 | ND | 4.0000 | | 4.0000 |
| Nickel, total | ug/L | MW-110A | 04/09/2024 | | 456.0000 | *** | 7.1000 |
| Selenium, total | ug/L | MW-110A | 04/09/2024 | ND | 4.0000 | | 4.0000 |
| Silver, total | ug/L | MW-110A | 04/09/2024 | ND | 4.0000 | | 4.0000 |
| Thallium, total | ug/L | MW-110A | 04/09/2024 | ND | 2.0000 | | 2.0000 |
| Vanadium, total | ug/L | MW-110A | 04/09/2024 | ND | 20.0000 | | 20.0000 |
| Zinc, total | ug/L | MW-110A | 04/09/2024 | | 21.4000 | *** | 21.0000 |
| Antimony, total | ug/L | MW-3 | 04/09/2024 | ND | 2.0000 | | 2.0000 |
| Arsenic, total | ug/L | MW-3 | 04/09/2024 | ND | 4.0000 | | 4.0000 |
| Barium, total | ug/L | MW-3 | 04/09/2024 | | 47.1000 | | 546.9330 |
| Beryllium, total | ug/L | MW-3 | 04/09/2024 | ND | 4.0000 | | 4.0000 |
| Cadmium, total | ug/L | MW-3 | 04/09/2024 | ND | 0.8000 | | 0.8000 |
| Chromium, total | ug/L | MW-3 | 04/09/2024 | ND | 8.0000 | | 8.0000 |
| Cobalt, total | ug/L | MW-3 | 04/09/2024 | ND | 0.4000 | | 0.9000 |
| Copper, total | ug/L | MW-3 | 04/09/2024 | ND | 4.0000 | | 8.4000 |
| Lead, total | ug/L | MW-3 | 04/09/2024 | ND | 4.0000 | | 4.0000 |
| Nickel, total | ug/L | MW-3 | 04/09/2024 | ND | 4.0000 | | 7.1000 |
| Selenium, total | ug/L | MW-3 | 04/09/2024 | ND | 4.0000 | | 4.0000 |
| Silver, total | ug/L | MW-3 | 04/09/2024 | ND | 4.0000 | | 4.0000 |
| Thallium, total | ug/L | MW-3 | 04/09/2024 | ND | 2.0000 | | 2.0000 |
| Vanadium, total | ug/L | MW-3 | 04/09/2024 | ND | 20.0000 | | 20.0000 |
| Zinc, total | ug/L | MW-3 | 04/09/2024 | ND | 20.0000 | | 21.0000 |
| Antimony, total | ug/L | MW-4 | 04/09/2024 | ND | 2.0000 | | 2.0000 |
| Arsenic, total | ug/L | MW-4 | 04/09/2024 | ND | 4.0000 | | 4.0000 |
| Barium, total | ug/L | MW-4 | 04/09/2024 | | 150.0000 | | 546.9330 |
| Beryllium, total | ug/L | MW-4 | 04/09/2024 | ND | 4.0000 | | 4.0000 |
| Cadmium, total | ug/L | MW-4 | 04/09/2024 | ND | 0.8000 | | 0.8000 |
| Chromium, total | ug/L | MW-4 | 04/09/2024 | ND | 8.0000 | | 8.0000 |
| Cobalt, total | ug/L | MW-4 | 04/09/2024 | ND | 0.4000 | | 0.9000 |
| Copper, total | ug/L | MW-4 | 04/09/2024 | ND | 4.0000 | | 8.4000 |
| Lead, total | ug/L | MW-4 | 04/09/2024 | ND | 4.0000 | | 4.0000 |
| Nickel, total | ug/L | MW-4 | 04/09/2024 | ND | 4.0000 | | 7.1000 |
| Selenium, total | ug/L | MW-4 | 04/09/2024 | ND | 4.0000 | | 4.0000 |
| Silver, total | ug/L | MW-4 | 04/09/2024 | ND | 4.0000 | | 4.0000 |

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

## Table 2

### Most Current Downgradient Monitoring Data

| Constituent | Units | Well | Date | | Result | | Pred. Limit |
|---|---|---|---|---|---|---|---|
| Thallium, total | ug/L | MW-4 | 04/09/2024 | ND | 2.0000 | | 2.0000 |
| Vanadium, total | ug/L | MW-4 | 04/09/2024 | ND | 20.0000 | | 20.0000 |
| Zinc, total | ug/L | MW-4 | 04/09/2024 | ND | 20.0000 | | 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 | 0 | 44 | 0.000 | 0 | 130 | 0.000 |
| Arsenic, total | 0 | 44 | 0.000 | 103 | 192 | 0.536 |
| Barium, total | 44 | 44 | 1.000 | 216 | 216 | 1.000 |
| Beryllium, total | 0 | 44 | 0.000 | 0 | 130 | 0.000 |
| Cadmium, total | 0 | 43 | 0.000 | 17 | 143 | 0.119 |
| Chromium, total | 0 | 44 | 0.000 | 17 | 166 | 0.102 |
| Cobalt, total | 1 | 44 | 0.023 | 159 | 224 | 0.710 |
| Copper, total | 1 | 42 | 0.024 | 47 | 176 | 0.267 |
| Lead, total | 0 | 44 | 0.000 | 22 | 154 | 0.143 |
| Nickel, total | 4 | 44 | 0.091 | 132 | 218 | 0.606 |
| Selenium, total | 0 | 44 | 0.000 | 0 | 130 | 0.000 |
| Silver, total | 0 | 44 | 0.000 | 0 | 130 | 0.000 |
| Thallium, total | 0 | 44 | 0.000 | 0 | 130 | 0.000 |
| Vanadium, total | 0 | 44 | 0.000 | 15 | 154 | 0.097 |
| Zinc, total | 2 | 44 | 0.045 | 90 | 217 | 0.415 |

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

## Table 4

### Shapiro-Wilk Multiple Group Test of Normality

| Constituent | Detect | N | Detect Freq | G raw | G log | G cbrt | G sqrt | G sqr | G cub | Crit Value | Dist Form | Model Type |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Antimony, total | 0 | 44 | 0.000 | | | | | | | | | nonpar |
| Arsenic, total | 0 | 44 | 0.000 | | | | | | | | | nonpar |
| Barium, total | 44 | 44 | 1.000 | 1.049 | 1.479 | | | | | 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 | 44 | 0.023 | | | | | | | | | nonpar |
| Copper, total | 1 | 42 | 0.024 | | | | | | | | | nonpar |
| Lead, total | 0 | 44 | 0.000 | | | | | | | | | nonpar |
| Nickel, total | 4 | 44 | 0.091 | 1.215 | 0.965 | | | | | 2.326 | normal | nonpar |
| Selenium, total | 0 | 44 | 0.000 | | | | | | | | | nonpar |
| Silver, total | 0 | 44 | 0.000 | | | | | | | | | nonpar |
| Thallium, total | 0 | 44 | 0.000 | | | | | | | | | nonpar |
| Vanadium, total | 0 | 44 | 0.000 | | | | | | | | | nonpar |
| Zinc, total | 2 | 44 | 0.045 | | | | | | | | | nonpar |

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

## Table 5

### Summary Statistics and Prediction Limits

| Constituent | Units | Detect | N | Mean | SD | alpha | Factor | Pred Limit | Type | | Conf |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Antimony, total | ug/L | 0 | 44 | | | | | 2.0000 | nonpar | *** | 0.99 |
| Arsenic, total | ug/L | 0 | 44 | | | | | 4.0000 | nonpar | *** | 0.99 |
| Barium, total | ug/L | 44 | 44 | 194.4273 | 144.2646 | 0.0100 | 2.4435 | 546.9330 | 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 | 44 | | | | | 0.9000 | nonpar | | 0.99 |
| Copper, total | ug/L | 1 | 42 | | | | | 8.4000 | nonpar | | 0.99 |
| Lead, total | ug/L | 0 | 44 | | | | | 4.0000 | nonpar | *** | 0.99 |
| Nickel, total | ug/L | 4 | 44 | | | | | 7.1000 | nonpar | | 0.99 |
| Selenium, total | ug/L | 0 | 44 | | | | | 4.0000 | nonpar | *** | 0.99 |
| Silver, total | ug/L | 0 | 44 | | | | | 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 | 2 | 44 | | | | | 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 |
|---|---|---|---|---|---|---|---|---|
| Copper, total | ug/L | MW-2A | 04/11/2016 | 27.3000 | | 10/15/2014-04/09/2024 | 22 | 0.5263 |
| Copper, total | ug/L | MW-2A | 04/19/2023 | 12.6000 | | 10/15/2014-04/09/2024 | 22 | 0.5263 |

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 |
| 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 |
| Cadmium, total | ug/L | MW-108A | 04/09/2024 | ND | 0.8000 | | 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 |
|---|---|---|---|---|---|---|---|
| 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 |
| 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 |
| 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 |

* - 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 | 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 |
| 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 |
| Arsenic, total | ug/L | MW-110A | 09/01/2005 | | 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 |

* - 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 | 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 | ND | 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 |
| Barium, total | ug/L | MW-110A | 09/01/2005 | | 234.0000 | | 546.9330 |
| Barium, total | ug/L | MW-110A | 04/01/2006 | | 186.0000 | | 546.9330 |
| Barium, total | ug/L | MW-110A | 09/01/2006 | | 265.0000 | | 546.9330 |
| Barium, total | ug/L | MW-110A | 04/01/2007 | | 277.0000 | | 546.9330 |
| Barium, total | ug/L | MW-110A | 09/01/2007 | | 323.0000 | | 546.9330 |
| Barium, total | ug/L | MW-110A | 04/01/2008 | | 425.0000 | | 546.9330 |
| Barium, total | ug/L | MW-110A | 10/01/2008 | | 399.0000 | | 546.9330 |
| Barium, total | ug/L | MW-110A | 04/04/2009 | | 391.0000 | | 546.9330 |
| Barium, total | ug/L | MW-110A | 06/09/2009 | | 952.0000 | * | 546.9330 |
| Barium, total | ug/L | MW-110A | 07/09/2009 | | 671.0000 | * | 546.9330 |
| Barium, total | ug/L | MW-110A | 10/09/2009 | | 795.0000 | * | 546.9330 |
| Barium, total | ug/L | MW-110A | 04/10/2010 | | 501.0000 | | 546.9330 |
| Barium, total | ug/L | MW-110A | 04/13/2010 | | 501.0000 | | 546.9330 |
| Barium, total | ug/L | MW-110A | 06/10/2010 | | 438.0000 | | 546.9330 |
| Barium, total | ug/L | MW-110A | 06/29/2010 | | 438.0000 | | 546.9330 |
| Barium, total | ug/L | MW-110A | 09/10/2010 | | 359.0000 | | 546.9330 |
| Barium, total | ug/L | MW-110A | 09/27/2010 | | 359.0000 | | 546.9330 |
| Barium, total | ug/L | MW-110A | 04/01/2011 | | 405.0000 | | 546.9330 |
| Barium, total | ug/L | MW-110A | 04/11/2011 | | 405.0000 | | 546.9330 |
| Barium, total | ug/L | MW-110A | 09/01/2011 | | 417.0000 | | 546.9330 |
| Barium, total | ug/L | MW-110A | 04/09/2012 | | 515.0000 | | 546.9330 |
| Barium, total | ug/L | MW-110A | 09/10/2012 | | 452.0000 | | 546.9330 |
| Barium, total | ug/L | MW-110A | 04/15/2013 | | 477.0000 | | 546.9330 |
| Barium, total | ug/L | MW-110A | 10/07/2013 | | 538.0000 | | 546.9330 |
| Barium, total | ug/L | MW-110A | 04/17/2014 | | 969.0000 | * | 546.9330 |
| Barium, total | ug/L | MW-110A | 10/15/2014 | | 1780.0000 | * | 546.9330 |
| Barium, total | ug/L | MW-110A | 04/13/2015 | | 1000.0000 | * | 546.9330 |
| Barium, total | ug/L | MW-110A | 09/22/2015 | | 829.0000 | * | 546.9330 |
| Barium, total | ug/L | MW-110A | 04/11/2016 | | 639.0000 | * | 546.9330 |
| Barium, total | ug/L | MW-110A | 10/12/2016 | | 748.0000 | * | 546.9330 |
| Barium, total | ug/L | MW-110A | 04/13/2017 | | 890.0000 | * | 546.9330 |

* - Significantly increased over background.
** - Detect at limit for 100% NDs in background (NPPL only).
*** - Manual exclusion.
ND = Not Detected, Result = detection limit.

## Table 8

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

| Constituent | Units | Well | Date | | Result | | Pred. Limit |
|---|---|---|---|---|---|---|---|
| Barium, total | ug/L | MW-110A | 10/25/2017 | | 784.0000 | * | 546.9330 |
| Barium, total | ug/L | MW-110A | 04/12/2018 | | 733.0000 | * | 546.9330 |
| Barium, total | ug/L | MW-110A | 10/16/2018 | | 650.0000 | * | 546.9330 |
| Barium, total | ug/L | MW-110A | 04/18/2019 | | 551.0000 | * | 546.9330 |
| Barium, total | ug/L | MW-110A | 10/15/2019 | | 803.0000 | * | 546.9330 |
| Barium, total | ug/L | MW-110A | 04/06/2020 | | 816.0000 | * | 546.9330 |
| Barium, total | ug/L | MW-110A | 10/15/2020 | | 701.0000 | * | 546.9330 |
| Barium, total | ug/L | MW-110A | 04/12/2021 | | 713.0000 | * | 546.9330 |
| Barium, total | ug/L | MW-110A | 10/06/2021 | | 714.0000 | * | 546.9330 |
| Barium, total | ug/L | MW-110A | 04/14/2022 | | 520.0000 | | 546.9330 |
| Barium, total | ug/L | MW-110A | 10/25/2022 | | 675.0000 | * | 546.9330 |
| Barium, total | ug/L | MW-110A | 04/19/2023 | | 537.0000 | | 546.9330 |
| Barium, total | ug/L | MW-110A | 10/23/2023 | | 842.0000 | * | 546.9330 |
| Barium, total | ug/L | MW-110A | 04/09/2024 | | 199.0000 | | 546.9330 |
| 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 |
| 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 |
| 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 |

* - 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 | 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 |
| 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 |
| 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 |

* - Significantly increased over background.
** - Detect at limit for 100% NDs in background (NPPL only).
*** - Manual exclusion.
ND = Not Detected, Result = detection limit.

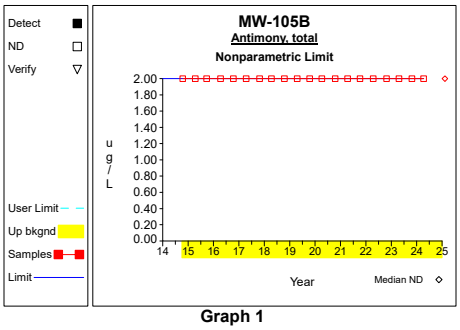
## Table 8

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

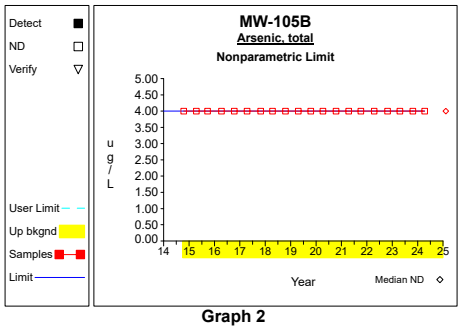
| Constituent | Units | Well | Date | | Result | | Pred. Limit |
|---|---|---|---|---|---|---|---|
| Zinc, total | ug/L | MW-110A | 04/12/2021 | ND | 20.0000 | | 21.0000 |
| Zinc, total | ug/L | MW-110A | 10/06/2021 | ND | 20.0000 | | 21.0000 |
| Zinc, total | ug/L | MW-110A | 04/14/2022 | ND | 20.0000 | | 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 |

* - Significantly increased over background.
** - Detect at limit for 100% NDs in background (NPPL only).
*** - Manual exclusion.
ND = Not Detected, Result = detection limit.

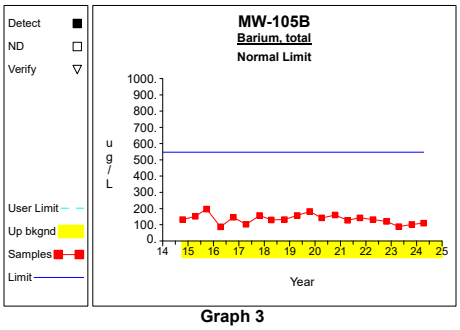
# Up vs. Down Prediction Limits



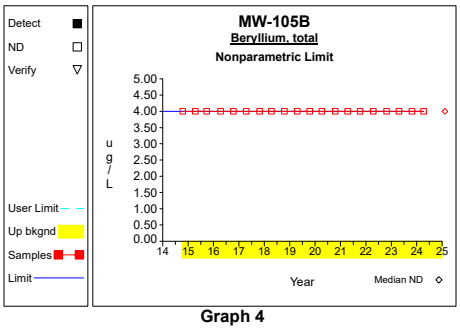

Graph 1



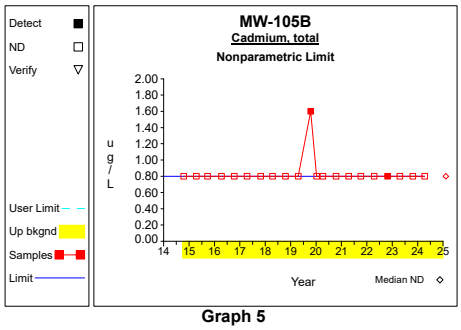

Graph 2



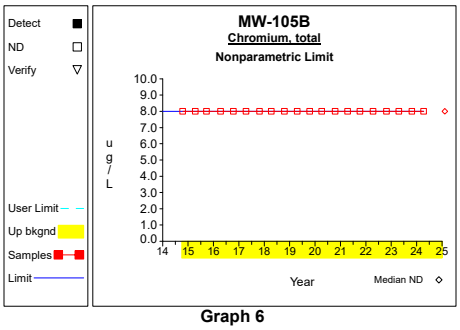

Graph 3



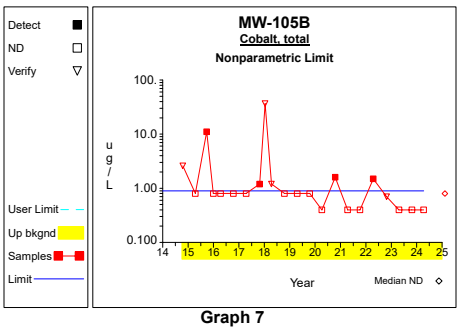

Graph 4



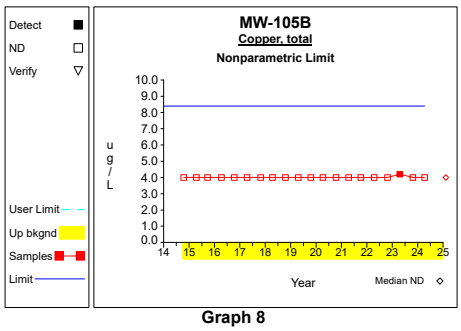

Graph 5



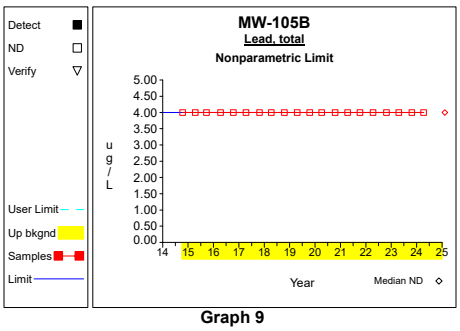

Graph 6



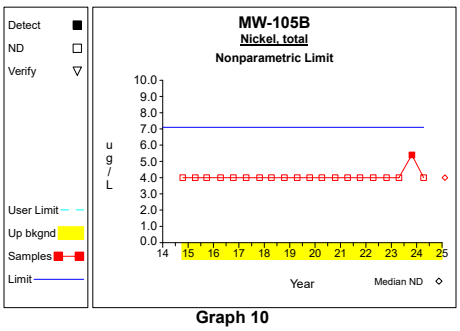

Graph 7



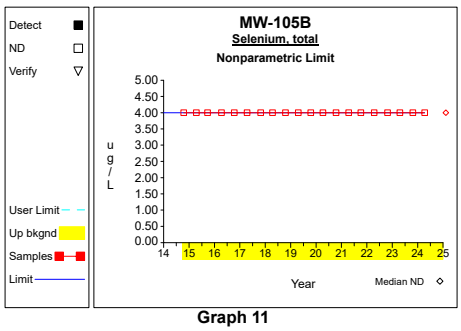

Graph 8



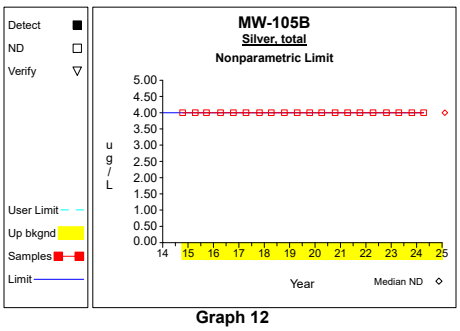

Graph 9



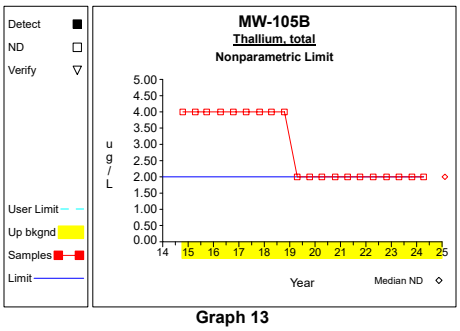

Graph 10



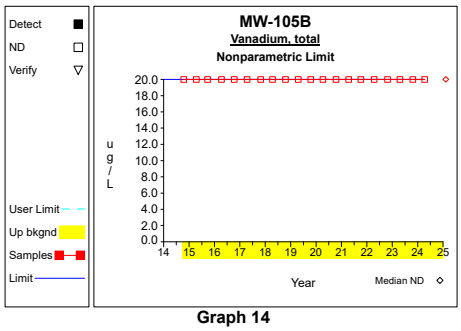

Graph 11



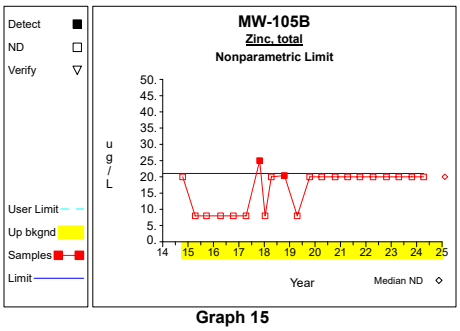

Graph 12




Graph 13



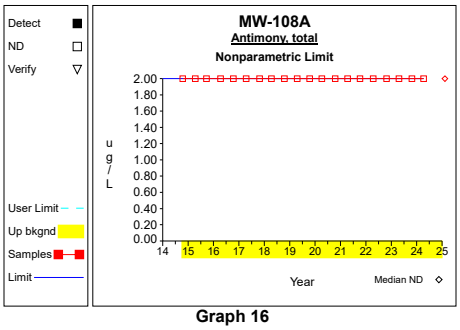

Graph 14



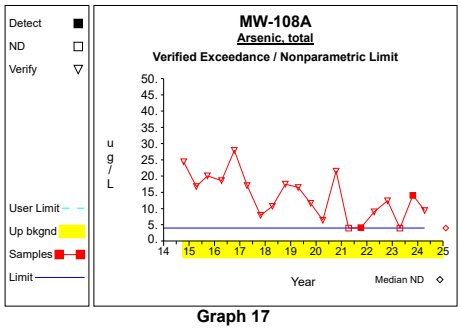

Graph 15

Prepared by: Otter Creek Environmental

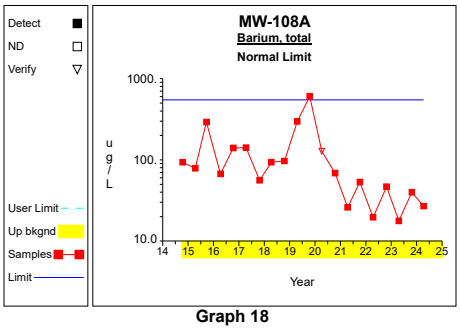
# Up vs. Down Prediction Limits



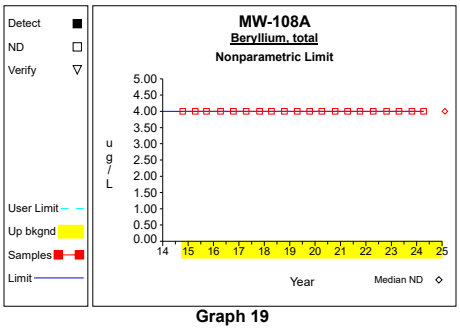

Graph 16



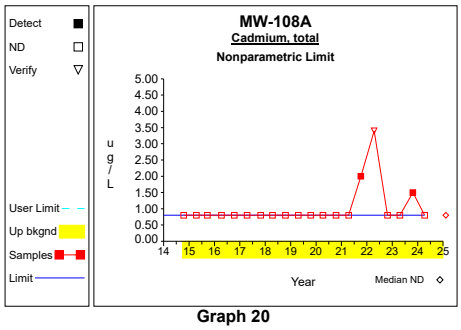

Graph 17



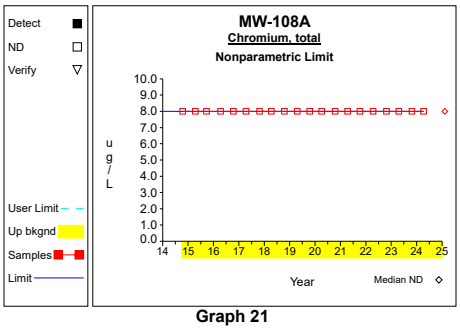

Graph 18



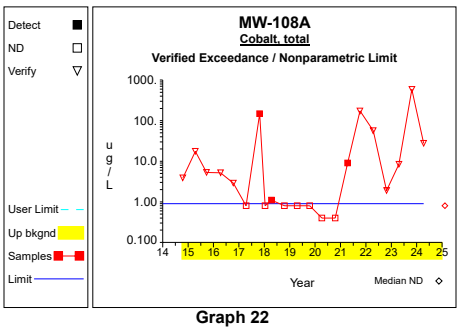

Graph 19



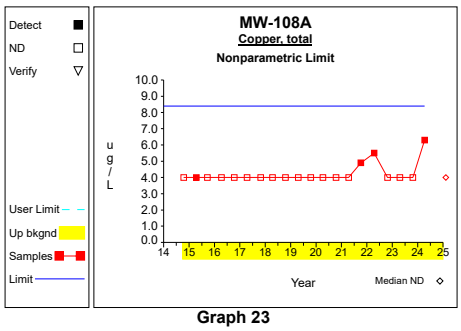

Graph 20



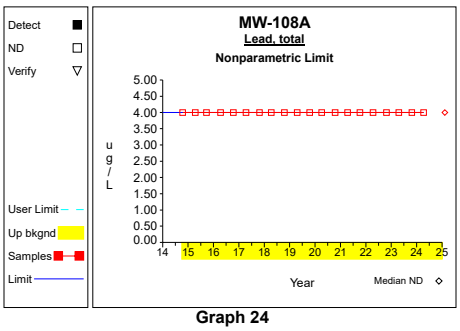

Graph 21



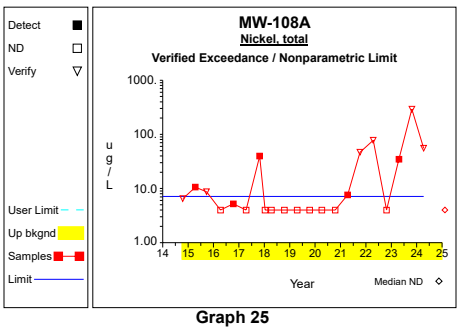

Graph 22



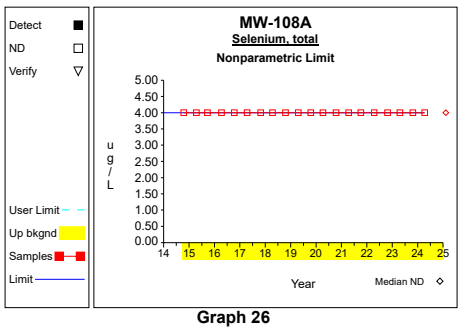

Graph 23



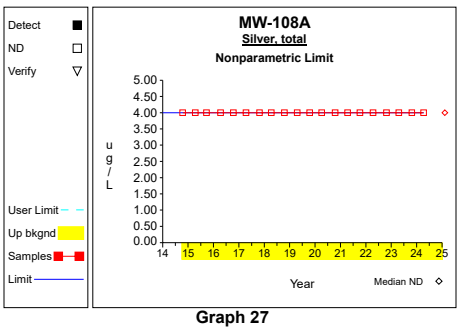

Graph 24



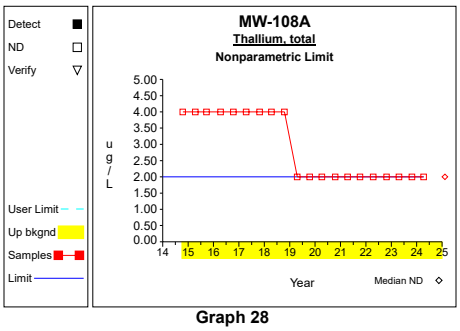

Graph 25



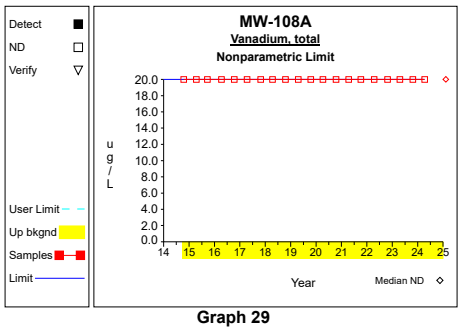

Graph 26



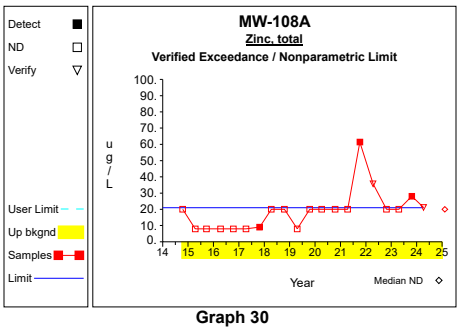

Graph 27




Graph 28



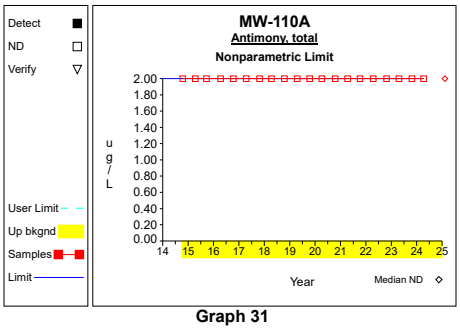

Graph 29



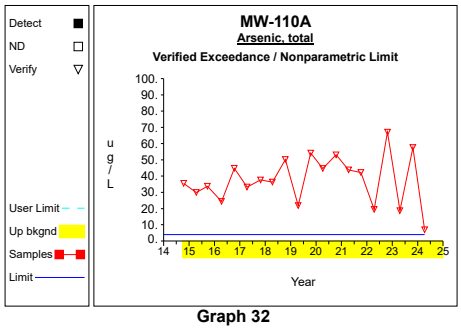

Graph 30

Prepared by: Otter Creek Environmental

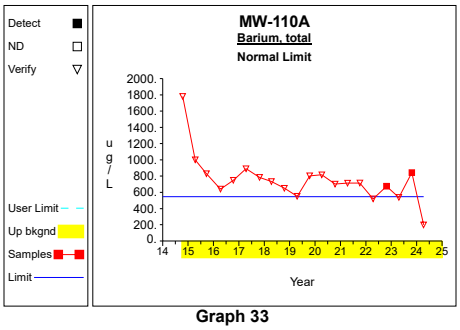
# Up vs. Down Prediction Limits



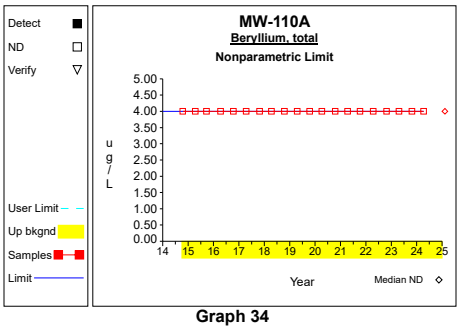

Graph 31



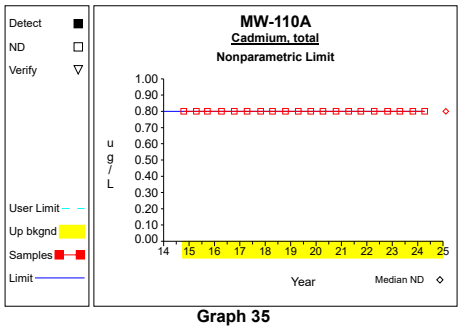

Graph 32



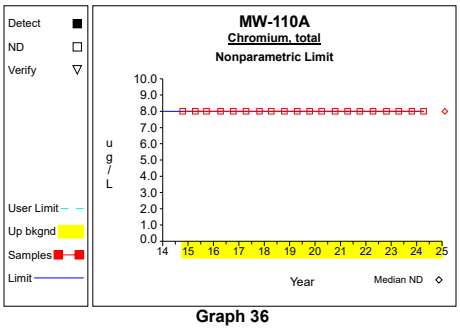

Graph 33



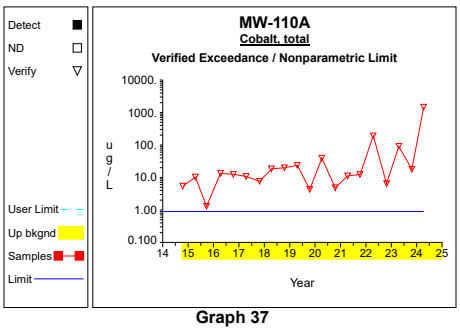

Graph 34



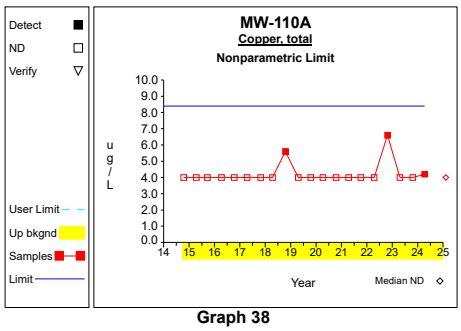

Graph 35



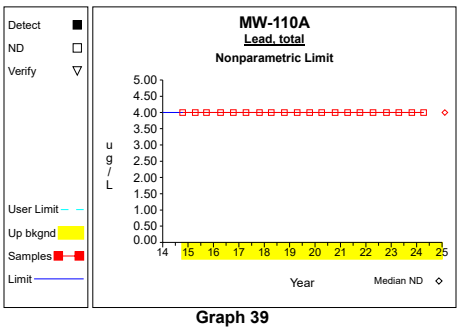

Graph 36



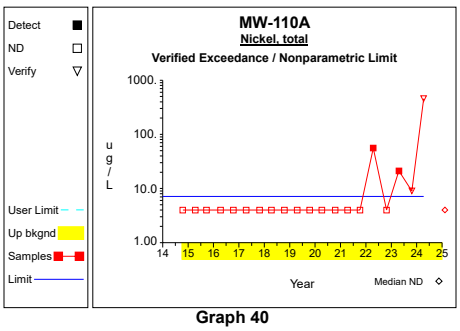

Graph 37



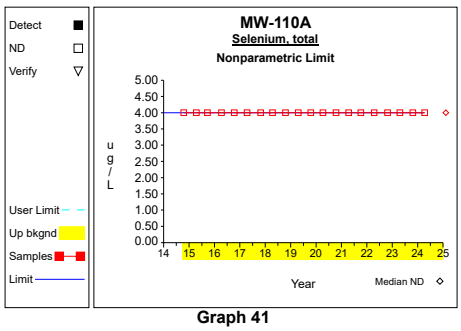

Graph 38



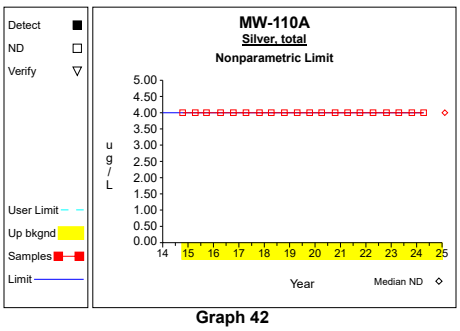

Graph 39



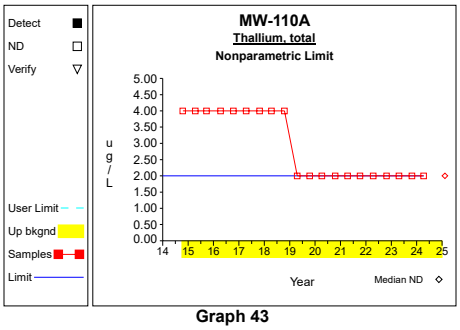

Graph 40



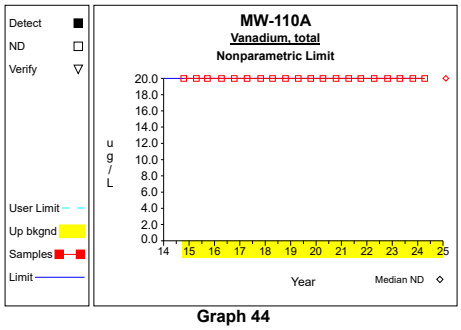

Graph 41



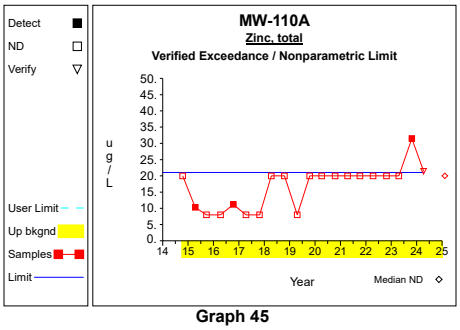

Graph 42




Graph 43



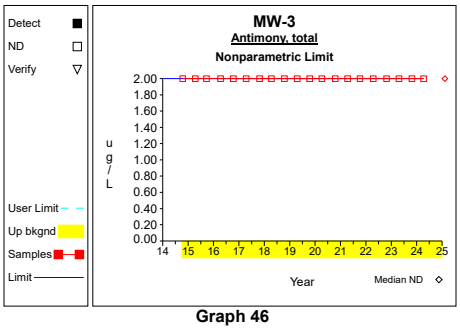

Graph 44



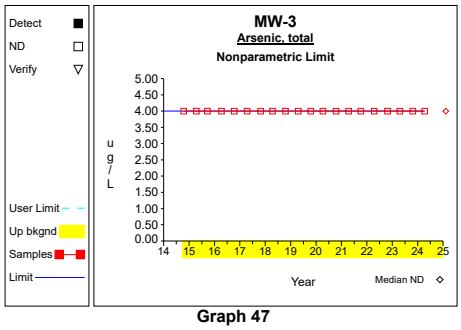

Graph 45

Prepared by: Otter Creek Environmental

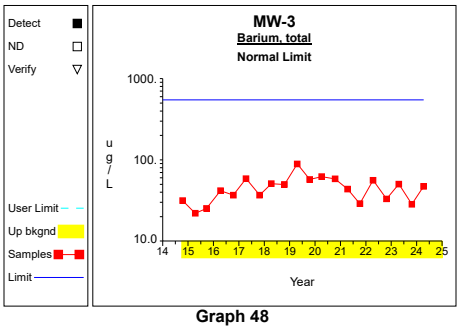
# Up vs. Down Prediction Limits



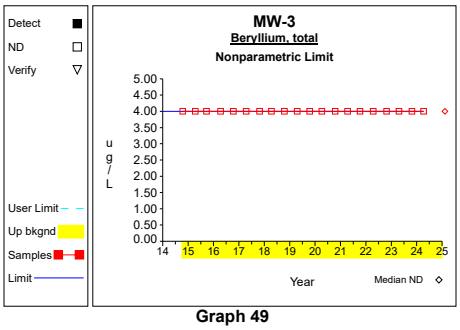

Graph 46



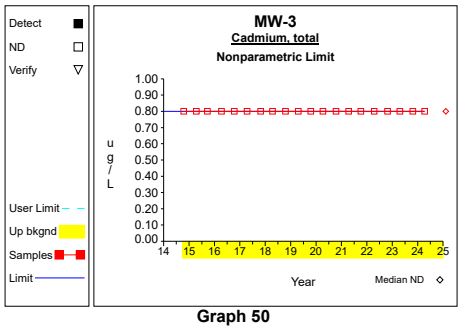

Graph 47



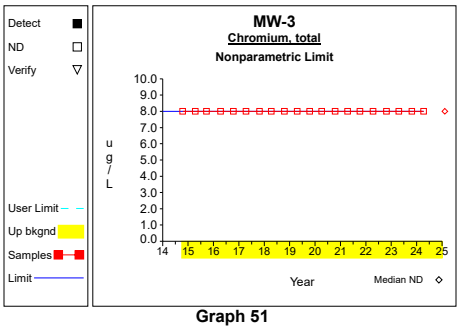

Graph 48



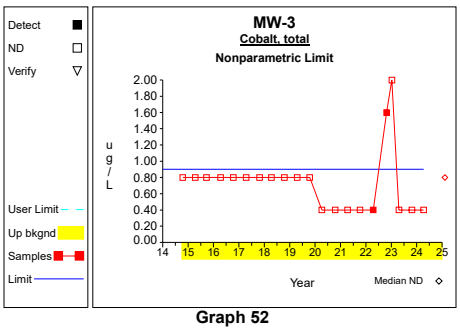

Graph 49



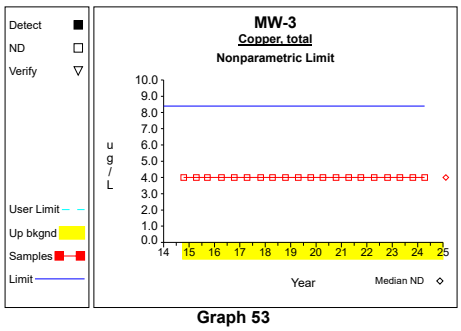

Graph 50



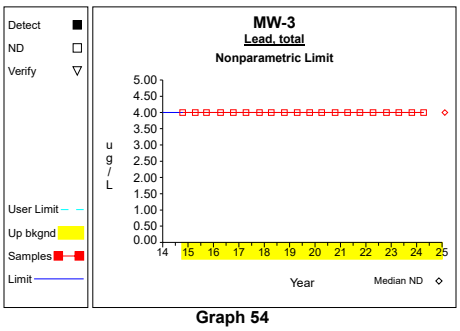

Graph 51



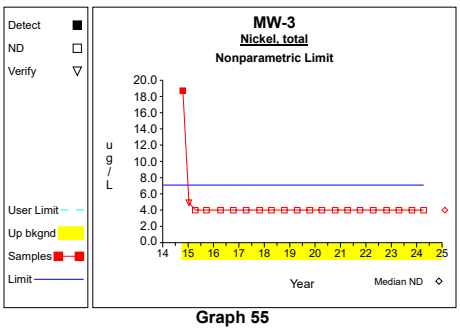

Graph 52



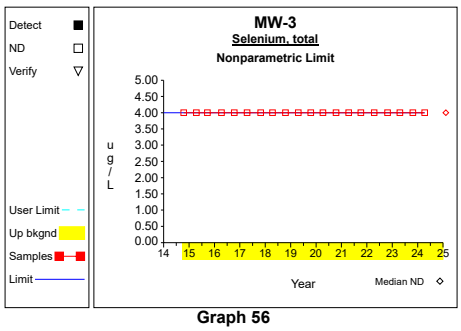

Graph 53



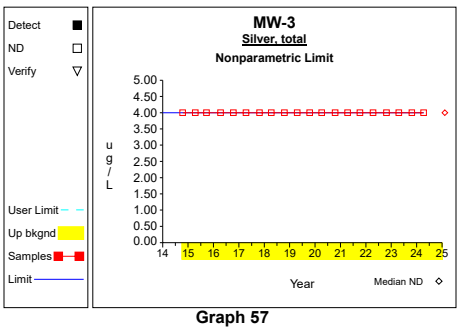

Graph 54



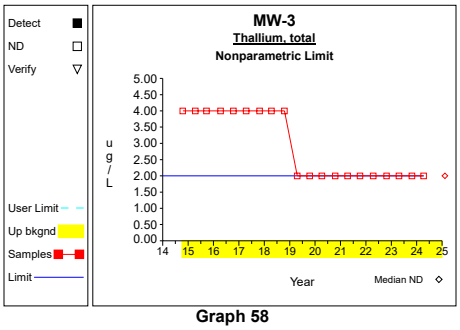

Graph 55



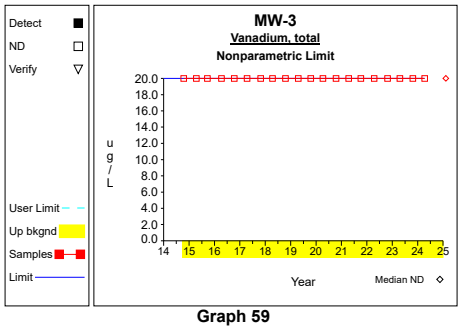

Graph 56



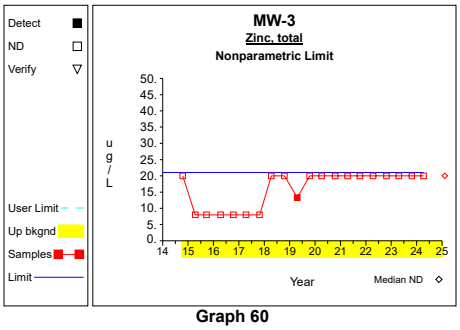

Graph 57




Graph 58



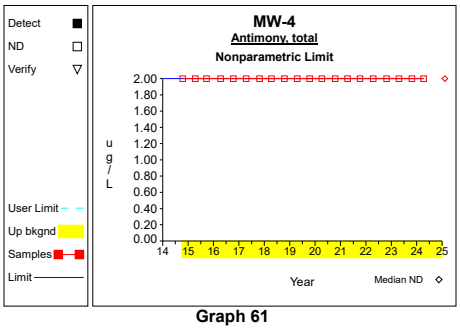

Graph 59



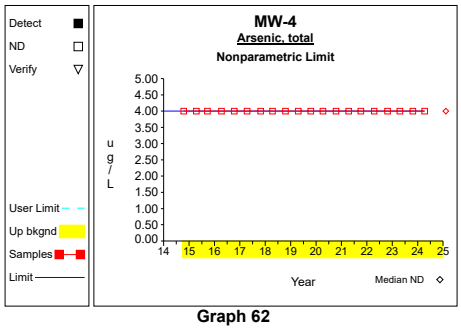

Graph 60

Prepared by: Otter Creek Environmental

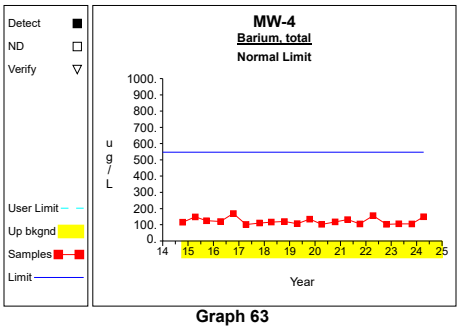
# Up vs. Down Prediction Limits



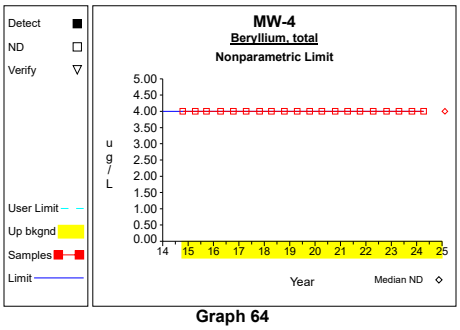

Graph 61



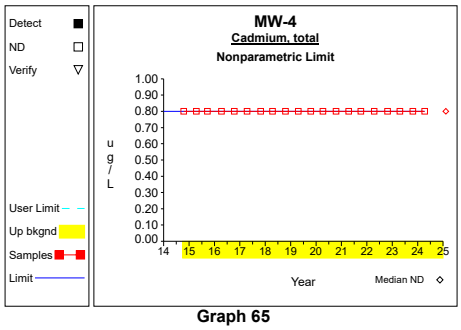

Graph 62



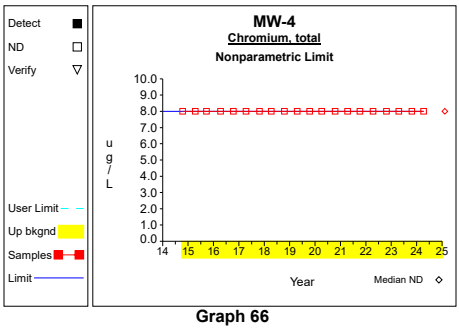

Graph 63



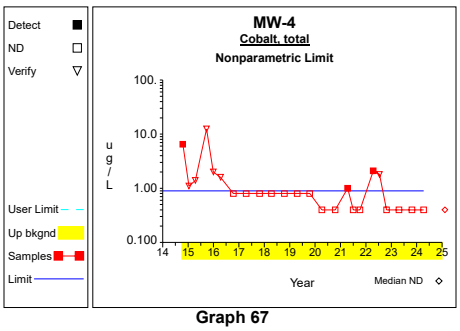

Graph 64



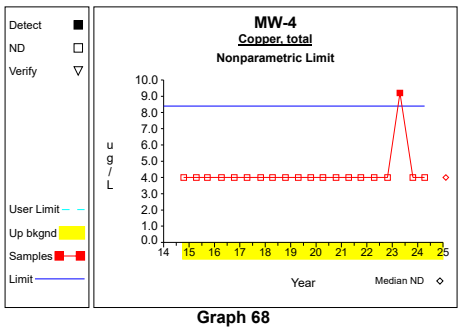

Graph 65



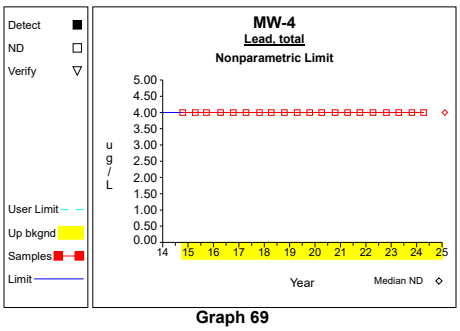

Graph 66



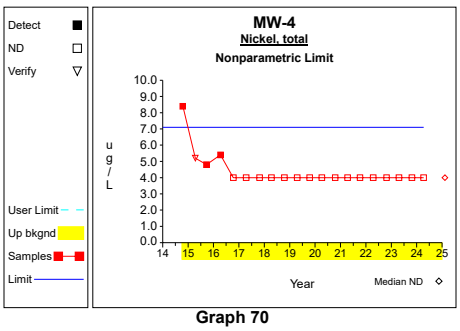

Graph 67



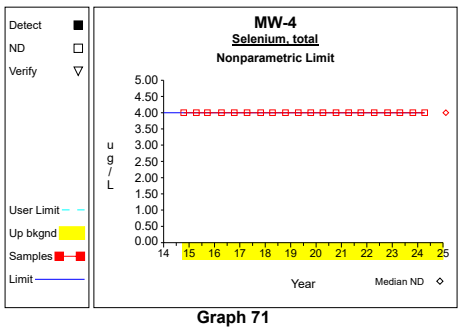

Graph 68



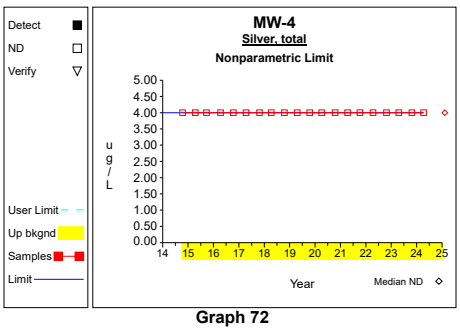

Graph 69



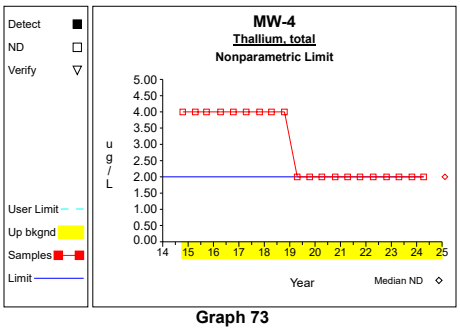

Graph 70



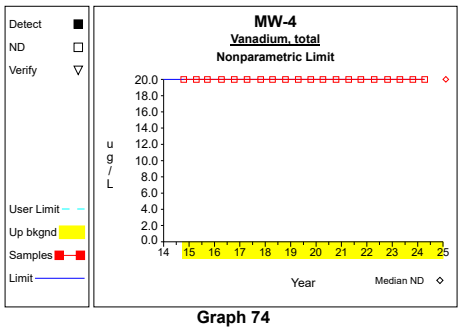

Graph 71



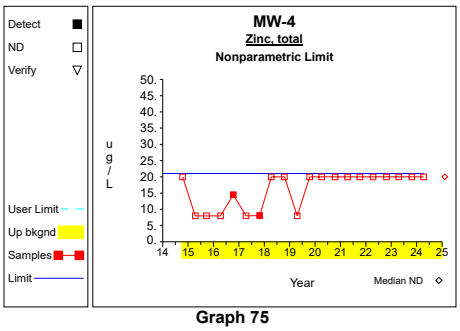

Graph 72




Graph 73




Graph 74

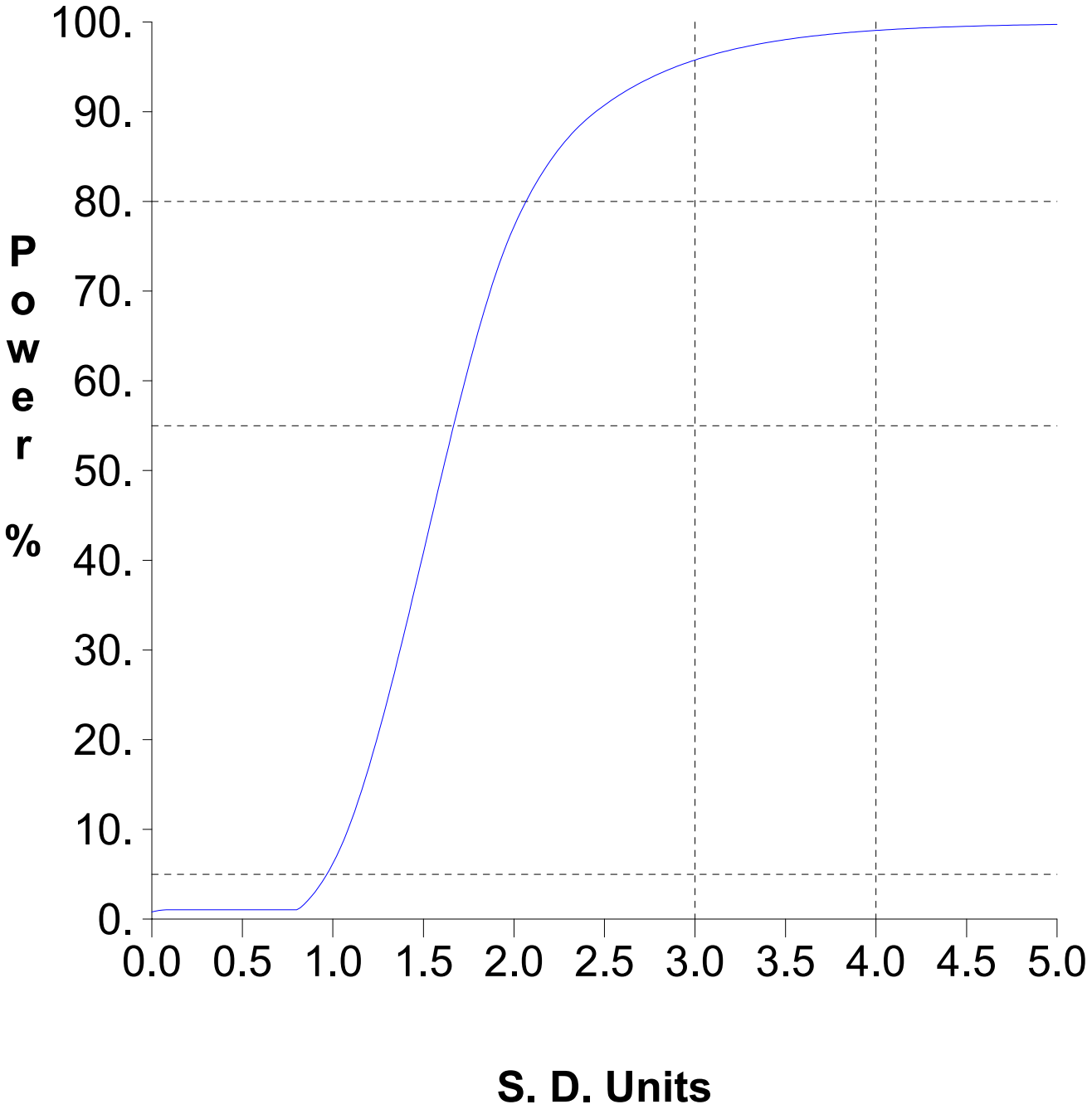



Graph 75

Prepared by: Otter Creek Environmental

# False Positive and False Negative Rates for Current

## Upgradient vs. Downgradient Monitoring Program



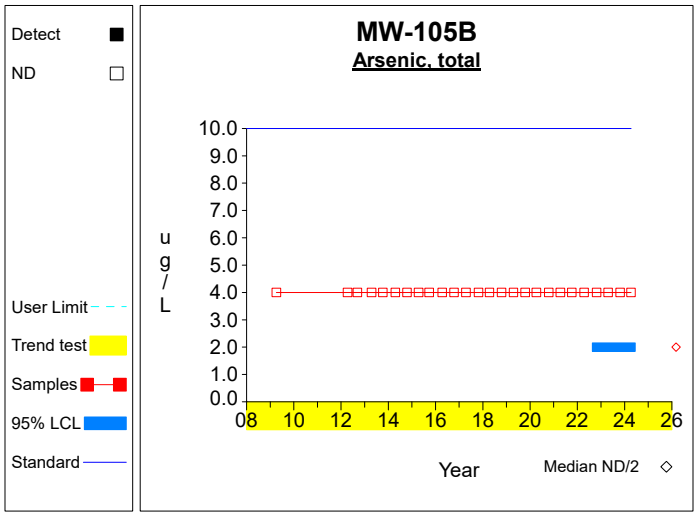
## Table 1

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

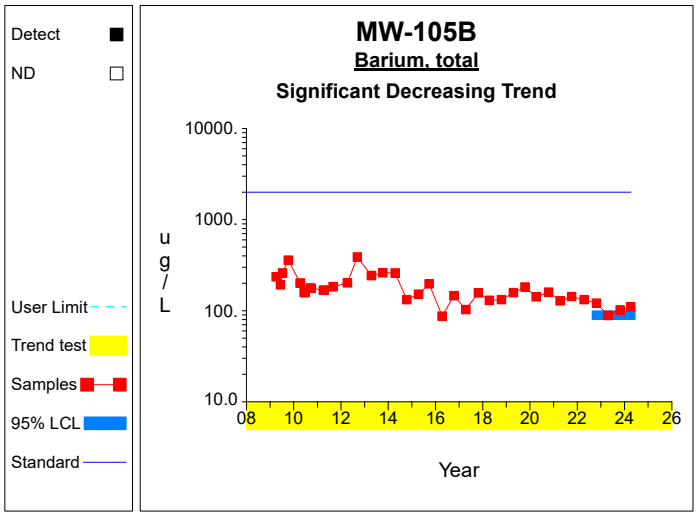
| Constituent | Units | Well | N | Mean | SD | Factor | 95% LCL | 95% UCL | Standard | Trend |
|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic, total | ug/L | MW-105B | 4 | 2.000 | 0.000 | 1.176 | 2.000 | 2.000 | 10.000 | |
| Barium, total | ug/L | MW-105B | 4 | 105.425 | 13.601 | 1.176 | 89.426 | 121.424 | 2000.000 | dec |
| Cadmium, total | ug/L | MW-105B | 4 | 0.500 | 0.200 | 1.176 | 0.265 | 0.735 | 5.000 | |
| Cobalt, total | ug/L | MW-105B | 4 | 0.475 | 0.150 | 1.176 | 0.299 | 0.651 | 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 | 5.000 | 0.000 | 1.176 | 5.000 | 5.000 | 2000.000 | |
| Arsenic, total | ug/L | MW-108A | 4 | 9.475 | 5.349 | 1.176 | 3.183 | 15.767 | 10.000 | |
| Barium, total | ug/L | MW-108A | 4 | 32.800 | 12.993 | 1.176 | 17.517 | 48.083 | 2000.000 | |
| Cadmium, total | ug/L | MW-108A | 4 | 0.675 | 0.550 | 1.176 | 0.028 | 1.322 | 5.000 | |
| Cobalt, total | ug/L | MW-108A | 4 | 155.975 | 286.891 | 1.176 | 0.000 | 493.441 | 2.100 | |
| Nickel, total | ug/L | MW-108A | 4 | 96.050 | 132.482 | 1.176 | 0.000 | 251.887 | 100.000 | |
| Zinc, total | ug/L | MW-108A | 4 | 14.800 | 11.671 | 1.176 | 1.071 | 28.529 | 2000.000 | |
| Arsenic, total | ug/L | MW-110A | 4 | 37.600 | 29.234 | 1.176 | 3.213 | 71.987 | 10.000 | inc |
| Barium, total | ug/L | MW-110A | 4 | 563.250 | 272.982 | 1.176 | 242.145 | 884.355 | 2000.000 | inc |
| Cadmium, total | ug/L | MW-110A | 4 | 0.400 | 0.000 | 1.176 | 0.400 | 0.400 | 5.000 | |
| Cobalt, total | ug/L | MW-110A | 4 | 393.975 | 711.678 | 1.176 | 0.000 | 1231.113 | 2.100 | dec |
| Nickel, total | ug/L | MW-110A | 4 | 122.050 | 222.775 | 1.176 | 0.000 | 384.097 | 100.000 | dec |
| Zinc, total | ug/L | MW-110A | 4 | 18.225 | 10.354 | 1.176 | 6.046 | 30.404 | 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 | 39.700 | 10.641 | 1.176 | 27.183 | 52.217 | 2000.000 | dec |
| Cadmium, total | ug/L | MW-3 | 4 | 0.400 | 0.000 | 1.176 | 0.400 | 0.400 | 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 | 10.000 | 0.000 | 1.176 | 10.000 | 10.000 | 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 | 116.000 | 22.701 | 1.176 | 89.297 | 142.703 | 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 | 0.400 | 0.000 | 1.176 | 0.400 | 0.400 | 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 | 10.000 | 0.000 | 1.176 | 10.000 | 10.000 | 2000.000 | |

* - Insufficient Data
** - Significant Exceedance
LCL = Lower Confidence Limit
UCL = Upper Confidence Limit

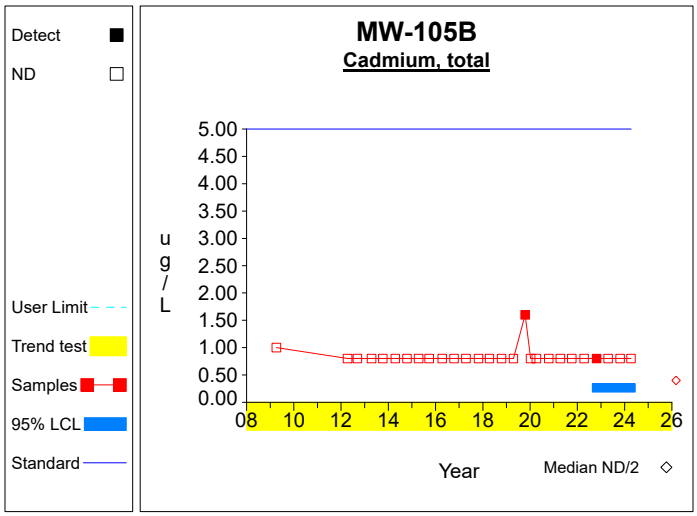
# Confidence Limits (Assessment)



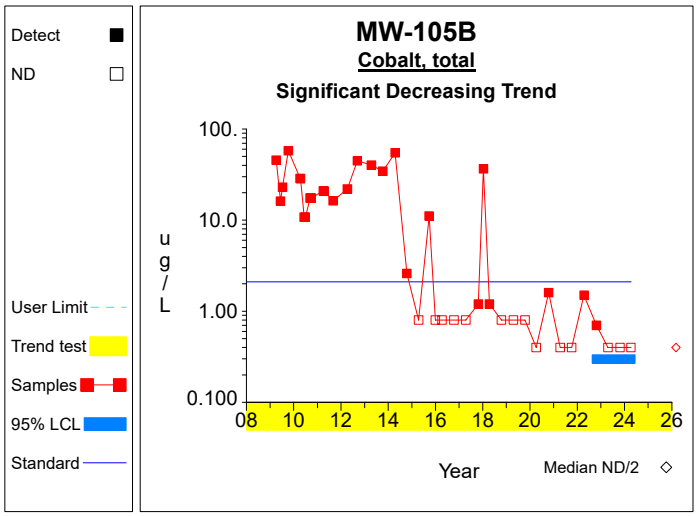

Graph 1



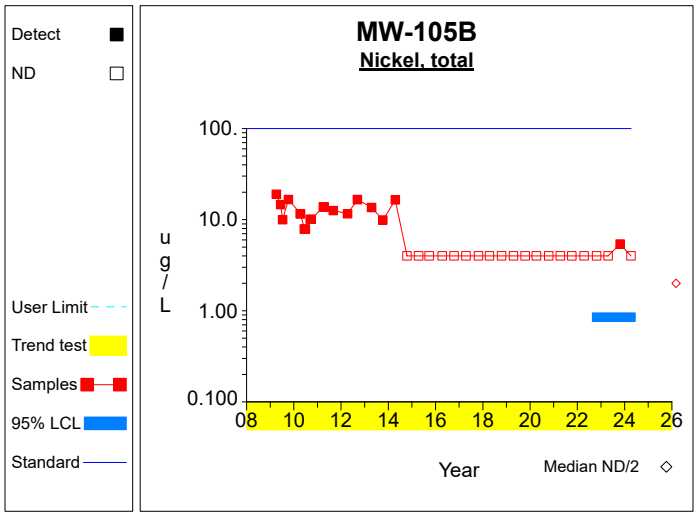

Graph 2



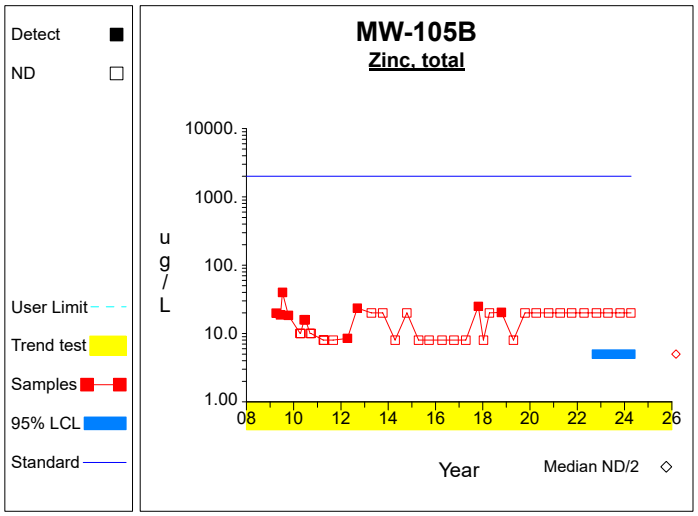

Graph 3




Graph 4



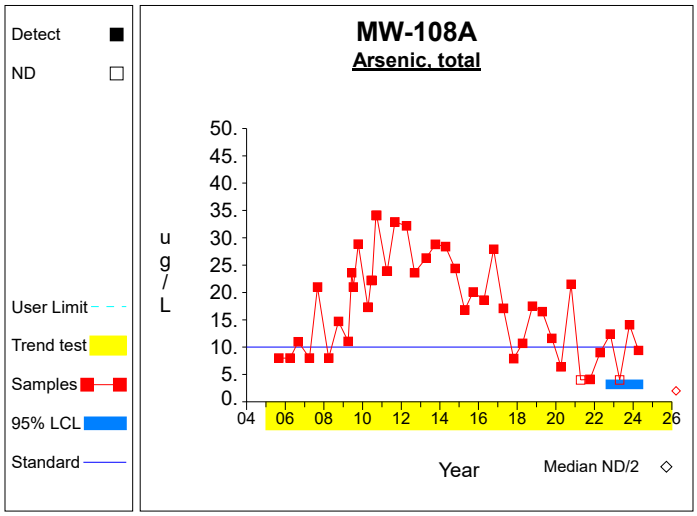

Graph 5



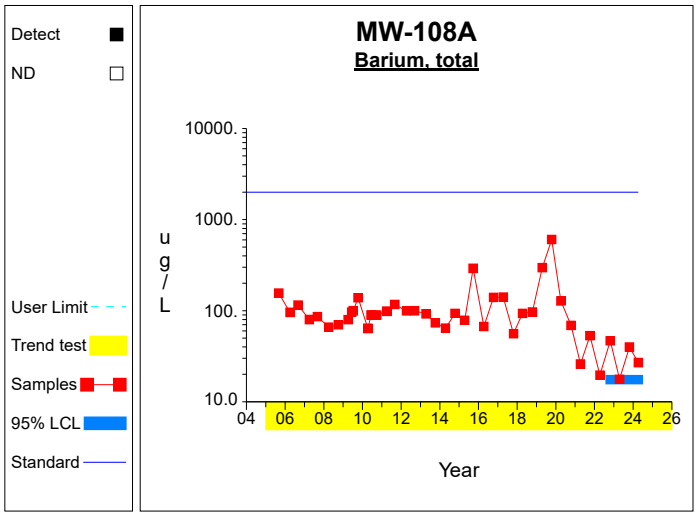

Graph 6

Prepared by: Otter Creek Environmental

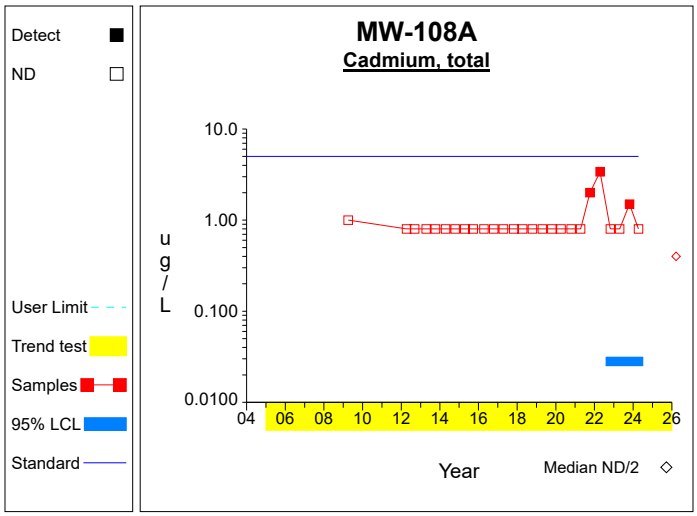
# Confidence Limits (Assessment)



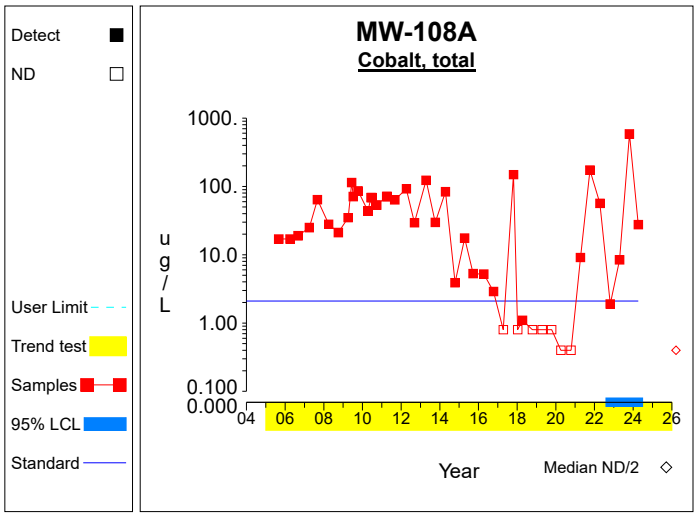

Graph 7



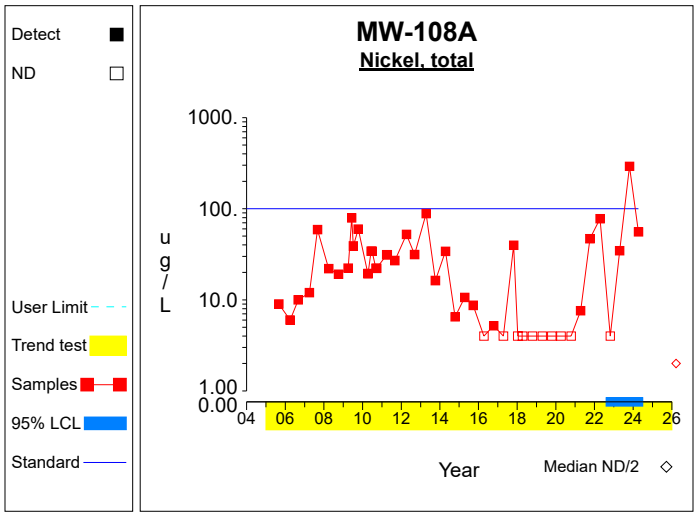

Graph 8



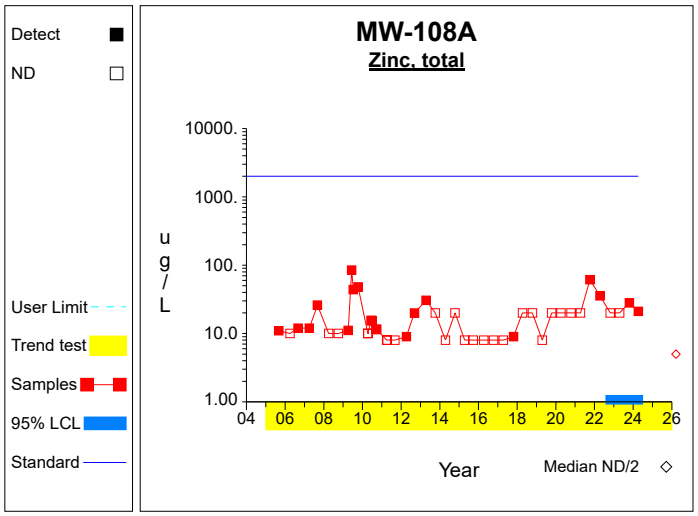

Graph 9




Graph 10



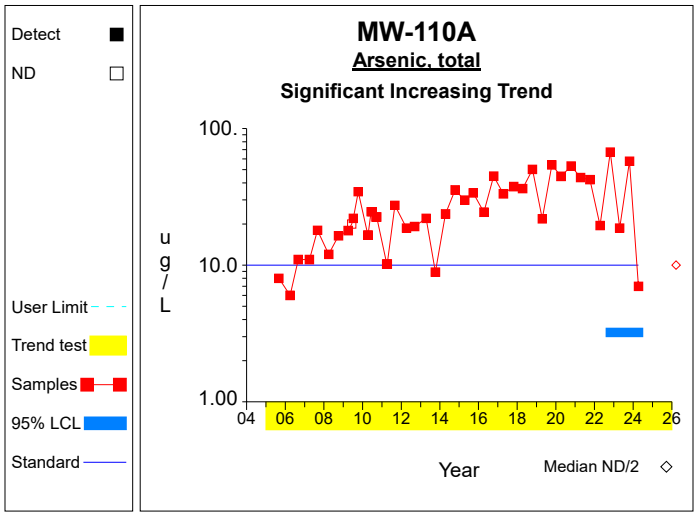

Graph 11



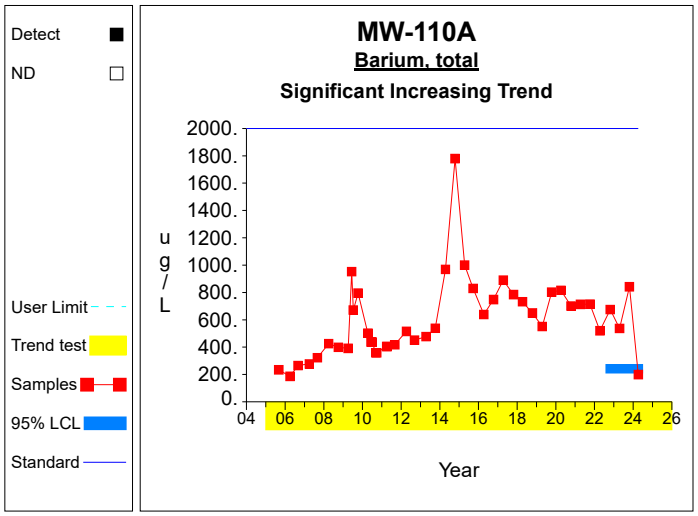

Graph 12

Prepared by: Otter Creek Environmental

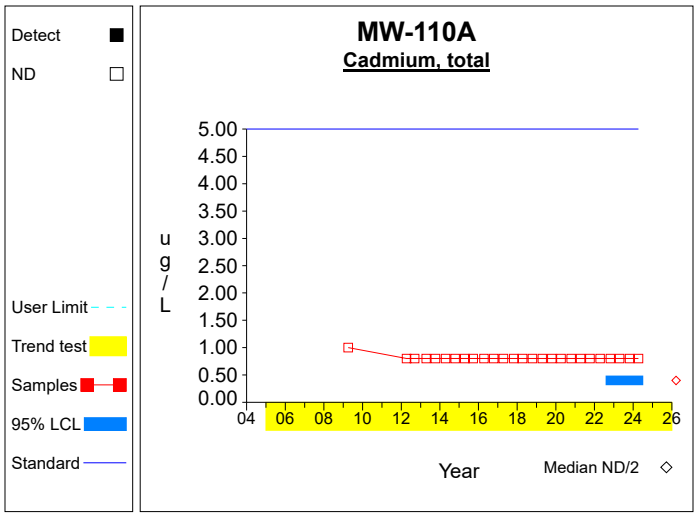
# Confidence Limits (Assessment)



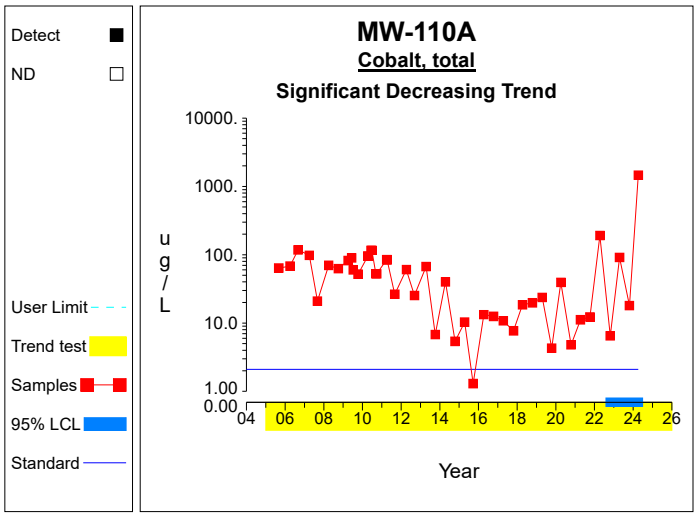

Graph 13



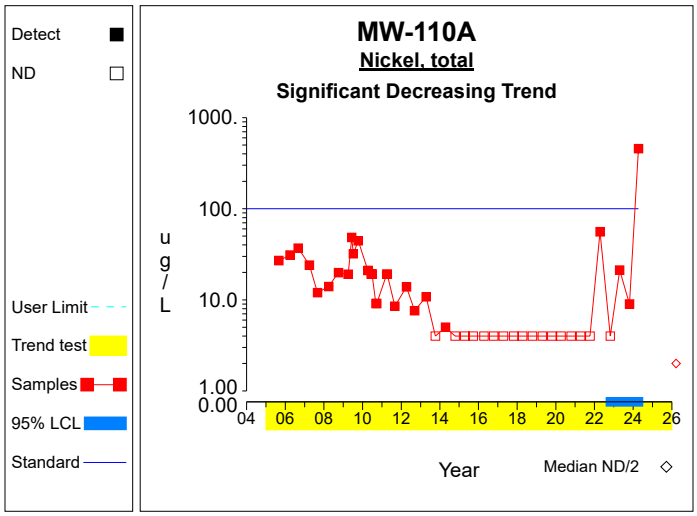

Graph 14



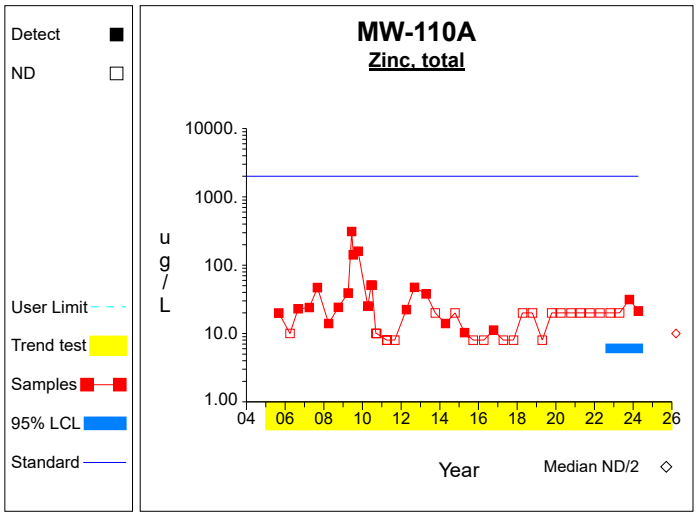

Graph 15




Graph 16



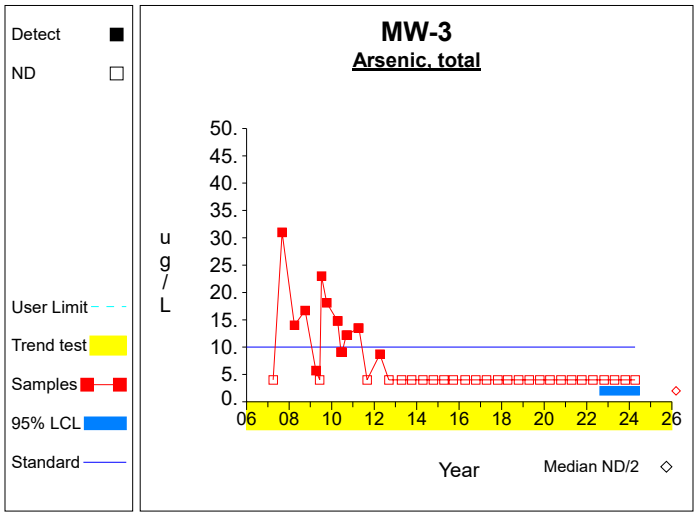

Graph 17



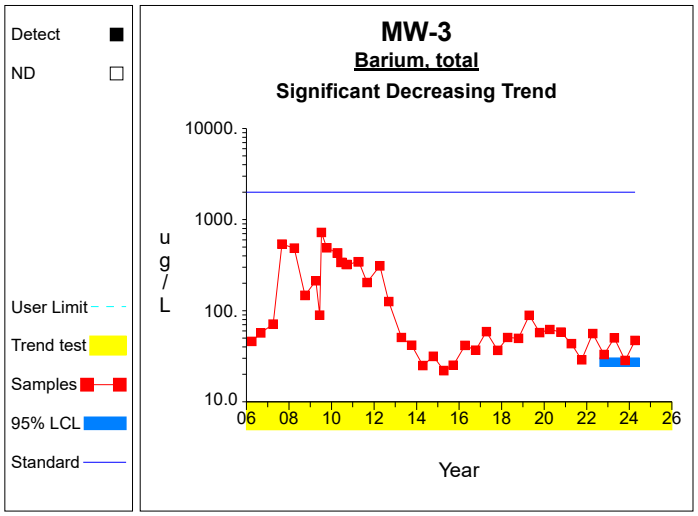

Graph 18

Prepared by: Otter Creek Environmental

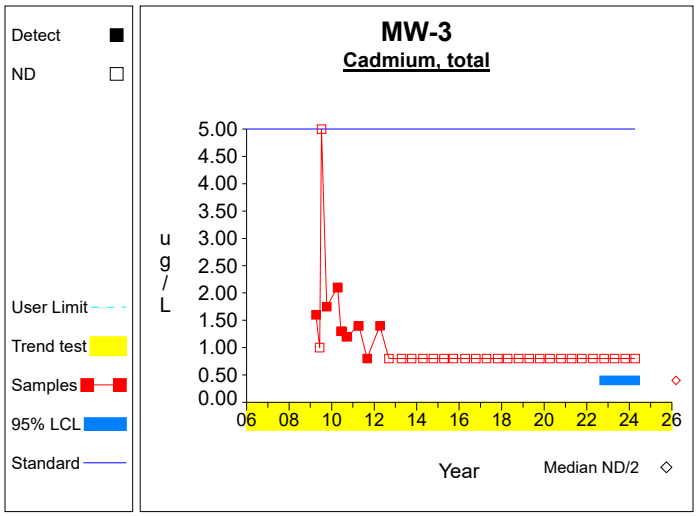
# Confidence Limits (Assessment)



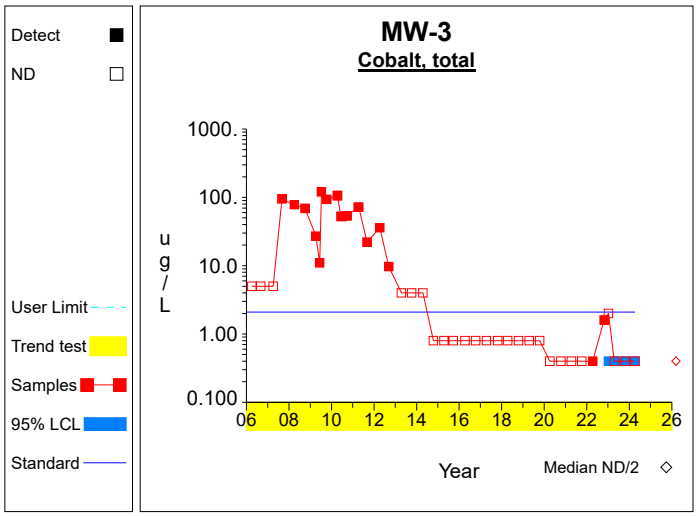

Graph 19



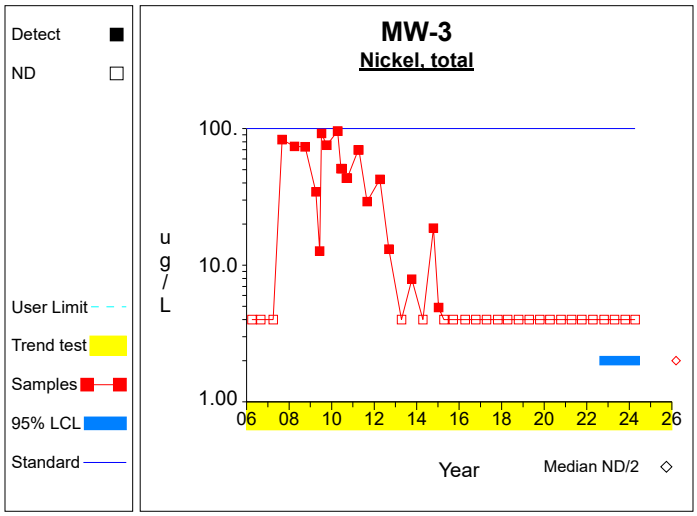

Graph 20



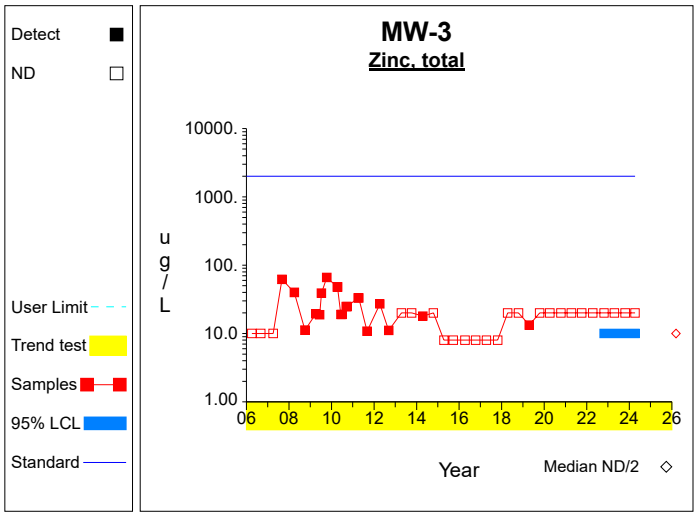

Graph 21




Graph 22



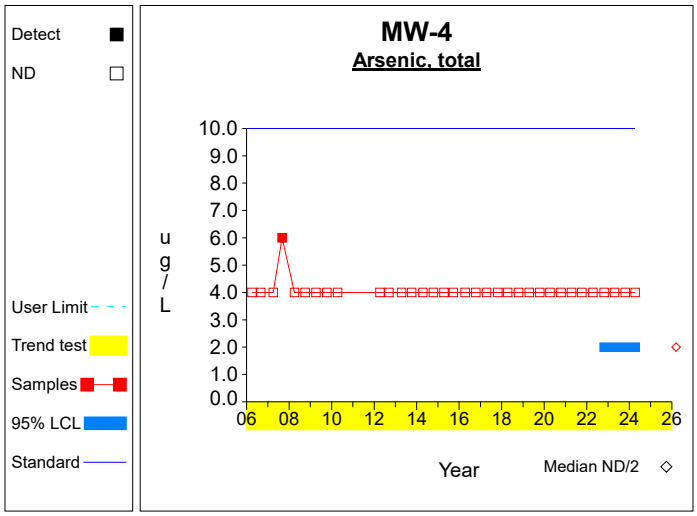

Graph 23



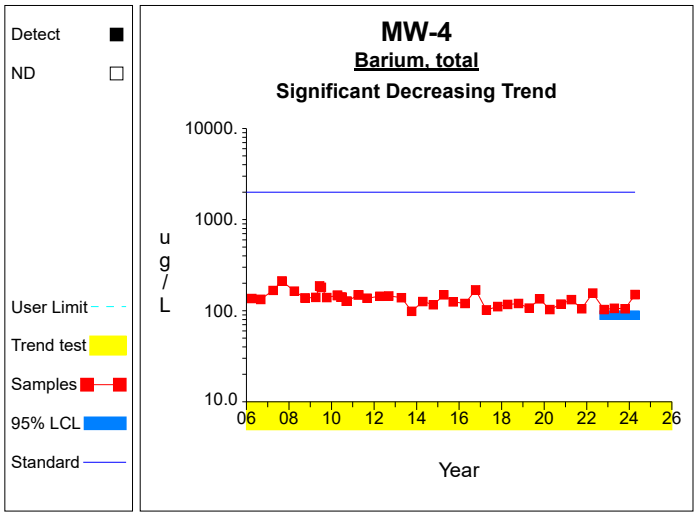

Graph 24

Prepared by: Otter Creek Environmental

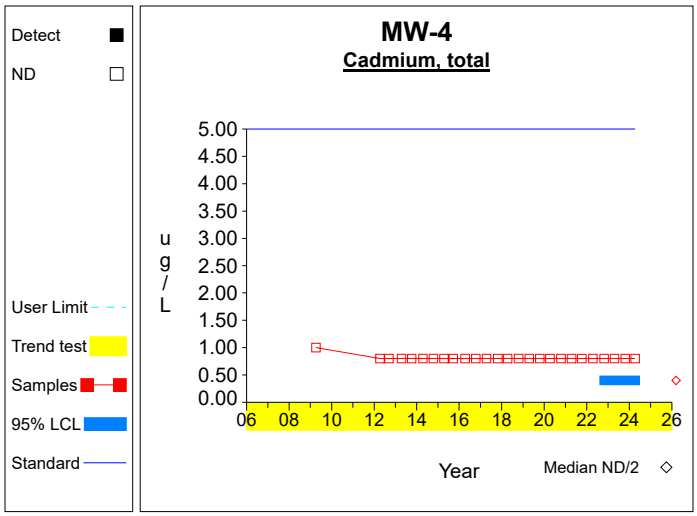
# Confidence Limits (Assessment)



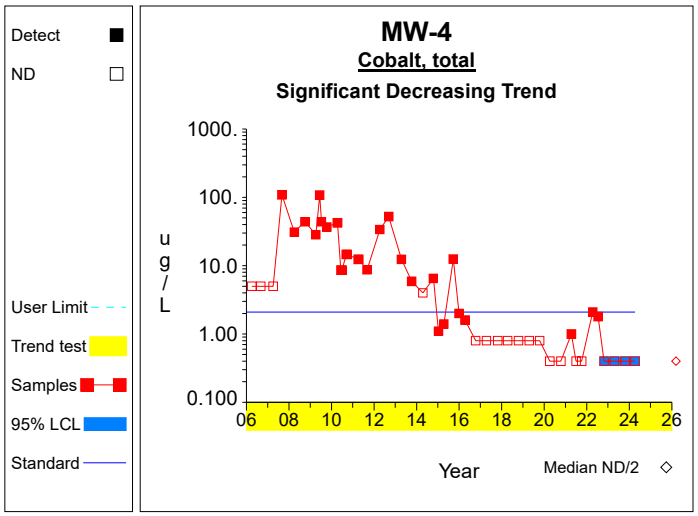

Graph 25



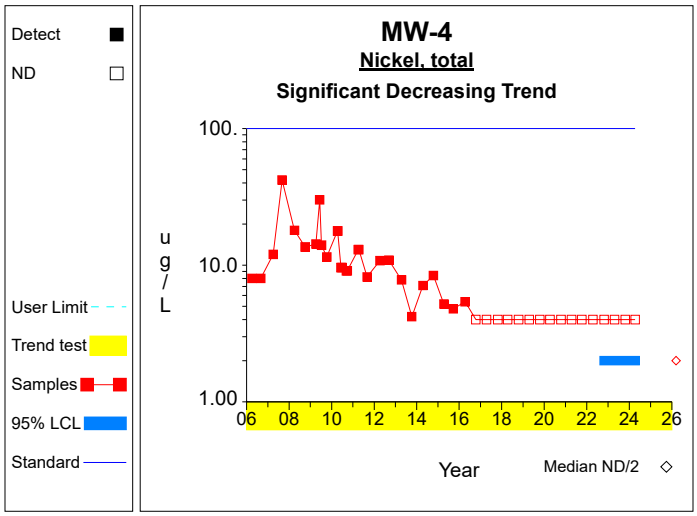

Graph 26



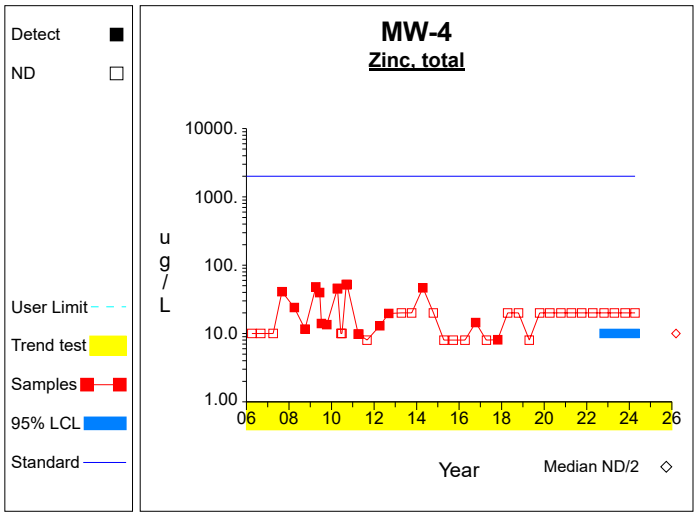

Graph 27




Graph 28




Graph 29




Graph 30

Prepared by: Otter Creek Environmental

**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 |
| 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 |
| 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 |
| Benzene | MW-110A | 10/09/2009 | | 5.1 | 1.0 | ug/L |
| Benzene | MW-110A | 10/09/2009 | | 5.4 | 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 | 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 |
| 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 |
| 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 |

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 | 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 |
| 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 |
| 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 |
| 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 |

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 | 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

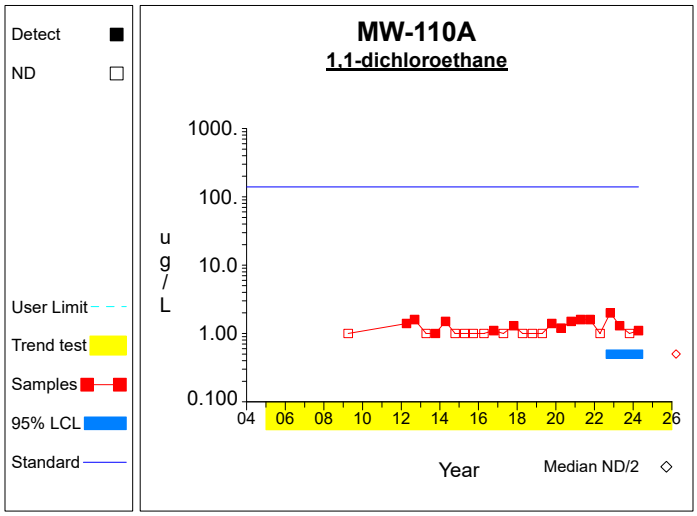
## Table 1

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

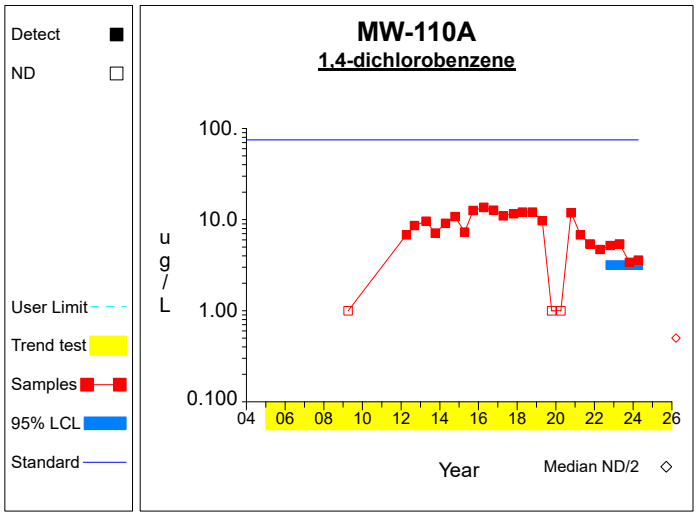
| Constituent | Units | Well | N | Mean | SD | Factor | 95% LCL | 95% UCL | Standard | Trend |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,1-dichloroethane | ug/L | MW-110A | 4 | 1.225 | 0.618 | 1.176 | 0.498 | 1.952 | 140.000 | |
| 1,4-dichlorobenzene | ug/L | MW-110A | 4 | 4.400 | 1.046 | 1.176 | 3.170 | 5.630 | 75.000 | |
| Benzene | ug/L | MW-110A | 4 | 3.025 | 0.695 | 1.176 | 2.208 | 3.842 | 5.000 | |
| Chlorobenzene | ug/L | MW-110A | 4 | 6.975 | 1.539 | 1.176 | 5.164 | 8.786 | 100.000 | |
| Chloroethane | ug/L | MW-110A | 4 | 2.075 | 0.838 | 1.176 | 1.089 | 3.061 | 2800.000 | dec |
| 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

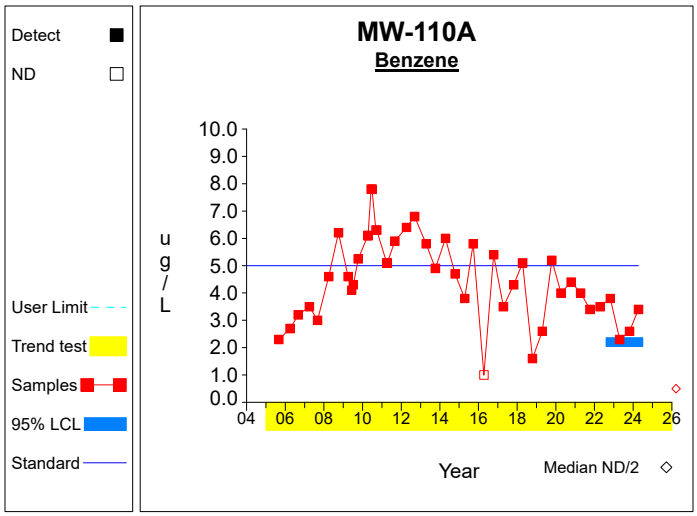
# Confidence Limits (Assessment)



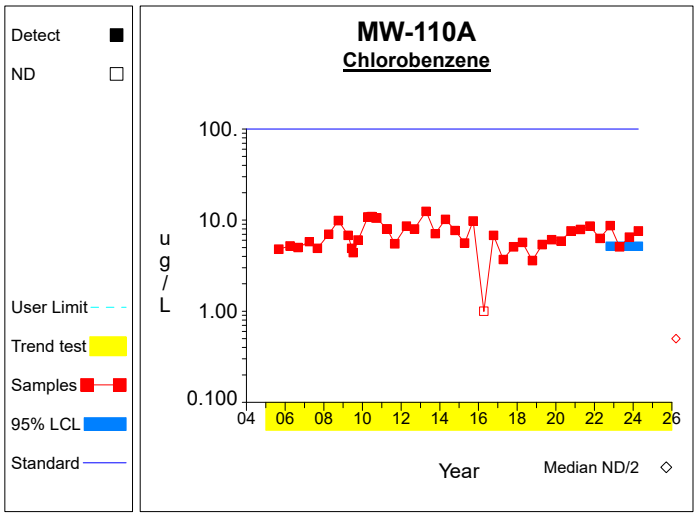

Graph 1



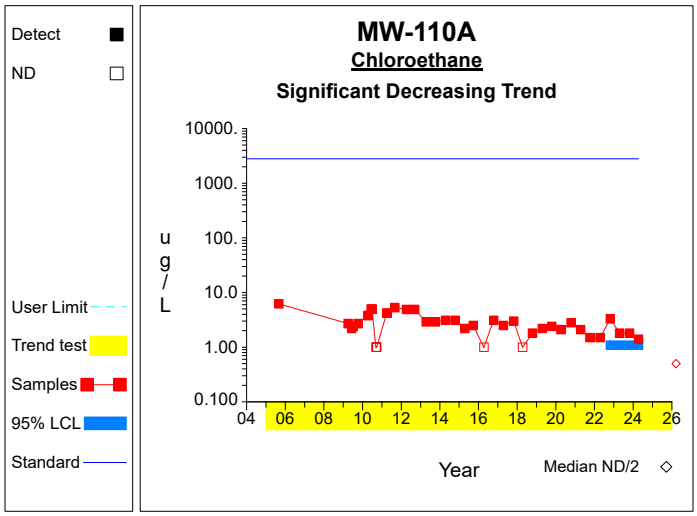

Graph 2



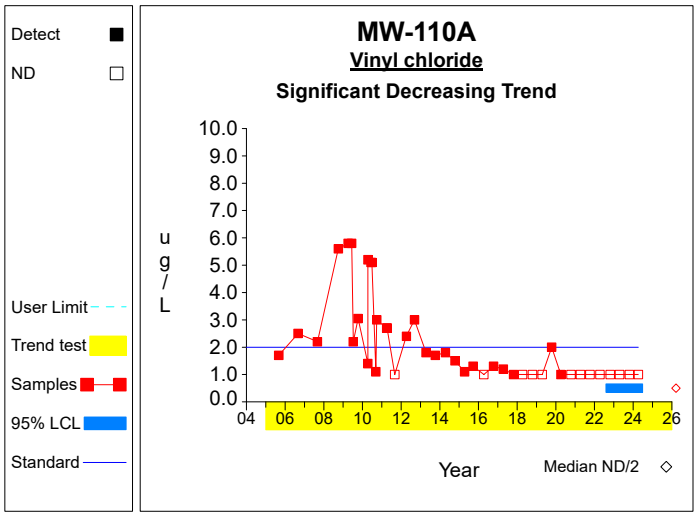

Graph 3




Graph 4




Graph 5




Graph 6

Prepared by: Otter Creek Environmental

# Appendix C

# Laboratory Reports for Reporting Period

*With Chain of Custody*

Microbac Laboratories, Inc., Newton

# CERTIFICATE OF ANALYSIS

1HD0953

Project Description

6035

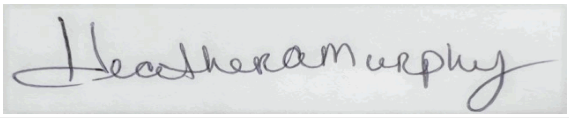
For:

Todd Whipple

**HLW Engineering**

PO Box 314

Story City, IA 50248



Heather Murphy

Customer Relationship Specialist

Friday, May 3, 2024

Please find enclosed the analytical results for the samples you submitted to Microbac Laboratories. Review and compilation of your report was completed by Microbac Laboratories, Inc., Newton. If you have any questions, comments, or require further assistance regarding this report, please contact your service representative listed above.

I certify that all test results meet all of the requirements of the accrediting authority listed within this report. Analytical results are reported on a 'as received' basis unless specified otherwise. Analytical results for solids with units ending in (dry) are reported on a dry weight basis. A statement of uncertainty for each analysis is available upon request. This laboratory report shall not be reproduced, except in full, without the written approval of Microbac Laboratories. The reported results are related only to the samples analyzed as received.

MICROBAC®

Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

1HD0953

**HLW Engineering**

Todd Whipple
PO Box 314
Story City, IA 50248

**Project Name: 6035**

Project / PO Number: N/A
Received: 04/10/2024
Reported: 05/03/2024

**Sample Summary Report**

| Sample Name | Laboratory ID | Client Matrix | Sample Type | Sample Begin | Sample Taken | Lab Received |
|---|---|---|---|---|---|---|
| MW-1 | 1HD0953-01 | Aqueous | GRAB | | 04/09/24 09:59 | 04/10/24 10:08 |
| MW-2A | 1HD0953-02 | Aqueous | GRAB | | 04/09/24 10:15 | 04/10/24 10:08 |
| MW-3 | 1HD0953-03 | Aqueous | GRAB | | 04/09/24 11:00 | 04/10/24 10:08 |
| MW-4 | 1HD0953-04 | Aqueous | GRAB | | 04/09/24 10:43 | 04/10/24 10:08 |
| MW-105B | 1HD0953-05 | Aqueous | GRAB | | 04/09/24 11:18 | 04/10/24 10:08 |
| MW-108A | 1HD0953-06 | Aqueous | GRAB | | 04/09/24 11:35 | 04/10/24 10:08 |
| MW-110A | 1HD0953-07 | Aqueous | GRAB | | 04/09/24 11:54 | 04/10/24 10:08 |
| Duplicate | 1HD0953-08 | Aqueous | GRAB | | 04/09/24 00:00 | 04/10/24 10:08 |

**Analytical Testing Parameters**

| | | | |
|---|---|---|---|
| **Client Sample ID:** | MW-1 | | |
| **Sample Matrix:** | Aqueous | **Collected By:** | Whipple, Todd |
| **Lab Sample ID:** | 1HD0953-01 | **Collection Date:** | 04/09/2024 9:59 |

| Determination of Volatile Organic Compounds | Result | RL | Units | DF | Note | Prepared | Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|
| **EPA 5030B/EPA 8260B** | | | | | | | | |
| Chloromethane | **7.9** | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1713 | LJS |
| Vinyl Chloride | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1713 | LJS |
| Bromomethane | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1713 | LJS |
| Chloroethane | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1713 | LJS |
| Trichlorofluoromethane | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1713 | LJS |
| 1,1-Dichloroethylene | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1713 | LJS |
| Acetone | <10.0 | 10.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1713 | LJS |
| Methyl Iodide | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1713 | LJS |
| Carbon Disulfide | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1713 | LJS |
| Methylene Chloride | <5.0 | 5.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1713 | LJS |
| Acrylonitrile | <5.0 | 5.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1713 | LJS |
| trans-1,2-Dichloroethylene | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1713 | LJS |
| 1,1-Dichloroethane | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1713 | LJS |
| Vinyl Acetate | <5.0 | 5.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1713 | LJS |
| cis-1,2-Dichloroethylene | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1713 | LJS |
| 2-Butanone (MEK) | <10.0 | 10.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1713 | LJS |
| Bromochloromethane | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1713 | LJS |
| Chloroform | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1713 | LJS |
| 1,1,1-Trichloroethane | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1713 | LJS |
| Carbon Tetrachloride | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1713 | LJS |
| Benzene | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1713 | LJS |
| 1,2-Dichloroethane | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1713 | LJS |
| Trichloroethylene | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1713 | LJS |
| 1,2-Dichloropropane | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1713 | LJS |
| Dibromomethane | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1713 | LJS |
| Bromodichloromethane | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1713 | LJS |
| cis-1,3-Dichloropropene | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1713 | LJS |
| 4-Methyl-2-pentanone (MIBK) | <5.0 | 5.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1713 | LJS |
| Toluene | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1713 | LJS |
| trans-1,3-Dichloropropene | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1713 | LJS |
| 1,1,2-Trichloroethane | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1713 | LJS |
| Tetrachloroethylene | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1713 | LJS |
| 2-Hexanone (MBK) | <5.0 | 5.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1713 | LJS |
| Dibromochloromethane | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1713 | LJS |
| 1,2-Dibromoethane | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1713 | LJS |
| Chlorobenzene | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1713 | LJS |
| 1,1,1,2-Tetrachloroethane | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1713 | LJS |
| Ethylbenzene | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1713 | LJS |
| Xylenes, total | <2.0 | 2.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1713 | LJS |
| Styrene | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1713 | LJS |

| | | | |
|---|---|---|---|
| **Client Sample ID:** | MW-1 | | |
| **Sample Matrix:** | Aqueous | **Collected By:** | Whipple, Todd |
| **Lab Sample ID:** | 1HD0953-01 | **Collection Date:** | 04/09/2024 9:59 |

| Determination of Volatile Organic Compounds | Result | RL | Units | DF | Note | Prepared | Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|
| Bromoform | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1713 | LJS |
| 1,2,3-Trichloropropane | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1713 | LJS |
| trans-1,4-Dichloro-2-butene | <5.0 | 5.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1713 | LJS |
| 1,1,2,2-Tetrachloroethane | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1713 | LJS |
| 1,4-Dichlorobenzene | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1713 | LJS |
| 1,2-Dichlorobenzene | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1713 | LJS |
| 1,2-Dibromo-3-chloropropane | <5.0 | 5.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1713 | LJS |
| Surrogate: Dibromofluoromethane | 106 | Limit: 80-126 | % Rec | 1 | | 04/15/24 0000 | 04/15/24 1713 | LJS |
| Surrogate: Dibromofluoromethane | 106 | Limit: 75-136 | % Rec | 1 | | 04/15/24 0000 | 04/15/24 1713 | LJS |
| Surrogate: 1,2-Dichloroethane-d4 | 112 | Limit: 63-138 | % Rec | 1 | | 04/15/24 0000 | 04/15/24 1713 | LJS |
| Surrogate: 1,2-Dichloroethane-d4 | 112 | Limit: 61-142 | % Rec | 1 | | 04/15/24 0000 | 04/15/24 1713 | LJS |
| Surrogate: Toluene-d8 | 102 | Limit: 87-116 | % Rec | 1 | | 04/15/24 0000 | 04/15/24 1713 | LJS |
| Surrogate: Toluene-d8 | 102 | Limit: 82-121 | % Rec | 1 | | 04/15/24 0000 | 04/15/24 1713 | LJS |
| Surrogate: 4-Bromofluorobenzene | 101 | Limit: 85-111 | % Rec | 1 | | 04/15/24 0000 | 04/15/24 1713 | LJS |
| Surrogate: 4-Bromofluorobenzene | 101 | Limit: 80-116 | % Rec | 1 | | 04/15/24 0000 | 04/15/24 1713 | LJS |

| Determination of Total Metals | Result | RL | Units | DF | Note | Prepared | Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|
| **EPA 3005A/EPA 6020A** | | | | | | | | |
| Antimony, total | <0.0020 | 0.0020 | mg/L | 4 | | 04/12/24 1625 | 04/15/24 2303 | RVV |
| Arsenic, total | <0.0040 | 0.0040 | mg/L | 4 | | 04/12/24 1625 | 04/15/24 2303 | RVV |
| Barium, total | **0.361** | 0.0040 | mg/L | 4 | | 04/12/24 1625 | 04/15/24 2303 | RVV |
| Beryllium, total | <0.0040 | 0.0040 | mg/L | 4 | | 04/12/24 1625 | 04/15/24 2303 | RVV |
| Cadmium, total | <0.0008 | 0.0008 | mg/L | 4 | | 04/12/24 1625 | 04/15/24 2303 | RVV |
| Chromium, total | <0.0080 | 0.0080 | mg/L | 4 | | 04/12/24 1625 | 04/15/24 2303 | RVV |
| Cobalt, total | <0.0004 | 0.0004 | mg/L | 4 | | 04/12/24 1625 | 04/15/24 2303 | RVV |
| Copper, total | <0.0040 | 0.0040 | mg/L | 4 | | 04/12/24 1625 | 04/15/24 2303 | RVV |
| Lead, total | <0.0040 | 0.0040 | mg/L | 4 | | 04/12/24 1625 | 04/15/24 2303 | RVV |
| Nickel, total | <0.0040 | 0.0040 | mg/L | 4 | | 04/12/24 1625 | 04/15/24 2303 | RVV |
| Selenium, total | <0.0040 | 0.0040 | mg/L | 4 | | 04/12/24 1625 | 04/15/24 2303 | RVV |
| Silver, total | <0.0040 | 0.0040 | mg/L | 4 | | 04/12/24 1625 | 04/15/24 2303 | RVV |
| Thallium, total | <0.0020 | 0.0020 | mg/L | 4 | | 04/12/24 1625 | 04/15/24 2303 | RVV |
| Vanadium, total | <0.0200 | 0.0200 | mg/L | 4 | | 04/12/24 1625 | 04/15/24 2303 | RVV |
| Zinc, total | <0.0200 | 0.0200 | mg/L | 4 | | 04/12/24 1625 | 04/15/24 2303 | RVV |

| | | | |
|---|---|---|---|
| **Client Sample ID:** | MW-2A | | |
| **Sample Matrix:** | Aqueous | **Collected By:** | Whipple, Todd |
| **Lab Sample ID:** | 1HD0953-02 | **Collection Date:** | 04/09/2024 10:15 |

| Determination of Volatile Organic Compounds | Result | RL | Units | DF | Note | Prepared | Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|
| **EPA 5030B/EPA 8260B** | | | | | | | | |
| Chloromethane | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1740 | LJS |
| Vinyl Chloride | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1740 | LJS |
| Bromomethane | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1740 | LJS |
| Chloroethane | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1740 | LJS |
| Trichlorofluoromethane | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1740 | LJS |
| 1,1-Dichloroethylene | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1740 | LJS |
| Acetone | <10.0 | 10.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1740 | LJS |
| Methyl Iodide | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1740 | LJS |
| Carbon Disulfide | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1740 | LJS |
| Methylene Chloride | <5.0 | 5.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1740 | LJS |
| Acrylonitrile | <5.0 | 5.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1740 | LJS |
| trans-1,2-Dichloroethylene | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1740 | LJS |
| 1,1-Dichloroethane | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1740 | LJS |
| Vinyl Acetate | <5.0 | 5.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1740 | LJS |
| cis-1,2-Dichloroethylene | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1740 | LJS |
| 2-Butanone (MEK) | <10.0 | 10.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1740 | LJS |
| Bromochloromethane | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1740 | LJS |
| Chloroform | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1740 | LJS |
| 1,1,1-Trichloroethane | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1740 | LJS |
| Carbon Tetrachloride | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1740 | LJS |
| Benzene | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1740 | LJS |
| 1,2-Dichloroethane | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1740 | LJS |
| Trichloroethylene | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1740 | LJS |
| 1,2-Dichloropropane | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1740 | LJS |
| Dibromomethane | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1740 | LJS |
| Bromodichloromethane | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1740 | LJS |
| cis-1,3-Dichloropropene | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1740 | LJS |
| 4-Methyl-2-pentanone (MIBK) | <5.0 | 5.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1740 | LJS |
| Toluene | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1740 | LJS |
| trans-1,3-Dichloropropene | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1740 | LJS |
| 1,1,2-Trichloroethane | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1740 | LJS |
| Tetrachloroethylene | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1740 | LJS |
| 2-Hexanone (MBK) | <5.0 | 5.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1740 | LJS |
| Dibromochloromethane | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1740 | LJS |
| 1,2-Dibromoethane | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1740 | LJS |
| Chlorobenzene | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1740 | LJS |
| 1,1,1,2-Tetrachloroethane | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1740 | LJS |
| Ethylbenzene | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1740 | LJS |
| Xylenes, total | <2.0 | 2.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1740 | LJS |
| Styrene | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1740 | LJS |
| Bromoform | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1740 | LJS |
| 1,2,3-Trichloropropane | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1740 | LJS |

| | | | |
|---|---|---|---|
| **Client Sample ID:** | MW-2A | | |
| **Sample Matrix:** | Aqueous | **Collected By:** | Whipple, Todd |
| **Lab Sample ID:** | 1HD0953-02 | **Collection Date:** | 04/09/2024 10:15 |

| Determination of Volatile Organic Compounds | Result | RL | Units | DF | Note | Prepared | Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|
| trans-1,4-Dichloro-2-butene | <5.0 | 5.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1740 | LJS |
| 1,1,2,2-Tetrachloroethane | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1740 | LJS |
| 1,4-Dichlorobenzene | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1740 | LJS |
| 1,2-Dichlorobenzene | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1740 | LJS |
| 1,2-Dibromo-3-chloropropane | <5.0 | 5.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1740 | LJS |
| Surrogate: Dibromofluoromethane | 106 | Limit: 80-126 | % Rec | 1 | | 04/15/24 0000 | 04/15/24 1740 | LJS |
| Surrogate: Dibromofluoromethane | 106 | Limit: 75-136 | % Rec | 1 | | 04/15/24 0000 | 04/15/24 1740 | LJS |
| Surrogate: 1,2-Dichloroethane-d4 | 111 | Limit: 63-138 | % Rec | 1 | | 04/15/24 0000 | 04/15/24 1740 | LJS |
| Surrogate: 1,2-Dichloroethane-d4 | 111 | Limit: 61-142 | % Rec | 1 | | 04/15/24 0000 | 04/15/24 1740 | LJS |
| Surrogate: Toluene-d8 | 101 | Limit: 87-116 | % Rec | 1 | | 04/15/24 0000 | 04/15/24 1740 | LJS |
| Surrogate: Toluene-d8 | 101 | Limit: 82-121 | % Rec | 1 | | 04/15/24 0000 | 04/15/24 1740 | LJS |
| Surrogate: 4-Bromofluorobenzene | 101 | Limit: 85-111 | % Rec | 1 | | 04/15/24 0000 | 04/15/24 1740 | LJS |
| Surrogate: 4-Bromofluorobenzene | 101 | Limit: 80-116 | % Rec | 1 | | 04/15/24 0000 | 04/15/24 1740 | LJS |

| Determination of Total Metals | Result | RL | Units | DF | Note | Prepared | Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|
| **EPA 3005A/EPA 6020A** | | | | | | | | |
| Antimony, total | <0.0020 | 0.0020 | mg/L | 4 | | 04/12/24 1625 | 04/15/24 2309 | RVV |
| Arsenic, total | <0.0040 | 0.0040 | mg/L | 4 | | 04/12/24 1625 | 04/15/24 2309 | RVV |
| Barium, total | **0.0584** | 0.0040 | mg/L | 4 | | 04/12/24 1625 | 04/15/24 2309 | RVV |
| Beryllium, total | <0.0040 | 0.0040 | mg/L | 4 | | 04/12/24 1625 | 04/15/24 2309 | RVV |
| Cadmium, total | <0.0008 | 0.0008 | mg/L | 4 | | 04/12/24 1625 | 04/15/24 2309 | RVV |
| Chromium, total | <0.0080 | 0.0080 | mg/L | 4 | | 04/12/24 1625 | 04/15/24 2309 | RVV |
| Cobalt, total | <0.0004 | 0.0004 | mg/L | 4 | | 04/12/24 1625 | 04/15/24 2309 | RVV |
| Copper, total | <0.0040 | 0.0040 | mg/L | 4 | | 04/12/24 1625 | 04/15/24 2309 | RVV |
| Lead, total | <0.0040 | 0.0040 | mg/L | 4 | | 04/12/24 1625 | 04/15/24 2309 | RVV |
| Nickel, total | <0.0040 | 0.0040 | mg/L | 4 | | 04/12/24 1625 | 04/15/24 2309 | RVV |
| Selenium, total | <0.0040 | 0.0040 | mg/L | 4 | | 04/12/24 1625 | 04/15/24 2309 | RVV |
| Silver, total | <0.0040 | 0.0040 | mg/L | 4 | | 04/12/24 1625 | 04/15/24 2309 | RVV |
| Thallium, total | <0.0020 | 0.0020 | mg/L | 4 | | 04/12/24 1625 | 04/15/24 2309 | RVV |
| Vanadium, total | <0.0200 | 0.0200 | mg/L | 4 | | 04/12/24 1625 | 04/15/24 2309 | RVV |
| Zinc, total | <0.0200 | 0.0200 | mg/L | 4 | | 04/12/24 1625 | 04/15/24 2309 | RVV |

| | | | |
|---|---|---|---|
| **Client Sample ID:** | MW-3 | | |
| **Sample Matrix:** | Aqueous | **Collected By:** | Whipple, Todd |
| **Lab Sample ID:** | 1HD0953-03 | **Collection Date:** | 04/09/2024 11:00 |

| Determination of Volatile Organic Compounds | Result | RL | Units | DF | Note | Prepared | Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|
| **EPA 5030B/EPA 8260B** | | | | | | | | |
| Chloromethane | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1806 | LJS |
| Vinyl Chloride | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1806 | LJS |
| Bromomethane | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1806 | LJS |
| Chloroethane | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1806 | LJS |
| Trichlorofluoromethane | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1806 | LJS |
| 1,1-Dichloroethylene | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1806 | LJS |
| Acetone | <10.0 | 10.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1806 | LJS |
| Methyl Iodide | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1806 | LJS |
| Carbon Disulfide | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1806 | LJS |
| Methylene Chloride | <5.0 | 5.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1806 | LJS |
| Acrylonitrile | <5.0 | 5.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1806 | LJS |
| trans-1,2-Dichloroethylene | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1806 | LJS |
| 1,1-Dichloroethane | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1806 | LJS |
| Vinyl Acetate | <5.0 | 5.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1806 | LJS |
| cis-1,2-Dichloroethylene | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1806 | LJS |
| 2-Butanone (MEK) | <10.0 | 10.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1806 | LJS |
| Bromochloromethane | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1806 | LJS |
| Chloroform | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1806 | LJS |
| 1,1,1-Trichloroethane | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1806 | LJS |
| Carbon Tetrachloride | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1806 | LJS |
| Benzene | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1806 | LJS |
| 1,2-Dichloroethane | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1806 | LJS |
| Trichloroethylene | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1806 | LJS |
| 1,2-Dichloropropane | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1806 | LJS |
| Dibromomethane | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1806 | LJS |
| Bromodichloromethane | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1806 | LJS |
| cis-1,3-Dichloropropene | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1806 | LJS |
| 4-Methyl-2-pentanone (MIBK) | <5.0 | 5.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1806 | LJS |
| Toluene | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1806 | LJS |
| trans-1,3-Dichloropropene | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1806 | LJS |
| 1,1,2-Trichloroethane | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1806 | LJS |
| Tetrachloroethylene | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1806 | LJS |
| 2-Hexanone (MBK) | <5.0 | 5.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1806 | LJS |
| Dibromochloromethane | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1806 | LJS |
| 1,2-Dibromoethane | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1806 | LJS |
| Chlorobenzene | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1806 | LJS |
| 1,1,1,2-Tetrachloroethane | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1806 | LJS |
| Ethylbenzene | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1806 | LJS |
| Xylenes, total | <2.0 | 2.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1806 | LJS |
| Styrene | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1806 | LJS |
| Bromoform | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1806 | LJS |
| 1,2,3-Trichloropropane | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1806 | LJS |

| | | | |
|---|---|---|---|
| **Client Sample ID:** | MW-3 | | |
| **Sample Matrix:** | Aqueous | **Collected By:** | Whipple, Todd |
| **Lab Sample ID:** | 1HD0953-03 | **Collection Date:** | 04/09/2024 11:00 |

| Determination of Volatile Organic Compounds | Result | RL | Units | DF | Note | Prepared | Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|
| trans-1,4-Dichloro-2-butene | <5.0 | 5.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1806 | LJS |
| 1,1,2,2-Tetrachloroethane | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1806 | LJS |
| 1,4-Dichlorobenzene | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1806 | LJS |
| 1,2-Dichlorobenzene | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1806 | LJS |
| 1,2-Dibromo-3-chloropropane | <5.0 | 5.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1806 | LJS |
| Surrogate: Dibromofluoromethane | 105 | Limit: 80-126 | % Rec | 1 | | 04/15/24 0000 | 04/15/24 1806 | LJS |
| Surrogate: Dibromofluoromethane | 105 | Limit: 75-136 | % Rec | 1 | | 04/15/24 0000 | 04/15/24 1806 | LJS |
| Surrogate: 1,2-Dichloroethane-d4 | 110 | Limit: 61-142 | % Rec | 1 | | 04/15/24 0000 | 04/15/24 1806 | LJS |
| Surrogate: 1,2-Dichloroethane-d4 | 110 | Limit: 63-138 | % Rec | 1 | | 04/15/24 0000 | 04/15/24 1806 | LJS |
| Surrogate: Toluene-d8 | 102 | Limit: 82-121 | % Rec | 1 | | 04/15/24 0000 | 04/15/24 1806 | LJS |
| Surrogate: Toluene-d8 | 102 | Limit: 87-116 | % Rec | 1 | | 04/15/24 0000 | 04/15/24 1806 | LJS |
| Surrogate: 4-Bromofluorobenzene | 101 | Limit: 85-111 | % Rec | 1 | | 04/15/24 0000 | 04/15/24 1806 | LJS |
| Surrogate: 4-Bromofluorobenzene | 101 | Limit: 80-116 | % Rec | 1 | | 04/15/24 0000 | 04/15/24 1806 | LJS |

| Determination of Total Metals | Result | RL | Units | DF | Note | Prepared | Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|
| **EPA 3005A/EPA 6020A** | | | | | | | | |
| Antimony, total | <0.0020 | 0.0020 | mg/L | 4 | | 04/12/24 1625 | 04/15/24 2315 | RVV |
| Arsenic, total | <0.0040 | 0.0040 | mg/L | 4 | | 04/12/24 1625 | 04/15/24 2315 | RVV |
| Barium, total | **0.0471** | 0.0040 | mg/L | 4 | | 04/12/24 1625 | 04/15/24 2315 | RVV |
| Beryllium, total | <0.0040 | 0.0040 | mg/L | 4 | | 04/12/24 1625 | 04/15/24 2315 | RVV |
| Cadmium, total | <0.0008 | 0.0008 | mg/L | 4 | | 04/12/24 1625 | 04/15/24 2315 | RVV |
| Chromium, total | <0.0080 | 0.0080 | mg/L | 4 | | 04/12/24 1625 | 04/15/24 2315 | RVV |
| Cobalt, total | <0.0004 | 0.0004 | mg/L | 4 | | 04/12/24 1625 | 04/15/24 2315 | RVV |
| Copper, total | <0.0040 | 0.0040 | mg/L | 4 | | 04/12/24 1625 | 04/15/24 2315 | RVV |
| Lead, total | <0.0040 | 0.0040 | mg/L | 4 | | 04/12/24 1625 | 04/15/24 2315 | RVV |
| Nickel, total | <0.0040 | 0.0040 | mg/L | 4 | | 04/12/24 1625 | 04/15/24 2315 | RVV |
| Selenium, total | <0.0040 | 0.0040 | mg/L | 4 | | 04/12/24 1625 | 04/15/24 2315 | RVV |
| Silver, total | <0.0040 | 0.0040 | mg/L | 4 | | 04/12/24 1625 | 04/15/24 2315 | RVV |
| Thallium, total | <0.0020 | 0.0020 | mg/L | 4 | | 04/12/24 1625 | 04/15/24 2315 | RVV |
| Vanadium, total | <0.0200 | 0.0200 | mg/L | 4 | | 04/12/24 1625 | 04/15/24 2315 | RVV |
| Zinc, total | <0.0200 | 0.0200 | mg/L | 4 | | 04/12/24 1625 | 04/15/24 2315 | RVV |

| | | | |
|---|---|---|---|
| **Client Sample ID:** | MW-4 | | |
| **Sample Matrix:** | Aqueous | **Collected By:** | Whipple, Todd |
| **Lab Sample ID:** | 1HD0953-04 | **Collection Date:** | 04/09/2024 10:43 |

| Determination of Volatile Organic Compounds | Result | RL | Units | DF | Note | Prepared | Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|
| **EPA 5030B/EPA 8260B** | | | | | | | | |
| Chloromethane | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1833 | LJS |
| Vinyl Chloride | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1833 | LJS |
| Bromomethane | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1833 | LJS |
| Chloroethane | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1833 | LJS |
| Trichlorofluoromethane | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1833 | LJS |
| 1,1-Dichloroethylene | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1833 | LJS |
| Acetone | <10.0 | 10.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1833 | LJS |
| Methyl Iodide | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1833 | LJS |
| Carbon Disulfide | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1833 | LJS |
| Methylene Chloride | <5.0 | 5.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1833 | LJS |
| Acrylonitrile | <5.0 | 5.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1833 | LJS |
| trans-1,2-Dichloroethylene | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1833 | LJS |
| 1,1-Dichloroethane | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1833 | LJS |
| Vinyl Acetate | <5.0 | 5.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1833 | LJS |
| cis-1,2-Dichloroethylene | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1833 | LJS |
| 2-Butanone (MEK) | <10.0 | 10.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1833 | LJS |
| Bromochloromethane | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1833 | LJS |
| Chloroform | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1833 | LJS |
| 1,1,1-Trichloroethane | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1833 | LJS |
| Carbon Tetrachloride | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1833 | LJS |
| Benzene | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1833 | LJS |
| 1,2-Dichloroethane | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1833 | LJS |
| Trichloroethylene | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1833 | LJS |
| 1,2-Dichloropropane | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1833 | LJS |
| Dibromomethane | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1833 | LJS |
| Bromodichloromethane | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1833 | LJS |
| cis-1,3-Dichloropropene | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1833 | LJS |
| 4-Methyl-2-pentanone (MIBK) | <5.0 | 5.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1833 | LJS |
| Toluene | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1833 | LJS |
| trans-1,3-Dichloropropene | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1833 | LJS |
| 1,1,2-Trichloroethane | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1833 | LJS |
| Tetrachloroethylene | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1833 | LJS |
| 2-Hexanone (MBK) | <5.0 | 5.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1833 | LJS |
| Dibromochloromethane | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1833 | LJS |
| 1,2-Dibromoethane | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1833 | LJS |
| Chlorobenzene | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1833 | LJS |
| 1,1,1,2-Tetrachloroethane | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1833 | LJS |
| Ethylbenzene | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1833 | LJS |
| Xylenes, total | <2.0 | 2.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1833 | LJS |
| Styrene | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1833 | LJS |
| Bromoform | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1833 | LJS |
| 1,2,3-Trichloropropane | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1833 | LJS |

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|---|---|---|---|
| **Client Sample ID:** | MW-4 | | |
| **Sample Matrix:** | Aqueous | **Collected By:** | Whipple, Todd |
| **Lab Sample ID:** | 1HD0953-04 | **Collection Date:** | 04/09/2024 10:43 |

| Determination of Volatile Organic Compounds | Result | RL | Units | DF | Note | Prepared | Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|
| trans-1,4-Dichloro-2-butene | <5.0 | 5.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1833 | LJS |
| 1,1,2,2-Tetrachloroethane | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1833 | LJS |
| 1,4-Dichlorobenzene | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1833 | LJS |
| 1,2-Dichlorobenzene | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1833 | LJS |
| 1,2-Dibromo-3-chloropropane | <5.0 | 5.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1833 | LJS |
| Surrogate: Dibromofluoromethane | 102 | Limit: 80-126 | % Rec | 1 | | 04/15/24 0000 | 04/15/24 1833 | LJS |
| Surrogate: Dibromofluoromethane | 102 | Limit: 75-136 | % Rec | 1 | | 04/15/24 0000 | 04/15/24 1833 | LJS |
| Surrogate: 1,2-Dichloroethane-d4 | 108 | Limit: 61-142 | % Rec | 1 | | 04/15/24 0000 | 04/15/24 1833 | LJS |
| Surrogate: 1,2-Dichloroethane-d4 | 108 | Limit: 63-138 | % Rec | 1 | | 04/15/24 0000 | 04/15/24 1833 | LJS |
| Surrogate: Toluene-d8 | 99.8 | Limit: 82-121 | % Rec | 1 | | 04/15/24 0000 | 04/15/24 1833 | LJS |
| Surrogate: Toluene-d8 | 99.8 | Limit: 87-116 | % Rec | 1 | | 04/15/24 0000 | 04/15/24 1833 | LJS |
| Surrogate: 4-Bromofluorobenzene | 102 | Limit: 85-111 | % Rec | 1 | | 04/15/24 0000 | 04/15/24 1833 | LJS |
| Surrogate: 4-Bromofluorobenzene | 102 | Limit: 80-116 | % Rec | 1 | | 04/15/24 0000 | 04/15/24 1833 | LJS |

| Determination of Total Metals | Result | RL | Units | DF | Note | Prepared | Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|
| **EPA 3005A/EPA 6020A** | | | | | | | | |
| Antimony, total | <0.0020 | 0.0020 | mg/L | 4 | | 04/12/24 1625 | 04/15/24 2322 | RVV |
| Arsenic, total | <0.0040 | 0.0040 | mg/L | 4 | | 04/12/24 1625 | 04/15/24 2322 | RVV |
| Barium, total | **0.150** | 0.0040 | mg/L | 4 | | 04/12/24 1625 | 04/15/24 2322 | RVV |
| Beryllium, total | <0.0040 | 0.0040 | mg/L | 4 | | 04/12/24 1625 | 04/15/24 2322 | RVV |
| Cadmium, total | <0.0008 | 0.0008 | mg/L | 4 | | 04/12/24 1625 | 04/15/24 2322 | RVV |
| Chromium, total | <0.0080 | 0.0080 | mg/L | 4 | | 04/12/24 1625 | 04/15/24 2322 | RVV |
| Cobalt, total | <0.0004 | 0.0004 | mg/L | 4 | | 04/12/24 1625 | 04/15/24 2322 | RVV |
| Copper, total | <0.0040 | 0.0040 | mg/L | 4 | | 04/12/24 1625 | 04/15/24 2322 | RVV |
| Lead, total | <0.0040 | 0.0040 | mg/L | 4 | | 04/12/24 1625 | 04/15/24 2322 | RVV |
| Nickel, total | <0.0040 | 0.0040 | mg/L | 4 | | 04/12/24 1625 | 04/15/24 2322 | RVV |
| Selenium, total | <0.0040 | 0.0040 | mg/L | 4 | | 04/12/24 1625 | 04/15/24 2322 | RVV |
| Silver, total | <0.0040 | 0.0040 | mg/L | 4 | | 04/12/24 1625 | 04/15/24 2322 | RVV |
| Thallium, total | <0.0020 | 0.0020 | mg/L | 4 | | 04/12/24 1625 | 04/15/24 2322 | RVV |
| Vanadium, total | <0.0200 | 0.0200 | mg/L | 4 | | 04/12/24 1625 | 04/15/24 2322 | RVV |
| Zinc, total | <0.0200 | 0.0200 | mg/L | 4 | | 04/12/24 1625 | 04/15/24 2322 | RVV |

| | | | |
|---|---|---|---|
| **Client Sample ID:** | MW-105B | | |
| **Sample Matrix:** | Aqueous | **Collected By:** | Whipple, Todd |
| **Lab Sample ID:** | 1HD0953-05 | **Collection Date:** | 04/09/2024 11:18 |

| Determination of Volatile Organic Compounds | Result | RL | Units | DF | Note | Prepared | Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|
| **EPA 5030B/EPA 8260B** | | | | | | | | |
| Chloromethane | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1900 | LJS |
| Vinyl Chloride | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1900 | LJS |
| Bromomethane | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1900 | LJS |
| Chloroethane | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1900 | LJS |
| Trichlorofluoromethane | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1900 | LJS |
| 1,1-Dichloroethylene | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1900 | LJS |
| Acetone | <10.0 | 10.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1900 | LJS |
| Methyl Iodide | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1900 | LJS |
| Carbon Disulfide | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1900 | LJS |
| Methylene Chloride | <5.0 | 5.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1900 | LJS |
| Acrylonitrile | <5.0 | 5.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1900 | LJS |
| trans-1,2-Dichloroethylene | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1900 | LJS |
| 1,1-Dichloroethane | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1900 | LJS |
| Vinyl Acetate | <5.0 | 5.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1900 | LJS |
| cis-1,2-Dichloroethylene | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1900 | LJS |
| 2-Butanone (MEK) | <10.0 | 10.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1900 | LJS |
| Bromochloromethane | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1900 | LJS |
| Chloroform | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1900 | LJS |
| 1,1,1-Trichloroethane | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1900 | LJS |
| Carbon Tetrachloride | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1900 | LJS |
| Benzene | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1900 | LJS |
| 1,2-Dichloroethane | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1900 | LJS |
| Trichloroethylene | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1900 | LJS |
| 1,2-Dichloropropane | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1900 | LJS |
| Dibromomethane | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1900 | LJS |
| Bromodichloromethane | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1900 | LJS |
| cis-1,3-Dichloropropene | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1900 | LJS |
| 4-Methyl-2-pentanone (MIBK) | <5.0 | 5.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1900 | LJS |
| Toluene | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1900 | LJS |
| trans-1,3-Dichloropropene | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1900 | LJS |
| 1,1,2-Trichloroethane | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1900 | LJS |
| Tetrachloroethylene | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1900 | LJS |
| 2-Hexanone (MBK) | <5.0 | 5.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1900 | LJS |
| Dibromochloromethane | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1900 | LJS |
| 1,2-Dibromoethane | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1900 | LJS |
| Chlorobenzene | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1900 | LJS |
| 1,1,1,2-Tetrachloroethane | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1900 | LJS |
| Ethylbenzene | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1900 | LJS |
| Xylenes, total | <2.0 | 2.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1900 | LJS |
| Styrene | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1900 | LJS |
| Bromoform | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1900 | LJS |
| 1,2,3-Trichloropropane | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1900 | LJS |

| | | | |
|---|---|---|---|
| **Client Sample ID:** | MW-105B | | |
| **Sample Matrix:** | Aqueous | **Collected By:** | Whipple, Todd |
| **Lab Sample ID:** | 1HD0953-05 | **Collection Date:** | 04/09/2024 11:18 |

| Determination of Volatile Organic Compounds | Result | RL | Units | DF | Note | Prepared | Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|
| trans-1,4-Dichloro-2-butene | <5.0 | 5.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1900 | LJS |
| 1,1,2,2-Tetrachloroethane | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1900 | LJS |
| 1,4-Dichlorobenzene | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1900 | LJS |
| 1,2-Dichlorobenzene | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1900 | LJS |
| 1,2-Dibromo-3-chloropropane | <5.0 | 5.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1900 | LJS |
| Surrogate: Dibromofluoromethane | 102 | Limit: 75-136 | % Rec | 1 | | 04/15/24 0000 | 04/15/24 1900 | LJS |
| Surrogate: Dibromofluoromethane | 102 | Limit: 80-126 | % Rec | 1 | | 04/15/24 0000 | 04/15/24 1900 | LJS |
| Surrogate: 1,2-Dichloroethane-d4 | 109 | Limit: 61-142 | % Rec | 1 | | 04/15/24 0000 | 04/15/24 1900 | LJS |
| Surrogate: 1,2-Dichloroethane-d4 | 109 | Limit: 63-138 | % Rec | 1 | | 04/15/24 0000 | 04/15/24 1900 | LJS |
| Surrogate: Toluene-d8 | 100 | Limit: 82-121 | % Rec | 1 | | 04/15/24 0000 | 04/15/24 1900 | LJS |
| Surrogate: Toluene-d8 | 100 | Limit: 87-116 | % Rec | 1 | | 04/15/24 0000 | 04/15/24 1900 | LJS |
| Surrogate: 4-Bromofluorobenzene | 102 | Limit: 80-116 | % Rec | 1 | | 04/15/24 0000 | 04/15/24 1900 | LJS |
| Surrogate: 4-Bromofluorobenzene | 102 | Limit: 85-111 | % Rec | 1 | | 04/15/24 0000 | 04/15/24 1900 | LJS |

| Determination of Total Metals | Result | RL | Units | DF | Note | Prepared | Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|
| **EPA 3005A/EPA 6020A** | | | | | | | | |
| Antimony, total | <0.0020 | 0.0020 | mg/L | 4 | | 04/12/24 1625 | 04/15/24 2328 | RVV |
| Arsenic, total | <0.0040 | 0.0040 | mg/L | 4 | | 04/12/24 1625 | 04/15/24 2328 | RVV |
| Barium, total | **0.110** | 0.0040 | mg/L | 4 | | 04/12/24 1625 | 04/15/24 2328 | RVV |
| Beryllium, total | <0.0040 | 0.0040 | mg/L | 4 | | 04/12/24 1625 | 04/15/24 2328 | RVV |
| Cadmium, total | <0.0008 | 0.0008 | mg/L | 4 | | 04/12/24 1625 | 04/15/24 2328 | RVV |
| Chromium, total | <0.0080 | 0.0080 | mg/L | 4 | | 04/12/24 1625 | 04/15/24 2328 | RVV |
| Cobalt, total | <0.0004 | 0.0004 | mg/L | 4 | | 04/12/24 1625 | 04/15/24 2328 | RVV |
| Copper, total | <0.0040 | 0.0040 | mg/L | 4 | | 04/12/24 1625 | 04/15/24 2328 | RVV |
| Lead, total | <0.0040 | 0.0040 | mg/L | 4 | | 04/12/24 1625 | 04/15/24 2328 | RVV |
| Nickel, total | <0.0040 | 0.0040 | mg/L | 4 | | 04/12/24 1625 | 04/15/24 2328 | RVV |
| Selenium, total | <0.0040 | 0.0040 | mg/L | 4 | | 04/12/24 1625 | 04/15/24 2328 | RVV |
| Silver, total | <0.0040 | 0.0040 | mg/L | 4 | | 04/12/24 1625 | 04/15/24 2328 | RVV |
| Thallium, total | <0.0020 | 0.0020 | mg/L | 4 | | 04/12/24 1625 | 04/15/24 2328 | RVV |
| Vanadium, total | <0.0200 | 0.0200 | mg/L | 4 | | 04/12/24 1625 | 04/15/24 2328 | RVV |
| Zinc, total | <0.0200 | 0.0200 | mg/L | 4 | | 04/12/24 1625 | 04/15/24 2328 | RVV |

| | | | |
|---|---|---|---|
| **Client Sample ID:** | MW-108A | | |
| **Sample Matrix:** | Aqueous | **Collected By:** | Whipple, Todd |
| **Lab Sample ID:** | 1HD0953-06 | **Collection Date:** | 04/09/2024 11:35 |

| Determination of Volatile Organic Compounds | Result | RL | Units | DF | Note | Prepared | Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|
| **EPA 5030B/EPA 8260B** | | | | | | | | |
| Chloromethane | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1926 | LJS |
| Vinyl Chloride | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1926 | LJS |
| Bromomethane | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1926 | LJS |
| Chloroethane | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1926 | LJS |
| Trichlorofluoromethane | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1926 | LJS |
| 1,1-Dichloroethylene | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1926 | LJS |
| Acetone | <10.0 | 10.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1926 | LJS |
| Methyl Iodide | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1926 | LJS |
| Carbon Disulfide | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1926 | LJS |
| Methylene Chloride | <5.0 | 5.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1926 | LJS |
| Acrylonitrile | <5.0 | 5.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1926 | LJS |
| trans-1,2-Dichloroethylene | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1926 | LJS |
| 1,1-Dichloroethane | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1926 | LJS |
| Vinyl Acetate | <5.0 | 5.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1926 | LJS |
| cis-1,2-Dichloroethylene | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1926 | LJS |
| 2-Butanone (MEK) | <10.0 | 10.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1926 | LJS |
| Bromochloromethane | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1926 | LJS |
| Chloroform | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1926 | LJS |
| 1,1,1-Trichloroethane | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1926 | LJS |
| Carbon Tetrachloride | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1926 | LJS |
| Benzene | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1926 | LJS |
| 1,2-Dichloroethane | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1926 | LJS |
| Trichloroethylene | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1926 | LJS |
| 1,2-Dichloropropane | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1926 | LJS |
| Dibromomethane | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1926 | LJS |
| Bromodichloromethane | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1926 | LJS |
| cis-1,3-Dichloropropene | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1926 | LJS |
| 4-Methyl-2-pentanone (MIBK) | <5.0 | 5.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1926 | LJS |
| Toluene | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1926 | LJS |
| trans-1,3-Dichloropropene | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1926 | LJS |
| 1,1,2-Trichloroethane | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1926 | LJS |
| Tetrachloroethylene | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1926 | LJS |
| 2-Hexanone (MBK) | <5.0 | 5.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1926 | LJS |
| Dibromochloromethane | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1926 | LJS |
| 1,2-Dibromoethane | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1926 | LJS |
| Chlorobenzene | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1926 | LJS |
| 1,1,1,2-Tetrachloroethane | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1926 | LJS |
| Ethylbenzene | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1926 | LJS |
| Xylenes, total | <2.0 | 2.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1926 | LJS |
| Styrene | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1926 | LJS |
| Bromoform | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1926 | LJS |
| 1,2,3-Trichloropropane | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1926 | LJS |

| | | | |
|---|---|---|---|
| **Client Sample ID:** | MW-108A | | |
| **Sample Matrix:** | Aqueous | **Collected By:** | Whipple, Todd |
| **Lab Sample ID:** | 1HD0953-06 | **Collection Date:** | 04/09/2024 11:35 |

| Determination of Volatile Organic Compounds | Result | RL | Units | DF | Note | Prepared | Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|
| trans-1,4-Dichloro-2-butene | <5.0 | 5.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1926 | LJS |
| 1,1,2,2-Tetrachloroethane | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1926 | LJS |
| 1,4-Dichlorobenzene | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1926 | LJS |
| 1,2-Dichlorobenzene | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1926 | LJS |
| 1,2-Dibromo-3-chloropropane | <5.0 | 5.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1926 | LJS |
| Surrogate: Dibromofluoromethane | 102 | Limit: 75-136 | % Rec | 1 | | 04/15/24 0000 | 04/15/24 1926 | LJS |
| Surrogate: Dibromofluoromethane | 102 | Limit: 80-126 | % Rec | 1 | | 04/15/24 0000 | 04/15/24 1926 | LJS |
| Surrogate: 1,2-Dichloroethane-d4 | 109 | Limit: 61-142 | % Rec | 1 | | 04/15/24 0000 | 04/15/24 1926 | LJS |
| Surrogate: 1,2-Dichloroethane-d4 | 109 | Limit: 63-138 | % Rec | 1 | | 04/15/24 0000 | 04/15/24 1926 | LJS |
| Surrogate: Toluene-d8 | 101 | Limit: 87-116 | % Rec | 1 | | 04/15/24 0000 | 04/15/24 1926 | LJS |
| Surrogate: Toluene-d8 | 101 | Limit: 82-121 | % Rec | 1 | | 04/15/24 0000 | 04/15/24 1926 | LJS |
| Surrogate: 4-Bromofluorobenzene | 102 | Limit: 80-116 | % Rec | 1 | | 04/15/24 0000 | 04/15/24 1926 | LJS |
| Surrogate: 4-Bromofluorobenzene | 102 | Limit: 85-111 | % Rec | 1 | | 04/15/24 0000 | 04/15/24 1926 | LJS |

| Determination of Total Metals | Result | RL | Units | DF | Note | Prepared | Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|
| **EPA 3005A/EPA 6020A** | | | | | | | | |
| Antimony, total | <0.0020 | 0.0020 | mg/L | 4 | | 04/12/24 1625 | 04/15/24 2346 | RVV |
| Arsenic, total | **0.0094** | 0.0040 | mg/L | 4 | | 04/12/24 1625 | 04/15/24 2346 | RVV |
| Barium, total | **0.0269** | 0.0040 | mg/L | 4 | | 04/12/24 1625 | 04/15/24 2346 | RVV |
| Beryllium, total | <0.0040 | 0.0040 | mg/L | 4 | | 04/12/24 1625 | 04/15/24 2346 | RVV |
| Cadmium, total | <0.0008 | 0.0008 | mg/L | 4 | | 04/12/24 1625 | 04/15/24 2346 | RVV |
| Chromium, total | <0.0080 | 0.0080 | mg/L | 4 | | 04/12/24 1625 | 04/15/24 2346 | RVV |
| Cobalt, total | **0.0276** | 0.0004 | mg/L | 4 | | 04/12/24 1625 | 04/15/24 2346 | RVV |
| Copper, total | **0.0063** | 0.0040 | mg/L | 4 | | 04/12/24 1625 | 04/15/24 2346 | RVV |
| Lead, total | <0.0040 | 0.0040 | mg/L | 4 | | 04/12/24 1625 | 04/15/24 2346 | RVV |
| Nickel, total | **0.0556** | 0.0040 | mg/L | 4 | | 04/12/24 1625 | 04/15/24 2346 | RVV |
| Selenium, total | <0.0040 | 0.0040 | mg/L | 4 | | 04/12/24 1625 | 04/15/24 2346 | RVV |
| Silver, total | <0.0040 | 0.0040 | mg/L | 4 | | 04/12/24 1625 | 04/15/24 2346 | RVV |
| Thallium, total | <0.0020 | 0.0020 | mg/L | 4 | | 04/12/24 1625 | 04/15/24 2346 | RVV |
| Vanadium, total | <0.0200 | 0.0200 | mg/L | 4 | | 04/12/24 1625 | 04/15/24 2346 | RVV |
| Zinc, total | **0.0211** | 0.0200 | mg/L | 4 | | 04/12/24 1625 | 04/15/24 2346 | RVV |

| | | | |
|---|---|---|---|
| **Client Sample ID:** | MW-110A | | |
| **Sample Matrix:** | Aqueous | **Collected By:** | Whipple, Todd |
| **Lab Sample ID:** | 1HD0953-07 | **Collection Date:** | 04/09/2024 11:54 |

| Determination of Volatile Organic Compounds | Result | RL | Units | DF | Note | Prepared | Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|
| **EPA 5030B/EPA 8260B** | | | | | | | | |
| Dichlorodifluoromethane | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1953 | LJS |
| Chloromethane | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1953 | LJS |
| Vinyl Chloride | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1953 | LJS |
| Bromomethane | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1953 | LJS |
| Chloroethane | **1.4** | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1953 | LJS |
| Trichlorofluoromethane | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1953 | LJS |
| Acrolein | <10.0 | 10.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1953 | LJS |
| 1,1-Dichloroethylene | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1953 | LJS |
| Acetone | <10.0 | 10.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1953 | LJS |
| Methyl Iodide | <2.0 | 2.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1953 | LJS |
| Carbon Disulfide | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1953 | LJS |
| Acetonitrile | <10.0 | 10.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1953 | LJS |
| Methylene Chloride | <5.0 | 5.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1953 | LJS |
| Acrylonitrile | <5.0 | 5.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1953 | LJS |
| trans-1,2-Dichloroethylene | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1953 | LJS |
| 1,1-Dichloroethane | **1.1** | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1953 | LJS |
| Vinyl Acetate | <5.0 | 5.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1953 | LJS |
| 2,2-Dichloropropane | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1953 | LJS |
| cis-1,2-Dichloroethylene | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1953 | LJS |
| 2-Butanone (MEK) | <5.0 | 5.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1953 | LJS |
| Bromochloromethane | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1953 | LJS |
| Chloroform | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1953 | LJS |
| 1,1,1-Trichloroethane | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1953 | LJS |
| 1,1-Dichloropropene | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1953 | LJS |
| Carbon Tetrachloride | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1953 | LJS |
| Benzene | **3.4** | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1953 | LJS |
| 1,2-Dichloroethane | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1953 | LJS |
| Trichloroethylene | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1953 | LJS |
| 1,2-Dichloropropane | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1953 | LJS |
| Dibromomethane | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1953 | LJS |
| Bromodichloromethane | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1953 | LJS |
| cis-1,3-Dichloropropene | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1953 | LJS |
| 4-Methyl-2-pentanone (MIBK) | <5.0 | 5.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1953 | LJS |
| Toluene | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1953 | LJS |
| trans-1,3-Dichloropropene | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1953 | LJS |
| Ethyl Methacrylate | <10.0 | 10.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1953 | LJS |
| 1,1,2-Trichloroethane | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1953 | LJS |
| Tetrachloroethylene | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1953 | LJS |
| 1,3-Dichloropropane | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1953 | LJS |
| 2-Hexanone (MBK) | <5.0 | 5.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1953 | LJS |
| Dibromochloromethane | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1953 | LJS |
| 1,2-Dibromoethane | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1953 | LJS |

| | | | |
|---|---|---|---|
| **Client Sample ID:** | MW-110A | | |
| **Sample Matrix:** | Aqueous | **Collected By:** | Whipple, Todd |
| **Lab Sample ID:** | 1HD0953-07 | **Collection Date:** | 04/09/2024 11:54 |

| Determination of Volatile Organic Compounds | Result | RL | Units | DF | Note | Prepared | Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|
| Chlorobenzene | **7.6** | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1953 | LJS |
| 1,1,1,2-Tetrachloroethane | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1953 | LJS |
| Ethylbenzene | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1953 | LJS |
| Xylenes, total | <2.0 | 2.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1953 | LJS |
| Styrene | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1953 | LJS |
| Bromoform | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1953 | LJS |
| 1,2,3-Trichloropropane | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1953 | LJS |
| trans-1,4-Dichloro-2-butene | <5.0 | 5.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1953 | LJS |
| 1,1,2,2-Tetrachloroethane | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1953 | LJS |
| 1,3-Dichlorobenzene | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1953 | LJS |
| 1,4-Dichlorobenzene | **3.6** | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1953 | LJS |
| 1,2-Dichlorobenzene | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1953 | LJS |
| 1,2-Dibromo-3-chloropropane | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1953 | LJS |
| 1,2,4-Trichlorobenzene | <1.0 | 1.0 | ug/L | 1 | | 04/15/24 0000 | 04/15/24 1953 | LJS |
| Allyl chloride | <1.0 | 1.0 | ug/L | 1 | | 04/17/24 0000 | 04/17/24 1908 | LJS |
| Chloroprene | <1.0 | 1.0 | ug/L | 1 | | 04/17/24 0000 | 04/17/24 1908 | LJS |
| Methacrylonitrile | <1.0 | 1.0 | ug/L | 1 | | 04/17/24 0000 | 04/17/24 1908 | LJS |
| Methyl Methacrylate | <1.0 | 1.0 | ug/L | 1 | | 04/17/24 0000 | 04/17/24 1908 | LJS |
| Propionitrile | <10.0 | 10.0 | ug/L | 1 | | 04/17/24 0000 | 04/17/24 1908 | LJS |
| Surrogate: Dibromofluoromethane | 101 | Limit: 80-126 | % Rec | 1 | | 04/15/24 0000 | 04/15/24 1953 | LJS |
| Surrogate: Dibromofluoromethane | 95.5 | Limit: 80-126 | % Rec | 1 | | 04/17/24 0000 | 04/17/24 1908 | LJS |
| Surrogate: 1,2-Dichloroethane-d4 | 107 | Limit: 63-138 | % Rec | 1 | | 04/15/24 0000 | 04/15/24 1953 | LJS |
| Surrogate: 1,2-Dichloroethane-d4 | 99.5 | Limit: 63-138 | % Rec | 1 | | 04/17/24 0000 | 04/17/24 1908 | LJS |
| Surrogate: 1,2-Dichloroethane-d4 | 107 | Limit: 63-138 | % Rec | 1 | | 04/15/24 0000 | 04/15/24 1953 | LJS |
| Surrogate: Toluene-d8 | 100 | Limit: 87-116 | % Rec | 1 | | 04/15/24 0000 | 04/15/24 1953 | LJS |
| Surrogate: Toluene-d8 | 97.4 | Limit: 87-116 | % Rec | 1 | | 04/17/24 0000 | 04/17/24 1908 | LJS |
| Surrogate: Toluene-d8 | 100 | Limit: 87-116 | % Rec | 1 | | 04/15/24 0000 | 04/15/24 1953 | LJS |
| Surrogate: 4-Bromofluorobenzene | 102 | Limit: 85-111 | % Rec | 1 | | 04/15/24 0000 | 04/15/24 1953 | LJS |
| Surrogate: 4-Bromofluorobenzene | 98.5 | Limit: 85-111 | % Rec | 1 | | 04/17/24 0000 | 04/17/24 1908 | LJS |
| Surrogate: 4-Bromofluorobenzene | 102 | Limit: 85-111 | % Rec | 1 | | 04/15/24 0000 | 04/15/24 1953 | LJS |

| Determination of General Solvents | Result | RL | Units | DF | Note | Prepared | Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|
| **EPA 8015C** | | | | | | | | |
| Isobutanol | <1.0 | 1.0 | mg/L | 1 | | 04/15/24 0830 | 04/15/24 2037 | PDS |

| Determination of Base/Neutral/Acid Extractable Compounds | Result | RL | Units | DF | Note | Prepared | Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|
| **EPA 3520C/EPA 8270C** | | | | | | | | |
| N-Nitrosodimethylamine | <8 | 8 | ug/L | 1 | | 04/15/24 1345 | 04/29/24 1752 | EPP |
| Methyl Methanesulfonate | <8 | 8 | ug/L | 1 | | 04/15/24 1345 | 04/29/24 1752 | EPP |
| N-Nitrosodiethylamine | <8 | 8 | ug/L | 1 | | 04/15/24 1345 | 04/29/24 1752 | EPP |
| N-Nitrosomethylethylamine | <8 | 8 | ug/L | 1 | | 04/15/24 1345 | 04/29/24 1752 | EPP |
| Ethyl Methanesulfonate | <8 | 8 | ug/L | 1 | | 04/15/24 1345 | 04/29/24 1752 | EPP |
| Phenol | <8 | 8 | ug/L | 1 | | 04/15/24 1345 | 04/29/24 1752 | EPP |

| | | | |
|---|---|---|---|
| **Client Sample ID:** | MW-110A | | |
| **Sample Matrix:** | Aqueous | **Collected By:** | Whipple, Todd |
| **Lab Sample ID:** | 1HD0953-07 | **Collection Date:** | 04/09/2024 11:54 |

| Determination of Base/Neutral/Acid Extractable Compounds | Result | RL | Units | DF | Note | Prepared | Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|
| Bis(2-Chloroethyl) Ether | <8 | 8 | ug/L | 1 | | 04/15/24 1345 | 04/29/24 1752 | EPP |
| 2-Chlorophenol | <8 | 8 | ug/L | 1 | | 04/15/24 1345 | 04/29/24 1752 | EPP |
| Benzyl Alcohol | <8 | 8 | ug/L | 1 | | 04/15/24 1345 | 04/29/24 1752 | EPP |
| 2-Methylphenol (o-Cresol) | <8 | 8 | ug/L | 1 | | 04/15/24 1345 | 04/29/24 1752 | EPP |
| Bis[2-Chloroisopropyl]ether | <8 | 8 | ug/L | 1 | | 04/15/24 1345 | 04/29/24 1752 | EPP |
| n-Nitroso-di-n-propylamine | <8 | 8 | ug/L | 1 | | 04/15/24 1345 | 04/29/24 1752 | EPP |
| N-Nitrosopyrrolidine | <8 | 8 | ug/L | 1 | | 04/15/24 1345 | 04/29/24 1752 | EPP |
| Acetophenone | <8 | 8 | ug/L | 1 | | 04/15/24 1345 | 04/29/24 1752 | EPP |
| o-Toluidine | <8 | 8 | ug/L | 1 | | 04/15/24 1345 | 04/29/24 1752 | EPP |
| (3 & 4)-Methylphenol | <8 | 8 | ug/L | 1 | | 04/15/24 1345 | 04/29/24 1752 | EPP |
| Hexachloroethane | <8 | 8 | ug/L | 1 | | 04/15/24 1345 | 04/29/24 1752 | EPP |
| Nitrobenzene | <8 | 8 | ug/L | 1 | | 04/15/24 1345 | 04/29/24 1752 | EPP |
| N-Nitrosopiperidine | <8 | 8 | ug/L | 1 | | 04/15/24 1345 | 04/29/24 1752 | EPP |
| Isophorone | <8 | 8 | ug/L | 1 | | 04/15/24 1345 | 04/29/24 1752 | EPP |
| 2-Nitrophenol | <8 | 8 | ug/L | 1 | | 04/15/24 1345 | 04/29/24 1752 | EPP |
| 2,4-Dimethylphenol | <8 | 8 | ug/L | 1 | | 04/15/24 1345 | 04/29/24 1752 | EPP |
| Bis (2-Chloroethoxy) Methane | <8 | 8 | ug/L | 1 | | 04/15/24 1345 | 04/29/24 1752 | EPP |
| 2,4-Dichlorophenol | <8 | 8 | ug/L | 1 | | 04/15/24 1345 | 04/29/24 1752 | EPP |
| Naphthalene | <8 | 8 | ug/L | 1 | | 04/15/24 1345 | 04/29/24 1752 | EPP |
| 4-Chloroaniline | <8 | 8 | ug/L | 1 | | 04/15/24 1345 | 04/29/24 1752 | EPP |
| 2,6-Dichlorophenol | <8 | 8 | ug/L | 1 | | 04/15/24 1345 | 04/29/24 1752 | EPP |
| Hexachloropropene | <8 | 8 | ug/L | 1 | | 04/15/24 1345 | 04/29/24 1752 | EPP |
| Hexachlorobutadiene | <8 | 8 | ug/L | 1 | | 04/15/24 1345 | 04/29/24 1752 | EPP |
| N-Nitrosodi-n-butylamine | <8 | 8 | ug/L | 1 | | 04/15/24 1345 | 04/29/24 1752 | EPP |
| 1,4-Phenylenediamine | <8 | 8 | ug/L | 1 | | 04/15/24 1345 | 04/29/24 1752 | EPP |
| 4-Chloro-3-methylphenol | <8 | 8 | ug/L | 1 | | 04/15/24 1345 | 04/29/24 1752 | EPP |
| 2-Methylnaphthalene | <8 | 8 | ug/L | 1 | | 04/15/24 1345 | 04/29/24 1752 | EPP |
| Isosafrole | <8 | 8 | ug/L | 1 | | 04/15/24 1345 | 04/29/24 1752 | EPP |
| 1,2,4,5-Tetrachlorobenzene | <8 | 8 | ug/L | 1 | | 04/15/24 1345 | 04/29/24 1752 | EPP |
| Hexachlorocyclopentadiene | <8 | 8 | ug/L | 1 | | 04/15/24 1345 | 04/29/24 1752 | EPP |
| 2,4,6-Trichlorophenol | <8 | 8 | ug/L | 1 | | 04/15/24 1345 | 04/29/24 1752 | EPP |
| 2,4,5-Trichlorophenol | <8 | 8 | ug/L | 1 | | 04/15/24 1345 | 04/29/24 1752 | EPP |
| Safrole | <8 | 8 | ug/L | 1 | | 04/15/24 1345 | 04/29/24 1752 | EPP |
| 2-Chloronaphthalene | <8 | 8 | ug/L | 1 | | 04/15/24 1345 | 04/29/24 1752 | EPP |
| 2-Nitroaniline | <8 | 8 | ug/L | 1 | | 04/15/24 1345 | 04/29/24 1752 | EPP |
| 1,4-Naphthoquinone | <8 | 8 | ug/L | 1 | | 04/15/24 1345 | 04/29/24 1752 | EPP |
| Dimethylphthalate | <8 | 8 | ug/L | 1 | | 04/15/24 1345 | 04/29/24 1752 | EPP |
| 1,3-Dinitrobenzene | <8 | 8 | ug/L | 1 | | 04/15/24 1345 | 04/29/24 1752 | EPP |
| 1,2-Dinitrobenzene | <8 | 8 | ug/L | 1 | | 04/15/24 1345 | 04/29/24 1752 | EPP |
| 2,6-Dinitrotoluene | <8 | 8 | ug/L | 1 | | 04/15/24 1345 | 04/29/24 1752 | EPP |
| Acenaphthylene | <8 | 8 | ug/L | 1 | | 04/15/24 1345 | 04/29/24 1752 | EPP |
| 3-Nitroaniline | <8 | 8 | ug/L | 1 | | 04/15/24 1345 | 04/29/24 1752 | EPP |
| Acenaphthene | <8 | 8 | ug/L | 1 | | 04/15/24 1345 | 04/29/24 1752 | EPP |

| | | | |
|---|---|---|---|
| **Client Sample ID:** | MW-110A | | |
| **Sample Matrix:** | Aqueous | **Collected By:** | Whipple, Todd |
| **Lab Sample ID:** | 1HD0953-07 | **Collection Date:** | 04/09/2024 11:54 |

| Determination of Base/Neutral/Acid Extractable Compounds | Result | RL | Units | DF | Note | Prepared | Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|
| 2,4-Dinitrophenol | <8 | 8 | ug/L | 1 | | 04/15/24 1345 | 04/29/24 1752 | EPP |
| 4-Nitrophenol | <8 | 8 | ug/L | 1 | | 04/15/24 1345 | 04/29/24 1752 | EPP |
| Dibenzofuran | <8 | 8 | ug/L | 1 | | 04/15/24 1345 | 04/29/24 1752 | EPP |
| 2,4-Dinitrotoluene | <8 | 8 | ug/L | 1 | | 04/15/24 1345 | 04/29/24 1752 | EPP |
| 2,3,4,6-Tetrachlorophenol | <8 | 8 | ug/L | 1 | | 04/15/24 1345 | 04/29/24 1752 | EPP |
| Pentachlorobenzene | <8 | 8 | ug/L | 1 | | 04/15/24 1345 | 04/29/24 1752 | EPP |
| 1-Naphthylamine | <8 | 8 | ug/L | 1 | | 04/15/24 1345 | 04/29/24 1752 | EPP |
| 2-Naphthylamine | <8 | 8 | ug/L | 1 | | 04/15/24 1345 | 04/29/24 1752 | EPP |
| Diethyl Phthalate | <8 | 8 | ug/L | 1 | | 04/15/24 1345 | 04/29/24 1752 | EPP |
| Fluorene | <8 | 8 | ug/L | 1 | | 04/15/24 1345 | 04/29/24 1752 | EPP |
| 4-Chlorophenyl Phenyl Ether | <8 | 8 | ug/L | 1 | | 04/15/24 1345 | 04/29/24 1752 | EPP |
| 4-Nitroaniline | <8 | 8 | ug/L | 1 | | 04/15/24 1345 | 04/29/24 1752 | EPP |
| 5-Nitro-o-toluidine | <8 | 8 | ug/L | 1 | | 04/15/24 1345 | 04/29/24 1752 | EPP |
| 4,6-Dinitro-2-methylphenol | <8 | 8 | ug/L | 1 | | 04/15/24 1345 | 04/29/24 1752 | EPP |
| N-Nitrosodiphenylamine | <8 | 8 | ug/L | 1 | | 04/15/24 1345 | 04/29/24 1752 | EPP |
| Diphenylamine | <8 | 8 | ug/L | 1 | | 04/15/24 1345 | 04/29/24 1752 | EPP |
| Azobenzene | <8 | 8 | ug/L | 1 | | 04/15/24 1345 | 04/29/24 1752 | EPP |
| Diallate | <8 | 8 | ug/L | 1 | | 04/15/24 1345 | 04/29/24 1752 | EPP |
| 1,3,5-Trinitrobenzene | <8 | 8 | ug/L | 1 | | 04/15/24 1345 | 04/29/24 1752 | EPP |
| Phenacetin | <8 | 8 | ug/L | 1 | | 04/15/24 1345 | 04/29/24 1752 | EPP |
| 4-Bromophenyl Phenyl Ether | <8 | 8 | ug/L | 1 | | 04/15/24 1345 | 04/29/24 1752 | EPP |
| 4-Aminobiphenyl | <8 | 8 | ug/L | 1 | | 04/15/24 1345 | 04/29/24 1752 | EPP |
| Pentachlorophenol | <8 | 8 | ug/L | 1 | | 04/15/24 1345 | 04/29/24 1752 | EPP |
| Pronamide | <8 | 8 | ug/L | 1 | | 04/15/24 1345 | 04/29/24 1752 | EPP |
| Pentachloronitrobenzene (PCNB) | <8 | 8 | ug/L | 1 | | 04/15/24 1345 | 04/29/24 1752 | EPP |
| Phenanthrene | <8 | 8 | ug/L | 1 | | 04/15/24 1345 | 04/29/24 1752 | EPP |
| Anthracene | <8 | 8 | ug/L | 1 | | 04/15/24 1345 | 04/29/24 1752 | EPP |
| Di-n-butyl Phthalate | <8 | 8 | ug/L | 1 | | 04/15/24 1345 | 04/29/24 1752 | EPP |
| Methapyrilene | <8 | 8 | ug/L | 1 | | 04/15/24 1345 | 04/29/24 1752 | EPP |
| Fluoranthene | <8 | 8 | ug/L | 1 | | 04/15/24 1345 | 04/29/24 1752 | EPP |
| Isodrin | <8 | 8 | ug/L | 1 | | 04/15/24 1345 | 04/29/24 1752 | EPP |
| Chlorobenzilate | <8 | 8 | ug/L | 1 | | 04/15/24 1345 | 04/29/24 1752 | EPP |
| Pyrene | <8 | 8 | ug/L | 1 | | 04/15/24 1345 | 04/29/24 1752 | EPP |
| p-(Dimethylamino)azobenzene | <8 | 8 | ug/L | 1 | | 04/15/24 1345 | 04/29/24 1752 | EPP |
| 3,3-Dimethylbenzidine | <8 | 8 | ug/L | 1 | | 04/15/24 1345 | 04/29/24 1752 | EPP |
| Butyl Benzyl Phthalate | <8 | 8 | ug/L | 1 | | 04/15/24 1345 | 04/29/24 1752 | EPP |
| Benzo(a)anthracene | <8 | 8 | ug/L | 1 | | 04/15/24 1345 | 04/29/24 1752 | EPP |
| Chrysene | <8 | 8 | ug/L | 1 | | 04/15/24 1345 | 04/29/24 1752 | EPP |
| Bis(2-Ethylhexyl) Phthalate | <6 | 6 | ug/L | 1 | | 04/15/24 1345 | 04/29/24 1752 | EPP |
| Kepone | <8 | 8 | ug/L | 1 | | 04/15/24 1345 | 04/29/24 1752 | EPP |
| 3,3´-Dichlorobenzidine | <8 | 8 | ug/L | 1 | | 04/15/24 1345 | 04/29/24 1752 | EPP |
| 2-Acetylaminofluorene | <8 | 8 | ug/L | 1 | | 04/15/24 1345 | 04/29/24 1752 | EPP |
| Di-n-octyl Phthalate | <8 | 8 | ug/L | 1 | | 04/15/24 1345 | 04/29/24 1752 | EPP |

| | | | |
|---|---|---|---|
| **Client Sample ID:** | MW-110A | | |
| **Sample Matrix:** | Aqueous | **Collected By:** | Whipple, Todd |
| **Lab Sample ID:** | 1HD0953-07 | **Collection Date:** | 04/09/2024 11:54 |

| Determination of Base/Neutral/Acid Extractable Compounds | Result | RL | Units | DF | Note | Prepared | Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|
| Benzo(b)Fluoranthene | <8 | 8 | ug/L | 1 | | 04/15/24 1345 | 04/29/24 1752 | EPP |
| 7,12-Dimethylbenz [a] anthracene | <8 | 8 | ug/L | 1 | | 04/15/24 1345 | 04/29/24 1752 | EPP |
| Benzo(k)Fluoranthene | <8 | 8 | ug/L | 1 | | 04/15/24 1345 | 04/29/24 1752 | EPP |
| Benzo(a)Pyrene | <8 | 8 | ug/L | 1 | | 04/15/24 1345 | 04/29/24 1752 | EPP |
| 3-Methylcholanthrene | <8 | 8 | ug/L | 1 | | 04/15/24 1345 | 04/29/24 1752 | EPP |
| Dibenzo(a,h)anthracene | <8 | 8 | ug/L | 1 | | 04/15/24 1345 | 04/29/24 1752 | EPP |
| Indeno(1,2,3-cd)Pyrene | <8 | 8 | ug/L | 1 | | 04/15/24 1345 | 04/29/24 1752 | EPP |
| Benzo(g,h,i)perylene | <8 | 8 | ug/L | 1 | | 04/15/24 1345 | 04/29/24 1752 | EPP |
| Surrogate: 2-Fluorophenol | 60.2 | Limit: 24-136 | % Rec | 1 | | 04/15/24 1345 | 04/29/24 1752 | EPP |
| Surrogate: Phenol-d6 | 60.2 | Limit: 15-140 | % Rec | 1 | | 04/15/24 1345 | 04/29/24 1752 | EPP |
| Surrogate: Nitrobenzene-d5 | 62.7 | Limit: 29-130 | % Rec | 1 | | 04/15/24 1345 | 04/29/24 1752 | EPP |
| Surrogate: 2-Fluorobiphenyl | 54.7 | Limit: 23-113 | % Rec | 1 | | 04/15/24 1345 | 04/29/24 1752 | EPP |
| Surrogate: 2,4,6-Tribromophenol | 71.1 | Limit: 15-139 | % Rec | 1 | | 04/15/24 1345 | 04/29/24 1752 | EPP |
| Surrogate: Terphenyl-dl4 | 40.7 | Limit: 27-141 | % Rec | 1 | | 04/15/24 1345 | 04/29/24 1752 | EPP |

| Determination of Organophosphorus Insecticides | Result | RL | Units | DF | Note | Prepared | Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|
| **EPA 3510C/EPA 8141** | | | | | | | | |
| O,O,O-Triethyl phosphorothioate | <0.4 | 0.4 | ug/L | 1 | | 04/15/24 1644 | 04/18/24 2114 | EPP |
| Thionazin | <0.4 | 0.4 | ug/L | 1 | | 04/15/24 1644 | 04/18/24 2114 | EPP |
| Phorate | <0.4 | 0.4 | ug/L | 1 | | 04/15/24 1644 | 04/18/24 2114 | EPP |
| Dimethoate | <0.4 | 0.4 | ug/L | 1 | | 04/15/24 1644 | 04/18/24 2114 | EPP |
| Disulfoton | <0.4 | 0.4 | ug/L | 1 | | 04/15/24 1644 | 04/18/24 2114 | EPP |
| Methyl Parathion | <0.4 | 0.4 | ug/L | 1 | | 04/15/24 1644 | 04/18/24 2114 | EPP |
| Parathion | <0.4 | 0.4 | ug/L | 1 | | 04/15/24 1644 | 04/18/24 2114 | EPP |
| Famphur | <0.4 | 0.4 | ug/L | 1 | | 04/15/24 1644 | 04/18/24 2114 | EPP |
| Surrogate: 2-Nitro-m-xylene | 83.6 | Limit: 38-122 | % Rec | 1 | | 04/15/24 1644 | 04/18/24 2114 | EPP |

| Determination of Chlorinated Phenoxy Herbicides | Result | RL | Units | DF | Note | Prepared | Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|
| **EPA 8151A** | | | | | | | | |
| 2,4-D | <2.0 | 2.0 | ug/L | 1 | | 04/15/24 1731 | 04/30/24 1717 | MSV |
| 2,4,5-TP (Silvex) | <0.5 | 0.5 | ug/L | 1 | | 04/15/24 1731 | 04/30/24 1717 | MSV |
| 2,4,5-T | <0.5 | 0.5 | ug/L | 1 | | 04/15/24 1731 | 04/30/24 1717 | MSV |
| Dinoseb | <0.5 | 0.5 | ug/L | 1 | | 04/15/24 1731 | 04/30/24 1717 | MSV |
| Surrogate: 2,5-Dichlorobenzoic Acid | 141 | Limit: 31-116 | % Rec | 1 | **S-07** | 04/15/24 1731 | 04/30/24 1717 | MSV |

| Determination of Organochlorine Insecticides & Metabolites | Result | RL | Units | DF | Note | Prepared | Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|
| **EPA 3510C/EPA 8081** | | | | | | | | |
| Alpha-BHC | <0.05 | 0.05 | ug/L | 1 | | 04/15/24 1643 | 04/17/24 1929 | EPP |
| Gamma-BHC [Lindane] | <0.05 | 0.05 | ug/L | 1 | | 04/15/24 1643 | 04/17/24 1929 | EPP |
| Beta-BHC | <0.05 | 0.05 | ug/L | 1 | | 04/15/24 1643 | 04/17/24 1929 | EPP |
| Heptachlor | <0.05 | 0.05 | ug/L | 1 | | 04/15/24 1643 | 04/17/24 1929 | EPP |

| | | | |
|---|---|---|---|
| **Client Sample ID:** | MW-110A | | |
| **Sample Matrix:** | Aqueous | **Collected By:** | Whipple, Todd |
| **Lab Sample ID:** | 1HD0953-07 | **Collection Date:** | 04/09/2024 11:54 |

| Determination of Organochlorine Insecticides & Metabolites | Result | RL | Units | DF | Note | Prepared | Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|
| Delta-BHC | <0.05 | 0.05 | ug/L | 1 | | 04/15/24 1643 | 04/17/24 1929 | EPP |
| Aldrin | <0.05 | 0.05 | ug/L | 1 | | 04/15/24 1643 | 04/17/24 1929 | EPP |
| Heptachlor Epoxide | <0.05 | 0.05 | ug/L | 1 | | 04/15/24 1643 | 04/17/24 1929 | EPP |
| Endosulfan I | <0.05 | 0.05 | ug/L | 1 | | 04/15/24 1643 | 04/17/24 1929 | EPP |
| 4,4`-DDE | <0.05 | 0.05 | ug/L | 1 | | 04/15/24 1643 | 04/17/24 1929 | EPP |
| Dieldrin | <0.05 | 0.05 | ug/L | 1 | | 04/15/24 1643 | 04/17/24 1929 | EPP |
| Endrin | <0.05 | 0.05 | ug/L | 1 | | 04/15/24 1643 | 04/17/24 1929 | EPP |
| 4,4`-DDD | <0.05 | 0.05 | ug/L | 1 | | 04/15/24 1643 | 04/17/24 1929 | EPP |
| Endosulfan II | <0.05 | 0.05 | ug/L | 1 | | 04/15/24 1643 | 04/17/24 1929 | EPP |
| 4,4`-DDT | <0.05 | 0.05 | ug/L | 1 | | 04/15/24 1643 | 04/17/24 1929 | EPP |
| Endrin Aldehyde | <0.05 | 0.05 | ug/L | 1 | | 04/15/24 1643 | 04/17/24 1929 | EPP |
| Endosulfan Sulfate | <0.05 | 0.05 | ug/L | 1 | | 04/15/24 1643 | 04/17/24 1929 | EPP |
| Methoxychlor | <0.05 | 0.05 | ug/L | 1 | | 04/15/24 1643 | 04/17/24 1929 | EPP |
| Chlordane | <0.10 | 0.10 | ug/L | 1 | | 04/15/24 1643 | 04/17/24 1929 | EPP |
| Toxaphene | <0.20 | 0.20 | ug/L | 1 | | 04/15/24 1643 | 04/17/24 1929 | EPP |
| Hexachlorobenzene | <0.05 | 0.05 | ug/L | 1 | | 04/15/24 1643 | 04/17/24 1929 | EPP |
| Surrogate: Tetrachloro-m-xylene | 81.0 | Limit: 10-121 | % Rec | 1 | | 04/15/24 1643 | 04/17/24 1929 | EPP |

| Determination of Polychlorinated Biphenyls (PCB) | Result | RL | Units | DF | Note | Prepared | Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|
| **EPA 3510C/EPA 8082** | | | | | | | | |
| Arochlor 1016 | <0.20 | 0.20 | ug/L | 1 | | 04/15/24 1643 | 04/17/24 1929 | EPP |
| Arochlor 1221 | <0.20 | 0.20 | ug/L | 1 | | 04/15/24 1643 | 04/17/24 1929 | EPP |
| Arochlor 1232 | <0.20 | 0.20 | ug/L | 1 | | 04/15/24 1643 | 04/17/24 1929 | EPP |
| Arochlor 1242 | <0.20 | 0.20 | ug/L | 1 | | 04/15/24 1643 | 04/17/24 1929 | EPP |
| Arochlor 1248 | <0.20 | 0.20 | ug/L | 1 | | 04/15/24 1643 | 04/17/24 1929 | EPP |
| Arochlor 1254 | <0.20 | 0.20 | ug/L | 1 | | 04/15/24 1643 | 04/17/24 1929 | EPP |
| Arochlor 1260 | <0.20 | 0.20 | ug/L | 1 | | 04/15/24 1643 | 04/17/24 1929 | EPP |
| Surrogate: Tetrachloro-m-xylene | 87.5 | Limit: 38-121 | % Rec | 1 | | 04/15/24 1643 | 04/17/24 1929 | EPP |
| Surrogate: Decachlorobiphenyl | 82.2 | Limit: 25-119 | % Rec | 1 | | 04/15/24 1643 | 04/17/24 1929 | EPP |

| Determination of Conventional Chemistry Parameters | Result | RL | Units | DF | Note | Prepared | Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|
| **EPA 376.2** | | | | | | | | |
| Sulfide, total | <0.30 | 0.30 | mg/L | 1 | | 04/11/24 0922 | 04/15/24 1717 | CHP |
| **EPA 9010B** | | | | | | | | |
| Cyanide, total | <0.005 | 0.005 | mg/L | 1 | | 04/18/24 1716 | 04/21/24 1210 | CHP |

| Determination of Total Metals | Result | RL | Units | DF | Note | Prepared | Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|
| **EPA 3005A/EPA 6020A** | | | | | | | | |
| Antimony, total | <0.0020 | 0.0020 | mg/L | 4 | | 04/12/24 1625 | 04/15/24 2352 | RVV |
| Arsenic, total | **0.0070** | 0.0040 | mg/L | 4 | | 04/12/24 1625 | 04/15/24 2352 | RVV |
| Barium, total | **0.199** | 0.0040 | mg/L | 4 | | 04/12/24 1625 | 04/15/24 2352 | RVV |

**Client Sample ID:** MW-110A
**Sample Matrix:** Aqueous
**Lab Sample ID:** 1HD0953-07
**Collected By:** Whipple, Todd
**Collection Date:** 04/09/2024 11:54

| Determination of Total Metals | Result | RL | Units | DF | Note | Prepared | Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|
| Beryllium, total | <0.0040 | 0.0040 | mg/L | 4 | | 04/12/24 1625 | 04/15/24 2352 | RVV |
| Cadmium, total | <0.0008 | 0.0008 | mg/L | 4 | | 04/12/24 1625 | 04/15/24 2352 | RVV |
| Chromium, total | <0.0080 | 0.0080 | mg/L | 4 | | 04/12/24 1625 | 04/15/24 2352 | RVV |
| Cobalt, total | **1.46** | 0.0004 | mg/L | 4 | | 04/12/24 1625 | 04/15/24 2352 | RVV |
| Copper, total | **0.0042** | 0.0040 | mg/L | 4 | | 04/12/24 1625 | 04/15/24 2352 | RVV |
| Lead, total | <0.0040 | 0.0040 | mg/L | 4 | | 04/12/24 1625 | 04/15/24 2352 | RVV |
| Nickel, total | **0.456** | 0.0040 | mg/L | 4 | | 04/12/24 1625 | 04/15/24 2352 | RVV |
| Selenium, total | <0.0040 | 0.0040 | mg/L | 4 | | 04/12/24 1625 | 04/15/24 2352 | RVV |
| Silver, total | <0.0040 | 0.0040 | mg/L | 4 | | 04/12/24 1625 | 04/15/24 2352 | RVV |
| Thallium, total | <0.0020 | 0.0020 | mg/L | 4 | | 04/12/24 1625 | 04/15/24 2352 | RVV |
| Tin, total | <0.0200 | 0.0200 | mg/L | 4 | | 04/12/24 1625 | 04/15/24 2352 | RVV |
| Vanadium, total | <0.0200 | 0.0200 | mg/L | 4 | | 04/12/24 1625 | 04/15/24 2352 | RVV |
| Zinc, total | **0.0214** | 0.0200 | mg/L | 4 | | 04/12/24 1625 | 04/15/24 2352 | RVV |
| **EPA 7470A** | | | | | | | | |
| Mercury, total | <0.00050 | 0.00050 | mg/L | 1 | | 04/16/24 1340 | 04/17/24 1621 | JAR |

**Client Sample ID:** Duplicate
**Sample Matrix:** Aqueous
**Lab Sample ID:** 1HD0953-08
**Collected By:** Whipple, Todd
**Collection Date:** 04/09/2024

| Determination of Total Metals | Result | RL | Units | DF | Note | Prepared | Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|
| **EPA 3005A/EPA 6020A** | | | | | | | | |
| Antimony, total | <0.0020 | 0.0020 | mg/L | 4 | | 04/12/24 1625 | 04/15/24 2358 | RVV |
| Arsenic, total | <0.0040 | 0.0040 | mg/L | 4 | | 04/12/24 1625 | 04/15/24 2358 | RVV |
| Barium, total | **0.0566** | 0.0040 | mg/L | 4 | | 04/12/24 1625 | 04/15/24 2358 | RVV |
| Beryllium, total | <0.0040 | 0.0040 | mg/L | 4 | | 04/12/24 1625 | 04/15/24 2358 | RVV |
| Cadmium, total | <0.0008 | 0.0008 | mg/L | 4 | | 04/12/24 1625 | 04/15/24 2358 | RVV |
| Chromium, total | <0.0080 | 0.0080 | mg/L | 4 | | 04/12/24 1625 | 04/15/24 2358 | RVV |
| Cobalt, total | **0.0006** | 0.0004 | mg/L | 4 | | 04/12/24 1625 | 04/15/24 2358 | RVV |
| Copper, total | <0.0040 | 0.0040 | mg/L | 4 | | 04/12/24 1625 | 04/15/24 2358 | RVV |
| Lead, total | <0.0040 | 0.0040 | mg/L | 4 | | 04/12/24 1625 | 04/15/24 2358 | RVV |
| Nickel, total | <0.0040 | 0.0040 | mg/L | 4 | | 04/12/24 1625 | 04/15/24 2358 | RVV |
| Selenium, total | <0.0040 | 0.0040 | mg/L | 4 | | 04/12/24 1625 | 04/15/24 2358 | RVV |
| Silver, total | <0.0040 | 0.0040 | mg/L | 4 | | 04/12/24 1625 | 04/15/24 2358 | RVV |
| Thallium, total | <0.0020 | 0.0020 | mg/L | 4 | | 04/12/24 1625 | 04/15/24 2358 | RVV |
| Vanadium, total | <0.0200 | 0.0200 | mg/L | 4 | | 04/12/24 1625 | 04/15/24 2358 | RVV |
| Zinc, total | <0.0200 | 0.0200 | mg/L | 4 | | 04/12/24 1625 | 04/15/24 2358 | RVV |

**Batch Log Summary**

| Method | Batch | Laboratory ID | Client / Source ID |
|---|---|---|---|
| EPA 376.2 | 1HD0714 | 1HD0714-BLK1 | |
| | | 1HD0953-07 | MW-110A |
| | | 1HD0714-MSD1 | 1HD0788-02 |
| | | 1HD0714-MS1 | 1HD0788-02 |
| | | 1HD0714-BS1 | |

| Method | Batch | Laboratory ID | Client / Source ID |
|---|---|---|---|
| EPA 6020A | 1HD0843 | 1HD0843-BLK1 | |
| | | 1HD0843-BS1 | |
| | | 1HD0843-MS1 | 1HD0949-01 |
| | | 1HD0843-MSD1 | 1HD0949-01 |
| | | 1HD0843-PS1 | 1HD0949-01 |
| | | 1HD0953-01 | MW-1 |
| | | 1HD0953-02 | MW-2A |
| | | 1HD0953-03 | MW-3 |
| | | 1HD0953-04 | MW-4 |
| | | 1HD0953-05 | MW-105B |
| | | 1HD0953-06 | MW-108A |
| | | 1HD0953-07 | MW-110A |
| | | 1HD0953-08 | Duplicate |

| Method | Batch | Laboratory ID | Client / Source ID |
|---|---|---|---|
| EPA 8015C | 1HD0875 | 1HD0875-BS1 | |
| | | 1HD0875-BLK1 | |
| | | 1HD0953-07 | MW-110A |
| | | 1HD0875-MS1 | 1HD0193-01 |
| | | 1HD0875-MSD1 | 1HD0193-01 |

| Method | Batch | Laboratory ID | Client / Source ID |
|---|---|---|---|
| EPA 8270C | 1HD0906 | 1HD0906-BLK1 | |
| | | 1HD0906-BS1 | |
| | | 1HD0906-BSD1 | |
| | | 1HD0953-07 | MW-110A |

| Method | Batch | Laboratory ID | Client / Source ID |
|---|---|---|---|
| EPA 8081 | 1HD0934 | 1HD0934-BLK1 | |
| | | 1HD0934-BS1 | |
| | | 1HD0934-BSD1 | |
| | | 1HD0953-07 | MW-110A |

| Method | Batch | Laboratory ID | Client / Source ID |
|---|---|---|---|

| | | | |
|---|---|---|---|
| EPA 8082 | 1HD0935 | 1HD0935-BLK1 | |
| | | 1HD0935-BS1 | |
| | | 1HD0935-BSD1 | |
| | | 1HD0953-07 | MW-110A |

| Method | Batch | Laboratory ID | Client / Source ID |
|---|---|---|---|
| EPA 8141 | 1HD0937 | 1HD0937-BLK1 | |
| | | 1HD0953-07 | MW-110A |
| | | 1HD0937-BS1 | |
| | | 1HD0937-BSD1 | |

| Method | Batch | Laboratory ID | Client / Source ID |
|---|---|---|---|
| EPA 8151A | 1HD0942 | 1HD0942-BLK1 | |
| | | 1HD0942-BS1 | |
| | | 1HD0942-BSD1 | |
| | | 1HD0953-07 | MW-110A |

| Method | Batch | Laboratory ID | Client / Source ID |
|---|---|---|---|
| EPA 8260B | 1HD0944 | 1HD0944-BS1 | |
| | | 1HD0944-BSD1 | |
| | | 1HD0944-BLK1 | |
| | | 1HD0953-01 | MW-1 |
| | | 1HD0953-02 | MW-2A |
| | | 1HD0953-03 | MW-3 |
| | | 1HD0953-04 | MW-4 |
| | | 1HD0953-05 | MW-105B |
| | | 1HD0953-06 | MW-108A |
| | | 1HD0953-07 | MW-110A |

| Method | Batch | Laboratory ID | Client / Source ID |
|---|---|---|---|
| EPA 7470A | 1HD0991 | 1HD0991-BLK1 | |
| | | 1HD0991-BS1 | |
| | | 1HD0953-07 | MW-110A |
| | | 1HD0991-MS1 | 1HD0953-07 |
| | | 1HD0991-MSD1 | 1HD0953-07 |

| Method | Batch | Laboratory ID | Client / Source ID |
|---|---|---|---|
| EPA 8260B | 1HD1128 | 1HD1128-BS1 | |
| | | 1HD1128-BSD1 | |
| | | 1HD1128-BLK1 | |
| | | 1HD0953-07 | MW-110A |
| | | 1HD1128-MS1 | 1HD0953-07 |
| | | 1HD1128-MSD1 | 1HD0953-07 |

| Method | Batch | Laboratory ID | Client / Source ID |
|---|---|---|---|

| | | | |
|---|---|---|---|
| EPA 9010B | 1HD1205 | 1HD1205-BLK1 | |
| | | 1HD1205-BS1 | |
| | | 1HD1205-MS1 | 1HD0814-02 |
| | | 1HD1205-MSD1 | 1HD0814-02 |
| | | 1HD0953-07 | MW-110A |

**Batch Quality Control Summary: Microbac Laboratories, Inc., Newton**

| Determination of Volatile Organic Compounds | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 1HD0944 - EPA 5030B - EPA 8260B** | | | | | | | | | | |
| **Blank (1HD0944-BLK1)** | | | Prepared: 04/15/24 00:00 Analyzed: 04/15/24 10:55 | | | | | | | |
| Dichlorodifluoromethane | <1.0 | 1.0 | ug/L | | | | | | | |
| Chloromethane | <1.0 | 1.0 | ug/L | | | | | | | |
| Chloromethane | <1.0 | 1.0 | ug/L | | | | | | | |
| Vinyl Chloride | <1.0 | 1.0 | ug/L | | | | | | | |
| Vinyl Chloride | <1.0 | 1.0 | ug/L | | | | | | | |
| Bromomethane | <1.0 | 1.0 | ug/L | | | | | | | |
| Bromomethane | <1.0 | 1.0 | ug/L | | | | | | | |
| Chloroethane | <1.0 | 1.0 | ug/L | | | | | | | |
| Chloroethane | <1.0 | 1.0 | ug/L | | | | | | | |
| Trichlorofluoromethane | <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 | | | | | | | |
| 1,1-Dichloroethylene | <1.0 | 1.0 | ug/L | | | | | | | |
| Acetone | <10.0 | 10.0 | ug/L | | | | | | | |
| Acetone | <10.0 | 10.0 | ug/L | | | | | | | |
| Methyl Iodide | <2.0 | 2.0 | ug/L | | | | | | | |
| Methyl Iodide | <1.0 | 1.0 | ug/L | | | | | | | |
| Carbon Disulfide | <1.0 | 1.0 | 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 | | | | | | | |
| 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 | | | | | | | |
| trans-1,2-Dichloroethylene | <1.0 | 1.0 | ug/L | | | | | | | |
| 1,1-Dichloroethane | <1.0 | 1.0 | ug/L | | | | | | | |
| 1,1-Dichloroethane | <1.0 | 1.0 | ug/L | | | | | | | |
| Vinyl Acetate | <5.0 | 5.0 | 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 | | | | | | | |
| cis-1,2-Dichloroethylene | <1.0 | 1.0 | ug/L | | | | | | | |
| 2-Butanone (MEK) | <5.0 | 5.0 | ug/L | | | | | | | |

| Determination of Volatile Organic Compounds | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 1HD0944 - EPA 5030B - EPA 8260B** | | | | | | | | | | |
| **Blank (1HD0944-BLK1)** | | | | Prepared: 04/15/24 00:00 Analyzed: 04/15/24 10:55 | | | | | | |
| 2-Butanone (MEK) | <10.0 | 10.0 | ug/L | | | | | | | |
| Bromochloromethane | <1.0 | 1.0 | ug/L | | | | | | | |
| Bromochloromethane | <1.0 | 1.0 | ug/L | | | | | | | |
| Chloroform | <1.0 | 1.0 | ug/L | | | | | | | |
| Chloroform | <1.0 | 1.0 | ug/L | | | | | | | |
| 1,1,1-Trichloroethane | <1.0 | 1.0 | ug/L | | | | | | | |
| 1,1,1-Trichloroethane | <1.0 | 1.0 | ug/L | | | | | | | |
| 1,1-Dichloropropene | <1.0 | 1.0 | ug/L | | | | | | | |
| Carbon Tetrachloride | <1.0 | 1.0 | ug/L | | | | | | | |
| Carbon Tetrachloride | <1.0 | 1.0 | ug/L | | | | | | | |
| Benzene | <1.0 | 1.0 | ug/L | | | | | | | |
| Benzene | <1.0 | 1.0 | ug/L | | | | | | | |
| 1,2-Dichloroethane | <1.0 | 1.0 | ug/L | | | | | | | |
| 1,2-Dichloroethane | <1.0 | 1.0 | ug/L | | | | | | | |
| Trichloroethylene | <1.0 | 1.0 | ug/L | | | | | | | |
| Trichloroethylene | <1.0 | 1.0 | ug/L | | | | | | | |
| 1,2-Dichloropropane | <1.0 | 1.0 | ug/L | | | | | | | |
| 1,2-Dichloropropane | <1.0 | 1.0 | ug/L | | | | | | | |
| Dibromomethane | <1.0 | 1.0 | ug/L | | | | | | | |
| Dibromomethane | <1.0 | 1.0 | ug/L | | | | | | | |
| Bromodichloromethane | <1.0 | 1.0 | ug/L | | | | | | | |
| Bromodichloromethane | <1.0 | 1.0 | ug/L | | | | | | | |
| cis-1,3-Dichloropropene | <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 | | | | | | | |
| 4-Methyl-2-pentanone (MIBK) | <5.0 | 5.0 | ug/L | | | | | | | |
| Toluene | <1.0 | 1.0 | ug/L | | | | | | | |
| Toluene | <1.0 | 1.0 | ug/L | | | | | | | |
| trans-1,3-Dichloropropene | <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 | | | | | | | |
| 1,1,2-Trichloroethane | <1.0 | 1.0 | ug/L | | | | | | | |
| Tetrachloroethylene | <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 | | | | | | | |
| 2-Hexanone (MBK) | <5.0 | 5.0 | ug/L | | | | | | | |
| Dibromochloromethane | <1.0 | 1.0 | ug/L | | | | | | | |
| Dibromochloromethane | <1.0 | 1.0 | ug/L | | | | | | | |
| 1,2-Dibromoethane | <1.0 | 1.0 | ug/L | | | | | | | |
| 1,2-Dibromoethane | <1.0 | 1.0 | ug/L | | | | | | | |
| Chlorobenzene | <1.0 | 1.0 | ug/L | | | | | | | |

| Determination of Volatile Organic Compounds | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 1HD0944 - EPA 5030B - EPA 8260B** | | | | | | | | | | |
| **Blank (1HD0944-BLK1)** | | | Prepared: 04/15/24 00:00 Analyzed: 04/15/24 10:55 | | | | | | | |
| Chlorobenzene | <1.0 | 1.0 | ug/L | | | | | | | |
| 1,1,1,2-Tetrachloroethane | <1.0 | 1.0 | ug/L | | | | | | | |
| 1,1,1,2-Tetrachloroethane | <1.0 | 1.0 | ug/L | | | | | | | |
| Ethylbenzene | <1.0 | 1.0 | ug/L | | | | | | | |
| Ethylbenzene | <1.0 | 1.0 | ug/L | | | | | | | |
| Xylenes, total | <2.0 | 2.0 | ug/L | | | | | | | |
| Xylenes, total | <2.0 | 2.0 | ug/L | | | | | | | |
| Styrene | <1.0 | 1.0 | ug/L | | | | | | | |
| Styrene | <1.0 | 1.0 | ug/L | | | | | | | |
| Bromoform | <1.0 | 1.0 | ug/L | | | | | | | |
| Bromoform | <1.0 | 1.0 | ug/L | | | | | | | |
| 1,2,3-Trichloropropane | <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 | | | | | | | |
| trans-1,4-Dichloro-2-butene | <5.0 | 5.0 | ug/L | | | | | | | |
| 1,1,2,2-Tetrachloroethane | <1.0 | 1.0 | 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 | | | | | | | |
| 1,4-Dichlorobenzene | <1.0 | 1.0 | ug/L | | | | | | | |
| 1,2-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-Dibromo-3-chloropropane | <5.0 | 5.0 | ug/L | | | | | | | |
| 1,2,4-Trichlorobenzene | <1.0 | 1.0 | ug/L | | | | | | | |
| *Surrogate: Dibromofluoromethane* | *59.0* | | ug/L | *50.2* | | *118* | *80-126* | | | |
| *Surrogate: Dibromofluoromethane* | *59.0* | | ug/L | *50.2* | | *118* | *80-126* | | | |
| *Surrogate: Dibromofluoromethane* | *59.0* | | ug/L | *50.2* | | *118* | *75-136* | | | |
| *Surrogate: 1,2-Dichloroethane-d4* | *60.2* | | ug/L | *50.1* | | *120* | *63-138* | | | |
| *Surrogate: 1,2-Dichloroethane-d4* | *60.2* | | ug/L | *50.1* | | *120* | *63-138* | | | |
| *Surrogate: 1,2-Dichloroethane-d4* | *60.2* | | ug/L | *50.1* | | *120* | *63-138* | | | |
| *Surrogate: 1,2-Dichloroethane-d4* | *60.2* | | ug/L | *50.1* | | *120* | *61-142* | | | |
| *Surrogate: Toluene-d8* | *52.0* | | ug/L | *50.4* | | *103* | *87-116* | | | |
| *Surrogate: Toluene-d8* | *52.0* | | ug/L | *50.4* | | *103* | *87-116* | | | |
| *Surrogate: Toluene-d8* | *52.0* | | ug/L | *50.4* | | *103* | *87-116* | | | |
| *Surrogate: Toluene-d8* | *52.0* | | ug/L | *50.4* | | *103* | *82-121* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *51.0* | | ug/L | *50.1* | | *102* | *85-111* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *51.0* | | ug/L | *50.1* | | *102* | *85-111* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *51.0* | | ug/L | *50.1* | | *102* | *85-111* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *51.0* | | ug/L | *50.1* | | *102* | *80-116* | | | |
| **LCS (1HD0944-BS1)** | | | Prepared: 04/15/24 00:00 Analyzed: 04/15/24 09:35 | | | | | | | **QM-18** |
| Dichlorodifluoromethane | 40.19 | 1.0 | ug/L | 31.6 | | 127 | 44-139 | | | |
| Chloromethane | 43.47 | 1.0 | ug/L | 30.6 | | 142 | 56-152 | | | |
| Chloromethane | 43.47 | 1.0 | ug/L | 30.6 | | 142 | 63-155 | | | |

| Determination of Volatile Organic Compounds | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 1HD0944 - EPA 5030B - EPA 8260B** | | | | | | | | | | |
| **LCS (1HD0944-BS1)** | | | Prepared: 04/15/24 00:00 Analyzed: 04/15/24 09:35 | | | | | | | **QM-18** |
| Vinyl Chloride | 39.95 | 1.0 | ug/L | 30.2 | | 132 | 62-151 | | | |
| Vinyl Chloride | 39.95 | 1.0 | ug/L | 30.2 | | 132 | 70-154 | | | |
| Bromomethane | 37.62 | 1.0 | ug/L | 28.8 | | 131 | 61-162 | | | |
| Bromomethane | 37.62 | 1.0 | ug/L | 28.8 | | 131 | 52-176 | | | |
| Chloroethane | 42.75 | 1.0 | ug/L | 31.6 | | 135 | 69-138 | | | |
| Chloroethane | 42.75 | 1.0 | ug/L | 31.6 | | 135 | 72-148 | | | |
| Trichlorofluoromethane | 40.36 | 1.0 | ug/L | 32.6 | | 124 | 70-143 | | | |
| Trichlorofluoromethane | 40.36 | 1.0 | ug/L | 32.6 | | 124 | 70-152 | | | |
| Acrolein | 103.6 | 10.0 | ug/L | 100 | | 103 | 27-144 | | | |
| 1,1-Dichloroethylene | 62.35 | 1.0 | ug/L | 50.0 | | 125 | 76-140 | | | |
| 1,1-Dichloroethylene | 62.35 | 1.0 | ug/L | 50.0 | | 125 | 70-148 | | | |
| Acetone | 177.2 | 10.0 | ug/L | 102 | | 174 | 51-156 | | | QS-02 |
| Acetone | 177.2 | 10.0 | ug/L | 102 | | 174 | 43-172 | | | QS-02 |
| Methyl Iodide | 113.0 | 2.0 | ug/L | 99.7 | | 113 | 81-166 | | | |
| Methyl Iodide | 113.0 | 1.0 | ug/L | 99.7 | | 113 | 69-170 | | | |
| Carbon Disulfide | 112.9 | 1.0 | ug/L | 101 | | 112 | 76-147 | | | |
| Carbon Disulfide | 112.9 | 1.0 | ug/L | 101 | | 112 | 72-162 | | | |
| Acetonitrile | 118.6 | 10.0 | ug/L | 101 | | 118 | 46-156 | | | |
| Methylene Chloride | 55.13 | 5.0 | ug/L | 50.0 | | 110 | 67-139 | | | |
| Methylene Chloride | 55.13 | 5.0 | ug/L | 50.0 | | 110 | 68-142 | | | |
| Acrylonitrile | 121.2 | 5.0 | ug/L | 100 | | 121 | 67-144 | | | |
| Acrylonitrile | 121.2 | 5.0 | ug/L | 100 | | 121 | 67-144 | | | |
| trans-1,2-Dichloroethylene | 61.74 | 1.0 | ug/L | 50.0 | | 123 | 72-135 | | | |
| trans-1,2-Dichloroethylene | 61.74 | 1.0 | ug/L | 50.0 | | 123 | 66-148 | | | |
| 1,1-Dichloroethane | 60.70 | 1.0 | ug/L | 50.0 | | 121 | 72-129 | | | |
| 1,1-Dichloroethane | 60.70 | 1.0 | ug/L | 50.0 | | 121 | 66-143 | | | |
| Vinyl Acetate | 134.5 | 5.0 | ug/L | 102 | | 132 | 24-144 | | | |
| Vinyl Acetate | 134.5 | 5.0 | ug/L | 102 | | 132 | 43-153 | | | |
| 2,2-Dichloropropane | 57.88 | 1.0 | ug/L | 50.0 | | 116 | 64-131 | | | |
| cis-1,2-Dichloroethylene | 60.07 | 1.0 | ug/L | 50.0 | | 120 | 81-137 | | | |
| cis-1,2-Dichloroethylene | 60.07 | 1.0 | ug/L | 50.0 | | 120 | 71-149 | | | |
| 2-Butanone (MEK) | 157.9 | 5.0 | ug/L | 103 | | 153 | 47-149 | | | QS-02 |
| 2-Butanone (MEK) | 157.9 | 10.0 | ug/L | 103 | | 153 | 52-159 | | | |
| Bromochloromethane | 60.87 | 1.0 | ug/L | 50.0 | | 122 | 75-138 | | | |
| Bromochloromethane | 60.87 | 1.0 | ug/L | 50.0 | | 122 | 69-143 | | | |
| Chloroform | 58.04 | 1.0 | ug/L | 50.0 | | 116 | 78-131 | | | |
| Chloroform | 58.04 | 1.0 | ug/L | 50.0 | | 116 | 69-144 | | | |
| 1,1,1-Trichloroethane | 57.20 | 1.0 | ug/L | 50.0 | | 114 | 67-121 | | | |
| 1,1,1-Trichloroethane | 57.20 | 1.0 | ug/L | 50.0 | | 114 | 62-129 | | | |
| 1,1-Dichloropropene | 57.51 | 1.0 | ug/L | 50.0 | | 115 | 80-131 | | | |
| Carbon Tetrachloride | 57.93 | 1.0 | ug/L | 50.0 | | 116 | 71-131 | | | |
| Carbon Tetrachloride | 57.93 | 1.0 | ug/L | 50.0 | | 116 | 63-141 | | | |
| Benzene | 52.57 | 1.0 | ug/L | 50.0 | | 105 | 77-130 | | | |

| Determination of Volatile Organic Compounds | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 1HD0944 - EPA 5030B - EPA 8260B** | | | | | | | | | | |
| **LCS (1HD0944-BS1)** | | | Prepared: 04/15/24 00:00 Analyzed: 04/15/24 09:35 | | | | | | | **QM-18** |
| Benzene | 52.57 | 1.0 | ug/L | 50.0 | | 105 | 71-134 | | | |
| 1,2-Dichloroethane | 49.77 | 1.0 | ug/L | 50.0 | | 99.5 | 76-126 | | | |
| 1,2-Dichloroethane | 49.77 | 1.0 | ug/L | 50.0 | | 99.5 | 72-132 | | | |
| Trichloroethylene | 51.44 | 1.0 | ug/L | 50.0 | | 103 | 80-124 | | | |
| Trichloroethylene | 51.44 | 1.0 | ug/L | 50.0 | | 103 | 71-135 | | | |
| 1,2-Dichloropropane | 52.62 | 1.0 | ug/L | 50.0 | | 105 | 81-125 | | | |
| 1,2-Dichloropropane | 52.62 | 1.0 | ug/L | 50.0 | | 105 | 69-136 | | | |
| Dibromomethane | 52.31 | 1.0 | ug/L | 50.0 | | 105 | 84-134 | | | |
| Dibromomethane | 52.31 | 1.0 | ug/L | 50.0 | | 105 | 73-147 | | | |
| Bromodichloromethane | 50.73 | 1.0 | ug/L | 50.0 | | 101 | 78-121 | | | |
| Bromodichloromethane | 50.73 | 1.0 | ug/L | 50.0 | | 101 | 68-129 | | | |
| cis-1,3-Dichloropropene | 51.12 | 1.0 | ug/L | 50.0 | | 102 | 78-120 | | | |
| cis-1,3-Dichloropropene | 51.12 | 1.0 | ug/L | 50.0 | | 102 | 65-134 | | | |
| 4-Methyl-2-pentanone (MIBK) | 115.8 | 5.0 | ug/L | 101 | | 114 | 67-143 | | | |
| 4-Methyl-2-pentanone (MIBK) | 115.8 | 5.0 | ug/L | 101 | | 114 | 58-147 | | | |
| Toluene | 51.92 | 1.0 | ug/L | 50.0 | | 104 | 77-130 | | | |
| Toluene | 51.92 | 1.0 | ug/L | 50.0 | | 104 | 72-133 | | | |
| trans-1,3-Dichloropropene | 52.17 | 1.0 | ug/L | 50.0 | | 104 | 77-123 | | | |
| trans-1,3-Dichloropropene | 52.17 | 1.0 | ug/L | 50.0 | | 104 | 67-130 | | | |
| Ethyl Methacrylate | 108.9 | 10.0 | ug/L | 101 | | 108 | 52-148 | | | |
| 1,1,2-Trichloroethane | 51.49 | 1.0 | ug/L | 50.0 | | 103 | 78-124 | | | |
| 1,1,2-Trichloroethane | 51.49 | 1.0 | ug/L | 50.0 | | 103 | 69-135 | | | |
| Tetrachloroethylene | 48.53 | 1.0 | ug/L | 50.0 | | 97.1 | 73-124 | | | |
| Tetrachloroethylene | 48.53 | 1.0 | ug/L | 50.0 | | 97.1 | 69-130 | | | |
| 1,3-Dichloropropane | 55.03 | 1.0 | ug/L | 50.0 | | 110 | 78-131 | | | |
| 2-Hexanone (MBK) | 122.2 | 5.0 | ug/L | 103 | | 118 | 57-145 | | | |
| 2-Hexanone (MBK) | 122.2 | 5.0 | ug/L | 103 | | 118 | 55-144 | | | |
| Dibromochloromethane | 47.64 | 1.0 | ug/L | 50.0 | | 95.3 | 78-126 | | | |
| Dibromochloromethane | 47.64 | 1.0 | ug/L | 50.0 | | 95.3 | 73-127 | | | |
| 1,2-Dibromoethane | 47.72 | 1.0 | ug/L | 50.0 | | 95.4 | 69-126 | | | |
| 1,2-Dibromoethane | 47.72 | 1.0 | ug/L | 50.0 | | 95.4 | 67-132 | | | |
| Chlorobenzene | 48.26 | 1.0 | ug/L | 50.0 | | 96.5 | 76-120 | | | |
| Chlorobenzene | 48.26 | 1.0 | ug/L | 50.0 | | 96.5 | 72-123 | | | |
| 1,1,1,2-Tetrachloroethane | 48.71 | 1.0 | ug/L | 50.0 | | 97.4 | 81-122 | | | |
| 1,1,1,2-Tetrachloroethane | 48.71 | 1.0 | ug/L | 50.0 | | 97.4 | 73-127 | | | |
| Ethylbenzene | 49.70 | 1.0 | ug/L | 50.0 | | 99.4 | 74-121 | | | |
| Ethylbenzene | 49.70 | 1.0 | ug/L | 50.0 | | 99.4 | 71-127 | | | |
| Xylenes, total | 148.9 | 2.0 | ug/L | 150 | | 99.3 | 75-122 | | | |
| Xylenes, total | 148.9 | 2.0 | ug/L | 150 | | 99.3 | 74-127 | | | |
| Styrene | 49.00 | 1.0 | ug/L | 50.0 | | 98.0 | 76-119 | | | |
| Styrene | 49.00 | 1.0 | ug/L | 50.0 | | 98.0 | 66-126 | | | |
| Bromoform | 46.62 | 1.0 | ug/L | 50.0 | | 93.2 | 74-127 | | | |
| Bromoform | 46.62 | 1.0 | ug/L | 50.0 | | 93.2 | 68-130 | | | |

| Determination of Volatile Organic Compounds | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 1HD0944 - EPA 5030B - EPA 8260B** | | | | | | | | | | |
| **LCS (1HD0944-BS1)** | | | Prepared: 04/15/24 00:00 Analyzed: 04/15/24 09:35 | | | | | | | **QM-18** |
| 1,2,3-Trichloropropane | 51.06 | 1.0 | ug/L | 50.0 | | 102 | 73-125 | | | |
| 1,2,3-Trichloropropane | 51.06 | 1.0 | ug/L | 50.0 | | 102 | 63-136 | | | |
| trans-1,4-Dichloro-2-butene | 95.01 | 5.0 | ug/L | 104 | | 91.4 | 55-135 | | | |
| trans-1,4-Dichloro-2-butene | 95.01 | 5.0 | ug/L | 104 | | 91.4 | 54-134 | | | |
| 1,1,2,2-Tetrachloroethane | 52.47 | 1.0 | ug/L | 50.0 | | 105 | 58-133 | | | |
| 1,1,2,2-Tetrachloroethane | 52.47 | 1.0 | ug/L | 50.0 | | 105 | 61-131 | | | |
| 1,3-Dichlorobenzene | 49.93 | 1.0 | ug/L | 50.0 | | 99.9 | 70-125 | | | |
| 1,4-Dichlorobenzene | 48.14 | 1.0 | ug/L | 50.0 | | 96.3 | 69-128 | | | |
| 1,4-Dichlorobenzene | 48.14 | 1.0 | ug/L | 50.0 | | 96.3 | 70-129 | | | |
| 1,2-Dichlorobenzene | 50.33 | 1.0 | ug/L | 50.0 | | 101 | 70-125 | | | |
| 1,2-Dichlorobenzene | 50.33 | 1.0 | ug/L | 50.0 | | 101 | 69-126 | | | |
| 1,2-Dibromo-3-chloropropane | 51.40 | 1.0 | ug/L | 50.0 | | 103 | 54-147 | | | |
| 1,2-Dibromo-3-chloropropane | 51.40 | 5.0 | ug/L | 50.0 | | 103 | 50-143 | | | |
| 1,2,4-Trichlorobenzene | 52.73 | 1.0 | ug/L | 50.0 | | 105 | 55-149 | | | |
| *Surrogate: Dibromofluoromethane* | *58.8* | | ug/L | *50.2* | | *117* | *80-126* | | | |
| *Surrogate: Dibromofluoromethane* | *58.8* | | ug/L | *50.2* | | *117* | *80-126* | | | |
| *Surrogate: Dibromofluoromethane* | *58.8* | | ug/L | *50.2* | | *117* | *75-136* | | | |
| *Surrogate: 1,2-Dichloroethane-d4* | *59.1* | | ug/L | *50.1* | | *118* | *63-138* | | | |
| *Surrogate: 1,2-Dichloroethane-d4* | *59.1* | | ug/L | *50.1* | | *118* | *63-138* | | | |
| *Surrogate: 1,2-Dichloroethane-d4* | *59.1* | | ug/L | *50.1* | | *118* | *63-138* | | | |
| *Surrogate: 1,2-Dichloroethane-d4* | *59.1* | | ug/L | *50.1* | | *118* | *61-142* | | | |
| *Surrogate: Toluene-d8* | *53.7* | | ug/L | *50.4* | | *107* | *87-116* | | | |
| *Surrogate: Toluene-d8* | *53.7* | | ug/L | *50.4* | | *107* | *87-116* | | | |
| *Surrogate: Toluene-d8* | *53.7* | | ug/L | *50.4* | | *107* | *87-116* | | | |
| *Surrogate: Toluene-d8* | *53.7* | | ug/L | *50.4* | | *107* | *82-121* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *50.0* | | ug/L | *50.1* | | *99.7* | *85-111* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *50.0* | | ug/L | *50.1* | | *99.7* | *85-111* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *50.0* | | ug/L | *50.1* | | *99.7* | *85-111* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *50.0* | | ug/L | *50.1* | | *99.7* | *80-116* | | | |
| **LCS Dup (1HD0944-BSD1)** | | | Prepared: 04/15/24 00:00 Analyzed: 04/15/24 10:01 | | | | | | | |
| Dichlorodifluoromethane | 36.15 | 1.0 | ug/L | 31.6 | | 114 | 44-139 | 10.6 | 30 | |
| Chloromethane | 39.72 | 1.0 | ug/L | 30.6 | | 130 | 56-152 | 9.02 | 30 | |
| Chloromethane | 39.72 | 1.0 | ug/L | 30.6 | | 130 | 63-155 | 9.02 | 24 | QM-18 |
| Vinyl Chloride | 36.19 | 1.0 | ug/L | 30.2 | | 120 | 62-151 | 9.88 | 28 | |
| Vinyl Chloride | 36.19 | 1.0 | ug/L | 30.2 | | 120 | 70-154 | 9.88 | 25 | QM-18 |
| Bromomethane | 36.05 | 1.0 | ug/L | 28.8 | | 125 | 61-162 | 4.26 | 28 | |
| Bromomethane | 36.05 | 1.0 | ug/L | 28.8 | | 125 | 52-176 | 4.26 | 27 | QM-18 |
| Chloroethane | 39.82 | 1.0 | ug/L | 31.6 | | 126 | 69-138 | 7.10 | 29 | |
| Chloroethane | 39.82 | 1.0 | ug/L | 31.6 | | 126 | 72-148 | 7.10 | 25 | QM-18 |
| Trichlorofluoromethane | 37.30 | 1.0 | ug/L | 32.6 | | 114 | 70-143 | 7.88 | 27 | |
| Trichlorofluoromethane | 37.30 | 1.0 | ug/L | 32.6 | | 114 | 70-152 | 7.88 | 26 | QM-18 |
| Acrolein | 100.8 | 10.0 | ug/L | 100 | | 101 | 27-144 | 2.73 | 30 | |
| 1,1-Dichloroethylene | 58.03 | 1.0 | ug/L | 50.0 | | 116 | 76-140 | 7.18 | 30 | |
| 1,1-Dichloroethylene | 58.03 | 1.0 | ug/L | 50.0 | | 116 | 70-148 | 7.18 | 24 | QM-18 |

| Determination of Volatile Organic Compounds | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 1HD0944 - EPA 5030B - EPA 8260B** | | | | | | | | | | |
| **LCS Dup (1HD0944-BSD1)** | | | Prepared: 04/15/24 00:00 Analyzed: 04/15/24 10:01 | | | | | | | |
| Acetone | 159.3 | 10.0 | ug/L | 102 | | 156 | 51-156 | 10.7 | 30 | |
| Acetone | 159.3 | 10.0 | ug/L | 102 | | 156 | 43-172 | 10.7 | 30 | QM-18 |
| Methyl Iodide | 107.8 | 2.0 | ug/L | 99.7 | | 108 | 81-166 | 4.78 | 29 | |
| Methyl Iodide | 107.8 | 1.0 | ug/L | 99.7 | | 108 | 69-170 | 4.78 | 30 | QM-18 |
| Carbon Disulfide | 105.6 | 1.0 | ug/L | 101 | | 105 | 76-147 | 6.75 | 27 | |
| Carbon Disulfide | 105.6 | 1.0 | ug/L | 101 | | 105 | 72-162 | 6.75 | 24 | QM-18 |
| Acetonitrile | 115.0 | 10.0 | ug/L | 101 | | 114 | 46-156 | 3.14 | 30 | |
| Methylene Chloride | 54.25 | 5.0 | ug/L | 50.0 | | 108 | 67-139 | 1.61 | 26 | |
| Methylene Chloride | 54.25 | 5.0 | ug/L | 50.0 | | 108 | 68-142 | 1.61 | 21 | QM-18 |
| Acrylonitrile | 119.0 | 5.0 | ug/L | 100 | | 119 | 67-144 | 1.82 | 24 | QM-18 |
| Acrylonitrile | 119.0 | 5.0 | ug/L | 100 | | 119 | 67-144 | 1.82 | 24 | |
| trans-1,2-Dichloroethylene | 58.08 | 1.0 | ug/L | 50.0 | | 116 | 72-135 | 6.11 | 28 | |
| trans-1,2-Dichloroethylene | 58.08 | 1.0 | ug/L | 50.0 | | 116 | 66-148 | 6.11 | 27 | QM-18 |
| 1,1-Dichloroethane | 57.81 | 1.0 | ug/L | 50.0 | | 116 | 72-129 | 4.88 | 26 | |
| 1,1-Dichloroethane | 57.81 | 1.0 | ug/L | 50.0 | | 116 | 66-143 | 4.88 | 24 | QM-18 |
| Vinyl Acetate | 144.0 | 5.0 | ug/L | 102 | | 141 | 24-144 | 6.81 | 30 | |
| Vinyl Acetate | 144.0 | 5.0 | ug/L | 102 | | 141 | 43-153 | 6.81 | 30 | QM-18 |
| 2,2-Dichloropropane | 54.17 | 1.0 | ug/L | 50.0 | | 108 | 64-131 | 6.62 | 26 | |
| cis-1,2-Dichloroethylene | 59.52 | 1.0 | ug/L | 50.0 | | 119 | 81-137 | 0.920 | 27 | |
| cis-1,2-Dichloroethylene | 59.52 | 1.0 | ug/L | 50.0 | | 119 | 71-149 | 0.920 | 26 | QM-18 |
| 2-Butanone (MEK) | 150.0 | 5.0 | ug/L | 103 | | 145 | 47-149 | 5.14 | 30 | |
| 2-Butanone (MEK) | 150.0 | 10.0 | ug/L | 103 | | 145 | 52-159 | 5.14 | 27 | QM-18 |
| Bromochloromethane | 59.05 | 1.0 | ug/L | 50.0 | | 118 | 75-138 | 3.04 | 24 | |
| Bromochloromethane | 59.05 | 1.0 | ug/L | 50.0 | | 118 | 69-143 | 3.04 | 23 | QM-18 |
| Chloroform | 56.00 | 1.0 | ug/L | 50.0 | | 112 | 78-131 | 3.58 | 27 | |
| Chloroform | 56.00 | 1.0 | ug/L | 50.0 | | 112 | 69-144 | 3.58 | 23 | QM-18 |
| 1,1,1-Trichloroethane | 54.20 | 1.0 | ug/L | 50.0 | | 108 | 67-121 | 5.39 | 28 | |
| 1,1,1-Trichloroethane | 54.20 | 1.0 | ug/L | 50.0 | | 108 | 62-129 | 5.39 | 24 | QM-18 |
| 1,1-Dichloropropene | 54.07 | 1.0 | ug/L | 50.0 | | 108 | 80-131 | 6.17 | 30 | |
| Carbon Tetrachloride | 54.42 | 1.0 | ug/L | 50.0 | | 109 | 71-131 | 6.25 | 28 | |
| Carbon Tetrachloride | 54.42 | 1.0 | ug/L | 50.0 | | 109 | 63-141 | 6.25 | 25 | QM-18 |
| Benzene | 50.18 | 1.0 | ug/L | 50.0 | | 100 | 77-130 | 4.65 | 25 | |
| Benzene | 50.18 | 1.0 | ug/L | 50.0 | | 100 | 71-134 | 4.65 | 24 | QM-18 |
| 1,2-Dichloroethane | 49.25 | 1.0 | ug/L | 50.0 | | 98.5 | 76-126 | 1.05 | 24 | |
| 1,2-Dichloroethane | 49.25 | 1.0 | ug/L | 50.0 | | 98.5 | 72-132 | 1.05 | 24 | QM-18 |
| Trichloroethylene | 48.68 | 1.0 | ug/L | 50.0 | | 97.4 | 80-124 | 5.51 | 27 | |
| Trichloroethylene | 48.68 | 1.0 | ug/L | 50.0 | | 97.4 | 71-135 | 5.51 | 24 | QM-18 |
| 1,2-Dichloropropane | 50.98 | 1.0 | ug/L | 50.0 | | 102 | 81-125 | 3.17 | 25 | |
| 1,2-Dichloropropane | 50.98 | 1.0 | ug/L | 50.0 | | 102 | 69-136 | 3.17 | 24 | QM-18 |
| Dibromomethane | 51.82 | 1.0 | ug/L | 50.0 | | 104 | 84-134 | 0.941 | 23 | |
| Dibromomethane | 51.82 | 1.0 | ug/L | 50.0 | | 104 | 73-147 | 0.941 | 25 | QM-18 |
| Bromodichloromethane | 49.59 | 1.0 | ug/L | 50.0 | | 99.2 | 78-121 | 2.27 | 25 | |
| Bromodichloromethane | 49.59 | 1.0 | ug/L | 50.0 | | 99.2 | 68-129 | 2.27 | 22 | QM-18 |

| Determination of Volatile Organic Compounds | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 1HD0944 - EPA 5030B - EPA 8260B** | | | | | | | | | | |
| **LCS Dup (1HD0944-BSD1)** | | | Prepared: 04/15/24 00:00 Analyzed: 04/15/24 10:01 | | | | | | | |
| cis-1,3-Dichloropropene | 49.99 | 1.0 | ug/L | 50.0 | | 100 | 78-120 | 2.24 | 26 | |
| cis-1,3-Dichloropropene | 49.99 | 1.0 | ug/L | 50.0 | | 100 | 65-134 | 2.24 | 23 | QM-18 |
| 4-Methyl-2-pentanone (MIBK) | 115.2 | 5.0 | ug/L | 101 | | 114 | 67-143 | 0.554 | 26 | |
| 4-Methyl-2-pentanone (MIBK) | 115.2 | 5.0 | ug/L | 101 | | 114 | 58-147 | 0.554 | 27 | QM-18 |
| Toluene | 49.70 | 1.0 | ug/L | 50.0 | | 99.4 | 77-130 | 4.37 | 27 | |
| Toluene | 49.70 | 1.0 | ug/L | 50.0 | | 99.4 | 72-133 | 4.37 | 24 | QM-18 |
| trans-1,3-Dichloropropene | 51.25 | 1.0 | ug/L | 50.0 | | 102 | 77-123 | 1.78 | 28 | |
| trans-1,3-Dichloropropene | 51.25 | 1.0 | ug/L | 50.0 | | 102 | 67-130 | 1.78 | 24 | QM-18 |
| Ethyl Methacrylate | 107.3 | 10.0 | ug/L | 101 | | 107 | 52-148 | 1.46 | 30 | |
| 1,1,2-Trichloroethane | 51.30 | 1.0 | ug/L | 50.0 | | 103 | 78-124 | 0.370 | 24 | |
| 1,1,2-Trichloroethane | 51.30 | 1.0 | ug/L | 50.0 | | 103 | 69-135 | 0.370 | 23 | QM-18 |
| Tetrachloroethylene | 46.56 | 1.0 | ug/L | 50.0 | | 93.1 | 73-124 | 4.14 | 26 | |
| Tetrachloroethylene | 46.56 | 1.0 | ug/L | 50.0 | | 93.1 | 69-130 | 4.14 | 25 | QM-18 |
| 1,3-Dichloropropane | 54.92 | 1.0 | ug/L | 50.0 | | 110 | 78-131 | 0.200 | 24 | |
| 2-Hexanone (MBK) | 118.9 | 5.0 | ug/L | 103 | | 115 | 57-145 | 2.74 | 30 | |
| 2-Hexanone (MBK) | 118.9 | 5.0 | ug/L | 103 | | 115 | 55-144 | 2.74 | 25 | QM-18 |
| Dibromochloromethane | 47.05 | 1.0 | ug/L | 50.0 | | 94.1 | 78-126 | 1.25 | 23 | |
| Dibromochloromethane | 47.05 | 1.0 | ug/L | 50.0 | | 94.1 | 73-127 | 1.25 | 22 | QM-18 |
| 1,2-Dibromoethane | 47.78 | 1.0 | ug/L | 50.0 | | 95.6 | 69-126 | 0.126 | 22 | |
| 1,2-Dibromoethane | 47.78 | 1.0 | ug/L | 50.0 | | 95.6 | 67-132 | 0.126 | 24 | QM-18 |
| Chlorobenzene | 47.14 | 1.0 | ug/L | 50.0 | | 94.3 | 76-120 | 2.35 | 25 | |
| Chlorobenzene | 47.14 | 1.0 | ug/L | 50.0 | | 94.3 | 72-123 | 2.35 | 23 | QM-18 |
| 1,1,1,2-Tetrachloroethane | 47.80 | 1.0 | ug/L | 50.0 | | 95.6 | 81-122 | 1.89 | 23 | |
| 1,1,1,2-Tetrachloroethane | 47.80 | 1.0 | ug/L | 50.0 | | 95.6 | 73-127 | 1.89 | 24 | QM-18 |
| Ethylbenzene | 48.20 | 1.0 | ug/L | 50.0 | | 96.4 | 74-121 | 3.06 | 27 | |
| Ethylbenzene | 48.20 | 1.0 | ug/L | 50.0 | | 96.4 | 71-127 | 3.06 | 26 | QM-18 |
| Xylenes, total | 143.8 | 2.0 | ug/L | 150 | | 95.8 | 75-122 | 3.55 | 26 | |
| Xylenes, total | 143.8 | 2.0 | ug/L | 150 | | 95.8 | 74-127 | 3.55 | 25 | QM-18 |
| Styrene | 48.10 | 1.0 | ug/L | 50.0 | | 96.2 | 76-119 | 1.85 | 26 | |
| Styrene | 48.10 | 1.0 | ug/L | 50.0 | | 96.2 | 66-126 | 1.85 | 23 | QM-18 |
| Bromoform | 46.20 | 1.0 | ug/L | 50.0 | | 92.4 | 74-127 | 0.905 | 22 | |
| Bromoform | 46.20 | 1.0 | ug/L | 50.0 | | 92.4 | 68-130 | 0.905 | 23 | QM-18 |
| 1,2,3-Trichloropropane | 50.56 | 1.0 | ug/L | 50.0 | | 101 | 73-125 | 0.984 | 20 | |
| 1,2,3-Trichloropropane | 50.56 | 1.0 | ug/L | 50.0 | | 101 | 63-136 | 0.984 | 24 | QM-18 |
| trans-1,4-Dichloro-2-butene | 94.42 | 5.0 | ug/L | 104 | | 90.9 | 55-135 | 0.623 | 26 | |
| trans-1,4-Dichloro-2-butene | 94.42 | 5.0 | ug/L | 104 | | 90.9 | 54-134 | 0.623 | 27 | QM-18 |
| 1,1,2,2-Tetrachloroethane | 51.72 | 1.0 | ug/L | 50.0 | | 103 | 58-133 | 1.44 | 28 | |
| 1,1,2,2-Tetrachloroethane | 51.72 | 1.0 | ug/L | 50.0 | | 103 | 61-131 | 1.44 | 29 | QM-18 |
| 1,3-Dichlorobenzene | 48.62 | 1.0 | ug/L | 50.0 | | 97.3 | 70-125 | 2.66 | 27 | |
| 1,4-Dichlorobenzene | 47.39 | 1.0 | ug/L | 50.0 | | 94.8 | 69-128 | 1.57 | 29 | |
| 1,4-Dichlorobenzene | 47.39 | 1.0 | ug/L | 50.0 | | 94.8 | 70-129 | 1.57 | 24 | QM-18 |
| 1,2-Dichlorobenzene | 49.19 | 1.0 | ug/L | 50.0 | | 98.4 | 70-125 | 2.29 | 25 | |
| 1,2-Dichlorobenzene | 49.19 | 1.0 | ug/L | 50.0 | | 98.4 | 69-126 | 2.29 | 26 | QM-18 |

| Determination of Volatile Organic Compounds | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 1HD0944 - EPA 5030B - EPA 8260B** | | | | | | | | | | |
| **LCS Dup (1HD0944-BSD1)** | | | Prepared: 04/15/24 00:00 Analyzed: 04/15/24 10:01 | | | | | | | |
| 1,2-Dibromo-3-chloropropane | 51.64 | 1.0 | ug/L | 50.0 | | 103 | 54-147 | 0.466 | 29 | |
| 1,2-Dibromo-3-chloropropane | 51.64 | 5.0 | ug/L | 50.0 | | 103 | 50-143 | 0.466 | 30 | QM-18 |
| 1,2,4-Trichlorobenzene | 51.41 | 1.0 | ug/L | 50.0 | | 103 | 55-149 | 2.54 | 30 | |
| *Surrogate: Dibromofluoromethane* | *58.4* | | ug/L | *50.2* | | *116* | *80-126* | | | |
| *Surrogate: Dibromofluoromethane* | *58.4* | | ug/L | *50.2* | | *116* | *80-126* | | | *QM-18* |
| *Surrogate: Dibromofluoromethane* | *58.4* | | ug/L | *50.2* | | *116* | *75-136* | | | *QM-18* |
| *Surrogate: 1,2-Dichloroethane-d4* | *58.5* | | ug/L | *50.1* | | *117* | *63-138* | | | |
| *Surrogate: 1,2-Dichloroethane-d4* | *58.5* | | ug/L | *50.1* | | *117* | *63-138* | | | *QM-18* |
| *Surrogate: 1,2-Dichloroethane-d4* | *58.5* | | ug/L | *50.1* | | *117* | *63-138* | | | |
| *Surrogate: 1,2-Dichloroethane-d4* | *58.5* | | ug/L | *50.1* | | *117* | *61-142* | | | *QM-18* |
| *Surrogate: Toluene-d8* | *53.0* | | ug/L | *50.4* | | *105* | *87-116* | | | |
| *Surrogate: Toluene-d8* | *53.0* | | ug/L | *50.4* | | *105* | *87-116* | | | *QM-18* |
| *Surrogate: Toluene-d8* | *53.0* | | ug/L | *50.4* | | *105* | *87-116* | | | |
| *Surrogate: Toluene-d8* | *53.0* | | ug/L | *50.4* | | *105* | *82-121* | | | *QM-18* |
| *Surrogate: 4-Bromofluorobenzene* | *49.8* | | ug/L | *50.1* | | *99.2* | *85-111* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *49.8* | | ug/L | *50.1* | | *99.2* | *85-111* | | | *QM-18* |
| *Surrogate: 4-Bromofluorobenzene* | *49.8* | | ug/L | *50.1* | | *99.2* | *85-111* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *49.8* | | ug/L | *50.1* | | *99.2* | *80-116* | | | *QM-18* |
| **Batch 1HD1128 - EPA 5030B - EPA 8260B** | | | | | | | | | | |
| **Blank (1HD1128-BLK1)** | | | Prepared: 04/17/24 00:00 Analyzed: 04/17/24 10:52 | | | | | | | |
| 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* | *50.8* | | ug/L | *50.2* | | *101* | *80-126* | | | |
| *Surrogate: 1,2-Dichloroethane-d4* | *52.2* | | ug/L | *50.1* | | *104* | *63-138* | | | |
| *Surrogate: Toluene-d8* | *49.8* | | ug/L | *50.4* | | *98.9* | *87-116* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *50.1* | | ug/L | *50.1* | | *100* | *85-111* | | | |
| **LCS (1HD1128-BS1)** | | | Prepared: 04/17/24 00:00 Analyzed: 04/17/24 09:43 | | | | | | | |
| Allyl chloride | 32.69 | 1.0 | ug/L | 35.7 | | 91.5 | 76-134 | | | |
| Chloroprene | 57.08 | 1.0 | ug/L | 50.0 | | 114 | 74-141 | | | |
| Methacrylonitrile | 65.34 | 1.0 | ug/L | 64.3 | | 102 | 73-143 | | | |
| Methyl Methacrylate | 58.27 | 1.0 | ug/L | 57.3 | | 102 | 72-123 | | | |
| Propionitrile | 83.18 | 10.0 | ug/L | 50.0 | | 166 | 50-151 | | | QS-02 |
| *Surrogate: Dibromofluoromethane* | *51.6* | | ug/L | *50.2* | | *103* | *80-126* | | | |
| *Surrogate: 1,2-Dichloroethane-d4* | *51.4* | | ug/L | *50.1* | | *103* | *63-138* | | | |
| *Surrogate: Toluene-d8* | *50.5* | | ug/L | *50.4* | | *100* | *87-116* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *50.5* | | ug/L | *50.1* | | *101* | *85-111* | | | |
| **LCS Dup (1HD1128-BSD1)** | | | Prepared: 04/17/24 00:00 Analyzed: 04/17/24 10:06 | | | | | | | |
| Allyl chloride | 32.20 | 1.0 | ug/L | 35.7 | | 90.1 | 76-134 | 1.51 | 30 | |

| Determination of Volatile Organic Compounds | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 1HD1128 - EPA 5030B - EPA 8260B** | | | | | | | | | | |
| **LCS Dup (1HD1128-BSD1)** | | | Prepared: 04/17/24 00:00 Analyzed: 04/17/24 10:06 | | | | | | | |
| Chloroprene | 55.85 | 1.0 | ug/L | 50.0 | | 112 | 74-141 | 2.18 | 30 | |
| Methacrylonitrile | 65.46 | 1.0 | ug/L | 64.3 | | 102 | 73-143 | 0.183 | 30 | |
| Methyl Methacrylate | 59.32 | 1.0 | ug/L | 57.3 | | 103 | 72-123 | 1.79 | 30 | |
| Propionitrile | 84.20 | 10.0 | ug/L | 50.0 | | 168 | 50-151 | 1.22 | 30 | QS-02 |
| *Surrogate: Dibromofluoromethane* | *51.5* | | ug/L | *50.2* | | *103* | *80-126* | | | |
| *Surrogate: 1,2-Dichloroethane-d4* | *51.7* | | ug/L | *50.1* | | *103* | *63-138* | | | |
| *Surrogate: Toluene-d8* | *50.5* | | ug/L | *50.4* | | *100* | *87-116* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *50.4* | | ug/L | *50.1* | | *100* | *85-111* | | | |
| **Matrix Spike (1HD1128-MS1)** | **Source: 1HD0953-07** | | Prepared: 04/17/24 00:00 Analyzed: 04/17/24 20:16 | | | | | | | |
| Allyl chloride | 289.7 | 10.0 | ug/L | 357 | ND | 81.1 | 60-140 | | | |
| Chloroprene | 514.1 | 10.0 | ug/L | 500 | ND | 103 | 60-140 | | | |
| Methacrylonitrile | 585.4 | 10.0 | ug/L | 643 | ND | 91.1 | 60-140 | | | |
| Methyl Methacrylate | 554.8 | 10.0 | ug/L | 573 | ND | 96.8 | 60-140 | | | |
| Propionitrile | 783.3 | 100 | ug/L | 500 | ND | 157 | 60-140 | | | QS-02 |
| *Surrogate: Dibromofluoromethane* | *477* | | ug/L | *502* | | *95.1* | *80-126* | | | |
| *Surrogate: 1,2-Dichloroethane-d4* | *484* | | ug/L | *501* | | *96.7* | *63-138* | | | |
| *Surrogate: Toluene-d8* | *503* | | ug/L | *504* | | *99.8* | *87-116* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *497* | | ug/L | *501* | | *99.2* | *85-111* | | | |
| **Matrix Spike Dup (1HD1128-MSD1)** | **Source: 1HD0953-07** | | Prepared: 04/17/24 00:00 Analyzed: 04/17/24 20:39 | | | | | | | |
| Allyl chloride | 285.6 | 10.0 | ug/L | 357 | ND | 79.9 | 60-140 | 1.43 | 30 | |
| Chloroprene | 502.1 | 10.0 | ug/L | 500 | ND | 100 | 60-140 | 2.36 | 30 | |
| Methacrylonitrile | 581.1 | 10.0 | ug/L | 643 | ND | 90.4 | 60-140 | 0.737 | 30 | |
| Methyl Methacrylate | 562.0 | 10.0 | ug/L | 573 | ND | 98.0 | 60-140 | 1.29 | 30 | |
| Propionitrile | 752.2 | 100 | ug/L | 500 | ND | 150 | 60-140 | 4.05 | 30 | QS-02 |
| *Surrogate: Dibromofluoromethane* | *476* | | ug/L | *502* | | *94.9* | *80-126* | | | |
| *Surrogate: 1,2-Dichloroethane-d4* | *482* | | ug/L | *501* | | *96.3* | *63-138* | | | |
| *Surrogate: Toluene-d8* | *495* | | ug/L | *504* | | *98.2* | *87-116* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *504* | | ug/L | *501* | | *100* | *85-111* | | | |

| Determination of General Solvents | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 1HD0875 - Semi-Vol GC - EPA 8015C** | | | | | | | | | | |
| **Blank (1HD0875-BLK1)** | | | Prepared: 04/15/24 08:30 Analyzed: 04/15/24 16:51 | | | | | | | |
| Isobutanol | <1.0 | 1.0 | mg/L | | | | | | | |
| **LCS (1HD0875-BS1)** | | | Prepared: 04/15/24 08:30 Analyzed: 04/15/24 14:19 | | | | | | | |
| Isobutanol | 27.31 | 1.0 | mg/L | 26.0 | | 105 | 40-135 | | | |
| **Matrix Spike (1HD0875-MS1)** | **Source: 1HD0193-01** | | Prepared: 04/15/24 08:30 Analyzed: 04/15/24 22:12 | | | | | | | |
| Isobutanol | 27.26 | 1.0 | mg/L | 26.0 | ND | 105 | 63-135 | | | |
| **Matrix Spike Dup (1HD0875-MSD1)** | **Source: 1HD0193-01** | | Prepared: 04/15/24 08:30 Analyzed: 04/15/24 22:43 | | | | | | | |

| Determination of General Solvents | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 1HD0875 - Semi-Vol GC - EPA 8015C** | | | | | | | | | | |
| **Matrix Spike Dup (1HD0875-MSD1)** | **Source: 1HD0193-01** | | Prepared: 04/15/24 08:30 Analyzed: 04/15/24 22:43 | | | | | | | |
| Isobutanol | 26.89 | 1.0 | mg/L | 26.0 | ND | 103 | 63-135 | 1.35 | 30 | |

| Determination of Base/Neutral/Acid Extractable Compounds | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 1HD0906 - 3520C BNA Cont Liq - EPA 8270C** | | | | | | | | | | |
| **Blank (1HD0906-BLK1)** | | | Prepared: 04/15/24 13:45 Analyzed: 04/29/24 16:14 | | | | | | | |
| 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 | | | | | | | |
| 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 | | | | | | | |

| Determination of Base/Neutral/Acid Extractable Compounds | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 1HD0906 - 3520C BNA Cont Liq - EPA 8270C** | | | | | | | | | | |
| **Blank (1HD0906-BLK1)** | | | | Prepared: 04/15/24 13:45 Analyzed: 04/29/24 16:14 | | | | | | |
| 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 | | | | | | | |
| 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 | | | | | | | |

| Determination of Base/Neutral/Acid Extractable Compounds | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 1HD0906 - 3520C BNA Cont Liq - EPA 8270C** | | | | | | | | | | |
| **Blank (1HD0906-BLK1)** | | | | Prepared: 04/15/24 13:45 Analyzed: 04/29/24 16:14 | | | | | | |
| 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 | | | | | | | |
| 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* | *21.3* | | ug/L | *29.6* | | *72.0* | *24-136* | | | |
| *Surrogate: Phenol-d6* | *22.9* | | ug/L | *30.5* | | *75.2* | *15-140* | | | |
| *Surrogate: Nitrobenzene-d5* | *23.2* | | ug/L | *30.0* | | *77.3* | *29-130* | | | |
| *Surrogate: 2-Fluorobiphenyl* | *19.9* | | ug/L | *28.8* | | *69.0* | *23-113* | | | |
| *Surrogate: 2,4,6-Tribromophenol* | *25.2* | | ug/L | *29.7* | | *84.8* | *15-139* | | | |
| *Surrogate: Terphenyl-dl4* | *27.5* | | ug/L | *28.8* | | *95.5* | *27-141* | | | |
| **LCS (1HD0906-BS1)** | | | | Prepared: 04/15/24 13:45 Analyzed: 04/29/24 16:39 | | | | | | |
| N-Nitrosodimethylamine | 20.3 | 8 | ug/L | 21.4 | | 95.1 | 36-138 | | | |
| Methyl Methanesulfonate | 18.7 | 8 | ug/L | 25.0 | | 74.6 | 22-114 | | | |
| N-Nitrosodiethylamine | 43.2 | 8 | ug/L | 50.0 | | 86.5 | 52-114 | | | |
| N-Nitrosomethylethylamine | 44.5 | 8 | ug/L | 50.0 | | 88.9 | 36-120 | | | |
| Ethyl Methanesulfonate | 20.9 | 8 | ug/L | 25.0 | | 83.4 | 46-110 | | | |
| Phenol | 21.6 | 8 | ug/L | 21.4 | | 101 | 50-112 | | | |
| Bis(2-Chloroethyl) Ether | 18.8 | 8 | ug/L | 21.4 | | 87.7 | 39-151 | | | |
| 2-Chlorophenol | 20.2 | 8 | ug/L | 21.4 | | 94.5 | 56-116 | | | |
| Benzyl Alcohol | 24.0 | 8 | ug/L | 21.4 | | 112 | 13-158 | | | |
| 2-Methylphenol (o-Cresol) | 21.2 | 8 | ug/L | 21.4 | | 99.1 | 53-131 | | | |
| Bis[2-Chloroisopropyl]ether | 24.3 | 8 | ug/L | 21.4 | | 113 | 50-121 | | | |
| n-Nitroso-di-n-propylamine | 23.6 | 8 | ug/L | 21.4 | | 110 | 50-138 | | | |

| Determination of Base/Neutral/Acid Extractable Compounds | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 1HD0906 - 3520C BNA Cont Liq - EPA 8270C** | | | | | | | | | | |
| **LCS (1HD0906-BS1)** | | | | Prepared: 04/15/24 13:45 Analyzed: 04/29/24 16:39 | | | | | | |
| N-Nitrosopyrrolidine | 44.2 | 8 | ug/L | 50.0 | | 88.4 | 31-118 | | | |
| Acetophenone | 22.2 | 8 | ug/L | 25.0 | | 88.8 | 45-104 | | | |
| o-Toluidine | 29.9 | 8 | ug/L | 50.0 | | 59.7 | 10-163 | | | |
| (3 & 4)-Methylphenol | 23.9 | 8 | ug/L | 21.4 | | 112 | 30-164 | | | |
| Hexachloroethane | 15.7 | 8 | ug/L | 21.4 | | 73.5 | 10-110 | | | |
| Nitrobenzene | 24.5 | 8 | ug/L | 21.4 | | 114 | 47-134 | | | |
| N-Nitrosopiperidine | 47.8 | 8 | ug/L | 50.0 | | 95.5 | 51-122 | | | |
| Isophorone | 25.0 | 8 | ug/L | 21.4 | | 117 | 54-128 | | | |
| 2-Nitrophenol | 24.5 | 8 | ug/L | 21.4 | | 115 | 54-117 | | | |
| 2,4-Dimethylphenol | 25.6 | 8 | ug/L | 21.4 | | 120 | 52-118 | | | QS-02 |
| Bis (2-Chloroethoxy) Methane | 12.4 | 8 | ug/L | 21.4 | | 58.1 | 13-132 | | | |
| 2,4-Dichlorophenol | 25.7 | 8 | ug/L | 21.4 | | 120 | 58-114 | | | QS-02 |
| Naphthalene | 22.4 | 8 | ug/L | 21.4 | | 105 | 37-116 | | | |
| 2,6-Dichlorophenol | 23.4 | 8 | ug/L | 25.0 | | 93.5 | 52-129 | | | |
| Hexachloropropene | 10.7 | 8 | ug/L | 25.0 | | 42.8 | 14-110 | | | |
| Hexachlorobutadiene | 12.5 | 8 | ug/L | 21.4 | | 58.3 | 14-110 | | | |
| N-Nitrosodi-n-butylamine | 47.0 | 8 | ug/L | 50.0 | | 93.9 | 40-135 | | | |
| 4-Chloro-3-methylphenol | 27.0 | 8 | ug/L | 21.4 | | 126 | 57-136 | | | |
| 2-Methylnaphthalene | 21.7 | 8 | ug/L | 21.4 | | 101 | 44-111 | | | |
| Isosafrole | 20.0 | 8 | ug/L | 25.0 | | 80.2 | 49-107 | | | |
| 1,2,4,5-Tetrachlorobenzene | 14.0 | 8 | ug/L | 25.0 | | 56.1 | 42-110 | | | |
| Hexachlorocyclopentadiene | 16.2 | 8 | ug/L | 21.4 | | 75.5 | 11-110 | | | |
| 2,4,6-Trichlorophenol | 24.2 | 8 | ug/L | 21.4 | | 113 | 55-120 | | | |
| 2,4,5-Trichlorophenol | 26.3 | 8 | ug/L | 21.4 | | 123 | 55-121 | | | QS-02 |
| Safrole | 13.5 | 8 | ug/L | 25.0 | | 53.8 | 40-118 | | | |
| 2-Chloronaphthalene | 15.2 | 8 | ug/L | 21.4 | | 71.2 | 47-127 | | | |
| 2-Nitroaniline | 24.0 | 8 | ug/L | 21.4 | | 112 | 36-143 | | | |
| Dimethylphthalate | 24.5 | 8 | ug/L | 21.4 | | 115 | 59-128 | | | |
| 1,3-Dinitrobenzene | 24.2 | 8 | ug/L | 21.4 | | 113 | 63-125 | | | |
| 1,2-Dinitrobenzene | 24.9 | 8 | ug/L | 21.4 | | 116 | 63-123 | | | |
| 2,6-Dinitrotoluene | 24.6 | 8 | ug/L | 21.4 | | 115 | 60-127 | | | |
| Acenaphthylene | 18.9 | 8 | ug/L | 21.4 | | 88.2 | 49-113 | | | |
| Acenaphthene | 22.1 | 8 | ug/L | 21.4 | | 103 | 50-119 | | | |
| 2,4-Dinitrophenol | 26.2 | 8 | ug/L | 21.4 | | 123 | 27-157 | | | |
| 4-Nitrophenol | 24.4 | 8 | ug/L | 21.4 | | 114 | 49-154 | | | |
| Dibenzofuran | 22.6 | 8 | ug/L | 21.4 | | 106 | 56-121 | | | |
| 2,4-Dinitrotoluene | 25.3 | 8 | ug/L | 21.4 | | 118 | 53-138 | | | |
| 2,3,4,6-Tetrachlorophenol | 25.4 | 8 | ug/L | 21.4 | | 119 | 47-132 | | | |
| Pentachlorobenzene | 19.6 | 8 | ug/L | 25.0 | | 78.4 | 41-125 | | | |
| Diethyl Phthalate | 25.9 | 8 | ug/L | 21.4 | | 121 | 53-138 | | | |
| Fluorene | 24.1 | 8 | ug/L | 21.4 | | 113 | 54-125 | | | |
| 4-Chlorophenyl Phenyl Ether | 23.2 | 8 | ug/L | 21.4 | | 108 | 51-122 | | | |

| Determination of Base/Neutral/Acid Extractable Compounds | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 1HD0906 - 3520C BNA Cont Liq - EPA 8270C** | | | | | | | | | | |
| **LCS (1HD0906-BS1)** | | | | Prepared: 04/15/24 13:45 Analyzed: 04/29/24 16:39 | | | | | | |
| 4-Nitroaniline | <8 | 8 | ug/L | 21.4 | | 36.6 | 10-136 | | | |
| 4,6-Dinitro-2-methylphenol | 24.4 | 8 | ug/L | 21.4 | | 114 | 49-137 | | | |
| Diphenylamine | 18.6 | 8 | ug/L | 21.4 | | 86.7 | 35-151 | | | |
| Azobenzene | 23.6 | 8 | ug/L | 21.4 | | 110 | 16-156 | | | |
| Diallate | 22.8 | 8 | ug/L | 25.0 | | 91.3 | 54-132 | | | |
| 1,3,5-Trinitrobenzene | 23.7 | 8 | ug/L | 25.0 | | 94.9 | 57-173 | | | |
| Phenacetin | 23.9 | 8 | ug/L | 25.0 | | 95.6 | 55-121 | | | |
| 4-Bromophenyl Phenyl Ether | 22.8 | 8 | ug/L | 21.4 | | 107 | 53-122 | | | |
| Pentachlorophenol | 25.4 | 8 | ug/L | 21.4 | | 119 | 18-152 | | | |
| Pronamide | 19.2 | 8 | ug/L | 25.0 | | 76.8 | 42-122 | | | |
| Pentachloronitrobenzene (PCNB) | 24.0 | 8 | ug/L | 25.0 | | 95.9 | 50-128 | | | |
| Phenanthrene | 24.0 | 8 | ug/L | 21.4 | | 112 | 59-131 | | | |
| Anthracene | 22.1 | 8 | ug/L | 21.4 | | 103 | 59-127 | | | |
| Di-n-butyl Phthalate | 26.0 | 8 | ug/L | 21.4 | | 122 | 64-148 | | | |
| Fluoranthene | 26.0 | 8 | ug/L | 21.4 | | 121 | 62-132 | | | |
| Isodrin | 23.3 | 8 | ug/L | 25.0 | | 93.2 | 46-130 | | | |
| Chlorobenzilate | 22.3 | 8 | ug/L | 25.0 | | 89.1 | 48-150 | | | |
| Pyrene | 26.4 | 8 | ug/L | 21.4 | | 123 | 58-135 | | | |
| p-(Dimethylamino)azobenzene | 26.2 | 8 | ug/L | 50.0 | | 52.4 | 28-146 | | | |
| Butyl Benzyl Phthalate | 24.2 | 8 | ug/L | 21.4 | | 113 | 52-150 | | | |
| Benzo(a)anthracene | 24.3 | 8 | ug/L | 21.4 | | 113 | 58-131 | | | |
| Chrysene | 25.4 | 8 | ug/L | 21.4 | | 119 | 59-131 | | | |
| Bis(2-Ethylhexyl) Phthalate | 26.4 | 6 | ug/L | 21.4 | | 123 | 33-184 | | | |
| 2-Acetylaminofluorene | 57.8 | 8 | ug/L | 50.0 | | 116 | 47-166 | | | |
| Di-n-octyl Phthalate | 29.6 | 8 | ug/L | 21.4 | | 138 | 48-162 | | | |
| Benzo(b)Fluoranthene | 29.0 | 8 | ug/L | 21.4 | | 136 | 50-146 | | | |
| 7,12-Dimethylbenz [a] anthracene | 20.4 | 8 | ug/L | 25.0 | | 81.7 | 22-155 | | | |
| Benzo(k)Fluoranthene | 27.1 | 8 | ug/L | 21.4 | | 127 | 54-144 | | | |
| Benzo(a)Pyrene | 22.2 | 8 | ug/L | 21.4 | | 104 | 39-148 | | | |
| 3-Methylcholanthrene | 11.5 | 8 | ug/L | 25.0 | | 46.1 | 34-118 | | | |
| Dibenzo(a,h)anthracene | 27.7 | 8 | ug/L | 21.4 | | 129 | 46-153 | | | |
| Indeno(1,2,3-cd)Pyrene | 26.8 | 8 | ug/L | 21.4 | | 125 | 48-152 | | | |
| Benzo(g,h,i)perylene | 26.1 | 8 | ug/L | 21.4 | | 122 | 47-161 | | | |
| *Surrogate: 2-Fluorophenol* | *23.9* | | ug/L | *29.6* | | *80.9* | *24-136* | | | |
| *Surrogate: Phenol-d6* | *25.6* | | ug/L | *30.5* | | *84.2* | *15-140* | | | |
| *Surrogate: Nitrobenzene-d5* | *28.9* | | ug/L | *30.0* | | *96.2* | *38-115* | | | |
| *Surrogate: 2-Fluorobiphenyl* | *24.8* | | ug/L | *28.8* | | *86.1* | *33-110* | | | |
| *Surrogate: 2,4,6-Tribromophenol* | *31.4* | | ug/L | *29.7* | | *105* | *15-139* | | | |
| *Surrogate: Terphenyl-dl4* | *32.0* | | ug/L | *28.8* | | *111* | *30-142* | | | |
| **LCS Dup (1HD0906-BSD1)** | | | | Prepared: 04/15/24 13:45 Analyzed: 04/29/24 17:03 | | | | | | |
| N-Nitrosodimethylamine | 18.8 | 8 | ug/L | 21.4 | | 88.0 | 36-138 | 7.76 | 30 | |
| Methyl Methanesulfonate | 17.9 | 8 | ug/L | 25.0 | | 71.5 | 22-114 | 4.33 | 23 | |

| Determination of Base/Neutral/Acid Extractable Compounds | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 1HD0906 - 3520C BNA Cont Liq - EPA 8270C** | | | | | | | | | | |
| **LCS Dup (1HD0906-BSD1)** | | | Prepared: 04/15/24 13:45 Analyzed: 04/29/24 17:03 | | | | | | | |
| N-Nitrosodiethylamine | 40.4 | 8 | ug/L | 50.0 | | 80.9 | 52-114 | 6.69 | 18 | |
| N-Nitrosomethylethylamine | 42.4 | 8 | ug/L | 50.0 | | 84.8 | 36-120 | 4.70 | 22 | |
| Ethyl Methanesulfonate | 18.8 | 8 | ug/L | 25.0 | | 75.2 | 46-110 | 10.4 | 24 | |
| Phenol | 20.5 | 8 | ug/L | 21.4 | | 96.0 | 50-112 | 5.12 | 28 | |
| Bis(2-Chloroethyl) Ether | 16.9 | 8 | ug/L | 21.4 | | 78.8 | 39-151 | 10.7 | 30 | |
| 2-Chlorophenol | 20.1 | 8 | ug/L | 21.4 | | 93.9 | 56-116 | 0.546 | 22 | |
| Benzyl Alcohol | 22.3 | 8 | ug/L | 21.4 | | 104 | 13-158 | 7.18 | 30 | |
| 2-Methylphenol (o-Cresol) | 20.5 | 8 | ug/L | 21.4 | | 95.9 | 53-131 | 3.31 | 25 | |
| Bis[2-Chloroisopropyl]ether | 20.1 | 8 | ug/L | 21.4 | | 94.1 | 50-121 | 18.7 | 25 | |
| n-Nitroso-di-n-propylamine | 22.4 | 8 | ug/L | 21.4 | | 105 | 50-138 | 5.04 | 30 | |
| N-Nitrosopyrrolidine | 41.4 | 8 | ug/L | 50.0 | | 82.8 | 31-118 | 6.50 | 30 | |
| Acetophenone | 20.6 | 8 | ug/L | 25.0 | | 82.2 | 45-104 | 7.67 | 30 | |
| o-Toluidine | 28.2 | 8 | ug/L | 50.0 | | 56.4 | 10-163 | 5.72 | 30 | |
| (3 & 4)-Methylphenol | 22.6 | 8 | ug/L | 21.4 | | 105 | 30-164 | 5.72 | 30 | |
| Hexachloroethane | 13.6 | 8 | ug/L | 21.4 | | 63.7 | 10-110 | 14.4 | 37 | |
| Nitrobenzene | 22.5 | 8 | ug/L | 21.4 | | 105 | 47-134 | 8.48 | 28 | |
| N-Nitrosopiperidine | 43.9 | 8 | ug/L | 50.0 | | 87.8 | 51-122 | 8.38 | 30 | |
| Isophorone | 22.5 | 8 | ug/L | 21.4 | | 105 | 54-128 | 10.6 | 22 | |
| 2-Nitrophenol | 22.2 | 8 | ug/L | 21.4 | | 104 | 54-117 | 9.97 | 21 | |
| 2,4-Dimethylphenol | 22.9 | 8 | ug/L | 21.4 | | 107 | 52-118 | 11.2 | 23 | |
| Bis (2-Chloroethoxy) Methane | 18.7 | 8 | ug/L | 21.4 | | 87.2 | 13-132 | 40.0 | 30 | QR-02 |
| 2,4-Dichlorophenol | 23.6 | 8 | ug/L | 21.4 | | 110 | 58-114 | 8.48 | 20 | |
| Naphthalene | 19.5 | 8 | ug/L | 21.4 | | 91.2 | 37-116 | 13.6 | 17 | |
| 2,6-Dichlorophenol | 21.6 | 8 | ug/L | 25.0 | | 86.4 | 52-129 | 7.91 | 16 | |
| Hexachloropropene | 8.9 | 8 | ug/L | 25.0 | | 35.4 | 14-110 | 18.7 | 29 | |
| Hexachlorobutadiene | 11.4 | 8 | ug/L | 21.4 | | 53.5 | 14-110 | 8.70 | 29 | |
| N-Nitrosodi-n-butylamine | 43.7 | 8 | ug/L | 50.0 | | 87.4 | 40-135 | 7.26 | 23 | |
| 4-Chloro-3-methylphenol | 24.9 | 8 | ug/L | 21.4 | | 116 | 57-136 | 8.20 | 18 | |
| 2-Methylnaphthalene | 18.4 | 8 | ug/L | 21.4 | | 85.9 | 44-111 | 16.5 | 20 | |
| Isosafrole | 18.1 | 8 | ug/L | 25.0 | | 72.4 | 49-107 | 10.2 | 12 | |
| 1,2,4,5-Tetrachlorobenzene | 12.9 | 8 | ug/L | 25.0 | | 51.7 | 42-110 | 8.17 | 30 | |
| Hexachlorocyclopentadiene | 11.1 | 8 | ug/L | 21.4 | | 51.7 | 11-110 | 37.3 | 29 | QR-02 |
| 2,4,6-Trichlorophenol | 24.5 | 8 | ug/L | 21.4 | | 115 | 55-120 | 1.44 | 15 | |
| 2,4,5-Trichlorophenol | 25.9 | 8 | ug/L | 21.4 | | 121 | 55-121 | 1.49 | 16 | QS-02 |
| Safrole | 19.0 | 8 | ug/L | 25.0 | | 75.9 | 40-118 | 34.0 | 30 | QR-02 |
| 2-Chloronaphthalene | 14.1 | 8 | ug/L | 21.4 | | 65.9 | 47-127 | 7.71 | 17 | |
| 2-Nitroaniline | 24.6 | 8 | ug/L | 21.4 | | 115 | 36-143 | 2.55 | 30 | |
| Dimethylphthalate | 25.8 | 8 | ug/L | 21.4 | | 121 | 59-128 | 5.25 | 15 | |
| 1,3-Dinitrobenzene | 27.1 | 8 | ug/L | 21.4 | | 127 | 63-125 | 11.2 | 14 | QS-02 |
| 1,2-Dinitrobenzene | 25.5 | 8 | ug/L | 21.4 | | 119 | 63-123 | 2.26 | 18 | |
| 2,6-Dinitrotoluene | 25.8 | 8 | ug/L | 21.4 | | 121 | 60-127 | 4.64 | 13 | |
| Acenaphthylene | 21.7 | 8 | ug/L | 21.4 | | 101 | 49-113 | 13.9 | 23 | |

| Determination of Base/Neutral/Acid Extractable Compounds | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 1HD0906 - 3520C BNA Cont Liq - EPA 8270C** | | | | | | | | | | |
| **LCS Dup (1HD0906-BSD1)** | | | | Prepared: 04/15/24 13:45 Analyzed: 04/29/24 17:03 | | | | | | |
| Acenaphthene | 20.9 | 8 | ug/L | 21.4 | | 97.8 | 50-119 | 5.67 | 16 | |
| 2,4-Dinitrophenol | 29.8 | 8 | ug/L | 21.4 | | 139 | 27-157 | 12.6 | 23 | |
| 4-Nitrophenol | 23.7 | 8 | ug/L | 21.4 | | 111 | 49-154 | 2.58 | 28 | |
| Dibenzofuran | 22.3 | 8 | ug/L | 21.4 | | 104 | 56-121 | 1.69 | 18 | |
| 2,4-Dinitrotoluene | 24.7 | 8 | ug/L | 21.4 | | 115 | 53-138 | 2.56 | 18 | |
| 2,3,4,6-Tetrachlorophenol | 28.6 | 8 | ug/L | 21.4 | | 133 | 47-132 | 11.9 | 29 | QS-02 |
| Pentachlorobenzene | 19.2 | 8 | ug/L | 25.0 | | 76.7 | 41-125 | 2.17 | 22 | |
| Diethyl Phthalate | 26.5 | 8 | ug/L | 21.4 | | 124 | 53-138 | 2.60 | 18 | |
| Fluorene | 22.5 | 8 | ug/L | 21.4 | | 105 | 54-125 | 6.83 | 14 | |
| 4-Chlorophenyl Phenyl Ether | 21.9 | 8 | ug/L | 21.4 | | 102 | 51-122 | 5.46 | 15 | |
| 4-Nitroaniline | 9.1 | 8 | ug/L | 21.4 | | 42.6 | 10-136 | 15.0 | 30 | |
| 4,6-Dinitro-2-methylphenol | 25.0 | 8 | ug/L | 21.4 | | 117 | 49-137 | 2.47 | 16 | |
| Diphenylamine | 21.2 | 8 | ug/L | 21.4 | | 99.1 | 35-151 | 13.3 | 30 | |
| Azobenzene | 23.4 | 8 | ug/L | 21.4 | | 109 | 16-156 | 0.893 | 30 | |
| Diallate | 22.4 | 8 | ug/L | 25.0 | | 89.6 | 54-132 | 1.90 | 25 | |
| 1,3,5-Trinitrobenzene | 23.2 | 8 | ug/L | 25.0 | | 93.0 | 57-173 | 2.04 | 30 | |
| Phenacetin | 23.4 | 8 | ug/L | 25.0 | | 93.8 | 55-121 | 1.90 | 30 | |
| 4-Bromophenyl Phenyl Ether | 23.3 | 8 | ug/L | 21.4 | | 109 | 53-122 | 1.87 | 16 | |
| Pentachlorophenol | 27.5 | 8 | ug/L | 21.4 | | 128 | 18-152 | 7.71 | 30 | |
| Pronamide | 21.6 | 8 | ug/L | 25.0 | | 86.2 | 42-122 | 11.5 | 30 | |
| Pentachloronitrobenzene (PCNB) | 23.9 | 8 | ug/L | 25.0 | | 95.6 | 50-128 | 0.292 | 18 | |
| Phenanthrene | 24.2 | 8 | ug/L | 21.4 | | 113 | 59-131 | 0.746 | 16 | |
| Anthracene | 23.7 | 8 | ug/L | 21.4 | | 111 | 59-127 | 7.16 | 16 | |
| Di-n-butyl Phthalate | 26.5 | 8 | ug/L | 21.4 | | 124 | 64-148 | 1.67 | 30 | |
| Fluoranthene | 25.8 | 8 | ug/L | 21.4 | | 120 | 62-132 | 0.735 | 16 | |
| Isodrin | 21.9 | 8 | ug/L | 25.0 | | 87.7 | 46-130 | 6.10 | 29 | |
| Chlorobenzilate | 22.1 | 8 | ug/L | 25.0 | | 88.4 | 48-150 | 0.811 | 30 | |
| Pyrene | 24.5 | 8 | ug/L | 21.4 | | 115 | 58-135 | 7.38 | 18 | |
| p-(Dimethylamino)azobenzene | 21.0 | 8 | ug/L | 50.0 | | 42.0 | 28-146 | 22.1 | 30 | |
| Butyl Benzyl Phthalate | 24.1 | 8 | ug/L | 21.4 | | 112 | 52-150 | 0.415 | 30 | |
| Benzo(a)anthracene | 24.0 | 8 | ug/L | 21.4 | | 112 | 58-131 | 1.29 | 30 | |
| Chrysene | 25.0 | 8 | ug/L | 21.4 | | 117 | 59-131 | 1.35 | 30 | |
| Bis(2-Ethylhexyl) Phthalate | 28.6 | 6 | ug/L | 21.4 | | 134 | 33-184 | 8.08 | 30 | |
| 2-Acetylaminofluorene | 54.9 | 8 | ug/L | 50.0 | | 110 | 47-166 | 5.23 | 30 | |
| Di-n-octyl Phthalate | 29.3 | 8 | ug/L | 21.4 | | 137 | 48-162 | 0.985 | 30 | |
| Benzo(b)Fluoranthene | 28.3 | 8 | ug/L | 21.4 | | 132 | 50-146 | 2.34 | 30 | |
| 7,12-Dimethylbenz [a] anthracene | 21.2 | 8 | ug/L | 25.0 | | 84.7 | 22-155 | 3.61 | 30 | |
| Benzo(k)Fluoranthene | 28.6 | 8 | ug/L | 21.4 | | 134 | 54-144 | 5.27 | 30 | |
| Benzo(a)Pyrene | 24.3 | 8 | ug/L | 21.4 | | 114 | 39-148 | 9.11 | 30 | |
| 3-Methylcholanthrene | 19.9 | 8 | ug/L | 25.0 | | 79.6 | 34-118 | 53.2 | 30 | QR-02 |
| Dibenzo(a,h)anthracene | 25.6 | 8 | ug/L | 21.4 | | 120 | 46-153 | 7.58 | 30 | |
| Indeno(1,2,3-cd)Pyrene | 25.3 | 8 | ug/L | 21.4 | | 118 | 48-152 | 5.79 | 30 | |

| Determination of Base/Neutral/Acid Extractable Compounds | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 1HD0906 - 3520C BNA Cont Liq - EPA 8270C** | | | | | | | | | | |
| **LCS Dup (1HD0906-BSD1)** | | | | Prepared: 04/15/24 13:45 Analyzed: 04/29/24 17:03 | | | | | | |
| Benzo(g,h,i)perylene | 25.3 | 8 | ug/L | 21.4 | | 118 | 47-161 | 3.31 | 30 | |
| *Surrogate: 2-Fluorophenol* | *22.4* | | ug/L | *29.6* | | *75.8* | *24-136* | | | |
| *Surrogate: Phenol-d6* | *24.6* | | ug/L | *30.5* | | *80.6* | *15-140* | | | |
| *Surrogate: Nitrobenzene-d5* | *26.8* | | ug/L | *30.0* | | *89.2* | *38-115* | | | |
| *Surrogate: 2-Fluorobiphenyl* | *23.8* | | ug/L | *28.8* | | *82.6* | *33-110* | | | |
| *Surrogate: 2,4,6-Tribromophenol* | *30.2* | | ug/L | *29.7* | | *102* | *15-139* | | | |
| *Surrogate: Terphenyl-dl4* | *30.0* | | ug/L | *28.8* | | *104* | *30-142* | | | |

| Determination of Organophosphorus Insecticides | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 1HD0937 - 3510C NP/OC Sep Fnl - EPA 8141** | | | | | | | | | | |
| **Blank (1HD0937-BLK1)** | | | | Prepared: 04/15/24 16:44 Analyzed: 04/18/24 19:18 | | | | | | |
| 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* | *ND* | | ug/L | *8.34* | | | *38-122* | | | *A-01* |
| **LCS (1HD0937-BS1)** | | | | Prepared: 04/15/24 16:44 Analyzed: 04/19/24 00:08 | | | | | | |
| O,O,O-Triethyl phosphorothioate | 3.86 | 0.4 | ug/L | 4.02 | | 95.8 | 42-115 | | | |
| Thionazin | 3.98 | 0.4 | ug/L | 4.03 | | 98.8 | 28-118 | | | |
| Phorate | 3.88 | 0.4 | ug/L | 4.03 | | 96.1 | 18-159 | | | |
| Dimethoate | 5.05 | 0.4 | ug/L | 4.03 | | 125 | 43-155 | | | |
| Disulfoton | 3.65 | 0.4 | ug/L | 4.03 | | 90.6 | 37-126 | | | |
| Methyl Parathion | 3.96 | 0.4 | ug/L | 4.04 | | 98.0 | 28-145 | | | |
| Parathion | 3.62 | 0.4 | ug/L | 4.00 | | 90.6 | 52-121 | | | |
| Famphur | 4.53 | 0.4 | ug/L | 4.02 | | 113 | 44-144 | | | |
| *Surrogate: 2-Nitro-m-xylene* | *7.84* | | ug/L | *8.34* | | *94.0* | *38-122* | | | |
| **LCS Dup (1HD0937-BSD1)** | | | | Prepared: 04/15/24 16:44 Analyzed: 04/19/24 01:06 | | | | | | |
| O,O,O-Triethyl phosphorothioate | 3.79 | 0.4 | ug/L | 4.02 | | 94.2 | 42-115 | 1.70 | 30 | |
| Thionazin | 4.02 | 0.4 | ug/L | 4.03 | | 99.5 | 28-118 | 0.750 | 30 | |
| Phorate | 3.86 | 0.4 | ug/L | 4.03 | | 95.7 | 18-159 | 0.388 | 30 | |
| Dimethoate | 4.68 | 0.4 | ug/L | 4.03 | | 116 | 43-155 | 7.61 | 22 | |
| Disulfoton | 3.88 | 0.4 | ug/L | 4.03 | | 96.3 | 37-126 | 6.11 | 30 | |

| Determination of Organophosphorus Insecticides | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 1HD0937 - 3510C NP/OC Sep Fnl - EPA 8141** | | | | | | | | | | |
| **LCS Dup (1HD0937-BSD1)** | | | | Prepared: 04/15/24 16:44 Analyzed: 04/19/24 01:06 | | | | | | |
| Methyl Parathion | 4.01 | 0.4 | ug/L | 4.04 | | 99.3 | 28-145 | 1.25 | 28 | |
| Parathion | 3.72 | 0.4 | ug/L | 4.00 | | 92.9 | 52-121 | 2.45 | 26 | |
| Famphur | 4.30 | 0.4 | ug/L | 4.02 | | 107 | 44-144 | 5.21 | 28 | |
| *Surrogate: 2-Nitro-m-xylene* | *7.68* | | ug/L | *8.34* | | *92.0* | *38-122* | | | |

| Determination of Chlorinated Phenoxy Herbicides | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 1HD0942 - EPA 8151A - EPA 8151A** | | | | | | | | | | |
| **Blank (1HD0942-BLK1)** | | | | Prepared: 04/15/24 17:31 Analyzed: 04/30/24 09:58 | | | | | | |
| 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* | *1.96* | | ug/L | *2.02* | | *96.8* | *31-116* | | | |
| **LCS (1HD0942-BS1)** | | | | Prepared: 04/15/24 17:31 Analyzed: 04/30/24 10:31 | | | | | | |
| 2,4-D | <2.0 | 2.0 | ug/L | 1.15 | | 87.0 | 16-161 | | | |
| 2,4,5-TP (Silvex) | 0.54 | 0.5 | ug/L | 0.575 | | 94.8 | 35-141 | | | |
| 2,4,5-T | 0.70 | 0.5 | ug/L | 0.575 | | 121 | 54-149 | | | |
| Dinoseb | 0.74 | 0.5 | ug/L | 1.15 | | 63.9 | 10-133 | | | |
| *Surrogate: 2,5-Dichlorobenzoic Acid* | *1.92* | | ug/L | *2.02* | | *95.3* | *31-116* | | | |
| **LCS Dup (1HD0942-BSD1)** | | | | Prepared: 04/15/24 17:31 Analyzed: 04/30/24 16:12 | | | | | | |
| 2,4-D | <2.0 | 2.0 | ug/L | 1.15 | | 89.6 | 16-161 | 2.96 | 30 | |
| 2,4,5-TP (Silvex) | 0.57 | 0.5 | ug/L | 0.575 | | 99.1 | 35-141 | 4.48 | 30 | |
| 2,4,5-T | 0.70 | 0.5 | ug/L | 0.575 | | 122 | 54-149 | 0.717 | 30 | |
| Dinoseb | <0.5 | 0.5 | ug/L | 1.15 | | 31.3 | 10-133 | 68.5 | 30 | QR-02 |
| *Surrogate: 2,5-Dichlorobenzoic Acid* | *2.04* | | ug/L | *2.02* | | *101* | *31-116* | | | |

| Determination of Organochlorine Insecticides & Metabolites | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 1HD0934 - 3510C NP/OC Sep Fnl - EPA 8081** | | | | | | | | | | |
| **Blank (1HD0934-BLK1)** | | | | Prepared: 04/15/24 16:43 Analyzed: 04/17/24 17:02 | | | | | | |
| 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 | | | | | | | |

| Determination of Organochlorine Insecticides & Metabolites | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 1HD0934 - 3510C NP/OC Sep Fnl - EPA 8081** | | | | | | | | | | |
| **Blank (1HD0934-BLK1)** | | | | Prepared: 04/15/24 16:43 Analyzed: 04/17/24 17:02 | | | | | | |
| 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* | *0.521* | | ug/L | *0.600* | | *86.8* | *10-121* | | | |
| **LCS (1HD0934-BS1)** | | | | Prepared: 04/15/24 16:43 Analyzed: 04/17/24 17:17 | | | | | | |
| Alpha-BHC | 0.236 | 0.05 | ug/L | 0.250 | | 94.5 | 33-123 | | | |
| Gamma-BHC [Lindane] | 0.228 | 0.05 | ug/L | 0.250 | | 91.1 | 34-120 | | | |
| Beta-BHC | 0.225 | 0.05 | ug/L | 0.250 | | 89.9 | 33-125 | | | |
| Heptachlor | 0.255 | 0.05 | ug/L | 0.250 | | 102 | 32-117 | | | |
| Delta-BHC | 0.268 | 0.05 | ug/L | 0.250 | | 107 | 24-140 | | | |
| Aldrin | 0.207 | 0.05 | ug/L | 0.250 | | 82.7 | 29-122 | | | |
| Heptachlor Epoxide | 0.222 | 0.05 | ug/L | 0.250 | | 88.6 | 37-137 | | | |
| Endosulfan I | 0.239 | 0.05 | ug/L | 0.250 | | 95.6 | 27-141 | | | |
| 4,4`-DDE | 0.227 | 0.05 | ug/L | 0.250 | | 90.6 | 38-147 | | | |
| Dieldrin | 0.217 | 0.05 | ug/L | 0.250 | | 86.8 | 32-137 | | | |
| Endrin | 0.320 | 0.05 | ug/L | 0.250 | | 128 | 25-142 | | | |
| 4,4`-DDD | 0.227 | 0.05 | ug/L | 0.250 | | 90.8 | 43-146 | | | |
| Endosulfan II | 0.238 | 0.05 | ug/L | 0.250 | | 95.3 | 36-140 | | | |
| 4,4`-DDT | 0.296 | 0.05 | ug/L | 0.250 | | 118 | 39-140 | | | |
| Endrin Aldehyde | 0.236 | 0.05 | ug/L | 0.250 | | 94.3 | 17-150 | | | |
| Endosulfan Sulfate | 0.246 | 0.05 | ug/L | 0.250 | | 98.5 | 41-135 | | | |
| Methoxychlor | 0.337 | 0.05 | ug/L | 0.250 | | 135 | 40-148 | | | |
| *Surrogate: Tetrachloro-m-xylene* | *0.545* | | ug/L | *0.600* | | *90.9* | *10-121* | | | |
| **LCS Dup (1HD0934-BSD1)** | | | | Prepared: 04/15/24 16:43 Analyzed: 04/17/24 17:32 | | | | | | |
| Alpha-BHC | 0.243 | 0.05 | ug/L | 0.250 | | 97.0 | 33-123 | 2.60 | 30 | |
| Gamma-BHC [Lindane] | 0.235 | 0.05 | ug/L | 0.250 | | 94.1 | 34-120 | 3.24 | 30 | |
| Beta-BHC | 0.233 | 0.05 | ug/L | 0.250 | | 93.4 | 33-125 | 3.79 | 30 | |

| Determination of Organochlorine Insecticides & Metabolites | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 1HD0934 - 3510C NP/OC Sep Fnl - EPA 8081** | | | | | | | | | | |
| **LCS Dup (1HD0934-BSD1)** | | | Prepared: 04/15/24 16:43 Analyzed: 04/17/24 17:32 | | | | | | | |
| Heptachlor | 0.256 | 0.05 | ug/L | 0.250 | | 102 | 32-117 | 0.339 | 30 | |
| Delta-BHC | 0.271 | 0.05 | ug/L | 0.250 | | 109 | 24-140 | 1.26 | 30 | |
| Aldrin | 0.209 | 0.05 | ug/L | 0.250 | | 83.5 | 29-122 | 0.977 | 30 | |
| Heptachlor Epoxide | 0.229 | 0.05 | ug/L | 0.250 | | 91.5 | 37-137 | 3.19 | 30 | |
| Endosulfan I | 0.243 | 0.05 | ug/L | 0.250 | | 97.2 | 27-141 | 1.65 | 30 | |
| 4,4`-DDE | 0.229 | 0.05 | ug/L | 0.250 | | 91.6 | 38-147 | 1.03 | 30 | |
| Dieldrin | 0.222 | 0.05 | ug/L | 0.250 | | 88.8 | 32-137 | 2.27 | 30 | |
| Endrin | 0.324 | 0.05 | ug/L | 0.250 | | 130 | 25-142 | 1.32 | 30 | |
| 4,4`-DDD | 0.234 | 0.05 | ug/L | 0.250 | | 93.6 | 43-146 | 3.05 | 30 | |
| Endosulfan II | 0.241 | 0.05 | ug/L | 0.250 | | 96.5 | 36-140 | 1.25 | 30 | |
| 4,4`-DDT | 0.302 | 0.05 | ug/L | 0.250 | | 121 | 39-140 | 2.24 | 30 | |
| Endrin Aldehyde | 0.233 | 0.05 | ug/L | 0.250 | | 93.4 | 17-150 | 0.919 | 30 | |
| Endosulfan Sulfate | 0.249 | 0.05 | ug/L | 0.250 | | 99.6 | 41-135 | 1.16 | 30 | |
| Methoxychlor | 0.342 | 0.05 | ug/L | 0.250 | | 137 | 40-148 | 1.50 | 30 | |
| *Surrogate: Tetrachloro-m-xylene* | *0.534* | | ug/L | *0.600* | | *89.0* | *10-121* | | | |

| Determination of Polychlorinated Biphenyls (PCB) | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 1HD0935 - 3510C NP/OC Sep Fnl - EPA 8082** | | | | | | | | | | |
| **Blank (1HD0935-BLK1)** | | | Prepared: 04/15/24 16:43 Analyzed: 04/17/24 17:02 | | | | | | | |
| 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* | *0.561* | | ug/L | *0.600* | | *93.4* | *38-121* | | | |
| *Surrogate: Decachlorobiphenyl* | *0.274* | | ug/L | *0.600* | | *45.7* | *25-119* | | | |
| **LCS (1HD0935-BS1)** | | | Prepared: 04/15/24 16:43 Analyzed: 04/17/24 17:46 | | | | | | | |
| Arochlor 1016 | 2.014 | 0.20 | ug/L | 2.60 | | 77.5 | 25-126 | | | |
| Arochlor 1260 | 2.665 | 0.20 | ug/L | 2.60 | | 102 | 29-142 | | | |
| *Surrogate: Tetrachloro-m-xylene* | *0.571* | | ug/L | *0.600* | | *95.2* | *38-121* | | | |
| *Surrogate: Decachlorobiphenyl* | *0.296* | | ug/L | *0.600* | | *49.4* | *25-119* | | | |
| **LCS Dup (1HD0935-BSD1)** | | | Prepared: 04/15/24 16:43 Analyzed: 04/17/24 18:01 | | | | | | | |
| Arochlor 1016 | 1.954 | 0.20 | ug/L | 2.60 | | 75.2 | 25-126 | 3.02 | 30 | |
| Arochlor 1260 | 2.565 | 0.20 | ug/L | 2.60 | | 98.6 | 29-142 | 3.82 | 30 | |

| Determination of Polychlorinated Biphenyls (PCB) | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 1HD0935 - 3510C NP/OC Sep Fnl - EPA 8082** | | | | | | | | | | |
| **LCS Dup (1HD0935-BSD1)** | | | Prepared: 04/15/24 16:43 Analyzed: 04/17/24 18:01 | | | | | | | |
| *Surrogate: Tetrachloro-m-xylene* | *0.534* | | ug/L | *0.600* | | *89.1* | *38-121* | | | |
| *Surrogate: Decachlorobiphenyl* | *0.322* | | ug/L | *0.600* | | *53.7* | *25-119* | | | |

| Determination of Conventional Chemistry Parameters | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 1HD0714 - Wet Chem Preparation - EPA 376.2** | | | | | | | | | | |
| **Blank (1HD0714-BLK1)** | | | Prepared: 04/11/24 09:22 Analyzed: 04/15/24 17:17 | | | | | | | |
| Sulfide, total | <0.10 | 0.10 | mg/L | | | | | | | |
| **LCS (1HD0714-BS1)** | | | Prepared: 04/11/24 09:22 Analyzed: 04/15/24 17:17 | | | | | | | |
| Sulfide, total | 0.223 | 0.10 | mg/L | 0.31 | | 70.8 | 59-110 | | | |
| **Matrix Spike (1HD0714-MS1)** | **Source: 1HD0788-02** | | Prepared: 04/11/24 09:22 Analyzed: 04/15/24 17:17 | | | | | | | |
| Sulfide, total | 0.604 | 0.30 | mg/L | 0.94 | ND | 64.0 | 50-150 | | | |
| **Matrix Spike Dup (1HD0714-MSD1)** | **Source: 1HD0788-02** | | Prepared: 04/11/24 09:22 Analyzed: 04/15/24 17:17 | | | | | | | |
| Sulfide, total | 0.855 | 0.30 | mg/L | 0.94 | ND | 90.5 | 50-150 | 34.4 | 30 | QR-02 |
| **Batch 1HD1205 - Wet Chem Preparation - EPA 9010B** | | | | | | | | | | |
| **Blank (1HD1205-BLK1)** | | | Prepared: 04/18/24 17:16 Analyzed: 04/21/24 12:10 | | | | | | | |
| Cyanide, total | <0.005 | 0.005 | mg/L | | | | | | | |
| **LCS (1HD1205-BS1)** | | | Prepared: 04/18/24 17:16 Analyzed: 04/21/24 12:10 | | | | | | | |
| Cyanide, total | 0.0307 | 0.005 | mg/L | 0.0300 | | 102 | 66-136 | | | |
| **Matrix Spike (1HD1205-MS1)** | **Source: 1HD0814-02** | | Prepared: 04/18/24 17:16 Analyzed: 04/21/24 12:10 | | | | | | | |
| Cyanide, total | 0.0344 | 0.005 | mg/L | 0.0300 | ND | 115 | 59-153 | | | |
| **Matrix Spike Dup (1HD1205-MSD1)** | **Source: 1HD0814-02** | | Prepared: 04/18/24 17:16 Analyzed: 04/21/24 12:10 | | | | | | | |
| Cyanide, total | 0.0352 | 0.005 | mg/L | 0.0300 | ND | 117 | 59-153 | 2.26 | 30 | |

| Determination of Total Metals | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 1HD0843 - EPA 3005A Total Recoverable Metals - EPA 6020A** | | | | | | | | | | |
| **Blank (1HD0843-BLK1)** | | | Prepared: 04/12/24 16:25 Analyzed: 04/15/24 21:25 | | | | | | | |
| Antimony, total | <0.0020 | 0.0020 | mg/L | | | | | | | |
| Arsenic, total | <0.0040 | 0.0040 | mg/L | | | | | | | |
| Barium, total | <0.0040 | 0.0040 | mg/L | | | | | | | |
| Beryllium, total | <0.0040 | 0.0040 | mg/L | | | | | | | |
| Cadmium, total | <0.0008 | 0.0008 | mg/L | | | | | | | |
| Chromium, total | <0.0080 | 0.0080 | mg/L | | | | | | | |
| Cobalt, total | <0.0004 | 0.0004 | mg/L | | | | | | | |
| Copper, total | <0.0040 | 0.0040 | mg/L | | | | | | | |

| Determination of Total Metals | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 1HD0843 - EPA 3005A Total Recoverable Metals - EPA 6020A** | | | | | | | | | | |
| **Blank (1HD0843-BLK1)** | | | | Prepared: 04/12/24 16:25 Analyzed: 04/15/24 21:25 | | | | | | |
| Lead, total | <0.0040 | 0.0040 | mg/L | | | | | | | |
| Nickel, total | <0.0040 | 0.0040 | mg/L | | | | | | | |
| Selenium, total | <0.0040 | 0.0040 | mg/L | | | | | | | |
| Silver, total | <0.0040 | 0.0040 | mg/L | | | | | | | |
| Thallium, total | <0.0020 | 0.0020 | mg/L | | | | | | | |
| Tin, total | <0.0200 | 0.0200 | mg/L | | | | | | | |
| Vanadium, total | <0.0200 | 0.0200 | mg/L | | | | | | | |
| Zinc, total | <0.0200 | 0.0200 | mg/L | | | | | | | |
| **LCS (1HD0843-BS1)** | | | | Prepared: 04/12/24 16:25 Analyzed: 04/15/24 21:31 | | | | | | |
| Antimony, total | 0.0958 | 0.0020 | mg/L | 0.100 | | 95.8 | 80-120 | | | |
| Arsenic, total | 0.0968 | 0.0040 | mg/L | 0.100 | | 96.8 | 80-120 | | | |
| Barium, total | 0.106 | 0.0040 | mg/L | 0.100 | | 106 | 80-120 | | | |
| Beryllium, total | 0.0962 | 0.0040 | mg/L | 0.100 | | 96.2 | 80-120 | | | |
| Cadmium, total | 0.0972 | 0.0008 | mg/L | 0.100 | | 97.2 | 80-120 | | | |
| Chromium, total | 0.0940 | 0.0080 | mg/L | 0.100 | | 94.0 | 80-120 | | | |
| Cobalt, total | 0.0973 | 0.0004 | mg/L | 0.100 | | 97.3 | 80-120 | | | |
| Copper, total | 0.0970 | 0.0040 | mg/L | 0.100 | | 97.0 | 80-120 | | | |
| Lead, total | 0.0980 | 0.0040 | mg/L | 0.100 | | 98.0 | 80-120 | | | |
| Nickel, total | 0.0958 | 0.0040 | mg/L | 0.100 | | 95.8 | 80-120 | | | |
| Selenium, total | 0.0983 | 0.0040 | mg/L | 0.100 | | 98.3 | 80-120 | | | |
| Silver, total | 0.0971 | 0.0040 | mg/L | 0.100 | | 97.1 | 80-120 | | | |
| Thallium, total | 0.0969 | 0.0020 | mg/L | 0.100 | | 96.9 | 80-120 | | | |
| Tin, total | 0.0972 | 0.0200 | mg/L | 0.100 | | 97.2 | 80-120 | | | |
| Vanadium, total | 0.0976 | 0.0200 | mg/L | 0.100 | | 97.6 | 80-120 | | | |
| Zinc, total | 0.101 | 0.0200 | mg/L | 0.100 | | 101 | 80-120 | | | |
| **Matrix Spike (1HD0843-MS1)** | **Source: 1HD0949-01** | | | Prepared: 04/12/24 16:25 Analyzed: 04/15/24 21:50 | | | | | | |
| Antimony, total | 0.0944 | 0.0020 | mg/L | 0.100 | ND | 94.4 | 75-125 | | | |
| Arsenic, total | 0.0990 | 0.0040 | mg/L | 0.100 | 0.0020 | 97.0 | 75-125 | | | |
| Barium, total | 0.195 | 0.0040 | mg/L | 0.100 | 0.0868 | 108 | 75-125 | | | |
| Beryllium, total | 0.0897 | 0.0040 | mg/L | 0.100 | ND | 89.7 | 75-125 | | | |
| Cadmium, total | 0.0935 | 0.0008 | mg/L | 0.100 | ND | 93.5 | 75-125 | | | |
| Chromium, total | 0.0908 | 0.0080 | mg/L | 0.100 | 0.0009 | 89.9 | 75-125 | | | |
| Cobalt, total | 0.0983 | 0.0004 | mg/L | 0.100 | ND | 98.3 | 75-125 | | | |
| Copper, total | 0.0931 | 0.0040 | mg/L | 0.100 | ND | 93.1 | 75-125 | | | |
| Lead, total | 0.0923 | 0.0040 | mg/L | 0.100 | ND | 92.3 | 75-125 | | | |
| Nickel, total | 0.0947 | 0.0040 | mg/L | 0.100 | ND | 94.7 | 75-125 | | | |
| Selenium, total | 0.0976 | 0.0040 | mg/L | 0.100 | ND | 97.6 | 75-125 | | | |
| Silver, total | 0.0940 | 0.0040 | mg/L | 0.100 | ND | 94.0 | 75-125 | | | |
| Thallium, total | 0.0933 | 0.0020 | mg/L | 0.100 | ND | 93.3 | 75-125 | | | |
| Tin, total | 0.0943 | 0.0200 | mg/L | 0.100 | ND | 94.3 | 75-125 | | | |
| Vanadium, total | 0.100 | 0.0200 | mg/L | 0.100 | ND | 100 | 75-125 | | | |
| Zinc, total | 0.0996 | 0.0200 | mg/L | 0.100 | ND | 99.6 | 75-125 | | | |
| **Matrix Spike Dup (1HD0843-MSD1)** | **Source: 1HD0949-01** | | | Prepared: 04/12/24 16:25 Analyzed: 04/15/24 21:56 | | | | | | |

| Determination of Total Metals | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 1HD0843 - EPA 3005A Total Recoverable Metals - EPA 6020A** | | | | | | | | | | |
| **Matrix Spike Dup (1HD0843-MSD1)** | **Source: 1HD0949-01** | | Prepared: 04/12/24 16:25 Analyzed: 04/15/24 21:56 | | | | | | | |
| Antimony, total | 0.0968 | 0.0020 | mg/L | 0.100 | ND | 96.8 | 75-125 | 2.51 | 20 | |
| Arsenic, total | 0.0979 | 0.0040 | mg/L | 0.100 | 0.0020 | 95.9 | 75-125 | 1.11 | 20 | |
| Barium, total | 0.199 | 0.0040 | mg/L | 0.100 | 0.0868 | 112 | 75-125 | 2.19 | 20 | |
| Beryllium, total | 0.0947 | 0.0040 | mg/L | 0.100 | ND | 94.7 | 75-125 | 5.48 | 20 | |
| Cadmium, total | 0.0952 | 0.0008 | mg/L | 0.100 | ND | 95.2 | 75-125 | 1.85 | 20 | |
| Chromium, total | 0.0921 | 0.0080 | mg/L | 0.100 | 0.0009 | 91.3 | 75-125 | 1.44 | 20 | |
| Cobalt, total | 0.0980 | 0.0004 | mg/L | 0.100 | ND | 98.0 | 75-125 | 0.352 | 20 | |
| Copper, total | 0.0924 | 0.0040 | mg/L | 0.100 | ND | 92.4 | 75-125 | 0.755 | 20 | |
| Lead, total | 0.0954 | 0.0040 | mg/L | 0.100 | ND | 95.4 | 75-125 | 3.23 | 20 | |
| Nickel, total | 0.0944 | 0.0040 | mg/L | 0.100 | ND | 94.4 | 75-125 | 0.309 | 20 | |
| Selenium, total | 0.0936 | 0.0040 | mg/L | 0.100 | ND | 93.6 | 75-125 | 4.23 | 20 | |
| Silver, total | 0.0967 | 0.0040 | mg/L | 0.100 | ND | 96.7 | 75-125 | 2.82 | 20 | |
| Thallium, total | 0.0959 | 0.0020 | mg/L | 0.100 | ND | 95.9 | 75-125 | 2.80 | 20 | |
| Tin, total | 0.0982 | 0.0200 | mg/L | 0.100 | ND | 98.2 | 75-125 | 4.05 | 20 | |
| Vanadium, total | 0.102 | 0.0200 | mg/L | 0.100 | ND | 102 | 75-125 | 1.78 | 20 | |
| Zinc, total | 0.0958 | 0.0200 | mg/L | 0.100 | ND | 95.8 | 75-125 | 3.91 | 20 | |
| **Post Spike (1HD0843-PS1)** | **Source: 1HD0949-01** | | Prepared: 04/12/24 16:25 Analyzed: 04/15/24 22:02 | | | | | | | |
| Antimony, total | 0.0766 | | mg/L | 0.0800 | 0.00005 | 95.6 | 80-120 | | | |
| Arsenic, total | 0.0787 | | mg/L | 0.0800 | 0.0020 | 95.8 | 80-120 | | | |
| Barium, total | 0.171 | | mg/L | 0.0800 | 0.0851 | 108 | 80-120 | | | |
| Beryllium, total | 0.0763 | | mg/L | 0.0800 | 0.000003 | 95.3 | 80-120 | | | |
| Cadmium, total | 0.0757 | | mg/L | 0.0800 | -0.0001 | 94.6 | 80-120 | | | |
| Chromium, total | 0.0745 | | mg/L | 0.0800 | 0.0008 | 92.1 | 80-120 | | | |
| Cobalt, total | 0.0784 | | mg/L | 0.0800 | 0.00006 | 97.9 | 80-120 | | | |
| Copper, total | 0.0742 | | mg/L | 0.0800 | 0.0005 | 92.1 | 80-120 | | | |
| Lead, total | 0.0763 | | mg/L | 0.0800 | 0.00009 | 95.3 | 80-120 | | | |
| Nickel, total | 0.0759 | | mg/L | 0.0800 | 0.0002 | 94.6 | 80-120 | | | |
| Selenium, total | 0.0763 | | mg/L | 0.0800 | 0.0002 | 95.1 | 80-120 | | | |
| Silver, total | 0.0772 | | mg/L | 0.0800 | 0.0002 | 96.2 | 80-120 | | | |
| Thallium, total | 0.0773 | | mg/L | 0.0800 | -0.000007 | 96.6 | 80-120 | | | |
| Tin, total | 0.0793 | | mg/L | 0.0800 | 0.00006 | 99.0 | 75-125 | | | |
| Vanadium, total | 0.0851 | | mg/L | 0.0800 | 0.0098 | 94.1 | 80-120 | | | |
| Zinc, total | 0.0747 | | mg/L | 0.0800 | -0.0012 | 93.4 | 80-120 | | | |
| **Batch 1HD0991 - EPA 7470A Hg Water - EPA 7470A** | | | | | | | | | | |
| **Blank (1HD0991-BLK1)** | | | Prepared: 04/16/24 13:40 Analyzed: 04/17/24 16:17 | | | | | | | |
| Mercury, total | <0.00050 | 0.00050 | mg/L | | | | | | | |
| **LCS (1HD0991-BS1)** | | | Prepared: 04/16/24 13:40 Analyzed: 04/17/24 16:19 | | | | | | | |
| Mercury, total | 0.00247 | 0.00050 | mg/L | 0.00250 | | 98.7 | 80-120 | | | |
| **Matrix Spike (1HD0991-MS1)** | **Source: 1HD0953-07** | | Prepared: 04/16/24 13:40 Analyzed: 04/17/24 16:23 | | | | | | | |
| Mercury, total | 0.00248 | 0.00050 | mg/L | 0.00250 | ND | 99.2 | 75-125 | | | |
| **Matrix Spike Dup (1HD0991-MSD1)** | **Source: 1HD0953-07** | | Prepared: 04/16/24 13:40 Analyzed: 04/17/24 16:26 | | | | | | | |

| Determination of Total Metals | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 1HD0991 - EPA 7470A Hg Water - EPA 7470A** | | | | | | | | | | |
| **Matrix Spike Dup (1HD0991-MSD1)** | **Source: 1HD0953-07** | Prepared: 04/16/24 13:40 Analyzed: 04/17/24 16:26 | | | | | | | | |
| Mercury, total | 0.00243 | 0.00050 | mg/L | 0.00250 | ND | 97.3 | 75-125 | 1.96 | 20 | |

**Definitions**

| | |
|---|---|
| **A-01:** | Surrogate not added to batch blank. |
| **QM-18:** | LCS/LCSD were analyzed in place of MS/MSD due to instrument malfunction. |
| **QR-02:** | The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data. |
| **QS-02:** | The spike recovery for this QC sample exceeded established acceptance limits. However, all samples were below the reporting and/or regulatory limit so the data is acceptable. |
| **RL:** | Reporting Limit |
| **RPD:** | Relative Percent Difference |
| **S-07:** | The surrogate recovery for this sample is outside of established control limits. |

**Cooler Receipt Log**

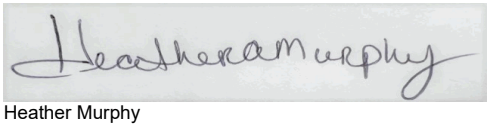
**Cooler ID:** Default Cooler Temp: 0.6°C

**Cooler Inspection Checklist**

| | | | |
|---|---|---|---|
| Custody Seals | No | Containers Intact | Yes |
| COC/Labels Agree | Yes | Preservation Confirmed | No |
| Received On Ice | Yes | | |

**Report Comments**

**Reviewed and Approved By:**



Heather Murphy
Customer Relationship Specialist
heather.murphy@microbac.com
05/03/24 08:15

# CHAIN OF CU

Keystone LABORATORIES
A Microbac Company
600 East 17th Street Sou
Newton, IA 50208
641-792-9451

1HD0953
HLW Engineering
PM: Heather Murphy



**SITE INFORMATION**

Sampler: Todd Whipple

Project: Bremer Co. Landfill - New Regs 6035

**REPORT TO**

Todd Whipple
HLW Engineering
PO Box 314
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**

Work Order 1HD0953
Temperature 0.6
Turn-Cooler: No

☐ Custody Seal
☐ Containers Intact
☐ COC/Labels Agree
☐ Preservation Confirmed
☐ Received on Ice

| Number | Sample Identification / Client ID | Matrix | Sample Type | Date | Time | Number of Containers | Analyses | | Lab Sample Number |
|---|---|---|---|---|---|---|---|---|---|
| -001 | MW-1 | Water | GRAB | 4/9/24 | 9:59 | 7 | lndfill-app1-voc-group | lndfll-app1-metals-6020 | 01 |
| -001 | MW-2A | Water | GRAB | 4/9/24 | 10:18 | 7 | lndfill-app1-voc-group | lndfll-app1-metals-6020 | 02 |
| -001 | MW-3 | Water | GRAB | 4/9/24 | 11:00 | 7 | lndfill-app1-voc-group | lndfll-app1-metals-6020 | 03 |
| -001 | MW-4 | Water | GRAB | 4/9/24 | 10:43 | 7 | lndfill-app1-voc-group | lndfll-app1-metals-6020 | 04 |
| -001 | MW-105B | Water | GRAB | 4/9/24 | 11:18 | 7 | lndfill-app1-voc-group | lndfll-app1-metals-6020 | 05 |
| -001 | MW-108A | Water | GRAB | 4/9/24 | 11:35 | 7 | lndfill-app1-voc-group | lndfll-app1-metals-6020 | 06 |
| -001 | MW-110A | Water | GRAB | 4/9/24 | 11:54 | 17 | lndfll-app2-inorg-6020 | lndfll-app2-org | 07 |

Relinquished By Todd Whipple Date/Time 4/10/24

Received By Date/Time

Relinquished By Date/Time

Received for Lab By Mahn 4/10/24 Date/Time 10:08

Remarks:

Original - Lab Copy Yellow - Sampler Copy

# CHAIN OF

Keystone LABORATORIES
A Microbac Company

600 East 17th Street S
Newton, IA 50208
641-792-8451

1HD0953

HLW Engineering
PM: Heather Murphy



## SITE INFORMATION

Sampler: TODD WHIPPLE

Project: Bremer Co. Landfill - New Regs 6035

## REPORT TO

Todd Whipple
HLW Engineering
PO Box 314
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

Work Order 1HD0953
Temperature 0.6
Turn-Cooler: No

☐ Custody Seal
☐ Containers Intact
☐ COC/Labels Agree
☐ Preservation Confirmed
☐ Received on Ice

| Number | Sample Identification / Client ID | Matrix | Sample Type | Date | Time | Number of Containers | Analyses | Lab Sample Number |
|---|---|---|---|---|---|---|---|---|
| -001 | Duplicate | Water | GRAB | 4/9/24 | ✓ | 1 | lndfill-app1-voc-group lndfll-app1-metals-6020 | 08 |

Relinquished By Date/Time 4/10/24

Received By Date/Time

Relinquished By Date/Time

Received for Lab By Mark Date/Time 4/10/24 10:08

Remarks:

Original - Lab Copy Yellow - Sampler Copy

Microbac Laboratories, Inc., Newton

# CERTIFICATE OF ANALYSIS

1HF1081

Project Description

6035

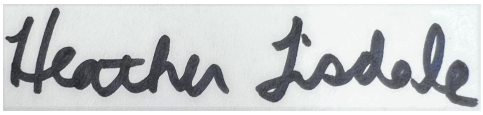
For:

Todd Whipple

**HLW Engineering**

PO Box 314

Story City, IA 50248



Heather Tisdale

Customer Relationship Specialist

Friday, June 21, 2024

Please find enclosed the analytical results for the samples you submitted to Microbac Laboratories. Review and compilation of your report was completed by Microbac Laboratories, Inc., Newton. If you have any questions, comments, or require further assistance regarding this report, please contact your service representative listed above.

I certify that all test results meet all of the requirements of the accrediting authority listed within this report. Analytical results are reported on a 'as received' basis unless specified otherwise. Analytical results for solids with units ending in (dry) are reported on a dry weight basis. A statement of uncertainty for each analysis is available upon request. This laboratory report shall not be reproduced, except in full, without the written approval of Microbac Laboratories. The reported results are related only to the samples analyzed as received.

MICROBAC®

Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

1HF1081

**HLW Engineering**

Todd Whipple
PO Box 314
Story City, IA 50248

**Project Name: 6035**

Project / PO Number: N/A
Received: 06/14/2024
Reported: 06/21/2024

**Sample Summary Report**

| Sample Name | Laboratory ID | Client Matrix | Sample Type | Sample Begin | Sample Taken | Lab Received |
|---|---|---|---|---|---|---|
| MW-1 | 1HF1081-01 | Aqueous | GRAB | | 06/13/24 00:00 | 06/14/24 10:58 |

**Analytical Testing Parameters**

| | | | |
|---|---|---|---|
| **Client Sample ID:** | MW-1 | | |
| **Sample Matrix:** | Aqueous | **Collected By:** | |
| **Lab Sample ID:** | 1HF1081-01 | **Collection Date:** | 06/13/2024 |

| Determination of Volatile Organic Compounds | Result | RL | Units | DF | Note | Prepared | Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|
| **EPA 5030B/EPA 8260B** | | | | | | | | |
| Chloromethane | <1.0 | 1.0 | ug/L | 1 | | 06/20/24 0000 | 06/20/24 1427 | LNH |
| Surrogate: Dibromofluoromethane | 85.9 | Limit: 80-126 | % Rec | 1 | | 06/20/24 0000 | 06/20/24 1427 | LNH |
| Surrogate: Dibromofluoromethane | 85.9 | Limit: 80-126 | % Rec | 1 | | 06/20/24 0000 | 06/20/24 1427 | LNH |
| Surrogate: 1,2-Dichloroethane-d4 | 88.2 | Limit: 63-138 | % Rec | 1 | | 06/20/24 0000 | 06/20/24 1427 | LNH |
| Surrogate: 1,2-Dichloroethane-d4 | 88.2 | Limit: 63-138 | % Rec | 1 | | 06/20/24 0000 | 06/20/24 1427 | LNH |
| Surrogate: Toluene-d8 | 97.6 | Limit: 87-116 | % Rec | 1 | | 06/20/24 0000 | 06/20/24 1427 | LNH |
| Surrogate: Toluene-d8 | 97.6 | Limit: 87-116 | % Rec | 1 | | 06/20/24 0000 | 06/20/24 1427 | LNH |
| Surrogate: 4-Bromofluorobenzene | 97.0 | Limit: 85-111 | % Rec | 1 | | 06/20/24 0000 | 06/20/24 1427 | LNH |
| Surrogate: 4-Bromofluorobenzene | 97.0 | Limit: 85-111 | % Rec | 1 | | 06/20/24 0000 | 06/20/24 1427 | LNH |

**Batch Log Summary**

| Method | Batch | Laboratory ID | Client / Source ID |
|---|---|---|---|
| EPA 8260B | 1HF1094 | 1HF1094-BS1 | |
| | | 1HF1094-BSD1 | |
| | | 1HF1094-BLK1 | |
| | | 1HF1081-01 | MW-1 |
| | | 1HF1094-MS1 | 1HF1081-01 |
| | | 1HF1094-MSD1 | 1HF1081-01 |

**Batch Quality Control Summary: Microbac Laboratories, Inc., Newton**

| Determination of Volatile Organic Compounds | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 1HF1094 - EPA 5030B - EPA 8260B** | | | | | | | | | | |
| **Blank (1HF1094-BLK1)** | | | Prepared: 06/20/24 00:00 Analyzed: 06/20/24 10:46 | | | | | | | |
| Chloromethane | <1.0 | 1.0 | ug/L | | | | | | | |
| *Surrogate: Dibromofluoromethane* | *43.0* | | ug/L | *50.2* | | *85.7* | *80-126* | | | |
| *Surrogate: Dibromofluoromethane* | *43.0* | | ug/L | *50.2* | | *85.7* | *80-126* | | | |
| *Surrogate: 1,2-Dichloroethane-d4* | *43.9* | | ug/L | *50.1* | | *87.7* | *63-138* | | | |
| *Surrogate: 1,2-Dichloroethane-d4* | *43.9* | | ug/L | *50.1* | | *87.7* | *63-138* | | | |
| *Surrogate: Toluene-d8* | *48.9* | | ug/L | *50.4* | | *97.1* | *87-116* | | | |
| *Surrogate: Toluene-d8* | *48.9* | | ug/L | *50.4* | | *97.1* | *87-116* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *49.0* | | ug/L | *50.1* | | *97.7* | *85-111* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *49.0* | | ug/L | *50.1* | | *97.7* | *85-111* | | | |
| **LCS (1HF1094-BS1)** | | | Prepared: 06/20/24 00:00 Analyzed: 06/20/24 09:39 | | | | | | | |
| Chloromethane | 35.20 | 1.0 | ug/L | 30.6 | | 115 | 56-152 | | | |
| *Surrogate: Dibromofluoromethane* | *43.0* | | ug/L | *50.2* | | *85.7* | *80-126* | | | |
| *Surrogate: Dibromofluoromethane* | *43.0* | | ug/L | *50.2* | | *85.7* | *80-126* | | | |
| *Surrogate: 1,2-Dichloroethane-d4* | *42.4* | | ug/L | *50.1* | | *84.7* | *63-138* | | | |
| *Surrogate: 1,2-Dichloroethane-d4* | *42.4* | | ug/L | *50.1* | | *84.7* | *63-138* | | | |
| *Surrogate: Toluene-d8* | *49.3* | | ug/L | *50.4* | | *97.9* | *87-116* | | | |
| *Surrogate: Toluene-d8* | *49.3* | | ug/L | *50.4* | | *97.9* | *87-116* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *49.9* | | ug/L | *50.1* | | *99.5* | *85-111* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *49.9* | | ug/L | *50.1* | | *99.5* | *85-111* | | | |
| **LCS Dup (1HF1094-BSD1)** | | | Prepared: 06/20/24 00:00 Analyzed: 06/20/24 10:01 | | | | | | | |
| Chloromethane | 33.10 | 1.0 | ug/L | 30.6 | | 108 | 56-152 | 6.15 | 30 | |
| *Surrogate: Dibromofluoromethane* | *42.9* | | ug/L | *50.2* | | *85.5* | *80-126* | | | |
| *Surrogate: Dibromofluoromethane* | *42.9* | | ug/L | *50.2* | | *85.5* | *80-126* | | | |
| *Surrogate: 1,2-Dichloroethane-d4* | *42.6* | | ug/L | *50.1* | | *85.1* | *63-138* | | | |
| *Surrogate: 1,2-Dichloroethane-d4* | *42.6* | | ug/L | *50.1* | | *85.1* | *63-138* | | | |
| *Surrogate: Toluene-d8* | *49.3* | | ug/L | *50.4* | | *97.8* | *87-116* | | | |
| *Surrogate: Toluene-d8* | *49.3* | | ug/L | *50.4* | | *97.8* | *87-116* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *49.7* | | ug/L | *50.1* | | *99.2* | *85-111* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *49.7* | | ug/L | *50.1* | | *99.2* | *85-111* | | | |
| **Matrix Spike (1HF1094-MS1)** | **Source: 1HF1081-01** | | Prepared: 06/20/24 00:00 Analyzed: 06/20/24 15:14 | | | | | | | |

| Determination of Volatile Organic Compounds | Result | RL | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 1HF1094 - EPA 5030B - EPA 8260B** | | | | | | | | | | |
| **Matrix Spike (1HF1094-MS1)** | **Source: 1HF1081-01** | | Prepared: 06/20/24 00:00 Analyzed: 06/20/24 15:14 | | | | | | | |
| Chloromethane | 345.0 | 10.0 | ug/L | 306 | ND | 113 | 49-154 | | | |
| *Surrogate: Dibromofluoromethane* | *426* | | ug/L | *502* | | *84.9* | *80-126* | | | |
| *Surrogate: Dibromofluoromethane* | *426* | | ug/L | *502* | | *84.9* | *80-126* | | | |
| *Surrogate: 1,2-Dichloroethane-d4* | *423* | | ug/L | *501* | | *84.5* | *63-138* | | | |
| *Surrogate: 1,2-Dichloroethane-d4* | *423* | | ug/L | *501* | | *84.5* | *63-138* | | | |
| *Surrogate: Toluene-d8* | *495* | | ug/L | *504* | | *98.3* | *87-116* | | | |
| *Surrogate: Toluene-d8* | *495* | | ug/L | *504* | | *98.3* | *87-116* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *502* | | ug/L | *501* | | *100* | *85-111* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *502* | | ug/L | *501* | | *100* | *85-111* | | | |
| **Matrix Spike Dup (1HF1094-MSD1)** | **Source: 1HF1081-01** | | Prepared: 06/20/24 00:00 Analyzed: 06/20/24 15:36 | | | | | | | |
| Chloromethane | 327.0 | 10.0 | ug/L | 306 | ND | 107 | 49-154 | 5.36 | 25 | |
| *Surrogate: Dibromofluoromethane* | *427* | | ug/L | *502* | | *85.0* | *80-126* | | | |
| *Surrogate: Dibromofluoromethane* | *427* | | ug/L | *502* | | *85.0* | *80-126* | | | |
| *Surrogate: 1,2-Dichloroethane-d4* | *420* | | ug/L | *501* | | *83.9* | *63-138* | | | |
| *Surrogate: 1,2-Dichloroethane-d4* | *420* | | ug/L | *501* | | *83.9* | *63-138* | | | |
| *Surrogate: Toluene-d8* | *494* | | ug/L | *504* | | *98.1* | *87-116* | | | |
| *Surrogate: Toluene-d8* | *494* | | ug/L | *504* | | *98.1* | *87-116* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *504* | | ug/L | *501* | | *101* | *85-111* | | | |
| *Surrogate: 4-Bromofluorobenzene* | *504* | | ug/L | *501* | | *101* | *85-111* | | | |

### Definitions

**RL:** Reporting Limit
**RPD:** Relative Percent Difference

### Cooler Receipt Log

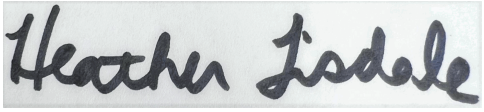
**Cooler ID:** Default Cooler Temp: 0.0°C

### Cooler Inspection Checklist

| | | | |
|---|---|---|---|
| Custody Seals | No | Containers Intact | Yes |
| COC/Labels Agree | Yes | Preservation Confirmed | No |
| Received On Ice | Yes | | |

### Report Comments

**Reviewed and Approved By:**



Heather Tisdale
Customer Relationship Specialist
06/21/24 16:07

# CHAIN OF CUSTODY RECORD

Keystone LABORATORIES, INC.

600 E. 17th St. S.
Newton, IA 50208
Phone: 641-792-8451
Fax: 641-792-7989

205 E VanBuren St
Centerville, IA 52544
Phone: 641-437-7023
Fax: 641-437-7040

1HF1081
HLW Engineering
PM: Heather Murphy

PAGE 1 OF 1

**PRINT OR TYPE INFORMATION BELOW**

SAMPLER: TODD WHIPPLE
SITE NAME: Bremer Co SLF
ADDRESS:
CITY/ST/ZIP:
PHONE:

**REPORT TO:**

NAME: TODD WHIPPLE
COMPANY NAME: HLW Group LLC
ADDRESS: P.O. Box 314
CITY/ST/ZIP: STORY CITY IA 50248
PHONE: 515 733 4144
FAX: 4146

**BILL TO:**

NAME: Corey Cerwinske, Chair
COMPANY NAME: Bremer Co BOARD of Sup.
ADDRESS: 415 EAST Bremer Ave
CITY/ST/ZIP: Waverly IA 50677
PHONE:

Keystone Quote No: (If Applicable)

| CLIENT SAMPLE NUMBER | DATE | TIME | SAMPLE LOCATION | NO. OF CONTAINERS | MATRIX | GRAB/COMPOSITE | ANALYSES REQUIRED: Chloromethane | LAB USE ONLY: SAMPLE CONDITION/COMMENTS | LABORATORY SAMPLE NUMBER |
|---|---|---|---|---|---|---|---|---|---|
| MW-1 | 6/13/24 | 9:35 | MW-1 | 3 | W | G | X | On ice | 01 |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

LABORATORY WORK ORDER NO.: 1HF1081

SAMPLE TEMPERATURE UPON RECEIPT: 0.0 °C

| Relinquished by: (Signature) | Date / Time | Received by: (Signature) | Date / Time | Turn-Around: ☐ Standard ☐ Rush (Contact Lab Prior to Submission) |
|---|---|---|---|---|
| Relinquished by: (Signature) | Date / Time | Received for Lab by: (Signature) | Date 6-14-24 / Time 10:58 | Remarks: |

Original - Lab Copy • Yellow - Sampler Copy

FORM: CCR 7-97

# 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 | 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 | 10/23/24 | 4/9/24 | Max | Min | Ave | Std Dev |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Well | NTU | NTU | NTU | NTU | NTU | NTU | NTU | NTU | NTU | NTU | NTU | NTU | NTU | NTU | 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 | 0.45 | 1.84 | 1.14 | | 1.33 | 1.46 | 1.25 | 1.51 | 1.26 | 1.12 | | 1.03 | 2.63 | 2.23 | 3.08 | 0.08 | 1.18 | 0.78 |
| 2A | 0.76 | 1.89 | 1.43 | 1.79 | 2.48 | | 0.56 | 1.53 | 1.46 | 1.05 | | 0.65 | 0.82 | 1.04 | 1.07 | | 1.21 | 1.77 | 1.51 | 1.82 | 2.31 | 1.98 | | 1.1 | 5.48 | 1.75 | 5.48 | 0.56 | 1.61 | 1.01 |
| 3 | 2.72 | 4.52 | 0.18 | | 0.22 | | 0.14 | 2.07 | 0.38 | 4.67 | | 2.19 | 0.43 | 0.91 | 0.79 | | 1.14 | 1.44 | 1.52 | 1.48 | 2.01 | 0.94 | 1.07 | 1.31 | 2.34 | 3.21 | 4.67 | 0.14 | 1.62 | 1.28 |
| 4 | 2.67 | 1.07 | 0.91 | | 0.12 | 0.3 | 0.19 | 4.5 | 0.4 | 0.98 | | 7.76 | 0.55 | 0.76 | 0.75 | | 1.43 | 1.2 | 1.44 | 1.18 | 2.14 | 0.63 | | 1.11 | 1.73 | 2.25 | 7.76 | 0.12 | 1.55 | 1.70 |
| 105B | 0.97 | --- | 1.74 | | 14.76 | 0.93 | 0.8 | 0.99 | 6.22 | 0.63 | 0.37 | 1.24 | 0.37 | 0.84 | 0.77 | 2.8 | 1.11 | 2.68 | 22.89 | 8.66 | 11.1 | 1.18 | | 0.93 | 1.92 | 1.7 | 22.89 | 0.37 | 3.72 | 5.62 |
| 108A | 4.8 | --- | 11.61 | | 10.7 | | 5.38 | 2.2 | 7.23 | 4.21 | 14.32 | 10.8 | 1.56 | 16.1 | 2.65 | | 4.09 | 2.89 | 15.63 | 12.7 | 3.7 | 3.91 | | 28.21 | 19.8 | 173.2 | 173.20 | 1.56 | 16.94 | 36.46 |
| 110A | 0.77 | --- | 4.41 | | 1.01 | | 1.64 | 5.15 | 6.02 | 2.09 | | 11.2 | 0.61 | 0.91 | 0.75 | | 18.98 | 2.82 | 9.85 | 11.78 | 1.43 | 2.93 | | 11.39 | 3.31 | 7.26 | 18.98 | 0.61 | 5.22 | 5.04 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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 | 1.56 | 16.10 | 2.65 | 2.80 | 2.65 | 2.89 | 2.65 | 12.70 | 2.65 | 3.91 | 1.07 | 2.65 | 19.80 | 173.20 | | | | |
| 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 | 0.37 | 0.76 | 0.75 | 2.80 | 0.75 | 1.20 | 0.75 | 1.18 | 0.75 | 0.63 | 1.07 | 0.75 | 1.73 | 1.70 | | | | |
| 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 | 0.55 | 0.91 | 0.79 | 2.80 | 0.79 | 1.77 | 0.79 | 1.82 | 0.79 | 1.18 | 1.07 | 0.79 | 2.63 | 2.25 | | | | |
| 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 | 0.68 | 3.20 | 1.13 | 2.80 | 1.13 | 2.04 | 1.13 | 5.59 | 1.13 | 1.81 | 1.07 | 1.13 | 5.32 | 27.37 | | | | |

# 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 | | |
| | | | |

# 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 |

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).*