

2025 ANNUAL WATER QUALITY REPORT

FOR THE BOONE COUNTY SANITARY LANDFILL 08-SDP-1-75P BOONE, IOWA

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Certification

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Section 1.0 Background Information

1.1 Report Priority

The review of this report is considered to be low priority.

Continued semi-annual detection monitoring, assessment monitoring, and corrective action monitoring is recommended in 2026 according to Table 1 and Table 2.

MW98-25 warrants evaluation again in 2026 as a Point of Compliance Corrective Action Monitoring Point for the purpose of evaluating the success of the Corrective Measures constructed on the north side of the facility.

Several additional recommendations are offered in Section 4.0 of this report.

1.2 Period of Report Coverage

Water quality data evaluation is based on a running compilation of data beginning in 2014. Statistical evaluations herein are based on the water quality data collected through September 9, 2025.

1.3 Current Site Map

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

1.4 Site Status and Applicable Rules

Site Location

The Boone County Sanitary Landfill is located in SE1/4 Section 6, T83N, R26W, Boone County, Iowa. The facility is situated southwest of Boone, Iowa. The facility operates under the Iowa Department of Natural Resources (IDNR) Permit Number 08-SDP-1-75P.

Landfill Layout

The site is situated in the uplands above the Des Moines River valley to the west and south. The Original Landfill is closed and is designated as Areas A, B, and C. RCRA Subtitle D Expansion Areas are designated Phase 1, 2, 3, 4-R, 5-R, 6-R, 7-R, and 8-R. Phases 4-R, 5-R, 6-R, 7-R, and 8-R are actively receiving waste from the planning area.

Applicable Rules

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

1.5 Summary of Hydrologic Monitoring System Plan (HMSP)

The HMSP includes seventeen (17) monitoring wells, three (3) groundwater underdrains (GWD-1 (aka GU-1), GU-3, and GU-4), one groundwater collection trench outfall (SRAMP 1), and two (2) passive engineered conveyance system outfalls (SRAMP 2 & PECS-3). MW88-2, MW91-8, MW02-15A, MW98-28, and MW02-30A are the designated background/upgradient wells for the facility.

The Site Plan, the HMSP monitoring network, and the GMSP monitoring network are illustrated on Figure 1. The Water Table Contour Map is included as Figure 2. Details of the North Side Corrective Action Plan are illustrated in Figure 3.

The current HMSP is summarized in Table 1. The HMSP Implementation Schedule for 2026 is itemized in 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.

Monitoring Well Performance Evaluation Reports dated June 19, 1996, March 5, 2001, and April 7, 2006 were prepared and submitted in accordance with previous rules (prior to 2007). The 2006 Report concluded that the integrity of all MW's was intact, and that no changes in the HMSP were recommended. Since 2007, monitoring well reevaluation has been performed in accordance with IAC 567-113.10(2)"f."

2025 Water elevation data is summarized in Table 4, while an ongoing summary of the semi-annual water elevation data is included as Table 4A. Review of the water elevation data for 2025 does not indicate excessive variability compared to historic water elevation data. A Groundwater Contour Map dated September, 2025 is included in the body of this report as Figure 2. The Groundwater Contour Map illustrates the water table surface and the effects of the groundwater diversion system in Phase 4-R/5-R/6-R/7-R/8-R Expansion Areas.

High & Low Water Levels

The water elevation data summarized in Table 4A includes calculation of the average water elevation at each monitoring well and identifies both the maximum and minimum recorded water elevation at each monitoring well.

Well Recharge Rates & Chemistry

Monitoring well recharge reevaluation is due biennially according to 113.10(2)f. and was performed March 12, 2024. Wells were pumped on March 12, 2024 and well recovery data was recorded during recharge. Review of the recovery data indicate that the wells recover to 90%, or more, within a 12 to 24-hour period following pumping activities. This is unchanged over time.

Well Depth & Sedimentation

The sedimentation in each well is recorded to be 1.0 ft or less based on well depth measurements, with the following exceptions:

<u>Well</u>	<u>Feet of Sediment 9/9/2025</u>
MW96-21	1.60
MW96-23	1.59
MW96-24	3.22
MW98-28	3.47

Summary

Based on the information reviewed herein, it is our interpretation that the integrity of all existing monitoring wells is intact and that the semi-annual water elevation data is sufficient to adequately monitor the hydrologic condition of the site.

Section 2.0 Reporting Period Monitoring Activities

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

Field sampling information for March 24, 2025; July 8, 2025; and September 9, 2025 sampling episodes is included on the field forms (IDNR Form 542-1322) in Appendix A.

A comprehensive summary of Analytical Data for the episodes between September 18, 2014 and September 9, 2025 is included on Table 9.

2.1 Current Detection Monitoring Activities

Background wells MW88-2, MW91-8, MW02-15A, MW98-28, and MW02-30A and downgradient monitoring wells MW94-18, MW09-40, MW91-10, MW96-23, MW96-24, MW88-3, GWD-1 (GU-1), and UD-4 (GU-4) remain in detection monitoring (sampled for Appendix I).

2.2 Current Assessment Monitoring Activities

Monitoring well MW96-21 is included in the assessment monitoring program due to a historic (3/17/2017) cobalt exceedance at MW96-21. MW96-21 has been retained in the assessment monitoring program.

2.3 Current Corrective Action Monitoring Activities

The detected concentrations in MW98-25 historically exceeded groundwater protection standards and resulted in construction of the groundwater collection trench along the north side of the site and installation of two (2) leachate extraction wells in the closed landfill (Figure 3). Additionally, step-out Corrective Action monitoring wells MW06-37, MW06-38, and MW06-39 were installed to monitor the effectiveness of the remedial system. SRAMP 1 (the collection tile outlet into the PECS), SRAMP-2 (PECS outlet), GU-3, PECS-3 (PECS outlet), MW98-25, MW06-37, MW06-38, and MW06-39 are designated as Corrective Action monitoring points.

Discharge to the Passive Engineered Conveyance System below SRAMP-1 was approved by IDNR in Permit Amendment #8 dated October 28, 2013.

Based on the detected VOC at GU-3, this tile line discharge was placed in the Corrective Action Monitoring System and a Passive Engineered Conveyance System (PECS) below the discharge end of GU-3 was constructed on December

29, 2021. Record information for the PECS was submitted to IDNR on May 5, 2022 (Doc #103162). Approval of the PECS and inclusion of the PECS sampling point PECS-3 was approved by IDNR in the Permit Revision (Special Provision X.4.u) on May 17, 2022 (Doc #103223).

Nickel at GU-3 (23.5 ug/L) exceeded the prediction limit based on the background monitoring wells (17.4 ug/L) on December 9, 2024. Across Iowa it has been demonstrated that groundwater underdrain discharges from underdrain systems where mass excavations have occurred may not be suitable for comparison to a prediction limit based on water quality from a vertical background monitoring well located distant to the landfill waste boundaries. At numerous sites in Iowa, groundwater underdrains are evaluated by intrawell statistical evaluations in lieu of interwell statistical evaluations.

It is recommended that underdrain discharges (GU-1 (aka GWD-1), GU-3, and GU-4) at this site be evaluated by intrawell statistical evaluations moving forward.

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

The Analytical Reports for the laboratory testing on samples collected March 24, 2025; July 8, 2025; and September 9, 2025 are included in Appendix C.

QUALITY ASSURANCE/QUALITY CONTROL

A blind duplicate sample was collected at MW91-10 during the March 24, 2025 sampling episode. A blind duplicate was collected at MW98-25 during the September 9, 2025, sampling episode.

The purpose of the field duplicate is to evaluate the precision of sample collection and analysis process from the field through the laboratory. The calculation of the Relative Percent Difference (RPD) for duplicate pair results is used as the means to evaluate the precision.

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

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

The results of the blind duplicate and the monitoring well results (both the March 24, 2025 and September 9, 2025) are within the limits established and indicate that the data quality is acceptable without restriction.

BACKGROUND DATA VALIDATION

On July 10, 2014, an unnumbered Permit Amendment and Memo was issued by the IDNR regarding turbidity (Doc # 80724). A TSS and Field Turbidity Evaluation Report was prepared and submitted on February 25, 2015 (Doc# 82549). The submitted TSS and Field Turbidity Evaluation Report includes a requirement to evaluate and sort data within the background data pool and retain only data that is validated as appropriate based on TSS/field turbidity values. A summary of field measured turbidity is included in Appendix D.

The background data utilized herein has been restricted to include only sample results that have been collected by “No Purge” methods (samples collected since September 18, 2014) in order to remove any data that may have had turbidity related issues associated with historic sample collection methods.

Upgradient Data, Table 1, Attachment B, to both the Spring and Fall Statistical Evaluation Reports (Appendix B.1 and B.2) includes a summary of the background data.

The site prediction limits established in the October, 2025 Statistical Evaluation Report (Appendix B.2) are the most recent and are based on the validated background. Any water quality results tagged with an asterisk is a statistical outlier and is excluded from use in calculating the Prediction Limits. The calculated Prediction Limits are summarized on Table 5.

SITE SPECIFIC GWPS

Review of the information included on Table 5 indicates that the prediction limit for arsenic (50.6 ug/L), for cobalt (7.0 ug/L), and for vanadium (40.6 ug/L) exceed the published IAC 567, Chapter 137 Statewide Standard (10.0 ug/L; 2.1 ug/L; and 35.0 ug/L, respectively).

The Site-Specific GWPS should not be set lower than the Site Prediction Limit calculated from the site background data. For this report, the prediction limits for arsenic (50.6 ug/L), for cobalt (7.0 ug/L), and for vanadium (40.6 ug/L) are utilized as the Site-Specific GWPS. For all other compounds the published IAC 567, Chapter 137 Statewide Standard are utilized as the GWPS.

STATISTICALLY SIGNIFICANT INCREASES (SSI)

The detected concentration of each compound is compared to the current site prediction limit for each respective compound calculated based on the background data set. A detected

concentration for a compound that is 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 Reporting Level, any VOC detection is recorded as an SSI. Table 6 is a summary of all compounds at site monitoring wells that have exceeded a *current* prediction limit in 2025.

Only assessment monitoring or corrective action monitoring wells had recorded exceedances of the prediction limit in 2025. Table 7 includes an on-going summary of compound detections that exceed the prediction limits (highlighted in light brown).

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

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

ASSESSMENT MONITORING SUMMARY

The dates of the full Appendix II sampling episodes completed at site monitoring wells are summarized in Table 1. A five-year frequency for Appendix II sample collection at MW96-21 began September, 2017 in accordance with Special Provision X.4.g of the February 12, 2014 Permit. 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.

During full Appendix II sampling events the compounds detected at MW96-21 are limited to those exclusive to the Appendix I list. There is no required on-going semi-annual assessment compounds required at MW96-21 beyond the Appendix I list in accordance with IAC 567-113.10(6)"d"2. The next full Appendix II sample collection at MW96-21 on the approved five (5) year schedule is due in March, 2029.

STATISTICALLY SIGNIFICANT LEVELS (SSL)

The detections that exceed site prediction limits (see summary in Tables 1 & 7) are utilized to calculate the Confidence Interval (the 95% lower confidence limits (LCL) and the 95% upper control limits (UCL)) in accordance with the 2009 Unified Guidance for Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities by US EPA. The 95% LCL values are compared to applicable GWPS. Any 95% LCL value that exceeds an applicable GWPS is recorded as an SSL. All wells with a recorded SSL require the plume of impact to be defined in the horizontal and vertical directions and require completion of an Assessment of Corrective Measures (ACM).

The SSL Evaluation for 2025 is based on data collected since September, 2014 and is included in Appendix D.5. The Confidence Intervals (95% LCL and 95% UCL) are calculated during each statistical evaluation based on the most recent four (4) data points. The Confidence Intervals below are restricted to the March, 2016 values and more recent. 95% LCL Values that exceed a

corresponding GWPS are highlighted in yellow in Table 7. Note that the brown highlights in Table 7 indicate compound detections that exceed the prediction limit (SSI).

Identified SSL at the site include:

MW98-25 - cobalt
GU-3 - benzene

The 95% LCL values for VOC compounds at corrective action monitoring well MW98-25 are below the Statewide Standards published in IAC 567, Chapter 137. The 95% LCL values for inorganic compounds at corrective action monitoring well MW98-25 are also below the GWPS, *with the exception of cobalt*. Since 2017 (March), the 95% LCL value for cobalt at MW98-25 has exceeded Site-Specific GWPS (7.0 ug/L) and represents an SSL at the site.

The impact to MW98-25 was delineated in 2006 and the corrective measure (SRAMP-1) was installed in 2008. The 95% LCL values for both inorganic compounds and VOC compounds at corrective action monitoring point SRAMP-1 are below the GWPS. MW98-25 is further evaluated in the sections that follow.

Corrective Action point GU-3 *does not* demonstrate 95% LCL values that exceed a GWPS with the exception of benzene (2025). As discussed previously, the discharge from GU-3 is remedied in the PECS constructed below GU-3.

The 95% LCL values for both inorganic compounds and VOC compounds at assessment monitoring well MW96-21 are below the applicable GWPS. The designation of MW96-21 as an assessment monitoring point is included in Table 1 (Section 1.0) and will be carried forward in 2026.

ASSESSMENT OF CORRECTIVE MEASURES

Assessment of Corrective Measures has not been required at this site to date.

The historic detected concentrations of compounds at MW98-25 exceeded groundwater protection standards and resulted in the construction of the groundwater collection trench along the north side of the site in 2008 and installation of two (2) leachate extraction wells in the closed landfill. Additionally, delineation wells and step-out corrective action monitoring wells (attenuation zone point of compliance (AZPOC) wells) MW06-37, MW06-38, and MW06-39 were installed to monitor the effectiveness of the remedial system. SRAMP 1 (the collection tile outlet), SRAMP-2 (the Passive Engineered Conveyance System outlet), MW98-25, MW06-37, MW06-38, and MW06-39 are designated as Corrective Action monitoring points.

Discharge to the Passive Engineered Conveyance System (SRAMP-2) was approved by IDNR in Permit Amendment #8 dated October 28, 2013. SRAMP-2 performed effectively as demonstrated in the section above.

Based on the recorded VOC SSI/SSL at GU-3 a passive engineered conveyance structure was constructed below the GU-3 discharge and the performance of the PECS is monitored at PECS-3. PECS-3 performed effectively in 2021, 2022, was submerged in 2023, and performed effectively in 2024, and 2025.

PASSIVE ENGINEERED CONVEYANCE SYSTEM PERFORMANCE

There are two (2) PECS in-place at this facility, SRAMP-2 and PECS-3. VOC analyses performed in 2025 at both PECS are summarized below:

SRAMP-2 Evaluation

Compounds (Historically Detected)	Detected at SRAMP-1		PECS Performance at SRAMP-2	
	Results 3/24/2025 (ug/L)	Results 9/9/2025 (ug/L)	Results 3/24/2025 (ug/L)	Results 9/9/2025 (ug/L)
1,1-dichloroethane	<1	Dry	<1	Dry
1,4-dichlorobenzene	9.1	Dry	<1	Dry
acetone	<10	Dry	<10	Dry
benzene	5.6	Dry	<1	Dry
chlorobenzene	2.4	Dry	<1	Dry
chloroethane	1.6	Dry	<1	Dry
cis-1,2-dichloroethylene	2.5	Dry	<1	Dry
dichlorofluoromethane	16.9	Dry	<1	Dry
ethylbenzene	<1	Dry	<1	Dry
trichlorofluoromethane	11.1	Dry	<1	Dry
vinyl chloride	<1	Dry	<1	Dry

PECS-3 Evaluation

Compounds (Historically Detected)	Detected at GU-3		PECS Performance at PECS-3		
	Results 3/24/2025 (ug/L)	Results 9/9/2025 (ug/L)	Results 3/24/2025 (ug/L)	Results 7/8/2025 (ug/L)	Results 9/9/2025 (ug/L)
1,1-dichloroethane	<1.0	Submerged	<1.0		Submerged
1,4-dichlorobenzene	1.1	Submerged	<1.0		Submerged
benzene	7.8	Submerged	<1.0		Submerged
chlorobenzene	1.6	Submerged	<1.0		Submerged
chloroethane	1.1	Submerged	<1.0		Submerged
cis-1,2-dichloroethylene	3.8	Submerged	1.4*	<1.0	Submerged
ethylbenzene	<1.0	Submerged	<1.0		Submerged
trichlorofluoromethane	<1.0	Submerged	<1.0		Submerged
vinyl chloride	1.4	Submerged	<1.0		Submerged
acetone	<10.0	Submerged	<10.0		Submerged
2-Butanone (MEK)	<10.0	Submerged	<10.0		Submerged
toluene	<1.0	Submerged	<1.0		Submerged

* Detection was not verified by 7/8/2025 re-sample.

VOC were undetected at the end of SRAMP #2 (the PECS) and demonstrate that SRAMP-2 is capable of remediating the VOC compounds detected at SRAMP-1 and that the PECS performed sufficiently in 2025.

The end of pipe at GU-3 and the PECS below GU-3 (PECS-3) were both submerged by water and/or sediment on September 9, 2025.

GU-3 was sampled on March 24, 2025. There were six (6) VOC compounds detected in GU-3 on March 24, 2025. On March 24, 2025, cis-1,2-dichloroethylene was detected in PECS-3 at a concentration slightly above detection. A resample was collected at PECS-3 on July 8, 2025 to verify the cis-1,2-dichloroethylene result reported for the March 24, 2025 sample. The cis-1,2-dichloroethylene was not detected in PECS-3 on July 8, 2025 (not verified) and indicates that the PECS is functioning properly.

CORRECTIVE MEASURES MONITORING SUMMARY

Full Appendix II assessment monitoring has been completed at corrective action monitoring points SRAMP 1 (2 episodes), MW98-25 (6 episodes), MW06-37 (3 episodes), MW06-38 (3 episodes), and MW06-39 (3 episodes). The full Appendix II sampling episode dates at each listed well are summarized in Table 1.

Full Appendix II assessment monitoring is performed in conformance with Special Provision X.4.e of the SDP Permit. The on-going semi-annual corrective action monitoring includes full Appendix I plus dichlorodifluoromethane at MW98-25, SRAMP -1 and SRAMP-2.

Corrective Action monitoring under IAC 567-113.10(9) includes no requirement for full Appendix II re-sampling, except at the point of compliance well (MW98-25, in this case).

The detected compounds in the full Appendix II list (beyond the Appendix I list) at corrective action monitoring points MW98-25, SRAMP #1, MW06-37, MW06-38, and MW06-39 are limited to dichlorodifluoromethane, bis(2-ethylhexyl) phthalate, beta (BHC), and some VOC. The tables in Appendix G summarize corrective action monitoring detections for Appendix II parameters beyond the Appendix I list. Full Appendix II sample collection events are highlighted in green in Appendix G.

CORRECTIVE MEASURES MONITORING EVALUATION

North Side

North Side Corrective Action Improvement System consists of an East-West groundwater collection line immediately north of the waste boundary. Figure 3 illustrates the extent of the groundwater collection line.

SRAMP#1 is the discharge from the actual corrective action collection pipe installed at or near the waste boundary, while MW98-25 is the Point of Compliance Corrective Action Monitoring Well located immediately downgradient of the remedy at the point of compliance.

As summarized in the tables above, VOC compounds are detected in the groundwater collection trench itself (SRAMP#1) and commonly in the point of compliance corrective action monitoring point (MW98-25) immediately adjacent and downgradient of the North Side Corrective Action

Improvement System. Verified VOC compounds have *not* been detected at the sentinel AZPOC points MW06-37, MW06-38, MW06-39, or in the PECS performance sampling point SRAMP #2, to date.

Review of the detected compounds at SRAMP #1 and MW98-25 indicate that the detected benzene and cobalt compounds have historically exceeded the GWPS at times. Concentrations that exceed the respective GWPS are highlighted in red text on the tables in Appendix H.

The detections *above* the Statewide Standard (Appendix H) are summarized as:

SRAMP #1

benzene (3/21, 3/23, 3/25)

cobalt (3/16, 9/16, 3/17, 3/19, 9/19)

MW98-25

cobalt (all 2016 to 2025)

Based on the recorded exceedances of the 95% lower confidence for cobalt at MW98-25, the cobalt SSL identified is further evaluated by review of the Confidence Limits (Appendix H). The Confidence Interval of Corrective Action Monitoring points are utilized to determine the success of the on-going Corrective Measures. A Corrective Action for a recorded SSL is complete when the 95% UCL value is below the applicable GWPS for a minimum of three (3) years.

The Corrective Action Monitoring Evaluation of the recorded SSL (cobalt at MW98-25) based on the 95% UCL Values is summarized below. The occurrences of the 95% UCL exceeding the GWPS are highlighted in green.

Monitoring Well	Compound	Date	Result (ug/L)	Prediction Limit (ug/L)	95% LCL (ug/L)	95% UCL (ug/L)	GWPS (ug/L)
MW98-25	Cobalt	3/16/16	4.7	1.5	0.000	26.390	4.4
MW98-25	Cobalt	9/8/16	29.1	1.5	0.000	26.390	4.4
MW98-25	Cobalt	3/17/17	14.6	1.5	3.420	27.280	4.4
MW98-25	Cobalt	9/19/17	6.2	4.4	0.495	26.805	4.4
MW98-25	Cobalt	3/8/18	10.3	4.8	3.317	26.783	4.8
MW98-25	Cobalt	9/24/18	11.6	4.8	6.576	14.774	4.8
MW98-25	Cobalt	3/25/19	13.9	4.8	6.701	14.299	4.8
MW98-25	Cobalt	9/3/19	8.5	4.8	8.402	13.748	4.8
MW98-25	Cobalt	3/23/20	22.2	3.2	7.149	20.951	3.2
MW98-25	Cobalt	9/4/20	7.6	3.2	5.164	20.936	3.2
MW98-25	Cobalt	3/9/21	11.7	3.2	4.617	20.383	3.2
MW98-25	Cobalt	9/7/21	12.8	3.2	6.317	20.833	3.2
MW98-25	Cobalt	3/28/22	10.9	5.8	8.115	13.385	5.8
MW98-25	Cobalt	9/14/22	19.4	7.0	9.137	18.263	7.0
MW98-25	Cobalt	3/20/23	11.2	7.0	8.903	18.247	7.0
MW98-25	Cobalt	9/12/23	15.2	7.0	9.473	18.877	7.0
MW98-25	Cobalt	3/12/24	10.7	7.0	9.358	18.892	7.0
MW98-25	Cobalt	9/30/24	11.0	7.0	9.523	14.527	7.0
MW98-25	Cobalt	3/24/25	8.7	7.0	8.187	14.613	7.0
MW98-25	Cobalt	9/9/25	12.3	7.0	8.924	12.426	7.0

Assessment statistics for the inorganic compounds at MW98-25 (Table above) indicate that the 95% UCL for cobalt remains above the GWPS indicating the remedy is not yet complete for cobalt. Note that the cobalt remain well within limits at MW06-37, MW06-38, and MW06-39 (the AZPOC wells to MW98-25).

There are no recorded SSL for VOC in the past 3 years in the north side collection system (SRAMP #2), indicating that the remedy is complete for VOC. Benzene remains undetected at SRAMP #2 which is the outfall of the approved Passive Engineered Conveyance System below SRAMP #1 and at MW06-37, MW06-38, or MW06-39, the Corrective Action Step-out Wells.

GU-3

Based on the detected VOC at GU-3, this tile line discharge was placed in the Corrective Action Monitoring System and a Passive Engineered Conveyance System (PECS) below the discharge end of GU-3 was constructed on December 29, 2021. Record information for the PECS was submitted to IDNR on May 5, 2022 (Doc #103162). Approval of the PECS and inclusion of the PECS sampling point PECS-3 was approved by IDNR in the Permit Revision (Special Provision X.4.u) on May 17, 2022 (Doc #103223).

The VOC detections *above* the Statewide Standard (Appendix F.1) are summarized as:

benzene (12/21, 3/22, 9/22, 9/24, 3/25)
vinyl chloride (12/21, 3/22)

The Corrective Action Monitoring Evaluation of the recorded VOC SSL (benzene at GU-3) is successful based on the removal of benzene (and all VOC) in the PECS-3.

Based on the nickel SSI at GU-3, the statistical evaluation of GU-3 is performed by intrawell statistical evaluations. This has been an accepted response in cases where the interwell statistical evaluations indicate the GU water quality exceeds the prediction limit but is well below the drinking water standard (100 ug/L).

2015 Additional Corrective Measures Feasibility Study

The Corrective Actions on the north side of the facility described as the Leachate Extraction/Groundwater Collection Project dated February 4, 2008 was accepted by IDNR on July 17, 2008.

On October 29, 2012, a North Side Corrective Action Improvement Plan was submitted to IDNR. This plan was approved by Permit Amendment #8, dated October 28, 2013. The Improvement Plan included the exploratory drilling within the northwest corner of the fill area (a former borrow area) in order to make a determination as to whether leachate extraction from this portion of the landfill would be beneficial. The findings were reported to IDNR May 12, 2015 (Doc# 83373) and additional leachate extraction was not recommended.

Section 4.0 Leachate Collection System Performance Evaluation

Leachate collected by the leachate collection system is hauled to the Boone Water Pollution Control Facility (WPCF) for treatment and disposal in accordance with the Industrial User Permit with the City of Boone (Appendix I.1).

Leachate Disposal at City of Boone Water Pollution Control Facility

Between January 1, 2025 and December 31, 2025 approximately 1,006,610 gallons of leachate (Appendix I.2) were transported and discharged to the Boone WPCF for treatment and disposal. Chemical analysis of the leachate as required by the Boone WPCF for 2025 (Appendix I.3) indicates that all of the parameters were within the limits established in the treatment agreements.

Leachate Recirculation

A Leachate Recirculation Operation Plan was submitted to IDNR on November 4, 2019 (Doc #96294) and leachate recirculation over Subtitle D composite lined disposal areas was approved in the November 22, 2019 SDP Permit revision. Permission to recirculate leachate was rescinded in the SDP Permit revision dated October 9, 2020 as a result of the Notice of Violation (NOV) from IDNR FO #5 dated July 20, 2020 (Doc #98131) the facility received for “General Surface Water Criteria”. It is anticipated that as operations continue in Phase 8-R a request will be submitted to IDNR to allow leachate recirculation over the Subtitle D composite lined disposal areas (Phases 7-R and 8-R) to resume.

Leachate Mixed with Posi-Shell

In 2025 staff reported that no leachate was mixed with Posi-Shell for use as Alternative Daily Cover.

Leachate Elevation Measurements

2025 Leachate elevation data is summarized in the tables presented in Appendix I.4.

Special Provision X.4.i.2 of the SDP Permit formerly required the submittal of quarterly reports summarizing leachate well head levels and monthly flow rates from Extraction Wells EW-1 and EW-2. This requirement was removed in the October 23, 2025 SDP Permit Revision. Quarterly reports for 2025 were submitted as follows:

1 st quarter	April 1, 2025 (Doc #112702)
2 nd quarter	July 7, 2025 (Doc #113355)
3 rd quarter	October 3, 2025 (Doc #114416)

Leachate elevation measurements in all site LPZ will continue to be monitored monthly in 2026 and will be assessed as part of the LCSPE for 2026.

Closed Landfill LCP

Available data suggests that the capped portion of the landfill (Area A, B, and C) does not demonstrate substantial surges in leachate head during periods of wet weather. Any variability in the measured leachate surface appears to be related to gas venting in the leachate piezometers rather than additional build-up of perched leachate. LPZ-14 could not be measured in December, 2025 as the PVC casing above ground was broken off and the point could not be located in the snow. LPZ-14 will be reviewed in 2026 to see if it can be repaired. Operation of Extraction Well EW-1 and EW-2 is observed during each monthly leachate elevation measurement event. EW-1 and EW-2 were noted as operational during all measurement events in 2025. The 2025 leachate levels in Extraction Wells EW-1 and EW-2 are included in Appendix I.4.

RCRA Subtitle D LCP

The Leachate Collection System (LCS) in the Phase 1, 2, and 3 Expansion Areas actively conveys leachate out of the closed system that is upgradient from the Phase 1 Expansion. Based on available water/leachate elevation data, it is interpreted that the existing LCS lowers the leachate surface in the southern portion of the closed areas and maintains groundwater quality standards at compliance monitoring points.

The LCS was expanded into Phase 4-R in October, 1999; into Phase 5-R in September, 2001; into Phase 6-R in October, 2003; and into Phase 7-R in March, 2016. Tank #2 was abandoned and replaced with a double walled underground leachate storage tank with a capacity of 15,000 gallons (referred to as Tank 4) during the Phase 7-R Expansion project. Landfilling in Phase 7-R was approved in Permit Amendment #3 dated March 16, 2016 (Doc #85748).

The LCS was expanded into Phase 8-R in November, 2021. The Phase 8-R Expansion project included construction of a Subtitle D composite lined leachate storage lagoon with a capacity of approximately 915,870 gallons. Note that this volume does not include the top two feet of storage in the lagoon (freeboard storage). The leachate storage lagoon will be the primary storage location for leachate collected from Phases 4-R, 5-R, 6-R, 7-R, and 8-R. Tank #4 remains in place as backup storage for leachate collected from these areas. Landfilling in Phase 8-R was approved in the Permit Revision dated November 22, 2021 (Doc #101730).

LPZ-17 was installed in Phase 8-R near the low point in the Phase 8-R disposal area to measure leachate head on the Subtitle D composite liner. LPZ-17 was measured monthly in 2025 - measurements are included on the table in Appendix I.4. As reported in the table all measurements from LPZ-17 in 2025 showed leachate thickness on the liner to be less than 12". Based on the leachate head data, the leachate collection system appears to be operating as designed. No changes are recommended.

Separation of the base of solid waste and the groundwater table is evaluated through observation of groundwater elevation measurements collected from a groundwater piezometer located in the Subtitle D compliant lined disposal areas, GPZ-2.

Groundwater head measurements are required semiannually in accordance with the SDP Permit. Groundwater head measurements in 2025 are summarized in the table below:

Date	GPZ-2
1/23/25	0.48 ft
2/20/25	0.25 ft
3/24/25	0.55 ft
4/28/25	0.60 ft
5/12/25	0.70 ft
6/6/25	1.85 ft
7/8/25	1.05 ft
8/7/25	1.85 ft
9/9/25	1.55 ft
10/8/25	1.95 ft
11/13/25	1.10 ft
12/15/25	0.65 ft

Based on the groundwater head data, separation is maintained between the base of solid waste and the groundwater surface. No changes are recommended.

Leachate Line Cleaning

IAC 567-113.7(5)b(5) requires that the leachate system be cleaned every three (3) years. Leachate lines were cleaned during September, 2025. The leachate lines should be cleaned again in 2028 in accordance with regulations.

Section 5.0 Gas Monitoring

Explosive gas monitoring per 113.9(2) and the approved GMSP was conducted quarterly during the last reporting period (2025).

Explosive gas concentrations are recorded in Percent Lower Explosive Limits (% LEL) and were within regulatory guidelines during all 2025 monitoring episodes. A summary table of gas monitoring is included in Table 13

Section 6.0 Recommendations

It is recommended that the detection monitoring continue to be performed on a semi-annual basis at the detection monitoring points listed in Table 2.

It is recommended that assessment monitoring continue to be performed on a semi-annual basis at assessment monitoring point MW96-21.

It is recommended that SRAMP#1 and GU-3 continue to be discharged to the respective Passive Engineered Conveyance System (PECS) for treatment. The PECS Performance should be evaluated based on the results of testing from SRAMP#2 and PECS-3.

It is recommended that underdrain discharges (GU-1 (aka GWD-1), GU-3, and GU-4) at this site continue to be evaluated by intrawell statistical evaluations moving forward.

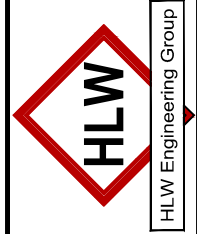
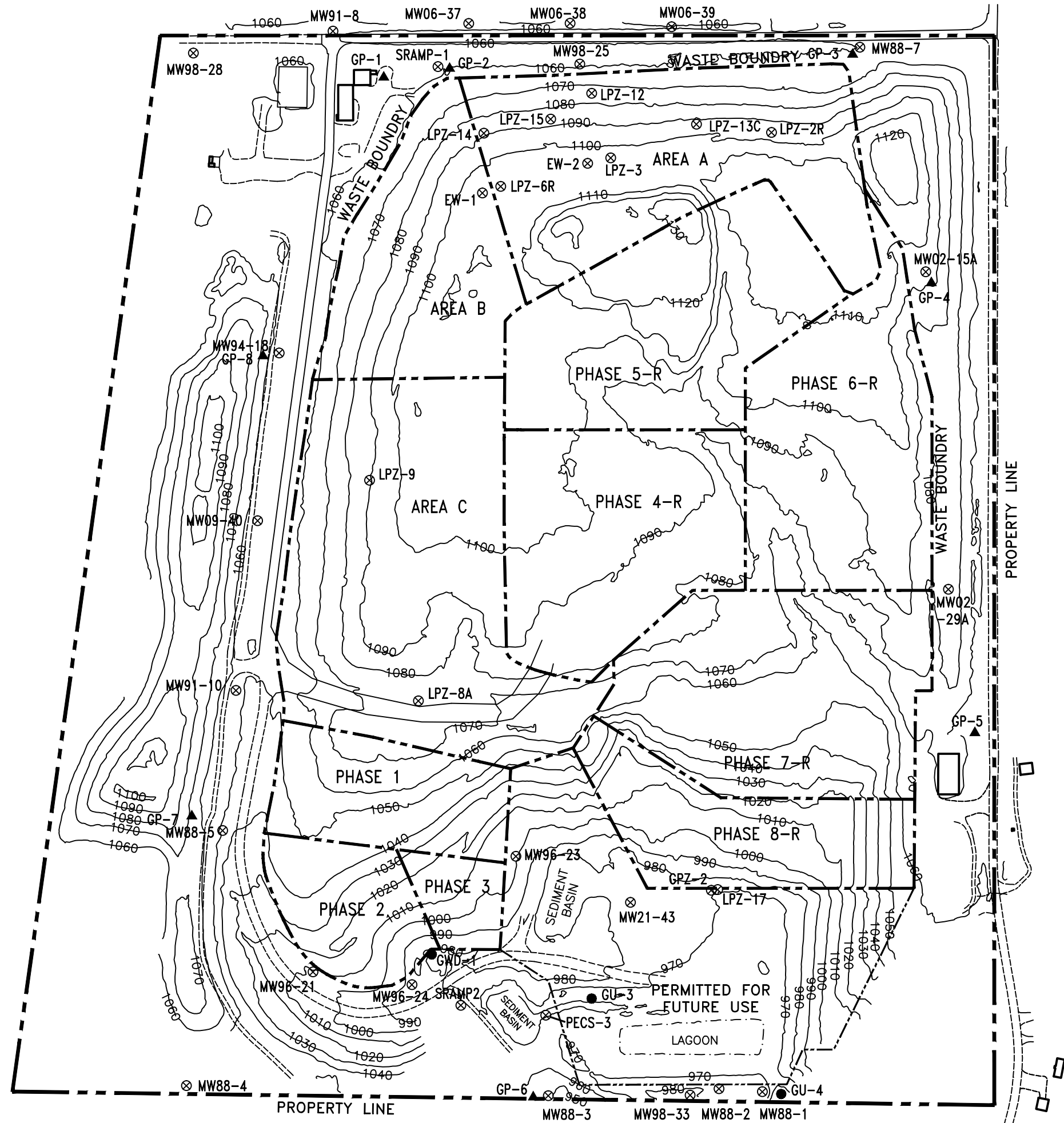
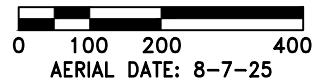
It is recommended that Corrective Action Monitoring at MW98-25, MW06-37, MW06-38, MW06-39, SRAMP #2, and PEC-3 continue to be performed on a semi-annual basis. Further, the Corrective Action System should be evaluated at the end of 2026 to determine whether the Upper Confidence Interval (95% UCL) for cobalt at MW98-25 decreases to a value below the GWPS. The assessment statistics should be summarized for each semi-annual collection episode and should continue to include a running summary of the 95% LCL/UCL values moving forward.

The sediment filling the sedimentation basin needs to be routinely monitored and routinely removed to maintain the sediment storage that is available. If so, the sampling point at the end of GU-3 and PECS-3 will not be submerged.

It is recommended that the prediction limits for arsenic (50.6 ug/L), for cobalt (7.0 ug/L), and for vanadium (40.6 ug/L) be utilized as the Site-Specific GWPS. For all other compounds, it is recommended that the published IAC 567, Chapter 137 Statewide Standard be utilized as the GWPS.

Review LPZ-14 to determine if it can be repaired.

Figures

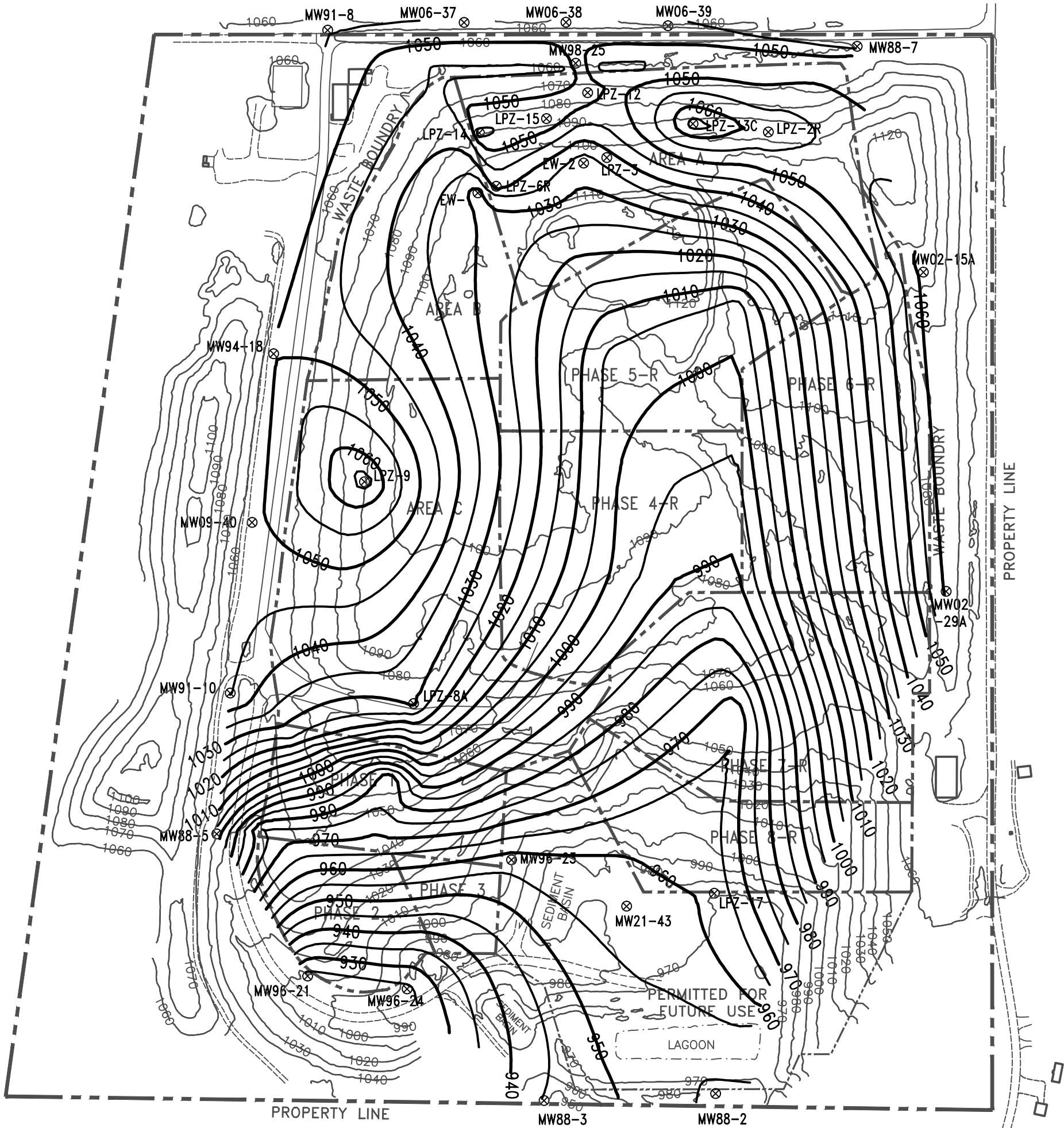
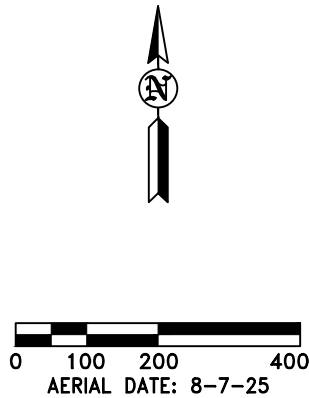


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SITE PLAN
BOONE COUNTY SANITARY LANDFILL
BOONE, IOWA

FIGURE: 1		NO.	DATE
REVISION	DRAWN	PROJECT NO.	DATE
	DRA	6007	10-13-25

WATER ELEVATION, SEPTEMBER 9, 2025			
WELL	ELEV.	WELL	ELEV.
MW88-2	956.11	MW06-39	1054.23
MW88-3	945.34	MW09-40	1048.25
MW88-5	1002.57	MW21-43	958.23
MW88-7	1056.44	LPZ-2R	1059.17
MW91-8	1055.33	LPZ-3	1076.46
MW91-10	1045.50	LPZ-6R	1042.07
MW94-18	1049.59	LPZ-8A	1030.84
MW96-21	923.13	LPZ-9	1065.62
MW96-23	957.44	LPZ-12	1053.23
MW96-24	923.57	LPZ-13C	1066.20
MW98-25	1053.00	LPZ-14	1055.18
MW02-15A	1061.54	LPZ-15	1054.53
MW02-29A	1060.86	EW-1	1028.66
MW06-37	1054.21	EW-2	1031.47
MW06-38	1054.24		



GROUNDWATER CONTOURS
BOONE COUNTY SANITARY LANDFILL
BOONE, IOWA

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REVISION		NO.	DATE
DRAWN	DRA	6007	10-13-25

FIGURE: 2

Tables (in IDNR Format)

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Table 1 – Monitoring Program Summary

Table 2 – Monitoring Program Implementation Schedule

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Table 5 – Background and GWPS Summary

Table 6 – Summary of Detections

Table 7 – Summary of Ongoing and Newly Identified SSI

Table 8 - Summary of Ongoing and Newly Identified SSL – **not required**

Table 9 – Analytical Data Summary

Table 10 – Historic SSI and SSL – **not required**

Table 11 – Corrective Action Trend Analysis– **not required**

Table 12 – Leachate Levels (RCRA Area and Original Landfill)

Table 13 – Gas Monitoring Summary

Table 1 – Monitoring Program Summary

Table 1
Monitoring Program Summary
Annual Water Quality Report
Boone County Sanitary Landfill
Permit No. 08-SDP-01-75P

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 September 18, 2014		
						Detection	Assessment	Corrective Action
MW88-2	Glacial Till	Background	NC	None	None	24	0	0
MW88-3	Glacial Till	Detection	NC	None	None	24	0	0
MW91-8	Glacial Till	Background	NC	None	None	24	0	0
MW91-10	Glacial Till	Detection	NC	None	None	24	0	0
MW94-18	Glacial Till	Detection	NC	None	None	24	0	0
MW96-21	Glacial Till	Assessment	NC	None	None	0	24	0
MW96-23	Glacial Till	Detection	NC	None	None	24	0	0
MW96-24	Glacial Till	Detection	NC	None	None	24	0	0
MW98-25	Glacial Till	Corrective Action	NC	cobalt, nickel, 1,1-dichloroethane, 1,4-dichlorobenzene, benzene, chlorobenzene, chloroethane, cis-1,2-dichloroethene, dichlorodifluoromethane	cobalt	0	0	24
MW98-28	Glacial Till	Background	NC	None	None	24	0	0
MW02-15A	Glacial Till	Background	NC	None	None	24	0	0
MW02-30A	Glacial Till	Background	NC	None	None	24	0	0
MW06-37	Glacial Till	Detection (AZPOC to MW98-28)	NC	None	None	24	0	0
MW06-38	Glacial Till	Detection (AZPOC to MW98-28)	NC	None	None	24	0	0
MW06-39	Glacial Till	Detection (AZPOC to MW98-28)	NC	None	None	24	0	0
MW09-40	Glacial Till	Detection	NC	None	None	24	0	0
MW21-43	Glacial Till	Detection	NC	None	None	24	0	0
GWD-1	Glacial Till	Detection	NC	None	None	0	0	0
GU-3	Underdrain	Corrective Action	NC	1,4-dichlorobenzene, benzene, chlorobenzene, chloroethane, cis-1,2-dichloroethene, vinyl chloride	Benzene	0	0	6
PECS-3	PECS	Passive Engineered Conveyance Structure to GU-3	NC	None	None	0	0	4
GU-4	Underdrain	Detection	NC	None	None	10	0	0
SRAMP-1	Underdrain	Corrective Action	NC	1,4-dichlorobenzene, benzene, chlorobenzene, chloroethane, cis-1,2-dichloroethene, dichlorodifluoromethane, trichlorofluoromethane	None	0	0	14
SRAMP-2	PECS	Passive Engineered Conveyance Structure to SRAMP-1	NC	None	None	0	0	20

* = not verified - verification sample is required

Table 2 – Monitoring Program Implementation Schedule

Table 2
Monitoring Program Implementation Schedule
Annual Water Quality Report
Boone County Sanitary Landfill
Permit No. 08-SDP-01-75P

Monitoring Well	Recent Sampling Dates and Constituents	Upcoming Sampling Dates and Constituents		Full Appendix II Sample Dates	
		March 2026	September 2026	Previously Collected	Next Event
MW88-2	see Table 2A	Appendix I	Appendix I		N/A
MW88-3		Appendix I	Appendix I		N/A
MW91-8		Appendix I	Appendix I		N/A
MW91-10		Appendix I	Appendix I		N/A
MW94-18		Appendix I	Appendix I		N/A
MW96-21		Appendix I	Appendix I	9/19/17, 9/24/18, 9/12/23, 3/12/2024	March, 2029
MW96-23		Appendix I	Appendix I		N/A
MW96-24		Appendix I	Appendix I		N/A
MW98-25		Appendix I ⁽¹⁾	Appendix I ⁽¹⁾	7/22/08, 9/12/08, 12/11/08, 3/4/09, 3/18/17, 9/14/22	September, 2027
MW98-28		Appendix I	Appendix I		N/A
MW02-15A		Appendix I	Appendix I		N/A
MW02-30A		Appendix I	Appendix I		N/A
MW06-37		Appendix I	Appendix I	7/22/08, 9/12/08, 12/11/08	N/A
MW06-38		Appendix I	Appendix I	7/22/08, 9/12/08, 12/11/08	N/A
MW06-39		Appendix I	Appendix I	7/22/08, 9/12/08, 12/11/08	N/A
MW09-40		Appendix I	Appendix I		N/A
MW21-43		Appendix I	Appendix I		N/A
GWD-1		Appendix I	Appendix I		N/A
GU-3		Appendix I	Appendix I		N/A
PECS-3		Appendix I VOC	Appendix I VOC		N/A
GU-4		Appendix I	Appendix I		N/A
SRAMP-1		Appendix I ⁽¹⁾	Appendix I ⁽¹⁾	9/1/09, 9/25/10	N/A
SRAMP-2		Appendix I VOC ⁽¹⁾	Appendix I VOC ⁽¹⁾		N/A
Field Duplicate		Appendix I	Appendix I		N/A

⁽¹⁾ add dichlorodifluoromethane

DNE = Does Not Exist

⁽²⁾ add bis(2-ethylhexyl)phthalate

⁽³⁾ add any detected App II compounds

Table 2A – Summary of Monitoring to Date

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

WELL	3/17/08	6/04/08	7/23/08	9/12/08	12/10/08
MW91-8	Appendix I	Appendix I	Appendix I	Appendix I	Appendix I
MW02-15A	Appendix I	Appendix I	Appendix I	Appendix I	Appendix I
MW98-28	NT	NT	NT	NT	NT
MW94-18	Appendix I	Appendix I	Appendix I	Appendix I	Appendix I
MW09-40	Installed 3/09	Installed 3/09	Installed 3/09	Installed 3/09	Installed 3/09
MW91-10	Appendix I	Appendix I	Appendix I	Appendix I	Appendix I
MW96-21	Appendix I	Appendix I	Appendix I	Appendix I	Appendix I
MW96-24	Appendix I	Appendix I	Appendix I	Appendix I	Appendix I
MW96-23	Appendix I	Appendix I	Appendix I	Appendix I	Appendix I
MW09-41	Installed 3/09	Installed 3/09	Installed 3/09	Installed 3/09	Installed 3/09
MW00-36	Appendix I	Appendix I	Appendix I	Appendix I	Appendix I
MW94-19	Appendix I	Appendix I	Appendix I	Appendix I	Appendix I
MW88-3	Appendix I	Appendix I	Appendix I	Appendix I	Appendix I
MW88-2	Appendix I	Appendix I	Appendix I	Appendix I	Appendix I
SRAMP 1	NT	NT	Appendix I	Appendix I	Appendix I
GWD-1	Dry	Dry	Dry	Dry	Dry
GWD-2	Appendix I	Appendix I	Appendix I	Appendix I	Appendix I
MW98-25	Appendix I	Appendix I	Appendix II	Appendix II	Appendix II
MW06-37	Appendix I	Appendix I	Appendix II	Appendix II	Appendix II
MW06-38	Appendix I	Appendix I	Appendix II	Appendix II	Appendix II
MW06-39	Appendix I	Appendix I	Appendix II	Appendix II	Appendix II
Duplicate	N/A	N/A	MW94-19	MW02-15A	MW91-8

WELL	3/4/09	5/04/09	7/1/09	9/20/09	12/29/09
MW91-8	Appendix I	NT	NT	Appendix I	NT
MW02-15A	Appendix I	NT	NT	Appendix I	NT
MW98-28	NT	NT	NT	NT	Appendix I
MW94-18	Appendix I	NT	NT	Appendix I	NT
MW09-40	Appendix I	Appendix I	Appendix I	Appendix I	Appendix I
MW91-10	Appendix I	NT	NT	Appendix I	NT
MW96-21	Appendix I	NT	NT	Appendix I	NT
MW96-24	Appendix I	NT	Zinc	Appendix I	NT
MW96-23	Appendix I	NT	NT	Appendix I	NT
MW09-41	Appendix I	Appendix I	Appendix I	Appendix I	Appendix I
MW00-36	Appendix I	Appendix II	NT	Appendix II	NT
MW94-19	Appendix I	NT	NT	Appendix I	NT
MW88-3	Appendix I	NT	NT	Appendix I	NT
MW88-2	Appendix I	NT	NT	Appendix I	NT
SRAMP 1	Appendix I	NT	NT	Appendix II	NT
GWD-1	Dry	Dry	Dry	Dry	Dry
GWD-2	Appendix I	VOC's	VOC's	Appendix II	NT
MW98-25	Appendix II	NT	NT	Appendix I +	NT
MW06-37	Appendix I	NT	NT	Appendix I	NT
MW06-38	Appendix I	NT	NT	Appendix I	NT
MW06-39	Appendix I	NT	NT	Appendix I	NT
Duplicate	MW94-19	N/A	N/A	MW94-18	N/A

+ = dichlorodifluoromethane, bis(2-ethylhexyl)phthalate, beta (BHC)

++ = bis(2-ethylhexyl)phthalate

WELL	3/25/10	5/03/10	6/2/10	7/15/10	9/25/10
MW91-8	Appendix I	NT	NT	NT	Appendix I
MW02-15A	Appendix I	NT	NT	NT	Appendix I
MW98-28	Appendix I	Appendix I	NT	Appendix I	Appendix I
MW94-18	Appendix I	NT	NT	NT	Appendix I
MW09-40	Appendix I	NT	NT	NT	Appendix I
MW91-10	Appendix I	NT	NT	NT	Appendix I
MW96-21	Appendix I	NT	NT	NT	Appendix I
MW96-24	Appendix I	NT	NT	NT	Appendix I
MW96-23	Appendix I	NT	NT	NT	Appendix I
MW09-41	Appendix I	NT	NT	NT	Appendix I
MW00-36	Appendix I	NT	NT	NT	Appendix II
MW94-19	Appendix I	NT	NT	NT	Appendix I
MW88-3	Appendix I	NT	NT	NT	Appendix I
MW88-2	Appendix I	NT	NT	NT	Appendix I
SRAMP 1	NT	NT	NT	NT	Appendix II
GWD-1	Dry	NT	NT	Dry	Dry
GWD-2	Appendix II	NT	VOCs	VOCs	Appendix II
MW98-25	Appendix I+	NT	NT	NT	Appendix I+
MW06-37	Appendix I	NT	NT	NT	Appendix I
MW06-38	Appendix I	NT	NT	NT	Appendix I
MW06-39	Appendix I	NT	NT	NT	Appendix I
Duplicate	MW98-25	N/A	N/A	N/A	MW88-2

WELL	3/30/11	9/15/11	3/7/12	9/12/12	3/20/13
MW91-8	Appendix I	Appendix I	Appendix I	Appendix I	Appendix I
MW02-15A	Appendix I	Appendix I	Appendix I	Appendix I	Appendix I
MW98-28	Appendix I	Appendix I	Appendix I	Appendix I	Appendix I
MW94-18	Appendix I	Appendix I	Appendix I	Appendix I	Appendix I
MW09-40	Appendix I	Appendix I	Appendix I	Appendix I	Appendix I
MW91-10	Appendix I	Appendix I	Appendix I	Appendix I	Appendix I
MW96-21	Appendix I	Appendix I	Appendix I	Appendix I	Appendix I
MW96-24	Appendix I	Appendix I	Appendix I	Appendix I	Appendix I
MW96-23	Appendix I	Appendix II	Appendix II	Appendix ++	Appendix ++
MW09-41	Appendix I	Appendix I	Appendix I	Appendix I	Appendix I
MW00-36	Appendix I++	Appendix I++	Appendix I+	Appendix I++	Appendix I++
MW94-19	Appendix I	Appendix I	Appendix I	Appendix I	Appendix I
MW88-3	Appendix I	Appendix I	Appendix I	Appendix I	Appendix I
MW88-2	Appendix I	Appendix I	Appendix I	Appendix I	Appendix I
SRAMP 1	Appendix I	Appendix I+	Appendix I+	Appendix I+	Appendix I+
SRAMP 2	--	--	--	--	Approved 10-28-13
GWD-1	Dry	Dry	Dry	Dry	Dry
MW98-25	Appendix I+	Appendix I+	Appendix I+	Appendix I+	Appendix I+
MW06-37	Appendix I	Appendix I	Appendix I	Appendix I	Appendix I
MW06-38	Appendix I	Appendix I	Appendix I	Appendix I	Appendix I
MW06-39	Appendix I	Appendix I	Appendix I	Appendix I	Appendix I
Duplicate	MW91-8	SRAMP-1	MW91-10	MW06-38	MW00-36

+ = dichlorodifluoromethane, bis(2-ethylhexyl)phthalate, beta (BHC)

++= bis(2-ethylhexyl)phthalate

WELL	9/27/13	3/13/14	6/10/14	8/8/14	9/19/14	11/18/14
MW91-8	Appendix I	Appendix I			Appendix I	Appendix I
MW02-15A	Appendix I	Appendix I			Appendix I	Appendix I
MW98-28	Appendix I	Appendix I			Appendix I	Appendix I
MW94-18	Appendix I	Appendix I			Appendix I	
MW09-40	Appendix I	Appendix I			Appendix I	
MW91-10	Appendix I	Appendix I			Appendix I	
MW96-21	Appendix I	Appendix I			Appendix I	
MW96-24	Appendix I	Appendix I			Appendix I	
MW96-23	Appendix I ⁽²⁾	Appendix I ⁽²⁾			Appendix I ⁽²⁾	
MW09-41	damaged	damaged			Abandoned	
MW00-36	Appendix I ⁽²⁾	Appendix I ⁽²⁾			Appendix I ⁽²⁾	
MW94-19	Appendix I	Appendix I			Appendix I	
MW88-3	Appendix I	Appendix I			Appendix I	
MW88-2	Appendix I	Appendix I			Appendix I	Appendix I
SRAMP 1	Appendix I ⁽¹⁾	Appendix I ⁽¹⁾			Appendix I ⁽¹⁾	
SRAMP 2	Approved 10/2013	Appendix I ⁽¹⁾	Appendix I	Appendix I	Appendix I	Appendix I
GWD-1	Dry	Dry			Dry	
MW98-25	Appendix I ⁽¹⁾	Appendix I ⁽¹⁾			Appendix I ⁽¹⁾	
MW06-37	Appendix I	Appendix I			Appendix I	
MW06-38	Appendix I	Appendix I			Appendix I	
MW06-39	Appendix I	Appendix I			Appendix I	
Duplicate	MW98-25	MW98-25			MW94-18	

WELL	3/17/2015	6/29/2015	9/11/2015	11/9/2015
MW91-8	Appendix I	Appendix I	Appendix I	
MW02-15A	Appendix I	Appendix I	Appendix I	
MW98-28	Appendix I	Appendix I	Appendix I	
MW94-18	Appendix I		Appendix I	
MW09-40	Appendix I		Appendix I	
MW91-10	Appendix I		Appendix I	
MW96-21	damaged		damaged	
MW96-24	Appendix I		Appendix I	
MW96-23	Appendix I ⁽²⁾		Appendix I ⁽²⁾	Resample - As
MW00-36	Appendix I ⁽²⁾		Abandoned	
MW94-19	Appendix I		Appendix I	
MW88-3	Appendix I		Appendix I	
MW88-2	Appendix I	Appendix I	Appendix I	
SRAMP 1	Appendix I ⁽¹⁾		Appendix I ⁽¹⁾	
SRAMP 2	Appendix I		Appendix I ⁽¹⁾	
GWD-1	Dry		Dry	
MW98-25	Appendix I ⁽¹⁾		Appendix I ⁽¹⁾	
MW06-37	Appendix I		Appendix I	
MW06-38	Appendix I		Appendix I	
MW06-39	Appendix I		Appendix I	
Duplicate	SRAMP 2		MW91-10	

(1) = dichlorodifluoromethane, bis(2-ethylhexyl)phthalate, beta (BHC)

(2) = bis(2-ethylhexyl)phthalate

WELL	3/16/2016	6/7/2016	9/8/2016	9/28/2016
MW88-2 (b)	Appendix I		Appendix I	
MW91-8 (b)	Appendix I	resample	Appendix I	
MW02-15A (b)	Appendix I		Appendix I	
MW98-28 (b)	Appendix I		Appendix I	
MW02-30A (b)	Appendix I	Appendix I	Appendix I	
MW94-18	Appendix I		Appendix I	
MW09-40	Appendix I		Appendix I	
MW91-10	Appendix I		Appendix I	
MW96-21	damaged		damaged	Appendix I
MW96-24	Appendix I		Appendix I	
MW94-19	Appendix I		Appendix I	
MW88-3	Appendix I		Appendix I	
MW16-42	Appendix I	Appendix I	Appendix I	
GWD-1	dry		dry	
MW96-23	Appendix I ⁽²⁾		Appendix I ⁽²⁾	
SRAMP 1	Appendix I ⁽¹⁾		Appendix I ⁽¹⁾	
SRAMP 2	Appendix I ⁽¹⁾		Appendix I ⁽¹⁾	
MW98-25	Appendix I ⁽¹⁾		Appendix I ⁽¹⁾	
MW06-37	Appendix I		Appendix I	
MW06-38	Appendix I		Appendix I	
MW06-39	Appendix I		Appendix I	
Duplicate	Appendix I		Appendix I	

(1) = dichlorodifluoromethane, bis(2-ethylhexyl)phthalate, beta (BHC)

(2) = bis(2-ethylhexyl)phthalate

WELL	3/17/2017	6/8/2017	9/19/2017	12/1/2017
MW88-2 (b)	Appendix I		Appendix I	
MW91-8 (b)	Appendix I		Appendix I	acetone
MW02-15A (b)	Appendix I		Appendix I	
MW98-28 (b)	Appendix I		Appendix I	
MW02-30A (b)	Appendix I		Appendix I	
MW94-18	Appendix I		Appendix I	
MW09-40	Appendix I		Appendix I	
MW91-10	Appendix I		Appendix I	
MW96-21	damaged		Appendix II	
MW96-24	Appendix I		Appendix I	
MW94-19	Appendix I		Appendix I	
MW88-3	Appendix I	cobalt	Appendix I	
MW16-42	Appendix I	barium	Appendix II	
GWD-1	dry		dry	
MW96-23	Appendix I		Appendix I	
SRAMP 1	Appendix I ⁽¹⁾		Dry	
SRAMP 2	Appendix I ⁽¹⁾		Dry	
MW98-25	Appendix II		Appendix I ⁽¹⁾	
MW06-37	Appendix I		Appendix I	
MW06-38	Appendix I		Appendix I	
MW06-39	Appendix I		Appendix I	
GU-3	Buried		Buried	
Duplicate	Appendix I		Appendix I	

(1) = dichlorodifluoromethane, bis(2-ethylhexyl)phthalate, beta (BHC)

(2) = bis(2-ethylhexyl)phthalate

WELL	3/8/2018	5/19/2018	8/9/2018	9/24/2018	12/20/2018
MW88-2 (b)	Appendix I			Appendix I	
MW91-8 (b)	Appendix I			Appendix I	
MW02-15A (b)	Appendix I			Appendix I	
MW98-28 (b)	Appendix I			Appendix I	
MW02-30A (b)	Appendix I			Appendix I	
MW94-18	Appendix I			Appendix I	
MW09-40	Appendix I			Appendix I	
MW91-10	Appendix I			Appendix I	
MW96-21	Appendix I			Appendix II	(3)
MW96-24	Appendix I			Appendix I	
MW94-19	Appendix I			Appendix I	
MW88-3	Appendix I			Appendix I	
MW16-42	flooded	Appendix I	barium	Appendix II	(2)
GWD-1	dry			dry	
MW96-23	Appendix I			Appendix I	
SRAMP 1	dry			dry	
SRAMP 2	Appendix I			Appendix I ⁽¹⁾	(4)
MW98-25	Appendix I			Appendix I ⁽¹⁾	
MW06-37	Appendix I			Appendix I	
MW06-38	Appendix I			Appendix I	
MW06-39	Appendix I			Appendix I	
GU-3	buried			buried	
Duplicate	At MW-39			At MW88-3	

- (1) = dichlorodifluoromethane
(2) = bis(2-ethylhexyl)phthalate
(3) = Appendix I metals
(4) = ethylbenzene, xylenes

WELL	3/25/2019	9/3/2019	12/3/2019	3/23/2020	9/4/2020
MW88-2 (b)	Appendix I	Appendix I		Appendix I	Appendix I
MW91-8 (b)	Appendix I	Appendix I		Appendix I	Appendix I
MW02-15A (b)	Appendix I	Appendix I		Appendix I	Appendix I
MW98-28 (b)	Appendix I	Appendix I		Appendix I	Appendix I
MW02-30A (b)	Appendix I	Appendix I		Appendix I	Appendix I
MW94-18	Appendix I	Appendix I		Appendix I	Appendix I
MW09-40	Appendix I	Appendix I		Appendix I	Appendix I
MW91-10	Appendix I	Appendix I		Appendix I	Appendix I
MW96-21	Appendix I	Appendix I		Appendix I	Appendix I
MW96-24	Appendix I	Appendix I		Appendix I	Appendix I
MW94-19	Appendix I	damaged		damaged	damaged
MW88-3	Appendix I	Appendix I		Appendix I	Appendix I
MW16-42	Appendix I	Appendix I		Appendix I	Appendix I
GWD-1	dry	dry		dry	dry
MW96-23	Appendix I	Appendix I		Appendix I	Appendix I
SRAMP 1	Appendix I ⁽¹⁾	Appendix I ⁽¹⁾		dry	dry
SRAMP 2	Appendix I ⁽¹⁾	dry		Appendix I ⁽¹⁾	dry
MW98-25	Appendix I ⁽¹⁾	Appendix I ⁽¹⁾		Appendix I ⁽¹⁾	Appendix I ⁽¹⁾
MW06-37	Appendix I	Appendix I	lead	Appendix I	Appendix I
MW06-38	Appendix I	Appendix I		Appendix I	Appendix I
MW06-39	Appendix I	Appendix I		Appendix I	Appendix I
GU-3	buried	buried		buried	buried
Duplicate	At MW-25	At MW-25		At MW91-8	At MW88-3

(1) = dichlorodifluoromethane

WELL	3/9/2021	6/7/2021	8/30/2021	9/7/2021	9/13/2021	12/3/2021
MW88-2 (b)	Appendix I			damaged		
MW91-8 (b)	Appendix I			Appendix I		
MW02-15A (b)	Appendix I			Appendix I		
MW98-28 (b)	Appendix I			Appendix I		
MW02-30A (b)	Appendix I			Appendix I		
MW94-18	Appendix I	R- Cu		Appendix I		
MW09-40	Appendix I			Appendix I		R- Ni
MW91-10	Appendix I	R- Cu		Appendix I		
MW96-21	Appendix I			Appendix I		
MW96-24	Appendix I			Appendix I		R- Ba
MW88-3	Appendix I			Appendix I		
GWD-1	dry			dry		
MW96-23	Appendix I			Appendix I		
SRAMP 1	Appendix I ⁽¹⁾			dry		
SRAMP 2	Appendix I ⁽¹⁾			dry		
MW98-25	Appendix I ⁽¹⁾			Appendix I ⁽¹⁾		
MW06-37	Appendix I			Appendix I		R- Cd
MW06-38	Appendix I			Appendix I		
MW06-39	Appendix I			Appendix I		
GU-3	submerged	submerged	submerged	submerged	Appendix I	Appendix I
GU-4	---		Appendix I	Appendix I		
Duplicate	At MW-3			At MW-18		

WELL	3/28/2022	4/18/2022	6/23/2022	6/24/2022	9/14/2022	12/1/2022
MW88-2 (b)	Appendix I				Appendix I	
MW91-8 (b)	Appendix I				Appendix I	
MW02-15A (b)	Appendix I				Appendix I	
MW98-28 (b)	Appendix I				Appendix I	
MW02-30A (b)	Appendix I				Appendix I	
MW94-18	Appendix I				Appendix I	
MW09-40	Appendix I				Appendix I	
MW91-10	Appendix I				Appendix I	
MW96-21	Appendix I				Appendix I	
MW96-24	Appendix I				Appendix I	
MW88-3	Appendix I				Appendix I	
GWD-1	dry				dry	
MW96-23	Appendix I				Appendix I	
MW21-43	Appendix I				Appendix I	
SRAMP 1	Appendix I ⁽¹⁾				Appendix I ⁽¹⁾	
SRAMP 2	Appendix I ⁽¹⁾				Appendix I ⁽¹⁾	
MW98-25	Appendix I ⁽¹⁾				Appendix II	
MW06-37	Appendix I				Appendix I	
MW06-38	Appendix I				Appendix I	
MW06-39	Appendix I				Appendix I	
GU-3	Pilot Study		submerged	submerged	Appendix I	
PECS-3	App I VOC	App I VOC	submerged	submerged	submerged	submerged
GU-4	Pilot Study		Benzene	Pilot Study	Appendix I	Toluene
Duplicate	At MW-40				At MW-37	

(1) = dichlorodifluoromethane

WELL	3/20/2023	9/12/2023	3/12/2024	9/30/2024	11/25/2024	12/9/2024
MW88-2 (b)	Appendix I	Appendix I	Appendix I	Appendix I		
MW91-8 (b)	Appendix I	Appendix I	Appendix I	Appendix I		
MW02-15A (b)	Appendix I	Appendix I	Appendix I	Appendix I		
MW98-28 (b)	Appendix I	Appendix I	Appendix I	Appendix I		
MW02-30A (b)	Appendix I	Appendix I	Appendix I	Appendix I		
MW94-18	Appendix I	Appendix I	Appendix I	Appendix I		
MW09-40	Appendix I	Appendix I	Appendix I	Appendix I		
MW91-10	Appendix I	Appendix I	Appendix I	Appendix I		
MW96-21	Appendix I	Appendix II	Appendix I	Appendix I		
MW96-24	Appendix I	Appendix I	Appendix I	Appendix I		
MW88-3	Appendix I	Appendix I	Appendix I	Appendix I	R-Cd	
GWD-1	dry	dry	dry	dry		
MW96-23	Appendix I	Appendix I	Appendix I	Appendix I		
MW21-43	Appendix I	Appendix I	Appendix I	Appendix I		
SRAMP 1	Appendix I ⁽¹⁾	Appendix I ⁽¹⁾	dry	dry		
SRAMP 2	App I VOC ⁽¹⁾	App I VOC ⁽¹⁾	App I VOC ⁽¹⁾	dry		
MW98-25	Appendix I ⁽¹⁾	Appendix I ⁽¹⁾	Appendix I ⁽¹⁾	Appendix I ⁽¹⁾		
MW06-37	Appendix I	Appendix I	Appendix I	Appendix I		
MW06-38	Appendix I	Appendix I	Appendix I	Appendix I		
MW06-39	Appendix I	Appendix I	Appendix I	Appendix I		
GU-3	submerged	submerged	submerged	Appendix I		Appendix I
PECS-3	submerged	submerged	Dry	App I VOC		App I VOC
GU-4	Appendix I	Appendix I	Appendix I	buried	Appendix I	
Duplicate	At MW-18	At MW-10	Appendix I	Appendix I		

(1) = dichlorodifluoromethane

WELL	3/24/2025	7/8/2025	9/9/2025			
MW88-2 (b)	Appendix I		Appendix I			
MW91-8 (b)	Appendix I		Appendix I			
MW02-15A (b)	Appendix I		Appendix I			
MW98-28 (b)	Appendix I		Appendix I			
MW02-30A (b)	Appendix I		Appendix I			
MW94-18	Appendix I		Appendix I			
MW09-40	Appendix I		Appendix I			
MW91-10	Appendix I		Appendix I			
MW96-21	Appendix I		Appendix I			
MW96-24	Appendix I		Appendix I			
MW88-3	Appendix I		Appendix I			
GWD-1	dry		dry			
MW96-23	Appendix I		Appendix I			
MW21-43	Appendix I		Appendix I			
SRAMP 1	Appendix I ⁽¹⁾		dry			
SRAMP 2	App I VOC ⁽¹⁾		dry			
MW98-25	Appendix I ⁽¹⁾		Appendix I ⁽¹⁾			
MW06-37	Appendix I		Appendix I			
MW06-38	Appendix I		Appendix I			
MW06-39	Appendix I		Appendix I			
GU-3	Appendix I	Cis 1,2-DCE	submerged			
PECS-3	App I VOC		submerged			
GU-4	Appendix I		Appendix I			
Duplicate	At MW-10		At MW-25			

(2) = dichlorodifluoromethane

Table 3 – Monitoring Well Maintenance Performance Reevaluation Schedule

Table 3
Monitoring Well Maintenance and Performance Revaluation Schedule
Annual Water Quality Report
Boone County Sanitary Landfill
Permit No. 08-SDP-01-75P

Compliance with:	Monitoring Calendar Years									
	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
567 IAC 113.10(2)"f"(1) high and low water levels (biennial)	X	X	X	X	X	X	X	P	P	P
567 IAC 113.10(2)"f"(2) changes in the hydrologic setting and flow paths (biennial)		X		X		X		P		P
567 IAC 113.10(2)"f"(3) well depths (annual)	X	X	X	X	X	X	X	P	P	P
567 IAC 113.10(2)"f"(4) well recharge rates and chemistry (biennial)		X		X	X	X		P		P
Waste separation from ground water 113.6(2)"l"	2X	2X	2X	2X	2X	2X	2X	2P	2P	2P

X = completed

P = Planned

Table 4 – Monitoring Well Maintenance Performance Reevaluation Summary

Table 4
Monitoring Well Maintenance and Performance Summary
Annual Water Quality Report
Boone County Sanitary Landfill
Permit No. 08-SDP-01-75P

Well	Top of casing	Top of Screen	Total Depth		Date of Measurements		Maximum Depth Discrepancy (ft)	Hydraulic Cond. (cm/sec)/date	Most Recent Recharge Rate	
					3/24/2025	9/9/2025			3/12/2024	Change
MW88-2	975.41	951.37	34.04	Groundwater Level (ft)	21.06	19.27	0	1.89E-05 1998	Full recovery in 5 hour	None percieved
				Groundwater Elevation (Ft MSL)	954.35	956.14				
				Measured Well Depth (ft)	34.04	34.04				
				Submerged (+) or Exposed screen (-)	2.98	4.77				
MW88-3	952.93	935.43	27.5	Groundwater Level (ft)	10.49	7.59	0	8.00E-06 1992	Full recovery in 3 hour	None percieved
				Groundwater Elevation (Ft MSL)	942.44	945.34				
				Measured Well Depth (ft)	27.5	27.5				
				Submerged (+) or Exposed screen (-)	7.01	9.91				
MW91-8	1060.82	1050.82	20	Groundwater Level (ft)	4.23	5.49	0	1.26E-04 1996	Full recovery in 1 hour	None percieved
				Groundwater Elevation (Ft MSL)	1056.59	1055.33				
				Measured Well Depth (ft)	20	20				
				Submerged (+) or Exposed screen (-)	5.77	4.51				
MW91-10	1056.80	1046.8	20	Groundwater Level (ft)	10.51	11.3	0	2.53E-05 1996	Full recovery in 6 hour	None percieved
				Groundwater Elevation (Ft MSL)	1046.29	1045.5				
				Measured Well Depth (ft)	20	20				
				Submerged (+) or Exposed screen (-)	-0.51	-1.3				
MW94-18	1058.85	1047.75	21.1	Groundwater Level (ft)	8.73	9.26	0	6.85E-05 1996	Full recovery in 7 hour	None percieved
				Groundwater Elevation (Ft MSL)	1050.12	1049.59				
				Measured Well Depth (ft)	21.1	21.1				
				Submerged (+) or Exposed screen (-)	2.37	1.84				
MW96-21	1011.06	933.26	102.8	Groundwater Level (ft)	88	87.93	1.6	9.00E-03 1997	No Drawdown	None percieved
				Groundwater Elevation (Ft MSL)	923.06	923.13				
				Measured Well Depth (ft)	101.2	101.2				
				Submerged (+) or Exposed screen (-)	-10.2	-10.13				
MW96-23	1007.33	949.74	67.59	Groundwater Level (ft)	51.2	49.89	1.59	1.20E-05 1997	Full recovery in 5 hour	None percieved
				Groundwater Elevation (Ft MSL)	956.13	957.44				
				Measured Well Depth (ft)	66	66				
				Submerged (+) or Exposed screen (-)	6.39	7.7				
MW96-24	988.56	920.94	77.62	Groundwater Level (ft)	65.12	64.99	3.22	2.49E-04 1997	Full recovery in 6 hour	None percieved
				Groundwater Elevation (Ft MSL)	923.44	923.57				
				Measured Well Depth (ft)	74.4	74.4				
				Submerged (+) or Exposed screen (-)	2.5	2.63				
MW98-25	1059.38	1049.98	19.4	Groundwater Level (ft)	5.25	6.38	0.4	3.88E-04 1998	Full recovery in 2 hour	None percieved
				Groundwater Elevation (Ft MSL)	1054.13	1053				
				Measured Well Depth (ft)	19	19				
				Submerged (+) or Exposed screen (-)	4.15	3.02				
MW98-28	1052.51	900.24	152.27	Groundwater Level (ft)	125	125.65	3.47	1.51E-06 2009	Full recovery in 24 hour	None percieved
				Groundwater Elevation (Ft MSL)	927.51	926.86				
				Measured Well Depth (ft)	148.8	148.8				
				Submerged (+) or Exposed screen (-)	27.27	26.62				
MW02-15A	1105.3	1052.82	62.48	Groundwater Level (ft)	43.3	43.76	-0.12	6.96E-04 1998	Full recovery in 3 hour	None percieved
				Groundwater Elevation (Ft MSL)	1062	1061.54				
				Measured Well Depth (ft)	62.6	62.6				
				Submerged (+) or Exposed screen (-)	9.18	8.72				
MW02-30A	1088.7	971.97	116.73	Groundwater Level (ft)	31.65	30.15	-1.07	1.37E-05 1998	Full recovery in 24 hour	None percieved
				Groundwater Elevation (Ft MSL)	1057.05	1058.55				
				Measured Well Depth (ft)	117.8	117.8				
				Submerged (+) or Exposed screen (-)	85.08	86.58				
MW06-37	1060.75	1047.9	22.85	Groundwater Level (ft)	6.5	6.54	0.25	5.57E-05 2006	Full recovery in 2 hour	None percieved
				Groundwater Elevation (Ft MSL)	1054.25	1054.21				
				Measured Well Depth (ft)	22.6	22.6				
				Submerged (+) or Exposed screen (-)	6.35	6.31				
MW06-38	1061.53	1048.61	22.92	Groundwater Level (ft)	6.19	7.29	0.42	2.69E-04 2006	Full recovery in 2 hour	None percieved
				Groundwater Elevation (Ft MSL)	1055.34	1054.24				
				Measured Well Depth (ft)	22.5	22.5				
				Submerged (+) or Exposed screen (-)	6.73	5.63				
MW06-39	1060.78	1047.95	27.83	Groundwater Level (ft)	4.95	6.55	0.33	5.20E-06 2006	Full recovery in 2 hour	None percieved
				Groundwater Elevation (Ft MSL)	1055.83	1054.23				
				Measured Well Depth (ft)	27.5	27.5				
				Submerged (+) or Exposed screen (-)	7.88	1026.4				
MW09-40	1056.5	1046.5	21.1	Groundwater Level (ft)	6.4	8.25	0	3.29E-05 2009	Full recovery in 8 hour	None percieved
				Groundwater Elevation (Ft MSL)	1050.1	1048.25				
				Measured Well Depth (ft)	21.1	21.1				
				Submerged (+) or Exposed screen (-)	3.6	1027.15				
MW21-43	978.29	958.04	30.25	Groundwater Level (ft)	21.77	20.06	0	9.00E-03 2022	Full recovery in 3 hour	None percieved
				Groundwater Elevation (Ft MSL)	956.52	958.23				
				Measured Well Depth (ft)	30.25	30.25				
				Submerged (+) or Exposed screen (-)	-1.52	0.19				

Table 4A – Water Elevations Over Time

Table 4A
Background and GWPS Summary
Annual Water Quality Report
Boone County Sanitary Landfill
Permit No. 08-SDP-01-75P

Well/TOC	MW85-2	1055	MW88-1	974.1	MW88-2	974.47	MW88-3	952.93	MW88-4	1007.58
				973.8		975.41				
	Water Depth	Water Elevation	Water Depth	Water Elevation	Water Depth	Water Elevation	Water Depth	Water Elevation	Water Depth	Water Elevation
12/07/88			34.11	939.99	19.41	955.06	9.78	943.15	dry	dry
05/31/89	14.95	1040.05	35.00	939.1	19.50	954.97	9.00	943.93	dry	dry
06/05/89	15.00	1040	34.30	939.8	19.50	954.97	9.00	943.93	dry	dry
09/13/89	16.00	1039	35.00	939.1	20.33	954.14	10.04	942.89	dry	dry
03/27/90	13.60	1041.4	34.66	939.44	19.67	954.8	10.40	942.53	dry	dry
04/06/90	12.92	1042.08	34.75	939.35	19.50	954.97	10.30	942.63	dry	dry
09/20/90	10.20	1044.8	34.10	940	19.40	955.07	6.80	946.13	dry	dry
04/17/91	7.30	1047.7	33.70	940.4	17.30	957.17	4.80	948.13	dry	dry
09/25/91	11.80	1043.2	34.33	939.77	19.70	954.77	8.10	944.83	dry	dry
01/10/92	9.40	1045.6	34.05	940.05	19.05	955.42	8.60	944.33	dry	dry
01/17/92										
01/24/92										
01/31/92										
02/07/92										
02/21/92										
03/02/1992	8.80	1046.2	33.93	940.17	18.38	956.09	8.08	944.85	dry	dry
03/13/92	7.20	1047.8	33.80	940.3	17.70	956.77	7.55	945.38	dry	dry
03/27/92	8.40	1046.6	34.00	940.1	18.40	956.07	7.95	944.98	dry	dry
04/26/92	7.60	1047.4	33.95	940.15	17.90	956.57	7.70	945.23	dry	dry
09/22/92	10.00	1045	33.70	940.4	19.00	955.47	8.50	944.43	dry	dry
06/11/93	7.75	1047.25	33.50	940.6	17.50	956.97	5.30	947.63	dry	dry
09/30/93	7.90	1047.1	33.00	941.1	17.50	956.97	5.50	947.43	dry	dry
12/09/93	10.40	1044.6	33.40	940.7	19.00	955.47	7.00	945.93	dry	dry
04/07/94	11.45	1043.55							dry	dry
05/23/94										
06/06/94										
06/08/94										
09/21/94	12.34	1042.66	33.60	940.5	19.16	955.31	7.20	945.73	dry	dry
11/01/94	10.80	1044.2	33.40	940.7	18.60	955.87	6.10	946.83	dry	dry
12/05/94	11.86	1043.14	33.70	940.4	19.22	955.25	4.90	948.03	dry	dry
03/02/95	12.30	1042.7	33.77	940.33	19.10	955.37	6.40	946.53	dry	dry
06/22/95	9.20	1045.8	33.64	940.46	18.37	956.1	4.00	948.93	dry	dry
09/13/95	10.62	1044.38	33.94	940.16	18.8	955.67	6.4	946.53	dry	dry
03/21/96	12.75	1042.25	34.15	939.95	18.7	955.77	7.4	945.53	dry	dry
05/03/96									dry	dry
09/03/96	10.5	1044.5								
01/06/1997	9.2	1045.8	34	940.1	18.2	956.27	4.8	948.13	60.95	946.63
03/19/1997	9.28	1045.72	33.75	940.35	17.15	957.32	3	949.93	60.8	946.78
06/18/1997										
09/01/1997	12.2	1042.8	34	940.1	19	955.47	4.5	948.43	59.7	947.88
03/03/1998	11.35	1043.65	33.6	940.5	18	956.47	6.65	946.28	60.9	946.68
07/30/1998	NT	NT	NT	NT	17.2	957.27	4.51	948.42	NT	NT
08/25/1998	NT	NT	NT	NT	18.5	955.97	5.1	947.83	NT	NT
09/15/1998	NT	NT	NT	NT	18.6	955.87	5.6	947.33	NT	NT
10/29/1999	NT	NT	NT	NT	19.27	955.2	NT	NT	NT	NT
12/27/1999	NT	NT	NT	NT	19.3	955.17	NT	NT	NT	NT
03/14/2000	12.4	1042.6	33.9	940.2	19.1	955.37	6.85	946.08	60.75	946.83
06/29/2000	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
09/18/2000	13.9	1041.1	34.42	939.68	19.7	954.77	6.15	946.78	81.47	926.11
12/20/2000	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
02/08/2001	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
03/22/2001	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
09/20/2001	13.1	1041.9	34	940.1	19.4	955.07	8	944.93	NT	NT
03/15/2002	13	1042	34.45	939.65	19.8	954.67	10.1	942.83	62.25	945.33
09/16/2002	12.9	1042.1	34.75	939.35	19.8	954.67	9	943.93	NT	NT
03/11/2003	13.7	1041.3	34.98	939.12	19.9	954.57	10.3	942.63	dry	dry
09/16/2003	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
03/09/2004	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
09/14/2004	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
03/04/2005	11.67	1043.33	34.38	939.72	18.85	955.62	10.45	942.48	dry	dry
09/15/2005	12.57	1042.43	34.57	939.53	19.88	954.59	9.69	943.24	dry@64.3	dry

Well/TOC	MW85-2	1055 MW88-1	974.1 MW88-2	974.47 MW88-3	952.93 MW88-4	1007.58
			973.8	975.41		

new elevation 8/3/22

Average	11.46	1043.54	34.21	939.77	18.50	956.06	7.84	945.09	60.54	947.04
Std. Dev.	1.90	1.90	0.80	0.86	1.50	1.41	2.87	2.87	3.46	3.46
	16.61%	0.18%	2.35%	0.09%	8.08%	0.15%	36.59%	0.30%	5.71%	0.36%
Maximum	16.60	1047.80	37.32	941.10	21.30	962.07	27.60	949.93	81.47	950.13
Minimum	7.20	1038.40	33.00	936.48	12.40	954.11	3.00	925.33	57.45	926.11

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October, 1999.

Well/TOC	MW88-5	1054.28	MW88-6	1058.41	MW88-7	1061.45	MW91-8	1060.82	MW91-9	1061.12
	Water Depth	Water Elevation	Water Depth	Water Elevation	Water Depth	Water Elevation	Water Depth	Water Elevation	Water Depth	Water Elevation
12/07/88	32.86	1021.42	4.07	1054.34	11.50	1049.95				
05/31/89	38.50	1015.78	8.50	1049.91	11.00	1050.45				
06/05/89	49.00	1005.28	5.00	1053.41	13.75	1047.7				
09/13/89	39.66	1014.62	6.17	1052.24	12.50	1048.95				
03/27/90	41.30	1012.98	4.30	1054.11	9.40	1052.05				
04/06/90	44.75	1009.53	4.75	1053.66	10.50	1050.95				
09/20/90	34.80	1019.48	5.80	1052.61	7.30	1054.15				
04/17/91	36.00	1018.28	3.40	1055.01	4.60	1056.85				
09/25/91	45.90	1008.38	7.00	1051.41	8.80	1052.65				
01/10/92	46.10	1008.18	5.80	1052.61		1061.45	7.30	1053.52	4.00	1057.12
01/17/92							7.95	1052.87	4.85	1056.27
01/24/92							7.30	1053.52	4.40	1056.72
01/31/92							7.40	1053.42	5.25	1055.87
02/07/92							7.40	1053.42	5.10	1056.02
02/21/92							7.10	1053.72	4.00	1057.12
03/02/1992	45.60	1008.68	5.25	1053.16	4.25	1057.2	7.00	1053.82	4.40	1056.72
03/13/92	45.45	1008.83	4.85	1053.56	3.80	1057.65	6.60	1054.22	4.30	1056.82
03/27/92	45.50	1008.78	5.70	1052.71	4.50	1056.95	6.80	1054.02	4.70	1056.42
04/26/92	45.40	1008.88	5.30	1053.11	4.00	1057.45	7.05	1053.77	4.35	1056.77
09/22/92	49.10	1005.18	7.40	1051.01	5.00	1056.45				
06/11/93	48.00	1006.28	5.00	1053.41	4.25	1057.2				
09/30/93	48.10	1006.18	5.10	1053.31	4.20	1057.25	6.50	1054.32	4.40	1056.72
12/09/93	49.30	1004.98	6.60	1051.81	4.90	1056.55				
04/07/94	50.80	1003.48	7.00	1051.41	4.90	1056.55				
05/23/94										
06/06/94										
06/08/94	50.95	1003.33			4.60	1056.85	9.60	1051.22		
09/21/94	51.90	1002.38	8.00	1050.41	5.60	1055.85	6.80	1054.02	9.70	1051.42
11/01/94	52.10	1002.18	6.60	1051.81	5.04	1056.41	6.20	1054.62	8.30	1052.82
12/05/94	51.40	1002.88	7.50	1050.91	5.00	1056.45	7.30	1053.52	9.30	1051.82
03/02/95	51.50	1002.78	7.65	1050.76	4.90	1056.55	7.38	1053.44		1061.12
06/22/95	49.40	1004.88	6.68	1051.73			6.30	1054.52	9.35	1051.77
09/13/95	49.9	1004.38	8.72	1049.69	5.6	1055.85	8.21	1052.61	14.5	1046.62
03/21/96	dry	dry	8	1050.41	5.1	1056.35	7.4	1053.42	9.5	1051.62
05/03/96	dry	dry			5.25	1056.2	6.95	1053.87		
09/03/96			6.69	1051.72	5.15	1056.3	6.7	1054.12	8.65	1052.47
01/06/1997	54.25	1000.03	6.17	1052.24	4.6	1056.85	5.5	1055.32	frozen	frozen
03/19/1997	49.85	1004.43	5.7	1052.71	4.3	1057.15	4.85	1055.97	8.75	1052.37
06/18/1997	49.9	1004.38								
09/01/1997	51.05	1003.23	8.5	1049.91	6.2	1055.25	8.45	1052.37	9.4	1051.72
03/03/1998	52.75	1001.53	5.65	1052.76	3.75	1057.7	4.5	1056.32	7.7	1053.42
07/30/1998	48.2	1006.08	NT	NT	NT	NT	5.6	1055.22	NT	NT
08/25/1998	48.6	1005.68	NT	NT	NT	NT	9.6	1051.22	NT	NT
09/15/1998	49.3	1004.98	NT	NT	NT	NT	7.5	1053.32	NT	NT
10/29/1999	52.25	1002.03	NT	NT	7.1	1056.39	8.6	1052.22	NT	NT
12/27/1999	53.21	1001.07	NT	NT	7.17	1056.32	9.2	1051.62	NT	NT
03/14/2000	52.65	1001.63	7.35	1051.06	6.45	1057.04	7	1053.82	9.15	1051.97
06/29/2000	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
09/18/2000	52.31	1001.97	9.25	1049.16	8.44	1055.05	9.66	1051.16	11.04	1050.08
12/20/2000	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
02/08/2001	53.91	1000.37	NT	NT	7.5	1055.99	8.56	1052.26	NT	NT
03/22/2001	51.64	1002.64	NT	NT	6.4	1057.09	7.3	1053.52	NT	NT
09/20/2001	53.5	1000.78	5.5	1052.91	6.35	1057.14	7.15	1053.67	7.25	1053.87
03/15/2002	53.9	1000.38	4.3	1054.11	4.8	1058.69	6.05	1054.77	5.85	1055.27
09/16/2002	53.35	1000.93	6	1052.41	6.6	1056.89	8	1052.82	7.8	1053.32
03/11/2003	54.1	1000.18	7.5	1050.91	6.9	1056.59	9.4	1051.42	9.2	1051.92
09/16/2003	51.93	1002.35	NT	NT	7.73	1055.76	7.9	1052.92	NT	NT
03/09/2004	50.49	1003.79	NT	NT	4.19	1059.3	4.16	1056.66	NT	NT
09/14/2004	52.35	1001.93	NT	NT	7	1056.49	6.25	1054.57	NT	NT
03/04/2005	51.95	1002.33	4.21	1054.2	4.94	1058.55	6.21	1054.61	5.96	1055.16
09/15/2005	52.52	1001.76	5.81	1052.6	6.19	1057.3	7.81	1053.01	7.56	1053.56

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Well/TOC MW88-5 1054.28 MW88-6 1058.41 MW88-7 1061.45 MW91-8 1060.82 MW91-9 1061.12
1063.49

	Water Depth	Water Elevation	Water Depth	Water Elevation	Water Depth	1063.24 Water Elevation	Water Depth	Water Elevation	Water Depth	Water Elevation
02/08/2006	51.89	1002.39	NT	NT	5.41	1058.08	6.86	1053.96	NT	NT
03/29/2006	52.09	1002.19	3.1	1055.31	4.1	1059.39	4.98	1055.84	4.78	1056.34
09/13/2006	50.6	1003.68	2.03	1056.38	4.52	1058.97	4.1	1056.72	3.85	1057.27
03/29/2007	51.53	1002.75	1.43	1056.98	4.18	1059.31	3.4	1057.42	3.16	1057.96
09/13/2007	51.98	1002.3	4.6	1053.81	5.75	1057.74	6.58	1054.24	6.37	1054.75
03/17/2008	51.35	1002.93	1.45	1056.96	4.5	1058.99	3.25	1057.57	3.1	1058.02
06/02/2008	NT	NT	NT	NT	4.45	1059.04	2.91	1057.91	NT	NT
07/21/2008	50	1004.28	0.6	1057.81	3.05	1060.44	2.5	1058.32	2.35	1058.77
09/12/2008	50.6	1003.68	NT	NT	7.9	1055.59	7.42	1053.4	NT	NT
12/18/2008	51.35	1002.93	3.7	1054.71	6.75	1056.74	5.8	1055.02	5.5	1055.62
03/04/2009	51.65	1002.63	2.3	1056.11	7.1	1056.39	6.45	1054.37	6.1	1055.02
05/04/2009	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
07/01/2009	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
09/20/2009	52.25	1002.03	5.35	1053.06	7.86	1055.63	5.45	1055.37	7.1	1054.02
03/26/2010	50.9	1003.38	2.55	1055.86	4.4	1059.09	4.6	1056.22	4.35	1056.77
09/17/2010	50.65	1003.63	2.8	1055.61	5.3	1058.19	7.4	1053.42	4.7	1056.42
03/29/2011	51.9	1002.38	4.1	1054.31	5.8	1057.69	6.3	1054.52	6.1	1055.02
09/13/2011	52.6	1001.68	6.6	1051.81	8.05	1055.44	8.1	1052.72	8.3	1052.82
03/06/2012	53.25	1001.03	5	1053.41	5.7	1057.79	6.6	1054.22	6.5	1054.62
09/11/2012	55	999.28	8.9	1049.51	11.5	1051.99	10.75	1050.07	11.65	1049.47
03/19/2013	55.85	998.43	2	1056.41	5.4	1058.09	3.75	1057.07	3.65	1057.47
09/26/2013	53.78	1000.5	7.6	1050.81	10.88	1052.61	9.45	1051.37	9.25	1051.87
03/12/2014	55.95	998.33	3	1055.41	9.2	1054.29	4.6	1056.22	4.7	1056.42
09/18/2014	52.2	1002.08	2.5	1055.91	5.55	1057.94	4.75	1056.07	4.45	1056.67
03/17/2015	51.75	1002.53	3.4	1055.01	5.4	1058.09	5.4	1055.42	5.3	1055.82
09/11/2015	51.44	1002.84	1.85	1056.56	4.45	1059.04	3.98	1056.84	3.8	1057.32
03/16/2016	51.25	1003.03	2.9	1055.51	4.67	1058.82	4.9	1055.92	4.85	1056.27
09/08/2016	52.4	1001.88	2.16	1056.25	4.11	1059.38	4.04	1056.78	3.97	1057.15
03/17/2017	51.95	1002.33	3.22	1055.19	5.7	1057.54	4.85	1055.97	5.11	1056.01
09/19/2017	53.87	1000.41	6.97	1051.44	9.8	1053.44	9.05	1051.77	8.81	1052.31
03/08/2018	52.92	1001.36	2.85	1055.56	5.3	1057.94	4.86	1055.96	4.75	1056.37
09/24/2018	52.1	1002.18	3.7	1054.71	6.19	1057.05	5.68	1055.14	5.58	1055.54
03/25/2019	51.81	1002.47	2.07	1056.34	4.49	1058.75	4.06	1056.76	3.96	1057.16
09/03/2019	51.48	1002.8	5.85	1052.56	8.3	1054.94	7.84	1052.98	7.71	1053.41
03/23/2020	51.67	1002.61	1.6	1056.81	3.85	1059.39	3.55	1057.27	3.5	1057.62
09/04/2020	53.9	1000.38	8.36	1050.05	10.38	1052.86	10.32	1050.5	10.21	1050.91
03/09/2021	54.62	999.66	1.79	1056.62	4.11	1059.13	3.65	1057.17	3.65	1057.47
09/07/2021	54.08	1000.2	7.3	1051.11	9.18	1054.06	10.27	1050.55	9.15	1051.97
03/28/2022	55.15	999.13	2.28	1056.13	4.12	1059.12	4.25	1056.57	4.15	1056.97
09/14/2022	51.3	1002.98	7.32	1051.09	9.38	1053.86	9.3	1051.52	9.19	1051.93
03/20/2023	54.87	999.41	1.52	1056.89	4.4	1058.84	3.59	1057.23	3.4	1057.72
09/12/2023	53.49	1000.79	5.76	1052.65	9.26	1053.98	7.89	1052.93	7.95	1053.17
03/12/2024	55.43	998.85	4.59	1053.82	7.28	1055.96	6.7	1054.12	6.45	1054.67
09/30/2024	54.58	999.7	7.12	1051.29	10.35	1052.89	9.23	1051.59	8.99	1052.13
03/24/2025	56.18	998.1	2.21	1056.2	3.77	1059.47	4.23	1056.59	4.15	1056.97
09/09/2025	51.71	1002.57	3.35	1055.06	6.8	1056.44	5.49	1055.33	5.28	1055.84

Average	50.57	1003.71	5.01	1053.40	6.34	1056.45	6.55	1054.27	6.35	1054.86
Std. Dev.	4.36	4.36	2.19	2.19	2.31	2.52	1.91	1.91	2.48	2.57
	8.62%	0.43%	43.82%	0.21%	36.45%	0.24%	29.21%	0.18%	38.98%	0.24%
Maximum	56.18	1021.42	9.25	1057.81	13.75	1061.45	10.75	1058.32	14.50	1061.12
Minimum	32.86	998.10	0.60	1049.16	3.05	1047.70	2.50	1050.07	2.35	1046.62

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Well/TOC	MW91-10	1056.8	MW91-11	1056.58	MW94-15	1064.45	MW94-18	1058.85	MW94-19	966.9
						1069.59				970.9
	Water Depth	Water Elevation	Water Depth	Water Elevation	MW02-15A Water Depth	1105.3 Water Elevation	Water Depth	Water Elevation	Water Depth	Water Elevation
12/07/88										
05/31/89					Note: well was extended October, 1999.				Note: well was extended October, 1999.	
06/05/89										
09/13/89										
03/27/90										
04/06/90										
09/20/90										
04/17/91										
09/25/91										
01/10/92	8.90	1047.9	30.50	1026.08						
01/17/92	7.95	1048.85	9.55	1047.03						
01/24/92	8.40	1048.4	9.80	1046.78						
01/31/92	9.10	1047.7	10.05	1046.53						
02/07/92	9.30	1047.5	10.40	1046.18						
02/21/92	8.60	1048.2	10.40	1046.18						
03/02/1992	8.45	1048.35	9.80	1046.78						
03/13/92	7.30	1049.5	8.25	1048.33						
03/27/92	8.00	1048.8	9.50	1047.08						
04/26/92	7.80	1049	9.00	1047.58						
09/22/92										
06/11/93										
09/30/93	8.10	1048.7	8.95	1047.63						
12/09/93										
04/07/94										
05/23/94					6.00	1058.45	8.40	1050.45		
06/06/94					6.20	1058.25	9.30	1049.55		
06/08/94	11.80	1045			5.95	1058.5	9.10	1049.75		
09/21/94	12.50	1044.3	13.50	1043.08	7.44	1057.01	10.24	1048.61	22.24	944.66
11/01/94	10.50	1046.3	11.80	1044.78	5.90	1058.55	9.20	1049.65		
12/05/94	11.80	1045	12.96	1043.62	6.14	1058.31	9.60	1049.25	19.90	947
03/02/95	12.15	1044.65	13.38	1043.2	6.06	1058.39	9.54	1049.31	21.20	945.7
06/22/95	9.64	1047.16	10.30	1046.28	6.00	1058.45	8.85	1050	19.10	947.8
09/13/95	11.37	1045.43	12.26	1044.32	7.3	1057.15	9.9	1048.95	20.81	946.09
03/21/96	12.6	1044.2	13.85	1042.73	6.4	1058.05	9.6	1049.25	22.70	944.2
05/03/96	12.3	1044.5					9.67	1049.18		
09/03/96	10.75	1046.05	11.6	1044.98	6.6	1057.85	9.2	1049.65		
01/06/1997	10.00	1046.8	10.3	1046.28	5.8	1058.65	8.5	1050.35	19.88	947.02
03/19/1997	9.50	1047.3	10.3	1046.28	5.6	1058.85	8.43	1050.42	18.06	948.84
06/18/1997									17.8	949.1
09/01/1997	12.22	1044.58	13.3	1043.28	7.9	1056.55	9.95	1048.9	19.8	947.1
03/03/1998	10.90	1045.9	12.65	1043.93	5.67	1058.78	8.5	1050.35	22	944.9
07/30/1998	8.20	1048.6	NT	NT	6	1058.45	8.6	1050.25	17.2	949.7
08/25/1998	10.30	1046.5	NT	NT	7	1057.45	9	1049.85	17.8	949.1
09/15/1998	13.40	1043.4	NT	NT	8	1056.45	9.7	1049.15	19.9	947
10/29/1999	13.00	1043.8	NT	NT	10.2	1059.39	9.6	1049.25	25.7	945.2
12/27/1999	13.10	1043.7	NT	NT	11.2	1058.39	10.25	1048.6	25.2	945.7
03/14/2000	13.00	1043.8	13.9	1042.68	10.15	1059.44	10.2	1048.65	26.5	944.4
06/29/2000	NT	NT	NT	NT	9.7	1059.89	NT	NT	NT	NT
09/18/2000	13.90	1042.9	14.99	1041.59	10.87	1058.72	11.45	1047.4	25.6	945.3
12/20/2000	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
02/08/2001	13.10	1043.7	NT	NT	12	1057.59	10.14	1048.71	27.51	943.39
03/22/2001	11.46	1045.34	NT	NT	11.15	1058.44	9.39	1049.46	26.96	943.94
09/20/2001	13.40	1043.4	14.65	1041.93	10.45	1059.14	10.4	1048.45	27.65	943.25
03/15/2002	13	1043.8	14.5	1042.08	10.9	1058.69	10.1	1048.75	29.45	941.45
09/16/2002	13.8	1043	14.42	1042.16	45.95	1059.35	10.6	1048.25	28.6	942.3
03/11/2003	14.45	1042.35	15.3	1041.28	48.2	1057.1	10.1	1048.75	30	940.9
09/16/2003	14.51	1042.29	NT	NT	46.76	1058.54	10.83	1048.02	29.49	941.41
03/09/2004	11.85	1044.95	NT	NT	43.79	1061.51	9.1	1049.75	30.29	940.61
09/14/2004	12.9	1043.9	NT	NT	45.6	1059.7	10.15	1048.7	29.8	941.1
03/04/2005	12.05	1044.75	13.25	1043.33	42.03	1063.27	9.8	1049.05	29.73	941.17
09/15/2005	13.16	1043.64	14.19	1042.39	46.1	1059.2	10.06	1048.79	29.05	941.85

Well/TOC	MW91-10	1056.8	MW91-11	1056.58	MW94-15	1064.45	MW94-18	1058.85	MW94-19	966.9
						1069.59				970.9

Average	11.55	1045.25	12.94	1043.64	31.89	1059.86	9.74	1049.11	25.44	943.13
Std. Dev.	1.86	1.86	2.74	2.74	17.62	2.23	0.84	0.84	3.60	3.12
	16.11%	0.18%	21.20%	0.26%	55.25%	0.21%	8.66%	0.08%	14.15%	0.33%
Maximum	15.03	1049.50	30.50	1048.33	50.30	1064.68	12.15	1050.53	30.29	949.70
Minimum	7.30	1041.77	8.25	1026.08	5.60	1055.00	8.32	1046.70	17.20	936.80

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Well/TOC MW96-21 1011.06 MW96-22 988.73 MW96-23 986.39 MW96-24 988.56 MW98-25 1059.38
1007.33

	Water Depth	Water Elevation	Water Depth	Water Elevation	Water Depth	Water Elevation	Water Depth	Water Elevation	Water Depth	Water Elevation	
12/07/88											
05/31/89					Note: well was extended						
06/05/89					October, 1999.						
09/13/89											
03/27/90											
04/06/90											
09/20/90											
04/17/91											
09/25/91											
01/10/92											
01/17/92											
01/24/92											
01/31/92											
02/07/92											
02/21/92											
03/02/1992											
03/13/92											
03/27/92											
04/26/92											
09/22/92											
06/11/93											
09/30/93											
12/09/93											
04/07/94											
05/23/94											
06/06/94											
06/08/94											
09/21/94											
11/01/94											
12/05/94											
03/02/95											
06/22/95											
09/13/95											
03/21/96											
05/03/96											
09/03/96											
01/06/1997	87.53	923.53	51.35	937.38	30.55	955.84	64.95	923.61			
03/19/1997	87.05	924.01	49	939.73	30.35	956.04	64.3	924.26			
06/18/1997	87.2	923.86	50.67	938.06	30.3	956.09	64.5	924.06			
09/01/1997	87.2	923.86	52.6	936.13	30.5	955.89	64.45	924.11			
03/03/1998	87.2	923.86	52.55	936.18	30.71	955.68	64.5	924.06	5.9	1053.48	
07/30/1998	87.8	923.26	64.5	924.23	29.1	957.29	44.5	944.06	6.1	1053.28	
08/25/1998	86.8	924.26	77.3	911.43	30.3	956.09	50.2	938.36	6.2	1053.18	
09/15/1998	87.2	923.86	52.55	936.18	30.3	956.09	64.45	924.11	7	1052.38	
10/29/1999	87.44	923.62	64.74	923.99	52.04	955.29	52.83	935.73	6.7	1052.68	
12/27/1999	87.35	923.71	64.65	924.08	51.85	955.48	52.7	935.86	6.55	1052.83	
03/14/2000	87.15	923.91	52.75	935.98	51.7	955.63	64.5	924.06	6.2	1053.18	
06/29/2000	NT	NT	NT	NT	NT	NT	NT	NT	5.98	1053.4	
09/18/2000	87.48	923.58	52.71	936.02	51.97	955.36	64.82	923.74	7.83	1051.55	
12/20/2000	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	
02/08/2001	87.19	923.87	52.65	936.08	51.9	955.43	64.5	924.06	6.4	1052.98	
03/22/2001	87.23	923.83	52.6	936.13	51.9	955.43	64.09	924.47	6.4	1052.98	
09/20/2001	87.35	923.71	52.7	936.03	51.7	955.63	64.65	923.91	6.2	1053.18	
03/15/2002	87.7	923.36	52.6	936.13	52.4	954.93	65.2	923.36	6.42	1052.96	
09/16/2002	87.6	923.46	52.6	936.13	52	955.33	64.8	923.76	6.5	1052.88	
03/11/2003	87.65	923.41	52.55	936.18	52.15	955.18	64.9	923.66	5.6	1053.78	
09/16/2003	87.7	923.36	52.53	936.2	ddry	dry	65.03	923.53	6.95	1052.43	
03/09/2004	87.9	923.16	52.97	935.76	ddry	dry	65.32	923.24	6.06	1053.32	
09/14/2004	87.9	923.16	dry	dry	ddry	dry	65.15	923.41	6.6	1052.78	
03/04/2005	88.1	922.96	dry	dry		52.1	955.23	65.4	923.16	6.33	1053.05
09/15/2005	88.06	923	52.94	935.79	52.58	954.75	65.39	923.17	7.36	1052.02	

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Well/TOC MW96-21 1011.06 MW96-22 988.73 MW96-23 986.39 MW96-24 988.56 MW98-25 1059.38
1007.33

	Water Depth	Water Elevation	Water Depth	Water Elevation	Water Depth	Water Elevation	Water Depth	Water Elevation	Water Depth	Water Elevation
02/08/2006	87.93	923.13	52.95	935.78	52.53	954.8	65.2	923.36	7.56	1051.82
03/29/2006	88.2	922.86	dry	dry	52.4	954.93	65.5	923.06	6.47	1052.91
09/13/2006	88.08	922.98	52.96	935.77	52.5	954.83	65.43	923.13	7.05	1052.33
03/29/2007	88.24	922.82	dry	dry	52.54	954.79	65.63	922.93	6.7	1052.68
09/13/2007	88.1	922.96	DRY	DRY	52.65	954.68	65.45	923.11	5.85	1053.53
03/17/2008	87.9	923.16	DRY	DRY	52.7	954.63	65.25	923.31	6.4	1052.98
06/02/2008	87.68	923.38	DRY	DRY	51.9	955.43	64.96	923.6	5.22	1054.16
07/21/2008	87.55	923.51	DRY	DRY	52.2	955.13	64.95	923.61	6.2	1053.18
09/12/2008	87.45	923.61	DRY	DRY	52.2	955.13	64.79	923.77	7.05	1052.33
12/18/2008	87.4	923.66	DRY	DRY	52.2	955.13	64.7	923.86	6.32	1053.06
03/04/2009	87.17	923.89	DRY	DRY	51.8	955.53	64.28	924.28	6.4	1052.98
05/04/2009	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
07/01/2009	NT	NT	NT	NT	NT	NT	64.6	923.96	NT	NT
09/20/2009	86.95	924.11	DRY	DRY	51.85	955.48	64.2	924.36	6.92	1052.46
03/26/2010	87.2	923.86	DRY@52.8	DRY	51.8	955.53	64.4	924.16	6.25	1053.13
09/17/2010	87.2	923.86	52.5	936.23	51.9	955.43	64.35	924.21	5.85	1053.53
03/29/2011	87.2	923.86	52.6	936.13	52.2	955.13	64.3	924.26	6.1	1053.28
09/13/2011	87.1	923.96	52.6	936.13	52.1	955.23	64.3	924.26	6.6	1052.78
03/06/2012	86.9	924.16	53.2	935.53	51.6	955.73	64	924.56	5.4	1053.98
09/11/2012	87.2	923.86	53.2	935.53	52	955.33	64.4	924.16	8.25	1051.13
03/19/2013	87.6	923.46	52.6	936.13	52.05	955.28	64.85	923.71	5.75	1053.63
09/26/2013	87.5	923.56	52.58	936.15	51.55	955.78	64.6	923.96	7.75	1051.63
03/12/2014	87.5	923.56	47.65	941.08	51.9	955.43	64.95	923.61	7.3	1052.08
09/18/2014	87.65	923.41	52.65	936.08	51.85	955.48	65.15	923.41	5.15	1054.23
03/17/2015	NR	NR	52.7	936.03	52.15	955.18	65.4	923.16	5.55	1053.83
09/11/2015	NR	NR	52.7	936.03	52.33	955	65	923.56	5.55	1053.83
03/16/2016	NR	NR	52.6	936.13	49.45	957.88	64.7	923.86	5.35	1054.03
09/08/2016	NR	NR	52.6	936.13	48.96	958.37	64.48	924.08	6.43	1052.95
03/17/2017	90.34	920.72	52.55	936.18	48.65	958.68	64.25	924.31	9.25	1050.13
09/19/2017	90.22	920.84	52.53	936.2	48.93	958.4	64.15	924.41	8.05	1051.33
03/08/2018	90.71	920.35	52.67	936.06	50.13	957.2	64.54	924.02	9.36	1050.02
09/24/2018	87.35	923.71	52.65	936.08	48.21	959.12	64.26	924.3	9.55	1049.83
03/25/2019	87.6	923.46	52.62	936.11	48.43	958.9	64.55	924.01	7.9	1051.48
09/03/2019	87.09	923.97	52.6	936.13	48.02	959.31	63.93	924.63	6.9	1052.48
03/23/2020	87.3	923.76	52.72	936.01	48.24	959.09	64.17	924.39	8.16	1051.22
09/04/2020	87.21	923.85	52.72	936.01	49.48	957.85	64.54	924.02	7.85	1051.53
03/09/2021	87.17	923.89	52.8	935.93	49.18	958.15	64.08	924.48	4.9	1054.48
09/07/2021	87.31	923.75	52.73	936	49.6	957.73	64.25	924.31	7.2	1052.18
03/28/2022	87.75	923.31	52.8	935.93	51.27	956.06	64.69	923.87	5.43	1053.95
09/14/2022	87.72	923.34	52.81	935.92	50.29	957.04	64.76	923.8	6.95	1052.43
03/20/2023	87.48	923.58	52.85	935.88	50.64	956.69	64.58	923.98	5.5	1053.88
09/12/2023	87.66	923.4	51.12	937.61	49.8	957.53	54.75	933.81	6.84	1052.54
03/12/2024	87.64	923.42	53.2	935.53	50.19	957.14	64.72	923.84	5.79	1053.59
09/30/2024	87.81	923.25	52.9	935.83	49.8	957.53	64.91	923.65	7.28	1052.1
03/24/2025	88	923.06	52.87	935.86	51.2	956.13	65.12	923.44	5.25	1054.13
09/09/2025	87.93	923.13	52.9	935.83	49.89	957.44	64.99	923.57	6.38	1053

Average	87.65	923.41	53.59	935.14	48.56	956.16	63.71	924.85	6.61	1052.77
Std. Dev.	0.71	0.71	4.39	4.39	7.03	1.29	3.73	3.73	1.00	1.00
	0.81%	0.08%	8.19%	0.47%	14.49%	0.14%	5.86%	0.40%	15.06%	0.09%
Maximum	90.71	924.26	77.30	941.08	52.70	959.31	65.63	944.06	9.55	1054.48
Minimum	86.80	920.35	47.65	911.43	29.10	954.63	44.50	922.93	4.90	1049.83

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Well/TOC	MW98-26	1059.33	MW98-27	1063.18	MW98-28	1052.51	MW98-29	1068.86	MW98-30	1069.71
							MW02-29A	1088.7	MW02-30A	1088.7
	Water Depth	Water Elevation	Water Depth	Water Elevation	Water Depth	Water Elevation	Water Depth	Water Elevation	Water Depth	Water Elevation
12/07/88										
05/31/89										
06/05/89										
09/13/89										
03/27/90										
04/06/90										
09/20/90										
04/17/91										
09/25/91										
01/10/92										
01/17/92										
01/24/92										
01/31/92										
02/07/92										
02/21/92										
03/02/1992										
03/13/92										
03/27/92										
04/26/92										
09/22/92										
06/11/93										
09/30/93										
12/09/93										
04/07/94										
05/23/94										
06/06/94										
06/08/94										
09/21/94										
11/01/94										
12/05/94										
03/02/95										
06/22/95										
09/13/95										
03/21/96										
05/03/96										
09/03/96										
01/06/1997										
03/19/1997										
06/18/1997										
09/01/1997										
03/03/1998	48.8	1010.53	47.75	1015.43			9.7	1059.16	18.4	1051.31
07/30/1998	11.9	1047.43	NT	NT			6.2	1062.66	12.3	1057.41
08/25/1998	12	1047.33	NT	NT			8	1060.86	13	1056.71
09/15/1998	12.3	1047.03	NT	NT			9.2	1059.66	14.4	1055.31
10/29/1999	11.9	1047.43	NT	NT			9.1	1059.76	14.3	1055.41
12/27/1999	11.7	1047.63	NT	NT	127.2	925.31	9.9	1058.96	14.75	1054.96
03/14/2000	11.45	1047.88	47.3	1015.88	127.1	925.41	10	1058.86	15.58	1054.13
06/29/2000	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
09/18/2000	12.76	1046.57	48.03	1015.15	127.16	925.35	10.78	1058.08	16.42	1053.29
12/20/2000	NT	NT	NT	NT	NT	NT	11.37	1057.49	NT	NT
02/08/2001	NT	NT	NT	NT	127.04	925.47	11.6	1057.26	NT	NT
03/22/2001	NT	NT	NT	NT	127.18	925.33	10.76	1058.1	NT	NT
09/20/2001	4.85	1054.48	47.38	1015.8	NT	NT	9.9	1058.96	16.15	1053.56
03/15/2002	7.35	1051.98	48.4	1014.78	127.4	925.11	11	1057.86	19.2	1050.51
09/16/2002	8.6	1050.73	47.9	1015.28	127.4	925.11	29.8	1058.9	32.55	1056.15
03/11/2003	7.38	1051.95	48.5	1014.68	127.5	925.01	31.4	1057.3	34.4	1054.3
09/16/2003	NT	NT	NT	NT	127.1	925.41	30.22	1058.48	NT	NT
03/09/2004	NT	NT	NT	NT	127.18	925.33	29.1	1059.6	NT	NT
09/14/2004	NT	NT	NT	NT	128	924.51	29.2	1059.5	32.1	NT
03/04/2005	9.75	1049.58	47.6	1015.58	127.79	924.72	29.03	1059.67	32.1	1056.6
09/15/2005	13.23	1046.1	47.66	1015.52	127.61	924.9	29.77	1058.93	32.33	1056.37

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Well/TOC	MW98-26	1059.33	MW98-27	1063.18	MW98-28	1052.51	MW98-29	1068.86	MW98-30	1069.71
							MW02-29A	1088.7	MW02-30A	1088.7

	Water Depth	Water Elevation	Water Depth	Water Elevation	Water Depth	Water Elevation	Water Depth	Water Elevation	Water Depth	Water Elevation
02/08/2006	NT	NT	NT	NT	127.39	925.12	29.33	1059.37	NT	NT
03/29/2006	10.96	1048.37	47.53	1015.65	127.8	924.71	29	1059.7	32.34	1056.36
09/13/2006	11.7	1047.63	47.3	1015.88	127.25	925.26	28.42	1060.28	31.75	1056.95
03/29/2007	10.98	1048.35	46.53	1016.65	125.38	927.13	27.68	1061.02	31.19	1057.51
09/13/2007	12.3	1047.03	46.75	1016.43	38.3	1014.21	28.68	1060.02	31.7	1057
03/17/2008	11.5	1047.83	46.8	1016.38	126.05	926.46	29.2	1059.5	32.2	1056.5
06/02/2008	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
07/21/2008	11.15	1048.18	44.7	1018.48	NT	NT	27.6	1061.1	30.9	1057.8
09/12/2008	11.85	1047.48	45.53	1017.65	126.17	926.34	29.04	1059.66	31.56	1057.14
12/18/2008	11.3	1048.03	45.9	1017.28	126	926.51	28.8	1059.9	31.4	1057.3
03/04/2009	11.7	1047.63	46.4	1016.78	113.65	938.86	29	1059.7	31.9	1037.81
05/04/2009	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
07/01/2009	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
09/20/2009	11.75	1047.58	46.25	1016.93	126.05	926.46	29.5	1059.2	32.1	1037.61
03/26/2010	10.9	1048.43	45.3	1017.88	125.6	926.91	27.05	1061.65	30.3	1039.41
09/17/2010	11.3	1048.03	44.4	1018.78	112.6	939.91	28.3	1060.4	30.95	1038.76
03/29/2011	11.6	1047.73	46	1017.18	101.1	951.41	28.4	1060.3	31.35	1038.36
09/13/2011	12	1047.33	46.1	1017.08	46.95	1005.56	29.8	1058.9	32.25	1037.46
03/06/2012	11.3	1048.03	47.2	1015.98	125.55	926.96	29.9	1058.8	32.8	1036.91
09/11/2012	12.5	1046.83	48.3	1014.88	126	926.51	31.35	1057.35	33.75	1035.96
03/19/2013	12.4	1046.93	49.8	1013.38	126.3	926.21	31.6	1057.1	34.45	1035.26
09/26/2013	12.25	1047.08	48.15	1015.03	125.8	926.71	30.9	1057.8	33.27	1036.44
03/12/2014	12.45	1046.88	50	1013.18	126.25	926.26	32.8	1055.9	35	1034.71
09/18/2014	11.36	1047.97	47.65	1015.53	115.15	937.36	27.85	1060.85	30.75	1038.96
03/17/2015	11.25	1048.08	46.7	1016.48	17.1	1035.41	29.2	1059.5	31.8	1037.91
09/11/2015	10.2	1049.13	44.6	1018.58	11.25	1041.26	27.13	1061.57	30	1039.71
03/16/2016	4.9	1054.43	42.87	1020.31	109.9	942.61	27.1	1061.6	29.6	1040.11
09/08/2016	8.9	1050.43	44.45	1018.73	124.64	927.87	28.4	1060.3	30.53	1039.18
03/17/2017	10.82	1048.51	44.87	1018.31	124.81	927.7	27.4	1061.3	29.95	1039.76
09/19/2017	13	1046.33	46.22	1016.96	125.25	927.26	30.4	1058.3	32.52	1037.19
03/08/2018	12.6	1046.73	46.46	1016.72	124.48	928.03	29.75	1058.95	32.14	1037.57
09/24/2018	12.8	1046.53	45.34	1017.84	125.24	927.27	28.31	1060.39	30.9	1038.81
03/25/2019	13.12	1046.21	45.33	1017.85	90.74	961.77	27.34	1061.36	30.8	1038.91
09/03/2019	14.23	1045.1	44.91	1018.27	124.48	928.03	28.85	1059.85	30.95	1038.76
03/23/2020	13.24	1046.09	45.09	1018.09	121.84	930.67	25.95	1062.75	29.74	1039.97
09/04/2020	14.4	1044.93	46.76	1016.42	125.16	927.35	30.08	1058.62	31.99	1037.72
03/09/2021	12.11	1047.22	47.92	1015.26	125.48	927.03	29.59	1059.11	32.3	1037.41
09/07/2021	12.45	1046.88	46.86	1016.32	125.1	927.41	29.62	1059.08	32	1037.71
03/28/2022	10.7	1048.63	47.49	1015.69	125.36	927.15	28.31	1060.39	31.37	1038.34
09/14/2022	12.1	1047.23	46.45	1016.73	125.55	926.96	29.75	1058.95	31.8	1037.91
03/20/2023	11.04	1048.29	47.54	1015.64	125.5	927.01	28.26	1060.44	31.3	1038.41
09/12/2023	12.15	1047.18	48	1015.18	125.72	926.79	29.36	1059.34	31.59	1038.12
03/12/2024	11.28	1048.05	47.75	1015.43	125.66	926.85	29.55	1059.15	32	1037.71
09/30/2024	12.32	1047.01	47.21	1015.97	125.81	926.7	30.17	1058.53	32.3	1037.41
03/24/2025	10.92	1048.41	47.64	1015.54	125	927.51	28.65	1060.05	31.65	1038.06
09/09/2025	11.44	1047.89	45.08	1018.1	125.65	926.86	27.84	1060.86	30.15	1039.56

Average	12.02	1047.31	46.72	1016.46	116.92	935.59	25.10	1059.51	28.90	1044.94
Std. Dev.	5.28	5.28	1.41	1.41	25.96	25.96	7.91	1.33	6.35	8.70
	43.91%	0.50%	3.02%	0.14%	22.20%	2.77%	31.50%	0.13%	21.98%	0.83%
Maximum	48.80	1054.48	50.00	1020.31	128.00	1041.26	32.80	1062.75	35.00	1057.80
Minimum	4.85	1010.53	42.87	1013.18	11.25	924.51	6.20	1055.90	12.30	1034.71

Well/TOC	MW98-33	981.62	MW06-37	1060.75	MW06-38	1061.53	MW06-39	1060.78	MW09-40	1056.5
		981.49								

Average	59.58	922.03	6.93	1053.82	7.65	1053.88	6.68	1054.10	9.56	1046.94
Std. Dev.	1.06	1.08	1.74	1.74	1.82	1.82	1.85	1.85	1.83	1.83
	1.78%	0.12%	25.09%	0.16%	23.77%	0.17%	27.75%	0.18%	19.10%	0.17%
Maximum	61.87	925.75	10.45	1057.75	11.60	1057.63	10.46	1057.13	13.50	1050.10
Minimum	55.87	919.62	3.00	1050.30	3.90	1049.93	3.65	1050.32	6.40	1043.00

Table 4A
Background and GWPS Summary
Annual Water Quality Report
Boone County Sanitary Landfill
Permit No. 08-SDP-01-75P

Well/TOC MW16-42 977.24 MW21-43 978.29

	Water Depth	Water Elevation	Water Depth	Water Elevation
12/07/88				
05/31/89				
06/05/89				
09/13/89				
03/27/90				
04/06/90				
09/20/90				
04/17/91				
09/25/91				
01/10/92				
01/17/92				
01/24/92				
01/31/92				
02/07/92				
02/21/92				
03/02/1992				
03/13/92				
03/27/92				
04/26/92				
09/22/92				
06/11/93				
09/30/93				
12/09/93				
04/07/94				
05/23/94				
06/06/94				
06/08/94				
09/21/94				
11/01/94				
12/05/94				
03/02/95				
06/22/95				
09/13/95				
03/21/96				
05/03/96				
09/03/96				
01/06/1997				
03/19/1997				
06/18/1997				
09/01/1997				
03/03/1998				
07/30/1998				
08/25/1998				
09/15/1998				
10/29/1999				
12/27/1999				
03/14/2000				
06/29/2000				
09/18/2000				
12/20/2000				
02/08/2001				
03/22/2001				
09/20/2001				
03/15/2002				
09/16/2002				
03/11/2003				
09/16/2003				
03/09/2004				
09/14/2004				
03/04/2005				
09/15/2005				

Table 4A
Background and GWPS Summary
Annual Water Quality Report
Boone County Sanitary Landfill
Permit No. 08-SDP-01-75P

Well/TOC MW16-42 977.24 MW21-43 978.29

	Water Depth	Water Elevation	Water Depth	Water Elevation
02/08/2006				
03/29/2006				
09/13/2006				
03/29/2007				
09/13/2007				
03/17/2008				
06/02/2008				
07/21/2008				
09/12/2008				
12/18/2008				
03/04/2009				
05/04/2009				
07/01/2009				
09/20/2009				
03/26/2010				
09/17/2010				
03/29/2011				
09/13/2011				
03/06/2012				
09/11/2012				
03/19/2013				
09/26/2013				
03/12/2014				
09/18/2014				
03/17/2015				
09/11/2015				
03/16/2016	14.65	962.59		
09/08/2016	14.05	963.19		
03/17/2017	13.95	963.29		
09/19/2017	14.15	963.09		
03/08/2018	13.95	963.29		
09/24/2018	13.19	964.05		
03/25/2019	13.52	963.72		
09/03/2019	13.05	964.19		
03/23/2020	13.2	964.04		
09/04/2020	14.76	962.48		
03/09/2021				
09/07/2021				
03/28/2022			21.75	956.54
09/14/2022			20.69	957.6
03/20/2023			21.2	957.09
09/12/2023			20.07	958.22
03/12/2024			20.78	957.51
09/30/2024			20.13	958.16
03/24/2025			21.77	956.52
09/09/2025			20.06	958.23

Average	13.85	963.39	20.81	957.48
Std. Dev.	0.57	0.57	0.67	0.67
	4.10%	0.06%	3.20%	0.07%
Maximum	14.76	964.19	21.77	958.23
Minimum	13.05	962.48	20.06	956.52

Table 5 – Background and GWPS Summary

Table 5
Background and GWPS Summary
Annual Water Quality Report
Boone County Sanitary Landfill
Permit No. 08-SDP-01-75P

Interwell Background/(MW88-2, MW91-8, MW98-28, MW02-15A, and MW02-30A)

Inorganics - Appendix I										
Constituent	Units	Model Type	Samples - N	Detections	Mean	SD	Prediction Limit	Confidence	GWPS	Source
Antimony (Sb)	µg/l	nonparametric	120	4			4.5000	0.99	6	SS
Arsenic (As)	µg/l	nonparametric	119	34			50.6000	0.99	50.6000	Site
Barium (Ba)	µg/l	nonparametric	120	120			874.0000	0.99	2000	SS
Beryllium (Be)	µg/l	nonparametric	114	0			4.0000	0.99	4	SS
Cadmium (Cd)	µg/l	nonparametric	112	12			2.4000	0.99	5	SS
Chromium (Cr)	µg/l	nonparametric	114	6			18.6000	0.99	100	SS
Cobalt (Co)	µg/l	nonparametric	116	54			7.0000	0.99	7.0000	Site
Copper (Cu)	µg/l	nonparametric	114	12			19.5000	0.99	1300	SS
Lead (Pb)	µg/l	nonparametric	109	3			11.9000	0.99	15	SS
Nickel (Ni)	µg/l	nonparametric	117	43			17.4000	0.99	100	SS
Selenium (Se)	µg/l	nonparametric	120	5			9.0000	0.99	50	SS
Silver (Ag)	µg/l	nonparametric	120	0			4.0000	0.99	100	SS
Thallium (Tl)	µg/l	nonparametric	114	0			2.0000	0.99	2	SS
Vanadium (V)	µg/l	nonparametric	113	2			40.6000	0.99	40.6000	Site
Zinc (Zn)	µg/l	nonparametric	119	25			144.0000	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	120	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
Boone County Sanitary Landfill
Permit No. 08-SDP-01-75P

Well	Constituent	Date	Most recent result (ug/L)	Background Standard (ug/L)	Monitoring Program	GWPS
MW98-25	cobalt	3/24/2025	8.7	7.0	Supplemental Well	7
MW98-25	cobalt	9/9/2025	12.3	7.0	Supplemental Well	7
MW98-25	nickel	3/24/2025	19.20	17.4	Supplemental Well	100
MW98-25	nickel	9/9/2025	27.60	17.4	Supplemental Well	100
MW98-25	1,1-dichloroethane	3/24/2025	1.00	1.0	Supplemental Well	140
MW98-25	1,1-dichloroethane	9/9/2025	1.00	1.0	Supplemental Well	140
MW98-25	1,4-dichlorobenzene	3/24/2025	1.40	1.0	Supplemental Well	75
MW98-25	1,4-dichlorobenzene	9/9/2025	2.70	1.0	Supplemental Well	75
MW98-25	benzene	9/9/2025	1.40	1.0	Supplemental Well	5
MW98-25	chlorobenzene	9/9/2025	1.40	1.0	Supplemental Well	100
MW98-25	chloroethane	9/9/2025	1.40	1.0	Supplemental Well	2800
MW98-25	cis-1,2-DCE	3/24/2025	1.50	1.0	Supplemental Well	70
MW98-25	cis-1,2-DCE	9/9/2025	2.40	1.0	Supplemental Well	70
MW98-25	dichlorodifluoromethane	3/24/2025	2.0	1.0	Supplemental Well	1000
MW06-37	None	3/24/2025			AZPOC to MW98-25	
MW06-37	None	9/9/2025			AZPOC to MW98-25	
MW06-38	None	3/24/2025			AZPOC to MW98-25	
MW06-38	None	9/9/2025			AZPOC to MW98-25	
MW-06-39	None	3/24/2025			AZPOC to MW98-25	
MW-06-39	None	9/9/2025			AZPOC to MW98-25	
MW96-21	None	3/24/2025			Assessment Monitoring	
MW96-21	None	9/9/2025			Assessment Monitoring	

Table 7 – Summary of Ongoing and Newly Identified SSI

Table 7
Summary of Ongoing & Newly Identified SSI
Annual Water Quality Report
Boone County Sanitary Landfill
Permit No. 08-SDP-01-75P

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
MW96-21	cobalt	3/16/2016	---	1.5	---	3.2	3/17/2017	N/A	3/8/2018
MW96-21	cobalt	9/8/2016	---	1.5	---	3.2	3/17/2017	N/A	3/8/2018
MW96-21	cobalt	3/17/2017	1.8	1.5	1.724	3.2	3/17/2017	N/A	3/8/2018
MW96-21	cobalt	9/19/2017	<0.8	4.4	1.724	3.2	3/17/2017	N/A	3/8/2018
MW96-21	cobalt	3/8/2018	<0.8	4.8	1.724	3.2	3/17/2017	N/A	3/8/2018
MW96-21	cobalt	9/24/2018	---	4.8	1.724	3.2	3/17/2017	N/A	3/8/2018
MW96-21	cobalt	12/20/2018	1.1	4.8	1.724	3.2	3/17/2017	N/A	3/8/2018
MW96-21	cobalt	3/25/2019	1	4.8	0.878	3.2	3/17/2017	N/A	3/8/2018
MW96-21	cobalt	9/3/2019	2.5	4.8	0.799	3.2	3/17/2017	N/A	3/8/2018
MW96-21	cobalt	3/23/2020	2.5	3.2	0.436	3.2	3/17/2017	N/A	3/8/2018
MW96-21	cobalt	9/4/2020	2.5	3.2	0.622	3.2	3/17/2017	N/A	3/8/2018
MW96-21	cobalt	3/9/2021	<0.4	3.2	0.975	3.2	3/17/2017	N/A	3/8/2018
MW96-21	cobalt	9/7/2021	<0.4	3.2	0.330	3.2	3/17/2017	N/A	3/8/2018
MW96-21	cobalt	3/28/2022	79.4*	5.8	0.000	5.8	3/17/2017	N/A	3/8/2018
MW96-21	cobalt	9/14/2022	2.5	7.0	0.000	7.0	3/17/2017	N/A	3/8/2018
MW96-21	cobalt	3/20/2023	4.3	7.0	0.000	7.0	3/17/2017	N/A	3/8/2018
MW96-21	cobalt	9/12/2023	0.8	7.0	0.000	7.0	3/17/2017	N/A	3/8/2018
MW96-21	cobalt	3/12/2024	---	7.0	0.000	7.0	3/17/2017	N/A	3/8/2018
MW96-21	cobalt	9/30/2024	4.0	7.0	1.509	7.0	3/17/2017	N/A	3/8/2018
MW96-21	cobalt	3/24/2025	0.6	7.0	0.695	7.0	3/17/2017	N/A	3/8/2018
MW96-21	cobalt	9/9/2025	0.8	7.0	0.133	7.0	3/17/2017	N/A	3/8/2018

** sample collection error on 3/28/22. Turbidity was high and outside of measurable range. This data is dismissed.*

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 – not required

Table 9 – Analytical Data Summary

Table 9

Analytical Data Summary for GU-3

Constituents	Units	9/13/2021	12/3/2021	3/28/2022	9/15/2022	9/30/2024	12/8/2024	3/24/2025
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
1,1,2,2-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-dichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1
1,2,3-trichloropropane	ug/L	<1	<1		<1	<1	<1	<1
1,2-dibromo-3-chloropropane	ug/L	<5	<5		<5	<5	<5	<5
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
1,2-dichloropropane	ug/L	<1	<1	<1	<1	<1	<1	<1
1,4-dichlorobenzene	ug/L	<1.0	<1.0		<1.0	<1.0	1.2	1.1
2-butanone (mek)	ug/L	<5	<10		<10	<10	<10	<10
2-hexanone (mbk)	ug/L	<5	<5		<5	<5	<5	<5
4-methyl-2-pentanone (mibk)	ug/L	<5	<5		<5	<5	<5	<5
Acetone	ug/L	<10	<10		<10	<10	<10	<10
Acrylonitrile	ug/L	<5	<5		<5	<5	<5	<5
Aluminum, total	ug/L			269				
Antimony, total	ug/L	<2	<2		<2	<2	<2	<2
Arsenic, total	ug/L	6.1	9.1	6.0	6.3	<4.0	<4.0	<4.0
Barium, total	ug/L	478	415		365	488	683	719
Benzene	ug/L	1.3	6.0	6.2	6.1	6.0	7.8	7.8
Beryllium, total	ug/L	<4	<4	<4	<4	<4	<4	<4
BOD	mg/L			<14				
Boron, total	ug/L			285				
Bromochloromethane	ug/L	<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
Cadmium, total	ug/L	<8	<8	<8	<8	<8	<8	<8
Carbon disulfide	ug/L	<1	<1		<1	<1	<1	<1
Carbon tetrachloride	ug/L	<1	<1	<1	<1	<1	<1	<1
Chloride	mg/L			20.8				
Chlorobenzene	ug/L	<1.0	<1.0	1.8	1.7	1.3	1.8	1.6
Chloroethane	ug/L	1.4	2.0		1.6	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
Chromium, total	ug/L	<8	<8		<8	<8	<8	<8
Cis-1,2-dichloroethylene	ug/L	1.0	10.5		11.9	4.3	6.0	3.8
Cis-1,3-dichloropropene	ug/L	<1	<1		<1	<1	<1	<1
Cobalt, total	ug/L	4.5	2.7	1.4	2.8	<4	<4	<4
Copper, total	ug/L	6.5	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Dibromochloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1
Dibromomethane	ug/L	<1	<1		<1	<1	<1	<1
Ethylbenzene	ug/L	<1.0	<1.0	<1.0	1.8	<1.0	<1.0	<1.0
Fluoride	mg/L			.2				
Iron, total	ug/L			17000				
Lead, total	ug/L	5.1	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Lithium, total	ug/L			<50				
Manganese, Total	ug/L			637				
Methyl iodide	ug/L	<1	<1		<1	<1	<1	<1
Methylene chloride	ug/L	<5	<5		<5	<5	<5	<5
Molybdenum, total	ug/L			<4				
Nickel, total	ug/L	15.2	12.4	12.7	21.1	36.8	23.5	30.6
Nitrogen, ammonia	mg/L			3.63				
Nitrogen, Kjeldahl, total	mg/L			3.67				
Nitrogen, Nitrate+Nitrite	mg/L			.12				
Selenium, total	ug/L	<4	<4	<4	<4	<4	<4	<4
Silica, dissolved	ug/L			40000				
Silver, total	ug/L	<4	<4		<4	<4	<4	<4
Styrene	ug/L	<1	<1		<1	<1	<1	<1
Sulfate	mg/L			144				
Tetrachloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1
Thallium, total	ug/L	<2	<2		<2	<2	<2	<2
Toluene	ug/L	<1	<1	<1	<1	<1	<1	<1
Total suspended solids	mg/L			48				
Trans-1,2-dichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1
Trans-1,3-dichloropropene	ug/L	<1	<1		<1	<1	<1	<1
Trans-1,4-dichloro-2-butene	ug/L	<5	<5		<5	<5	<5	<5
Trichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	ug/L	<1	<1		<1	<1	<1	<1
Vanadium, total	ug/L	<20	<20	<20	<20	<20	<20	<20
Vinyl acetate	ug/L	<5	<5		<5	<5	<5	<5
Vinyl chloride	ug/L	<1.0	3.6	3.0	1.9	1.2	1.8	1.4
Xylenes, total	ug/L	<2	<2		<2	<2	<2	<2
Zinc, total	ug/L	32.9	<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 GU-4

Constituents	Units	8/30/2021	3/28/2022	6/23/2022	6/24/2022	9/14/2022	12/1/2022	3/20/2023	9/12/2023	3/12/2024
1,1,1,2-tetrachloroethane	ug/L	<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
1,1,2-trichloroethane	ug/L	<1				<1		<1	<1	<1
1,1-dichloroethane	ug/L	<1				<1		<1	<1	<1
1,1-dichloroethylene	ug/L	<1	<1		<1	<1		<1	<1	<1
1,2,3-trichloropropane	ug/L	<1				<1		<1	<1	<1
1,2-dibromo-3-chloropropane	ug/L	<5				<5		<5	<5	<5
1,2-dibromoethane	ug/L	<1				<1		<1	<1	<1
1,2-dichlorobenzene	ug/L	<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
2-butanone (mek)	ug/L	<5				<10		<10	<10	<10
2-hexanone (mbk)	ug/L	<5				<5		<5	<5	<5
4-methyl-2-pentanone (mibk)	ug/L	<5				<5		<5	<5	<5
Acetone	ug/L	<10				<10		<10	<10	<10
Acrylonitrile	ug/L	<5				<5		<5	<5	<5
Aluminum, total	ug/L		24800		<50					
Antimony, total	ug/L	<2				<2		<2	<2	<2
Arsenic, total	ug/L	<4.0	27.3		<4.0	<4.0		5.6	5.9	<4.0
Barium, total	ug/L	441				483		465	501	368
Benzene	ug/L	<1.0	1.4	<1.0	<1.0	<1.0		<1.0	<1.0	<1.0
Beryllium, total	ug/L	<4.0	<4.0		<4.0	<4.0		<4.0	<4.0	<4.0
BOD	mg/L		837		40					
Boron, total	ug/L		1830		485					
Bromochloromethane	ug/L	<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
Cadmium, total	ug/L	<8	1.2		<8	<8		<8	<8	<8
Carbon disulfide	ug/L	<1				<1		<1	<1	<1
Carbon tetrachloride	ug/L	<1	<1		<1	<1		<1	<1	<1
Chloride	mg/L		242.0		42.7					
Chlorobenzene	ug/L	<1	<1		<1	<1		<1	<1	<1
Chloroethane	ug/L	<1				<1		<1	<1	<1
Chloroform	ug/L	<1	<1		<1	<1		<1	<1	<1
Chloromethane	ug/L	<1				<1		<1	<1	<1
Chromium, total	ug/L	<8.0				<8.0		<8.0	<8.0	<8.0
Cis-1,2-dichloroethylene	ug/L	<1				<1		<1	<1	<1
Cis-1,3-dichloropropene	ug/L	<1				<1		<1	<1	<1
Cobalt, total	ug/L	1.3	24.9		.8	4.9		3.3	1.2	<4
Copper, total	ug/L	<4.0	42.8		<4.0	<4.0		5.5	<4.0	<4.0
Dibromochloromethane	ug/L	<1	<1		<1	<1		<1	<1	<1
Dibromomethane	ug/L	<1				<1		<1	<1	<1
Ethylbenzene	ug/L	<1	<1		<1	<1		<1	<1	<1
Fluoride	mg/L		.4		.2					
Iron, total	ug/L		40700		2840					
Lead, total	ug/L	<4.0	22.5		<4.0	<4.0		<4.0	<4.0	<4.0
Lithium, total	ug/L		83		<50					
Manganese, Total	ug/L		3630		560					
Methyl iodide	ug/L	<1				<1		<1	<1	<1
Methylene chloride	ug/L	<5				<5		<5	<5	<5
Molybdenum, total	ug/L		7.8		<4.0					
Nickel, total	ug/L	<4.0	93.2		7.4	4.3		12.1	4.4	<4.0
Nitrogen, ammonia	mg/L		44.5		10.4					
Nitrogen, Kjeldahl, total	mg/L		46.20		9.13					
Nitrogen, Nitrate+Nitrite	mg/L		.29		.61					
Selenium, total	ug/L	<4	<4		<4	<4		<4	<4	<4
Silica, dissolved	ug/L		39600		28900					
Silver, total	ug/L	<4				<4		<4	<4	<4
Styrene	ug/L	<1				<1		<1	<1	<1
Sulfate	mg/L		324		211					
Tetrachloroethylene	ug/L	<1	<1		<1	<1		<1	<1	<1
Thallium, total	ug/L	<2.0				<2.0		<2.0	<2.0	<2.0
Toluene	ug/L	<1.0	<1.0		<1.0	1.9	<1.0	<1.0	<1.0	<1.0
Total suspended solids	mg/L		13400		4					
Trans-1,2-dichloroethylene	ug/L	<1	<1		<1	<1		<1	<1	<1
Trans-1,3-dichloropropene	ug/L	<1				<1		<1	<1	<1
Trans-1,4-dichloro-2-butene	ug/L	<5				<5		<5	<5	<5
Trichloroethylene	ug/L	<1	<1		<1	<1		<1	<1	<1
Trichlorofluoromethane	ug/L	<1				<1		<1	<1	<1
Vanadium, total	ug/L	<20.0	69.3		<20.0	<20.0		<20.0	<20.0	<20.0
Vinyl acetate	ug/L	<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
Zinc, total	ug/L	131.0	1140.0		61.3	<20.0		131.0	47.2	70.7

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

Table 9

Analytical Data Summary for GU-4

Constituents	11/25/2024	3/24/2025	9/9/2025
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	<1	<1
1,1-dichloroethylene	<1	<1	<1
1,2,3-trichloropropane	<1	<1	<1
1,2-dibromo-3-chloropropane	<5	<5	<5
1,2-dibromoethane	<1	<1	<1
1,2-dichlorobenzene	<1	<1	<1
1,2-dichloroethane	<1	<1	<1
1,2-dichloropropane	<1	<1	<1
1,4-dichlorobenzene	<1	<1	<1
2-butanone (mek)	<10	<10	<10
2-hexanone (mbk)	<5	<5	<5
4-methyl-2-pentanone (mibk)	<5	<5	<5
Acetone	<10	<10	<10
Acrylonitrile	<5	<5	<5
Aluminum, total			
Antimony, total	<2	<1	<1
Arsenic, total	5.1	2.3	2.4
Barium, total	415	350	477
Benzene	<1.0	<1.0	<1.0
Beryllium, total	<4.0	<.5	<.5
BOD			
Boron, total			
Bromochloromethane	<1	<1	<1
Bromodichloromethane	<1	<1	<1
Bromoform	<1	<1	<1
Bromomethane	<1	<1	<1
Cadmium, total	<.8	.2	<.2
Carbon disulfide	<1	<1	<1
Carbon tetrachloride	<1	<1	<1
Chloride			
Chlorobenzene	<1	<1	<1
Chloroethane	<1	<1	<1
Chloroform	<1	<1	<1
Chloromethane	<1	<1	<1
Chromium, total	<8.0	7.6	<1.0
Cis-1,2-dichloroethylene	<1	<1	<1
Cis-1,3-dichloropropene	<1	<1	<1
Cobalt, total	.6	2.9	.8
Copper, total	<4.0	6.5	<5.0
Dibromochloromethane	<1	<1	<1
Dibromomethane	<1	<1	<1
Ethylbenzene	<1	<1	<1
Fluoride			
Iron, total			
Lead, total	<4.0	3.8	<1.0
Lithium, total			
Manganese, Total			
Methyl iodide	<1	<1	<1
Methylene chloride	<5	<5	<5
Molybdenum, total			
Nickel, total	7.2	9.5	<5.0
Nitrogen, ammonia			
Nitrogen, Kjeldahl, total			
Nitrogen, Nitrate+Nitrite			
Selenium, total	<4	<2	<2
Silica, dissolved			
Silver, total	<4	<5	<5
Styrene	<1	<1	<1
Sulfate			
Tetrachloroethylene	<1	<1	<1
Thallium, total	<2.0	<.5	<.5
Toluene	<1.0	<1.0	<1.0
Total suspended solids			
Trans-1,2-dichloroethylene	<1	<1	<1
Trans-1,3-dichloropropene	<1	<1	<1
Trans-1,4-dichloro-2-butene	<5	<5	<5
Trichloroethylene	<1	<1	<1
Trichlorofluoromethane	<1	<1	<1
Vanadium, total	<20.0	13.0	<2.0
Vinyl acetate	<5	<5	<5
Vinyl chloride	<1	<1	<1
Xylenes, total	<2	<2	<2
Zinc, total	262.0	243.0	34.1

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

Table 9

Analytical Data Summary for MW02-15A

Constituents	Units	3/13/2014	9/18/2014	11/13/2014	3/17/2015	6/29/2015	9/11/2015	3/16/2016	9/8/2016	3/17/2017
1,1,1,2-tetrachloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-trichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-trichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,3-trichloropropane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dibromo-3-chloropropane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dibromoethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichlorobenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloropropane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-dichlorobenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-butanone (mek)	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
2-hexanone (mbk)	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
4-methyl-2-pentanone (mibk)	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
Acetone	ug/L	<10	<10	<10	<10	<10	<10	<10	<10	<10
Acrylonitrile	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
Antimony, total	ug/L	<2	<2	<2	<2	<2	<2	<2	<2	<2
Arsenic, total	ug/L	<4	<4	<4	<4	<4	<4	<4	<4	<4
Barium, total	ug/L	39.3	33.4	33.1	30.2	28.7	34.8	40.4	44.8	43.5
Benzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Beryllium, total	ug/L	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Bromochloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromodichloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromoform	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromomethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cadmium, total	ug/L	<8	<8	<8	<8	<8	<8	3.6	<8	<8
Carbon disulfide	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon tetrachloride	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chromium, total	ug/L	<8	<8	<8	<8	<8	<8	<8	<8	<8
Cis-1,2-dichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cis-1,3-dichloropropene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cobalt, total	ug/L	<4.0	<8	<8	<8	<8	.8	<8	1.4	1.5
Copper, total	ug/L	<4.0	7.8	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Dibromochloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromomethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Lead, total	ug/L	<4.0	22.3	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Methyl iodide	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene chloride	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
Nickel, total	ug/L	6.4	10.4	<4.0	<4.0	5.6	8.3	10.3	14.0	11.9
Selenium, total	ug/L	<4	<4	<4	<4	<4	<4	<4	<4	<4
Silver, total	ug/L	<4	<4	<4	<4	<4	<4	<4	<4	<4
Styrene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Thallium, total	ug/L	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Toluene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total suspended solids	mg/L		7		6					
Trans-1,2-dichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,3-dichloropropene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,4-dichloro-2-butene	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
Trichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vanadium, total	ug/L	<20	<20	<20	<20	<20	<20	<20	<20	<20
Vinyl acetate	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
Vinyl chloride	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	ug/L	<2	<2	<2	<2	<2	<2	<2	<2	<2
Zinc, total	ug/L	<8.0	11.3	<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 MW02-15A

Constituents	9/19/2017	3/8/2018	9/24/2018	3/25/2019	9/3/2019	3/23/2020	9/4/2020	3/9/2021	9/7/2021	3/28/2022
1,1,1,2-tetrachloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-trichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-trichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,3-trichloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dibromo-3-chloropropane	<1	<1	<1	<1	<1	<5	<5	<5	<5	<5
1,2-dibromoethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-butanone (mek)	<5	<5	<5	<5	<5	<5	<5	<5	<5	<10
2-hexanone (mbk)	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
4-methyl-2-pentanone (mibk)	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Acetone	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Acrylonitrile	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Antimony, total	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Arsenic, total	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Barium, total	36.0	31.9	32.2	30.0	30.4	32.0	40.0	38.9	75.3	46.2
Benzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Beryllium, total	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Bromochloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromodichloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromoform	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromomethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cadmium, total	<.8	<.8	<.8	<.8	<.8	<.8	<.8	<.8	.9	<.8
Carbon disulfide	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon tetrachloride	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chromium, total	<8	<8	<8	<8	<8	<8	<8	<8	<8	<8
Cis-1,2-dichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cis-1,3-dichloropropene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cobalt, total	<.8	<.8	<.8	<.8	.9	1.6	2.8	5.8	5.7	3.2
Copper, total	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	26.0	<4.0	<4.0
Dibromochloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromomethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Lead, total	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Methyl iodide	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene chloride	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Nickel, total	<4.0	<4.0	5.7	9.9	9.1	9.7	9.9	9.6	17.3	11.3
Selenium, total	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Silver, total	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Styrene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Thallium, total	<4.0	<4.0	<4.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Toluene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total suspended solids										
Trans-1,2-dichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,3-dichloropropene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,4-dichloro-2-butene	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Trichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vanadium, total	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
Vinyl acetate	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Vinyl chloride	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Zinc, total	<8.0	9.3	<8.0	<8.0	<8.0	<20.0	<20.0	<20.0	<20.0	<20.0

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

Table 9

Analytical Data Summary for MW02-15A

Constituents	9/14/2022	3/20/2023	9/12/2023	3/12/2024	9/30/2024	3/24/2025	9/9/2025
1,1,1,2-tetrachloroethane	<1	<1	<1	<1	<1	<1	<1
1,1,1-trichloroethane	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	<1	<1	<1	<1	<1	<1	<1
1,1,2-trichloroethane	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethane	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethylene	<1	<1	<1	<1	<1	<1	<1
1,2,3-trichloropropane	<1	<1	<1	<1	<1	<1	<1
1,2-dibromo-3-chloropropane	<5	<5	<5	<5	<5	<5	<5
1,2-dibromoethane	<1	<1	<1	<1	<1	<1	<1
1,2-dichlorobenzene	<1	<1	<1	<1	<1	<1	<1
1,2-dichloroethane	<1	<1	<1	<1	<1	<1	<1
1,2-dichloropropane	<1	<1	<1	<1	<1	<1	<1
1,4-dichlorobenzene	<1	<1	<1	<1	<1	<1	<1
2-butanone (mek)	<10	<10	<10	<10	<10	<10	<10
2-hexanone (mbk)	<5	<5	<5	<5	<5	<5	<5
4-methyl-2-pentanone (mibk)	<5	<5	<5	<5	<5	<5	<5
Acetone	<10	<10	<10	<10	<10	<10	<10
Acrylonitrile	<5	<5	<5	<5	<5	<5	<5
Antimony, total	<2	<2	<2	<2	<2	<2	<1
Arsenic, total	<4	<4	<4	<4	<4	<4	<2
Barium, total	39.2	42.8	35.9	38.9	34.9	32.6	40.3
Benzene	<1	<1	<1	<1	<1	<1	<1
Beryllium, total	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<5
Bromochloromethane	<1	<1	<1	<1	<1	<1	<1
Bromodichloromethane	<1	<1	<1	<1	<1	<1	<1
Bromoform	<1	<1	<1	<1	<1	<1	<1
Bromomethane	<1	<1	<1	<1	<1	<1	<1
Cadmium, total	<.8	<.8	<.8	<.8	<.8	<.8	.3
Carbon disulfide	<1	<1	<1	<1	<1	<1	<1
Carbon tetrachloride	<1	<1	<1	<1	<1	<1	<1
Chlorobenzene	<1	<1	<1	<1	<1	<1	<1
Chloroethane	<1	<1	<1	<1	<1	<1	<1
Chloroform	<1	<1	<1	<1	<1	<1	<1
Chloromethane	<1	<1	<1	<1	<1	<1	<1
Chromium, total	<8	<8	<8	<8	<8	<8	3
Cis-1,2-dichloroethylene	<1	<1	<1	<1	<1	<1	<1
Cis-1,3-dichloropropene	<1	<1	<1	<1	<1	<1	<1
Cobalt, total	6.2	3.6	1.1	1.2	.9	.4	1.6
Copper, total	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<5.0
Dibromochloromethane	<1	<1	<1	<1	<1	<1	<1
Dibromomethane	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	<1	<1	<1	<1	<1	<1	<1
Lead, total	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<10
Methyl iodide	<1	<1	<1	<1	<1	<1	<1
Methylene chloride	<5	<5	<5	<5	<5	<5	<5
Nickel, total	8.8	9.8	8.4	6.6	6.3	4.4	9.8
Selenium, total	<4	<4	<4	<4	<4	<4	<2
Silver, total	<4	<4	<4	<4	<4	<4	<5
Styrene	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethylene	<1	<1	<1	<1	<1	<1	<1
Thallium, total	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5
Toluene	<1	<1	<1	<1	<1	<1	<1
Total suspended solids							
Trans-1,2-dichloroethylene	<1	<1	<1	<1	<1	<1	<1
Trans-1,3-dichloropropene	<1	<1	<1	<1	<1	<1	<1
Trans-1,4-dichloro-2-butene	<5	<5	<5	<5	<5	<5	<5
Trichloroethylene	<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	<1	<1	<1	<1	<1	<1	<1
Vanadium, total	<20	<20	<20	<20	<20	<20	<2
Vinyl acetate	<5	<5	<5	<5	<5	<5	<5
Vinyl chloride	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	<2	<2	<2	<2	<2	<2	<2
Zinc, total	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	17.6

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

Table 9

Analytical Data Summary for MW02-30A

Constituents	Units	3/16/2016	6/7/2016	9/8/2016	3/17/2017	9/19/2017	3/8/2018	9/24/2018	3/25/2019	9/3/2019
1,1,1,2-tetrachloroethane	ug/L		<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-trichloroethane	ug/L		<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	ug/L		<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-trichloroethane	ug/L		<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethane	ug/L		<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethylene	ug/L		<1	<1	<1	<1	<1	<1	<1	<1
1,2,3-trichloropropane	ug/L		<1	<1	<1	<1	<1	<1	<1	<1
1,2-dibromo-3-chloropropane	ug/L		<1	<1	<1	<1	<1	<1	<1	<1
1,2-dibromoethane	ug/L		<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichlorobenzene	ug/L		<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloroethane	ug/L		<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloropropane	ug/L		<1	<1	<1	<1	<1	<1	<1	<1
1,4-dichlorobenzene	ug/L		<1	<1	<1	<1	<1	<1	<1	<1
2-butanone (mek)	ug/L		<5	<5	<5	<5	<5	<5	<5	<5
2-hexanone (mbk)	ug/L		<5	<5	<5	<5	<5	<5	<5	<5
4-methyl-2-pentanone (mibk)	ug/L		<5	<5	<5	<5	<5	<5	<5	<5
Acetone	ug/L		<10	<10	<10	<10	<10	<10	<10	<10
Acrylonitrile	ug/L		<5	<5	<5	<5	<5	<5	<5	<5
Antimony, total	ug/L	<2	<2	<2	<2	<2	<2	<2	<2	<2
Arsenic, total	ug/L	43.9	34.2	37.5	30.0	24.3	25.7	26.2	30.9	32.7
Barium, total	ug/L	85.6	71.3	62.8	35.6	77.3	79.6	96.5	131.0	91.8
Benzene	ug/L		<1	<1	<1	<1	<1	<1	<1	<1
Beryllium, total	ug/L	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Bromochloromethane	ug/L		<1	<1	<1	<1	<1	<1	<1	<1
Bromodichloromethane	ug/L		<1	<1	<1	<1	<1	<1	<1	<1
Bromoform	ug/L		<1	<1	<1	<1	<1	<1	<1	<1
Bromomethane	ug/L		<1	<1	<1	<1	<1	<1	<1	<1
Cadmium, total	ug/L	<8	<8	<8	<8	<8	<8	<8	<8	<8
Carbon disulfide	ug/L		1.7	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Carbon tetrachloride	ug/L		<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzene	ug/L		<1	<1	<1	<1	<1	<1	<1	<1
Chloroethane	ug/L		<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	ug/L		<1	<1	<1	<1	<1	<1	<1	<1
Chloromethane	ug/L		<1	<1	<1	<1	<1	<1	<1	<1
Chromium, total	ug/L	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0
Cis-1,2-dichloroethylene	ug/L		<1	<1	<1	<1	<1	<1	<1	<1
Cis-1,3-dichloropropene	ug/L		<1	<1	<1	<1	<1	<1	<1	<1
Cobalt, total	ug/L	1.0	1.2	<8	<8	<8	<8	1.8	3.2	.8
Copper, total	ug/L	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	4.8	13.5	<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	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	8.9	<4.0
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	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	9.4	<4.0
Selenium, total	ug/L	<4	<4	<4	<4	<4	<4	<4	<4	<4
Silver, total	ug/L	<4	<4	<4	<4	<4	<4	<4	<4	<4
Styrene	ug/L		<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethylene	ug/L		<1	<1	<1	<1	<1	<1	<1	<1
Thallium, total	ug/L	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<2.0	<2.0
Toluene	ug/L		<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,2-dichloroethylene	ug/L		<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,3-dichloropropene	ug/L		<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,4-dichloro-2-butene	ug/L		<5	<5	<5	<5	<5	<5	<5	<5
Trichloroethylene	ug/L		<1	<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	ug/L		<1	<1	<1	<1	<1	<1	<1	<1
Vanadium, total	ug/L	<20	<20	<20	<20	<20	<20	<20	<20	<20
Vinyl acetate	ug/L		<5	<5	<5	<5	<5	<5	<5	<5
Vinyl chloride	ug/L		<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	ug/L		<2	<2	<2	<2	<2	<2	<2	<2
Zinc, total	ug/L	<8.0	8.7	9.9	<8.0	<8.0	<8.0	12.9	59.9	16.3

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

Table 9

Analytical Data Summary for MW02-30A

Constituents	3/23/2020	9/4/2020	3/9/2021	9/7/2021	3/28/2022	9/14/2022	3/20/2023	9/12/2023	3/12/2024
1,1,1,2-tetrachloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-trichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-trichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethylene	<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	<5	<5	<5	<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
1,4-dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-butanone (mek)	<5	<5	<5	<5	<10	<10	<10	<10	<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	29.1	43.5	27.6	36.6	34.4	50.6	50.1	27.9	44.3
Barium, total	102.0	93.4	81.5	88.2	93.4	159.0	207.0	71.8	120.0
Benzene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Beryllium, total	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Bromochloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromodichloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromoform	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromomethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cadmium, total	<.8	<.8	<.8	<.8	<.8	.8	1.8	<.8	<.8
Carbon disulfide	<1.0	<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	<1
Chlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chromium, total	<8.0	<8.0	<8.0	<8.0	<8.0	9.0	10.6	<8.0	<8.0
Cis-1,2-dichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cis-1,3-dichloropropene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cobalt, total	2.3	.4	1.5	<.4	.4	7.0	4.5	<.4	.6
Copper, total	9.3	<4.0	9.4	<4.0	<4.0	19.5	18.3	<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	7.0	<4.0	<4.0	<4.0	<4.0	14.8	22.3	<4.0	<4.0
Methyl iodide	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene chloride	<5	<5	<5	<5	<5	<5	<5	<5	<5
Nickel, total	7.0	<4.0	4.3	<4.0	<4.0	12.4	12.9	<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
Styrene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Thallium, total	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Toluene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,2-dichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,3-dichloropropene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,4-dichloro-2-butene	<5	<5	<5	<5	<5	<5	<5	<5	<5
Trichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vanadium, total	<20	<20	<20	<20	<20	<20	<20	<20	<20
Vinyl acetate	<5	<5	<5	<5	<5	<5	<5	<5	<5
Vinyl chloride	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	<2	<2	<2	<2	<2	<2	<2	<2	<2
Zinc, total	28.5	<20.0	<20.0	<20.0	<20.0	52.8	144.0	<20.0	<20.0

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

Table 9

Analytical Data Summary for MW02-30A

Constituents	9/30/2024	3/24/2025	9/9/2025
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	<1	<1
1,1-dichloroethylene	<1	<1	<1
1,2,3-trichloropropane	<1	<1	<1
1,2-dibromo-3-chloropropane	<5	<5	<5
1,2-dibromoethane	<1	<1	<1
1,2-dichlorobenzene	<1	<1	<1
1,2-dichloroethane	<1	<1	<1
1,2-dichloropropane	<1	<1	<1
1,4-dichlorobenzene	<1	<1	<1
2-butanone (mek)	<10	<10	<10
2-hexanone (mbk)	<5	<5	<5
4-methyl-2-pentanone (mibk)	<5	<5	<5
Acetone	<10	<10	<10
Acrylonitrile	<5	<5	<5
Antimony, total	<2	<2	<1
Arsenic, total	41.0	38.3	43.0
Barium, total	86.8	85.7	89.1
Benzene	<1	<1	<1
Beryllium, total	<4.0	<4.0	<5
Bromochloromethane	<1	<1	<1
Bromodichloromethane	<1	<1	<1
Bromoform	<1	<1	<1
Bromomethane	<1	<1	<1
Cadmium, total	<.8	<.8	<.2
Carbon disulfide	<1.0	<1.0	<1.0
Carbon tetrachloride	<1	<1	<1
Chlorobenzene	<1	<1	<1
Chloroethane	<1	<1	<1
Chloroform	<1	<1	<1
Chloromethane	<1	<1	<1
Chromium, total	<8.0	<8.0	<1.0
Cis-1,2-dichloroethylene	<1	<1	<1
Cis-1,3-dichloropropene	<1	<1	<1
Cobalt, total	<.4	<.4	<.5
Copper, total	<4.0	<4.0	<5.0
Dibromochloromethane	<1	<1	<1
Dibromomethane	<1	<1	<1
Ethylbenzene	<1	<1	<1
Lead, total	<4.0	<4.0	<1.0
Methyl iodide	<1	<1	<1
Methylene chloride	<5	<5	<5
Nickel, total	<4.0	<4.0	<5.0
Selenium, total	<4	<4	<2
Silver, total	<4	<4	<5
Styrene	<1	<1	<1
Tetrachloroethylene	<1	<1	<1
Thallium, total	<2.0	<2.0	<.5
Toluene	<1	<1	<1
Trans-1,2-dichloroethylene	<1	<1	<1
Trans-1,3-dichloropropene	<1	<1	<1
Trans-1,4-dichloro-2-butene	<5	<5	<5
Trichloroethylene	<1	<1	<1
Trichlorofluoromethane	<1	<1	<1
Vanadium, total	<20	<20	<2
Vinyl acetate	<5	<5	<5
Vinyl chloride	<1	<1	<1
Xylenes, total	<2	<2	<2
Zinc, total	<20.0	<20.0	6.3

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

Table 9

Analytical Data Summary for MW06-37

Constituents	Units	3/13/2014	9/19/2014	3/17/2015	9/11/2015	3/16/2016	9/8/2016	3/17/2017	9/19/2017	3/8/2018
1,1,1,2-tetrachloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-trichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-trichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,3-trichloropropane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dibromo-3-chloropropane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dibromoethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichlorobenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloropropane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-dichlorobenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-butanone (mek)	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
2-hexanone (mbk)	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
4-methyl-2-pentanone (mibk)	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
Acetone	ug/L	<10	<10	<10	<10	<10	<10	<10	<10	<10
Acrylonitrile	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
Antimony, total	ug/L	<2	<2	<2	<2	<2	<2	<2	<2	<2
Arsenic, total	ug/L	<4	<4	<4	<4	<4	<4	<4	<4	<4
Barium, total	ug/L	160	105	143	117	142	117	135	133	128
Benzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Beryllium, total	ug/L	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Bromochloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromodichloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromoform	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromomethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cadmium, total	ug/L	<8	<8	<8	<8	1.2	<8	1.6	<8	<8
Carbon disulfide	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon tetrachloride	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chromium, total	ug/L	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0
Cis-1,2-dichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cis-1,3-dichloropropene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cobalt, total	ug/L	<4.0	<8	<8	<8	<8	<8	<8	<8	<8
Copper, total	ug/L	<4	<4	<4	<4	<4	<4	<4	<4	<4
Dibromochloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromomethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Lead, total	ug/L	<4	<4	<4	<4	<4	<4	<4	<4	<4
Methyl iodide	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene chloride	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
Nickel, total	ug/L	<4.0	<4.0	<4.0	<4.0	7.1	<4.0	<4.0	<4.0	<4.0
Selenium, total	ug/L	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Silver, total	ug/L	<4	<4	<4	<4	<4	<4	<4	<4	<4
Styrene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Thallium, total	ug/L	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Toluene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total suspended solids	mg/L		60	11						
Trans-1,2-dichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,3-dichloropropene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,4-dichloro-2-butene	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
Trichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vanadium, total	ug/L	<20	<20	<20	<20	<20	<20	<20	<20	<20
Vinyl acetate	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
Vinyl chloride	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	ug/L	<2	<2	<2	<2	<2	<2	<2	<2	<2
Zinc, total	ug/L	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0

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

Table 9

Analytical Data Summary for MW06-37

Constituents	9/24/2018	3/25/2019	9/3/2019	12/3/2019	3/23/2020	9/4/2020	3/9/2021	9/7/2021	12/3/2021	3/28/2022
1,1,1,2-tetrachloroethane	<1	<1	<1		<1	<1	<1	<1		<1
1,1,1-trichloroethane	<1	<1	<1		<1	<1	<1	<1		<1
1,1,2,2-tetrachloroethane	<1	<1	<1		<1	<1	<1	<1		<1
1,1,2-trichloroethane	<1	<1	<1		<1	<1	<1	<1		<1
1,1-dichloroethane	<1	<1	<1		<1	<1	<1	<1		<1
1,1-dichloroethylene	<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		<5	<5	<5	<5		<5
1,2-dibromoethane	<1	<1	<1		<1	<1	<1	<1		<1
1,2-dichlorobenzene	<1	<1	<1		<1	<1	<1	<1		<1
1,2-dichloroethane	<1	<1	<1		<1	<1	<1	<1		<1
1,2-dichloropropane	<1	<1	<1		<1	<1	<1	<1		<1
1,4-dichlorobenzene	<1	<1	<1		<1	<1	<1	<1		<1
2-butanone (mek)	<5	<5	<5		<5	<5	<5	<5		<10
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
Arsenic, total	<4	<4	<4		<4	<4	<4	<4		<4
Barium, total	116	126	120		126	172	109	123		119
Benzene	<1	<1	<1		<1	<1	<1	<1		<1
Beryllium, total	<4.0	<4.0	<4.0		<4.0	<4.0	<4.0	<4.0		<4.0
Bromochloromethane	<1	<1	<1		<1	<1	<1	<1		<1
Bromodichloromethane	<1	<1	<1		<1	<1	<1	<1		<1
Bromofom	<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	5.5	<.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	<1	<1		<1	<1	<1	<1		<1
Chromium, total	<8.0	<8.0	<8.0		<8.0	<8.0	<8.0	<8.0		<8.0
Cis-1,2-dichloroethylene	<1	<1	<1		<1	<1	<1	<1		<1
Cis-1,3-dichloropropene	<1	<1	<1		<1	<1	<1	<1		<1
Cobalt, total	<.8	<.8	<.8		<.8	<.4	<.4	<.4		.4
Copper, total	<4	<4	<4		<4	<4	<4	<4		<4
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	17	<4	<4	<4	<4	<4		<4
Methyl iodide	<1	<1	<1	<4	<1	<1	<1	<1		<1
Methylene chloride	<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
Selenium, total	<4.0	<4.0	<4.0		<4.0	<4.0	4.9	<4.0		4.9
Silver, total	<4	<4	<4		<4	<4	<4	<4		<4
Styrene	<1	<1	<1		<1	<1	<1	<1		<1
Tetrachloroethylene	<1	<1	<1		<1	<1	<1	<1		<1
Thallium, total	<4.0	<2.0	<2.0		<2.0	<2.0	<2.0	<2.0		<2.0
Toluene	<1	<1	<1		<1	<1	<1	<1		<1
Total suspended solids										
Trans-1,2-dichloroethylene	<1	<1	<1		<1	<1	<1	<1		<1
Trans-1,3-dichloropropene	<1	<1	<1		<1	<1	<1	<1		<1
Trans-1,4-dichloro-2-butene	<5	<5	<5		<5	<5	<5	<5		<5
Trichloroethylene	<1	<1	<1		<1	<1	<1	<1		<1
Trichlorofluoromethane	<1	<1	<1		<1	<1	<1	<1		<1
Vanadium, total	<20	<20	<20		<20	<20	<20	<20		<20
Vinyl acetate	<5	<5	<5		<5	<5	<5	<5		<5
Vinyl chloride	<1	<1	<1		<1	<1	<1	<1		<1
Xylenes, total	<2	<2	<2		<2	<2	<2	<2		<2
Zinc, total	<8.0	<8.0	9.1		<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 MW06-37

Constituents	9/14/2022	3/20/2023	9/13/2023	3/12/2024	9/30/2024	3/24/2025	9/9/2025
1,1,1,2-tetrachloroethane	<1	<1	<1	<1	<1	<1	<1
1,1,1-trichloroethane	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	<1	<1	<1	<1	<1	<1	<1
1,1,2-trichloroethane	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethane	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethylene	<1	<1	<1	<1	<1	<1	<1
1,2,3-trichloropropane	<1	<1	<1	<1	<1	<1	<1
1,2-dibromo-3-chloropropane	<5	<5	<5	<5	<5	<5	<5
1,2-dibromoethane	<1	<1	<1	<1	<1	<1	<1
1,2-dichlorobenzene	<1	<1	<1	<1	<1	<1	<1
1,2-dichloroethane	<1	<1	<1	<1	<1	<1	<1
1,2-dichloropropane	<1	<1	<1	<1	<1	<1	<1
1,4-dichlorobenzene	<1	<1	<1	<1	<1	<1	<1
2-butanone (mek)	<10	<10	<10	<10	<10	<10	<10
2-hexanone (mbk)	<5	<5	<5	<5	<5	<5	<5
4-methyl-2-pentanone (mibk)	<5	<5	<5	<5	<5	<5	<5
Acetone	<10	<10	<10	<10	<10	<10	<10
Acrylonitrile	<5	<5	<5	<5	<5	<5	<5
Antimony, total	<2	<2	<2	<2	<2	<1	<1
Arsenic, total	<4	<4	<4	<4	<4	<2	<2
Barium, total	117	109	120	128	116	118	112
Benzene	<1	<1	<1	<1	<1	<1	<1
Beryllium, total	<4.0	<4.0	<4.0	<4.0	<4.0	<5	<5
Bromochloromethane	<1	<1	<1	<1	<1	<1	<1
Bromodichloromethane	<1	<1	<1	<1	<1	<1	<1
Bromoform	<1	<1	<1	<1	<1	<1	<1
Bromomethane	<1	<1	<1	<1	<1	<1	<1
Cadmium, total	<.8	<.8	.9	<.8	<.8	.5	<.2
Carbon disulfide	<1	<1	<1	<1	<1	<1	<1
Carbon tetrachloride	<1	<1	<1	<1	<1	<1	<1
Chlorobenzene	<1	<1	<1	<1	<1	<1	<1
Chloroethane	<1	<1	<1	<1	<1	<1	<1
Chloroform	<1	<1	<1	<1	<1	<1	<1
Chloromethane	<1	<1	<1	<1	<1	<1	<1
Chromium, total	<8.0	<8.0	<8.0	<8.0	<8.0	1.9	<1.0
Cis-1,2-dichloroethylene	<1	<1	<1	<1	<1	<1	<1
Cis-1,3-dichloropropene	<1	<1	<1	<1	<1	<1	<1
Cobalt, total	5.0	<4	<4	<4	<4	<.5	<.5
Copper, total	<4	<4	<4	<4	<4	<5	<5
Dibromochloromethane	<1	<1	<1	<1	<1	<1	<1
Dibromomethane	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	<1	<1	<1	<1	<1	<1	<1
Lead, total	<4	<4	<4	<4	<4	<1	<1
Methyl iodide	<1	<1	<1	<1	<1	<1	<1
Methylene chloride	<5	<5	<5	<5	<5	<5	<5
Nickel, total	<4.0	<4.0	<4.0	<4.0	<4.0	<5.0	<5.0
Selenium, total	<4.0	<4.0	<4.0	<4.0	<4.0	2.1	2.5
Silver, total	<4	<4	<4	<4	<4	<5	<5
Styrene	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethylene	<1	<1	<1	<1	<1	<1	<1
Thallium, total	<2.0	<2.0	<2.0	<2.0	<2.0	<.5	<.5
Toluene	<1	<1	<1	<1	<1	<1	<1
Total suspended solids							
Trans-1,2-dichloroethylene	<1	<1	<1	<1	<1	<1	<1
Trans-1,3-dichloropropene	<1	<1	<1	<1	<1	<1	<1
Trans-1,4-dichloro-2-butene	<5	<5	<5	<5	<5	<5	<5
Trichloroethylene	<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	<1	<1	<1	<1	<1	<1	<1
Vanadium, total	<20	<20	<20	<20	<20	<2	<2
Vinyl acetate	<5	<5	<5	<5	<5	<5	<5
Vinyl chloride	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	<2	<2	<2	<2	<2	<2	<2
Zinc, total	<20.0	<20.0	<20.0	<20.0	<20.0	<5.0	5.1

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

Table 9

Analytical Data Summary for MW06-38

Constituents	Units	3/13/2014	9/18/2014	3/17/2015	9/11/2015	3/16/2016	9/8/2016	3/17/2017	9/19/2017	3/8/2018
1,1,1,2-tetrachloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-trichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-trichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,3-trichloropropane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dibromo-3-chloropropane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dibromoethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichlorobenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloropropane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-dichlorobenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-butanone (mek)	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
2-hexanone (mbk)	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
4-methyl-2-pentanone (mibk)	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
Acetone	ug/L	<10	<10	<10	<10	<10	<10	<10	<10	<10
Acrylonitrile	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
Antimony, total	ug/L	<2	<2	<2	<2	<2	<2	<2	<2	<2
Arsenic, total	ug/L	<4	<4	<4	<4	<4	<4	<4	<4	<4
Barium, total	ug/L	207	224	209	233	208	199	196	208	205
Benzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Beryllium, total	ug/L	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Bromochloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromodichloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromoform	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromomethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cadmium, total	ug/L	<.8	<.8	<.8	.8	1.2	<.8	<.8	<.8	<.8
Carbon disulfide	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon tetrachloride	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chromium, total	ug/L	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0
Cis-1,2-dichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cis-1,3-dichloropropene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cobalt, total	ug/L	<4.0	<.8	<.8	<.8	<.8	<.8	<.8	<.8	<.8
Copper, total	ug/L	11.2	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Dibromochloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromomethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Lead, total	ug/L	<4	<4	<4	<4	<4	<4	<4	<4	<4
Methyl iodide	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene chloride	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
Nickel, total	ug/L	<4	<4	<4	<4	<4	<4	<4	<4	<4
Selenium, total	ug/L	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Silver, total	ug/L	<4	<4	<4	<4	<4	<4	<4	<4	<4
Styrene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Thallium, total	ug/L	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Toluene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total suspended solids	mg/L		237	14						
Trans-1,2-dichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,3-dichloropropene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,4-dichloro-2-butene	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
Trichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vanadium, total	ug/L	<20	<20	<20	<20	<20	<20	<20	<20	<20
Vinyl acetate	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
Vinyl chloride	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	ug/L	<2	<2	<2	<2	<2	<2	<2	<2	<2
Zinc, total	ug/L	10.0	8.2	<8.0	14.3	<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 MW06-38

Constituents	9/24/2018	3/25/2019	9/3/2019	3/23/2020	9/4/2020	3/9/2021	9/7/2021	3/28/2022	9/14/2022	3/20/2023
1,1,1,2-tetrachloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-trichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-trichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,3-trichloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dibromo-3-chloropropane	<1	<1	<1	<5	<5	<5	<5	<5	<5	<5
1,2-dibromoethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-butanone (mek)	<5	<5	<5	<5	<5	<5	<5	<10	<10	<10
2-hexanone (mbk)	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
4-methyl-2-pentanone (mibk)	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Acetone	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Acrylonitrile	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Antimony, total	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Arsenic, total	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Barium, total	209	199	199	208	205	202	209	193	187	184
Benzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Beryllium, total	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Bromochloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromodichloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromoform	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromomethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cadmium, total	<.8	<.8	<.8	<.8	<.8	<.8	1.7	<.8	<.8	<.8
Carbon disulfide	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon tetrachloride	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chromium, total	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0
Cis-1,2-dichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cis-1,3-dichloropropene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cobalt, total	<.8	<.8	<.8	<.8	<.4	<.4	<.4	.5	6.3	<.4
Copper, total	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Dibromochloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromomethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Lead, total	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Methyl iodide	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene chloride	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Nickel, total	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Selenium, total	<4.0	4.0	<4.0	<4.0	4.4	<4.0	<4.0	<4.0	<4.0	<4.0
Silver, total	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Styrene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Thallium, total	<4.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Toluene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total suspended solids										
Trans-1,2-dichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,3-dichloropropene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,4-dichloro-2-butene	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Trichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vanadium, total	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
Vinyl acetate	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Vinyl chloride	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Zinc, total	<8.0	<8.0	<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 MW06-38

Constituents	9/13/2023	3/12/2024	9/30/2024	3/24/2025	9/9/2025
1,1,1,2-tetrachloroethane	<1	<1	<1	<1	<1
1,1,1-trichloroethane	<1	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	<1	<1	<1	<1	<1
1,1,2-trichloroethane	<1	<1	<1	<1	<1
1,1-dichloroethane	<1	<1	<1	<1	<1
1,1-dichloroethylene	<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	<1	<1
Arsenic, total	<4	<4	<4	<2	<2
Barium, total	196	196	188	201	203
Benzene	<1	<1	<1	<1	<1
Beryllium, total	<4.0	<4.0	<4.0	<.5	<.5
Bromochloromethane	<1	<1	<1	<1	<1
Bromodichloromethane	<1	<1	<1	<1	<1
Bromoform	<1	<1	<1	<1	<1
Bromomethane	<1	<1	<1	<1	<1
Cadmium, total	<.8	<.8	<.8	.4	.2
Carbon disulfide	<1	<1	<1	<1	<1
Carbon tetrachloride	<1	<1	<1	<1	<1
Chlorobenzene	<1	<1	<1	<1	<1
Chloroethane	<1	<1	<1	<1	<1
Chloroform	<1	<1	<1	<1	<1
Chloromethane	<1	<1	<1	<1	<1
Chromium, total	<8.0	<8.0	<8.0	1.9	3.4
Cis-1,2-dichloroethylene	<1	<1	<1	<1	<1
Cis-1,3-dichloropropene	<1	<1	<1	<1	<1
Cobalt, total	<.4	<.4	<.4	<.5	.8
Copper, total	<4.0	<4.0	<4.0	<5.0	<5.0
Dibromochloromethane	<1	<1	<1	<1	<1
Dibromomethane	<1	<1	<1	<1	<1
Ethylbenzene	<1	<1	<1	<1	<1
Lead, total	<4	<4	<4	<1	<1
Methyl iodide	<1	<1	<1	<1	<1
Methylene chloride	<5	<5	<5	<5	<5
Nickel, total	<4	<4	<4	<5	<5
Selenium, total	<4.0	<4.0	<4.0	3.8	4.6
Silver, total	<4	<4	<4	<5	<5
Styrene	<1	<1	<1	<1	<1
Tetrachloroethylene	<1	<1	<1	<1	<1
Thallium, total	<2.0	<2.0	<2.0	<.5	<.5
Toluene	<1	<1	<1	<1	<1
Total suspended solids					
Trans-1,2-dichloroethylene	<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
Trichloroethylene	<1	<1	<1	<1	<1
Trichlorofluoromethane	<1	<1	<1	<1	<1
Vanadium, total	<20	<20	<20	<2	<2
Vinyl acetate	<5	<5	<5	<5	<5
Vinyl chloride	<1	<1	<1	<1	<1
Xylenes, total	<2	<2	<2	<2	<2
Zinc, total	<20.0	<20.0	<20.0	5.6	11.1

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

Table 9

Analytical Data Summary for MW06-39

Constituents	Units	3/13/2014	9/18/2014	3/17/2015	9/11/2015	3/16/2016	9/8/2016	3/17/2017	9/19/2017	3/8/2018
1,1,1,2-tetrachloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-trichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-trichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,3-trichloropropane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dibromo-3-chloropropane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dibromoethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichlorobenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloropropane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-dichlorobenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-butanone (mek)	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
2-hexanone (mbk)	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
4-methyl-2-pentanone (mibk)	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
Acetone	ug/L	<10	<10	<10	<10	<10	<10	<10	<10	<10
Acrylonitrile	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
Antimony, total	ug/L	<2	<2	<2	<2	<2	<2	<2	<2	<2
Arsenic, total	ug/L	<4	<4	<4	<4	<4	<4	<4	<4	<4
Barium, total	ug/L	200	174	187	172	207	185	193	206	216
Benzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Beryllium, total	ug/L	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Bromochloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromodichloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromoform	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromomethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cadmium, total	ug/L	<.8	<.8	<.8	<.8	1.7	<.8	<.8	<.8	<.8
Carbon disulfide	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon tetrachloride	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chromium, total	ug/L	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0
Cis-1,2-dichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cis-1,3-dichloropropene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cobalt, total	ug/L	<4.0	<.8	<.8	<.8	<.8	<.8	<.8	<.8	<.8
Copper, total	ug/L	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Dibromochloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromomethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Lead, total	ug/L	<4	<4	<4	<4	<4	<4	<4	<4	<4
Methyl iodide	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene chloride	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
Nickel, total	ug/L	<4	<4	<4	<4	<4	<4	<4	<4	<4
Selenium, total	ug/L	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Silver, total	ug/L	<4	<4	<4	<4	<4	<4	<4	<4	<4
Styrene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Thallium, total	ug/L	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Toluene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total suspended solids	mg/L		39	4						
Trans-1,2-dichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,3-dichloropropene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,4-dichloro-2-butene	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
Trichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vanadium, total	ug/L	<20	<20	<20	<20	<20	<20	<20	<20	<20
Vinyl acetate	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
Vinyl chloride	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	ug/L	<2	<2	<2	<2	<2	<2	<2	<2	<2
Zinc, total	ug/L	<8.0	48.5	<8.0	38.7	12.6	<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 MW06-39

Constituents	9/24/2018	3/25/2019	9/3/2019	3/23/2020	9/4/2020	3/9/2021	9/7/2021	3/28/2022	9/14/2022	3/20/2023
1,1,1,2-tetrachloroethane	<1	<5	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-trichloroethane	<1	<5	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	<1	<5	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-trichloroethane	<1	<5	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethane	<1	<5	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethylene	<1	<5	<1	<1	<1	<1	<1	<1	<1	<1
1,2,3-trichloropropane	<1	<5	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dibromo-3-chloropropane	<1	<5	<1	<5	<5	<5	<5	<5	<5	<5
1,2-dibromoethane	<1	<5	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichlorobenzene	<1	<5	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloroethane	<1	<5	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloropropane	<1	<5	<1	<1	<1	<1	<1	<1	<1	<1
1,4-dichlorobenzene	<1	<5	<1	<1	<1	<1	<1	<1	<1	<1
2-butanone (mek)	<5	<25	<5	<5	<5	<5	<5	<10	<10	<10
2-hexanone (mbk)	<5	<25	<5	<5	<5	<5	<5	<5	<5	<5
4-methyl-2-pentanone (mibk)	<5	<25	<5	<5	<5	<5	<5	<5	<5	<5
Acetone	<10	<50	<10	<10	<10	<10	<10	<10	<10	<10
Acrylonitrile	<5	<25	<5	<5	<5	<5	<5	<5	<5	<5
Antimony, total	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Arsenic, total	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Barium, total	178	223	196	209	189	207	178	207	171	190
Benzene	<1	<5	<1	<1	<1	<1	<1	<1	<1	<1
Beryllium, total	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Bromochloromethane	<1	<5	<1	<1	<1	<1	<1	<1	<1	<1
Bromodichloromethane	<1	<5	<1	<1	<1	<1	<1	<1	<1	<1
Bromoform	<1	<5	<1	<1	<1	<1	<1	<1	<1	<1
Bromomethane	<1	<5	<1	<1	<1	<1	<1	<1	<1	<1
Cadmium, total	<.8	<.8	<.8	<.8	<.8	<.8	<.8	<.8	<.8	<.8
Carbon disulfide	<1	<5	<1	<1	<1	<1	<1	<1	<1	<1
Carbon tetrachloride	<1	<5	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzene	<1	<5	<1	<1	<1	<1	<1	<1	<1	<1
Chloroethane	<1	<5	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	<1	<5	<1	<1	<1	<1	<1	<1	<1	<1
Chloromethane	<1	<5	<1	<1	<1	<1	<1	<1	<1	<1
Chromium, total	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0
Cis-1,2-dichloroethylene	<1	<5	<1	<1	<1	<1	<1	<1	<1	<1
Cis-1,3-dichloropropene	<1	<5	<1	<1	<1	<1	<1	<1	<1	<1
Cobalt, total	<.8	<.8	<.8	<.8	<.4	<.4	<.4	.6	3.6	<.4
Copper, total	<4.0	<4.0	<4.0	<4.0	<4.0	4.4	<4.0	<4.0	<4.0	<4.0
Dibromochloromethane	<1	<5	<1	<1	<1	<1	<1	<1	<1	<1
Dibromomethane	<1	<5	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	<1	<5	<1	<1	<1	<1	<1	<1	<1	<1
Lead, total	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Methyl iodide	<1	<5	<1	<1	<1	<1	<1	<1	<1	<1
Methylene chloride	<5	<25	<5	<5	<5	<5	<5	<5	<5	<5
Nickel, total	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Selenium, total	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Silver, total	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Styrene	<1	<5	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethylene	<1	<5	<1	<1	<1	<1	<1	<1	<1	<1
Thallium, total	<4.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Toluene	<1	<5	<1	<1	<1	<1	<1	<1	<1	<1
Total suspended solids										
Trans-1,2-dichloroethylene	<1	<5	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,3-dichloropropene	<1	<5	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,4-dichloro-2-butene	<5	<25	<5	<5	<5	<5	<5	<5	<5	<5
Trichloroethylene	<1	<5	<1	<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	<1	<5	<1	<1	<1	<1	<1	<1	<1	<1
Vanadium, total	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
Vinyl acetate	<5	<25	<5	<5	<5	<5	<5	<5	<5	<5
Vinyl chloride	<1	<5	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	<2	<10	<2	<2	<2	<2	<2	<2	<2	<2
Zinc, total	<8.0	<8.0	<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 MW06-39

Constituents	9/13/2023	3/12/2024	9/30/2024	3/24/2025	9/9/2025
1,1,1,2-tetrachloroethane	<1	<1	<1	<1	<1
1,1,1-trichloroethane	<1	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	<1	<1	<1	<1	<1
1,1,2-trichloroethane	<1	<1	<1	<1	<1
1,1-dichloroethane	<1	<1	<1	<1	<1
1,1-dichloroethylene	<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	<1	<1
Arsenic, total	<4	<4	<4	<2	<2
Barium, total	178	174	160	182	159
Benzene	<1	<1	<1	<1	<1
Beryllium, total	<4.0	<4.0	<4.0	<5	<5
Bromochloromethane	<1	<1	<1	<1	<1
Bromodichloromethane	<1	<1	<1	<1	<1
Bromoform	<1	<1	<1	<1	<1
Bromomethane	<1	<1	<1	<1	<1
Cadmium, total	<.8	<.8	<.8	<.2	.2
Carbon disulfide	<1	<1	<1	<1	<1
Carbon tetrachloride	<1	<1	<1	<1	<1
Chlorobenzene	<1	<1	<1	<1	<1
Chloroethane	<1	<1	<1	<1	<1
Chloroform	<1	<1	<1	<1	<1
Chloromethane	<1	<1	<1	<1	<1
Chromium, total	<8.0	<8.0	<8.0	1.8	1.2
Cis-1,2-dichloroethylene	<1	<1	<1	<1	<1
Cis-1,3-dichloropropene	<1	<1	<1	<1	<1
Cobalt, total	<.4	<.4	<.4	<.5	<.5
Copper, total	<4.0	<4.0	<4.0	<5.0	<5.0
Dibromochloromethane	<1	<1	<1	<1	<1
Dibromomethane	<1	<1	<1	<1	<1
Ethylbenzene	<1	<1	<1	<1	<1
Lead, total	<4	<4	<4	<1	<1
Methyl iodide	<1	<1	<1	<1	<1
Methylene chloride	<5	<5	<5	<5	<5
Nickel, total	<4	<4	<4	<5	<5
Selenium, total	<4.0	<4.0	<4.0	<2.0	2.5
Silver, total	<4	<4	<4	<5	<5
Styrene	<1	<1	<1	<1	<1
Tetrachloroethylene	<1	<1	<1	<1	<1
Thallium, total	<2.0	<2.0	<2.0	<.5	<.5
Toluene	<1	<1	<1	<1	<1
Total suspended solids					
Trans-1,2-dichloroethylene	<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
Trichloroethylene	<1	<1	<1	<1	<1
Trichlorofluoromethane	<1	<1	<1	<1	<1
Vanadium, total	<20	<20	<20	<2	<2
Vinyl acetate	<5	<5	<5	<5	<5
Vinyl chloride	<1	<1	<1	<1	<1
Xylenes, total	<2	<2	<2	<2	<2
Zinc, total	<20.0	<20.0	<20.0	<5.0	8.5

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

Table 9

Analytical Data Summary for MW09-40

Constituents	Units	3/13/2014	9/18/2014	3/17/2015	9/11/2015	3/16/2016	9/8/2016	3/17/2017	9/19/2017	3/8/2018
1,1,1,2-tetrachloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-trichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-trichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,3-trichloropropane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dibromo-3-chloropropane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dibromoethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichlorobenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloropropane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-dichlorobenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-butanone (mek)	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
2-hexanone (mbk)	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
4-methyl-2-pentanone (mibk)	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
Acetone	ug/L	<10	<10	<10	<10	<10	<10	<10	<10	<10
Acrylonitrile	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
Antimony, total	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Arsenic, total	ug/L	<4	<4	<4	<4	<4	<4	<4	<4	<4
Barium, total	ug/L	39.4	34.0	29.2	34.9	31.4	37.1	32.6	39.7	35.1
Benzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Beryllium, total	ug/L	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Bromochloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromodichloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromoform	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromomethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cadmium, total	ug/L	<8	<8	<8	<8	<8	<8	<8	1.6	<8
Carbon disulfide	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon tetrachloride	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chromium, total	ug/L	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0
Cis-1,2-dichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cis-1,3-dichloropropene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cobalt, total	ug/L	<4.0	<8	<8	<8	<8	<8	<8	<8	<8
Copper, total	ug/L	<4	<4	<4	<4	<4	<4	<4	<4	<4
Dibromochloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromomethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Lead, total	ug/L	<4	<4	<4	<4	<4	<4	<4	<4	<4
Methyl iodide	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene chloride	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
Nickel, total	ug/L	<4.0	5.4	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Selenium, total	ug/L	<4.0	8.8	5.7	4.8	4.9	<4.0	<4.0	<4.0	<4.0
Silver, total	ug/L	<4	<4	<4	<4	<4	<4	<4	<4	<4
Styrene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Thallium, total	ug/L	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Toluene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total suspended solids	mg/L		126	8						
Trans-1,2-dichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,3-dichloropropene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,4-dichloro-2-butene	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
Trichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vanadium, total	ug/L	<20	<20	<20	<20	<20	<20	<20	<20	<20
Vinyl acetate	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
Vinyl chloride	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	ug/L	<2	<2	<2	<2	<2	<2	<2	<2	<2
Zinc, total	ug/L	<8.0	14.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0

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

Table 9

Analytical Data Summary for MW09-40

Constituents	9/24/2018	3/25/2019	9/3/2019	3/23/2020	9/4/2020	3/9/2021	9/7/2021	12/3/2021	3/28/2022	9/14/2022
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-dichloroethylene	<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	<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
1,4-dichlorobenzene	<1	<1	<1	<1	<1	<1	<1		<1	<1
2-butanone (mek)	<5	<5	<5	<5	<5	<5	<5		<10	<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	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0		<2.0	<2.0
Arsenic, total	<4	<4	<4	<4	<4	<4	<4		<4	<4
Barium, total	30.2	27.3	28.2	33.2	30.6	29.6	36.8		21.4	22.7
Benzene	<1	<1	<1	<1	<1	<1	<1		<1	<1
Beryllium, total	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0		<4.0	<4.0
Bromochloromethane	<1	<1	<1	<1	<1	<1	<1		<1	<1
Bromodichloromethane	<1	<1	<1	<1	<1	<1	<1		<1	<1
Bromoform	<1	<1	<1	<1	<1	<1	<1		<1	<1
Bromomethane	<1	<1	<1	<1	<1	<1	<1		<1	<1
Cadmium, total	<.8	<.8	<.8	<.8	<.8	<.8	<.8		.9	<.8
Carbon disulfide	<1	<1	<1	<1	<1	<1	<1		<1	<1
Carbon tetrachloride	<1	<1	<1	<1	<1	<1	<1		<1	<1
Chlorobenzene	<1	<1	<1	<1	<1	<1	<1		<1	<1
Chloroethane	<1	<1	<1	<1	<1	<1	<1		<1	<1
Chloroform	<1	<1	<1	<1	<1	<1	<1		<1	<1
Chloromethane	<1	<1	<1	<1	<1	<1	<1		<1	<1
Chromium, total	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0		<8.0	<8.0
Cis-1,2-dichloroethylene	<1	<1	<1	<1	<1	<1	<1		<1	<1
Cis-1,3-dichloropropene	<1	<1	<1	<1	<1	<1	<1		<1	<1
Cobalt, total	<.8	<.8	<.8	<.8	<.4	<.4	2.0		.7	3.4
Copper, total	<4	<4	<4	<4	<4	17	<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	19.4	7.5	<4.0	<4.0
Selenium, total	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0		<4.0	<4.0
Silver, total	<4	<4	<4	<4	<4	<4	<4		<4	<4
Styrene	<1	<1	<1	<1	<1	<1	<1		<1	<1
Tetrachloroethylene	<1	<1	<1	<1	<1	<1	<1		<1	<1
Thallium, total	<4.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0		<2.0	<2.0
Toluene	<1	<1	<1	<1	<1	<1	<1		<1	<1
Total suspended solids										
Trans-1,2-dichloroethylene	<1	<1	<1	<1	<1	<1	<1		<1	<1
Trans-1,3-dichloropropene	<1	<1	<1	<1	<1	<1	<1		<1	<1
Trans-1,4-dichloro-2-butene	<5	<5	<5	<5	<5	<5	<5		<5	<5
Trichloroethylene	<1	<1	<1	<1	<1	<1	<1		<1	<1
Trichlorofluoromethane	<1	<1	<1	<1	<1	<1	<1		<1	<1
Vanadium, total	<20	<20	<20	<20	<20	<20	<20		<20	<20
Vinyl acetate	<5	<5	<5	<5	<5	<5	<5		<5	<5
Vinyl chloride	<1	<1	<1	<1	<1	<1	<1		<1	<1
Xylenes, total	<2	<2	<2	<2	<2	<2	<2		<2	<2
Zinc, total	<8.0	<8.0	<8.0	<20.0	<20.0	<20.0	<20.0		<20.0	<20.0

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

Table 9

Analytical Data Summary for MW09-40

Constituents	3/20/2023	9/12/2023	3/12/2024	9/30/2024	3/24/2025	9/9/2025
1,1,1,2-tetrachloroethane	<1	<1	<1	<1	<1	<1
1,1,1-trichloroethane	<1	<1	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	<1	<1	<1	<1	<1	<1
1,1,2-trichloroethane	<1	<1	<1	<1	<1	<1
1,1-dichloroethane	<1	<1	<1	<1	<1	<1
1,1-dichloroethylene	<1	<1	<1	<1	<1	<1
1,2,3-trichloropropane	<1	<1	<1	<1	<1	<1
1,2-dibromo-3-chloropropane	<5	<5	<5	<5	<5	<5
1,2-dibromoethane	<1	<1	<1	<1	<1	<1
1,2-dichlorobenzene	<1	<1	<1	<1	<1	<1
1,2-dichloroethane	<1	<1	<1	<1	<1	<1
1,2-dichloropropane	<1	<1	<1	<1	<1	<1
1,4-dichlorobenzene	<1	<1	<1	<1	<1	<1
2-butanone (mek)	<10	<10	<10	<10	<10	<10
2-hexanone (mbk)	<5	<5	<5	<5	<5	<5
4-methyl-2-pentanone (mibk)	<5	<5	<5	<5	<5	<5
Acetone	<10	<10	<10	<10	<10	<10
Acrylonitrile	<5	<5	<5	<5	<5	<5
Antimony, total	2.4	<2.0	<2.0	<2.0	2.8	1.9
Arsenic, total	<4	<4	<4	<4	<4	2
Barium, total	13.0	23.9	21.3	23.4	15.2	22.4
Benzene	<1	<1	<1	<1	<1	<1
Beryllium, total	<4.0	<4.0	<4.0	<4.0	<4.0	<5
Bromochloromethane	<1	<1	<1	<1	<1	<1
Bromodichloromethane	<1	<1	<1	<1	<1	<1
Bromoform	<1	<1	<1	<1	<1	<1
Bromomethane	<1	<1	<1	<1	<1	<1
Cadmium, total	<.8	<.8	<.8	<.8	<.8	<.2
Carbon disulfide	<1	<1	<1	<1	<1	<1
Carbon tetrachloride	<1	<1	<1	<1	<1	<1
Chlorobenzene	<1	<1	<1	<1	<1	<1
Chloroethane	<1	<1	<1	<1	<1	<1
Chloroform	<1	<1	<1	<1	<1	<1
Chloromethane	<1	<1	<1	<1	<1	<1
Chromium, total	<8.0	<8.0	<8.0	<8.0	<8.0	1.1
Cis-1,2-dichloroethylene	<1	<1	<1	<1	<1	<1
Cis-1,3-dichloropropene	<1	<1	<1	<1	<1	<1
Cobalt, total	<.4	<.4	<.4	<.4	<.4	.9
Copper, total	<4	<4	<4	<4	<4	<5
Dibromochloromethane	<1	<1	<1	<1	<1	<1
Dibromomethane	<1	<1	<1	<1	<1	<1
Ethylbenzene	<1	<1	<1	<1	<1	<1
Lead, total	<4	<4	<4	<4	<4	<1
Methyl iodide	<1	<1	<1	<1	<1	<1
Methylene chloride	<5	<5	<5	<5	<5	<5
Nickel, total	<4.0	<4.0	<4.0	<4.0	<4.0	<5.0
Selenium, total	<4.0	<4.0	<4.0	<4.0	<4.0	3.6
Silver, total	<4	<4	<4	<4	<4	<5
Styrene	<1	<1	<1	<1	<1	<1
Tetrachloroethylene	<1	<1	<1	<1	<1	<1
Thallium, total	<2.0	<2.0	<2.0	<2.0	<2.0	<.5
Toluene	<1	<1	<1	<1	<1	<1
Total suspended solids						
Trans-1,2-dichloroethylene	<1	<1	<1	<1	<1	<1
Trans-1,3-dichloropropene	<1	<1	<1	<1	<1	<1
Trans-1,4-dichloro-2-butene	<5	<5	<5	<5	<5	<5
Trichloroethylene	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	<1	<1	<1	<1	<1	<1
Vanadium, total	<20	<20	<20	<20	<20	<2
Vinyl acetate	<5	<5	<5	<5	<5	<5
Vinyl chloride	<1	<1	<1	<1	<1	<1
Xylenes, total	<2	<2	<2	<2	<2	<2
Zinc, total	<20.0	<20.0	<20.0	<20.0	<20.0	9.2

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

Table 9

Analytical Data Summary for MW09-42

Constituents	Units	3/16/2016	6/7/2016	9/8/2016	3/17/2017	6/8/2017	9/20/2017	5/19/2018	8/9/2018	9/24/2018
(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-dichloroethylene	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	<10	<10	<10		<10	<10		<10
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 MW09-42

Constituents	12/20/2018	3/25/2019	9/3/2019	3/23/2020	9/4/2020
(3,4)-methylphenol					
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-dichloroethylene		<1	<1	<1	<1
1,1-dichloropropene					
1,2,3-trichloropropane		<1	<1	<1	<1
1,2,4,5-tetrachlorobenzene					
1,2,4-trichlorobenzene					
1,2-dibromo-3-chloropropane		<1	<1	<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
1,2-dinitrobenzene					
1,3,5-trinitrobenzene					
1,3-dichlorobenzene					
1,3-dichloropropane					
1,3-dinitrobenzene					
1,4-dichlorobenzene		<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
2-chloronaphthalene					
2-chlorophenol					
2-hexanone (mbk)		<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
4-nitroaniline					
4-nitrophenol					
5-nitro-o-toluidine					
7,12-dimethylbenz(a)anthracene					
Acenaphthene					
Acenaphthylene					
Acetone		<10	<10	<10	<10
Acetonitrile					
Acetophenone					
Acrolein					
Acrylonitrile		<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 MW09-42

Constituents	Units	3/16/2016	6/7/2016	9/8/2016	3/17/2017	6/8/2017	9/20/2017	5/19/2018	8/9/2018	9/24/2018
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	4.0	<4.0	<4.0	4.2		<4.0	6.7		<4.0
Azobenzene	ug/L						<8			<8
Barium, total	ug/L	727	829	597	759	1940	611	940	594	583
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-chloroisopropyl) ether	ug/L						<8			<8
Bis(2-ethylhexyl) phthalate	ug/L						<6			7
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	2.7	<.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	<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-dichloroethylene	ug/L	<1	<1	<1	<1		<1	<1		<1
Cis-1,3-dichloropropene	ug/L	<1	<1	<1	<1		<1	<1		<1
Cobalt, total	ug/L	<.8	<.8	<.8	<.8		<.8	.8		<.8
Copper, total	ug/L	<4	<4	<4	<4		<4	<4		<4
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 MW09-42

Constituents	12/20/2018	3/25/2019	9/3/2019	3/23/2020	9/4/2020
Antimony, total		<2	<2	<2	<2
Arochlor 1016					
Arochlor 1221					
Arochlor 1232					
Arochlor 1242					
Arochlor 1248					
Arochlor 1254					
Arochlor 1260					
Arsenic, total		6.3	7.8	6.7	5.4
Azobenzene					
Barium, total		871	1090	987	801
Benzene		<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
Beta-bhc					
Bis (2-chloroethoxy) methane					
Bis(2-chloroethyl) ether					
Bis(2-chloroisopropyl) ether					
Bis(2-ethylhexyl) phthalate	<6				
Bromochloromethane		<1	<1	<1	<1
Bromodichloromethane		<1	<1	<1	<1
Bromoform		<1	<1	<1	<1
Bromomethane		<1	<1	<1	<1
Butyl benzyl phthalate					
Cadmium, total		<.8	<.8	<.8	<.8
Carbon disulfide		<1	<1	<1	<1
Carbon tetrachloride		<1	<1	<1	<1
Chlordane					
Chlorobenzene		<1	<1	<1	<1
Chlorobenzilate					
Chloroethane		<1	<1	<1	<1
Chloroform		<1	<1	<1	<1
Chloromethane		<1	<1	<1	<1
Chloroprene					
Chromium, total		<8	<8	<8	<8
Chrysene					
Cis-1,2-dichloroethylene		<1	<1	<1	<1
Cis-1,3-dichloropropene		<1	<1	<1	<1
Cobalt, total		<.8	<.8	<.8	<.4
Copper, total		<4	<4	<4	<4
Cyanide, total					
Delta-bhc					
Diallate					
Dibenzo(a,h)anthracene					
Dibenzofuran					
Dibromochloromethane		<1	<1	<1	<1
Dibromomethane		<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
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 MW09-42

Constituents	Units	3/16/2016	6/7/2016	9/8/2016	3/17/2017	6/8/2017	9/20/2017	5/19/2018	8/9/2018	9/24/2018
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	<4	<4	<4		<4	<4		<4
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
Parathion	ug/L						<.4			<.4
P-dimethylaminoazobenzene	ug/L						<8			<8
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	<8		<4
Styrene	ug/L	<1	<1	<1	<1		<1	<1		<1
Sulfide, total	mg/L						<1.0			<.1
Tetrachloroethylene	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-dichloroethylene	ug/L	<1	<1	<1	<1		<1	<1		<1
Trans-1,3-dichloropropene	ug/L	<1	<1	<1	<1		<1	<1		<1
Trans-1,4-dichloro-2-butene	ug/L	<5	<5	<5	<5		<5	<5		<5
Trichloroethylene	ug/L	<1	<1	<1	<1		<1	<1		<1
Trichlorofluoromethane	ug/L	<1	<1	<1	<1		<1	<1		<1
Vanadium, total	ug/L	<20	<20	<20	<20		<20	<20		<20
Vinyl acetate	ug/L	<5	<5	<5	<5		<5	<5		<5
Vinyl chloride	ug/L	<1	<1	<1	<1		<1	<1		<1
Xylenes, total	ug/L	<2	<2	<2	<2		<2	<2		<2
Zinc, total	ug/L	<8.0	10.7	<8.0	<8.0		<8.0	12.8		<8.0

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

Table 9

Analytical Data Summary for MW09-42

Constituents	12/20/2018	3/25/2019	9/3/2019	3/23/2020	9/4/2020
Hexachlorobutadiene					
Hexachlorocyclopentadiene					
Hexachloroethane					
Hexachloropropene					
Indeno(1,2,3-cd)pyrene					
Isobutanol					
Isodrin					
Isophorone					
Isosafrole					
Kepone					
Lead, total		<4	<4	<4	<4
Mercury, total					
Methacrylonitrile					
Methapyrilene					
Methoxychlor					
Methyl iodide		<1	<1	<1	<1
Methyl methacrylate					
Methyl methanesulfonate					
Methyl parathion					
Methylene chloride		<5	<5	<5	<5
Naphthalene					
Nickel, total		<4	<4	<4	<4
Nitrobenzene					
N-nitrosodiethylamine					
N-nitrosodimethylamine					
N-nitrosodi-n-butylamine					
N-nitroso-di-n-propylamine					
N-nitrosodiphenylamine					
N-nitrosomethylethylamine					
N-nitrosopiperidine					
N-nitrosopyrrolidine					
O,o,o-triethyl phosphorothioate					
O-toluidine					
Parathion					
P-dimethylaminoazobenzene					
Pentachlorobenzene					
Pentachloronitrobenzene (pcnb)					
Pentachlorophenol					
Phenacetin					
Phenanthrene					
Phenol					
Phorate					
Pronamide					
Propionitrile					
Pyrene					
Safrole					
Selenium, total		<4	<4	<4	<4
Silver, total		<4	<4	<4	<4
Styrene		<1	<1	<1	<1
Sulfide, total					
Tetrachloroethylene		<1	<1	<1	<1
Thallium, total		<2	<2	<2	<2
Thionazin					
Tin, total					
Toluene		<1	<1	<1	<1
Toxaphene					
Trans-1,2-dichloroethylene		<1	<1	<1	<1
Trans-1,3-dichloropropene		<1	<1	<1	<1
Trans-1,4-dichloro-2-butene		<5	<5	<5	<5
Trichloroethylene		<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		<8.0	<8.0	<20.0	<20.0

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

Table 9

Analytical Data Summary for MW21-43

Constituents	Units	3/28/2022	9/14/2022	3/20/2023	9/12/2023	3/12/2024	9/30/2024	3/24/2025	9/9/2025
1,1,1,2-tetrachloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-trichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-trichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1
1,2,3-trichloropropane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dibromo-3-chloropropane	ug/L	<5	<5	<5	<5	<5	<5	<5	<5
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	<10	<10	<10	<10	<10	<10	<10	<10
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	<1
Arsenic, total	ug/L	<4.0	<4.0	6.5	10.7	6.4	9.8	4.3	5.7
Barium, total	ug/L	296	195	190	307	226	177	211	200
Benzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1
Beryllium, total	ug/L	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<5
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	.2
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	<1
Cis-1,2-dichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1
Cis-1,3-dichloropropene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1
Cobalt, total	ug/L	2.8	3.2	<.4	.7	<.4	.4	.7	<.5
Copper, total	ug/L	<4.0	5.5	4.6	<4.0	4.0	<4.0	<4.0	<5.0
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	<1
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	9.8	6.2	4.2	9.9	6.4	8.1	6.8	<5.0
Selenium, total	ug/L	<4	<4	<4	<4	<4	<4	<4	<2
Silver, total	ug/L	<4	<4	<4	<4	<4	<4	<4	<5
Styrene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1
Thallium, total	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<.5
Toluene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,2-dichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,3-dichloropropene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,4-dichloro-2-butene	ug/L	<5	<5	<5	<5	<5	<5	<5	<5
Trichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1
Vanadium, total	ug/L	<20	<20	<20	<20	<20	<20	<20	<2
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	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	11.7

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

Table 9

Analytical Data Summary for MW88-2

Constituents	Units	3/13/2014	9/18/2014	11/13/2014	3/17/2015	6/29/2015	9/11/2015	3/16/2016	9/8/2016	3/17/2017
1,1,1,2-tetrachloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-trichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-trichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,3-trichloropropane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dibromo-3-chloropropane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dibromoethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichlorobenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloropropane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-dichlorobenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-butanone (mek)	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
2-hexanone (mbk)	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
4-methyl-2-pentanone (mibk)	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
Acetone	ug/L	<10	<10	<10	<10	<10	<10	<10	<10	<10
Acrylonitrile	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
Antimony, total	ug/L	<2	<2	<2	<2	<2	<2	<2	<2	<2
Arsenic, total	ug/L	10.5	16.1	7.4	<4.0	<4.0	<4.0	<4.0	6.6	<4.0
Barium, total	ug/L	426.0	661.0	751.0	595.0	451.0	296.0	95.8	411.0	179.0
Benzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Beryllium, total	ug/L	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Bromochloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromodichloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromoform	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromomethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cadmium, total	ug/L	<8	<8	<8	<8	<8	<8	4.6	<8	1.1
Carbon disulfide	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon tetrachloride	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chromium, total	ug/L	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0
Cis-1,2-dichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cis-1,3-dichloropropene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cobalt, total	ug/L	<4.0	<8	<8	<8	<8	<8	<8	<8	.8
Copper, total	ug/L	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Dibromochloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromomethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Lead, total	ug/L	<4	<4	<4	<4	<4	<4	<4	<4	<4
Methyl iodide	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene chloride	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
Nickel, total	ug/L	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	5.1	<4.0	<4.0
Selenium, total	ug/L	<4	<4	<4	<4	<4	<4	<4	<4	<4
Silver, total	ug/L	<4	<4	<4	<4	<4	<4	<4	<4	<4
Styrene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Thallium, total	ug/L	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Toluene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total suspended solids	mg/L		595		39					
Trans-1,2-dichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,3-dichloropropene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,4-dichloro-2-butene	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
Trichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vanadium, total	ug/L	<20	<20	<20	<20	<20	<20	<20	<20	<20
Vinyl acetate	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
Vinyl chloride	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	ug/L	<2	<2	<2	<2	<2	<2	<2	<2	<2
Zinc, total	ug/L	<8.0	<8.0	<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 MW88-2

Constituents	9/19/2017	3/8/2018	9/24/2018	3/25/2019	9/3/2019	3/23/2020	9/4/2020	3/9/2021	3/28/2022	9/14/2022
1,1,1,2-tetrachloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-trichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-trichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,3-trichloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dibromo-3-chloropropane	<1	<1	<1	<1	<1	<5	<5	<5	<5	<5
1,2-dibromoethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-butanone (mek)	<5	<5	<5	<5	<5	<5	<5	<5	<10	<10
2-hexanone (mbk)	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
4-methyl-2-pentanone (mibk)	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Acetone	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Acrylonitrile	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Antimony, total	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Arsenic, total	<4.0	6.1	24.3	11.0	10.6	<4.0	<4.0	10.4	<4.0	<4.0
Barium, total	684.0	632.0	371.0	273.0	97.7	75.7	623.0	874.0	274.0	376.0
Benzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Beryllium, total	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Bromochloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromodichloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromoform	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromomethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cadmium, total	2.5	<8	<8	<8	<8	<8	<8	<8	<8	<8
Carbon disulfide	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon tetrachloride	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chromium, total	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0
Cis-1,2-dichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cis-1,3-dichloropropene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cobalt, total	<8	<8	<8	1.0	1.5	<8	<4	<4	.9	2.6
Copper, total	9.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	33.6	<4.0	<4.0
Dibromochloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromomethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Lead, total	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Methyl iodide	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene chloride	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Nickel, total	<4.0	<4.0	<4.0	4.6	8.1	<4.0	<4.0	<4.0	<4.0	<4.0
Selenium, total	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Silver, total	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Styrene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Thallium, total	<4.0	<4.0	<4.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Toluene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total suspended solids										
Trans-1,2-dichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,3-dichloropropene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,4-dichloro-2-butene	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Trichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vanadium, total	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
Vinyl acetate	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Vinyl chloride	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Zinc, total	13.1	<8.0	<8.0	39.1	23.6	<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 MW88-2

Constituents	3/20/2023	9/12/2023	3/12/2024	9/30/2024	3/24/2025	9/9/2025
1,1,1,2-tetrachloroethane	<1	<1	<1	<1	<1	<1
1,1,1-trichloroethane	<1	<1	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	<1	<1	<1	<1	<1	<1
1,1,2-trichloroethane	<1	<1	<1	<1	<1	<1
1,1-dichloroethane	<1	<1	<1	<1	<1	<1
1,1-dichloroethylene	<1	<1	<1	<1	<1	<1
1,2,3-trichloropropane	<1	<1	<1	<1	<1	<1
1,2-dibromo-3-chloropropane	<5	<5	<5	<5	<5	<5
1,2-dibromoethane	<1	<1	<1	<1	<1	<1
1,2-dichlorobenzene	<1	<1	<1	<1	<1	<1
1,2-dichloroethane	<1	<1	<1	<1	<1	<1
1,2-dichloropropane	<1	<1	<1	<1	<1	<1
1,4-dichlorobenzene	<1	<1	<1	<1	<1	<1
2-butanone (mek)	<10	<10	<10	<10	<10	<10
2-hexanone (mbk)	<5	<5	<5	<5	<5	<5
4-methyl-2-pentanone (mibk)	<5	<5	<5	<5	<5	<5
Acetone	<10	<10	<10	<10	<10	<10
Acrylonitrile	<5	<5	<5	<5	<5	<5
Antimony, total	<2	<2	<2	<2	<2	<1
Arsenic, total	<4.0	5.1	12.7	19.3	<4.0	<2.0
Barium, total	152.0	287.0	270.0	357.0	297.0	169.0
Benzene	<1	<1	<1	<1	<1	<1
Beryllium, total	<4.0	<4.0	<4.0	<4.0	<4.0	<.5
Bromochloromethane	<1	<1	<1	<1	<1	<1
Bromodichloromethane	<1	<1	<1	<1	<1	<1
Bromoform	<1	<1	<1	<1	<1	<1
Bromomethane	<1	<1	<1	<1	<1	<1
Cadmium, total	<.8	<.8	<.8	<.8	<.8	.2
Carbon disulfide	<1	<1	<1	<1	<1	<1
Carbon tetrachloride	<1	<1	<1	<1	<1	<1
Chlorobenzene	<1	<1	<1	<1	<1	<1
Chloroethane	<1	<1	<1	<1	<1	<1
Chloroform	<1	<1	<1	<1	<1	<1
Chloromethane	<1	<1	<1	<1	<1	<1
Chromium, total	<8.0	<8.0	<8.0	<8.0	<8.0	2.2
Cis-1,2-dichloroethylene	<1	<1	<1	<1	<1	<1
Cis-1,3-dichloropropene	<1	<1	<1	<1	<1	<1
Cobalt, total	.8	.4	.8	<.4	.7	1.1
Copper, total	<4.0	<4.0	<4.0	<4.0	<4.0	14.5
Dibromochloromethane	<1	<1	<1	<1	<1	<1
Dibromomethane	<1	<1	<1	<1	<1	<1
Ethylbenzene	<1	<1	<1	<1	<1	<1
Lead, total	<4	<4	<4	<4	<4	<1
Methyl iodide	<1	<1	<1	<1	<1	<1
Methylene chloride	<5	<5	<5	<5	<5	<5
Nickel, total	<4.0	<4.0	<4.0	<4.0	4.0	6.9
Selenium, total	<4	<4	<4	<4	<4	<2
Silver, total	<4	<4	<4	<4	<4	<5
Styrene	<1	<1	<1	<1	<1	<1
Tetrachloroethylene	<1	<1	<1	<1	<1	<1
Thallium, total	<2.0	<2.0	<2.0	<2.0	<2.0	<.5
Toluene	<1	<1	<1	<1	<1	<1
Total suspended solids						
Trans-1,2-dichloroethylene	<1	<1	<1	<1	<1	<1
Trans-1,3-dichloropropene	<1	<1	<1	<1	<1	<1
Trans-1,4-dichloro-2-butene	<5	<5	<5	<5	<5	<5
Trichloroethylene	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	<1	<1	<1	<1	<1	<1
Vanadium, total	<20	<20	<20	<20	<20	<2
Vinyl acetate	<5	<5	<5	<5	<5	<5
Vinyl chloride	<1	<1	<1	<1	<1	<1
Xylenes, total	<2	<2	<2	<2	<2	<2
Zinc, total	<20.0	<20.0	<20.0	<20.0	<20.0	12.0

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

Table 9

Analytical Data Summary for MW88-3

Constituents	Units	3/13/2014	9/18/2014	3/17/2015	9/11/2015	3/16/2016	9/8/2016	3/17/2017	6/8/2017	9/19/2017
1,1,1,2-tetrachloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1		<1
1,1,1-trichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1		<1
1,1,2,2-tetrachloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1		<1
1,1,2-trichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1		<1
1,1-dichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1		<1
1,1-dichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1		<1
1,2,3-trichloropropane	ug/L	<1	<1	<1	<1	<1	<1	<1		<1
1,2-dibromo-3-chloropropane	ug/L	<1	<1	<1	<1	<1	<1	<1		<1
1,2-dibromoethane	ug/L	<1	<1	<1	<1	<1	<1	<1		<1
1,2-dichlorobenzene	ug/L	<1	<1	<1	<1	<1	<1	<1		<1
1,2-dichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1		<1
1,2-dichloropropane	ug/L	<1	<1	<1	<1	<1	<1	<1		<1
1,4-dichlorobenzene	ug/L	<1	<1	<1	<1	<1	<1	<1		<1
2-butanone (mek)	ug/L	<5	<5	<5	<5	<5	<5	<5		<5
2-hexanone (mbk)	ug/L	<5	<5	<5	<5	<5	<5	<5		<5
4-methyl-2-pentanone (mibk)	ug/L	<5	<5	<5	<5	<5	<5	<5		<5
Acetone	ug/L	<10	<10	<10	<10	<10	<10	<10		<10
Acrylonitrile	ug/L	<5	<5	<5	<5	<5	<5	<5		<5
Antimony, total	ug/L	<2	<2	<2	<2	<2	<2	<2		<2
Arsenic, total	ug/L	<4.0	<4.0	13.5	<4.0	<4.0	<4.0	9.6		<4.0
Barium, total	ug/L	129.0	107.0	167.0	97.4	111.0	113.0	169.0		158.0
Benzene	ug/L	<1	<1	<1	<1	<1	<1	<1		<1
Beryllium, total	ug/L	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0		<4.0
Bromochloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1		<1
Bromodichloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1		<1
Bromoform	ug/L	<1	<1	<1	<1	<1	<1	<1		<1
Bromomethane	ug/L	<1	<1	<1	<1	<1	<1	<1		<1
Cadmium, total	ug/L	<.8	1.2	<.8	<.8	1.8	<.8	<.8		<.8
Carbon disulfide	ug/L	<1	<1	<1	<1	<1	<1	<1		<1
Carbon tetrachloride	ug/L	<1	<1	<1	<1	<1	<1	<1		<1
Chlorobenzene	ug/L	<1	<1	<1	<1	<1	<1	<1		<1
Chloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1		<1
Chloroform	ug/L	<1	<1	<1	<1	<1	<1	<1		<1
Chloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1		<1
Chromium, total	ug/L	<8	<8	<8	<8	<8	<8	<8		<8
Cis-1,2-dichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1		<1
Cis-1,3-dichloropropene	ug/L	<1	<1	<1	<1	<1	<1	<1		<1
Cobalt, total	ug/L	<4.0	.9	1.1	<.8	<.8	<.8	1.8	.9	2.2
Copper, total	ug/L	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0		<4.0
Dibromochloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1		<1
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	6		<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
Styrene	ug/L	<1	<1	<1	<1	<1	<1	<1		<1
Tetrachloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1		<1
Thallium, total	ug/L	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0		<4.0
Toluene	ug/L	<1	<1	<1	<1	<1	<1	<1		<1
Total suspended solids	mg/L		408	81						
Trans-1,2-dichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1		<1
Trans-1,3-dichloropropene	ug/L	<1	<1	<1	<1	<1	<1	<1		<1
Trans-1,4-dichloro-2-butene	ug/L	<5	<5	<5	<5	<5	<5	<5		<5
Trichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1		<1
Trichlorofluoromethane	ug/L	<1	<1	<1	<1	<1	<1	<1		<1
Vanadium, total	ug/L	<20	<20	<20	<20	<20	<20	<20		<20
Vinyl acetate	ug/L	<5	<5	<5	<5	<5	<5	<5		<5
Vinyl chloride	ug/L	<1	<1	<1	<1	<1	<1	<1		<1
Xylenes, total	ug/L	<2	<2	<2	<2	<2	<2	<2		<2
Zinc, total	ug/L	<8.0	13.3	<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 MW88-3

Constituents	3/8/2018	9/24/2018	3/25/2019	9/3/2019	3/23/2020	9/4/2020	3/9/2021	9/7/2021	3/28/2022	9/14/2022
1,1,1,2-tetrachloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-trichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-trichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,3-trichloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dibromo-3-chloropropane	<1	<1	<1	<1	<5	<5	<5	<5	<5	<5
1,2-dibromoethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-butanone (mek)	<5	<5	<5	<5	<5	<5	<5	<5	<10	<10
2-hexanone (mbk)	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
4-methyl-2-pentanone (mibk)	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Acetone	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Acrylonitrile	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Antimony, total	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Arsenic, total	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Barium, total	155.0	123.0	127.0	150.0	145.0	128.0	139.0	155.0	153.0	155.0
Benzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Beryllium, total	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Bromochloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromodichloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromoform	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromomethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cadmium, total	<.8	<.8	<.8	<.8	<.8	<.8	<.8	<.8	<.8	<.8
Carbon disulfide	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon tetrachloride	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chromium, total	<8	<8	<8	<8	<8	<8	<8	<8	<8	<8
Cis-1,2-dichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cis-1,3-dichloropropene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cobalt, total	<.8	.8	<.8	<.8	<.8	<.4	<.4	.8	.4	6.8
Copper, total	15.4	<4.0	<4.0	<4.0	<4.0	<4.0	13.0	<4.0	4.7	<4.0
Dibromochloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromomethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Lead, total	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Methyl iodide	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene chloride	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Nickel, total	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Selenium, total	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Silver, total	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Styrene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Thallium, total	<4.0	<4.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Toluene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total suspended solids										
Trans-1,2-dichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,3-dichloropropene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,4-dichloro-2-butene	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Trichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vanadium, total	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
Vinyl acetate	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Vinyl chloride	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Zinc, total	13.2	<8.0	<8.0	<8.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0

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

Table 9

Analytical Data Summary for MW88-3

Constituents	3/20/2023	9/12/2023	3/12/2024	9/30/2024	11/25/2024	3/24/2025	9/9/2025
1,1,1,2-tetrachloroethane	<1	<1	<1	<1		<1	<1
1,1,1-trichloroethane	<1	<1	<1	<1		<1	<1
1,1,2,2-tetrachloroethane	<1	<1	<1	<1		<1	<1
1,1,2-trichloroethane	<1	<1	<1	<1		<1	<1
1,1-dichloroethane	<1	<1	<1	<1		<1	<1
1,1-dichloroethylene	<1	<1	<1	<1		<1	<1
1,2,3-trichloropropane	<1	<1	<1	<1		<1	<1
1,2-dibromo-3-chloropropane	<5	<5	<5	<5		<5	<5
1,2-dibromoethane	<1	<1	<1	<1		<1	<1
1,2-dichlorobenzene	<1	<1	<1	<1		<1	<1
1,2-dichloroethane	<1	<1	<1	<1		<1	<1
1,2-dichloropropane	<1	<1	<1	<1		<1	<1
1,4-dichlorobenzene	<1	<1	<1	<1		<1	<1
2-butanone (mek)	<10	<10	<10	<10		<10	<10
2-hexanone (mbk)	<5	<5	<5	<5		<5	<5
4-methyl-2-pentanone (mibk)	<5	<5	<5	<5		<5	<5
Acetone	<10	<10	<10	<10		<10	<10
Acrylonitrile	<5	<5	<5	<5		<5	<5
Antimony, total	<2	<2	<2	<2		<2	<1
Arsenic, total	<4.0	<4.0	<4.0	<4.0		<4.0	<2.0
Barium, total	129.0	126.0	134.0	136.0		146.0	124.0
Benzene	<1	<1	<1	<1		<1	<1
Beryllium, total	<4.0	<4.0	<4.0	<4.0		<4.0	<5
Bromochloromethane	<1	<1	<1	<1		<1	<1
Bromodichloromethane	<1	<1	<1	<1		<1	<1
Bromoform	<1	<1	<1	<1		<1	<1
Bromomethane	<1	<1	<1	<1		<1	<1
Cadmium, total	<.8	<.8	<.8	5.6	<.2	<.8	2.4
Carbon disulfide	<1	<1	<1	<1		<1	<1
Carbon tetrachloride	<1	<1	<1	<1		<1	<1
Chlorobenzene	<1	<1	<1	<1		<1	<1
Chloroethane	<1	<1	<1	<1		<1	<1
Chloroform	<1	<1	<1	<1		<1	<1
Chloromethane	<1	<1	<1	<1		<1	<1
Chromium, total	<8	<8	<8	<8		<8	<1
Cis-1,2-dichloroethylene	<1	<1	<1	<1		<1	<1
Cis-1,3-dichloropropene	<1	<1	<1	<1		<1	<1
Cobalt, total	<.4	.4	<.4	<.4		<.4	.7
Copper, total	<4.0	<4.0	18.5	<4.0		<4.0	<5.0
Dibromochloromethane	<1	<1	<1	<1		<1	<1
Dibromomethane	<1	<1	<1	<1		<1	<1
Ethylbenzene	<1	<1	<1	<1		<1	<1
Lead, total	<4	<4	<4	<4		<4	<1
Methyl iodide	<1	<1	<1	<1		<1	<1
Methylene chloride	<5	<5	<5	<5		<5	<5
Nickel, total	<4	<4	<4	<4		<4	<5
Selenium, total	<4	<4	<4	<4		<4	<2
Silver, total	<4	<4	<4	<4		<4	<5
Styrene	<1	<1	<1	<1		<1	<1
Tetrachloroethylene	<1	<1	<1	<1		<1	<1
Thallium, total	<2.0	<2.0	<2.0	<2.0		<2.0	<5
Toluene	<1	<1	<1	<1		<1	<1
Total suspended solids							
Trans-1,2-dichloroethylene	<1	<1	<1	<1		<1	<1
Trans-1,3-dichloropropene	<1	<1	<1	<1		<1	<1
Trans-1,4-dichloro-2-butene	<5	<5	<5	<5		<5	<5
Trichloroethylene	<1	<1	<1	<1		<1	<1
Trichlorofluoromethane	<1	<1	<1	<1		<1	<1
Vanadium, total	<20	<20	<20	<20		<20	<2
Vinyl acetate	<5	<5	<5	<5		<5	<5
Vinyl chloride	<1	<1	<1	<1		<1	<1
Xylenes, total	<2	<2	<2	<2		<2	<2
Zinc, total	<20.0	<20.0	<20.0	<20.0		<20.0	7.9

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

Table 9

Analytical Data Summary for MW91-10

Constituents	Units	3/13/2014	9/18/2014	3/17/2015	9/11/2015	3/16/2016	9/8/2016	3/17/2017	9/19/2017	3/8/2018
1,1,1,2-tetrachloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-trichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-trichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,3-trichloropropane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dibromo-3-chloropropane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dibromoethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichlorobenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloropropane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-dichlorobenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-butanone (mek)	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
2-hexanone (mbk)	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
4-methyl-2-pentanone (mibk)	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
Acetone	ug/L	<10	<10	<10	<10	<10	<10	<10	<10	<10
Acrylonitrile	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
Antimony, total	ug/L	<2	<2	<2	<2	<2	<2	<2	<2	<2
Arsenic, total	ug/L	<4	<4	<4	<4	<4	<4	<4	<4	<4
Barium, total	ug/L	97.6	92.6	58.1	79.8	71.9	72.6	68.5	72.6	68.3
Benzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Beryllium, total	ug/L	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Bromochloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromodichloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromoform	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromomethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cadmium, total	ug/L	<.8	<.8	<.8	.8	2.6	<.8	.9	<.8	<.8
Carbon disulfide	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon tetrachloride	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chromium, total	ug/L	<8	<8	<8	<8	<8	<8	<8	<8	<8
Cis-1,2-dichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cis-1,3-dichloropropene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cobalt, total	ug/L	7.6	<.8	1.2	<.8	<.8	<.8	<.8	<.8	<.8
Copper, total	ug/L	12.2	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Dibromochloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromomethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Lead, total	ug/L	<4	<4	<4	<4	<4	<4	<4	<4	<4
Methyl iodide	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene chloride	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
Nickel, total	ug/L	10.4	<4.0	6.8	<4.0	<4.0	<4.0	<4.0	5.4	<4.0
Selenium, total	ug/L	<4.0	<4.0	4.3	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Silver, total	ug/L	<4	<4	<4	<4	<4	<4	<4	<4	<4
Styrene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Thallium, total	ug/L	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Toluene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total suspended solids	mg/L		25	33						
Trans-1,2-dichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,3-dichloropropene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,4-dichloro-2-butene	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
Trichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vanadium, total	ug/L	<20	<20	<20	<20	<20	<20	<20	<20	<20
Vinyl acetate	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
Vinyl chloride	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	ug/L	<2	<2	<2	<2	<2	<2	<2	<2	<2
Zinc, total	ug/L	28.6	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0

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

Table 9

Analytical Data Summary for MW91-10

Constituents	9/24/2018	3/25/2019	9/3/2019	3/23/2020	9/4/2020	3/9/2021	9/7/2021	3/28/2022	9/14/2022	3/20/2023
1,1,1,2-tetrachloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-trichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-trichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,3-trichloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dibromo-3-chloropropane	<1	<1	<1	<5	<5	<5	<5	<5	<5	<5
1,2-dibromoethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-butanone (mek)	<5	<5	<5	<5	<5	<5	<5	<10	<10	<10
2-hexanone (mbk)	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
4-methyl-2-pentanone (mibk)	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Acetone	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Acrylonitrile	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Antimony, total	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Arsenic, total	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Barium, total	62.0	65.0	70.7	66.5	51.1	46.6	50.0	43.8	44.5	39.2
Benzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Beryllium, total	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Bromochloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromodichloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromoform	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromomethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cadmium, total	<.8	<.8	<.8	<.8	<.8	<.8	<.8	<.8	<.8	<.8
Carbon disulfide	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon tetrachloride	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chromium, total	<8	<8	<8	<8	<8	<8	<8	<8	<8	<8
Cis-1,2-dichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cis-1,3-dichloropropene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cobalt, total	<.8	<.8	<.8	<.8	<.4	<.4	<.4	<.4	2.3	<.4
Copper, total	<4.0	<4.0	<4.0	<4.0	<4.0	29.0	<4.0	<4.0	<4.0	<4.0
Dibromochloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromomethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Lead, total	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Methyl iodide	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene chloride	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Nickel, total	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Selenium, total	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	4.0	<4.0
Silver, total	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Styrene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Thallium, total	<4.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Toluene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total suspended solids										
Trans-1,2-dichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,3-dichloropropene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,4-dichloro-2-butene	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Trichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vanadium, total	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
Vinyl acetate	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Vinyl chloride	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Zinc, total	<8.0	<8.0	<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 MW91-10

Constituents	9/12/2023	3/12/2024	9/30/2024	3/24/2025	9/9/2025
1,1,1,2-tetrachloroethane	<1	<1	<1	<1	<1
1,1,1-trichloroethane	<1	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	<1	<1	<1	<1	<1
1,1,2-trichloroethane	<1	<1	<1	<1	<1
1,1-dichloroethane	<1	<1	<1	<1	<1
1,1-dichloroethylene	<1	<1	<1	<1	<1
1,2,3-trichloropropane	<1	<1	<1	<1	<1
1,2-dibromo-3-chloropropane	<5	<5	<5	<5	<5
1,2-dibromoethane	<1	<1	<1	<1	<1
1,2-dichlorobenzene	<1	<1	<1	<1	<1
1,2-dichloroethane	<1	<1	<1	<1	<1
1,2-dichloropropane	<1	<1	<1	<1	<1
1,4-dichlorobenzene	<1	<1	<1	<1	<1
2-butanone (mek)	<10	<10	<10	<10	<10
2-hexanone (mbk)	<5	<5	<5	<5	<5
4-methyl-2-pentanone (mibk)	<5	<5	<5	<5	<5
Acetone	<10	<10	<10	<10	<10
Acrylonitrile	<5	<5	<5	<5	<5
Antimony, total	<2	<2	<2	<2	<1
Arsenic, total	<4	<4	<4	<4	<2
Barium, total	45.4	40.7	39.8	38.4	35.7
Benzene	<1	<1	<1	<1	<1
Beryllium, total	<4.0	<4.0	<4.0	<4.0	<5
Bromochloromethane	<1	<1	<1	<1	<1
Bromodichloromethane	<1	<1	<1	<1	<1
Bromoform	<1	<1	<1	<1	<1
Bromomethane	<1	<1	<1	<1	<1
Cadmium, total	<.8	<.8	<.8	1.1	<.2
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	<1
Cis-1,2-dichloroethylene	<1	<1	<1	<1	<1
Cis-1,3-dichloropropene	<1	<1	<1	<1	<1
Cobalt, total	<.4	<.4	<.4	<.4	.8
Copper, total	<4.0	<4.0	<4.0	<4.0	<5.0
Dibromochloromethane	<1	<1	<1	<1	<1
Dibromomethane	<1	<1	<1	<1	<1
Ethylbenzene	<1	<1	<1	<1	<1
Lead, total	<4	<4	<4	<4	<1
Methyl iodide	<1	<1	<1	<1	<1
Methylene chloride	<5	<5	<5	<5	<5
Nickel, total	<4.0	<4.0	<4.0	<4.0	<5.0
Selenium, total	<4.0	<4.0	4.4	8.6	4.9
Silver, total	<4	<4	<4	<4	<5
Styrene	<1	<1	<1	<1	<1
Tetrachloroethylene	<1	<1	<1	<1	<1
Thallium, total	<2.0	<2.0	<2.0	<2.0	<.5
Toluene	<1	<1	<1	<1	<1
Total suspended solids					
Trans-1,2-dichloroethylene	<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
Trichloroethylene	<1	<1	<1	<1	<1
Trichlorofluoromethane	<1	<1	<1	<1	<1
Vanadium, total	<20	<20	<20	<20	<2
Vinyl acetate	<5	<5	<5	<5	<5
Vinyl chloride	<1	<1	<1	<1	<1
Xylenes, total	<2	<2	<2	<2	<2
Zinc, total	<20.0	<20.0	<20.0	<20.0	15.8

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

Table 9

Analytical Data Summary for MW91-8

Constituents	Units	3/13/2014	9/19/2014	11/13/2014	3/17/2015	6/29/2015	9/11/2015	3/16/2016	6/7/2016	9/8/2016
1,1,1,2-tetrachloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<2	<1
1,1,1-trichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<2	<1
1,1,2,2-tetrachloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<2	<1
1,1,2-trichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<2	<1
1,1-dichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<2	<1
1,1-dichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<2	<1
1,2,3-trichloropropane	ug/L	<1	<1	<1	<1	<1	<1	<1	<2	<1
1,2-dibromo-3-chloropropane	ug/L	<1	<1	<1	<1	<1	<1	<1	<2	<1
1,2-dibromoethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<2	<1
1,2-dichlorobenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<2	<1
1,2-dichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<2	<1
1,2-dichloropropane	ug/L	<1	<1	<1	<1	<1	<1	<1	<2	<1
1,4-dichlorobenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<2	<1
2-butanone (mek)	ug/L	<5	<5	<5	<5	<5	<5	<5	<10	<5
2-hexanone (mbk)	ug/L	<5	<5	<5	<5	<5	<5	<5	<10	<5
4-methyl-2-pentanone (mibk)	ug/L	<5	<5	<5	<5	<5	<5	<5	<10	<5
Acetone	ug/L	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<20.0	<10.0
Acrylonitrile	ug/L	<5	<5	<5	<5	<5	<5	<5	<10	<5
Antimony, total	ug/L	<2	<2	<2	<2	<2	<2	<2	<2	<2
Arsenic, total	ug/L	<4	<4	<4	<4	<4	<4	<4	<4	<4
Barium, total	ug/L	83.4	84.7	106.0	102.0	97.8	104.0	103.0		147.0
Benzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<2	<1
Beryllium, total	ug/L	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0		<4.0
Bromochloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<2	<1
Bromodichloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<2	<1
Bromoform	ug/L	<1	<1	<1	<1	<1	<1	<1	<2	<1
Bromomethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<2	<1
Cadmium, total	ug/L	<8	<8	<8	2.3	<8	2.4	1.4		<8
Carbon disulfide	ug/L	<1	<1	<1	<1	<1	<1	<1	<2	<1
Carbon tetrachloride	ug/L	<1	<1	<1	<1	<1	<1	<1	<2	<1
Chlorobenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<2	<1
Chloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<2	<1
Chloroform	ug/L	<1	<1	<1	<1	<1	<1	<1	<2	<1
Chloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<2	<1
Chromium, total	ug/L	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0		<8.0
Cis-1,2-dichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<2	<1
Cis-1,3-dichloropropene	ug/L	<1	<1	<1	<1	<1	<1	<1	<2	<1
Cobalt, total	ug/L	<4.0	<8	<8	<8	<8	<8	<8		<8
Copper, total	ug/L	<4	<4	<4	<4	<4	<4	<4	<4	<4
Dibromochloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<2	<1
Dibromomethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<2	<1
Ethylbenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<2	<1
Lead, total	ug/L	<4	<4	<4	<4	<4	<4	<4		<4
Methyl iodide	ug/L	<1	<1	<1	<1	<1	<1	<1	<2	<1
Methylene chloride	ug/L	<5	<5	<5	<5	<5	<5	<5	<10	<5
Nickel, total	ug/L	<4	<4	<4	<4	<4	<4	<4		<4
Selenium, total	ug/L	4.3	5.1	<4.0	<4.0	<4.0	<4.0	<4.0		<4.0
Silver, total	ug/L	<4	<4	<4	<4	<4	<4	<4		<4
Styrene	ug/L	<1	<1	<1	<1	<1	<1	<1	<2	<1
Tetrachloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<2	<1
Thallium, total	ug/L	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0		<4.0
Toluene	ug/L	<1	<1	<1	<1	<1	<1	<1	<2	<1
Total suspended solids	mg/L		28		14					
Trans-1,2-dichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<2	<1
Trans-1,3-dichloropropene	ug/L	<1	<1	<1	<1	<1	<1	<1	<2	<1
Trans-1,4-dichloro-2-butene	ug/L	<5	<5	<5	<5	<5	<5	33	<10	<5
Trichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<2	<1
Trichlorofluoromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<2	<1
Vanadium, total	ug/L	<20	<20	<20	<20	<20	<20	<20		<20
Vinyl acetate	ug/L	<5	<5	<5	<5	<5	<5	<5	<10	<5
Vinyl chloride	ug/L	<1	<1	<1	<1	<1	<1	<1	<2	<1
Xylenes, total	ug/L	<2	<2	<2	<2	<2	<2	<2	<4	<2
Zinc, total	ug/L	<8.0	<8.0	<20.0	<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 MW91-8

Constituents	3/17/2017	9/19/2017	12/1/2017	3/8/2018	9/24/2018	3/25/2019	9/3/2019	3/23/2020	9/4/2020	3/9/2021
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-dichloroethylene	<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	<1	<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	<10.0	12.4	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
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	93.5	108.0		96.0	96.9	88.4	103.0	92.9	95.3	90.7
Benzene	<1	<1		<1	<1	<1	<1	<1	<1	<1
Beryllium, total	<4.0	<4.0		<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Bromochloromethane	<1	<1		<1	<1	<1	<1	<1	<1	<1
Bromodichloromethane	<1	<1		<1	<1	<1	<1	<1	<1	<1
Bromoform	<1	<1		<1	<1	<1	<1	<1	<1	<1
Bromomethane	<1	<1		<1	<1	<1	<1	<1	<1	<1
Cadmium, total	1.3	2.2		<8	<8	<8	<8	<8	<8	<8
Carbon disulfide	<1	<1		<1	<1	<1	<1	<1	<1	<1
Carbon tetrachloride	<1	<1		<1	<1	<1	<1	<1	<1	<1
Chlorobenzene	<1	<1		<1	<1	<1	<1	<1	<1	<1
Chloroethane	<1	<1		<1	<1	<1	<1	<1	<1	<1
Chloroform	<1	<1		<1	<1	<1	<1	<1	<1	<1
Chloromethane	<1	<1		<1	<1	<1	<1	<1	<1	<1
Chromium, total	<8.0	<8.0		<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0
Cis-1,2-dichloroethylene	<1	<1		<1	<1	<1	<1	<1	<1	<1
Cis-1,3-dichloropropene	<1	<1		<1	<1	<1	<1	<1	<1	<1
Cobalt, total	<8	<8		<8	<8	<8	<8	<8	<8	<8
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	<4		<4	<4	<4	<4	<4	<4	<4
Selenium, total	<4.0	<4.0		<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Silver, total	<4	<4		<4	<4	<4	<4	<4	<4	<4
Styrene	<1	<1		<1	<1	<1	<1	<1	<1	<1
Tetrachloroethylene	<1	<1		<1	<1	<1	<1	<1	<1	<1
Thallium, total	<4.0	<4.0		<4.0	<4.0	<2.0	<2.0	<2.0	<2.0	<2.0
Toluene	<1	<1		<1	<1	<1	<1	<1	<1	<1
Total suspended solids										
Trans-1,2-dichloroethylene	<1	<1		<1	<1	<1	<1	<1	<1	<1
Trans-1,3-dichloropropene	<1	<1		<1	<1	<1	<1	<1	<1	<1
Trans-1,4-dichloro-2-butene	<5	<5		<5	<5	<5	<5	<5	<5	<5
Trichloroethylene	<1	<1		<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	<1	<1		<1	<1	<1	<1	<1	<1	<1
Vanadium, total	<20	<20		<20	<20	<20	<20	<20	<20	<20
Vinyl acetate	<5	<5		<5	<5	<5	<5	<5	<5	<5
Vinyl chloride	<1	<1		<1	<1	<1	<1	<1	<1	<1
Xylenes, total	<2	<2		<2	<2	<2	<2	<2	<2	<2
Zinc, total	8.7	<8.0		<8.0	<8.0	<8.0	<8.0	<20.0	<20.0	<20.0

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

Table 9

Analytical Data Summary for MW91-8

Constituents	9/7/2021	3/28/2022	9/14/2022	3/20/2023	9/13/2023	3/12/2024	9/30/2024	3/24/2025	9/9/2025
1,1,1,2-tetrachloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-trichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-trichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,3-trichloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dibromo-3-chloropropane	<5	<5	<5	<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
1,4-dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-butanone (mek)	<5	<10	<10	<10	<10	<10	<10	<10	<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	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Acrylonitrile	<5	<5	<5	<5	<5	<5	<5	<5	<5
Antimony, total	<2	<2	<2	<2	<2	<2	<2	<1	<1
Arsenic, total	<4	<4	<4	<4	<4	<4	<4	<2	<2
Barium, total	118.0	101.0	125.0	109.0	123.0	107.0	109.0	96.4	109.0
Benzene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Beryllium, total	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<5	<5
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	.5	.2
Carbon disulfide	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon tetrachloride	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chromium, total	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	1.6	<1.0
Cis-1,2-dichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cis-1,3-dichloropropene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cobalt, total	<.4	<.4	2.7	<.4	<.4	<.4	<.4	<.5	<.5
Copper, total	<4	<4	<4	<4	<4	<4	<4	<4	<5
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	<1	<1
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	<4	<4	<4	<4	<4	<4	<4	<5
Selenium, total	4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	2.1	3.3
Silver, total	<4	<4	<4	<4	<4	<4	<4	<5	<5
Styrene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Thallium, total	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<.5	<.5
Toluene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total suspended solids									
Trans-1,2-dichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,3-dichloropropene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,4-dichloro-2-butene	<5	<5	<5	<5	<5	<5	<5	<5	<5
Trichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vanadium, total	<20	<20	<20	<20	<20	<20	<20	<2	<2
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	<20.0	<20.0	<20.0	<20.0	<20.0	<5.0	6.3

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

Table 9

Analytical Data Summary for MW94-18

Constituents	Units	3/13/2014	9/18/2014	3/17/2015	9/11/2015	3/16/2016	9/8/2016	3/17/2017	9/19/2017	3/8/2018
1,1,1,2-tetrachloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-trichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-trichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,3-trichloropropane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dibromo-3-chloropropane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dibromoethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichlorobenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloropropane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-dichlorobenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-butanone (mek)	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
2-hexanone (mbk)	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
4-methyl-2-pentanone (mibk)	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
Acetone	ug/L	<10	<10	<10	<10	<10	<10	<10	<10	<10
Acrylonitrile	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
Antimony, total	ug/L	<2	<2	<2	<2	<2	<2	<2	<2	<2
Arsenic, total	ug/L	<4	<4	<4	<4	<4	<4	<4	<4	<4
Barium, total	ug/L	41.5	47.6	33.1	42.9	42.3	42.3	37.7	42.4	29.6
Benzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Beryllium, total	ug/L	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Bromochloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromodichloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromoform	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromomethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cadmium, total	ug/L	<.8	<.8	<.8	<.8	3.1	<.8	<.8	<.8	<.8
Carbon disulfide	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon tetrachloride	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chromium, total	ug/L	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0
Cis-1,2-dichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cis-1,3-dichloropropene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cobalt, total	ug/L	<4.0	<.8	<.8	<.8	<.8	<.8	<.8	<.8	<.8
Copper, total	ug/L	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Dibromochloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromomethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Lead, total	ug/L	<4	<4	<4	<4	<4	<4	<4	<4	<4
Methyl iodide	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene chloride	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
Nickel, total	ug/L	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Selenium, total	ug/L	<4.0	<4.0	4.4	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Silver, total	ug/L	<4	<4	<4	<4	<4	<4	<4	<4	<4
Styrene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Thallium, total	ug/L	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Toluene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total suspended solids	mg/L		43	10						
Trans-1,2-dichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,3-dichloropropene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,4-dichloro-2-butene	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
Trichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vanadium, total	ug/L	<20	<20	<20	<20	<20	<20	<20	<20	<20
Vinyl acetate	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
Vinyl chloride	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	ug/L	<2	<2	<2	<2	<2	<2	<2	<2	<2
Zinc, total	ug/L	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0

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

Table 9

Analytical Data Summary for MW94-18

Constituents	9/24/2018	3/25/2019	9/3/2019	3/23/2020	9/4/2020	3/9/2021	9/7/2021	3/28/2022	9/14/2022	3/20/2023
1,1,1,2-tetrachloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-trichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-trichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,3-trichloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dibromo-3-chloropropane	<1	<1	<1	<5	<5	<5	<5	<5	<5	<5
1,2-dibromoethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-butanone (mek)	<5	<5	<5	<5	<5	<5	<5	<10	<10	<10
2-hexanone (mbk)	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
4-methyl-2-pentanone (mibk)	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Acetone	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Acrylonitrile	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Antimony, total	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Arsenic, total	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Barium, total	32.0	26.2	31.3	<4.0	25.6	23.6	31.4	23.3	31.6	22.4
Benzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Beryllium, total	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Bromochloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromodichloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromoform	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromomethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cadmium, total	<.8	<.8	<.8	<.8	<.8	<.8	<.8	<.8	<.8	<.8
Carbon disulfide	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon tetrachloride	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chromium, total	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0
Cis-1,2-dichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cis-1,3-dichloropropene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cobalt, total	<.8	<.8	<.8	<.8	<.4	<.4	<.4	<.4	2.1	<.4
Copper, total	<4.0	<4.0	<4.0	<4.0	<4.0	46.2	<4.0	<4.0	<4.0	<4.0
Dibromochloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromomethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Lead, total	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Methyl iodide	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene chloride	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Nickel, total	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Selenium, total	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	4.3	<4.0	<4.0	4.0
Silver, total	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Styrene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Thallium, total	<4.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Toluene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total suspended solids										
Trans-1,2-dichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,3-dichloropropene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,4-dichloro-2-butene	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Trichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vanadium, total	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
Vinyl acetate	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Vinyl chloride	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Zinc, total	<8.0	<8.0	16.4	<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 MW94-18

Constituents	9/12/2023	3/12/2024	9/30/2024	3/24/2025	9/9/2025
1,1,1,2-tetrachloroethane	<1	<1	<1	<1	<1
1,1,1-trichloroethane	<1	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	<1	<1	<1	<1	<1
1,1,2-trichloroethane	<1	<1	<1	<1	<1
1,1-dichloroethane	<1	<1	<1	<1	<1
1,1-dichloroethylene	<1	<1	<1	<1	<1
1,2,3-trichloropropane	<1	<1	<1	<1	<1
1,2-dibromo-3-chloropropane	<5	<5	<5	<5	<5
1,2-dibromoethane	<1	<1	<1	<1	<1
1,2-dichlorobenzene	<1	<1	<1	<1	<1
1,2-dichloroethane	<1	<1	<1	<1	<1
1,2-dichloropropane	<1	<1	<1	<1	<1
1,4-dichlorobenzene	<1	<1	<1	<1	<1
2-butanone (mek)	<10	<10	<10	<10	<10
2-hexanone (mbk)	<5	<5	<5	<5	<5
4-methyl-2-pentanone (mibk)	<5	<5	<5	<5	<5
Acetone	<10	<10	<10	<10	<10
Acrylonitrile	<5	<5	<5	<5	<5
Antimony, total	<2	<2	<2	<2	<1
Arsenic, total	<4	<4	<4	<4	<2
Barium, total	39.7	24.4	27.6	25.2	31.5
Benzene	<1	<1	<1	<1	<1
Beryllium, total	<4.0	<4.0	<4.0	<4.0	<5
Bromochloromethane	<1	<1	<1	<1	<1
Bromodichloromethane	<1	<1	<1	<1	<1
Bromoform	<1	<1	<1	<1	<1
Bromomethane	<1	<1	<1	<1	<1
Cadmium, total	<.8	<.8	<.8	<.8	1.8
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	<8.0	<8.0	<8.0	<8.0	1.1
Cis-1,2-dichloroethylene	<1	<1	<1	<1	<1
Cis-1,3-dichloropropene	<1	<1	<1	<1	<1
Cobalt, total	<.4	<.4	<.4	<.4	.7
Copper, total	<4.0	5.7	<4.0	<4.0	9.2
Dibromochloromethane	<1	<1	<1	<1	<1
Dibromomethane	<1	<1	<1	<1	<1
Ethylbenzene	<1	<1	<1	<1	<1
Lead, total	<4	<4	<4	<4	<1
Methyl iodide	<1	<1	<1	<1	<1
Methylene chloride	<5	<5	<5	<5	<5
Nickel, total	<4.0	<4.0	<4.0	<4.0	15.6
Selenium, total	<4.0	<4.0	<4.0	<4.0	2.4
Silver, total	<4	<4	<4	<4	<5
Styrene	<1	<1	<1	<1	<1
Tetrachloroethylene	<1	<1	<1	<1	<1
Thallium, total	<2.0	<2.0	<2.0	<2.0	<5
Toluene	<1	<1	<1	<1	<1
Total suspended solids					
Trans-1,2-dichloroethylene	<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
Trichloroethylene	<1	<1	<1	<1	<1
Trichlorofluoromethane	<1	<1	<1	<1	<1
Vanadium, total	<20	<20	<20	<20	<2
Vinyl acetate	<5	<5	<5	<5	<5
Vinyl chloride	<1	<1	<1	<1	<1
Xylenes, total	<2	<2	<2	<2	<2
Zinc, total	<20.0	<20.0	<20.0	<20.0	16.7

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

Table 9

Analytical Data Summary for MW94-19

Constituents	Units	3/13/2014	9/18/2014	3/17/2015	9/11/2015	3/16/2016	9/8/2016	3/17/2017	9/19/2017	3/8/2018
1,1,1,2-tetrachloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-trichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-trichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,3-trichloropropane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dibromo-3-chloropropane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dibromoethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichlorobenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloropropane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-dichlorobenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-butanone (mek)	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
2-hexanone (mbk)	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
4-methyl-2-pentanone (mibk)	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
Acetone	ug/L	<10	<10	<10	<10	<10	<10	<10	<10	<10
Acrylonitrile	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
Antimony, total	ug/L	<2	<2	<2	<2	<2	<2	<2	<2	<2
Arsenic, total	ug/L	<4	<4	<4	<4	<4	<4	<4	<4	<4
Barium, total	ug/L	174.0	93.2	82.0	66.0	81.7	75.8	96.3	108.0	83.3
Benzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Beryllium, total	ug/L	<4	<4	<4	<4	<4	<4	<4	<4	<4
Bromochloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromodichloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromoform	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromomethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cadmium, total	ug/L	3.2	<8	<8	.8	1.0	<8	3.1	<8	<8
Carbon disulfide	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon tetrachloride	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chromium, total	ug/L	<8	<8	<8	<8	<8	<8	<8	<8	<8
Cis-1,2-dichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cis-1,3-dichloropropene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cobalt, total	ug/L	5.7	<8	<8	1.0	.9	<8	1.0	1.3	<8
Copper, total	ug/L	21.3	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Dibromochloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromomethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Lead, total	ug/L	<4	<4	<4	<4	<4	<4	<4	<4	<4
Methyl iodide	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene chloride	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
Nickel, total	ug/L	39.7	4.2	<4.0	6.0	10.5	6.2	10.0	8.1	<4.0
Selenium, total	ug/L	<4	<4	<4	<4	<4	<4	<4	<4	<4
Silver, total	ug/L	<4	<4	<4	<4	<4	<4	<4	<4	<4
Styrene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Thallium, total	ug/L	<4	<4	<4	<4	<4	<4	<4	<4	<4
Toluene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total suspended solids	mg/L		207	29						
Trans-1,2-dichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,3-dichloropropene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,4-dichloro-2-butene	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
Trichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vanadium, total	ug/L	<20	<20	<20	<20	<20	<20	<20	<20	<20
Vinyl acetate	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
Vinyl chloride	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	ug/L	<2	<2	<2	<2	<2	<2	<2	<2	<2
Zinc, total	ug/L	49.3	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0

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

Table 9

Analytical Data Summary for MW94-19

Constituents	9/24/2018	3/25/2019
1,1,1,2-tetrachloroethane	<1	<1
1,1,1-trichloroethane	<1	<1
1,1,2,2-tetrachloroethane	<1	<1
1,1,2-trichloroethane	<1	<1
1,1-dichloroethane	<1	<1
1,1-dichloroethylene	<1	<1
1,2,3-trichloropropane	<1	<1
1,2-dibromo-3-chloropropane	<1	<1
1,2-dibromoethane	<1	<1
1,2-dichlorobenzene	<1	<1
1,2-dichloroethane	<1	<1
1,2-dichloropropane	<1	<1
1,4-dichlorobenzene	<1	<1
2-butanone (mek)	<5	<5
2-hexanone (mbk)	<5	<5
4-methyl-2-pentanone (mibk)	<5	<5
Acetone	<10	<10
Acrylonitrile	<5	<5
Antimony, total	<2	<2
Arsenic, total	<4	<4
Barium, total	86.7	84.3
Benzene	<1	<1
Beryllium, total	<4	<4
Bromochloromethane	<1	<1
Bromodichloromethane	<1	<1
Bromoform	<1	<1
Bromomethane	<1	<1
Cadmium, total	<.8	<.8
Carbon disulfide	<1	<1
Carbon tetrachloride	<1	<1
Chlorobenzene	<1	<1
Chloroethane	<1	<1
Chloroform	<1	<1
Chloromethane	<1	<1
Chromium, total	<8	<8
Cis-1,2-dichloroethylene	<1	<1
Cis-1,3-dichloropropene	<1	<1
Cobalt, total	<.8	<.8
Copper, total	<4.0	<4.0
Dibromochloromethane	<1	<1
Dibromomethane	<1	<1
Ethylbenzene	<1	<1
Lead, total	<4	<4
Methyl iodide	<1	<1
Methylene chloride	<5	<5
Nickel, total	<4.0	8.5
Selenium, total	<4	<4
Silver, total	<4	<4
Styrene	<1	<1
Tetrachloroethylene	<1	<1
Thallium, total	<4	<2
Toluene	<1	<1
Total suspended solids		
Trans-1,2-dichloroethylene	<1	<1
Trans-1,3-dichloropropene	<1	<1
Trans-1,4-dichloro-2-butene	<5	<5
Trichloroethylene	<1	<1
Trichlorofluoromethane	<1	<1
Vanadium, total	<20	<20
Vinyl acetate	<5	<5
Vinyl chloride	<1	<1
Xylenes, total	<2	<2
Zinc, total	<8.0	<8.0

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

Table 9

Analytical Data Summary for MW96-21

Constituents	Units	3/14/2014	9/18/2014	3/17/2017	9/20/2017	3/8/2018	9/24/2018	12/20/2018	3/25/2019
(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-dichloroethylene	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	<10	<10	<10	<10	<10		<10
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 MW96-21

Constituents	9/3/2019	3/23/2020	9/4/2020	3/9/2021	9/7/2021	3/28/2022	9/14/2022	3/20/2023	9/12/2023
(3,4)-methylphenol									<8
1,1,1,2-tetrachloroethane	<1	<1	<1	<1	<1	<5	<1	<1	<1
1,1,1-trichloroethane	<1	<1	<1	<1	<1	<5	<1	<1	<1
1,1,2,2-tetrachloroethane	<1	<1	<1	<1	<1	<5	<1	<1	<1
1,1,2-trichloroethane	<1	<1	<1	<1	<1	<5	<1	<1	<1
1,1-dichloroethane	<1	<1	<1	<1	<1	<5	<1	<1	<1
1,1-dichloroethylene	<1	<1	<1	<1	<1	<5	<1	<1	<1
1,1-dichloropropene									<1
1,2,3-trichloropropane	<1	<1	<1	<1	<1	<5	<1	<1	<1
1,2,4,5-tetrachlorobenzene									<8
1,2,4-trichlorobenzene									<1
1,2-dibromo-3-chloropropane	<1	<5	<5	<5	<5	<25	<5	<5	<1
1,2-dibromoethane	<1	<1	<1	<1	<1	<5	<1	<1	<1
1,2-dichlorobenzene	<1	<1	<1	<1	<1	<5	<1	<1	<1
1,2-dichloroethane	<1	<1	<1	<1	<1	<5	<1	<1	<1
1,2-dichloropropane	<1	<1	<1	<1	<1	<5	<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	<5	<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	<50	<10	<10	<5
2-chloronaphthalene									<8
2-chlorophenol									<8
2-hexanone (mbk)	<5	<5	<5	<5	<5	<25	<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	<25	<5	<5	<5
4-nitroaniline									<8
4-nitrophenol									<8
5-nitro-o-toluidine									<8
7,12-dimethylbenz(a)anthracene									<8
Acenaphthene									<8
Acenaphthylene									<8
Acetone	<10	<10	<10	<10	<10	<50	<10	<10	<10
Acetonitrile									<10
Acetophenone									<8
Acrolein									<10
Acrylonitrile	<5	<5	<5	<5	<5	<25	<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 MW96-21

Constituents	3/12/2024	9/30/2024	3/24/2025
(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	<1	<1
1,1-dichloroethylene	<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	<1	<5	<5
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	<1	<1	<1
1,4-naphthoquinone	<8		
1,4-phenylenediamine	<8		
1-naphthylamine	<8		
2,2-dichloropropane	<1		
2,3,4,6-tetrachlorophenol	<8		
2,4,5-t	<.5		
2,4,5-tp (silvex)	<.5		
2,4,5-trichlorophenol	<8		
2,4,6-trichlorophenol	<8		
2,4-d	<2		
2,4-dichlorophenol	<8		
2,4-dimethylphenol	<8		
2,4-dinitrophenol	<8		
2,4-dinitrotoluene	<8		
2,6-dichlorophenol	<8		
2,6-dinitrotoluene	<8		
2-acetylaminofluorene	<8		
2-butanone (mek)	<5	<10	<10
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	<10	<10
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 MW96-21

Constituents	Units	3/14/2014	9/18/2014	3/17/2017	9/20/2017	3/8/2018	9/24/2018	12/20/2018	3/25/2019
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	7.1	30.7	8.8	13.1	12.7		13.6	11.7
Azobenzene	ug/L				<8		<8		
Barium, total	ug/L	238	441	196	285	267		245	267
Benzene	ug/L	<1	<1	<1	<1	<1	<1		<1
Benzo(a)anthracene	ug/L				<8		<8		
Benzo(a)pyrene	ug/L				<8		<8		
Benzo(b)fluoranthene	ug/L				<8		<8		
Benzo(g,h,i)perylene	ug/L				<8		<8		
Benzo(k)fluoranthene	ug/L				<8		<8		
Benzyl alcohol	ug/L				<8		<8		
Beryllium, total	ug/L	<4.0	<4.0	<4.0	<4.0	<4.0		<4.0	<4.0
Beta-bhc	ug/L				<.05		<.05		
Bis (2-chloroethoxy) methane	ug/L				<8		<8		
Bis(2-chloroethyl) ether	ug/L				<8		<8		
Bis(2-chloroisopropyl) ether	ug/L				<8		<8		
Bis(2-ethylhexyl) phthalate	ug/L				<6		<6		
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	2.5	<.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	<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	<8.0	<8.0	<8.0	<8.0	<8.0		<8.0	<8.0
Chrysene	ug/L				<8		<8		
Cis-1,2-dichloroethylene	ug/L	<1	<1	<1	<1	<1	<1		<1
Cis-1,3-dichloropropene	ug/L	<1	<1	<1	<1	<1	<1		<1
Cobalt, total	ug/L	<4.0	2.5	1.8	<.8	<.8		1.1	1.0
Copper, total	ug/L	<4.0	5.9	<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 MW96-21

Constituents	9/3/2019	3/23/2020	9/4/2020	3/9/2021	9/7/2021	3/28/2022	9/14/2022	3/20/2023	9/12/2023
Antimony, total	<2	<2	<2	<2	<2	<2	<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	16.7	27.9	21.7	17.0	29.3	80.6	13.3	45.4	12.7
Azobenzene									<.8
Barium, total	295	318	263	253	275	1990	248	421	224
Benzene	<1	<1	<1	<1	<1	<5	<1	<1	<1
Benzo(a)anthracene									<.8
Benzo(a)pyrene									<.8
Benzo(b)fluoranthene									<.8
Benzo(g,h,i)perylene									<.8
Benzo(k)fluoranthene									<.8
Benzyl alcohol									<.8
Beryllium, total	<4.0	<4.0	<4.0	<4.0	<4.0	6.2	<4.0	<4.0	<4.0
Beta-bhc									<.05
Bis (2-chloroethoxy) methane									<.8
Bis(2-chloroethyl) ether									<.8
Bis(2-chloroisopropyl) ether									<.8
Bis(2-ethylhexyl) phthalate									<.6
Bromochloromethane	<1	<1	<1	<1	<1	<5	<1	<1	<1
Bromodichloromethane	<1	<1	<1	<1	<1	<5	<1	<1	<1
Bromoform	<1	<1	<1	<1	<1	<5	<1	<1	<1
Bromomethane	<1	<1	<1	<1	<1	<5	<1	<1	<1
Butyl benzyl phthalate									<.8
Cadmium, total	<.8	<.8	<.8	<.8	<.8	4.4	<.8	<.8	<.8
Carbon disulfide	<1	<1	<1	<1	<1	<5	<1	<1	<1
Carbon tetrachloride	<1	<1	<1	<1	<1	<5	<1	<1	<1
Chlordane									<.1
Chlorobenzene	<1	<1	<1	<1	<1	<5	<1	<1	<1
Chlorobenzilate									<.8
Chloroethane	<1	<1	<1	<1	<1	<5	<1	<1	<1
Chloroform	<1	<1	<1	<1	<1	<5	<1	<1	<1
Chloromethane	<1	<1	<1	<1	<1	<5	<1	<1	<1
Chloroprene									<1
Chromium, total	<8.0	<8.0	<8.0	<8.0	<8.0	148.0	<8.0	10.2	<8.0
Chrysene									<.8
Cis-1,2-dichloroethylene	<1	<1	<1	<1	<1	<5	<1	<1	<1
Cis-1,3-dichloropropene	<1	<1	<1	<1	<1	<5	<1	<1	<1
Cobalt, total	2.5	.8	<.4	<.4	.4	79.4	2.5	4.3	.8
Copper, total	6.7	5.5	<4.0	4.2	<4.0	190.0	5.2	10.4	<4.0
Cyanide, total									<.005
Delta-bhc									<.05
Diallate									<.8
Dibenzo(a,h)anthracene									<.8
Dibenzofuran									<.8
Dibromochloromethane	<1	<1	<1	<1	<1	<5	<1	<1	<1
Dibromomethane	<1	<1	<1	<1	<1	<5	<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	<5	<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 MW96-21

Constituents	3/12/2024	9/30/2024	3/24/2025
Antimony, total		<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		27.0	21.2
Azobenzene	<8		
Barium, total		369	296
Benzene	<1	<1	<1
Benzo(a)anthracene	<8		
Benzo(a)pyrene	<8		
Benzo(b)fluoranthene	<8		
Benzo(g,h,i)perylene	<8		
Benzo(k)fluoranthene	<8		
Benzyl alcohol	<8		
Beryllium, total		<4.0	<4.0
Beta-bhc	<.05		
Bis (2-chloroethoxy) methane	<8		
Bis(2-chloroethyl) ether	<8		
Bis(2-chloroisopropyl) ether	<8		
Bis(2-ethylhexyl) phthalate	<6		
Bromochloromethane	<1	<1	<1
Bromodichloromethane	<1	<1	<1
Bromoform	<1	<1	<1
Bromomethane	<1	<1	<1
Butyl benzyl phthalate	<8		
Cadmium, total		<.8	<.8
Carbon disulfide	<1	<1	<1
Carbon tetrachloride	<1	<1	<1
Chlordane	<.1		
Chlorobenzene	<1	<1	<1
Chlorobenzilate	<8		
Chloroethane	<1	<1	<1
Chloroform	<1	<1	<1
Chloromethane	<1	<1	<1
Chloroprene	<1		
Chromium, total		9.5	<8.0
Chrysene	<8		
Cis-1,2-dichloroethylene	<1	<1	<1
Cis-1,3-dichloropropene	<1	<1	<1
Cobalt, total		4.0	.6
Copper, total		11.4	<4.0
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	<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 MW96-21

Constituents	Units	3/14/2014	9/18/2014	3/17/2017	9/20/2017	3/8/2018	9/24/2018	12/20/2018	3/25/2019
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	<4.0	8.4	<4.0	<4.0	<4.0		<4.0	<4.0
Mercury, total	ug/L				<.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	7.5	6.3	<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		
Parathion	ug/L				<.4		<.4		
P-dimethylaminoazobenzene	ug/L				<8		<8		
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	<4.0	<4.0	<4.0	<4.0	<4.0		<4.0	<4.0
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				<1.00		.11		
Tetrachloroethylene	ug/L	<1	<1	<1	<1	<1	<1		<1
Thallium, total	ug/L	<4	<4	<4	<4	<4		<4	<2
Thionazin	ug/L				<.4		<.4		
Tin, total	ug/L				<20				
Toluene	ug/L	<1	<1	<1	<1	<1	<1		<1
Total suspended solids	mg/L		542						
Toxaphene	ug/L				<.2		<.2		
Trans-1,2-dichloroethylene	ug/L	<1	<1	<1	<1	<1	<1		<1
Trans-1,3-dichloropropene	ug/L	<1	<1	<1	<1	<1	<1		<1
Trans-1,4-dichloro-2-butene	ug/L	<5	<5	<5	<5	<5	<5		<5
Trichloroethylene	ug/L	<1	<1	<1	<1	<1	<1		<1
Trichlorofluoromethane	ug/L	<1	<1	<1	<1	<1	<1		<1
Vanadium, total	ug/L	<20	<20	<20	<20	<20		<20	<20
Vinyl acetate	ug/L	<5	<5	<5	<5	<5	<5		<5
Vinyl chloride	ug/L	<1	<1	<1	<1	<1	<1		<1
Xylenes, total	ug/L	<2	<2	<2	<2	<2	<2		<2
Zinc, total	ug/L	<8.0	22.0	<8.0	<8.0	<8.0		31.0	20.6

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

Table 9

Analytical Data Summary for MW96-21

Constituents	9/3/2019	3/23/2020	9/4/2020	3/9/2021	9/7/2021	3/28/2022	9/14/2022	3/20/2023	9/12/2023
Hexachlorobutadiene									<8
Hexachlorocyclopentadiene									<8
Hexachloroethane									<8
Hexachloropropene									<8
Indeno(1,2,3-cd)pyrene									<8
Isobutanol									<1000
Isodrin									<8
Isophorone									<8
Isosafrole									<8
Kepone									<8
Lead, total	<4.0	<4.0	<4.0	<4.0	<4.0	171.0	<4.0	6.7	<4.0
Mercury, total									<.5
Methacrylonitrile									<1
Methapyrilene									<8
Methoxychlor									<.05
Methyl iodide	<1	<1	<1	<1	<1	<5	<1	<1	<2
Methyl methacrylate									<1
Methyl methanesulfonate									<8
Methyl parathion									<.4
Methylene chloride	<5	<5	<5	<5	<5	<25	<5	<5	<5
Naphthalene									<8
Nickel, total	6.7	<4.0	<4.0	<4.0	<4.0	195.0	<4.0	12.4	<4.0
Nitrobenzene									<8
N-nitrosodiethylamine									<8
N-nitrosodimethylamine									<8
N-nitrosodi-n-butylamine									<8
N-nitroso-di-n-propylamine									<8
N-nitrosodiphenylamine									<8
N-nitrosomethylethylamine									<8
N-nitrosopiperidine									<8
N-nitrosopyrrolidine									<8
O,o,o-triethyl phosphorothioate									<.4
O-toluidine									<8
Parathion									<.4
P-dimethylaminoazobenzene									<8
Pentachlorobenzene									<8
Pentachloronitrobenzene (pcnb)									<8
Pentachlorophenol									<8
Phenacetin									<8
Phenanthrene									<8
Phenol									<8
Phorate									<.4
Pronamide									<8
Propionitrile									<10
Pyrene									<8
Safrole									<8
Selenium, total	<4.0	<4.0	<4.0	<4.0	<4.0	13.7	<4.0	<4.0	<4.0
Silver, total	<4	<4	<4	<4	<4	<4	<4	<4	<4
Styrene	<1	<1	<1	<1	<1	<5	<1	<1	<1
Sulfide, total									<.10
Tetrachloroethylene	<1	<1	<1	<1	<1	<5	<1	<1	<1
Thallium, total	<2	<2	<2	<2	<2	2	<2	<2	<2
Thionazin									<.4
Tin, total									<20
Toluene	<1	<1	<1	<1	<1	<5	<1	<1	<1
Total suspended solids									<.2
Toxaphene									<1
Trans-1,2-dichloroethylene	<1	<1	<1	<1	<1	<5	<1	<1	<1
Trans-1,3-dichloropropene	<1	<1	<1	<1	<1	<5	<1	<1	<1
Trans-1,4-dichloro-2-butene	<5	<5	<5	<5	<5	<25	<5	<5	<5
Trichloroethylene	<1	<1	<1	<1	<1	<5	<1	<1	<1
Trichlorofluoromethane	<1	<1	<1	<1	<1	<5	<1	<1	<1
Vanadium, total	<20	<20	<20	<20	<20	216	<20	<20	<20
Vinyl acetate	<5	<5	<5	<5	<5	<25	<5	<5	<5
Vinyl chloride	<1	<1	<1	<1	<1	<5	<1	<1	<1
Xylenes, total	<2	<2	<2	<2	<2	<10	<2	<2	<2
Zinc, total	18.5	<20.0	<20.0	<20.0	<20.0	399.0	<20.0	26.2	<20.0

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

Table 9

Analytical Data Summary for MW96-21

Constituents	3/12/2024	9/30/2024	3/24/2025
Hexachlorobutadiene	<8		
Hexachlorocyclopentadiene	<8		
Hexachloroethane	<8		
Hexachloropropene	<8		
Indeno(1,2,3-cd)pyrene	<8		
Isobutanol	<1000		
Isodrin	<8		
Isophorone	<8		
Isosafrole	<8		
Kepone	<8		
Lead, total		6.2	<4.0
Mercury, total			
Methacrylonitrile	<1		
Methapyrilene	<8		
Methoxychlor	<.05		
Methyl iodide	<2	<1	<1
Methyl methacrylate	<1		
Methyl methanesulfonate	<8		
Methyl parathion	<.4		
Methylene chloride	<5	<5	<5
Naphthalene	<8		
Nickel, total		11.3	4.6
Nitrobenzene	<8		
N-nitrosodiethylamine	<8		
N-nitrosodimethylamine	<8		
N-nitrosodi-n-butylamine	<8		
N-nitroso-di-n-propylamine	<8		
N-nitrosodiphenylamine	<8		
N-nitrosomethylethylamine	<8		
N-nitrosopiperidine	<8		
N-nitrosopyrrolidine	<8		
O,o,o-triethyl phosphorothioate	<.4		
O-toluidine	<8		
Parathion	<.4		
P-dimethylaminoazobenzene	<8		
Pentachlorobenzene	<8		
Pentachloronitrobenzene (pcnb)	<8		
Pentachlorophenol	<8		
Phenacetin	<8		
Phenanthrene	<8		
Phenol	<8		
Phorate	<.4		
Pronamide	<8		
Propionitrile	<10		
Pyrene	<8		
Safrole	<8		
Selenium, total		<4.0	<4.0
Silver, total		<4	<4
Styrene	<1	<1	<1
Sulfide, total	<.15		
Tetrachloroethylene	<1	<1	<1
Thallium, total		<2	<2
Thionazin	<.4		
Tin, total			
Toluene	<1	<1	<1
Total suspended solids			
Toxaphene	<.2		
Trans-1,2-dichloroethylene	<1	<1	<1
Trans-1,3-dichloropropene	<1	<1	<1
Trans-1,4-dichloro-2-butene	<5	<5	<5
Trichloroethylene	<1	<1	<1
Trichlorofluoromethane	<1	<1	<1
Vanadium, total		<20	<20
Vinyl acetate	<5	<5	<5
Vinyl chloride	<1	<1	<1
Xylenes, total	<2	<2	<2
Zinc, total		34.1	<20.0

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

Table 9

Analytical Data Summary for MW96-21R

Constituents	Units	9/9/2025
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-dichloroethylene	ug/L	<1
1,2,3-trichloropropane	ug/L	<1
1,2-dibromo-3-chloropropane	ug/L	<5
1,2-dibromoethane	ug/L	<1
1,2-dichlorobenzene	ug/L	<1
1,2-dichloroethane	ug/L	<1
1,2-dichloropropane	ug/L	<1
1,4-dichlorobenzene	ug/L	<1
2-butanone (mek)	ug/L	<10
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	<1
Arsenic, total	ug/L	12.4
Barium, total	ug/L	369
Benzene	ug/L	<1
Beryllium, total	ug/L	<.5
Bromochloromethane	ug/L	<1
Bromodichloromethane	ug/L	<1
Bromoform	ug/L	<1
Bromomethane	ug/L	<1
Cadmium, total	ug/L	<.2
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	2.4
Cis-1,2-dichloroethylene	ug/L	<1
Cis-1,3-dichloropropene	ug/L	<1
Cobalt, total	ug/L	.8
Copper, total	ug/L	6.5
Dibromochloromethane	ug/L	<1
Dibromomethane	ug/L	<1
Ethylbenzene	ug/L	<1
Lead, total	ug/L	<1
Methyl iodide	ug/L	<1
Methylene chloride	ug/L	<5
Nickel, total	ug/L	<5
Selenium, total	ug/L	<2
Silver, total	ug/L	<5
Styrene	ug/L	<1
Tetrachloroethylene	ug/L	<1
Thallium, total	ug/L	<.5
Toluene	ug/L	<1
Trans-1,2-dichloroethylene	ug/L	<1
Trans-1,3-dichloropropene	ug/L	<1
Trans-1,4-dichloro-2-butene	ug/L	<5
Trichloroethylene	ug/L	<1
Trichlorofluoromethane	ug/L	<1
Vanadium, total	ug/L	<2
Vinyl acetate	ug/L	<5
Vinyl chloride	ug/L	<1
Xylenes, total	ug/L	<2
Zinc, total	ug/L	11.7

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

Table 9

Analytical Data Summary for MW96-23

Constituents	Units	3/13/2014	9/18/2014	3/17/2015	9/10/2015	11/9/2015	3/16/2016	9/8/2016	3/17/2017	9/19/2017
1,1,1,2-tetrachloroethane	ug/L	<1	<1	<1	<1		<1	<1	<1	<1
1,1,1-trichloroethane	ug/L	<1	<1	<1	<1		<1	<1	<1	<1
1,1,2,2-tetrachloroethane	ug/L	<1	<1	<1	<1		<1	<1	<1	<1
1,1,2-trichloroethane	ug/L	<1	<1	<1	<1		<1	<1	<1	<1
1,1-dichloroethane	ug/L	<1	<1	<1	<1		<1	<1	<1	<1
1,1-dichloroethylene	ug/L	<1	<1	<1	<1		<1	<1	<1	<1
1,2,3-trichloropropane	ug/L	<1	<1	<1	<1		<1	<1	<1	<1
1,2-dibromo-3-chloropropane	ug/L	<1	<1	<1	<1		<1	<1	<1	<1
1,2-dibromoethane	ug/L	<1	<1	<1	<1		<1	<1	<1	<1
1,2-dichlorobenzene	ug/L	<1	<1	<1	<1		<1	<1	<1	<1
1,2-dichloroethane	ug/L	<1	<1	<1	<1		<1	<1	<1	<1
1,2-dichloropropane	ug/L	<1	<1	<1	<1		<1	<1	<1	<1
1,4-dichlorobenzene	ug/L	<1	<1	<1	<1		<1	<1	<1	<1
2-butanone (mek)	ug/L	<5	<5	<5	<5		<5	<5	<5	<5
2-hexanone (mbk)	ug/L	<5	<5	<5	<5		<5	<5	<5	<5
4-methyl-2-pentanone (mibk)	ug/L	<5	<5	<5	<5		<5	<5	<5	<5
Acetone	ug/L	<10	<10	<10	<10		<10	<10	<10	<10
Acrylonitrile	ug/L	<5	<5	<5	<5		<5	<5	<5	<5
Antimony, total	ug/L	<2.0	<2.0	<2.0	<2.0		<2.0	<2.0	<2.0	<2.0
Arsenic, total	ug/L	20.2	38.5	33.6	29.3	29.0	30.0	24.6	30.4	19.3
Barium, total	ug/L	637	784	697	668		656	639	642	602
Benzene	ug/L	<1	<1	<1	<1		<1	<1	<1	<1
Beryllium, total	ug/L	<4.0	<4.0	<4.0	<4.0		<4.0	<4.0	<4.0	<4.0
Bis(2-ethylhexyl) phthalate	ug/L	<10	<10	<10	<10		<10	<10		
Bromochloromethane	ug/L	<1	<1	<1	<1		<1	<1	<1	<1
Bromodichloromethane	ug/L	<1	<1	<1	<1		<1	<1	<1	<1
Bromoform	ug/L	<1	<1	<1	<1		<1	<1	<1	<1
Bromomethane	ug/L	<1	<1	<1	<1		<1	<1	<1	<1
Cadmium, total	ug/L	<.8	<.8	<.8	<.8		.8	<.8	<.8	<.8
Carbon disulfide	ug/L	<1	<1	<1	<1		<1	<1	<1	<1
Carbon tetrachloride	ug/L	<1	<1	<1	<1		<1	<1	<1	<1
Chlorobenzene	ug/L	<1	<1	<1	<1		<1	<1	<1	<1
Chloroethane	ug/L	<1	<1	<1	<1		<1	<1	<1	<1
Chloroform	ug/L	<1	<1	<1	<1		<1	<1	<1	<1
Chloromethane	ug/L	<1	<1	<1	<1		<1	<1	<1	<1
Chromium, total	ug/L	<8.0	<8.0	<8.0	<8.0		<8.0	<8.0	<8.0	<8.0
Cis-1,2-dichloroethylene	ug/L	<1	<1	<1	<1		<1	<1	<1	<1
Cis-1,3-dichloropropene	ug/L	<1	<1	<1	<1		<1	<1	<1	<1
Cobalt, total	ug/L	<4.0	3.0	<.8	<.8		<.8	<.8	<.8	<.8
Copper, total	ug/L	<4.0	8.8	<4.0	<4.0		<4.0	<4.0	<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	<4.0	4.6	<4.0	<4.0		<4.0	<4.0	<4.0	<4.0
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	9.4	<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
Styrene	ug/L	<1	<1	<1	<1		<1	<1	<1	<1
Tetrachloroethylene	ug/L	<1	<1	<1	<1		<1	<1	<1	<1
Thallium, total	ug/L	<4.0	<4.0	<4.0	<4.0		<4.0	<4.0	<4.0	<4.0
Toluene	ug/L	<1	<1	<1	<1		<1	<1	<1	<1
Total suspended solids	mg/L		266	33						
Trans-1,2-dichloroethylene	ug/L	<1	<1	<1	<1		<1	<1	<1	<1
Trans-1,3-dichloropropene	ug/L	<1	<1	<1	<1		<1	<1	<1	<1
Trans-1,4-dichloro-2-butene	ug/L	<5	<5	<5	<5		<5	<5	<5	<5
Trichloroethylene	ug/L	<1	<1	<1	<1		<1	<1	<1	<1
Trichlorofluoromethane	ug/L	<1	<1	<1	<1		<1	<1	<1	<1
Vanadium, total	ug/L	<20.0	<20.0	<20.0	<20.0		<20.0	<20.0	<20.0	<20.0
Vinyl acetate	ug/L	<5	<5	<5	<5		<5	<5	<5	<5
Vinyl chloride	ug/L	<1	<1	<1	<1		<1	<1	<1	<1
Xylenes, total	ug/L	<2	<2	<2	<2		<2	<2	<2	<2
Zinc, total	ug/L	12.7	27.2	<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 MW96-23

Constituents	3/8/2018	9/24/2018	3/25/2019	9/3/2019	3/23/2020	9/4/2020	3/9/2021	9/7/2021	3/28/2022	9/14/2022
1,1,1,2-tetrachloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-trichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-trichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,3-trichloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dibromo-3-chloropropane	<1	<1	<1	<1	<5	<5	<5	<5	<5	<5
1,2-dibromoethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-butanone (mek)	<5	<5	<5	<5	<5	<5	<5	<5	<10	<10
2-hexanone (mbk)	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
4-methyl-2-pentanone (mibk)	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Acetone	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Acrylonitrile	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Antimony, total	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.3	<2.0
Arsenic, total	24.0	15.4	34.5	35.8	31.4	30.5	35.8	25.3	32.2	30.1
Barium, total	616	522	722	726	700	631	696	582	735	653
Benzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Beryllium, total	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Bis(2-ethylhexyl) phthalate										
Bromochloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromodichloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromoform	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromomethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cadmium, total	<8	<8	<8	<8	<8	<8	<8	<8	1.0	<8
Carbon disulfide	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon tetrachloride	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chromium, total	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	13.8	<8.0
Cis-1,2-dichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cis-1,3-dichloropropene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cobalt, total	<8	<8	<8	<8	<8	<4	<4	<4	4.8	3.0
Copper, total	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	6.1	<4.0	15.3	<4.0
Dibromochloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromomethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Lead, total	5.3	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	7.4	<4.0
Methyl iodide	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene chloride	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Nickel, total	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	15.0	<4.0
Selenium, total	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Silver, total	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Styrene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Thallium, total	<4.0	<4.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Toluene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total suspended solids										
Trans-1,2-dichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,3-dichloropropene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,4-dichloro-2-butene	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Trichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vanadium, total	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	21.2	<20.0
Vinyl acetate	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Vinyl chloride	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Zinc, total	<8.0	<8.0	<8.0	<8.0	<20.0	<20.0	<20.0	<20.0	42.8	<20.0

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

Table 9

Analytical Data Summary for MW96-23

Constituents	3/20/2023	9/12/2023	3/12/2024	9/30/2024	3/24/2025	9/9/2025
1,1,1,2-tetrachloroethane	<1	<1	<1	<1	<1	<1
1,1,1-trichloroethane	<1	<1	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	<1	<1	<1	<1	<1	<1
1,1,2-trichloroethane	<1	<1	<1	<1	<1	<1
1,1-dichloroethane	<1	<1	<1	<1	<1	<1
1,1-dichloroethylene	<1	<1	<1	<1	<1	<1
1,2,3-trichloropropane	<1	<1	<1	<1	<1	<1
1,2-dibromo-3-chloropropane	<5	<5	<5	<5	<5	<5
1,2-dibromoethane	<1	<1	<1	<1	<1	<1
1,2-dichlorobenzene	<1	<1	<1	<1	<1	<1
1,2-dichloroethane	<1	<1	<1	<1	<1	<1
1,2-dichloropropane	<1	<1	<1	<1	<1	<1
1,4-dichlorobenzene	<1	<1	<1	<1	<1	<1
2-butanone (mek)	<10	<10	<10	<10	<10	<10
2-hexanone (mbk)	<5	<5	<5	<5	<5	<5
4-methyl-2-pentanone (mibk)	<5	<5	<5	<5	<5	<5
Acetone	<10	<10	<10	<10	<10	<10
Acrylonitrile	<5	<5	<5	<5	<5	<5
Antimony, total	<2.0	<2.0	<2.0	<2.0	<2.0	<1.0
Arsenic, total	28.1	32.5	33.0	39.2	37.7	39.2
Barium, total	624	681	644	632	603	704
Benzene	<1	<1	<1	<1	<1	<1
Beryllium, total	<4.0	<4.0	<4.0	<4.0	<4.0	<.5
Bis(2-ethylhexyl) phthalate						
Bromochloromethane	<1	<1	<1	<1	<1	<1
Bromodichloromethane	<1	<1	<1	<1	<1	<1
Bromoform	<1	<1	<1	<1	<1	<1
Bromomethane	<1	<1	<1	<1	<1	<1
Cadmium, total	<.8	<.8	<.8	<.8	<.8	<.2
Carbon disulfide	<1	<1	<1	<1	<1	<1
Carbon tetrachloride	<1	<1	<1	<1	<1	<1
Chlorobenzene	<1	<1	<1	<1	<1	<1
Chloroethane	<1	<1	<1	<1	<1	<1
Chloroform	<1	<1	<1	<1	<1	<1
Chloromethane	<1	<1	<1	<1	<1	<1
Chromium, total	<8.0	<8.0	<8.0	<8.0	<8.0	1.0
Cis-1,2-dichloroethylene	<1	<1	<1	<1	<1	<1
Cis-1,3-dichloropropene	<1	<1	<1	<1	<1	<1
Cobalt, total	<.4	<.4	<.4	<.4	<.4	<.5
Copper, total	<4.0	<4.0	<4.0	<4.0	<4.0	<5.0
Dibromochloromethane	<1	<1	<1	<1	<1	<1
Dibromomethane	<1	<1	<1	<1	<1	<1
Ethylbenzene	<1	<1	<1	<1	<1	<1
Lead, total	<4.0	<4.0	<4.0	<4.0	<4.0	<1.0
Methyl iodide	<1	<1	<1	<1	<1	<1
Methylene chloride	<5	<5	<5	<5	<5	<5
Nickel, total	<4.0	<4.0	<4.0	<4.0	<4.0	<5.0
Selenium, total	<4	<4	<4	<4	<4	<2
Silver, total	<4	<4	<4	<4	<4	<5
Styrene	<1	<1	<1	<1	<1	<1
Tetrachloroethylene	<1	<1	<1	<1	<1	<1
Thallium, total	<2.0	<2.0	<2.0	<2.0	<2.0	<.5
Toluene	<1	<1	<1	<1	<1	<1
Total suspended solids						
Trans-1,2-dichloroethylene	<1	<1	<1	<1	<1	<1
Trans-1,3-dichloropropene	<1	<1	<1	<1	<1	<1
Trans-1,4-dichloro-2-butene	<5	<5	<5	<5	<5	<5
Trichloroethylene	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	<1	<1	<1	<1	<1	<1
Vanadium, total	<20.0	<20.0	<20.0	<20.0	<20.0	<2.0
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	10.2

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

Table 9

Analytical Data Summary for MW96-24

Constituents	Units	3/13/2014	9/18/2014	3/17/2015	9/11/2015	3/16/2016	9/8/2016	3/17/2017	9/20/2017	3/8/2018
1,1,1,2-tetrachloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-trichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-trichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,3-trichloropropane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dibromo-3-chloropropane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dibromoethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichlorobenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloropropane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-dichlorobenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-butanone (mek)	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
2-hexanone (mbk)	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
4-methyl-2-pentanone (mibk)	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
Acetone	ug/L	<10	<10	<10	<10	<10	<10	<10	<10	<10
Acrylonitrile	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
Antimony, total	ug/L	<2	<2	<2	<2	<2	<2	<2	<2	<2
Arsenic, total	ug/L	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Barium, total	ug/L	497	863	566	546	605	540	443	612	613
Benzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Beryllium, total	ug/L	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Bromochloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromodichloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromoform	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromomethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cadmium, total	ug/L	<.8	<.8	<.8	<.8	1.3	<.8	<.8	<.8	<.8
Carbon disulfide	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon tetrachloride	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chromium, total	ug/L	<8	<8	<8	<8	<8	<8	<8	<8	<8
Cis-1,2-dichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cis-1,3-dichloropropene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cobalt, total	ug/L	<4.0	.8	<.8	<.8	<.8	<.8	<.8	<.8	<.8
Copper, total	ug/L	<4.0	5.4	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Dibromochloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromomethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Lead, total	ug/L	<4	<4	<4	<4	<4	<4	<4	<4	<4
Methyl iodide	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene chloride	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
Nickel, total	ug/L	<4.0	5.7	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Selenium, total	ug/L	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Silver, total	ug/L	<4	<4	<4	<4	<4	<4	<4	<4	<4
Styrene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Thallium, total	ug/L	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Toluene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total suspended solids	mg/L		250	44						
Trans-1,2-dichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,3-dichloropropene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,4-dichloro-2-butene	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
Trichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vanadium, total	ug/L	<20	<20	<20	<20	<20	<20	<20	<20	<20
Vinyl acetate	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
Vinyl chloride	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	ug/L	<2	<2	<2	<2	<2	<2	<2	<2	<2
Zinc, total	ug/L	<8.0	14.1	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0

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

Table 9

Analytical Data Summary for MW96-24

Constituents	9/24/2018	3/25/2019	9/3/2019	3/23/2020	9/4/2020	3/9/2021	9/7/2021	12/3/2021	3/28/2022	9/14/2022
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-dichloroethylene	<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	<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
1,4-dichlorobenzene	<1	<1	<1	<1	<1	<1	<1		<1	<1
2-butanone (mek)	<5	<5	<5	<5	<5	<5	<5		<10	<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	<4.0	<4.0	<4.0	<4.0	4.0	<4.0	6.7		<4.0	<4.0
Barium, total	488	575	606	503	537	499	1050	434	534	561
Benzene	<1	<1	<1	<1	<1	<1	<1		<1	<1
Beryllium, total	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0		<4.0	<4.0
Bromochloromethane	<1	<1	<1	<1	<1	<1	<1		<1	<1
Bromodichloromethane	<1	<1	<1	<1	<1	<1	<1		<1	<1
Bromoform	<1	<1	<1	<1	<1	<1	<1		<1	<1
Bromomethane	<1	<1	<1	<1	<1	<1	<1		<1	<1
Cadmium, total	<.8	<.8	<.8	<.8	<.8	<.8	<.8		<.8	<.8
Carbon disulfide	<1	<1	<1	<1	<1	<1	<1		<1	<1
Carbon tetrachloride	<1	<1	<1	<1	<1	<1	<1		<1	<1
Chlorobenzene	<1	<1	<1	<1	<1	<1	<1		<1	<1
Chloroethane	<1	<1	<1	<1	<1	<1	<1		<1	<1
Chloroform	<1	<1	<1	<1	<1	<1	<1		<1	<1
Chloromethane	<1	<1	<1	<1	<1	<1	<1		<1	<1
Chromium, total	<8	<8	<8	<8	<8	<8	<8		<8	<8
Cis-1,2-dichloroethylene	<1	<1	<1	<1	<1	<1	<1		<1	<1
Cis-1,3-dichloropropene	<1	<1	<1	<1	<1	<1	<1		<1	<1
Cobalt, total	<.8	<.8	<.8	<.8	<.4	<.4	<.4		.6	2.7
Copper, total	<4.0	<4.0	<4.0	<4.0	<4.0	6.3	<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	<4.0	5.3	<4.0	<4.0	<4.0	<4.0	<4.0		<4.0	<4.0
Selenium, total	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	5.5		<4.0	<4.0
Silver, total	<4	<4	<4	<4	<4	<4	<4		<4	<4
Styrene	<1	<1	<1	<1	<1	<1	<1		<1	<1
Tetrachloroethylene	<1	<1	<1	<1	<1	<1	<1		<1	<1
Thallium, total	<4.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0		<2.0	<2.0
Toluene	<1	<1	<1	<1	<1	<1	<1		<1	<1
Total suspended solids										
Trans-1,2-dichloroethylene	<1	<1	<1	<1	<1	<1	<1		<1	<1
Trans-1,3-dichloropropene	<1	<1	<1	<1	<1	<1	<1		<1	<1
Trans-1,4-dichloro-2-butene	<5	<5	<5	<5	<5	<5	<5		<5	<5
Trichloroethylene	<1	<1	<1	<1	<1	<1	<1		<1	<1
Trichlorofluoromethane	<1	<1	<1	<1	<1	<1	<1		<1	<1
Vanadium, total	<20	<20	<20	<20	<20	<20	<20		<20	<20
Vinyl acetate	<5	<5	<5	<5	<5	<5	<5		<5	<5
Vinyl chloride	<1	<1	<1	<1	<1	<1	<1		<1	<1
Xylenes, total	<2	<2	<2	<2	<2	<2	<2		<2	<2
Zinc, total	<8.0	<8.0	<8.0	<20.0	<20.0	<20.0	<20.0		<20.0	<20.0

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

Table 9

Analytical Data Summary for MW96-24

Constituents	3/20/2023	9/12/2023	3/12/2024	9/30/2024	3/24/2025	9/9/2025
1,1,1,2-tetrachloroethane	<1	<1	<1	<1	<1	<1
1,1,1-trichloroethane	<1	<1	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	<1	<1	<1	<1	<1	<1
1,1,2-trichloroethane	<1	<1	<1	<1	<1	<1
1,1-dichloroethane	<1	<1	<1	<1	<1	<1
1,1-dichloroethylene	<1	<1	<1	<1	<1	<1
1,2,3-trichloropropane	<1	<1	<1	<1	<1	<1
1,2-dibromo-3-chloropropane	<5	<5	<5	<5	<5	<5
1,2-dibromoethane	<1	<1	<1	<1	<1	<1
1,2-dichlorobenzene	<1	<1	<1	<1	<1	<1
1,2-dichloroethane	<1	<1	<1	<1	<1	<1
1,2-dichloropropane	<1	<1	<1	<1	<1	<1
1,4-dichlorobenzene	<1	<1	<1	<1	<1	<1
2-butanone (mek)	<10	<10	<10	<10	<10	<10
2-hexanone (mbk)	<5	<5	<5	<5	<5	<5
4-methyl-2-pentanone (mibk)	<5	<5	<5	<5	<5	<5
Acetone	<10	<10	<10	<10	<10	<10
Acrylonitrile	<5	<5	<5	<5	<5	<5
Antimony, total	<2	<2	<2	<2	<2	<1
Arsenic, total	<4.0	<4.0	<4.0	<4.0	<4.0	<2.0
Barium, total	618	576	541	559	544	559
Benzene	<1	<1	<1	<1	<1	<1
Beryllium, total	<4.0	<4.0	<4.0	<4.0	<4.0	<.5
Bromochloromethane	<1	<1	<1	<1	<1	<1
Bromodichloromethane	<1	<1	<1	<1	<1	<1
Bromoform	<1	<1	<1	<1	<1	<1
Bromomethane	<1	<1	<1	<1	<1	<1
Cadmium, total	<.8	<.8	<.8	<.8	<.8	.2
Carbon disulfide	<1	<1	<1	<1	<1	<1
Carbon tetrachloride	<1	<1	<1	<1	<1	<1
Chlorobenzene	<1	<1	<1	<1	<1	<1
Chloroethane	<1	<1	<1	<1	<1	<1
Chloroform	<1	<1	<1	<1	<1	<1
Chloromethane	<1	<1	<1	<1	<1	<1
Chromium, total	<8	<8	<8	<8	<8	<1
Cis-1,2-dichloroethylene	<1	<1	<1	<1	<1	<1
Cis-1,3-dichloropropene	<1	<1	<1	<1	<1	<1
Cobalt, total	<.4	<.4	<.4	<.4	<.4	.6
Copper, total	<4.0	<4.0	<4.0	<4.0	<4.0	<5.0
Dibromochloromethane	<1	<1	<1	<1	<1	<1
Dibromomethane	<1	<1	<1	<1	<1	<1
Ethylbenzene	<1	<1	<1	<1	<1	<1
Lead, total	<4	<4	<4	<4	<4	<1
Methyl iodide	<1	<1	<1	<1	<1	<1
Methylene chloride	<5	<5	<5	<5	<5	<5
Nickel, total	<4.0	<4.0	<4.0	<4.0	<4.0	<5.0
Selenium, total	<4.0	<4.0	<4.0	<4.0	<4.0	<2.0
Silver, total	<4	<4	<4	<4	<4	<5
Styrene	<1	<1	<1	<1	<1	<1
Tetrachloroethylene	<1	<1	<1	<1	<1	<1
Thallium, total	<2.0	<2.0	<2.0	<2.0	<2.0	<.5
Toluene	<1	<1	<1	<1	<1	<1
Total suspended solids						
Trans-1,2-dichloroethylene	<1	<1	<1	<1	<1	<1
Trans-1,3-dichloropropene	<1	<1	<1	<1	<1	<1
Trans-1,4-dichloro-2-butene	<5	<5	<5	<5	<5	<5
Trichloroethylene	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	<1	<1	<1	<1	<1	<1
Vanadium, total	<20	<20	<20	<20	<20	<2
Vinyl acetate	<5	<5	<5	<5	<5	<5
Vinyl chloride	<1	<1	<1	<1	<1	<1
Xylenes, total	<2	<2	<2	<2	<2	<2
Zinc, total	<20.0	<20.0	<20.0	<20.0	<20.0	10.7

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

Table 9

Analytical Data Summary for MW98-25

Constituents	Units	3/13/2014	9/18/2014	3/17/2015	9/11/2015	3/16/2016	9/8/2016	3/18/2017	9/19/2017	3/8/2018
(3,4)-methylphenol	ug/L							<8		
1,1,1,2-tetrachloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-trichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-trichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethane	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-dichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloropropene	ug/L							<1		
1,2,3-trichloropropane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4,5-tetrachlorobenzene	ug/L							<8		
1,2,4-trichlorobenzene	ug/L							<1		
1,2-dibromo-3-chloropropane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dibromoethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichlorobenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloropropane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dinitrobenzene	ug/L							<8		
1,3,5-trinitrobenzene	ug/L							<8		
1,3-dichlorobenzene	ug/L							<1		
1,3-dichloropropane	ug/L							<1		
1,3-dinitrobenzene	ug/L							<8		
1,4-dichlorobenzene	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	2.1	2.0	1.7	<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	<5	<5	<5	<5	<5	<5	<5	<5	<5
2-chloronaphthalene	ug/L							<8		
2-chlorophenol	ug/L							<8		
2-hexanone (mbk)	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
2-methylnaphthalene	ug/L							<8		
2-methylphenol	ug/L							<8		
2-naphthylamine	ug/L							<8		
2-nitroaniline	ug/L							<8		
2-nitrophenol	ug/L							<8		
3,3'-dichlorobenzidine	ug/L							<8		
3,3'-dimethylbenzidine	ug/L							<8		
3-methylcholanthrene	ug/L							<8		
3-nitroaniline	ug/L							<8		
4,4'-ddd	ug/L							<.05		
4,4'-dde	ug/L							<.05		
4,4'-ddt	ug/L							<.05		
4,6-dinitro-2-methylphenol	ug/L							<8		
4-aminobiphenyl	ug/L							<8		
4-bromophenyl phenyl ether	ug/L							<8		
4-chloro-3-methylphenol	ug/L							<8		
4-chloroaniline	ug/L							<8		
4-chlorophenyl phenyl ether	ug/L							<8		
4-methyl-2-pentanone (mibk)	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
4-nitroaniline	ug/L							<8		
4-nitrophenol	ug/L							<8		
5-nitro-o-toluidine	ug/L							<8		
7,12-dimethylbenz(a)anthracene	ug/L							<8		
Acenaphthene	ug/L							<8		
Acenaphthylene	ug/L							<8		
Acetone	ug/L	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	46.5
Acetonitrile	ug/L							<10		
Acetophenone	ug/L							<8		
Acrolein	ug/L							<10		
Acrylonitrile	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
Aldrin	ug/L							<.05		
Allyl chloride	ug/L							<1		
Alpha-bhc	ug/L							<.05		
Anthracene	ug/L							<8		

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

Table 9

Analytical Data Summary for MW98-25

Constituents	9/24/2018	3/25/2019	9/3/2019	3/23/2020	9/4/2020	3/9/2021	9/7/2021	3/28/2022	9/14/2022
(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	<1.0	<1.0	1.1	1.8	2.3	1.5	<1.0
1,1-dichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloropropene									<1
1,2,3-trichloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4,5-tetrachlorobenzene									<8
1,2,4-trichlorobenzene									<1
1,2-dibromo-3-chloropropane	<1	<1	<1	<5	<5	<5	<5	<5	<1
1,2-dibromoethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dinitrobenzene									<8
1,3,5-trinitrobenzene									<8
1,3-dichlorobenzene									<1
1,3-dichloropropane									<1
1,3-dinitrobenzene									<8
1,4-dichlorobenzene	2.9	<1.0	<1.0	<1.0	1.3	1.1	2.0	1.2	<1.0
1,4-naphthoquinone									<8
1,4-phenylenediamine									<8
1-naphthylamine									<8
2,2-dichloropropane									<1
2,3,4,6-tetrachlorophenol									<8
2,4,5-t									<5
2,4,5-tp (silvex)									<5
2,4,5-trichlorophenol									<8
2,4,6-trichlorophenol									<8
2,4-d									<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	<5
2-chloronaphthalene									<8
2-chlorophenol									<8
2-hexanone (mbk)	<5	<5	<5	<5	<5	<5	<5	<5	<5
2-methylnaphthalene									<8
2-methylphenol									<8
2-naphthylamine									<8
2-nitroaniline									<8
2-nitrophenol									<8
3,3'-dichlorobenzidine									<8
3,3'-dimethylbenzidine									<8
3-methylcholanthrene									<8
3-nitroaniline									<8
4,4'-ddd									<.05
4,4'-dde									<.05
4,4'-ddt									<.05
4,6-dinitro-2-methylphenol									<8
4-aminobiphenyl									<8
4-bromophenyl phenyl ether									<8
4-chloro-3-methylphenol									<8
4-chloroaniline									<8
4-chlorophenyl phenyl ether									<8
4-methyl-2-pentanone (mibk)	<5	<5	<5	<5	<5	<5	<5	<5	<5
4-nitroaniline									<8
4-nitrophenol									<8
5-nitro-o-toluidine									<8
7,12-dimethylbenz(a)anthracene									<8
Acenaphthene									<8
Acenaphthylene									<8
Acetone	<10.0	<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 MW98-25

Constituents	3/20/2023	9/12/2023	3/12/2024	9/30/2024	3/24/2025	9/9/2025
(3,4)-methylphenol						
1,1,1,2-tetrachloroethane	<1	<1	<1	<1	<1	<1
1,1,1-trichloroethane	<1	<1	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	<1	<1	<1	<1	<1	<1
1,1,2-trichloroethane	<1	<1	<1	<1	<1	<1
1,1-dichloroethane	1.7	1.6	1.1	1.2	1.0	1.0
1,1-dichloroethylene	<1	<1	<1	<1	<1	<1
1,1-dichloropropene						
1,2,3-trichloropropane	<1	<1	<1	<1	<1	<1
1,2,4,5-tetrachlorobenzene						
1,2,4-trichlorobenzene						
1,2-dibromo-3-chloropropane	<5	<5	<5	<5	<5	<5
1,2-dibromoethane	<1	<1	<1	<1	<1	<1
1,2-dichlorobenzene	<1	<1	<1	<1	<1	<1
1,2-dichloroethane	<1	<1	<1	<1	<1	<1
1,2-dichloropropane	<1	<1	<1	<1	<1	<1
1,2-dinitrobenzene						
1,3,5-trinitrobenzene						
1,3-dichlorobenzene						
1,3-dichloropropane						
1,3-dinitrobenzene						
1,4-dichlorobenzene	1.2	2.4	1.6	1.8	1.4	2.7
1,4-naphthoquinone						
1,4-phenylenediamine						
1-naphthylamine						
2,2-dichloropropane						
2,3,4,6-tetrachlorophenol						
2,4,5-t						
2,4,5-tp (silvex)						
2,4,5-trichlorophenol						
2,4,6-trichlorophenol						
2,4-d						
2,4-dichlorophenol						
2,4-dimethylphenol						
2,4-dinitrophenol						
2,4-dinitrotoluene						
2,6-dichlorophenol						
2,6-dinitrotoluene						
2-acetylaminofluorene						
2-butanone (mek)	<10	<10	<10	<10	<10	<10
2-chloronaphthalene						
2-chlorophenol						
2-hexanone (mbk)	<5	<5	<5	<5	<5	<5
2-methylnaphthalene						
2-methylphenol						
2-naphthylamine						
2-nitroaniline						
2-nitrophenol						
3,3'-dichlorobenzidine						
3,3'-dimethylbenzidine						
3-methylcholanthrene						
3-nitroaniline						
4,4'-ddd						
4,4'-dde						
4,4'-ddt						
4,6-dinitro-2-methylphenol						
4-aminobiphenyl						
4-bromophenyl phenyl ether						
4-chloro-3-methylphenol						
4-chloroaniline						
4-chlorophenyl phenyl ether						
4-methyl-2-pentanone (mibk)	<5	<5	<5	<5	<5	<5
4-nitroaniline						
4-nitrophenol						
5-nitro-o-toluidine						
7,12-dimethylbenz(a)anthracene						
Acenaphthene						
Acenaphthylene						
Acetone	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Acetonitrile						
Acetophenone						
Acrolein						
Acrylonitrile	<5	<5	<5	<5	<5	<5
Aldrin						
Allyl chloride						
Alpha-bhc						
Anthracene						

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

Table 9

Analytical Data Summary for MW98-25

Constituents	Units	3/13/2014	9/18/2014	3/17/2015	9/11/2015	3/16/2016	9/8/2016	3/18/2017	9/19/2017	3/8/2018
Antimony, total	ug/L	<2	<2	<2	<2	<2	<2	<2	<2	<2
Arochlor 1016	ug/L							<.1		
Arochlor 1221	ug/L							<.2		
Arochlor 1232	ug/L							<.2		
Arochlor 1242	ug/L							<.2		
Arochlor 1248	ug/L							<.2		
Arochlor 1254	ug/L							<.1		
Arochlor 1260	ug/L							<.1		
Arsenic, total	ug/L	<4.0	9.6	18.9	8.7	8.7	<4.0	4.0	4.3	6.8
Azobenzene	ug/L							<8		
Barium, total	ug/L	82.6	98.8	141.0	89.3	105.0	100.0	53.3	61.5	58.9
Benzene	ug/L	1.0	5.6	<1.0	1.3	<1.0	1.4	<1.0	<1.0	1.9
Benzo(a)anthracene	ug/L							<8		
Benzo(a)pyrene	ug/L							<8		
Benzo(b)fluoranthene	ug/L							<8		
Benzo(g,h,i)perylene	ug/L							<8		
Benzo(k)fluoranthene	ug/L							<8		
Benzyl alcohol	ug/L							<8		
Beryllium, total	ug/L	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Beta-bhc	ug/L	.07	<.05	<.05	<.05	<.05	<.05	<.05	<.05	
Bis (2-chloroethoxy) methane	ug/L							<8		
Bis(2-chloroethyl) ether	ug/L							<8		
Bis(2-chloroisopropyl) ether	ug/L							<8		
Bis(2-ethylhexyl) phthalate	ug/L	<10	<10	<10	<10	<10	<10	<8	6	
Bromochloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromodichloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromoform	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromomethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Butyl benzyl phthalate	ug/L							<8		
Cadmium, total	ug/L	<.8	.9	<.8	<.8	<.8	<.8	<.8	<.8	<.8
Carbon disulfide	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon tetrachloride	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlordane	ug/L							<.1		
Chlorobenzene	ug/L	<1.0	1.3	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chlorobenzilate	ug/L							<8		
Chloroethane	ug/L	2.0	<1.0	<1.0	<1.0	1.9	1.0	<1.0	<1.0	1.1
Chloroform	ug/L	<1	<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	<1.0
Chloroprene	ug/L							<1		
Chromium, total	ug/L	<8.0	10.4	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0
Chrysene	ug/L							<8		
Cis-1,2-dichloroethylene	ug/L	4.8	4.5	5.1	1.4	5.1	2.9	2.1	1.3	2.5
Cis-1,3-dichloropropene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cobalt, total	ug/L	14.5	19.0	5.4	13.0	4.7	29.1	14.6	6.2	10.3
Copper, total	ug/L	<4.0	<4.0	<4.0	<4.0	<4.0	5.0	<4.0	<4.0	<4.0
Cyanide, total	mg/L							<.005		
Delta-bhc	ug/L							<.05		
Diallate	ug/L							<8		
Dibenzo(a,h)anthracene	ug/L							<8		
Dibenzofuran	ug/L							<8		
Dibromochloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromomethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dichlorodifluoromethane	ug/L	1.5	24.3	<1.0	14.7	<1.0	6.6	18.8	6.9	38.4
Dieldrin	ug/L							<.05		
Diethyl phthalate	ug/L							<8		
Dimethoate	ug/L							<.4		
Dimethylphthalate	ug/L							<8		
Di-n-butyl phthalate	ug/L							<8		
Di-n-octyl phthalate	ug/L							<8		
Dinoseb	ug/L							<.5		
Diphenylamine	ug/L							<8		
Disulfoton	ug/L							<.4		
Endosulfan i	ug/L							<.05		
Endosulfan ii	ug/L							<.05		
Endosulfan sulfate	ug/L							<.05		
Endrin	ug/L							<.05		
Endrin aldehyde	ug/L							<.05		
Ethyl methacrylate	ug/L							<10		
Ethyl methanesulfonate	ug/L							<8		
Ethylbenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Famphur	ug/L							<.4		
Fluoranthene	ug/L							<8		
Fluorene	ug/L							<8		
Gamma-bhc (lindane)	ug/L							<.05		
Heptachlor	ug/L							<.05		
Heptachlor epoxide	ug/L							<.05		
Hexachlorobenzene	ug/L							<.05		

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

Table 9

Analytical Data Summary for MW98-25

Constituents	9/24/2018	3/25/2019	9/3/2019	3/23/2020	9/4/2020	3/9/2021	9/7/2021	3/28/2022	9/14/2022
Antimony, total	<2	<2	<2	<2	<2	<2	<2	<2	<2
Arochlor 1016									<.1
Arochlor 1221									<.2
Arochlor 1232									<.2
Arochlor 1242									<.2
Arochlor 1248									<.2
Arochlor 1254									<.1
Arochlor 1260									<.1
Arsenic, total	4.4	<4.0	7.9	18.4	6.5	9.8	6.0	29.1	6.6
Azobenzene									<8
Barium, total	62.3	46.0	56.5	81.3	63.5	81.1	84.4	140.0	83.4
Benzene	<1.0	<1.0	<1.0	<1.0	<1.0	1.6	2.7	1.3	<1.0
Benzo(a)anthracene									<8
Benzo(a)pyrene									<8
Benzo(b)fluoranthene									<8
Benzo(g,h,i)perylene									<8
Benzo(k)fluoranthene									<8
Benzyl alcohol									<8
Beryllium, total	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Beta-bhc									<.05
Bis (2-chloroethoxy) methane									<8
Bis(2-chloroethyl) ether									<8
Bis(2-chloroisopropyl) ether									<8
Bis(2-ethylhexyl) phthalate									<6
Bromochloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromodichloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromoform	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromomethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Butyl benzyl phthalate									<8
Cadmium, total	<.8	<.8	<.8	<.8	<.8	<.8	<.8	<.8	<.8
Carbon disulfide	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon tetrachloride	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlordane									<.1
Chlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	<1.0	<1.0
Chlorobenzilate									<8
Chloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.5	<1.0	<1.0
Chloroform	<1	<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	<1.0
Chloroprene									<1
Chromium, total	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0
Chrysene									<8
Cis-1,2-dichloroethylene	2.3	1.0	<1.0	<1.0	2.0	2.5	3.4	2.5	<1.0
Cis-1,3-dichloropropene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cobalt, total	11.6	13.9	8.5	22.2	7.6	11.7	12.8	10.9	19.4
Copper, total	<4.0	<4.0	<4.0	<4.0	<4.0	78.0	<4.0	<4.0	<4.0
Cyanide, total									<.005
Delta-bhc									<.05
Diallate									<8
Dibenzo(a,h)anthracene									<8
Dibenzofuran									<8
Dibromochloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromomethane	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dichlorodifluoromethane	1.6	3.8	<1.0	19.4	1.2	8.6	4.8	1.7	<1.0
Dieldrin									<.05
Diethyl phthalate									<8
Dimethoate									<.4
Dimethylphthalate									<8
Di-n-butyl phthalate									<8
Di-n-octyl phthalate									<8
Dinoseb									<.5
Diphenylamine									<8
Disulfoton									<.4
Endosulfan i									<.05
Endosulfan ii									<.05
Endosulfan sulfate									<.05
Endrin									<.05
Endrin aldehyde									<.05
Ethyl methacrylate									<10
Ethyl methanesulfonate									<8
Ethylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Famphur									<.4
Fluoranthene									<8
Fluorene									<8
Gamma-bhc (lindane)									<.05
Heptachlor									<.05
Heptachlor epoxide									<.05
Hexachlorobenzene									<.05

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

Table 9

Analytical Data Summary for MW98-25

Constituents	3/20/2023	9/12/2023	3/12/2024	9/30/2024	3/24/2025	9/9/2025
Antimony, total	<2	<2	<2	<2	<1	<1
Arochlor 1016						
Arochlor 1221						
Arochlor 1232						
Arochlor 1242						
Arochlor 1248						
Arochlor 1254						
Arochlor 1260						
Arsenic, total	14.1	7.8	16.7	6.6	6.2	7.6
Azobenzene						
Barium, total	95.4	88.2	110.0	90.2	90.7	87.7
Benzene	<1.0	1.4	<1.0	<1.0	<1.0	1.4
Benzo(a)anthracene						
Benzo(a)pyrene						
Benzo(b)fluoranthene						
Benzo(g,h,i)perylene						
Benzo(k)fluoranthene						
Benzyl alcohol						
Beryllium, total	<4.0	<4.0	<4.0	<4.0	<5	<5
Beta-bhc						
Bis (2-chloroethoxy) methane						
Bis(2-chloroethyl) ether						
Bis(2-chloroisopropyl) ether						
Bis(2-ethylhexyl) phthalate						
Bromochloromethane	<1	<1	<1	<1	<1	<1
Bromodichloromethane	<1	<1	<1	<1	<1	<1
Bromoform	<1	<1	<1	<1	<1	<1
Bromomethane	<1	<1	<1	<1	<1	<1
Butyl benzyl phthalate						
Cadmium, total	<.8	<.8	<.8	<.8	<.2	<.2
Carbon disulfide	<1	<1	<1	<1	<1	<1
Carbon tetrachloride	<1	<1	<1	<1	<1	<1
Chlordane						
Chlorobenzene	<1.0	1.3	<1.0	1.0	<1.0	1.4
Chlorobenzilate						
Chloroethane	1.7	1.5	1.4	1.0	<1.0	1.4
Chloroform	<1	<1	<1	<1	<1	<1
Chloromethane	<1.0	<1.0	<1.0	1.8	<1.0	<1.0
Chloroprene						
Chromium, total	<8.0	<8.0	<8.0	<8.0	1.5	1.6
Chrysene						
Cis-1,2-dichloroethylene	2.3	2.8	1.4	2.0	1.5	2.4
Cis-1,3-dichloropropene	<1	<1	<1	<1	<1	<1
Cobalt, total	11.2	15.2	10.7	11.0	8.7	12.3
Copper, total	<4.0	4.9	<4.0	<4.0	<5.0	<5.0
Cyanide, total						
Delta-bhc						
Diallate						
Dibenzo(a,h)anthracene						
Dibenzofuran						
Dibromochloromethane	<1	<1	<1	<1	<1	<1
Dibromomethane	<1	<1	<1	<1	<1	<1
Dichlorodifluoromethane	3.3	2.1	<1.0	<1.0	2.0	
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 MW98-25

Constituents	Units	3/13/2014	9/18/2014	3/17/2015	9/11/2015	3/16/2016	9/8/2016	3/18/2017	9/19/2017	3/8/2018
Hexachlorobutadiene	ug/L							<8		
Hexachlorocyclopentadiene	ug/L							<8		
Hexachloroethane	ug/L							<8		
Hexachloropropene	ug/L							<8		
Indeno(1,2,3-cd)pyrene	ug/L							<8		
Isobutanol	ug/L							<1000		
Isodrin	ug/L							<8		
Isophorone	ug/L							<8		
Isosafrole	ug/L							<8		
Kepone	ug/L							<8		
Lead, total	ug/L	<4	<4	<4	<4	<4	<4	<4	<4	<4
Mercury, total	ug/L							<.5		
Methacrylonitrile	ug/L							<1		
Methapyrilene	ug/L							<8		
Methoxychlor	ug/L							<.05		
Methyl iodide	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methyl methacrylate	ug/L							<1		
Methyl methanesulfonate	ug/L							<8		
Methyl parathion	ug/L							<.4		
Methylene chloride	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
Naphthalene	ug/L							<8		
Nickel, total	ug/L	51.0	48.1	41.6	36.2	37.9	81.7	34.3	17.0	20.1
Nitrobenzene	ug/L							<8		
N-nitrosodiethylamine	ug/L							<8		
N-nitrosodimethylamine	ug/L							<8		
N-nitrosodi-n-butylamine	ug/L							<8		
N-nitroso-di-n-propylamine	ug/L							<8		
N-nitrosodiphenylamine	ug/L							<8		
N-nitrosomethylethylamine	ug/L							<8		
N-nitrosopiperidine	ug/L							<8		
N-nitrosopyrrolidine	ug/L							<8		
O,o,o-triethyl phosphorothioate	ug/L							<.4		
O-toluidine	ug/L							<8		
Parathion	ug/L							<.4		
P-dimethylaminoazobenzene	ug/L							<8		
Pentachlorobenzene	ug/L							<8		
Pentachloronitrobenzene (pcnb)	ug/L							<8		
Pentachlorophenol	ug/L							<8		
Phenacetin	ug/L							<8		
Phenanthrene	ug/L							<8		
Phenol	ug/L							<8		
Phorate	ug/L							<.4		
Pronamide	ug/L							<8		
Propionitrile	ug/L							<10		
Pyrene	ug/L							<8		
Safrole	ug/L							<8		
Selenium, total	ug/L	<4	<4	<4	<4	<4	<4	<4	<4	<4
Silver, total	ug/L	<4	<4	<4	<4	<4	<4	<4	<4	<4
Styrene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Sulfide, total	mg/L							<.1		
Tetrachloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Thallium, total	ug/L	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Thionazin	ug/L							<.4		
Tin, total	ug/L							<20		
Toluene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total suspended solids	mg/L		69	41						
Toxaphene	ug/L							<.2		
Trans-1,2-dichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,3-dichloropropene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,4-dichloro-2-butene	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
Trichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	ug/L	<1.0	3.2	<1.0	<1.0	<1.0	4.4	4.3	1.6	2.5
Vanadium, total	ug/L	<20	<20	<20	<20	<20	<20	<20	<20	<20
Vinyl acetate	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
Vinyl chloride	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	ug/L	<2	<2	<2	<2	<2	<2	<2	<2	<2
Zinc, total	ug/L	<8.0	15.6	<8.0	<8.0	<8.0	17.7	<8.0	<8.0	<8.0

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

Table 9

Analytical Data Summary for MW98-25

Constituents	9/24/2018	3/25/2019	9/3/2019	3/23/2020	9/4/2020	3/9/2021	9/7/2021	3/28/2022	9/14/2022
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	<2
Methyl methacrylate									<1
Methyl methanesulfonate									<8
Methyl parathion									<.4
Methylene chloride	<5	<5	<5	<5	<5	<5	<5	<5	<5
Naphthalene									<8
Nickel, total	24.6	21.2	9.0	29.9	10.5	16.7	20.4	21.9	24.3
Nitrobenzene									<8
N-nitrosodiethylamine									<8
N-nitrosodimethylamine									<8
N-nitrosodi-n-butylamine									<8
N-nitroso-di-n-propylamine									<8
N-nitrosodiphenylamine									<8
N-nitrosomethylethylamine									<8
N-nitrosopiperidine									<8
N-nitrosopyrrolidine									<8
O,o,o-triethyl phosphorothioate									<.4
O-toluidine									<8
Parathion									<.4
P-dimethylaminoazobenzene									<8
Pentachlorobenzene									<8
Pentachloronitrobenzene (pcnb)									<8
Pentachlorophenol									<8
Phenacetin									<8
Phenanthrene									<8
Phenol									<8
Phorate									<.4
Pronamide									<8
Propionitrile									<10
Pyrene									<8
Safrole									<8
Selenium, total	<4	<4	<4	<4	<4	<4	<4	<4	<4
Silver, total	<4	<4	<4	<4	<4	<4	<4	<4	<4
Styrene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Sulfide, total									<.1
Tetrachloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Thallium, total	<4.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Thionazin									<.4
Tin, total									<20
Toluene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total suspended solids									<.2
Toxaphene									<.1
Trans-1,2-dichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,3-dichloropropene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,4-dichloro-2-butene	<5	<5	<5	<5	<5	<5	<5	<5	<5
Trichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	<1.0	<1.0	<1.0	6.0	1.0	2.6	<1.0	1.0	<1.0
Vanadium, total	<20	<20	<20	<20	<20	<20	<20	<20	<20
Vinyl acetate	<5	<5	<5	<5	<5	<5	<5	<5	<5
Vinyl chloride	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	<2	<2	<2	<2	<2	<2	<2	<2	<2
Zinc, total	<8.0	<8.0	11.0	<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 MW98-25

Constituents	3/20/2023	9/12/2023	3/12/2024	9/30/2024	3/24/2025	9/9/2025
Hexachlorobutadiene						
Hexachlorocyclopentadiene						
Hexachloroethane						
Hexachloropropene						
Indeno(1,2,3-cd)pyrene						
Isobutanol						
Isodrin						
Isophorone						
Isosafrole						
Kepone						
Lead, total	<4	<4	<4	<4	<1	<1
Mercury, total						
Methacrylonitrile						
Methapyrilene						
Methoxychlor						
Methyl iodide	<1	<1	<1	<1	<1	<1
Methyl methacrylate						
Methyl methanesulfonate						
Methyl parathion						
Methylene chloride	<5	<5	<5	<5	<5	<5
Naphthalene						
Nickel, total	23.4	35.7	23.6	26.5	19.2	27.6
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						
Parathion						
P-dimethylaminoazobenzene						
Pentachlorobenzene						
Pentachloronitrobenzene (pcnb)						
Pentachlorophenol						
Phenacetin						
Phenanthrene						
Phenol						
Phorate						
Pronamide						
Propionitrile						
Pyrene						
Safrole						
Selenium, total	<4	<4	<4	<4	<2	<2
Silver, total	<4	<4	<4	<4	<5	<5
Styrene	<1	<1	<1	<1	<1	<1
Sulfide, total						
Tetrachloroethylene	<1	<1	<1	<1	<1	<1
Thallium, total	<2.0	<2.0	<2.0	<2.0	<5	<5
Thionazin						
Tin, total						
Toluene	<1	<1	<1	<1	<1	<1
Total suspended solids						
Toxaphene						
Trans-1,2-dichloroethylene	<1	<1	<1	<1	<1	<1
Trans-1,3-dichloropropene	<1	<1	<1	<1	<1	<1
Trans-1,4-dichloro-2-butene	<5	<5	<5	<5	<5	<5
Trichloroethylene	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	1.2	1.1	1.0	<1.0	<1.0	<1.0
Vanadium, total	<20	<20	<20	<20	<2	<2
Vinyl acetate	<5	<5	<5	<5	<5	<5
Vinyl chloride	<1	<1	<1	<1	<1	<1
Xylenes, total	<2	<2	<2	<2	<2	<2
Zinc, total	<20.0	<20.0	<20.0	<20.0	<5.0	<5.0

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

Table 9

Analytical Data Summary for MW98-28

Constituents	Units	3/13/2014	9/18/2014	11/13/2014	3/17/2015	6/29/2015	9/11/2015	3/16/2016	9/8/2016	3/17/2017
1,1,1,2-tetrachloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-trichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-trichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,3-trichloropropane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dibromo-3-chloropropane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dibromoethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichlorobenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloropropane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-dichlorobenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-butanone (mek)	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
2-hexanone (mbk)	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
4-methyl-2-pentanone (mibk)	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
Acetone	ug/L	<10	<10	<10	<10	<10	<10	<10	<10	<10
Acrylonitrile	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
Antimony, total	ug/L	<2.0	<2.0	2.5	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Arsenic, total	ug/L	<4.0	18.9	<4.0	<4.0	9.5	<4.0	<4.0	<4.0	<4.0
Barium, total	ug/L	220	536	105	98	305	107	109	144	125
Benzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Beryllium, total	ug/L	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Bromochloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromodichloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromoform	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromomethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cadmium, total	ug/L	<8	11.8	<8	<8	1.1	<8	<8	<8	<8
Carbon disulfide	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon tetrachloride	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chromium, total	ug/L	<8.0	43.4	<8.0	<8.0	24.9	<8.0	<8.0	<8.0	<8.0
Cis-1,2-dichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cis-1,3-dichloropropene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cobalt, total	ug/L	<4.0	81.5	<8	<8	27.3	<8	<8	1.0	<8
Copper, total	ug/L	<4.0	97.9	<4.0	<4.0	29.9	<4.0	<4.0	<4.0	<4.0
Dibromochloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromomethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Lead, total	ug/L	<4.0	38.1	<4.0	<4.0	15.6	<4.0	<4.0	<4.0	<4.0
Methyl iodide	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene chloride	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
Nickel, total	ug/L	4.9	105.0	<4.0	<4.0	42.0	<4.0	<4.0	<4.0	4.0
Selenium, total	ug/L	<4	9	<4	<4	<4	<4	<4	<4	<4
Silver, total	ug/L	<4	<4	<4	<4	<4	<4	<4	<4	<4
Styrene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Thallium, total	ug/L	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Toluene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total suspended solids	mg/L		148		13					
Trans-1,2-dichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,3-dichloropropene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,4-dichloro-2-butene	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
Trichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vanadium, total	ug/L	<20.0	87.6	<20.0	<20.0	40.6	<20.0	<20.0	<20.0	<20.0
Vinyl acetate	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
Vinyl chloride	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	ug/L	<2	<2	<2	<2	<2	<2	<2	<2	<2
Zinc, total	ug/L	<8.0	127.0	<20.0	<8.0	59.4	<8.0	<8.0	8.2	<8.0

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

Table 9

Analytical Data Summary for MW98-28

Constituents	9/19/2017	3/8/2018	9/24/2018	3/25/2019	9/3/2019	3/23/2020	9/4/2020	3/9/2021	9/7/2021	3/28/2022
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-dichloroethylene	<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	4.5	<2.0	2.1	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.3
Arsenic, total	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	8.2	<4.0	<4.0
Barium, total	181	172	169	113	143	119	156	341	147	254
Benzene	<1	<1		<1	<1	<1	<1	<1	<1	<1
Beryllium, total	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Bromochloromethane	<1	<1		<1	<1	<1	<1	<1	<1	<1
Bromodichloromethane	<1	<1		<1	<1	<1	<1	<1	<1	<1
Bromoform	<1	<1		<1	<1	<1	<1	<1	<1	<1
Bromomethane	<1	<1		<1	<1	<1	<1	<1	<1	<1
Cadmium, total	<.8	<.8	<.8	<.8	<.8	<.8	<.8	<.8	<.8	<.8
Carbon disulfide	<1	<1		<1	<1	<1	<1	<1	<1	<1
Carbon tetrachloride	<1	<1		<1	<1	<1	<1	<1	<1	<1
Chlorobenzene	<1	<1		<1	<1	<1	<1	<1	<1	<1
Chloroethane	<1	<1		<1	<1	<1	<1	<1	<1	<1
Chloroform	<1	<1		<1	<1	<1	<1	<1	<1	<1
Chloromethane	<1	<1		<1	<1	<1	<1	<1	<1	<1
Chromium, total	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	18.6	<8.0	12.7
Cis-1,2-dichloroethylene	<1	<1		<1	<1	<1	<1	<1	<1	<1
Cis-1,3-dichloropropene	<1	<1		<1	<1	<1	<1	<1	<1	<1
Cobalt, total	4.4	<.8	4.8	.9	.9	1.6	.5	19.1	.4	4.2
Copper, total	5.4	<4.0	5.1	<4.0	<4.0	<4.0	<4.0	104.0	<4.0	7.6
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	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	11.9	<4.0	<4.0
Methyl iodide	<1	<1		<1	<1	<1	<1	<1	<1	<1
Methylene chloride	<5	<5		<5	<5	<5	<5	<5	<5	<5
Nickel, total	10.2	<4.0	7.6	<4.0	<4.0	6.3	<4.0	33.6	<4.0	17.4
Selenium, total	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Silver, total	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Styrene	<1	<1		<1	<1	<1	<1	<1	<1	<1
Tetrachloroethylene	<1	<1		<1	<1	<1	<1	<1	<1	<1
Thallium, total	<4.0	<4.0	<4.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Toluene	<1	<1		<1	<1	<1	<1	<1	<1	<1
Total suspended solids										
Trans-1,2-dichloroethylene	<1	<1		<1	<1	<1	<1	<1	<1	<1
Trans-1,3-dichloropropene	<1	<1		<1	<1	<1	<1	<1	<1	<1
Trans-1,4-dichloro-2-butene	<5	<5		<5	<5	<5	<5	<5	<5	<5
Trichloroethylene	<1	<1		<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	<1	<1		<1	<1	<1	<1	<1	<1	<1
Vanadium, total	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	29.2	<20.0	<20.0
Vinyl acetate	<5	<5		<5	<5	<5	<5	<5	<5	<5
Vinyl chloride	<1	<1		<1	<1	<1	<1	<1	<1	<1
Xylenes, total	<2	<2		<2	<2	<2	<2	<2	<2	<2
Zinc, total	11.1	<8.0	13.2	<8.0	10.6	<20.0	<20.0	37.6	<20.0	<20.0

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

Table 9

Analytical Data Summary for MW98-28

Constituents	9/14/2022	3/20/2023	9/12/2023	3/12/2024	9/30/2024	3/24/2025	9/9/2025
1,1,1,2-tetrachloroethane	<1	<1	<1	<1	<1	<1	<1
1,1,1-trichloroethane	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	<1	<1	<1	<1	<1	<1	<1
1,1,2-trichloroethane	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethane	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethylene	<1	<1	<1	<1	<1	<1	<1
1,2,3-trichloropropane	<1	<1	<1	<1	<1	<1	<1
1,2-dibromo-3-chloropropane	<5	<5	<5	<5	<5	<5	<5
1,2-dibromoethane	<1	<1	<1	<1	<1	<1	<1
1,2-dichlorobenzene	<1	<1	<1	<1	<1	<1	<1
1,2-dichloroethane	<1	<1	<1	<1	<1	<1	<1
1,2-dichloropropane	<1	<1	<1	<1	<1	<1	<1
1,4-dichlorobenzene	<1	<1	<1	<1	<1	<1	<1
2-butanone (mek)	<10	<10	<10	<10	<10	<10	<10
2-hexanone (mbk)	<5	<5	<5	<5	<5	<5	<5
4-methyl-2-pentanone (mibk)	<5	<5	<5	<5	<5	<5	<5
Acetone	<10	<10	<10	<10	<10	<10	<10
Acrylonitrile	<5	<5	<5	<5	<5	<5	<5
Antimony, total	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<1.0
Arsenic, total	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<2.0
Barium, total	236	226	277	246	270	256	237
Benzene	<1	<1	<1	<1	<1	<1	<1
Beryllium, total	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<5
Bromochloromethane	<1	<1	<1	<1	<1	<1	<1
Bromodichloromethane	<1	<1	<1	<1	<1	<1	<1
Bromoform	<1	<1	<1	<1	<1	<1	<1
Bromomethane	<1	<1	<1	<1	<1	<1	<1
Cadmium, total	<.8	<.8	<.8	<.8	<.8	<.8	<2
Carbon disulfide	<1	<1	<1	<1	<1	<1	<1
Carbon tetrachloride	<1	<1	<1	<1	<1	<1	<1
Chlorobenzene	<1	<1	<1	<1	<1	<1	<1
Chloroethane	<1	<1	<1	<1	<1	<1	<1
Chloroform	<1	<1	<1	<1	<1	<1	<1
Chloromethane	<1	<1	<1	<1	<1	<1	<1
Chromium, total	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	2.8
Cis-1,2-dichloroethylene	<1	<1	<1	<1	<1	<1	<1
Cis-1,3-dichloropropene	<1	<1	<1	<1	<1	<1	<1
Cobalt, total	4.4	1.1	1.6	.8	3.9	2.1	1.1
Copper, total	<4.0	<4.0	<4.0	<4.0	4.8	<4.0	<5.0
Dibromochloromethane	<1	<1	<1	<1	<1	<1	<1
Dibromomethane	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	<1	<1	<1	<1	<1	<1	<1
Lead, total	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<1.0
Methyl iodide	<1	<1	<1	<1	<1	<1	<1
Methylene chloride	<5	<5	<5	<5	<5	<5	<5
Nickel, total	4.8	6.6	8.2	5.8	10.1	7.8	8.2
Selenium, total	<4	<4	<4	<4	<4	<4	<2
Silver, total	<4	<4	<4	<4	<4	<4	<5
Styrene	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethylene	<1	<1	<1	<1	<1	<1	<1
Thallium, total	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5
Toluene	<1	<1	<1	<1	<1	<1	<1
Total suspended solids							
Trans-1,2-dichloroethylene	<1	<1	<1	<1	<1	<1	<1
Trans-1,3-dichloropropene	<1	<1	<1	<1	<1	<1	<1
Trans-1,4-dichloro-2-butene	<5	<5	<5	<5	<5	<5	<5
Trichloroethylene	<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	<1	<1	<1	<1	<1	<1	<1
Vanadium, total	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<2.0
Vinyl acetate	<5	<5	<5	<5	<5	<5	<5
Vinyl chloride	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	<2	<2	<2	<2	<2	<2	<2
Zinc, total	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	6.3

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

Table 9

Analytical Data Summary for PEC-3

Constituents	Units	3/28/2022	4/18/2022	9/30/2024	12/8/2024	1/23/2025	3/24/2025	7/8/2025
1,1,1,2-tetrachloroethane	ug/L	<1	<1	<1	<2		<1	
1,1,1-trichloroethane	ug/L	<1	<1	<1	<2		<1	
1,1,2,2-tetrachloroethane	ug/L	<1	<1	<1	<2		<1	
1,1,2-trichloroethane	ug/L	<1	<1	<1	<2		<1	
1,1-dichloroethane	ug/L	<1	<1	<1	<2		<1	
1,1-dichloroethylene	ug/L	<1	<1	<1	<2		<1	
1,2,3-trichloropropane	ug/L	<1	<1	<1	<2		<1	
1,2-dibromo-3-chloropropane	ug/L	<5	<5	<5	<10		<5	
1,2-dibromoethane	ug/L	<1	<1	<1	<2		<1	
1,2-dichlorobenzene	ug/L	<1	<1	<1	<2		<1	
1,2-dichloroethane	ug/L	<1	<1	<1	<2		<1	
1,2-dichloropropane	ug/L	<1	<1	<1	<2		<1	
1,4-dichlorobenzene	ug/L	<1	<1	<1	<2		<1	
2-butanone (mek)	ug/L	<10	<10	<10	606	<10	<10	
2-hexanone (mbk)	ug/L	<5	<5	<5	<10		<5	
4-methyl-2-pentanone (mibk)	ug/L	<5	<5	<5	<10		<5	
Acetone	ug/L	<10	<10	<10	508	<20	<10	
Acrylonitrile	ug/L	<5	<5	<5	<10		<5	
Benzene	ug/L	1.5	<1.0	<1.0	<2.0		<1.0	
Bromochloromethane	ug/L	<1	<1	<1	<2		<1	
Bromodichloromethane	ug/L	<1	<1	<1	<2		<1	
Bromoform	ug/L	<1	<1	<1	<2		<1	
Bromomethane	ug/L	<1	<1	<1	<2		<1	
Carbon disulfide	ug/L	<1	<1	<1	<2		<1	
Carbon tetrachloride	ug/L	<1	<1	<1	<2		<1	
Chlorobenzene	ug/L	<1	<1	<1	<2		<1	
Chloroethane	ug/L	<1	<1	<1	<2		<1	
Chloroform	ug/L	<1	<1	<1	<2		<1	
Chloromethane	ug/L	<1	<1	<1	<2		<1	
Cis-1,2-dichloroethylene	ug/L	3.2	<1.0	<1.0	<2.0		1.4	<1.0
Cis-1,3-dichloropropene	ug/L	<1	<1	<1	<2		<1	
Dibromochloromethane	ug/L	<1	<1	<1	<2		<1	
Dibromomethane	ug/L	<1	<1	<1	<2		<1	
Ethylbenzene	ug/L	<1	<1	<1	<2		<1	
Methyl iodide	ug/L	<1	<1	<1	<2		<1	
Methylene chloride	ug/L	<5	<5	<5	<10		<5	
Styrene	ug/L	<1	<1	<1	<2		<1	
Tetrachloroethylene	ug/L	<1	<1	<1	<2		<1	
Toluene	ug/L	<1	<1	<1	2	<1	<1	
Trans-1,2-dichloroethylene	ug/L	<1	<1	<1	<2		<1	
Trans-1,3-dichloropropene	ug/L	<1	<1	<1	<2		<1	
Trans-1,4-dichloro-2-butene	ug/L	<5	<5	<5	<10		<5	
Trichloroethylene	ug/L	<1	<1	<1	<2		<1	
Trichlorofluoromethane	ug/L	<1	<1	<1	<2		<1	
Vinyl acetate	ug/L	<5	<5	<5	<10		<5	
Vinyl chloride	ug/L	<1	<1	<1	<2		<1	
Xylenes, total	ug/L	<2	<2	<2	<4		<2	

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

Table 9

Analytical Data Summary for Sramp 1

Constituents	Units	3/13/2014	9/19/2014	3/17/2015	9/11/2015	3/16/2016	9/8/2016	3/18/2017	9/19/2017	3/25/2019
1,1,1,2-tetrachloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-trichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-trichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethane	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-dichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,3-trichloropropane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dibromo-3-chloropropane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dibromoethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichlorobenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloropropane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-dichlorobenzene	ug/L	<1.0	<1.0	2.2	6.4	3.9	4.6	2.7	<1.0	<1.0
2-butanone (mek)	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
2-hexanone (mbk)	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
4-methyl-2-pentanone (mibk)	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
Acetone	ug/L	<10.0	<10.0	<10.0	<10.0	82.1	<10.0	<10.0	<10.0	19.3
Acrylonitrile	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
Antimony, total	ug/L	<2	<2	<2	<2	<2	<2	<2	<2	<2
Arsenic, total	ug/L	<4.0	<4.0	11.2	13.5	15.4	9.3	8.0	<4.0	7.4
Barium, total	ug/L	81.2	63.8	95.1	76.2	105.0	174.0	155.0	140.0	133.0
Benzene	ug/L	<1.0	<1.0	2.6	6.2	5.0	2.2	2.0	<1.0	1.2
Beryllium, total	ug/L	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
Beta-bhc	ug/L	<.05	<.05	<.05	<.05	<.05	<.05	<.05	<.05	<.05
Bis(2-ethylhexyl) phthalate	ug/L	<10	<10	<10	<10	<10	<10	<10	<6	<6
Bromochloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromodichloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromoform	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromomethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cadmium, total	ug/L	<.8	<.8	<.8	<.8	<.8	<.8	<.8	<.8	<.8
Carbon disulfide	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon tetrachloride	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzene	ug/L	<1.0	<1.0	<1.0	2.4	1.9	1.4	1.1	<1.0	1.5
Chloroethane	ug/L	<1.0	<1.0	<1.0	1.4	1.9	2.0	1.6	<1.0	2.6
Chloroform	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chromium, total	ug/L	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0
Cis-1,2-dichloroethylene	ug/L	<1.0	<1.0	1.4	2.7	2.5	2.8	2.1	<1.0	4.0
Cis-1,3-dichloropropene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cobalt, total	ug/L	<4.0	5.5	7.2	4.9	20.1	7.1	8.1	1.5	7.7
Copper, total	ug/L	<4	<4	<4	<4	<4	<4	<4	<4	<4
Dibromochloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromomethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dichlorodifluoromethane	ug/L	<1.0	<1.0	16.7	40.6	16.5	40.7	34.8	3.1	38.4
Ethylbenzene	ug/L	<1.0	<1.0	<1.0	<1.0	2.1	<1.0	<1.0	<1.0	<1.0
Lead, total	ug/L	<4	<4	<4	<4	<4	<4	<4	<4	<4
Methyl iodide	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene chloride	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
Nickel, total	ug/L	33.7	19.5	23.1	12.4	27.9	24.9	23.9	6.7	18.2
Selenium, total	ug/L	<4	<4	<4	<4	<4	<4	<4	<4	<4
Silver, total	ug/L	<4	<4	<4	<4	<4	<4	<4	<4	<4
Styrene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Thallium, total	ug/L	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<2.0
Toluene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total suspended solids	mg/L		6	62						
Trans-1,2-dichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,3-dichloropropene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,4-dichloro-2-butene	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
Trichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	ug/L	<1.0	<1.0	<1.0	7.3	39.1	24.2	17.9	2.1	22.5
Vanadium, total	ug/L	<20	<20	<20	<20	<20	<20	<20	<20	<20
Vinyl acetate	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
Vinyl chloride	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	ug/L	<2.0	<2.0	<2.0	<2.0	2.4	<2.0	<2.0	<2.0	<2.0
Zinc, total	ug/L	285.0	44.1	20.7	<8.0	<8.0	9.9	<8.0	<8.0	<8.0

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

Table 9

Analytical Data Summary for Sramp 1

Constituents	9/3/2019	3/9/2021	3/28/2022	3/20/2023	3/24/2025
1,1,1,2-tetrachloroethane	<1	<1	<1	<1	<1
1,1,1-trichloroethane	<1	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	<1	<1	<1	<1	<1
1,1,2-trichloroethane	<1	<1	<1	<1	<1
1,1-dichloroethane	<1.0	2.6	1.4	1.4	<1.0
1,1-dichloroethylene	<1	<1	<1	<1	<1
1,2,3-trichloropropane	<1	<1	<1	<1	<1
1,2-dibromo-3-chloropropane	<1	<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	<1.0	5.8	5.0	6.5	9.1
2-butanone (mek)	<5	<5	<10	<10	<10
2-hexanone (mbk)	<5	<5	<5	<5	<5
4-methyl-2-pentanone (mibk)	<5	<5	<5	<5	<5
Acetone	<10.0	<10.0	23.5	<10.0	<10.0
Acrylonitrile	<5	<5	<5	<5	<5
Antimony, total	<2	<2	<2	<2	<1
Arsenic, total	43.1	4.7	6.1	7.2	5.6
Barium, total	200.0	80.4	77.1	82.9	139.0
Benzene	1.2	5.7	4.8	5.7	5.6
Beryllium, total	<4.0	<4.0	<4.0	<4.0	<.5
Beta-bhc					
Bis(2-ethylhexyl) phthalate					
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	<.2
Carbon disulfide	<1	<1	<1	<1	<1
Carbon tetrachloride	<1	<1	<1	<1	<1
Chlorobenzene	<1.0	1.7	1.4	1.7	2.4
Chloroethane	2.5	2.6	1.6	2.0	1.6
Chloroform	<1	<1	<1	<1	<1
Chloromethane	<1	<1	<1	<1	<1
Chromium, total	<8.0	<8.0	<8.0	<8.0	1.2
Cis-1,2-dichloroethylene	2.4	4.4	3.0	3.0	2.5
Cis-1,3-dichloropropene	<1	<1	<1	<1	<1
Cobalt, total	8.9	2.7	2.1	1.8	1.7
Copper, total	<4	<4	<4	<4	<5
Dibromochloromethane	<1	<1	<1	<1	<1
Dibromomethane	<1	<1	<1	<1	<1
Dichlorodifluoromethane	<1.0	50.7	12.2	18.4	16.9
Ethylbenzene	<1.0	1.9	<1.0	<1.0	<1.0
Lead, total	<4	<4	<4	<4	<1
Methyl iodide	<1	<1	<1	<1	<1
Methylene chloride	<5	<5	<5	<5	<5
Nickel, total	26.0	6.4	7.6	7.5	6.5
Selenium, total	<4	<4	<4	<4	<2
Silver, total	<4	<4	<4	<4	<5
Styrene	<1	<1	<1	<1	<1
Tetrachloroethylene	<1	<1	<1	<1	<1
Thallium, total	<2.0	<2.0	<2.0	<2.0	<.5
Toluene	<1	<1	<1	<1	<1
Total suspended solids					
Trans-1,2-dichloroethylene	<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
Trichloroethylene	<1	<1	<1	<1	<1
Trichlorofluoromethane	<1.0	28.0	8.1	9.1	11.1
Vanadium, total	<20	<20	<20	<20	<2
Vinyl acetate	<5	<5	<5	<5	<5
Vinyl chloride	<1	<1	<1	<1	<1
Xylenes, total	<2.0	<2.0	<2.0	<2.0	<2.0
Zinc, total	<8.0	<20.0	<20.0	<20.0	<5.0

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

Table 9

Analytical Data Summary for SRAMP 2

Constituents	Units	3/13/2014	6/10/2014	8/7/2014	9/19/2014	11/13/2014	3/17/2015	9/11/2015	3/16/2016	9/8/2016
1,1,1,2-tetrachloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-trichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-trichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,3-trichloropropane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dibromo-3-chloropropane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dibromoethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichlorobenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloropropane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-dichlorobenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-butanone (mek)	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
2-hexanone (mbk)	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
4-methyl-2-pentanone (mibk)	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
Acetone	ug/L	82.2	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Acrylonitrile	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
Antimony, total	ug/L	<2	<2	<2	<2	<2	<2	<2	<2	<2
Arsenic, total	ug/L	<4	<4	<4	<4	<4	<4	<4	<4	<4
Barium, total	ug/L	24.0	58.3	99.7	73.9	52.7	63.5	92.8	110.0	98.3
Benzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Beryllium, total	ug/L	<4	<4	<4	<4	<4	<4	<4	<4	<4
Beta-bhc	ug/L	<.05						<.05	<.05	<.05
Bis(2-ethylhexyl) phthalate	ug/L	<10						<10	<10	<10
Bromochloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromodichloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromoform	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromomethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cadmium, total	ug/L	<.8	<.8	<.8	<.8	<.8	<.8	<.8	<.8	<.8
Carbon disulfide	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon tetrachloride	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chromium, total	ug/L	<8	<8	<8	<8	<8	<8	<8	<8	<8
Cis-1,2-dichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cis-1,3-dichloropropene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cobalt, total	ug/L	<4.0	<4.0	<4.0	<8	<8	<8	<8	<8	<8
Copper, total	ug/L	5.1	<4.0	<4.0	<4.0	10.4	<4.0	<4.0	<4.0	<4.0
Dibromochloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromomethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dichlorodifluoromethane	ug/L	<1						<1	<1	<1
Ethylbenzene	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Lead, total	ug/L	<4	<4	<4	<4	<4	<4	<4	<4	<4
Methyl iodide	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene chloride	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
Nickel, total	ug/L	<4.0	7.8	5.9	4.7	4.4	4.9	<4.0	4.2	4.8
Selenium, total	ug/L	<4	<4	<4	<4	<4	<4	<4	<4	<4
Silver, total	ug/L	<4	<4	<4	<4	<4	<4	<4	<4	<4
Styrene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Thallium, total	ug/L	<4	<4	<4	<4	<4	<4	<4	<4	<4
Toluene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total suspended solids	mg/L				<2		<2			
Trans-1,2-dichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,3-dichloropropene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,4-dichloro-2-butene	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
Trichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vanadium, total	ug/L	<20	<20	<20	<20	<20	<20	<20	<20	<20
Vinyl acetate	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
Vinyl chloride	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Zinc, total	ug/L	9.7	<8.0	9.1	<8.0	<20.0	<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 SRAMP 2

Constituents	3/18/2017	3/8/2018	9/24/2018	12/20/2018	3/25/2019	3/23/2020	3/9/2021	3/28/2022	3/20/2023
1,1,1,2-tetrachloroethane	<1	<1	<1		<1	<1	<1	<1	<1
1,1,1-trichloroethane	<1	<1	<1		<1	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	<1	<1	<1		<1	<1	<1	<1	<1
1,1,2-trichloroethane	<1	<1	<1		<1	<1	<1	<1	<1
1,1-dichloroethane	<1	<1	<1		<1	<1	<1	<1	<1
1,1-dichloroethylene	<1	<1	<1		<1	<1	<1	<1	<1
1,2,3-trichloropropane	<1	<1	<1		<1	<1	<1	<1	<1
1,2-dibromo-3-chloropropane	<1	<1	<1		<1	<5	<5	<5	<5
1,2-dibromoethane	<1	<1	<1		<1	<1	<1	<1	<1
1,2-dichlorobenzene	<1	<1	<1		<1	<1	<1	<1	<1
1,2-dichloroethane	<1	<1	<1		<1	<1	<1	<1	<1
1,2-dichloropropane	<1	<1	<1		<1	<1	<1	<1	<1
1,4-dichlorobenzene	<1	<1	<1		<1	<1	<1	<1	<1
2-butanone (mek)	<5	<5	<5		<5	<5	<5	<10	<10
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	<10.0	<10.0	<10.0		<10.0	<10.0	<10.0	<10.0	<10.0
Acrylonitrile	<5	<5	<5		<5	<5	<5	<5	<5
Antimony, total	<2	<2	<2		<2	<2	<2	<2	<2
Arsenic, total	<4	<4	<4		<4	<4	<4	<4	<4
Barium, total	86.9	61.0	84.1		81.3	77.9	36.6	50.2	
Benzene	<1	<1	<1		<1	<1	<1	<1	<1
Beryllium, total	<4	<4	<4		<4	<4	<4	<4	<4
Beta-bhc	<.05								
Bis(2-ethylhexyl) phthalate	<10								
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
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	<1	<1		<1	<1	<1	<1	<1
Chromium, total	<8	<8	<8		<8	<8	<8	<8	<8
Cis-1,2-dichloroethylene	<1	<1	<1		<1	<1	<1	<1	<1
Cis-1,3-dichloropropene	<1	<1	<1		<1	<1	<1	<1	<1
Cobalt, total	<.8	1.1	<.8		<.8	<.8	<.4	.6	
Copper, total	<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
Dichlorodifluoromethane	<1	<1	<1		<1	<1	<1	<1	<1
Ethylbenzene	<1.0	<1.0	1.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Lead, total	<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	4.3	7.5	4.5		14.7	<4.0	<4.0	4.8	
Selenium, total	<4	<4	<4		<4	<4	<4	<4	<4
Silver, total	<4	<4	<4		<4	<4	<4	<4	<4
Styrene	<1	<1	<1		<1	<1	<1	<1	<1
Tetrachloroethylene	<1	<1	<1		<1	<1	<1	<1	<1
Thallium, total	<4	<4	<4		<2	<2	<2	<2	<2
Toluene	<1	<1	<1		<1	<1	<1	<1	<1
Total suspended solids									
Trans-1,2-dichloroethylene	<1	<1	<1		<1	<1	<1	<1	<1
Trans-1,3-dichloropropene	<1	<1	<1		<1	<1	<1	<1	<1
Trans-1,4-dichloro-2-butene	<5	<5	<5		<5	<5	<5	<5	<5
Trichloroethylene	<1	<1	<1		<1	<1	<1	<1	<1
Trichlorofluoromethane	<1	<1	<1		<1	<1	<1	<1	<1
Vanadium, total	<20	<20	<20		<20	<20	<20	<20	<20
Vinyl acetate	<5	<5	<5		<5	<5	<5	<5	<5
Vinyl chloride	<1	<1	<1		<1	<1	<1	<1	<1
Xylenes, total	<2.0	<2.0	8.1	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Zinc, total	<8.0	13.3	<8.0		<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 SRAMP 2

Constituents	3/12/2024	3/24/2025
1,1,1,2-tetrachloroethane	<1	<1
1,1,1-trichloroethane	<1	<1
1,1,2,2-tetrachloroethane	<1	<1
1,1,2-trichloroethane	<1	<1
1,1-dichloroethane	<1	<1
1,1-dichloroethylene	<1	<1
1,2,3-trichloropropane	<1	<1
1,2-dibromo-3-chloropropane	<5	<5
1,2-dibromoethane	<1	<1
1,2-dichlorobenzene	<1	<1
1,2-dichloroethane	<1	<1
1,2-dichloropropane	<1	<1
1,4-dichlorobenzene	<1	<1
2-butanone (mek)	<10	<10
2-hexanone (mbk)	<5	<5
4-methyl-2-pentanone (mibk)	<5	<5
Acetone	<10.0	<10.0
Acrylonitrile	<5	<5
Antimony, total		
Arsenic, total		
Barium, total		
Benzene	<1	<1
Beryllium, total		
Beta-bhc		
Bis(2-ethylhexyl) phthalate		
Bromochloromethane	<1	<1
Bromodichloromethane	<1	<1
Bromoform	<1	<1
Bromomethane	<1	<1
Cadmium, total		
Carbon disulfide	<1	<1
Carbon tetrachloride	<1	<1
Chlorobenzene	<1	<1
Chloroethane	<1	<1
Chloroform	<1	<1
Chloromethane	<1	<1
Chromium, total		
Cis-1,2-dichloroethylene	<1	<1
Cis-1,3-dichloropropene	<1	<1
Cobalt, total		
Copper, total		
Dibromochloromethane	<1	<1
Dibromomethane	<1	<1
Dichlorodifluoromethane	<1	<1
Ethylbenzene	<1.0	<1.0
Lead, total		
Methyl iodide	<1	<1
Methylene chloride	<5	<5
Nickel, total		
Selenium, total		
Silver, total		
Styrene	<1	<1
Tetrachloroethylene	<1	<1
Thallium, total		
Toluene	<1	<1
Total suspended solids		
Trans-1,2-dichloroethylene	<1	<1
Trans-1,3-dichloropropene	<1	<1
Trans-1,4-dichloro-2-butene	<5	<5
Trichloroethylene	<1	<1
Trichlorofluoromethane	<1	<1
Vanadium, total		
Vinyl acetate	<5	<5
Vinyl chloride	<1	<1
Xylenes, total	<2.0	<2.0
Zinc, total		

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

Table 10 – Historic SSI and SSL – not required

Table 11 – Corrective Action Trend Analysis– not required

Table 12 – Leachate Levels (RCRA Area and Original Landfill)

Table 12
Leachate Level Measurements
Annual Water Quality Report
Boone County Sanitary Landfill
Permit Number 08-SDP-01-75P

Well/TOC LPZ-2R Boone Co SLF Sept 14 1100.43					Well/TOC LPZ-3 1083.81 Boone Co SLF Jan 03 1112.37					Well/TOC LPZ-6R Boone Co SLF Sept 14 1107.81				
Date	Depth to Leachate (ft)	Leachate Elevation	Waste Base Elevation	Saturated Thickness (ft)	Date	Depth to Leachate (ft)	Leachate Elevation	Waste Base Elevation	Saturated Thickness (ft)	Date	Depth to Leachate (ft)	Leachate Elevation	Waste Base Elevation	Saturated Thickness (ft)
1/23/2025	41.62	1058.81	1044.1	14.71	1/23/2025	37.00	1075.37	1024.8	50.57	1/23/2025	68.23	1039.58	1023.7	15.88
2/20/2025	42.50	1057.93	1044.1	13.83	2/20/2025	36.61	1075.76	1024.8	50.96	2/20/2025	68.32	1039.49	1023.7	15.79
3/24/2025	34.97	1065.46	1044.1	21.36	3/24/2025	37.25	1075.12	1024.8	50.32	3/24/2025	68.00	1039.81	1023.7	16.11
4/28/2025	38.41	1062.02	1044.1	17.92	4/28/2025	36.63	1075.74	1024.8	50.94	4/28/2025	68.01	1039.80	1023.7	16.10
5/12/2025	39.82	1060.61	1044.1	16.51	5/12/2025	36.66	1075.71	1024.8	50.91	5/12/2025	68.05	1039.76	1023.7	16.06
6/6/2025	40.99	1059.44	1044.1	15.34	6/6/2025	35.85	1076.52	1024.8	51.72	6/6/2025	68.13	1039.68	1023.7	15.98
7/8/2025	39.80	1060.63	1044.1	16.53	7/8/2025	33.43	1078.94	1024.8	54.14	7/8/2025	68.15	1039.66	1023.7	15.96
8/7/2025	39.35	1061.08	1044.1	16.98	8/7/2025	34.73	1077.64	1024.8	52.84	8/7/2025	67.26	1040.55	1023.7	16.85
9/9/2025	41.26	1059.17	1044.1	15.07	9/9/2025	35.91	1076.46	1024.8	51.66	9/9/2025	65.74	1042.07	1023.7	18.37
10/8/2025	41.23	1059.20	1044.1	15.10	10/8/2025	34.48	1077.89	1024.8	53.09	10/8/2025	65.39	1042.42	1023.7	18.72
11/13/2025	43.23	1057.20	1044.1	13.10	11/13/2025	36.46	1075.91	1024.8	51.11	11/13/2025	66.82	1040.99	1023.7	17.29
12/15/2025	40.05	1060.38	1044.1	16.28	12/15/2025	36.95	1075.42	1024.8	50.62	12/15/2025	67.58	1040.23	1023.7	16.53

Table 12
Leachate Level Measurements
Annual Water Quality Report
Boone County Sanitary Landfill
Permit Number 08-SDP-01-75P

Well/TOC LPZ-8A 1077.19 Boone Co SLF					Well/TOC LPZ-9 1089.5 Jan 03 1094.55 Boone Co SLF					Well/TOC LPZ-12 1076.88 Boone Co SLF				
Date	Depth to Leachate (ft)	Leachate Elevation	Waste Base Elevation	Saturated Thickness (ft)	Date	Depth to Leachate (ft)	Leachate Elevation	Waste Base Elevation	Saturated Thickness (ft)	Date	Depth to Leachate (ft)	Leachate Elevation	Waste Base Elevation	Saturated Thickness (ft)
1/23/2025	44.33	1032.86	995.12	37.74	1/23/2025	29.67	1064.88	1021.30	43.58	1/23/2025	23.30	1053.58	1047	6.58
2/20/2025	45.25	1031.94	995.12	36.82	2/20/2025	30.05	1064.50	1021.30	43.20	2/20/2025	23.80	1053.08	1047	6.08
3/24/2025	45.35	1031.84	995.12	36.72	3/24/2025	29.01	1065.54	1021.30	44.24	3/24/2025	22.65	1054.23	1047	7.23
4/28/2025	45.88	1031.31	995.12	36.19	4/28/2025	28.93	1065.62	1021.30	44.32	4/28/2025	22.32	1054.56	1047	7.56
5/12/2025	41.80	1035.39	995.12	40.27	5/12/2025	29.05	1065.50	1021.30	44.20	5/12/2025	23.03	1053.85	1047	6.85
6/6/2025	46.16	1031.03	995.12	35.91	6/6/2025	29.04	1065.51	1021.30	44.21	6/6/2025	22.90	1053.98	1047	6.98
7/8/2025	45.57	1031.62	995.12	36.50	7/8/2025	28.82	1065.73	1021.30	44.43	7/8/2025	22.93	1053.95	1047	6.95
8/7/2025	46.19	1031.00	995.12	35.88	8/7/2025	28.77	1065.78	1021.30	44.48	8/7/2025	22.92	1053.96	1047	6.96
9/9/2025	46.35	1030.84	995.12	35.72	9/9/2025	28.93	1065.62	1021.30	44.32	9/9/2025	23.65	1053.23	1047	6.23
10/8/2025	41.80	1035.39	995.12	40.27	10/8/2025	29.41	1065.14	1021.30	43.84	10/8/2025	24.07	1052.81	1047	5.81
11/13/2025	46.80	1030.39	995.12	35.27	11/13/2025	29.38	1065.17	1021.30	43.87	11/13/2025	23.97	1052.91	1047	5.91
12/15/2025	46.00	1031.19	995.12	36.07	12/15/2025	29.37	1065.18	1021.30	43.88	12/15/2025	23.66	1053.22	1047	6.22

Table 12
Leachate Level Measurements
Annual Water Quality Report
Boone County Sanitary Landfill
Permit Number 08-SDP-01-75P

Well/TOC LPZ-13C 1095 Boone Co SLF					Well/TOC LPZ-14 Boone Co SLF					Well/TOC LPZ-15 Boone Co SLF				
Sept 14 1091.63					Sept 14 1088.47									
Date	Depth to Leachate (ft)	Leachate Elevation	Waste Base Elevation	Saturated Thickness (ft)	Date	Depth to Leachate (ft)	Leachate Elevation	Waste Base Elevation	Saturated Thickness (ft)	Date	Depth to Leachate (ft)	Leachate Elevation	Waste Base Elevation	Saturated Thickness (ft)
1/23/2025	29.40	1065.60	1049.88	15.72	1/23/2025	36.75	1054.88	1046.4	8.48	1/23/2025	34.28	1054.19	1045.3	8.89
2/20/2025	29.63	1065.37	1049.88	15.49	2/20/2025	37.12	1054.51	1046.4	8.11	2/20/2025	34.25	1054.22	1045.3	8.92
3/24/2025	28.95	1066.05	1049.88	16.17	3/24/2025	34.05	1057.58	1046.4	11.18	3/24/2025	33.60	1054.87	1045.3	9.57
4/28/2025	28.94	1066.06	1049.88	16.18	4/28/2025	33.54	1058.09	1046.4	11.69	4/28/2025	33.71	1054.76	1045.3	9.46
5/12/2025	28.95	1066.05	1049.88	16.17	5/12/2025	36.15	1055.48	1046.4	9.08	5/12/2025	33.65	1054.82	1045.3	9.52
6/6/2025	29.05	1065.95	1049.88	16.07	6/6/2025	36.65	1054.98	1046.4	8.58	6/6/2025	34.00	1054.47	1045.3	9.17
7/8/2025	28.80	1066.20	1049.88	16.32	7/8/2025	36.08	1055.55	1046.4	9.15	7/8/2025	33.85	1054.62	1045.3	9.32
8/7/2025	28.90	1066.10	1049.88	16.22	8/7/2025	35.75	1055.88	1046.4	9.48	8/7/2025	33.83	1054.64	1045.3	9.34
9/9/2025	28.80	1066.20	1049.88	16.32	9/9/2025	36.45	1055.18	1046.4	8.78	9/9/2025	33.94	1054.53	1045.3	9.23
10/8/2025	29.00	1066.00	1049.88	16.12	10/8/2025	36.75	1054.88	1046.4	8.48	10/8/2025	34.30	1054.17	1045.3	8.87
11/13/2025	28.78	1066.22	1049.88	16.34	11/13/2025	36.70	1054.93	1046.4	8.53	11/13/2025	34.42	1054.05	1045.3	8.75
12/15/2025	29.09	1065.91	1049.88	16.03	12/15/2025	NM*	----	1046.4	----	12/15/2025	34.20	1054.27	1045.3	8.97

* Broken at ground level and could not be measured

Table 12
Leachate Level Measurements
Annual Water Quality Report
Boone County Sanitary Landfill
Permit Number 08-SDP-01-75P

Well/TOC LPZ-17 Boone Co SLF					EW-1 1107.82 Boone Co SLF					Well/TOC EW-2 1110.92 Boone Co SLF				
Oct 21 973.5														
Aug 23 ⁽¹⁾ 973.8														
Date	Depth to Leachate (ft)	Leachate Elevation	Waste Base Elevation	Saturated Thickness (ft)	Date	Depth to Leachate (ft)	Leachate Elevation	Waste Base Elevation	Saturated Thickness (ft)	Date	Depth to Leachate (ft)	Leachate Elevation	Waste Base Elevation	Saturated Thickness (ft)
1/23/2025	8.22	965.58	965.5	0.08	1/23/2025	77.38	1030.44	1026	4.44	1/23/2025	78.95	1031.97	1029	2.97
2/20/2025	8.22	965.58	965.5	0.08	2/20/2025	77.25	1030.57	1026	4.57	2/20/2025	79.15	1031.77	1029	2.77
3/24/2025	8.00	965.80	965.5	0.30	3/24/2025	77.65	1030.17	1026	4.17	3/24/2025	79.10	1031.82	1029	2.82
4/28/2025	8.16	965.64	965.5	0.14	4/28/2025	76.20	1031.62	1026	5.62	4/28/2025	79.06	1031.86	1029	2.86
5/12/2025	8.20	965.60	965.5	0.10	5/12/2025	76.65	1031.17	1026	5.17	5/12/2025	79.47	1031.45	1029	2.45
6/6/2025	8.25	965.55	965.5	0.05	6/6/2025	77.10	1030.72	1026	4.72	6/6/2025	79.79	1031.13	1029	2.13
7/8/2025	8.23	965.57	965.5	0.07	7/8/2025	77.32	1030.50	1026	4.50	7/8/2025	79.00	1031.92	1029	2.92
8/7/2025	8.21	965.59	965.5	0.09	8/7/2025	68.09	1039.73	1026	13.73	8/7/2025	79.20	1031.72	1029	2.72
9/9/2025	8.15	965.65	965.5	0.15	9/9/2025	79.16	1028.66	1026	2.66	9/9/2025	79.45	1031.47	1029	2.47
10/8/2025	8.30	965.50	965.5	0.00	10/8/2025	77.28	1030.54	1026	4.54	10/8/2025	71.49	1039.43	1029	10.43
11/13/2025	8.30	965.50	965.5	0.00	11/13/2025	76.87	1030.95	1026	4.95	11/13/2025	79.06	1031.86	1029	2.86
12/15/2025	8.30	965.50	965.5	0.00	12/15/2025	76.70	1031.12	1026	5.12	12/15/2025	79.64	1031.28	1029	2.28

(1) LPZ-17 repaired on August 29, 2023

Table 13 – Gas Monitoring Summary

Table 13
Explosive Gas Monitoring
Annual Water Quality Report
Boone County Sanitary Landfill
Permit Number 08-SDP-01-75P

January 23, 2025

Reference* Location	Combustible % LEL
<u>Subsurface</u>	
GP-1	0
GP-2 - Manhole	0
GP-3 - Manhole	0
GP-4	70.8
GP-5	0
GP-6	0
GP-7	0
GP-8	0
GU-3	0
GU-4	0
Scale Pit	0
GWD-1 Manhole	26.9
<u>Breathing Zone</u>	
New Shop/Maintenance	0
Scale Pit	0
Scale House	0
Shop 1 - Attached	0
Shop 2 - cold storage	0

June 6, 2025

Reference* Location	Combustible % LEL
<u>Subsurface</u>	
GP-1	0
GP-2 - Manhole	0
GP-3 - Manhole	0
GP-4	35.8
GP-5	0
GP-6	0
GP-7	0
GP-8	0
GU-3	0
GU-4	0
Scale Pit	0
GWD-1 Manhole	87
<u>Breathing Zone</u>	
New Shop/Maintenance	0
Scale Pit	0
Scale House	0
Shop 1 - Attached	0
Shop 2 - cold storage	0

September 9, 2025

Reference* Location	Combustible % LEL
<u>Subsurface</u>	
GP-1	0
GP-2 - Manhole	0
GP-3 - Manhole	0
GP-4	83.9
GP-5	0
GP-6	0
GP-7	0
GP-8	0
GU-3	NT*
GU-4	0
Scale Pit	0
GWD-1 Manhole	35.4
<u>Breathing Zone</u>	
New Shop/Maintenance	0
Scale Pit	0
Scale House	0
Shop 1 - Attached	0
Shop 2 - cold storage	0

December 15, 2025

Reference* Location	Combustible % LEL
<u>Subsurface</u>	
GP-1	0
GP-2 - Manhole	0
GP-3 - Manhole	0
GP-4	88.3
GP-5	0
GP-6	0
GP-7	0
GP-8	0
GU-3	0
GU-4	0
Scale Pit	0
GWD-1 Manhole	50
<u>Breathing Zone</u>	
New Shop/Maintenance	0
Scale Pit	0
Scale House	0
Shop 1 - Attached	0
Shop 2 - cold storage	0

* Buried

Appendix A

Field Sampling Forms

BOONE COUNTY SANITARY LANDFILL
PERMIT # 08-SDP-1-75P

3/24/2025

Sampled by: Glenn Hunter

Weather: Overcast, Calm, 30-54 degrees

IDNR Form 542-1322

Monitoring Well: MW88-2 (dg)

Primary Sampling Method:

No-Purge for Appendix I

Secondary Sampling Method:

Purge & Sample for all analytes beyond Appendix I

GENERAL INFORMATION

TOC	975.41
Well Depth	34.04
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	975.41
Well Depth	34.04
Top Screen	951.37
Bottom Screen	941.37
Bottom Well	941.37
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	28.00
Top sample	947.41
Bottom sample	943.41
Turbidity(NTU)	15.00

Date	Time	Water Level	Water Elevation	Notes
3/24/2025	11:40	21.06	954.35	

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		15.00
Appendix I	Metals	150	150		15.00
Appendix I	VOC	240	240		15.00
Full Appendix II	10 more containers	5620			
TSS	TSS	1000			
Supplemental	BEHP	1892			
Supplemental					
Total			400	0	

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

TOC	975.41	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	34.04	Before purging	3/24/2025	11:40	21.06	954.35	0	0.0	
		After purging				975.41			
		Top of Screen July 1988				951.37			
						24.04			feet above (+) or below (-) top screen
		Bottom of Well July 1988				941.37			
		Bottom of Well	3/24/2025		34.04	941.37			
						0.00			feet sedimentation
		Before Sampling				975.41			
		Recovery				975.41			
		Recovery				975.41			
		Recovery				975.41			
		Recovery				975.41			

IDNR Form 542-1322

Monitoring Well: MW88-3 (dg)

Primary Sampling Method:
Secondary Sampling Method:

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

GENERAL INFORMATION

TOC	952.93
Well Depth	27.50
Capped	YES
Standing Water	NO
Litter	NO
Level Tape	Solinst 101
NTU Meter	Hach 2100P
No-Purge Equipment -	Solinst 429
Purge Equipment -	Waterra

NO PURGE METHOD

TOC	952.93
Well Depth	27.50
Top Screen	936.20
Bottom Screen	925.70
Bottom Well	925.70
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	21.00
Top sample	931.93
Bottom sample	927.93
Turbidity(NTU)	2.04

Date	Time	Water Level	Water Elevation	Notes
3/24/2025	11:15	10.49	942.44	

ANALYTES, CONTAINERS, AND VOLUMES

Analyte		Required Volume (mL)	Volume Collected No-Purge (mL)	Volume Collected Purge & Sample (mL)	Turbidity this Container (NTU)
All	Field NTU	10	10		2.04
Appendix I	Metals	150	150		2.04
Appendix I	VOC	240	240		2.04
Full Appendix II	10 more containers	5620			
TSS	TSS	1000			
Supplemental	BEHP	946			
Supplemental					
Total			400	0	

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

TOC	952.93	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	27.50	Before purging	3/24/2025	11:15	10.49	942.44		0.0	
		After purging				952.93			
		Top of Screen July 1988				936.20			
						16.73			feet above (+) or below (-) top screen
		Bottom of Well July 1988				925.70			
		Bottom of Well	3/24/2025		27.50	925.43			
						-0.27			feet sedimentation
		Before Sampling				952.93			
		Recovery				952.93			
		Recovery				952.93			
		Recovery				952.93			
		Recovery				952.93			

IDNR Form 542-1322

Monitoring Well: MW91-8 (dg)

Primary Sampling Method:
Secondary Sampling Method:

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

GENERAL INFORMATION

TOC	1061.12
Well Depth	20.82
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	1061.12
Well Depth	20.00
Top Screen	1050.30
Bottom Screen	1040.30
Bottom Well	1040.30
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	14.00
Top sample	1047.12
Bottom sample	1043.12
Turbidity(NTU)	0.49

Date	Time	Water Level	Water Elevation	Notes
3/24/2025	14:39	4.23	1056.89	

ANALYTES, CONTAINERS, AND VOLUMES

Analyte		Required Volume (mL)	Volume Collected No-Purge (mL)	Volume Collected Purge & Sample (mL)	Turbidity this Container (NTU)
All	Field NTU	10	10		0.49
Appendix I	Metals	150	150		0.49
Appendix I	VOC	240	240		0.49
Full Appendix II	10 more containers	5620			
TSS	TSS	1000			
Supplemental	BEHP	946			
Supplemental					
Total			400	0	

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

TOC	1061.12	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	20.82	Before purging	3/24/2025	14:39	4.23	1056.89		0.0	
		After purging				1061.12			
		Top of Screen December 1991				1050.30			
						10.82			feet above (+) or below (-) top screen
		Bottom of Well December 1991				1040.30			
		Bottom of Well	3/24/2025		20.00	1041.12			
						0.82			feet sedimentation
		Before Sampling				1061.12			
		Recovery				1061.12			
		Recovery				1061.12			
		Recovery				1061.12			
		Recovery				1061.12			

IDNR Form 542-1322

Monitoring Well: MW91-10 (dg)

Primary Sampling Method:
Secondary Sampling Method:

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

GENERAL INFORMATION

TOC	1056.58
Well Depth	20.08
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	1056.58
Well Depth	20.00
Top Screen	1046.50
Bottom Screen	1036.50
Bottom Well	1036.50
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	14.00
Top sample	1042.58
Bottom sample	1038.58
Turbidity(NTU)	1.69

Date	Time	Water Level	Water Elevation	Notes
3/24/2025	9:40	10.51	1046.07	

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		1.69
Appendix I	Metals	150	150		1.69
Appendix I	VOC	240	240		1.69
Full Appendix II	10 more containers	5620			
TSS	TSS	1000			
Supplemental	BEHP	946			
Supplemental					
Total			400	0	

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

TOC	1056.58	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	20.08	Before purging	3/24/2025	9:40	10.51	1046.07		0.0	
		After purging				1056.58			
		Top of Screen December 1991				1046.50			
						10.08			feet above (+) or below (-) top screen
		Bottom of Well December 1991				1036.50			
		Bottom of Well	3/24/2025		20.00	1036.58			
						0.08			feet sedimentation
		Before Sampling				1056.58			
		Recovery				1056.58			
		Recovery				1056.58			
		Recovery				1056.58			
		Recovery				1056.58			

IDNR Form 542-1322

Monitoring Well: MW94-18 (dg)

Primary Sampling Method:
Secondary Sampling Method:

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

GENERAL INFORMATION

TOC	1058.75
Well Depth	20.58
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	1058.75
Well Depth	20.10
Top Screen	1046.50
Bottom Screen	1038.65
Bottom Well	1038.65
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	14.00
Top sample	1044.75
Bottom sample	1040.75
Turbidity(NTU)	7.21

Date	Time	Water Level	Water Elevation	Notes
3/24/2025	8:50	8.73	1050.02	

ANALYTES, CONTAINERS, AND VOLUMES

Analyte		Required Volume (mL)	Volume Collected No-Purge (mL)	Volume Collected Purge & Sample (mL)	Turbidity this Container (NTU)
All	Field NTU	10	10		7.21
Appendix I	Metals	150	150		7.21
Appendix I	VOC	240	240		7.21
Full Appendix II	10 more containers	5620			
TSS	TSS	1000			
Supplemental	BEHP	946			
Supplemental					
Total			400	0	

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

TOC	1058.75	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	20.58	Before purging	3/24/2025	8:50	8.73	1050.02		0.0	
		After purging				1058.75			
		Top of Screen March 1994				1046.50			
						12.25			feet above (+) or below (-) top screen
		Bottom of Well March 1994				1038.17			
		Bottom of Well	3/24/2025		20.10	1038.65			
						0.48			feet sedimentation
		Before Sampling				1058.75			
		Recovery				1058.75			
		Recovery				1058.75			
		Recovery				1058.75			
		Recovery				1058.75			

IDNR Form 542-1322

Monitoring Well: MW96-21 (dg)

Primary Sampling Method:
Secondary Sampling Method:

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

GENERAL INFORMATION

TOC	1010.96
Well Depth	102.70
Capped	YES
Standing Water	NO
Litter	NO
Level Tape	Solinst 101
NTU Meter	Hach 2100P
No-Purge Equipment -	Solinst 429
Purge Equipment -	Waterra

NO PURGE METHOD

TOC	1010.96
Well Depth	102.70
Top Screen	933.26
Bottom Screen	908.26
Bottom Well	908.26
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	94.00
Top sample	916.96
Bottom sample	912.96
Turbidity(NTU)	35.10

Date	Time	Water Level	Water Elevation	Notes
3/24/2025	10:02	88	922.96	

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		35.10
Appendix I	Metals	150	150		35.10
Appendix I	VOC	240	240		35.10
Full Appendix II	10 more containers	5620	5620		
TSS	TSS	1000			
Supplemental	BEHP	946			
Supplemental					
Total			6020	0	

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

TOC	1010.96	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	102.70	Before purging	3/24/2025	10:02	88.00	922.96		0.0	
		After purging				1010.96			
		Top of Screen December 1996				933.26			
						77.70			feet above (+) or below (-) top screen
		Bottom of Well December 1996				908.26			
		Bottom of Well	3/24/2025		101.20	909.76			
						1.50			feet sedimentation
		Before Sampling				1010.96			
		Recovery				1010.96			No significant draw down
		Recovery				1010.96			
		Recovery				1010.96			
		Recovery				1010.96			

IDNR Form 542-1322

Monitoring Well: MW96-23 (dg)

Primary Sampling Method:
Secondary Sampling Method:

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

GENERAL INFORMATION

TOC	1007.53
Well Depth	67.59
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	1007.53
Well Depth	66.00
Top Screen	949.74
Bottom Screen	939.74
Bottom Well	939.74
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	60.00
Top sample	947.53
Bottom sample	943.53
Turbidity(NTU)	4.20

Date	Time	Water Level	Water Elevation	Notes
3/24/2025	10:43	51.2	956.33	

ANALYTES, CONTAINERS, AND VOLUMES

Analyte		Required Volume (mL)	Volume Collected No-Purge (mL)	Volume Collected Purge & Sample (mL)	Turbidity this Container (NTU)
All	Field NTU	10	10		4.20
Appendix I	Metals	150	150		4.20
Appendix I	VOC	240	240		4.20
Full Appendix II	10 more containers	5620			
TSS	TSS	1000			
Supplemental	BEHP	946			
Supplemental					
Total			400	0	

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

TOC	1007.53	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	67.59	Before purging	3/24/2025	10:43	51.2	956.33		0.0	
		After purging				1007.53			
		Top of Screen December 1996				949.74			
						57.79			feet above (+) or below (-) top screen
		Bottom of Well December 1996				939.74			
		Bottom of Well	3/24/2025		66.00	941.53			
						1.79			feet sedimentation
		Before Sampling				1007.53			
		Recovery				1007.53			
		Recovery				1007.53			
		Recovery				1007.53			
		Recovery				1007.53			

IDNR Form 542-1322

Monitoring Well: MW96-24 (dg)

Primary Sampling Method:
Secondary Sampling Method:

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

GENERAL INFORMATION

TOC	988.56
Well Depth	77.62
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	988.56
Well Depth	74.40
Top Screen	920.94
Bottom Screen	910.94
Bottom Well	910.94
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	66.00
Top sample	922.56
Bottom sample	918.56
Turbidity(NTU)	8.02

Date	Time	Water Level	Water Elevation	Notes
3/24/2025	10:25	65.12	923.44	

ANALYTES, CONTAINERS, AND VOLUMES

Analyte		Required Volume (mL)	Volume Collected No-Purge (mL)	Volume Collected Purge & Sample (mL)	Turbidity this Container (NTU)
All	Field NTU	10	10		8.02
Appendix I	Metals	150	150		8.02
Appendix I	VOC	240	240		8.02
Full Appendix II	10 more containers	5620			
TSS	TSS	1000			
Supplemental	BEHP	946			
Supplemental					
Total			400	0	

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

TOC	988.56	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	77.62	Before purging	3/24/2025	10:25	65.12	923.44		0.0	
		After purging				988.56			
		Top of Screen December 1996				920.94			
						67.62			feet above (+) or below (-) top screen
		Bottom of Well December 1996				910.94			
		Bottom of Well	3/24/2025		74.40	914.16			
						3.22			feet sedimentation
		Before Sampling				988.56			
		Recovery				988.56			
		Recovery				988.56			
		Recovery				988.56			
		Recovery				988.56			

IDNR Form 542-1322

Monitoring Well: MW98-25 (dg)

Primary Sampling Method:
Secondary Sampling Method:

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

GENERAL INFORMATION

TOC	1059.38
Well Depth	19.40
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	1059.38
Well Depth	19.00
Top Screen	1050.48
Bottom Screen	1039.98
Bottom Well	1039.98
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	13.00
Top sample	13.50
Bottom sample	9.50
Turbidity(NTU)	95.00

Date	Time	Water Level	Water Elevation	Notes
3/24/2025	13:38	5.25	1054.13	

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		95.00
Appendix I	Metals	150	150		95.00
Appendix I	VOC	240	240		95.00
Full Appendix II	10 more containers	5620			
TSS	TSS	1000			
Supplemental	BEHP	946			
Supplemental	beta-BHC	946			
Total			400	0	

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

TOC	1059.38	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	19.40	Before purging	3/24/2025	13:38	5.25	1054.13		0.0	
		After purging				1059.38			
		Top of Screen February 1998				1050.48			
						8.90			feet above (+) or below (-) top screen
		Bottom of Well February 1998				1039.98			
		Bottom of Well	3/24/2025		19.00	1040.38			
						0.40			feet sedimentation
		Before Sampling				1059.38			
		Recovery				1059.38			
		Recovery				1059.38			
		Recovery				1059.38			
		Recovery				1059.38			

IDNR Form 542-1322

Monitoring Well: MW98-28 (ug)

Primary Sampling Method:
Secondary Sampling Method:

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

GENERAL INFORMATION

TOC	1052.51
Well Depth	152.27
Capped	YES
Standing Water	NO
Litter	NO
Level Tape	Solinst 101
NTU Meter	Hach 2100P
No-Purge Equipment -	Solinst 429
Purge Equipment -	Waterra

NO PURGE METHOD

TOC	1052.51
Well Depth	148.80
Top Screen	925.24
Bottom Screen	900.24
Bottom Well	900.24
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	140.00
Top sample	912.51
Bottom sample	908.51
Turbidity(NTU)	61.20

Date	Time	Water Level	Water Elevation	Notes
3/24/2025	8:14	125	927.51	

ANALYTES, CONTAINERS, AND VOLUMES

Analyte		Required Volume (mL)	Volume Collected No-Purge (mL)	Volume Collected Purge & Sample (mL)	Turbidity this Container (NTU)
All	Field NTU	10	10		61.20
Appendix I	Metals	150	150		61.20
Appendix I	VOC	240	240		61.20
Full Appendix II	10 more containers	5620			
TSS	TSS	1000			
Supplemental	BEHP	946			
Supplemental	beta-BHC	946			
Total			400	0	

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

TOC	1052.51	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	152.27	Before purging	3/24/2025	8:14	125	927.51		0.0	
		After purging				1052.51			
		Top of Screen December 1998				925.24			
						127.27			feet above (+) or below (-) top screen
		Bottom of Well December 1998				900.24			
		Bottom of Well	3/24/2025		148.80	903.71			
						3.47			feet sedimentation
		Before Sampling				1052.51			
		Recovery				1052.51			
		Recovery				1052.51			
		Recovery				1052.51			
		Recovery				1052.51			

IDNR Form 542-1322

Monitoring Well: MW98-29A (ug)

Primary Sampling Method:
Secondary Sampling Method:

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

GENERAL INFORMATION

TOC	1088.8
Well Depth	68.00
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	1088.8
Well Depth	68.00
Top Screen	1035.70
Bottom Screen	1020.70
Bottom Well	1020.20
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	
Top sample	1088.80
Bottom sample	1084.80
Turbidity(NTU)	

Date	Time	Water Level	Water Elevation	Notes
3/24/2025		28.65	1060.15	WL ONLY

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		
Appendix I	Metals	150	150		
Appendix I	VOC	240	240		
Full Appendix II	10 more containers	5620			
TSS	TSS	1000			
Supplemental	BEHP	946			
Supplemental	beta-BHC	946			
Total			400		

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

TOC	1088.8	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	68.00	Before purging				1088.80		0.0	no
		After purging				1088.80			
		Top of Screen December 1998				1035.70			
						53.10			feet above (+) or below (-) top screen
		Bottom of Well December 1998				1020.70			
		Bottom of Well				1088.80			
						68.10			feet sedimentation
		Recovery				1088.80			
		Recovery				1088.80			
		Recovery				1088.80			
		Recovery				1088.80			
		Before Sampling				1088.80			

IDNR Form 542-1322

Monitoring Well: MW98-30A (ug)

Primary Sampling Method:
Secondary Sampling Method:

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

GENERAL INFORMATION

TOC	1088.65
Well Depth	116.40
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	1088.65
Well Depth	116.40
Top Screen	992.25
Bottom Screen	972.25
Bottom Well	971.37
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	111.00
Top sample	977.65
Bottom sample	973.65
Turbidity(NTU)	6.48

Date	Time	Water Level	Water Elevation	Notes
3/24/2025	12:57	31.65	1057	

ANALYTES, CONTAINERS, AND VOLUMES

Analyte		Required Volume (mL)	Volume Collected No-Purge (mL)	Volume Collected Purge & Sample (mL)	Turbidity this Container (NTU)
All	Field NTU	10	10		6.48
Appendix I	Metals	150	150		6.48
Appendix I	VOC	240	240		6.48
Full Appendix II	10 more containers	5620			
TSS	TSS	1000			
Supplemental	BEHP	946			
Supplemental	beta-BHC	946			
Total			400	0	

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

TOC	1088.65	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	116.40	Before purging	3/24/2025	12:57	31.65	1057.00		0.0	
		After purging				1088.65			
		Top of Screen December 1998				992.25			
						96.40			feet above (+) or below (-) top screen
		Bottom of Well December 1998				972.25			
		Bottom of Well	3/24/2025		117.80	971.00			
						-1.25			feet sedimentation
		Before Sampling				1088.65			
		Recovery				1088.65			
		Recovery				1088.65			
		Recovery				1088.65			
		Recovery				1088.65			

IDNR Form 542-1322

Monitoring Well: MW02-15A (ug)

Primary Sampling Method:
Secondary Sampling Method:

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

GENERAL INFORMATION

TOC	1105.82
Well Depth	62.25
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	1105.82
Well Depth	62.60
Top Screen	1053.51
Bottom Screen	1043.51
Bottom Well	1043.51
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	56.00
Top sample	1049.82
Bottom sample	1045.82
Turbidity(NTU)	3.39

Date	Time	Water Level	Water Elevation	Notes
3/24/2025	13:10	43.3	1062.52	

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		3.39
Appendix I	Metals	150	150		3.39
Appendix I	VOC	240	240		3.39
Full Appendix II	10 more containers	5620			
TSS	TSS	1000			
Supplemental	BEHP	946			
Supplemental	beta-BHC	946			
Total			400	0	

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

TOC	1105.82	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	62.25	Before purging	3/24/2025	13:10	43.3	1062.52		0.0	
		After purging				1105.82			
		Top of Screen June 2002				1053.51			
						52.31			feet above (+) or below (-) top screen
		Bottom of Well June 2002				1043.51			
		Bottom of Well	3/24/2025		62.60	1043.22			
						-0.29			feet sedimentation
		Before Sampling				1105.82			
		Recovery				1105.82			
		Recovery				1105.82			
		Recovery				1105.82			
		Recovery				1105.82			

IDNR Form 542-1322

Monitoring Well: MW06-37 (dg)

Primary Sampling Method:
Secondary Sampling Method:

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

GENERAL INFORMATION

TOC	1060.75
Well Depth	22.85
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	1060.75
Well Depth	22.60
Top Screen	1047.90
Bottom Screen	1037.90
Bottom Well	1037.90
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	16.00
Top sample	1044.75
Bottom sample	1040.75
Turbidity(NTU)	0.50

Date	Time	Water Level	Water Elevation	Notes
3/24/2025	14:24	6.5	1054.25	

ANALYTES, CONTAINERS, AND VOLUMES

Analyte		Required Volume (mL)	Volume Collected No-Purge (mL)	Volume Collected Purge & Sample (mL)	Turbidity this Container (NTU)
All	Field NTU	10	10		0.50
Appendix I	Metals	150	150		0.50
Appendix I	VOC	240	240		0.50
Full Appendix II	10 more containers	5620			
TSS	TSS	1000			
Supplemental	BEHP	946			
Supplemental	beta-BHC	946			
Total			400	0	

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

TOC	1060.75	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	22.85	Before purging	3/24/2025	14:24	6.5	1054.25		0.0	
		After purging				1060.75			
		Top of Screen February 2006				1047.90			
						12.85			feet above (+) or below (-) top screen
		Bottom of Well February 2006				1037.90			
		Bottom of Well	3/24/2025		22.60	1038.15			
						0.25			feet sedimentation
		Before Sampling				1060.75			
		Recovery				1060.75			
		Recovery				1060.75			
		Recovery				1060.75			
		Recovery				1060.75			

IDNR Form 542-1322

Monitoring Well: MW06-38 (dg)

Primary Sampling Method:
Secondary Sampling Method:

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

GENERAL INFORMATION

TOC	1061.53
Well Depth	22.92
Capped	YES
Standing Water	NO
Litter	NO
Level Tape	Solinst 101
NTU Meter	Hach 2100P
No-Purge Equipment -	Solinst 429
Purge Equipment -	Waterra

NO PURGE METHOD

TOC	1061.53
Well Depth	16.65
Top Screen	1047.90
Bottom Screen	1037.90
Bottom Well	1037.90
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	16.00
Top sample	1045.53
Bottom sample	1041.53
Turbidity(NTU)	1.01

Date	Time	Water Level	Water Elevation	Notes
3/24/2025	14:14	6.19	1055.34	

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		1.01
Appendix I	Metals	150	150		1.01
Appendix I	VOC	240	240		1.01
Full Appendix II	10 more containers	5620			
TSS	TSS	1000			
Supplemental	BEHP	946			
Supplemental	beta-BHC	946			
Total			400	0	

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

TOC	1061.53	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	22.92	Before purging	3/24/2025	14:14	6.19	1055.34		0.0	
		After purging				1061.53			
		Top of Screen February 2006				1048.61			
						12.92			feet above (+) or below (-) top screen
		Bottom of Well February 2006				1038.61			
		Bottom of Well	3/24/2025		22.50	1039.03			
						0.42			feet sedimentation
		Before Sampling				1061.53			
		Recovery				1061.53			
		Recovery				1061.53			
		Recovery				1061.53			
		Recovery				1061.53			

IDNR Form 542-1322

Monitoring Well: MW06-39 (dg)

Primary Sampling Method:
Secondary Sampling Method:

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

GENERAL INFORMATION

TOC	1060.78
Well Depth	27.83
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	1060.78
Well Depth	27.50
Top Screen	1047.95
Bottom Screen	1032.95
Bottom Well	1032.95
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	21.00
Top sample	1039.78
Bottom sample	1035.78
Turbidity(NTU)	2.58

Date	Time	Water Level	Water Elevation	Notes
3/24/2025	14:04	4.95	1055.83	

ANALYTES, CONTAINERS, AND VOLUMES

Analyte		Required Volume (mL)	Volume Collected No-Purge (mL)	Volume Collected Purge & Sample (mL)	Turbidity this Container (NTU)
All	Field NTU	10	10		2.58
Appendix I	Metals	150	150		2.58
Appendix I	VOC	240	240		2.58
Full Appendix II	10 more containers	5620			
TSS	TSS	1000			
Supplemental	BEHP	946			
Supplemental	beta-BHC	946			
Total			400	0	

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

TOC	1060.78	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	27.83	Before purging	3/24/2025	14:04	4.95	1055.83		0.0	
		After purging				1060.78			
		Top of Screen February 2006				1047.95			
						12.83			feet above (+) or below (-) top screen
		Bottom of Well February 2006				1032.95			
		Bottom of Well	3/24/2025		27.50	1033.28			
						0.33			feet sedimentation
		Before Sampling				1060.78			
		Recovery				1060.78			
		Recovery				1060.78			
		Recovery				1060.78			
		Recovery				1060.78			

IDNR Form 542-1322

Monitoring Well: MW09-40 (dg)

Primary Sampling Method:
Secondary Sampling Method:

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

GENERAL INFORMATION

TOC	1056.5
Well Depth	20.00
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	1056.5
Well Depth	20.10
Top Screen	1046.50
Bottom Screen	1036.50
Bottom Well	1036.50
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	14.00
Top sample	1042.50
Bottom sample	1038.50
Turbidity(NTU)	5.89

Date	Time	Water Level	Water Elevation	Notes
3/24/2025	9:01	6.4	1050.1	

ANALYTES, CONTAINERS, AND VOLUMES

Analyte		Required Volume (mL)	Volume Collected No-Purge (mL)	Volume Collected Purge & Sample (mL)	Turbidity this Container (NTU)
All	Field NTU	10	10		5.89
Appendix I	Metals	150	150		5.89
Appendix I	VOC	240	240		5.89
Full Appendix II	10 more containers	5620			
TSS	TSS	1000			
Supplemental	BEHP	946			
Supplemental	beta-BHC	946			
Total			400	0	

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

TOC	1056.5	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	20.00	Before purging	3/24/2025	9:01	6.4	1050.10		0.0	
		After purging				1056.50			
		Top of Screen March 2009				1046.50			
						10.00			feet above (+) or below (-) top screen
		Bottom of Well March 2009				1036.50			
		Bottom of Well	3/24/2025		20.10	1036.40			
						-0.10			feet sedimentation
		Before Sampling				1056.50			
		Recovery				1056.50			
		Recovery				1056.50			
		Recovery				1056.50			
		Recovery				1056.50			

IDNR Form 542-1322

Monitoring Well: MW 21-43 (dg)

Primary Sampling Method:
Secondary Sampling Method:

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

GENERAL INFORMATION

TOC	978.29
Well Depth	30.25
Capped	YES
Standing Water	NO
Litter	NO
Level Tape	Solinst 101
NTU Meter	Hach 2100P
No-Purge Equipment -	Solinst 429
Purge Equipment -	Waterra

NO PURGE METHOD

TOC	978.29
Well Depth	30.25
Top Screen	958.04
Bottom Screen	948.04
Bottom Well	948.04
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	24.00
Top sample	954.29
Bottom sample	950.29
Turbidity(NTU)	3.61

Date	Time	Water Level	Water Elevation	Notes
3/24/2025	12:35	21.77	956.52	

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		3.61
Appendix I	Metals	150	150		3.61
Appendix I	VOC	240	240		3.61
Full Appendix II	10 more containers	5620			
TSS	TSS	1000			
Supplemental	BEHP	946			
Supplemental	beta-BHC	946			
Total			400	0	

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

TOC	978.29	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	30.25	Before purging	3/24/2025	12:35	21.77	956.52		0.0	
		After purging				978.29			
		Top of Screen Dec 2021				958.04			
						20.25			feet above (+) or below (-) top screen
		Bottom of WellDec 2021				948.04			
		Bottom of Well	3/24/2025		30.25	948.04			
						0.00			feet sedimentation
		Before Sampling				978.29			
		Recovery				978.29			
		Recovery				978.29			
		Recovery				978.29			
		Recovery				978.29			

BOONE COUNTY SANITARY LANDFILL
PERMIT # 08-SDP-1-75P

3/24/2025

Sampled by: Glenn Hunter

Weather: Overcast, Calm, 30-54 degrees

IDNR Form 542-1324

GWD-1	Date	Time	Type	Flowing	Quantity		Discolored	Odor	Litter	
	3/24/2025		tile	dry	dry		No	No	No	
							pH	Conductivity	Temp.(C)	Turbidity (NTU)
							NT	NT	NT	NT

IDNR Form 542-1324

SRAMP 1	Date	Time	Type	Flowing	Quantity		Discolored	Odor	Litter	
	3/24/2025	13:49	pipe discharge	250 mL/10 sec			No	No	No	
							pH	Conductivity	Temp.(C)	Turbidity (NTU)
							NT	NT	NT	7.53

IDNR Form 542-1324

SRAMP 2	Date	Time	Type	Flowing	Quantity		Discolored	Odor	Litter	
	3/24/2025	10:59	tile	2 gpm			No	No	No	
							pH	Conductivity	Temp.(C)	Turbidity (NTU)
							NT	NT	NT	3.98

IDNR Form 542-1324

GU-3	Date	Time	Type	Flowing	Quantity		Discolored	Odor	Litter	
	3/24/2025	12:09	tile	yes	250 mL/30 sec		No	No	No	
							pH	DO	Temp.(C)	Turbidity (NTU)
							NT	NT	NT	6.02

IDNR Form 542-1324

GU-4	Date	Time	Type	Flowing	Quantity		Discolored	Odor	Litter	
	3/24/2025	11:57	tile	buried	250 mL/30 sec		No	No	No	
							pH	DO	Temp.(C)	Turbidity (NTU)
							NT	NT	NT	85.4

IDNR Form 542-1324

PEC-3	Date	Time	Type	Flowing	Quantity		Discolored	Odor	Litter	
	3/24/2025	12:21	channel	yes	250 mL/30 sec		No	No	No	
							pH	Conductivity	Temp.(C)	Turbidity (NTU)
							NT	NT	NT	NT

BOONE COUNTY SANITARY LANDFILL
PERMIT # 08-SDP-1-75P

9/9/2025

Sampled by: Todd Whipple

Weather: Overcast, Calm, 60-75 degrees

IDNR Form 542-1322

Monitoring Well: MW88-2 (dg)

Primary Sampling Method:

No-Purge for Appendix I

Secondary Sampling Method:

Purge & Sample for all analytes beyond Appendix I

GENERAL INFORMATION

TOC	975.41
Well Depth	34.04
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	975.41
Well Depth	34.04
Top Screen	951.37
Bottom Screen	941.37
Bottom Well	941.37
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	29.00
Top sample	946.41
Bottom sample	942.41
Turbidity(NTU)	24.60

Date	Time	Water Level	Water Elevation	Notes
9/9/2025	12:30	19.27	956.14	

ANALYTES, CONTAINERS, AND VOLUMES

Analyte		Required Volume (mL)	Volume Collected No-Purge (mL)	Volume Collected Purge & Sample (mL)	Turbidity this Container (NTU)
All	Field NTU	10	10		24.60
Appendix I	Metals	150	150		24.60
Appendix I	VOC	240	240		24.60
Full Appendix II	10 more containers	5620			
TSS	TSS	1000			
Supplemental	BEHP	1892			
Supplemental					
Total			400	0	

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

TOC	975.41	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	34.04	Before purging	9/9/2025	12:30	19.27	956.14	0	0.0	
		After purging				975.41			
		Top of Screen July 1988				951.37			
						24.04			feet above (+) or below (-) top screen
		Bottom of Well July 1988				941.37			
		Bottom of Well	9/9/2025		34.04	941.37			
						0.00			feet sedimentation
		Before Sampling				975.41			
		Recovery				975.41			
		Recovery				975.41			
		Recovery				975.41			
		Recovery				975.41			

IDNR Form 542-1322

Monitoring Well: MW88-3 (dg)

Primary Sampling Method:
Secondary Sampling Method:

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

GENERAL INFORMATION

TOC	952.93
Well Depth	27.50
Capped	YES
Standing Water	NO
Litter	NO
Level Tape	Solinst 101
NTU Meter	Hach 2100P
No-Purge Equipment -	Solinst 429
Purge Equipment -	Waterra

NO PURGE METHOD

TOC	952.93
Well Depth	27.50
Top Screen	936.20
Bottom Screen	925.70
Bottom Well	925.70
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	22.00
Top sample	930.93
Bottom sample	926.93
Turbidity(NTU)	3.35

Date	Time	Water Level	Water Elevation	Notes
9/9/2025	12:05	7.59	945.34	

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		3.35
Appendix I	Metals	150	150		3.35
Appendix I	VOC	240	240		3.35
Full Appendix II	10 more containers	5620			
TSS	TSS	1000			
Supplemental	BEHP	946			
Supplemental					
Total			400	0	

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

TOC	952.93	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	27.50	Before purging	9/9/2025	12:05	7.59	945.34		0.0	
		After purging				952.93			
		Top of Screen July 1988				936.20			
						16.73			feet above (+) or below (-) top screen
		Bottom of Well July 1988				925.70			
		Bottom of Well	9/9/2025		27.50	925.43			
						-0.27			feet sedimentation
		Before Sampling				952.93			
		Recovery				952.93			
		Recovery				952.93			
		Recovery				952.93			
		Recovery				952.93			

IDNR Form 542-1322

Monitoring Well: MW91-8 (dg)

Primary Sampling Method:
Secondary Sampling Method:

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

GENERAL INFORMATION

TOC	1061.12
Well Depth	20.82
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	1061.12
Well Depth	20.00
Top Screen	1050.30
Bottom Screen	1040.30
Bottom Well	1040.30
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	15.00
Top sample	1046.12
Bottom sample	1042.12
Turbidity(NTU)	0.95

Date	Time	Water Level	Water Elevation	Notes
9/9/2025	14:13	5.49	1055.63	

ANALYTES, CONTAINERS, AND VOLUMES

Analyte		Required Volume (mL)	Volume Collected No-Purge (mL)	Volume Collected Purge & Sample (mL)	Turbidity this Container (NTU)
All	Field NTU	10	10		0.95
Appendix I	Metals	150	150		0.95
Appendix I	VOC	240	240		0.95
Full Appendix II	10 more containers	5620			
TSS	TSS	1000			
Supplemental	BEHP	946			
Supplemental					
Total			400	0	

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

TOC	1061.12	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	20.82	Before purging	9/9/2025	14:13	5.49	1055.63		0.0	
		After purging				1061.12			
		Top of Screen December 1991				1050.30			
						10.82			feet above (+) or below (-) top screen
		Bottom of Well December 1991				1040.30			
		Bottom of Well	9/9/2025		20.00	1041.12			
						0.82			feet sedimentation
		Before Sampling				1061.12			
		Recovery				1061.12			
		Recovery				1061.12			
		Recovery				1061.12			
		Recovery				1061.12			

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Monitoring Well: MW91-10 (dg)

Primary Sampling Method:
Secondary Sampling Method:

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

GENERAL INFORMATION

TOC	1056.58
Well Depth	20.08
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	1056.58
Well Depth	20.00
Top Screen	1046.50
Bottom Screen	1036.50
Bottom Well	1036.50
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	14.00
Top sample	1042.58
Bottom sample	1038.58
Turbidity(NTU)	1.50

Date	Time	Water Level	Water Elevation	Notes
9/9/2025	10:10	11.30	1045.28	

ANALYTES, CONTAINERS, AND VOLUMES

Analyte		Required Volume (mL)	Volume Collected No-Purge (mL)	Volume Collected Purge & Sample (mL)	Turbidity this Container (NTU)
All	Field NTU	10	10		1.50
Appendix I	Metals	150	150		1.50
Appendix I	VOC	240	240		1.50
Full Appendix II	10 more containers	5620			
TSS	TSS	1000			
Supplemental	BEHP	946			
Supplemental					
Total			400	0	

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

TOC	1056.58	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	20.08	Before purging	9/9/2025	10:10	11.3	1045.28		0.0	
		After purging				1056.58			
		Top of Screen December 1991				1046.50			
						10.08			feet above (+) or below (-) top screen
		Bottom of Well December 1991				1036.50			
		Bottom of Well	9/9/2025		20.00	1036.58			
						0.08			feet sedimentation
		Before Sampling				1056.58			
		Recovery				1056.58			
		Recovery				1056.58			
		Recovery				1056.58			
		Recovery				1056.58			

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Monitoring Well: MW94-18 (dg)

Primary Sampling Method:
Secondary Sampling Method:

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

GENERAL INFORMATION

TOC	1058.75
Well Depth	20.58
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	1058.75
Well Depth	20.10
Top Screen	1046.50
Bottom Screen	1038.65
Bottom Well	1038.65
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	15.00
Top sample	1043.75
Bottom sample	1039.75
Turbidity(NTU)	2.54

Date	Time	Water Level	Water Elevation	Notes
9/9/2025	9:27	9.26	1049.49	

ANALYTES, CONTAINERS, AND VOLUMES

Analyte		Required Volume (mL)	Volume Collected No-Purge (mL)	Volume Collected Purge & Sample (mL)	Turbidity this Container (NTU)
All	Field NTU	10	10		2.54
Appendix I	Metals	150	150		2.54
Appendix I	VOC	240	240		2.54
Full Appendix II	10 more containers	5620			
TSS	TSS	1000			
Supplemental	BEHP	946			
Supplemental					
Total			400	0	

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

TOC	1058.75	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	20.58	Before purging	9/9/2025	9:27	9.26	1049.49		0.0	
		After purging				1058.75			
		Top of Screen March 1994				1046.50			
						12.25			feet above (+) or below (-) top screen
		Bottom of Well March 1994				1038.17			
		Bottom of Well	9/9/2025		20.10	1038.65			
						0.48			feet sedimentation
		Before Sampling				1058.75			
		Recovery				1058.75			
		Recovery				1058.75			
		Recovery				1058.75			
		Recovery				1058.75			

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Monitoring Well: MW96-21 (dg)

Primary Sampling Method:
Secondary Sampling Method:

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

GENERAL INFORMATION

TOC	1010.96
Well Depth	102.70
Capped	YES
Standing Water	NO
Litter	NO
Level Tape	Solinst 101
NTU Meter	Hach 2100P
No-Purge Equipment -	Solinst 429
Purge Equipment -	Waterra

NO PURGE METHOD

TOC	1010.96
Well Depth	102.70
Top Screen	933.26
Bottom Screen	908.26
Bottom Well	908.26
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	94.00
Top sample	916.96
Bottom sample	912.96
Turbidity(NTU)	52.33

Date	Time	Water Level	Water Elevation	Notes
9/9/2025	10:38	87.93	923.03	

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		52.33
Appendix I	Metals	150	150		52.33
Appendix I	VOC	240	240		52.33
Full Appendix II	10 more containers	5620	5620		
TSS	TSS	1000			
Supplemental	BEHP	946			
Supplemental					
Total			6020	0	

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

TOC	1010.96	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	102.70	Before purging	9/9/2025	10:38	87.93	923.03		0.0	
		After purging				1010.96			
		Top of Screen December 1996				933.26			
						77.70			feet above (+) or below (-) top screen
		Bottom of Well December 1996				908.26			
		Bottom of Well	9/9/2025		101.20	909.76			
						1.50			feet sedimentation
		Before Sampling				1010.96			
		Recovery				1010.96			No significant draw down
		Recovery				1010.96			
		Recovery				1010.96			
		Recovery				1010.96			

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Monitoring Well: MW96-23 (dg)

Primary Sampling Method:
Secondary Sampling Method:

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

GENERAL INFORMATION

TOC	1007.53
Well Depth	67.59
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	1007.53
Well Depth	66.00
Top Screen	949.74
Bottom Screen	939.74
Bottom Well	939.74
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	60.00
Top sample	947.53
Bottom sample	943.53
Turbidity(NTU)	3.12

Date	Time	Water Level	Water Elevation	Notes
9/9/2025	11:29	49.89	957.64	

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		3.12
Appendix I	Metals	150	150		3.12
Appendix I	VOC	240	240		3.12
Full Appendix II	10 more containers	5620			
TSS	TSS	1000			
Supplemental	BEHP	946			
Supplemental					
Total			400	0	

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

TOC	1007.53	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	67.59	Before purging	9/9/2025	11:29	49.89	957.64		0.0	
		After purging				1007.53			
		Top of Screen December 1996				949.74			
						57.79			feet above (+) or below (-) top screen
		Bottom of Well December 1996				939.74			
		Bottom of Well	9/9/2025		66.00	941.53			
						1.79			feet sedimentation
		Before Sampling				1007.53			
		Recovery				1007.53			
		Recovery				1007.53			
		Recovery				1007.53			
		Recovery				1007.53			

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Monitoring Well: MW96-24 (dg)

Primary Sampling Method:
Secondary Sampling Method:

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

GENERAL INFORMATION

TOC	988.56
Well Depth	77.62
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	988.56
Well Depth	74.40
Top Screen	920.94
Bottom Screen	910.94
Bottom Well	910.94
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	68.00
Top sample	920.56
Bottom sample	916.56
Turbidity(NTU)	4.42

Date	Time	Water Level	Water Elevation	Notes
9/9/2025	11:11	64.99	923.57	

ANALYTES, CONTAINERS, AND VOLUMES

Analyte		Required Volume (mL)	Volume Collected No-Purge (mL)	Volume Collected Purge & Sample (mL)	Turbidity this Container (NTU)
All	Field NTU	10	10		4.42
Appendix I	Metals	150	150		4.42
Appendix I	VOC	240	240		4.42
Full Appendix II	10 more containers	5620			
TSS	TSS	1000			
Supplemental	BEHP	946			
Supplemental					
Total			400	0	

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

TOC	988.56	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	77.62	Before purging	9/9/2025	11:11	64.99	923.57		0.0	
		After purging				988.56			
		Top of Screen December 1996				920.94			
						67.62			feet above (+) or below (-) top screen
		Bottom of Well December 1996				910.94			
		Bottom of Well	9/9/2025		74.40	914.16			
						3.22			feet sedimentation
		Before Sampling				988.56			
		Recovery				988.56			
		Recovery				988.56			
		Recovery				988.56			
		Recovery				988.56			

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Monitoring Well: MW98-25 (dg)

Primary Sampling Method:
Secondary Sampling Method:

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

GENERAL INFORMATION

TOC	1059.38
Well Depth	19.40
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	1059.38
Well Depth	19.00
Top Screen	1050.48
Bottom Screen	1039.98
Bottom Well	1039.98
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	14.00
Top sample	13.50
Bottom sample	9.50
Turbidity(NTU)	8.99

Date	Time	Water Level	Water Elevation	Notes
9/9/2025	8:45	6.38	1053	

ANALYTES, CONTAINERS, AND VOLUMES

Analyte		Required Volume (mL)	Volume Collected No-Purge (mL)	Volume Collected Purge & Sample (mL)	Turbidity this Container (NTU)
All	Field NTU	10	10		8.99
Appendix I	Metals	150	150		8.99
Appendix I	VOC	240	240		8.99
Full Appendix II	10 more containers	5620			
TSS	TSS	1000			
Supplemental	BEHP	946			
Supplemental	beta-BHC	946			
Total			400	0	

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

TOC	1059.38	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	19.40	Before purging	9/9/2025	8:45	6.38	1053.00		0.0	
		After purging				1059.38			
		Top of Screen February 1998				1050.48			
						8.90			feet above (+) or below (-) top screen
		Bottom of Well February 1998				1039.98			
		Bottom of Well	9/9/2025		19.00	1040.38			
						0.40			feet sedimentation
		Before Sampling				1059.38			
		Recovery				1059.38			
		Recovery				1059.38			
		Recovery				1059.38			
		Recovery				1059.38			

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Monitoring Well: MW98-28 (ug)

Primary Sampling Method:
Secondary Sampling Method:

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

GENERAL INFORMATION

TOC	1052.51
Well Depth	152.27
Capped	YES
Standing Water	NO
Litter	NO
Level Tape	Solinst 101
NTU Meter	Hach 2100P
No-Purge Equipment -	Solinst 429
Purge Equipment -	Waterra

NO PURGE METHOD

TOC	1052.51
Well Depth	148.80
Top Screen	925.24
Bottom Screen	900.24
Bottom Well	900.24
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	140.00
Top sample	912.51
Bottom sample	908.51
Turbidity(NTU)	32.62

Date	Time	Water Level	Water Elevation	Notes
9/9/2025	9:05	125.65	926.86	

ANALYTES, CONTAINERS, AND VOLUMES

Analyte		Required Volume (mL)	Volume Collected No-Purge (mL)	Volume Collected Purge & Sample (mL)	Turbidity this Container (NTU)
All	Field NTU	10	10		32.62
Appendix I	Metals	150	150		32.62
Appendix I	VOC	240	240		32.62
Full Appendix II	10 more containers	5620			
TSS	TSS	1000			
Supplemental	BEHP	946			
Supplemental	beta-BHC	946			
Total			400	0	

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

TOC	1052.51	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	152.27	Before purging	9/9/2025	9:05	125.65	926.86		0.0	
		After purging				1052.51			
		Top of Screen December 1998				925.24			
						127.27			feet above (+) or below (-) top screen
		Bottom of Well December 1998				900.24			
		Bottom of Well	9/9/2025		148.80	903.71			
						3.47			feet sedimentation
		Before Sampling				1052.51			
		Recovery				1052.51			
		Recovery				1052.51			
		Recovery				1052.51			
		Recovery				1052.51			

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Monitoring Well: MW98-29A (ug)

Primary Sampling Method:
Secondary Sampling Method:

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

GENERAL INFORMATION

TOC	1088.8
Well Depth	68.00
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	1088.8
Well Depth	68.00
Top Screen	1035.70
Bottom Screen	1020.70
Bottom Well	1020.20
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	
Top sample	1088.80
Bottom sample	1084.80
Turbidity(NTU)	

Date	Time	Water Level	Water Elevation	Notes
9/9/2025		27.84	1060.96	WL ONLY

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		
Appendix I	Metals	150	150		
Appendix I	VOC	240	240		
Full Appendix II	10 more containers	5620			
TSS	TSS	1000			
Supplemental	BEHP	946			
Supplemental	beta-BHC	946			
Total			400		

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

TOC	1088.8	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	68.00	Before purging				1088.80		0.0	no
		After purging				1088.80			
		Top of Screen December 1998				1035.70			
						53.10			feet above (+) or below (-) top screen
		Bottom of Well December 1998				1020.70			
		Bottom of Well				1088.80			
						68.10			feet sedimentation
		Recovery				1088.80			
		Recovery				1088.80			
		Recovery				1088.80			
		Recovery				1088.80			
		Before Sampling				1088.80			

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Monitoring Well: MW98-30A (ug)

Primary Sampling Method:
Secondary Sampling Method:

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

GENERAL INFORMATION

TOC	1088.65
Well Depth	116.40
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	1088.65
Well Depth	116.40
Top Screen	992.25
Bottom Screen	972.25
Bottom Well	971.37
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	110.00
Top sample	978.65
Bottom sample	974.65
Turbidity(NTU)	2.32

Date	Time	Water Level	Water Elevation	Notes
9/9/2025	13:21	30.15	1058.5	

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		2.32
Appendix I	Metals	150	150		2.32
Appendix I	VOC	240	240		2.32
Full Appendix II	10 more containers	5620			
TSS	TSS	1000			
Supplemental	BEHP	946			
Supplemental	beta-BHC	946			
Total			400	0	

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

TOC	1088.65	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	116.40	Before purging	9/9/2025	13:21	30.15	1058.50		0.0	
		After purging				1088.65			
		Top of Screen December 1998				992.25			
						96.40			feet above (+) or below (-) top screen
		Bottom of Well December 1998				972.25			
		Bottom of Well	9/9/2025		117.80	971.00			
						-1.25			feet sedimentation
		Before Sampling				1088.65			
		Recovery				1088.65			
		Recovery				1088.65			
		Recovery				1088.65			
		Recovery				1088.65			

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Monitoring Well: MW02-15A (ug)

Primary Sampling Method:
Secondary Sampling Method:

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

GENERAL INFORMATION

TOC	1105.82
Well Depth	62.25
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	1105.82
Well Depth	62.60
Top Screen	1053.51
Bottom Screen	1043.51
Bottom Well	1043.51
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	57.00
Top sample	1048.82
Bottom sample	1044.82
Turbidity(NTU)	5.12

Date	Time	Water Level	Water Elevation	Notes
9/9/2025	13:37	43.76	1062.06	

ANALYTES, CONTAINERS, AND VOLUMES

Analyte		Required Volume (mL)	Volume Collected No-Purge (mL)	Volume Collected Purge & Sample (mL)	Turbidity this Container (NTU)
All	Field NTU	10	10		5.12
Appendix I	Metals	150	150		5.12
Appendix I	VOC	240	240		5.12
Full Appendix II	10 more containers	5620			
TSS	TSS	1000			
Supplemental	BEHP	946			
Supplemental	beta-BHC	946			
Total			400	0	

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

TOC	1105.82	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	62.25	Before purging	9/9/2025	13:37	43.76	1062.06		0.0	
		After purging				1105.82			
		Top of Screen June 2002				1053.51			
						52.31			feet above (+) or below (-) top screen
		Bottom of Well June 2002				1043.51			
		Bottom of Well	9/9/2025		62.60	1043.22			
						-0.29			feet sedimentation
		Before Sampling				1105.82			
		Recovery				1105.82			
		Recovery				1105.82			
		Recovery				1105.82			
		Recovery				1105.82			

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Monitoring Well: MW06-37 (dg)

Primary Sampling Method:
Secondary Sampling Method:

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

GENERAL INFORMATION

TOC	1060.75
Well Depth	22.85
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	1060.75
Well Depth	22.60
Top Screen	1047.90
Bottom Screen	1037.90
Bottom Well	1037.90
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	17.00
Top sample	1043.75
Bottom sample	1039.75
Turbidity(NTU)	0.76

Date	Time	Water Level	Water Elevation	Notes
9/9/2025	14:26	6.54	1054.21	

ANALYTES, CONTAINERS, AND VOLUMES

Analyte		Required Volume (mL)	Volume Collected No-Purge (mL)	Volume Collected Purge & Sample (mL)	Turbidity this Container (NTU)
All	Field NTU	10	10		0.76
Appendix I	Metals	150	150		0.76
Appendix I	VOC	240	240		0.76
Full Appendix II	10 more containers	5620			
TSS	TSS	1000			
Supplemental	BEHP	946			
Supplemental	beta-BHC	946			
Total			400	0	

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

TOC	1060.75	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	22.85	Before purging	9/9/2025	14:26	6.54	1054.21		0.0	
		After purging				1060.75			
		Top of Screen February 2006				1047.90			
						12.85			feet above (+) or below (-) top screen
		Bottom of Well February 2006				1037.90			
		Bottom of Well	9/9/2025		22.60	1038.15			
						0.25			feet sedimentation
		Before Sampling				1060.75			
		Recovery				1060.75			
		Recovery				1060.75			
		Recovery				1060.75			
		Recovery				1060.75			

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Monitoring Well: MW06-38 (dg)

Primary Sampling Method:
Secondary Sampling Method:

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

GENERAL INFORMATION

TOC	1061.53
Well Depth	22.92
Capped	YES
Standing Water	NO
Litter	NO
Level Tape	Solinst 101
NTU Meter	Hach 2100P
No-Purge Equipment -	Solinst 429
Purge Equipment -	Waterra

NO PURGE METHOD

TOC	1061.53
Well Depth	16.65
Top Screen	1047.90
Bottom Screen	1037.90
Bottom Well	1037.90
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	17.00
Top sample	1044.53
Bottom sample	1040.53
Turbidity(NTU)	1.47

Date	Time	Water Level	Water Elevation	Notes
9/9/2025	14:33	7.29	1054.24	

ANALYTES, CONTAINERS, AND VOLUMES

Analyte		Required Volume (mL)	Volume Collected No-Purge (mL)	Volume Collected Purge & Sample (mL)	Turbidity this Container (NTU)
All	Field NTU	10	10		1.47
Appendix I	Metals	150	150		1.47
Appendix I	VOC	240	240		1.47
Full Appendix II	10 more containers	5620			
TSS	TSS	1000			
Supplemental	BEHP	946			
Supplemental	beta-BHC	946			
Total			400	0	

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

TOC	1061.53	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	22.92	Before purging	9/9/2025	14:33	7.29	1054.24		0.0	
		After purging				1061.53			
		Top of Screen February 2006				1048.61			
						12.92			feet above (+) or below (-) top screen
		Bottom of Well February 2006				1038.61			
		Bottom of Well	9/9/2025		22.50	1039.03			
						0.42			feet sedimentation
		Before Sampling				1061.53			
		Recovery				1061.53			
		Recovery				1061.53			
		Recovery				1061.53			
		Recovery				1061.53			

IDNR Form 542-1322

Monitoring Well: MW06-39 (dg)

Primary Sampling Method:
Secondary Sampling Method:

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

GENERAL INFORMATION

TOC	1060.78
Well Depth	27.83
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	1060.78
Well Depth	27.50
Top Screen	1047.95
Bottom Screen	1032.95
Bottom Well	1032.95
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	22.00
Top sample	1038.78
Bottom sample	1034.78
Turbidity(NTU)	1.13

Date	Time	Water Level	Water Elevation	Notes
9/9/2025	14:45	6.55	1054.23	

ANALYTES, CONTAINERS, AND VOLUMES

Analyte		Required Volume (mL)	Volume Collected No-Purge (mL)	Volume Collected Purge & Sample (mL)	Turbidity this Container (NTU)
All	Field NTU	10	10		1.13
Appendix I	Metals	150	150		1.13
Appendix I	VOC	240	240		1.13
Full Appendix II	10 more containers	5620			
TSS	TSS	1000			
Supplemental	BEHP	946			
Supplemental	beta-BHC	946			
Total			400	0	

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

TOC	1060.78	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	27.83	Before purging	9/9/2025	14:45	6.55	1054.23		0.0	
		After purging				1060.78			
		Top of Screen February 2006				1047.95			
						12.83			feet above (+) or below (-) top screen
		Bottom of Well February 2006				1032.95			
		Bottom of Well	9/9/2025		27.50	1033.28			
						0.33			feet sedimentation
		Before Sampling				1060.78			
		Recovery				1060.78			
		Recovery				1060.78			
		Recovery				1060.78			
		Recovery				1060.78			

IDNR Form 542-1322

Monitoring Well: MW09-40 (dg)

Primary Sampling Method:
Secondary Sampling Method:

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

GENERAL INFORMATION

TOC	1056.5
Well Depth	20.00
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	1056.5
Well Depth	20.10
Top Screen	1046.50
Bottom Screen	1036.50
Bottom Well	1036.50
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	15.00
Top sample	1041.50
Bottom sample	1037.50
Turbidity(NTU)	0.74

Date	Time	Water Level	Water Elevation	Notes
9/9/2025	9:49	8.25	1048.25	

ANALYTES, CONTAINERS, AND VOLUMES

Analyte		Required Volume (mL)	Volume Collected No-Purge (mL)	Volume Collected Purge & Sample (mL)	Turbidity this Container (NTU)
All	Field NTU	10	10		0.74
Appendix I	Metals	150	150		0.74
Appendix I	VOC	240	240		0.74
Full Appendix II	10 more containers	5620			
TSS	TSS	1000			
Supplemental	BEHP	946			
Supplemental	beta-BHC	946			
Total			400	0	

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

TOC	1056.5	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	20.00	Before purging	9/9/2025	9:49	8.25	1048.25		0.0	
		After purging				1056.50			
		Top of Screen March 2009				1046.50			
						10.00			feet above (+) or below (-) top screen
		Bottom of Well March 2009				1036.50			
		Bottom of Well	9/9/2025		20.10	1036.40			
						-0.10			feet sedimentation
		Before Sampling				1056.50			
		Recovery				1056.50			
		Recovery				1056.50			
		Recovery				1056.50			
		Recovery				1056.50			

IDNR Form 542-1322

Monitoring Well: MW 21-43 (dg)

Primary Sampling Method:
Secondary Sampling Method:

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

GENERAL INFORMATION

TOC	978.29
Well Depth	30.25
Capped	YES
Standing Water	NO
Litter	NO
Level Tape	Solinst 101
NTU Meter	Hach 2100P
No-Purge Equipment -	Solinst 429
Purge Equipment -	Waterra

NO PURGE METHOD

TOC	978.29
Well Depth	30.25
Top Screen	958.04
Bottom Screen	948.04
Bottom Well	948.04
Sampler Length (ft)	4.00
Sampler Volume (mL)	440.00
Feet cordage	24.00
Top sample	954.29
Bottom sample	950.29
Turbidity(NTU)	1.78

Date	Time	Water Level	Water Elevation	Notes
9/9/2025	11:42	20.06	958.23	

ANALYTES, CONTAINERS, AND VOLUMES

Analyte		Required Volume (mL)	Volume Collected No-Purge (mL)	Volume Collected Purge & Sample (mL)	Turbidity this Container (NTU)
All	Field NTU	10	10		1.78
Appendix I	Metals	150	150		1.78
Appendix I	VOC	240	240		1.78
Full Appendix II	10 more containers	5620			
TSS	TSS	1000			
Supplemental	BEHP	946			
Supplemental	beta-BHC	946			
Total			400	0	

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

TOC	978.29	2" dia.	Date	Time	Depth	Elevation	Gallons	# of Vol.	Purged Dry?
Well Depth	30.25	Before purging	9/9/2025	11:42	20.06	958.23		0.0	
		After purging				978.29			
		Top of Screen Dec 2021				958.04			
						20.25			feet above (+) or below (-) top screen
		Bottom of WellDec 2021				948.04			
		Bottom of Well	9/9/2025		30.25	948.04			
						0.00			feet sedimentation
		Before Sampling				978.29			
		Recovery				978.29			
		Recovery				978.29			
		Recovery				978.29			
		Recovery				978.29			

BOONE COUNTY SANITARY LANDFILL
PERMIT # 08-SDP-1-75P

9/9/2025

Sampled by: Todd Whipple

Weather: Overcast, Calm, 60-75 degrees

IDNR Form 542-1324

GWD-1	Date	Time	Type	Flowing	Quantity	Discolored	Odor	Litter
	9/9/2025		tile	dry	dry	No	No	No
						pH	Conductivity	Temp.(C)
						NT	NT	Turbidity (NTU)

IDNR Form 542-1324

SRAMP 1	Date	Time	Type	Flowing	Quantity	Discolored	Odor	Litter
	9/9/2025		pipe discharge	dry		No	No	No
						pH	Conductivity	Temp.(C)
						NT	NT	Turbidity (NTU)

IDNR Form 542-1324

SRAMP 2	Date	Time	Type	Flowing	Quantity	Discolored	Odor	Litter
	9/9/2025		tile	dry		No	No	No
						pH	Conductivity	Temp.(C)
						NT	NT	Turbidity (NTU)

IDNR Form 542-1324

GU-3	Date	Time	Type	Flowing	Quantity	Discolored	Odor	Litter
	9/9/2025		tile	buried		No	No	No
						pH	DO	Temp.(C)
						NT	NT	Turbidity (NTU)

IDNR Form 542-1324

GU-4	Date	Time	Type	Flowing	Quantity	Discolored	Odor	Litter
	9/9/2025	12:50	tile	buried	250 mL/60 sec	No	No	No
						pH	DO	Temp.(C)
						NT	NT	Turbidity (NTU)

IDNR Form 542-1324

PEC-3	Date	Time	Type	Flowing	Quantity	Discolored	Odor	Litter
	9/9/2025		channel	buried		No	No	No
						pH	Conductivity	Temp.(C)
						NT	NT	Turbidity (NTU)

Appendix B

Statistical Report

APPENDIX B.1 –Spring Statistical Evaluation

GROUND WATER STATISTICS

FOR THE

BOONE COUNTY SANITARY LANDFILL

First Semi-Annual Monitoring Event in 2025

Prepared for:
Boone County Landfill Administration
1268 224th Lane
Boone, Boone County, IA

Prepared by:
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June 2025

INTRODUCTION

This report summarizes the results of the statistical analysis used to evaluate the ground water quality data obtained during the first semi-annual monitoring event in 2025 at the Boone County Sanitary Landfill in Boone County, Iowa. The statistical plan was designed to detect a release from the facility at the earliest indication so that it is protective of human health and the environment. The interwell methodology is described and then applied to the Boone 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 Boone County Sanitary Landfill includes upgradient wells MW88-2, MW91-8, MW98-28, MW02-15A, and MW02-30A, and downgradient detection sample points UD-3, GWD-1, MW88-3, MW91-10, MW94-18, MW94-19, MW96-21, MW96-23, and MW96-24. Detections of volatile organic compounds (VOCs) and statistical exceedances at wells along the north edge of the facility prompted a site remedial and mitigating action plan (SRAMP). Monitoring well MW98-25 situated along the north property line, has had verified VOC detections and inorganic exceedances. Sentinel wells SRAMP 1, SRAMP 2, MW06-37, MW06-38, and MW06-39 were installed to monitor the effectiveness of the SRAMP. Additional sample points (MW09-40 and MW09-42) have been added to monitor the downgradient zone to comply with the well spacing requirements of 113.10(2)e(2).

Each of the groundwater monitoring wells is to be sampled at least semiannually and analyzed for the detection monitoring parameters listed in 113.10(5), which includes 15 inorganic constituents and 47 organic compounds, summarized in Table 1 below.

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

Organic Compounds:

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

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

Inorganic constituents:

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

The ground water data obtained during the first semi-annual monitoring event in 2025 are summarized in Attachment A.

STATISTICAL METHODOLOGIES FOR DETECTION MONITORING

IAC 567, Chapter 113.10(4) provides several options for statistically evaluating the ground water data at those wells that monitor the open cells or contiguous MSWLF units. The preferred methods for comparing ground water data are using either prediction limits or using control charts. The prediction limit method was applied to the Boone 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. As an alternative to nonparametric prediction limits, Poisson prediction limits can be used for small data sets where the detection frequency is less than 25%. Since there was limited background, Poisson prediction limits were previously computed for those rarely detected parameters. Since the Unified Guidance recommends nonparametric limits over Poisson limits, nonparametric limits were used for the current comparisons

Results of the Interwell Statistics

The background data used in this statistical analysis includes the ground water data collected from ground water wells MW88-2, MW91-8, MW98-28, MW02-15A, and MW02-30A during the period from September 2014 through the current data. A summary of the background data from monitoring wells MW88-2, MW91-8, MW98-28, MW02-15A, and MW02-30A, 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 GU-3, GU-4, MW06-37, MW06-38, MW06-39, MW09-40, MW21-43, MW88-3, MW91-10, MW94-18, MW96-21, MW96-23, MW96-24, MW98-25, and SRamp 1, 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.

Trace Metal Exceedances detected during the First Semi-Annual Monitoring Event in 2025

Well	Trace Metal	Result, µg/L	Prediction Limit, µg/L	Prediction Limit Type	Verified/ Awaiting Verification
GU-3	Nickel	30.6	17.4000	Nonparametric	Verified
GU-4	Zinc	243	144.0000	Nonparametric	Verified
MW98-25	Cobalt	8.7	7.0000	Nonparametric	Verified
	Nickel	19.2	17.4000	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. The background barium data failed a normal distribution so barium uses a nonparametric site prediction limit. Table 5 is a summary of the statistics and prediction limits determined for the metals. Time series graphs of each of the parameters at each well with the corresponding prediction limits are attached.

A statistical power curve indicates the expected false assessments for the site as a whole. The false positive rate for interwell analyses is the percentage of failures when the upgradient versus downgradient true mean difference equals zero. False negative rate indicates the chance of missing contamination at a single well for a single constituent. The statistical power is a function of the number of wells included, the number of constituents compared, the detection frequencies, and the data distributions involved. For interwell analysis, the site-wide false positive rate is 1% and the test becomes sensitive to 4 standard deviation unit increases over background.

The verified exceedances were evaluated against the GWPS using confidence limits (Attachment C). The 95% lower confidence limit (LCL) for the mean of the historical data was used to evaluate whether the

regulated unit is in compliance with the ground-water protection standards under 40 CFR 264 (e.g. whether the verified constituent is detected at a significant level above the GWPS). An exceedance is verified if the LCL is above the Regulatory GWPS.

The 95% LCL for cobalt at MW98-25 (8.187 µg/L) exceeds the Iowa Statewide standard of 2.1 µg/L. The remainder of the calculated 95% LCLs for the verified trace metals are all below the respective ground water standards.

Intrawell statistics

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

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

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

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

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

nonparametric prediction limit.

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

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

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

Results of the Intrawell Statistics

The trace metal data from GU-3 and GU-4 were evaluated using the combined Shewhart-CUSUM control chart method. The background includes the data obtained from 2021 through 2024. There are currently fewer than the recommended minimum of eight rounds of background data available. Control limits were computed with as few as five data points for some parameters. Insufficient data exists for nonparametric cases.

A summary of the intrawell statistics is included in Attachment D, Table 1 “Summary Statistics and Intermediate Computations for Combined Shewhart-CUSUM Control Charts.” The control charts or time series graphs follow the summary table. For the most current data, there are no control limit exceedances detected for the limited cases tested. No increasing trends were detected in the background data.

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 Boone County Landfill during the first semi-annual monitoring event in 2025 are summarized below.

VOCs detected during the First Semi-Annual Monitoring Event in 2025

Well	VOC Detected	Result, µg/L	Reporting Limit, µg/L	Verified/ Awaiting Verification	Ground Water Standard
GU-3	1,4-Dichlorobenzene	1.1	1	Verified	75 ^a
	Benzene	7.8	1	Verified	5 ^a
	Chlorobenzene	1.6	1	Verified	100 ^a
	Chloroethane	1.1	1	Verified	2800 ^b
	cis-1,2-Dichloroethene	3.8	1	Verified	70 ^a
	Vinyl chloride	1.4	1	Verified	2 ^a
MW98-25	1,1-Dichloroethane	1.0	1	Verified	140 ^b
	1,4-Dichlorobenzene	1.4	1	Verified	75 ^a
	cis-1,2-Dichloroethene	1.5	1	Verified	70 ^a
	Dichlorodifluoromethane	2.0	1	Verified	1000 ^b
PEC-3	cis-1,2-Dichloroethene	1.4	1	Awaiting Verification	70 ^a
SRAMP 1	1,4-Dichlorobenzene	9.1	1	Verified	75 ^a
	Benzene	5.6	1	Verified	5 ^a
	Chlorobenzene	2.4	1	Verified	100 ^a
	Chloroethane	1.6	1	Verified	2800 ^b
	cis-1,2-Dichloroethene	2.5	1	Verified	70 ^a
	Dichlorodifluoromethane	16.9	1	Verified	1000 ^b
	Trichlorofluoromethane	11.1	1	Verified	2000 ^b

a - USEPA MCL

b – Iowa Statewide Standard

Historical VOC detections are summarized in Attachment E.

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

The 95% LCL for benzene at GU-3 (5.736 µg/L) exceeds the MCL of 5 µg/L. The 95% LCL for the remainder of the verified VOCs are all below the respective ground water standards.

Attachment A

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

Table 1

Analytical Data Summary for 3/24/2025

Constituents	Units	GU-3	GU-4	MW02-15A	MW02-30A	MW06-37	MW06-38	MW06-39	MW09-40	MW21-43
1,1,1,2-tetrachloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-trichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-trichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,3-trichloropropane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dibromo-3-chloropropane	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
1,2-dibromoethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichlorobenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloropropane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-dichlorobenzene	ug/L	1.1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2-butanone (mek)	ug/L	<10	<10	<10	<10	<10	<10	<10	<10	<10
2-hexanone (mbk)	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
4-methyl-2-pentanone (mibk)	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
Acetone	ug/L	<10	<10	<10	<10	<10	<10	<10	<10	<10
Acrylonitrile	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
Antimony, total	ug/L	<2.0	<1.0	<2.0	<2.0	<1.0	<1.0	<1.0	2.8	<2.0
Arsenic, total	ug/L	<4.0	2.3	<4.0	38.3	<2.0	<2.0	<2.0	<4.0	4.3
Barium, total	ug/L	719.0	350.0	32.6	85.7	118.0	201.0	182.0	15.2	211.0
Benzene	ug/L	7.8	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Beryllium, total	ug/L	<4.0	<5	<4.0	<4.0	<5	<5	<5	<4.0	<4.0
Bromochloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromodichloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromoform	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromomethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cadmium, total	ug/L	<8	.2	<8	<8	.5	.4	<2	<8	<8
Carbon disulfide	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon tetrachloride	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzene	ug/L	1.6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroethane	ug/L	1.1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroform	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chromium, total	ug/L	<8.0	7.6	<8.0	<8.0	1.9	1.9	1.8	<8.0	<8.0
Cis-1,2-dichloroethylene	ug/L	3.8	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Cis-1,3-dichloropropene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cobalt, total	ug/L	<4	2.9	.4	<4	<5	<5	<5	<4	.7
Copper, total	ug/L	<4.0	6.5	<4.0	<4.0	<5.0	<5.0	<5.0	<4.0	<4.0
Dibromochloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromomethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dichlorodifluoromethane	ug/L									
Ethylbenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Lead, total	ug/L	<4.0	3.8	<4.0	<4.0	<1.0	<1.0	<1.0	<4.0	<4.0
Methyl iodide	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene chloride	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
Nickel, total	ug/L	30.6	9.5	4.4	<4.0	<5.0	<5.0	<5.0	<4.0	6.8
Selenium, total	ug/L	<4.0	<2.0	<4.0	<4.0	2.1	3.8	<2.0	<4.0	<4.0
Silver, total	ug/L	<4	<5	<4	<4	<5	<5	<5	<4	<4
Styrene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Thallium, total	ug/L	<2.0	<5	<2.0	<2.0	<5	<5	<5	<2.0	<2.0
Toluene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,2-dichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,3-dichloropropene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,4-dichloro-2-butene	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
Trichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Vanadium, total	ug/L	<20	13	<20	<20	<2	<2	<2	<20	<20
Vinyl acetate	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5
Vinyl chloride	ug/L	1.4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Xylenes, total	ug/L	<2	<2	<2	<2	<2	<2	<2	<2	<2
Zinc, total	ug/L	<20.0	243.0	<20.0	<20.0	<5.0	5.6	<5.0	<20.0	<20.0

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

Table 1

Analytical Data Summary for 3/24/2025

Constituents	MW88-2	MW88-3	MW91-10	MW91-8	MW94-18	MW96-21	MW96-23	MW96-24	MW98-25	MW98-28
1,1,1,2-tetrachloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-trichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-trichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	1	<1
1,1-dichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,3-trichloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dibromo-3-chloropropane	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
1,2-dibromoethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichlorobenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-dichlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.4	<1.0
2-butanone (mek)	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
2-hexanone (mbk)	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
4-methyl-2-pentanone (mibk)	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Acetone	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Acrylonitrile	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Antimony, total	<2.0	<2.0	<2.0	<1.0	<2.0	<2.0	<2.0	<2.0	<1.0	<2.0
Arsenic, total	<4.0	<4.0	<4.0	<2.0	<4.0	21.2	37.7	<4.0	6.2	<4.0
Barium, total	297.0	146.0	38.4	96.4	25.2	296.0	603.0	544.0	90.7	256.0
Benzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Beryllium, total	<4.0	<4.0	<4.0	<5	<4.0	<4.0	<4.0	<4.0	<5	<4.0
Bromochloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromodichloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromoform	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromomethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cadmium, total	<.8	<.8	1.1	.5	<.8	<.8	<.8	<.8	<.2	<.8
Carbon disulfide	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon tetrachloride	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroethane	<1.0	<1.0	<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	<1	<1
Chloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chromium, total	<8.0	<8.0	<8.0	1.6	<8.0	<8.0	<8.0	<8.0	1.5	<8.0
Cis-1,2-dichloroethylene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.5	<1.0
Cis-1,3-dichloropropene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cobalt, total	.7	<.4	<.4	<.5	<.4	.6	<.4	<.4	8.7	2.1
Copper, total	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<5.0	<4.0
Dibromochloromethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromomethane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dichlorodifluoromethane									2.0	
Ethylbenzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Lead, total	<4.0	<4.0	<4.0	<1.0	<4.0	<4.0	<4.0	<4.0	<1.0	<4.0
Methyl iodide	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene chloride	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Nickel, total	4.0	<4.0	<4.0	<4.0	<4.0	4.6	<4.0	<4.0	19.2	7.8
Selenium, total	<4.0	<4.0	8.6	2.1	<4.0	<4.0	<4.0	<4.0	<2.0	<4.0
Silver, total	<4	<4	<4	<5	<4	<4	<4	<4	<5	<4
Styrene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Thallium, total	<2.0	<2.0	<2.0	<.5	<2.0	<2.0	<2.0	<2.0	<.5	<2.0
Toluene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,2-dichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,3-dichloropropene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,4-dichloro-2-butene	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Trichloroethylene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Vanadium, total	<20	<20	<20	<2	<20	<20	<20	<20	<2	<20
Vinyl acetate	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Vinyl chloride	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Xylenes, total	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Zinc, total	<20.0	<20.0	<20.0	<5.0	<20.0	<20.0	<20.0	<20.0	<5.0	<20.0

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

Table 1

Analytical Data Summary for 3/24/2025

Constituents	PEC-3	Sramp 1	SRAMP 2
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	<1	<1
1,1-dichloroethylene	<1	<1	<1
1,2,3-trichloropropane	<1	<1	<1
1,2-dibromo-3-chloropropane	<5	<5	<5
1,2-dibromoethane	<1	<1	<1
1,2-dichlorobenzene	<1	<1	<1
1,2-dichloroethane	<1	<1	<1
1,2-dichloropropane	<1	<1	<1
1,4-dichlorobenzene	<1.0	9.1	<1.0
2-butanone (mek)	<10	<10	<10
2-hexanone (mbk)	<5	<5	<5
4-methyl-2-pentanone (mibk)	<5	<5	<5
Acetone	<10	<10	<10
Acrylonitrile	<5	<5	<5
Antimony, total		<1.0	
Arsenic, total		5.6	
Barium, total		139.0	
Benzene	<1.0	5.6	<1.0
Beryllium, total		<5	
Bromochloromethane	<1	<1	<1
Bromodichloromethane	<1	<1	<1
Bromoform	<1	<1	<1
Bromomethane	<1	<1	<1
Cadmium, total		<2	
Carbon disulfide	<1	<1	<1
Carbon tetrachloride	<1	<1	<1
Chlorobenzene	<1.0	2.4	<1.0
Chloroethane	<1.0	1.6	<1.0
Chloroform	<1	<1	<1
Chloromethane	<1	<1	<1
Chromium, total		1.2	
Cis-1,2-dichloroethylene	1.4	2.5	<1.0
Cis-1,3-dichloropropene	<1	<1	<1
Cobalt, total		1.7	
Copper, total		<5.0	
Dibromochloromethane	<1	<1	<1
Dibromomethane	<1	<1	<1
Dichlorodifluoromethane		16.9	<1.0
Ethylbenzene	<1	<1	<1
Lead, total		<1.0	
Methyl iodide	<1	<1	<1
Methylene chloride	<5	<5	<5
Nickel, total		6.5	
Selenium, total		<2.0	
Silver, total		<5	
Styrene	<1	<1	<1
Tetrachloroethylene	<1	<1	<1
Thallium, total		<5	
Toluene	<1	<1	<1
Trans-1,2-dichloroethylene	<1	<1	<1
Trans-1,3-dichloropropene	<1	<1	<1
Trans-1,4-dichloro-2-butene	<5	<5	<5
Trichloroethylene	<1	<1	<1
Trichlorofluoromethane	<1.0	11.1	<1.0
Vanadium, total		<2	
Vinyl acetate	<5	<5	<5
Vinyl chloride	<1.0	<1.0	<1.0
Xylenes, total	<2	<2	<2
Zinc, total		<5.0	

* - 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	MW02-15A	09/18/2014	ND	2.0000		
Antimony, total	ug/L	MW02-15A	11/13/2014	ND	2.0000		
Antimony, total	ug/L	MW02-15A	03/17/2015	ND	2.0000		
Antimony, total	ug/L	MW02-15A	06/29/2015	ND	2.0000		
Antimony, total	ug/L	MW02-15A	09/11/2015	ND	2.0000		
Antimony, total	ug/L	MW02-15A	03/16/2016	ND	2.0000		
Antimony, total	ug/L	MW02-15A	09/08/2016	ND	2.0000		
Antimony, total	ug/L	MW02-15A	03/17/2017	ND	2.0000		
Antimony, total	ug/L	MW02-15A	09/19/2017	ND	2.0000		
Antimony, total	ug/L	MW02-15A	03/08/2018	ND	2.0000		
Antimony, total	ug/L	MW02-15A	09/24/2018	ND	2.0000		
Antimony, total	ug/L	MW02-15A	03/25/2019	ND	2.0000		
Antimony, total	ug/L	MW02-15A	09/03/2019	ND	2.0000		
Antimony, total	ug/L	MW02-15A	03/23/2020	ND	2.0000		
Antimony, total	ug/L	MW02-15A	09/04/2020	ND	2.0000		
Antimony, total	ug/L	MW02-15A	03/09/2021	ND	2.0000		
Antimony, total	ug/L	MW02-15A	09/07/2021	ND	2.0000		
Antimony, total	ug/L	MW02-15A	03/28/2022	ND	2.0000		
Antimony, total	ug/L	MW02-15A	09/14/2022	ND	2.0000		
Antimony, total	ug/L	MW02-15A	03/20/2023	ND	2.0000		
Antimony, total	ug/L	MW02-15A	09/12/2023	ND	2.0000		
Antimony, total	ug/L	MW02-15A	03/12/2024	ND	2.0000		
Antimony, total	ug/L	MW02-15A	09/30/2024	ND	2.0000		
Antimony, total	ug/L	MW02-15A	03/24/2025	ND	2.0000		
Arsenic, total	ug/L	MW02-15A	09/18/2014	ND	4.0000		
Arsenic, total	ug/L	MW02-15A	11/13/2014	ND	4.0000		
Arsenic, total	ug/L	MW02-15A	03/17/2015	ND	4.0000		
Arsenic, total	ug/L	MW02-15A	06/29/2015	ND	4.0000		
Arsenic, total	ug/L	MW02-15A	09/11/2015	ND	4.0000		
Arsenic, total	ug/L	MW02-15A	03/16/2016	ND	4.0000		
Arsenic, total	ug/L	MW02-15A	09/08/2016	ND	4.0000		
Arsenic, total	ug/L	MW02-15A	03/17/2017	ND	4.0000		
Arsenic, total	ug/L	MW02-15A	09/19/2017	ND	4.0000		
Arsenic, total	ug/L	MW02-15A	03/08/2018	ND	4.0000		
Arsenic, total	ug/L	MW02-15A	09/24/2018	ND	4.0000		
Arsenic, total	ug/L	MW02-15A	03/25/2019	ND	4.0000		
Arsenic, total	ug/L	MW02-15A	09/03/2019	ND	4.0000		
Arsenic, total	ug/L	MW02-15A	03/23/2020	ND	4.0000		
Arsenic, total	ug/L	MW02-15A	09/04/2020	ND	4.0000		
Arsenic, total	ug/L	MW02-15A	03/09/2021	ND	4.0000		
Arsenic, total	ug/L	MW02-15A	09/07/2021	ND	4.0000		
Arsenic, total	ug/L	MW02-15A	03/28/2022	ND	4.0000		
Arsenic, total	ug/L	MW02-15A	09/14/2022	ND	4.0000		
Arsenic, total	ug/L	MW02-15A	03/20/2023	ND	4.0000		
Arsenic, total	ug/L	MW02-15A	09/12/2023	ND	4.0000		
Arsenic, total	ug/L	MW02-15A	03/12/2024	ND	4.0000		
Arsenic, total	ug/L	MW02-15A	09/30/2024	ND	4.0000		
Arsenic, total	ug/L	MW02-15A	03/24/2025	ND	4.0000		
Barium, total	ug/L	MW02-15A	09/18/2014		33.4000		
Barium, total	ug/L	MW02-15A	11/13/2014		33.1000		
Barium, total	ug/L	MW02-15A	03/17/2015		30.2000		
Barium, total	ug/L	MW02-15A	06/29/2015		28.7000		
Barium, total	ug/L	MW02-15A	09/11/2015		34.8000		
Barium, total	ug/L	MW02-15A	03/16/2016		40.4000		
Barium, total	ug/L	MW02-15A	09/08/2016		44.8000		
Barium, total	ug/L	MW02-15A	03/17/2017		43.5000		
Barium, total	ug/L	MW02-15A	09/19/2017		36.0000		
Barium, total	ug/L	MW02-15A	03/08/2018		31.9000		
Barium, total	ug/L	MW02-15A	09/24/2018		32.2000		
Barium, total	ug/L	MW02-15A	03/25/2019		30.0000		
Barium, total	ug/L	MW02-15A	09/03/2019		30.4000		
Barium, total	ug/L	MW02-15A	03/23/2020		32.0000		
Barium, total	ug/L	MW02-15A	09/04/2020		40.0000		
Barium, total	ug/L	MW02-15A	03/09/2021		38.9000		
Barium, total	ug/L	MW02-15A	09/07/2021		75.3000		
Barium, total	ug/L	MW02-15A	03/28/2022		46.2000		
Barium, total	ug/L	MW02-15A	09/14/2022		39.2000		
Barium, total	ug/L	MW02-15A	03/20/2023		42.8000		
Barium, total	ug/L	MW02-15A	09/12/2023		35.9000		
Barium, total	ug/L	MW02-15A	03/12/2024		38.9000		
Barium, total	ug/L	MW02-15A	09/30/2024		34.9000		
Barium, total	ug/L	MW02-15A	03/24/2025		32.6000		
Beryllium, total	ug/L	MW02-15A	09/18/2014	ND	4.0000		
Beryllium, total	ug/L	MW02-15A	11/13/2014	ND	4.0000		

* - Outlier for that well and constituent.

** - ND value replaced with median RL.

*** - ND value replaced with manual RL.

ND = Not detected, Result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Beryllium, total	ug/L	MW02-15A	03/17/2015	ND	4.0000		
Beryllium, total	ug/L	MW02-15A	06/29/2015	ND	4.0000		
Beryllium, total	ug/L	MW02-15A	09/11/2015	ND	4.0000		
Beryllium, total	ug/L	MW02-15A	03/16/2016	ND	4.0000		
Beryllium, total	ug/L	MW02-15A	09/08/2016	ND	4.0000		
Beryllium, total	ug/L	MW02-15A	03/17/2017	ND	4.0000		
Beryllium, total	ug/L	MW02-15A	09/19/2017	ND	4.0000		
Beryllium, total	ug/L	MW02-15A	03/08/2018	ND	4.0000		
Beryllium, total	ug/L	MW02-15A	09/24/2018	ND	4.0000		
Beryllium, total	ug/L	MW02-15A	03/25/2019	ND	4.0000		
Beryllium, total	ug/L	MW02-15A	09/03/2019	ND	4.0000		
Beryllium, total	ug/L	MW02-15A	03/23/2020	ND	4.0000		
Beryllium, total	ug/L	MW02-15A	09/04/2020	ND	4.0000		
Beryllium, total	ug/L	MW02-15A	03/09/2021	ND	4.0000		
Beryllium, total	ug/L	MW02-15A	09/07/2021	ND	4.0000		
Beryllium, total	ug/L	MW02-15A	03/28/2022	ND	4.0000		
Beryllium, total	ug/L	MW02-15A	09/14/2022	ND	4.0000		
Beryllium, total	ug/L	MW02-15A	03/20/2023	ND	4.0000		
Beryllium, total	ug/L	MW02-15A	09/12/2023	ND	4.0000		
Beryllium, total	ug/L	MW02-15A	03/12/2024	ND	4.0000		
Beryllium, total	ug/L	MW02-15A	09/30/2024	ND	4.0000		
Beryllium, total	ug/L	MW02-15A	03/24/2025	ND	4.0000		
Cadmium, total	ug/L	MW02-15A	09/18/2014	ND	0.8000		
Cadmium, total	ug/L	MW02-15A	11/13/2014	ND	0.8000		
Cadmium, total	ug/L	MW02-15A	03/17/2015	ND	0.8000		
Cadmium, total	ug/L	MW02-15A	06/29/2015	ND	0.8000		
Cadmium, total	ug/L	MW02-15A	09/11/2015	ND	0.8000		
Cadmium, total	ug/L	MW02-15A	03/16/2016		3.6000		*
Cadmium, total	ug/L	MW02-15A	09/08/2016	ND	0.8000		
Cadmium, total	ug/L	MW02-15A	03/17/2017	ND	0.8000		
Cadmium, total	ug/L	MW02-15A	09/19/2017	ND	0.8000		
Cadmium, total	ug/L	MW02-15A	03/08/2018	ND	0.8000		
Cadmium, total	ug/L	MW02-15A	09/24/2018	ND	0.8000		
Cadmium, total	ug/L	MW02-15A	03/25/2019	ND	0.8000		
Cadmium, total	ug/L	MW02-15A	09/03/2019	ND	0.8000		
Cadmium, total	ug/L	MW02-15A	03/23/2020	ND	0.8000		
Cadmium, total	ug/L	MW02-15A	09/04/2020	ND	0.8000		
Cadmium, total	ug/L	MW02-15A	03/09/2021	ND	0.8000		
Cadmium, total	ug/L	MW02-15A	09/07/2021		0.9000		
Cadmium, total	ug/L	MW02-15A	03/28/2022	ND	0.8000		
Cadmium, total	ug/L	MW02-15A	09/14/2022	ND	0.8000		
Cadmium, total	ug/L	MW02-15A	03/20/2023	ND	0.8000		
Cadmium, total	ug/L	MW02-15A	09/12/2023	ND	0.8000		
Cadmium, total	ug/L	MW02-15A	03/12/2024	ND	0.8000		
Cadmium, total	ug/L	MW02-15A	09/30/2024	ND	0.8000		
Cadmium, total	ug/L	MW02-15A	03/24/2025	ND	0.8000		
Chromium, total	ug/L	MW02-15A	09/18/2014	ND	8.0000		
Chromium, total	ug/L	MW02-15A	11/13/2014	ND	8.0000		
Chromium, total	ug/L	MW02-15A	03/17/2015	ND	8.0000		
Chromium, total	ug/L	MW02-15A	06/29/2015	ND	8.0000		
Chromium, total	ug/L	MW02-15A	09/11/2015	ND	8.0000		
Chromium, total	ug/L	MW02-15A	03/16/2016	ND	8.0000		
Chromium, total	ug/L	MW02-15A	09/08/2016	ND	8.0000		
Chromium, total	ug/L	MW02-15A	03/17/2017	ND	8.0000		
Chromium, total	ug/L	MW02-15A	09/19/2017	ND	8.0000		
Chromium, total	ug/L	MW02-15A	03/08/2018	ND	8.0000		
Chromium, total	ug/L	MW02-15A	09/24/2018	ND	8.0000		
Chromium, total	ug/L	MW02-15A	03/25/2019	ND	8.0000		
Chromium, total	ug/L	MW02-15A	09/03/2019	ND	8.0000		
Chromium, total	ug/L	MW02-15A	03/23/2020	ND	8.0000		
Chromium, total	ug/L	MW02-15A	09/04/2020	ND	8.0000		
Chromium, total	ug/L	MW02-15A	03/09/2021	ND	8.0000		
Chromium, total	ug/L	MW02-15A	09/07/2021	ND	8.0000		
Chromium, total	ug/L	MW02-15A	03/28/2022	ND	8.0000		
Chromium, total	ug/L	MW02-15A	09/14/2022	ND	8.0000		
Chromium, total	ug/L	MW02-15A	03/20/2023	ND	8.0000		
Chromium, total	ug/L	MW02-15A	09/12/2023	ND	8.0000		
Chromium, total	ug/L	MW02-15A	03/12/2024	ND	8.0000		
Chromium, total	ug/L	MW02-15A	09/30/2024	ND	8.0000		
Chromium, total	ug/L	MW02-15A	03/24/2025	ND	8.0000		
Cobalt, total	ug/L	MW02-15A	09/18/2014	ND	0.8000		
Cobalt, total	ug/L	MW02-15A	11/13/2014	ND	0.8000		
Cobalt, total	ug/L	MW02-15A	03/17/2015	ND	0.8000		
Cobalt, total	ug/L	MW02-15A	06/29/2015	ND	0.8000		

* - Outlier for that well and constituent.

** - ND value replaced with median RL.

*** - ND value replaced with manual RL.

ND = Not detected, Result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Cobalt, total	ug/L	MW02-15A	09/11/2015		0.8000		
Cobalt, total	ug/L	MW02-15A	03/16/2016	ND	0.8000		
Cobalt, total	ug/L	MW02-15A	09/08/2016		1.4000		
Cobalt, total	ug/L	MW02-15A	03/17/2017		1.5000		
Cobalt, total	ug/L	MW02-15A	09/19/2017	ND	0.8000		
Cobalt, total	ug/L	MW02-15A	03/08/2018	ND	0.8000		
Cobalt, total	ug/L	MW02-15A	09/24/2018	ND	0.8000		
Cobalt, total	ug/L	MW02-15A	03/25/2019	ND	0.8000		
Cobalt, total	ug/L	MW02-15A	09/03/2019		0.9000		
Cobalt, total	ug/L	MW02-15A	03/23/2020		1.6000		
Cobalt, total	ug/L	MW02-15A	09/04/2020		2.8000		
Cobalt, total	ug/L	MW02-15A	03/09/2021		5.8000		
Cobalt, total	ug/L	MW02-15A	09/07/2021		5.7000		
Cobalt, total	ug/L	MW02-15A	03/28/2022		3.2000		
Cobalt, total	ug/L	MW02-15A	09/14/2022		6.2000		
Cobalt, total	ug/L	MW02-15A	03/20/2023		3.6000		
Cobalt, total	ug/L	MW02-15A	09/12/2023		1.1000		
Cobalt, total	ug/L	MW02-15A	03/12/2024		1.2000		
Cobalt, total	ug/L	MW02-15A	09/30/2024		0.9000		
Cobalt, total	ug/L	MW02-15A	03/24/2025		0.4000		
Copper, total	ug/L	MW02-15A	09/18/2014		7.8000		
Copper, total	ug/L	MW02-15A	11/13/2014	ND	4.0000		
Copper, total	ug/L	MW02-15A	03/17/2015	ND	4.0000		
Copper, total	ug/L	MW02-15A	06/29/2015	ND	4.0000		
Copper, total	ug/L	MW02-15A	09/11/2015	ND	4.0000		
Copper, total	ug/L	MW02-15A	03/16/2016	ND	4.0000		
Copper, total	ug/L	MW02-15A	09/08/2016	ND	4.0000		
Copper, total	ug/L	MW02-15A	03/17/2017	ND	4.0000		
Copper, total	ug/L	MW02-15A	09/19/2017	ND	4.0000		
Copper, total	ug/L	MW02-15A	03/08/2018	ND	4.0000		
Copper, total	ug/L	MW02-15A	09/24/2018	ND	4.0000		
Copper, total	ug/L	MW02-15A	03/25/2019	ND	4.0000		
Copper, total	ug/L	MW02-15A	09/03/2019	ND	4.0000		
Copper, total	ug/L	MW02-15A	03/23/2020	ND	4.0000		
Copper, total	ug/L	MW02-15A	09/04/2020	ND	4.0000		
Copper, total	ug/L	MW02-15A	03/09/2021		26.0000		*
Copper, total	ug/L	MW02-15A	09/07/2021	ND	4.0000		
Copper, total	ug/L	MW02-15A	03/28/2022	ND	4.0000		
Copper, total	ug/L	MW02-15A	09/14/2022	ND	4.0000		
Copper, total	ug/L	MW02-15A	03/20/2023	ND	4.0000		
Copper, total	ug/L	MW02-15A	09/12/2023	ND	4.0000		
Copper, total	ug/L	MW02-15A	03/12/2024	ND	4.0000		
Copper, total	ug/L	MW02-15A	09/30/2024	ND	4.0000		
Copper, total	ug/L	MW02-15A	03/24/2025	ND	4.0000		
Lead, total	ug/L	MW02-15A	09/18/2014		22.3000		*
Lead, total	ug/L	MW02-15A	11/13/2014	ND	4.0000		
Lead, total	ug/L	MW02-15A	03/17/2015	ND	4.0000		
Lead, total	ug/L	MW02-15A	06/29/2015	ND	4.0000		
Lead, total	ug/L	MW02-15A	09/11/2015	ND	4.0000		
Lead, total	ug/L	MW02-15A	03/16/2016	ND	4.0000		
Lead, total	ug/L	MW02-15A	09/08/2016	ND	4.0000		
Lead, total	ug/L	MW02-15A	03/17/2017	ND	4.0000		
Lead, total	ug/L	MW02-15A	09/19/2017	ND	4.0000		
Lead, total	ug/L	MW02-15A	03/08/2018	ND	4.0000		
Lead, total	ug/L	MW02-15A	09/24/2018	ND	4.0000		
Lead, total	ug/L	MW02-15A	03/25/2019	ND	4.0000		
Lead, total	ug/L	MW02-15A	09/03/2019	ND	4.0000		
Lead, total	ug/L	MW02-15A	03/23/2020	ND	4.0000		
Lead, total	ug/L	MW02-15A	09/04/2020	ND	4.0000		
Lead, total	ug/L	MW02-15A	03/09/2021	ND	4.0000		
Lead, total	ug/L	MW02-15A	09/07/2021	ND	4.0000		
Lead, total	ug/L	MW02-15A	03/28/2022	ND	4.0000		
Lead, total	ug/L	MW02-15A	09/14/2022	ND	4.0000		
Lead, total	ug/L	MW02-15A	03/20/2023	ND	4.0000		
Lead, total	ug/L	MW02-15A	09/12/2023	ND	4.0000		
Lead, total	ug/L	MW02-15A	03/12/2024	ND	4.0000		
Lead, total	ug/L	MW02-15A	09/30/2024	ND	4.0000		
Lead, total	ug/L	MW02-15A	03/24/2025	ND	4.0000		
Nickel, total	ug/L	MW02-15A	09/18/2014		10.4000		
Nickel, total	ug/L	MW02-15A	11/13/2014	ND	4.0000		
Nickel, total	ug/L	MW02-15A	03/17/2015	ND	4.0000		
Nickel, total	ug/L	MW02-15A	06/29/2015		5.6000		
Nickel, total	ug/L	MW02-15A	09/11/2015		8.3000		
Nickel, total	ug/L	MW02-15A	03/16/2016		10.3000		

* - Outlier for that well and constituent.

** - ND value replaced with median RL.

*** - ND value replaced with manual RL.

ND = Not detected, Result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Nickel, total	ug/L	MW02-15A	09/08/2016		14.0000		
Nickel, total	ug/L	MW02-15A	03/17/2017		11.9000		
Nickel, total	ug/L	MW02-15A	09/19/2017	ND	4.0000		
Nickel, total	ug/L	MW02-15A	03/08/2018	ND	4.0000		
Nickel, total	ug/L	MW02-15A	09/24/2018		5.7000		
Nickel, total	ug/L	MW02-15A	03/25/2019		9.9000		
Nickel, total	ug/L	MW02-15A	09/03/2019		9.1000		
Nickel, total	ug/L	MW02-15A	03/23/2020		9.7000		
Nickel, total	ug/L	MW02-15A	09/04/2020		9.9000		
Nickel, total	ug/L	MW02-15A	03/09/2021		9.6000		
Nickel, total	ug/L	MW02-15A	09/07/2021		17.3000		
Nickel, total	ug/L	MW02-15A	03/28/2022		11.3000		
Nickel, total	ug/L	MW02-15A	09/14/2022		8.8000		
Nickel, total	ug/L	MW02-15A	03/20/2023		9.8000		
Nickel, total	ug/L	MW02-15A	09/12/2023		8.4000		
Nickel, total	ug/L	MW02-15A	03/12/2024		6.6000		
Nickel, total	ug/L	MW02-15A	09/30/2024		6.3000		
Nickel, total	ug/L	MW02-15A	03/24/2025		4.4000		
Selenium, total	ug/L	MW02-15A	09/18/2014	ND	4.0000		
Selenium, total	ug/L	MW02-15A	11/13/2014	ND	4.0000		
Selenium, total	ug/L	MW02-15A	03/17/2015	ND	4.0000		
Selenium, total	ug/L	MW02-15A	06/29/2015	ND	4.0000		
Selenium, total	ug/L	MW02-15A	09/11/2015	ND	4.0000		
Selenium, total	ug/L	MW02-15A	03/16/2016	ND	4.0000		
Selenium, total	ug/L	MW02-15A	09/08/2016	ND	4.0000		
Selenium, total	ug/L	MW02-15A	03/17/2017	ND	4.0000		
Selenium, total	ug/L	MW02-15A	09/19/2017	ND	4.0000		
Selenium, total	ug/L	MW02-15A	03/08/2018	ND	4.0000		
Selenium, total	ug/L	MW02-15A	09/24/2018	ND	4.0000		
Selenium, total	ug/L	MW02-15A	03/25/2019	ND	4.0000		
Selenium, total	ug/L	MW02-15A	09/03/2019	ND	4.0000		
Selenium, total	ug/L	MW02-15A	03/23/2020	ND	4.0000		
Selenium, total	ug/L	MW02-15A	09/04/2020	ND	4.0000		
Selenium, total	ug/L	MW02-15A	03/09/2021	ND	4.0000		
Selenium, total	ug/L	MW02-15A	09/07/2021	ND	4.0000		
Selenium, total	ug/L	MW02-15A	03/28/2022	ND	4.0000		
Selenium, total	ug/L	MW02-15A	09/14/2022	ND	4.0000		
Selenium, total	ug/L	MW02-15A	03/20/2023	ND	4.0000		
Selenium, total	ug/L	MW02-15A	09/12/2023	ND	4.0000		
Selenium, total	ug/L	MW02-15A	03/12/2024	ND	4.0000		
Selenium, total	ug/L	MW02-15A	09/30/2024	ND	4.0000		
Selenium, total	ug/L	MW02-15A	03/24/2025	ND	4.0000		
Silver, total	ug/L	MW02-15A	09/18/2014	ND	4.0000		
Silver, total	ug/L	MW02-15A	11/13/2014	ND	4.0000		
Silver, total	ug/L	MW02-15A	03/17/2015	ND	4.0000		
Silver, total	ug/L	MW02-15A	06/29/2015	ND	4.0000		
Silver, total	ug/L	MW02-15A	09/11/2015	ND	4.0000		
Silver, total	ug/L	MW02-15A	03/16/2016	ND	4.0000		
Silver, total	ug/L	MW02-15A	09/08/2016	ND	4.0000		
Silver, total	ug/L	MW02-15A	03/17/2017	ND	4.0000		
Silver, total	ug/L	MW02-15A	09/19/2017	ND	4.0000		
Silver, total	ug/L	MW02-15A	03/08/2018	ND	4.0000		
Silver, total	ug/L	MW02-15A	09/24/2018	ND	4.0000		
Silver, total	ug/L	MW02-15A	03/25/2019	ND	4.0000		
Silver, total	ug/L	MW02-15A	09/03/2019	ND	4.0000		
Silver, total	ug/L	MW02-15A	03/23/2020	ND	4.0000		
Silver, total	ug/L	MW02-15A	09/04/2020	ND	4.0000		
Silver, total	ug/L	MW02-15A	03/09/2021	ND	4.0000		
Silver, total	ug/L	MW02-15A	09/07/2021	ND	4.0000		
Silver, total	ug/L	MW02-15A	03/28/2022	ND	4.0000		
Silver, total	ug/L	MW02-15A	09/14/2022	ND	4.0000		
Silver, total	ug/L	MW02-15A	03/20/2023	ND	4.0000		
Silver, total	ug/L	MW02-15A	09/12/2023	ND	4.0000		
Silver, total	ug/L	MW02-15A	03/12/2024	ND	4.0000		
Silver, total	ug/L	MW02-15A	09/30/2024	ND	4.0000		
Silver, total	ug/L	MW02-15A	03/24/2025	ND	4.0000		
Thallium, total	ug/L	MW02-15A	09/18/2014	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW02-15A	11/13/2014	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW02-15A	03/17/2015	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW02-15A	06/29/2015	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW02-15A	09/11/2015	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW02-15A	03/16/2016	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW02-15A	09/08/2016	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW02-15A	03/17/2017	ND	4.0000	2.0000	**

* - Outlier for that well and constituent.

** - ND value replaced with median RL.

*** - ND value replaced with manual RL.

ND = Not detected, Result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Thallium, total	ug/L	MW02-15A	09/19/2017	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW02-15A	03/08/2018	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW02-15A	09/24/2018	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW02-15A	03/25/2019	ND	2.0000		
Thallium, total	ug/L	MW02-15A	09/03/2019	ND	2.0000		
Thallium, total	ug/L	MW02-15A	03/23/2020	ND	2.0000		
Thallium, total	ug/L	MW02-15A	09/04/2020	ND	2.0000		
Thallium, total	ug/L	MW02-15A	03/09/2021	ND	2.0000		
Thallium, total	ug/L	MW02-15A	09/07/2021	ND	2.0000		
Thallium, total	ug/L	MW02-15A	03/28/2022	ND	2.0000		
Thallium, total	ug/L	MW02-15A	09/14/2022	ND	2.0000		
Thallium, total	ug/L	MW02-15A	03/20/2023	ND	2.0000		
Thallium, total	ug/L	MW02-15A	09/12/2023	ND	2.0000		
Thallium, total	ug/L	MW02-15A	03/12/2024	ND	2.0000		
Thallium, total	ug/L	MW02-15A	09/30/2024	ND	2.0000		
Thallium, total	ug/L	MW02-15A	03/24/2025	ND	2.0000		
Vanadium, total	ug/L	MW02-15A	09/18/2014	ND	20.0000		
Vanadium, total	ug/L	MW02-15A	11/13/2014	ND	20.0000		
Vanadium, total	ug/L	MW02-15A	03/17/2015	ND	20.0000		
Vanadium, total	ug/L	MW02-15A	06/29/2015	ND	20.0000		
Vanadium, total	ug/L	MW02-15A	09/11/2015	ND	20.0000		
Vanadium, total	ug/L	MW02-15A	03/16/2016	ND	20.0000		
Vanadium, total	ug/L	MW02-15A	09/08/2016	ND	20.0000		
Vanadium, total	ug/L	MW02-15A	03/17/2017	ND	20.0000		
Vanadium, total	ug/L	MW02-15A	09/19/2017	ND	20.0000		
Vanadium, total	ug/L	MW02-15A	03/08/2018	ND	20.0000		
Vanadium, total	ug/L	MW02-15A	09/24/2018	ND	20.0000		
Vanadium, total	ug/L	MW02-15A	03/25/2019	ND	20.0000		
Vanadium, total	ug/L	MW02-15A	09/03/2019	ND	20.0000		
Vanadium, total	ug/L	MW02-15A	03/23/2020	ND	20.0000		
Vanadium, total	ug/L	MW02-15A	09/04/2020	ND	20.0000		
Vanadium, total	ug/L	MW02-15A	03/09/2021	ND	20.0000		
Vanadium, total	ug/L	MW02-15A	09/07/2021	ND	20.0000		
Vanadium, total	ug/L	MW02-15A	03/28/2022	ND	20.0000		
Vanadium, total	ug/L	MW02-15A	09/14/2022	ND	20.0000		
Vanadium, total	ug/L	MW02-15A	03/20/2023	ND	20.0000		
Vanadium, total	ug/L	MW02-15A	09/12/2023	ND	20.0000		
Vanadium, total	ug/L	MW02-15A	03/12/2024	ND	20.0000		
Vanadium, total	ug/L	MW02-15A	09/30/2024	ND	20.0000		
Vanadium, total	ug/L	MW02-15A	03/24/2025	ND	20.0000		
Zinc, total	ug/L	MW02-15A	09/18/2014		11.3000		
Zinc, total	ug/L	MW02-15A	11/13/2014	ND	20.0000		
Zinc, total	ug/L	MW02-15A	03/17/2015	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW02-15A	06/29/2015	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW02-15A	09/11/2015	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW02-15A	03/16/2016	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW02-15A	09/08/2016	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW02-15A	03/17/2017	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW02-15A	09/19/2017	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW02-15A	03/08/2018		9.3000		
Zinc, total	ug/L	MW02-15A	09/24/2018	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW02-15A	03/25/2019	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW02-15A	09/03/2019	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW02-15A	03/23/2020	ND	20.0000		
Zinc, total	ug/L	MW02-15A	09/04/2020	ND	20.0000		
Zinc, total	ug/L	MW02-15A	03/09/2021	ND	20.0000		
Zinc, total	ug/L	MW02-15A	09/07/2021	ND	20.0000		
Zinc, total	ug/L	MW02-15A	03/28/2022	ND	20.0000		
Zinc, total	ug/L	MW02-15A	09/14/2022	ND	20.0000		
Zinc, total	ug/L	MW02-15A	03/20/2023	ND	20.0000		
Zinc, total	ug/L	MW02-15A	09/12/2023	ND	20.0000		
Zinc, total	ug/L	MW02-15A	03/12/2024	ND	20.0000		
Zinc, total	ug/L	MW02-15A	09/30/2024	ND	20.0000		
Zinc, total	ug/L	MW02-15A	03/24/2025	ND	20.0000		
Antimony, total	ug/L	MW02-30A	03/16/2016	ND	2.0000		
Antimony, total	ug/L	MW02-30A	06/07/2016	ND	2.0000		
Antimony, total	ug/L	MW02-30A	09/08/2016	ND	2.0000		
Antimony, total	ug/L	MW02-30A	03/17/2017	ND	2.0000		
Antimony, total	ug/L	MW02-30A	09/19/2017	ND	2.0000		
Antimony, total	ug/L	MW02-30A	03/08/2018	ND	2.0000		
Antimony, total	ug/L	MW02-30A	09/24/2018	ND	2.0000		
Antimony, total	ug/L	MW02-30A	03/25/2019	ND	2.0000		
Antimony, total	ug/L	MW02-30A	09/03/2019	ND	2.0000		
Antimony, total	ug/L	MW02-30A	03/23/2020	ND	2.0000		

* - Outlier for that well and constituent.

** - ND value replaced with median RL.

*** - ND value replaced with manual RL.

ND = Not detected, Result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Antimony, total	ug/L	MW02-30A	09/04/2020	ND	2.0000		
Antimony, total	ug/L	MW02-30A	03/09/2021	ND	2.0000		
Antimony, total	ug/L	MW02-30A	09/07/2021	ND	2.0000		
Antimony, total	ug/L	MW02-30A	03/28/2022	ND	2.0000		
Antimony, total	ug/L	MW02-30A	09/14/2022	ND	2.0000		
Antimony, total	ug/L	MW02-30A	03/20/2023	ND	2.0000		
Antimony, total	ug/L	MW02-30A	09/12/2023	ND	2.0000		
Antimony, total	ug/L	MW02-30A	03/12/2024	ND	2.0000		
Antimony, total	ug/L	MW02-30A	09/30/2024	ND	2.0000		
Antimony, total	ug/L	MW02-30A	03/24/2025	ND	2.0000		
Arsenic, total	ug/L	MW02-30A	03/16/2016		43.9000		
Arsenic, total	ug/L	MW02-30A	06/07/2016		34.2000		
Arsenic, total	ug/L	MW02-30A	09/08/2016		37.5000		
Arsenic, total	ug/L	MW02-30A	03/17/2017		30.0000		
Arsenic, total	ug/L	MW02-30A	09/19/2017		24.3000		
Arsenic, total	ug/L	MW02-30A	03/08/2018		25.7000		
Arsenic, total	ug/L	MW02-30A	09/24/2018		26.2000		
Arsenic, total	ug/L	MW02-30A	03/25/2019		30.9000		
Arsenic, total	ug/L	MW02-30A	09/03/2019		32.7000		
Arsenic, total	ug/L	MW02-30A	03/23/2020		29.1000		
Arsenic, total	ug/L	MW02-30A	09/04/2020		43.5000		
Arsenic, total	ug/L	MW02-30A	03/09/2021		27.6000		
Arsenic, total	ug/L	MW02-30A	09/07/2021		36.6000		
Arsenic, total	ug/L	MW02-30A	03/28/2022		34.4000		
Arsenic, total	ug/L	MW02-30A	09/14/2022		50.6000		
Arsenic, total	ug/L	MW02-30A	03/20/2023		50.1000		
Arsenic, total	ug/L	MW02-30A	09/12/2023		27.9000		
Arsenic, total	ug/L	MW02-30A	03/12/2024		44.3000		
Arsenic, total	ug/L	MW02-30A	09/30/2024		41.0000		
Arsenic, total	ug/L	MW02-30A	03/24/2025		38.3000		
Barium, total	ug/L	MW02-30A	03/16/2016		85.6000		
Barium, total	ug/L	MW02-30A	06/07/2016		71.3000		
Barium, total	ug/L	MW02-30A	09/08/2016		62.8000		
Barium, total	ug/L	MW02-30A	03/17/2017		35.6000		
Barium, total	ug/L	MW02-30A	09/19/2017		77.3000		
Barium, total	ug/L	MW02-30A	03/08/2018		79.6000		
Barium, total	ug/L	MW02-30A	09/24/2018		96.5000		
Barium, total	ug/L	MW02-30A	03/25/2019		131.0000		
Barium, total	ug/L	MW02-30A	09/03/2019		91.8000		
Barium, total	ug/L	MW02-30A	03/23/2020		102.0000		
Barium, total	ug/L	MW02-30A	09/04/2020		93.4000		
Barium, total	ug/L	MW02-30A	03/09/2021		81.5000		
Barium, total	ug/L	MW02-30A	09/07/2021		88.2000		
Barium, total	ug/L	MW02-30A	03/28/2022		93.4000		
Barium, total	ug/L	MW02-30A	09/14/2022		159.0000		
Barium, total	ug/L	MW02-30A	03/20/2023		207.0000		
Barium, total	ug/L	MW02-30A	09/12/2023		71.8000		
Barium, total	ug/L	MW02-30A	03/12/2024		120.0000		
Barium, total	ug/L	MW02-30A	09/30/2024		86.8000		
Barium, total	ug/L	MW02-30A	03/24/2025		85.7000		
Beryllium, total	ug/L	MW02-30A	03/16/2016	ND	4.0000		
Beryllium, total	ug/L	MW02-30A	06/07/2016	ND	4.0000		
Beryllium, total	ug/L	MW02-30A	09/08/2016	ND	4.0000		
Beryllium, total	ug/L	MW02-30A	03/17/2017	ND	4.0000		
Beryllium, total	ug/L	MW02-30A	09/19/2017	ND	4.0000		
Beryllium, total	ug/L	MW02-30A	03/08/2018	ND	4.0000		
Beryllium, total	ug/L	MW02-30A	09/24/2018	ND	4.0000		
Beryllium, total	ug/L	MW02-30A	03/25/2019	ND	4.0000		
Beryllium, total	ug/L	MW02-30A	09/03/2019	ND	4.0000		
Beryllium, total	ug/L	MW02-30A	03/23/2020	ND	4.0000		
Beryllium, total	ug/L	MW02-30A	09/04/2020	ND	4.0000		
Beryllium, total	ug/L	MW02-30A	03/09/2021	ND	4.0000		
Beryllium, total	ug/L	MW02-30A	09/07/2021	ND	4.0000		
Beryllium, total	ug/L	MW02-30A	03/28/2022	ND	4.0000		
Beryllium, total	ug/L	MW02-30A	09/14/2022	ND	4.0000		
Beryllium, total	ug/L	MW02-30A	03/20/2023	ND	4.0000		
Beryllium, total	ug/L	MW02-30A	09/12/2023	ND	4.0000		
Beryllium, total	ug/L	MW02-30A	03/12/2024	ND	4.0000		
Beryllium, total	ug/L	MW02-30A	09/30/2024	ND	4.0000		
Beryllium, total	ug/L	MW02-30A	03/24/2025	ND	4.0000		
Cadmium, total	ug/L	MW02-30A	03/16/2016	ND	0.8000		
Cadmium, total	ug/L	MW02-30A	06/07/2016	ND	0.8000		
Cadmium, total	ug/L	MW02-30A	09/08/2016	ND	0.8000		
Cadmium, total	ug/L	MW02-30A	03/17/2017	ND	0.8000		

* - Outlier for that well and constituent.

** - ND value replaced with median RL.

*** - ND value replaced with manual RL.

ND = Not detected, Result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Cadmium, total	ug/L	MW02-30A	09/19/2017	ND	0.8000		
Cadmium, total	ug/L	MW02-30A	03/08/2018	ND	0.8000		
Cadmium, total	ug/L	MW02-30A	09/24/2018	ND	0.8000		
Cadmium, total	ug/L	MW02-30A	03/25/2019	ND	0.8000		
Cadmium, total	ug/L	MW02-30A	09/03/2019	ND	0.8000		
Cadmium, total	ug/L	MW02-30A	03/23/2020	ND	0.8000		
Cadmium, total	ug/L	MW02-30A	09/04/2020	ND	0.8000		
Cadmium, total	ug/L	MW02-30A	03/09/2021	ND	0.8000		
Cadmium, total	ug/L	MW02-30A	09/07/2021	ND	0.8000		
Cadmium, total	ug/L	MW02-30A	03/28/2022	ND	0.8000		
Cadmium, total	ug/L	MW02-30A	09/14/2022		0.8000		
Cadmium, total	ug/L	MW02-30A	03/20/2023		1.8000		
Cadmium, total	ug/L	MW02-30A	09/12/2023	ND	0.8000		
Cadmium, total	ug/L	MW02-30A	03/12/2024	ND	0.8000		
Cadmium, total	ug/L	MW02-30A	09/30/2024	ND	0.8000		
Cadmium, total	ug/L	MW02-30A	03/24/2025	ND	0.8000		
Chromium, total	ug/L	MW02-30A	03/16/2016	ND	8.0000		
Chromium, total	ug/L	MW02-30A	06/07/2016	ND	8.0000		
Chromium, total	ug/L	MW02-30A	09/08/2016	ND	8.0000		
Chromium, total	ug/L	MW02-30A	03/17/2017	ND	8.0000		
Chromium, total	ug/L	MW02-30A	09/19/2017	ND	8.0000		
Chromium, total	ug/L	MW02-30A	03/08/2018	ND	8.0000		
Chromium, total	ug/L	MW02-30A	09/24/2018	ND	8.0000		
Chromium, total	ug/L	MW02-30A	03/25/2019	ND	8.0000		
Chromium, total	ug/L	MW02-30A	09/03/2019	ND	8.0000		
Chromium, total	ug/L	MW02-30A	03/23/2020	ND	8.0000		
Chromium, total	ug/L	MW02-30A	09/04/2020	ND	8.0000		
Chromium, total	ug/L	MW02-30A	03/09/2021	ND	8.0000		
Chromium, total	ug/L	MW02-30A	09/07/2021	ND	8.0000		
Chromium, total	ug/L	MW02-30A	03/28/2022	ND	8.0000		
Chromium, total	ug/L	MW02-30A	09/14/2022		9.0000		
Chromium, total	ug/L	MW02-30A	03/20/2023		10.6000		
Chromium, total	ug/L	MW02-30A	09/12/2023	ND	8.0000		
Chromium, total	ug/L	MW02-30A	03/12/2024	ND	8.0000		
Chromium, total	ug/L	MW02-30A	09/30/2024	ND	8.0000		
Chromium, total	ug/L	MW02-30A	03/24/2025	ND	8.0000		
Cobalt, total	ug/L	MW02-30A	03/16/2016		1.0000		
Cobalt, total	ug/L	MW02-30A	06/07/2016		1.2000		
Cobalt, total	ug/L	MW02-30A	09/08/2016	ND	0.8000		
Cobalt, total	ug/L	MW02-30A	03/17/2017	ND	0.8000		
Cobalt, total	ug/L	MW02-30A	09/19/2017	ND	0.8000		
Cobalt, total	ug/L	MW02-30A	03/08/2018	ND	0.8000		
Cobalt, total	ug/L	MW02-30A	09/24/2018		1.8000		
Cobalt, total	ug/L	MW02-30A	03/25/2019		3.2000		
Cobalt, total	ug/L	MW02-30A	09/03/2019		0.8000		
Cobalt, total	ug/L	MW02-30A	03/23/2020		2.3000		
Cobalt, total	ug/L	MW02-30A	09/04/2020		0.4000		
Cobalt, total	ug/L	MW02-30A	03/09/2021		1.5000		
Cobalt, total	ug/L	MW02-30A	09/07/2021	ND	0.4000	0.8000	**
Cobalt, total	ug/L	MW02-30A	03/28/2022		0.4000		
Cobalt, total	ug/L	MW02-30A	09/14/2022		7.0000		
Cobalt, total	ug/L	MW02-30A	03/20/2023		4.5000		
Cobalt, total	ug/L	MW02-30A	09/12/2023	ND	0.4000	0.8000	**
Cobalt, total	ug/L	MW02-30A	03/12/2024		0.6000		
Cobalt, total	ug/L	MW02-30A	09/30/2024	ND	0.4000	0.8000	**
Cobalt, total	ug/L	MW02-30A	03/24/2025	ND	0.4000	0.8000	**
Copper, total	ug/L	MW02-30A	03/16/2016	ND	4.0000		
Copper, total	ug/L	MW02-30A	06/07/2016	ND	4.0000		
Copper, total	ug/L	MW02-30A	09/08/2016	ND	4.0000		
Copper, total	ug/L	MW02-30A	03/17/2017	ND	4.0000		
Copper, total	ug/L	MW02-30A	09/19/2017	ND	4.0000		
Copper, total	ug/L	MW02-30A	03/08/2018	ND	4.0000		
Copper, total	ug/L	MW02-30A	09/24/2018		4.8000		
Copper, total	ug/L	MW02-30A	03/25/2019		13.5000		
Copper, total	ug/L	MW02-30A	09/03/2019	ND	4.0000		
Copper, total	ug/L	MW02-30A	03/23/2020		9.3000		
Copper, total	ug/L	MW02-30A	09/04/2020	ND	4.0000		
Copper, total	ug/L	MW02-30A	03/09/2021		9.4000		
Copper, total	ug/L	MW02-30A	09/07/2021	ND	4.0000		
Copper, total	ug/L	MW02-30A	03/28/2022	ND	4.0000		
Copper, total	ug/L	MW02-30A	09/14/2022		19.5000		
Copper, total	ug/L	MW02-30A	03/20/2023		18.3000		
Copper, total	ug/L	MW02-30A	09/12/2023	ND	4.0000		
Copper, total	ug/L	MW02-30A	03/12/2024	ND	4.0000		

* - Outlier for that well and constituent.

** - ND value replaced with median RL.

*** - ND value replaced with manual RL.

ND = Not detected, Result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Copper, total	ug/L	MW02-30A	09/30/2024	ND	4.0000		
Copper, total	ug/L	MW02-30A	03/24/2025	ND	4.0000		
Lead, total	ug/L	MW02-30A	03/16/2016	ND	4.0000		
Lead, total	ug/L	MW02-30A	06/07/2016	ND	4.0000		
Lead, total	ug/L	MW02-30A	09/08/2016	ND	4.0000		
Lead, total	ug/L	MW02-30A	03/17/2017	ND	4.0000		
Lead, total	ug/L	MW02-30A	09/19/2017	ND	4.0000		
Lead, total	ug/L	MW02-30A	03/08/2018	ND	4.0000		
Lead, total	ug/L	MW02-30A	09/24/2018	ND	4.0000		
Lead, total	ug/L	MW02-30A	03/25/2019		8.9000		
Lead, total	ug/L	MW02-30A	09/03/2019	ND	4.0000		
Lead, total	ug/L	MW02-30A	03/23/2020		7.0000		
Lead, total	ug/L	MW02-30A	09/04/2020	ND	4.0000		
Lead, total	ug/L	MW02-30A	03/09/2021	ND	4.0000		
Lead, total	ug/L	MW02-30A	09/07/2021	ND	4.0000		
Lead, total	ug/L	MW02-30A	03/28/2022	ND	4.0000		
Lead, total	ug/L	MW02-30A	09/14/2022		14.8000		*
Lead, total	ug/L	MW02-30A	03/20/2023		22.3000		*
Lead, total	ug/L	MW02-30A	09/12/2023	ND	4.0000		
Lead, total	ug/L	MW02-30A	03/12/2024	ND	4.0000		
Lead, total	ug/L	MW02-30A	09/30/2024	ND	4.0000		
Lead, total	ug/L	MW02-30A	03/24/2025	ND	4.0000		
Nickel, total	ug/L	MW02-30A	03/16/2016	ND	4.0000		
Nickel, total	ug/L	MW02-30A	06/07/2016	ND	4.0000		
Nickel, total	ug/L	MW02-30A	09/08/2016	ND	4.0000		
Nickel, total	ug/L	MW02-30A	03/17/2017	ND	4.0000		
Nickel, total	ug/L	MW02-30A	09/19/2017	ND	4.0000		
Nickel, total	ug/L	MW02-30A	03/08/2018	ND	4.0000		
Nickel, total	ug/L	MW02-30A	09/24/2018	ND	4.0000		
Nickel, total	ug/L	MW02-30A	03/25/2019		9.4000		
Nickel, total	ug/L	MW02-30A	09/03/2019	ND	4.0000		
Nickel, total	ug/L	MW02-30A	03/23/2020		7.0000		
Nickel, total	ug/L	MW02-30A	09/04/2020	ND	4.0000		
Nickel, total	ug/L	MW02-30A	03/09/2021		4.3000		
Nickel, total	ug/L	MW02-30A	09/07/2021	ND	4.0000		
Nickel, total	ug/L	MW02-30A	03/28/2022	ND	4.0000		
Nickel, total	ug/L	MW02-30A	09/14/2022		12.4000		
Nickel, total	ug/L	MW02-30A	03/20/2023		12.9000		
Nickel, total	ug/L	MW02-30A	09/12/2023	ND	4.0000		
Nickel, total	ug/L	MW02-30A	03/12/2024	ND	4.0000		
Nickel, total	ug/L	MW02-30A	09/30/2024	ND	4.0000		
Nickel, total	ug/L	MW02-30A	03/24/2025	ND	4.0000		
Selenium, total	ug/L	MW02-30A	03/16/2016	ND	4.0000		
Selenium, total	ug/L	MW02-30A	06/07/2016	ND	4.0000		
Selenium, total	ug/L	MW02-30A	09/08/2016	ND	4.0000		
Selenium, total	ug/L	MW02-30A	03/17/2017	ND	4.0000		
Selenium, total	ug/L	MW02-30A	09/19/2017	ND	4.0000		
Selenium, total	ug/L	MW02-30A	03/08/2018	ND	4.0000		
Selenium, total	ug/L	MW02-30A	09/24/2018	ND	4.0000		
Selenium, total	ug/L	MW02-30A	03/25/2019	ND	4.0000		
Selenium, total	ug/L	MW02-30A	09/03/2019	ND	4.0000		
Selenium, total	ug/L	MW02-30A	03/23/2020	ND	4.0000		
Selenium, total	ug/L	MW02-30A	09/04/2020	ND	4.0000		
Selenium, total	ug/L	MW02-30A	03/09/2021	ND	4.0000		
Selenium, total	ug/L	MW02-30A	09/07/2021	ND	4.0000		
Selenium, total	ug/L	MW02-30A	03/28/2022	ND	4.0000		
Selenium, total	ug/L	MW02-30A	09/14/2022	ND	4.0000		
Selenium, total	ug/L	MW02-30A	03/20/2023	ND	4.0000		
Selenium, total	ug/L	MW02-30A	09/12/2023	ND	4.0000		
Selenium, total	ug/L	MW02-30A	03/12/2024	ND	4.0000		
Selenium, total	ug/L	MW02-30A	09/30/2024	ND	4.0000		
Selenium, total	ug/L	MW02-30A	03/24/2025	ND	4.0000		
Silver, total	ug/L	MW02-30A	03/16/2016	ND	4.0000		
Silver, total	ug/L	MW02-30A	06/07/2016	ND	4.0000		
Silver, total	ug/L	MW02-30A	09/08/2016	ND	4.0000		
Silver, total	ug/L	MW02-30A	03/17/2017	ND	4.0000		
Silver, total	ug/L	MW02-30A	09/19/2017	ND	4.0000		
Silver, total	ug/L	MW02-30A	03/08/2018	ND	4.0000		
Silver, total	ug/L	MW02-30A	09/24/2018	ND	4.0000		
Silver, total	ug/L	MW02-30A	03/25/2019	ND	4.0000		
Silver, total	ug/L	MW02-30A	09/03/2019	ND	4.0000		
Silver, total	ug/L	MW02-30A	03/23/2020	ND	4.0000		
Silver, total	ug/L	MW02-30A	09/04/2020	ND	4.0000		
Silver, total	ug/L	MW02-30A	03/09/2021	ND	4.0000		

* - Outlier for that well and constituent.

** - ND value replaced with median RL.

*** - ND value replaced with manual RL.

ND = Not detected, Result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Silver, total	ug/L	MW02-30A	09/07/2021	ND	4.0000		
Silver, total	ug/L	MW02-30A	03/28/2022	ND	4.0000		
Silver, total	ug/L	MW02-30A	09/14/2022	ND	4.0000		
Silver, total	ug/L	MW02-30A	03/20/2023	ND	4.0000		
Silver, total	ug/L	MW02-30A	09/12/2023	ND	4.0000		
Silver, total	ug/L	MW02-30A	03/12/2024	ND	4.0000		
Silver, total	ug/L	MW02-30A	09/30/2024	ND	4.0000		
Silver, total	ug/L	MW02-30A	03/24/2025	ND	4.0000		
Thallium, total	ug/L	MW02-30A	03/16/2016	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW02-30A	06/07/2016	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW02-30A	09/08/2016	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW02-30A	03/17/2017	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW02-30A	09/19/2017	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW02-30A	03/08/2018	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW02-30A	09/24/2018	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW02-30A	03/25/2019	ND	2.0000		
Thallium, total	ug/L	MW02-30A	09/03/2019	ND	2.0000		
Thallium, total	ug/L	MW02-30A	03/23/2020	ND	2.0000		
Thallium, total	ug/L	MW02-30A	09/04/2020	ND	2.0000		
Thallium, total	ug/L	MW02-30A	03/09/2021	ND	2.0000		
Thallium, total	ug/L	MW02-30A	09/07/2021	ND	2.0000		
Thallium, total	ug/L	MW02-30A	03/28/2022	ND	2.0000		
Thallium, total	ug/L	MW02-30A	09/14/2022	ND	2.0000		
Thallium, total	ug/L	MW02-30A	03/20/2023	ND	2.0000		
Thallium, total	ug/L	MW02-30A	09/12/2023	ND	2.0000		
Thallium, total	ug/L	MW02-30A	03/12/2024	ND	2.0000		
Thallium, total	ug/L	MW02-30A	09/30/2024	ND	2.0000		
Thallium, total	ug/L	MW02-30A	03/24/2025	ND	2.0000		
Vanadium, total	ug/L	MW02-30A	03/16/2016	ND	20.0000		
Vanadium, total	ug/L	MW02-30A	06/07/2016	ND	20.0000		
Vanadium, total	ug/L	MW02-30A	09/08/2016	ND	20.0000		
Vanadium, total	ug/L	MW02-30A	03/17/2017	ND	20.0000		
Vanadium, total	ug/L	MW02-30A	09/19/2017	ND	20.0000		
Vanadium, total	ug/L	MW02-30A	03/08/2018	ND	20.0000		
Vanadium, total	ug/L	MW02-30A	09/24/2018	ND	20.0000		
Vanadium, total	ug/L	MW02-30A	03/25/2019	ND	20.0000		
Vanadium, total	ug/L	MW02-30A	09/03/2019	ND	20.0000		
Vanadium, total	ug/L	MW02-30A	03/23/2020	ND	20.0000		
Vanadium, total	ug/L	MW02-30A	09/04/2020	ND	20.0000		
Vanadium, total	ug/L	MW02-30A	03/09/2021	ND	20.0000		
Vanadium, total	ug/L	MW02-30A	09/07/2021	ND	20.0000		
Vanadium, total	ug/L	MW02-30A	03/28/2022	ND	20.0000		
Vanadium, total	ug/L	MW02-30A	09/14/2022	ND	20.0000		
Vanadium, total	ug/L	MW02-30A	03/20/2023	ND	20.0000		
Vanadium, total	ug/L	MW02-30A	09/12/2023	ND	20.0000		
Vanadium, total	ug/L	MW02-30A	03/12/2024	ND	20.0000		
Vanadium, total	ug/L	MW02-30A	09/30/2024	ND	20.0000		
Vanadium, total	ug/L	MW02-30A	03/24/2025	ND	20.0000		
Zinc, total	ug/L	MW02-30A	03/16/2016	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW02-30A	06/07/2016		8.7000		
Zinc, total	ug/L	MW02-30A	09/08/2016		9.9000		
Zinc, total	ug/L	MW02-30A	03/17/2017	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW02-30A	09/19/2017	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW02-30A	03/08/2018	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW02-30A	09/24/2018		12.9000		
Zinc, total	ug/L	MW02-30A	03/25/2019		59.9000		
Zinc, total	ug/L	MW02-30A	09/03/2019		16.3000		
Zinc, total	ug/L	MW02-30A	03/23/2020		28.5000		
Zinc, total	ug/L	MW02-30A	09/04/2020	ND	20.0000		
Zinc, total	ug/L	MW02-30A	03/09/2021	ND	20.0000		
Zinc, total	ug/L	MW02-30A	09/07/2021	ND	20.0000		
Zinc, total	ug/L	MW02-30A	03/28/2022	ND	20.0000		
Zinc, total	ug/L	MW02-30A	09/14/2022		52.8000		
Zinc, total	ug/L	MW02-30A	03/20/2023		144.0000		
Zinc, total	ug/L	MW02-30A	09/12/2023	ND	20.0000		
Zinc, total	ug/L	MW02-30A	03/12/2024	ND	20.0000		
Zinc, total	ug/L	MW02-30A	09/30/2024	ND	20.0000		
Zinc, total	ug/L	MW02-30A	03/24/2025	ND	20.0000		
Antimony, total	ug/L	MW88-2	09/18/2014	ND	2.0000		
Antimony, total	ug/L	MW88-2	11/13/2014	ND	2.0000		
Antimony, total	ug/L	MW88-2	03/17/2015	ND	2.0000		
Antimony, total	ug/L	MW88-2	06/29/2015	ND	2.0000		
Antimony, total	ug/L	MW88-2	09/11/2015	ND	2.0000		
Antimony, total	ug/L	MW88-2	03/16/2016	ND	2.0000		

* - Outlier for that well and constituent.

** - ND value replaced with median RL.

*** - ND value replaced with manual RL.

ND = Not detected, Result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Antimony, total	ug/L	MW88-2	09/08/2016	ND	2.0000		
Antimony, total	ug/L	MW88-2	03/17/2017	ND	2.0000		
Antimony, total	ug/L	MW88-2	09/19/2017	ND	2.0000		
Antimony, total	ug/L	MW88-2	03/08/2018	ND	2.0000		
Antimony, total	ug/L	MW88-2	09/24/2018	ND	2.0000		
Antimony, total	ug/L	MW88-2	03/25/2019	ND	2.0000		
Antimony, total	ug/L	MW88-2	09/03/2019	ND	2.0000		
Antimony, total	ug/L	MW88-2	03/23/2020	ND	2.0000		
Antimony, total	ug/L	MW88-2	09/04/2020	ND	2.0000		
Antimony, total	ug/L	MW88-2	03/09/2021	ND	2.0000		
Antimony, total	ug/L	MW88-2	03/28/2022	ND	2.0000		
Antimony, total	ug/L	MW88-2	09/14/2022	ND	2.0000		
Antimony, total	ug/L	MW88-2	03/20/2023	ND	2.0000		
Antimony, total	ug/L	MW88-2	09/12/2023	ND	2.0000		
Antimony, total	ug/L	MW88-2	03/12/2024	ND	2.0000		
Antimony, total	ug/L	MW88-2	09/30/2024	ND	2.0000		
Antimony, total	ug/L	MW88-2	03/24/2025	ND	2.0000		
Arsenic, total	ug/L	MW88-2	09/18/2014		16.1000		
Arsenic, total	ug/L	MW88-2	11/13/2014		7.4000		
Arsenic, total	ug/L	MW88-2	03/17/2015	ND	4.0000		
Arsenic, total	ug/L	MW88-2	06/29/2015	ND	4.0000		
Arsenic, total	ug/L	MW88-2	09/11/2015	ND	4.0000		
Arsenic, total	ug/L	MW88-2	03/16/2016	ND	4.0000		
Arsenic, total	ug/L	MW88-2	09/08/2016		6.6000		
Arsenic, total	ug/L	MW88-2	03/17/2017	ND	4.0000		
Arsenic, total	ug/L	MW88-2	09/19/2017	ND	4.0000		
Arsenic, total	ug/L	MW88-2	03/08/2018		6.1000		
Arsenic, total	ug/L	MW88-2	09/24/2018		24.3000		
Arsenic, total	ug/L	MW88-2	03/25/2019		11.0000		
Arsenic, total	ug/L	MW88-2	09/03/2019		10.6000		
Arsenic, total	ug/L	MW88-2	03/23/2020	ND	4.0000		
Arsenic, total	ug/L	MW88-2	09/04/2020	ND	4.0000		
Arsenic, total	ug/L	MW88-2	03/09/2021		10.4000		
Arsenic, total	ug/L	MW88-2	03/28/2022	ND	4.0000		
Arsenic, total	ug/L	MW88-2	09/14/2022	ND	4.0000		
Arsenic, total	ug/L	MW88-2	03/20/2023	ND	4.0000		
Arsenic, total	ug/L	MW88-2	09/12/2023		5.1000		
Arsenic, total	ug/L	MW88-2	03/12/2024		12.7000		
Arsenic, total	ug/L	MW88-2	09/30/2024		19.3000		
Arsenic, total	ug/L	MW88-2	03/24/2025	ND	4.0000		
Barium, total	ug/L	MW88-2	09/18/2014		661.0000		
Barium, total	ug/L	MW88-2	11/13/2014		751.0000		
Barium, total	ug/L	MW88-2	03/17/2015		595.0000		
Barium, total	ug/L	MW88-2	06/29/2015		451.0000		
Barium, total	ug/L	MW88-2	09/11/2015		296.0000		
Barium, total	ug/L	MW88-2	03/16/2016		95.8000		
Barium, total	ug/L	MW88-2	09/08/2016		411.0000		
Barium, total	ug/L	MW88-2	03/17/2017		179.0000		
Barium, total	ug/L	MW88-2	09/19/2017		684.0000		
Barium, total	ug/L	MW88-2	03/08/2018		632.0000		
Barium, total	ug/L	MW88-2	09/24/2018		371.0000		
Barium, total	ug/L	MW88-2	03/25/2019		273.0000		
Barium, total	ug/L	MW88-2	09/03/2019		97.7000		
Barium, total	ug/L	MW88-2	03/23/2020		75.7000		
Barium, total	ug/L	MW88-2	09/04/2020		623.0000		
Barium, total	ug/L	MW88-2	03/09/2021		874.0000		
Barium, total	ug/L	MW88-2	03/28/2022		274.0000		
Barium, total	ug/L	MW88-2	09/14/2022		376.0000		
Barium, total	ug/L	MW88-2	03/20/2023		152.0000		
Barium, total	ug/L	MW88-2	09/12/2023		287.0000		
Barium, total	ug/L	MW88-2	03/12/2024		270.0000		
Barium, total	ug/L	MW88-2	09/30/2024		357.0000		
Barium, total	ug/L	MW88-2	03/24/2025		297.0000		
Beryllium, total	ug/L	MW88-2	09/18/2014	ND	4.0000		
Beryllium, total	ug/L	MW88-2	11/13/2014	ND	4.0000		
Beryllium, total	ug/L	MW88-2	03/17/2015	ND	4.0000		
Beryllium, total	ug/L	MW88-2	06/29/2015	ND	4.0000		
Beryllium, total	ug/L	MW88-2	09/11/2015	ND	4.0000		
Beryllium, total	ug/L	MW88-2	03/16/2016	ND	4.0000		
Beryllium, total	ug/L	MW88-2	09/08/2016	ND	4.0000		
Beryllium, total	ug/L	MW88-2	03/17/2017	ND	4.0000		
Beryllium, total	ug/L	MW88-2	09/19/2017	ND	4.0000		
Beryllium, total	ug/L	MW88-2	03/08/2018	ND	4.0000		
Beryllium, total	ug/L	MW88-2	09/24/2018	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	MW88-2	03/25/2019	ND	4.0000		
Beryllium, total	ug/L	MW88-2	09/03/2019	ND	4.0000		
Beryllium, total	ug/L	MW88-2	03/23/2020	ND	4.0000		
Beryllium, total	ug/L	MW88-2	09/04/2020	ND	4.0000		
Beryllium, total	ug/L	MW88-2	03/09/2021	ND	4.0000		
Beryllium, total	ug/L	MW88-2	03/28/2022	ND	4.0000		
Beryllium, total	ug/L	MW88-2	09/14/2022	ND	4.0000		
Beryllium, total	ug/L	MW88-2	03/20/2023	ND	4.0000		
Beryllium, total	ug/L	MW88-2	09/12/2023	ND	4.0000		
Beryllium, total	ug/L	MW88-2	03/12/2024	ND	4.0000		
Beryllium, total	ug/L	MW88-2	09/30/2024	ND	4.0000		
Beryllium, total	ug/L	MW88-2	03/24/2025	ND	4.0000		
Cadmium, total	ug/L	MW88-2	09/18/2014	ND	0.8000		
Cadmium, total	ug/L	MW88-2	11/13/2014	ND	0.8000		
Cadmium, total	ug/L	MW88-2	03/17/2015	ND	0.8000		
Cadmium, total	ug/L	MW88-2	06/29/2015	ND	0.8000		
Cadmium, total	ug/L	MW88-2	09/11/2015	ND	0.8000		
Cadmium, total	ug/L	MW88-2	03/16/2016		4.6000		*
Cadmium, total	ug/L	MW88-2	09/08/2016	ND	0.8000		
Cadmium, total	ug/L	MW88-2	03/17/2017		1.1000		
Cadmium, total	ug/L	MW88-2	09/19/2017		2.5000		*
Cadmium, total	ug/L	MW88-2	03/08/2018	ND	0.8000		
Cadmium, total	ug/L	MW88-2	09/24/2018	ND	0.8000		
Cadmium, total	ug/L	MW88-2	03/25/2019	ND	0.8000		
Cadmium, total	ug/L	MW88-2	09/03/2019	ND	0.8000		
Cadmium, total	ug/L	MW88-2	03/23/2020	ND	0.8000		
Cadmium, total	ug/L	MW88-2	09/04/2020	ND	0.8000		
Cadmium, total	ug/L	MW88-2	03/09/2021	ND	0.8000		
Cadmium, total	ug/L	MW88-2	03/28/2022	ND	0.8000		
Cadmium, total	ug/L	MW88-2	09/14/2022	ND	0.8000		
Cadmium, total	ug/L	MW88-2	03/20/2023	ND	0.8000		
Cadmium, total	ug/L	MW88-2	09/12/2023	ND	0.8000		
Cadmium, total	ug/L	MW88-2	03/12/2024	ND	0.8000		
Cadmium, total	ug/L	MW88-2	09/30/2024	ND	0.8000		
Cadmium, total	ug/L	MW88-2	03/24/2025	ND	0.8000		
Chromium, total	ug/L	MW88-2	09/18/2014	ND	8.0000		
Chromium, total	ug/L	MW88-2	11/13/2014	ND	8.0000		
Chromium, total	ug/L	MW88-2	03/17/2015	ND	8.0000		
Chromium, total	ug/L	MW88-2	06/29/2015	ND	8.0000		
Chromium, total	ug/L	MW88-2	09/11/2015	ND	8.0000		
Chromium, total	ug/L	MW88-2	03/16/2016	ND	8.0000		
Chromium, total	ug/L	MW88-2	09/08/2016	ND	8.0000		
Chromium, total	ug/L	MW88-2	03/17/2017	ND	8.0000		
Chromium, total	ug/L	MW88-2	09/19/2017	ND	8.0000		
Chromium, total	ug/L	MW88-2	03/08/2018	ND	8.0000		
Chromium, total	ug/L	MW88-2	09/24/2018	ND	8.0000		
Chromium, total	ug/L	MW88-2	03/25/2019	ND	8.0000		
Chromium, total	ug/L	MW88-2	09/03/2019	ND	8.0000		
Chromium, total	ug/L	MW88-2	03/23/2020	ND	8.0000		
Chromium, total	ug/L	MW88-2	09/04/2020	ND	8.0000		
Chromium, total	ug/L	MW88-2	03/09/2021	ND	8.0000		
Chromium, total	ug/L	MW88-2	03/28/2022	ND	8.0000		
Chromium, total	ug/L	MW88-2	09/14/2022	ND	8.0000		
Chromium, total	ug/L	MW88-2	03/20/2023	ND	8.0000		
Chromium, total	ug/L	MW88-2	09/12/2023	ND	8.0000		
Chromium, total	ug/L	MW88-2	03/12/2024	ND	8.0000		
Chromium, total	ug/L	MW88-2	09/30/2024	ND	8.0000		
Chromium, total	ug/L	MW88-2	03/24/2025	ND	8.0000		
Cobalt, total	ug/L	MW88-2	09/18/2014	ND	0.8000		
Cobalt, total	ug/L	MW88-2	11/13/2014	ND	0.8000		
Cobalt, total	ug/L	MW88-2	03/17/2015	ND	0.8000		
Cobalt, total	ug/L	MW88-2	06/29/2015	ND	0.8000		
Cobalt, total	ug/L	MW88-2	09/11/2015	ND	0.8000		
Cobalt, total	ug/L	MW88-2	03/16/2016	ND	0.8000		
Cobalt, total	ug/L	MW88-2	09/08/2016	ND	0.8000		
Cobalt, total	ug/L	MW88-2	03/17/2017		0.8000		
Cobalt, total	ug/L	MW88-2	09/19/2017	ND	0.8000		
Cobalt, total	ug/L	MW88-2	03/08/2018	ND	0.8000		
Cobalt, total	ug/L	MW88-2	09/24/2018	ND	0.8000		
Cobalt, total	ug/L	MW88-2	03/25/2019		1.0000		
Cobalt, total	ug/L	MW88-2	09/03/2019		1.5000		
Cobalt, total	ug/L	MW88-2	03/23/2020	ND	0.8000		
Cobalt, total	ug/L	MW88-2	09/04/2020	ND	0.4000	0.8000	**
Cobalt, total	ug/L	MW88-2	03/09/2021	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	MW88-2	03/28/2022		0.9000		
Cobalt, total	ug/L	MW88-2	09/14/2022		2.6000		*
Cobalt, total	ug/L	MW88-2	03/20/2023		0.8000		
Cobalt, total	ug/L	MW88-2	09/12/2023		0.4000		
Cobalt, total	ug/L	MW88-2	03/12/2024		0.8000		
Cobalt, total	ug/L	MW88-2	09/30/2024	ND	0.4000	0.8000	**
Cobalt, total	ug/L	MW88-2	03/24/2025		0.7000		
Copper, total	ug/L	MW88-2	09/18/2014	ND	4.0000		
Copper, total	ug/L	MW88-2	11/13/2014	ND	4.0000		
Copper, total	ug/L	MW88-2	03/17/2015	ND	4.0000		
Copper, total	ug/L	MW88-2	06/29/2015	ND	4.0000		
Copper, total	ug/L	MW88-2	09/11/2015	ND	4.0000		
Copper, total	ug/L	MW88-2	03/16/2016	ND	4.0000		
Copper, total	ug/L	MW88-2	09/08/2016	ND	4.0000		
Copper, total	ug/L	MW88-2	03/17/2017	ND	4.0000		
Copper, total	ug/L	MW88-2	09/19/2017		9.0000		
Copper, total	ug/L	MW88-2	03/08/2018	ND	4.0000		
Copper, total	ug/L	MW88-2	09/24/2018	ND	4.0000		
Copper, total	ug/L	MW88-2	03/25/2019	ND	4.0000		
Copper, total	ug/L	MW88-2	09/03/2019	ND	4.0000		
Copper, total	ug/L	MW88-2	03/23/2020	ND	4.0000		
Copper, total	ug/L	MW88-2	09/04/2020	ND	4.0000		
Copper, total	ug/L	MW88-2	03/09/2021		33.6000		*
Copper, total	ug/L	MW88-2	03/28/2022	ND	4.0000		
Copper, total	ug/L	MW88-2	09/14/2022	ND	4.0000		
Copper, total	ug/L	MW88-2	03/20/2023	ND	4.0000		
Copper, total	ug/L	MW88-2	09/12/2023	ND	4.0000		
Copper, total	ug/L	MW88-2	03/12/2024	ND	4.0000		
Copper, total	ug/L	MW88-2	09/30/2024	ND	4.0000		
Copper, total	ug/L	MW88-2	03/24/2025	ND	4.0000		
Lead, total	ug/L	MW88-2	09/18/2014	ND	4.0000		
Lead, total	ug/L	MW88-2	11/13/2014	ND	4.0000		
Lead, total	ug/L	MW88-2	03/17/2015	ND	4.0000		
Lead, total	ug/L	MW88-2	06/29/2015	ND	4.0000		
Lead, total	ug/L	MW88-2	09/11/2015	ND	4.0000		
Lead, total	ug/L	MW88-2	03/16/2016	ND	4.0000		
Lead, total	ug/L	MW88-2	09/08/2016	ND	4.0000		
Lead, total	ug/L	MW88-2	03/17/2017	ND	4.0000		
Lead, total	ug/L	MW88-2	09/19/2017	ND	4.0000		
Lead, total	ug/L	MW88-2	03/08/2018	ND	4.0000		
Lead, total	ug/L	MW88-2	09/24/2018	ND	4.0000		
Lead, total	ug/L	MW88-2	03/25/2019	ND	4.0000		
Lead, total	ug/L	MW88-2	09/03/2019	ND	4.0000		
Lead, total	ug/L	MW88-2	03/23/2020	ND	4.0000		
Lead, total	ug/L	MW88-2	09/04/2020	ND	4.0000		
Lead, total	ug/L	MW88-2	03/09/2021	ND	4.0000		
Lead, total	ug/L	MW88-2	03/28/2022	ND	4.0000		
Lead, total	ug/L	MW88-2	09/14/2022	ND	4.0000		
Lead, total	ug/L	MW88-2	03/20/2023	ND	4.0000		
Lead, total	ug/L	MW88-2	09/12/2023	ND	4.0000		
Lead, total	ug/L	MW88-2	03/12/2024	ND	4.0000		
Lead, total	ug/L	MW88-2	09/30/2024	ND	4.0000		
Lead, total	ug/L	MW88-2	03/24/2025	ND	4.0000		
Nickel, total	ug/L	MW88-2	09/18/2014	ND	4.0000		
Nickel, total	ug/L	MW88-2	11/13/2014	ND	4.0000		
Nickel, total	ug/L	MW88-2	03/17/2015	ND	4.0000		
Nickel, total	ug/L	MW88-2	06/29/2015	ND	4.0000		
Nickel, total	ug/L	MW88-2	09/11/2015	ND	4.0000		
Nickel, total	ug/L	MW88-2	03/16/2016		5.1000		
Nickel, total	ug/L	MW88-2	09/08/2016	ND	4.0000		
Nickel, total	ug/L	MW88-2	03/17/2017	ND	4.0000		
Nickel, total	ug/L	MW88-2	09/19/2017	ND	4.0000		
Nickel, total	ug/L	MW88-2	03/08/2018	ND	4.0000		
Nickel, total	ug/L	MW88-2	09/24/2018	ND	4.0000		
Nickel, total	ug/L	MW88-2	03/25/2019		4.6000		
Nickel, total	ug/L	MW88-2	09/03/2019		8.1000		
Nickel, total	ug/L	MW88-2	03/23/2020	ND	4.0000		
Nickel, total	ug/L	MW88-2	09/04/2020	ND	4.0000		
Nickel, total	ug/L	MW88-2	03/09/2021	ND	4.0000		
Nickel, total	ug/L	MW88-2	03/28/2022	ND	4.0000		
Nickel, total	ug/L	MW88-2	09/14/2022	ND	4.0000		
Nickel, total	ug/L	MW88-2	03/20/2023	ND	4.0000		
Nickel, total	ug/L	MW88-2	09/12/2023	ND	4.0000		
Nickel, total	ug/L	MW88-2	03/12/2024	ND	4.0000		

* - Outlier for that well and constituent.

** - ND value replaced with median RL.

*** - ND value replaced with manual RL.

ND = Not detected, Result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Nickel, total	ug/L	MW88-2	09/30/2024	ND	4.0000		
Nickel, total	ug/L	MW88-2	03/24/2025		4.0000		
Selenium, total	ug/L	MW88-2	09/18/2014	ND	4.0000		
Selenium, total	ug/L	MW88-2	11/13/2014	ND	4.0000		
Selenium, total	ug/L	MW88-2	03/17/2015	ND	4.0000		
Selenium, total	ug/L	MW88-2	06/29/2015	ND	4.0000		
Selenium, total	ug/L	MW88-2	09/11/2015	ND	4.0000		
Selenium, total	ug/L	MW88-2	03/16/2016	ND	4.0000		
Selenium, total	ug/L	MW88-2	09/08/2016	ND	4.0000		
Selenium, total	ug/L	MW88-2	03/17/2017	ND	4.0000		
Selenium, total	ug/L	MW88-2	09/19/2017	ND	4.0000		
Selenium, total	ug/L	MW88-2	03/08/2018	ND	4.0000		
Selenium, total	ug/L	MW88-2	09/24/2018	ND	4.0000		
Selenium, total	ug/L	MW88-2	03/25/2019	ND	4.0000		
Selenium, total	ug/L	MW88-2	09/03/2019	ND	4.0000		
Selenium, total	ug/L	MW88-2	03/23/2020	ND	4.0000		
Selenium, total	ug/L	MW88-2	09/04/2020	ND	4.0000		
Selenium, total	ug/L	MW88-2	03/09/2021	ND	4.0000		
Selenium, total	ug/L	MW88-2	03/28/2022	ND	4.0000		
Selenium, total	ug/L	MW88-2	09/14/2022	ND	4.0000		
Selenium, total	ug/L	MW88-2	03/20/2023	ND	4.0000		
Selenium, total	ug/L	MW88-2	09/12/2023	ND	4.0000		
Selenium, total	ug/L	MW88-2	03/12/2024	ND	4.0000		
Selenium, total	ug/L	MW88-2	09/30/2024	ND	4.0000		
Selenium, total	ug/L	MW88-2	03/24/2025	ND	4.0000		
Silver, total	ug/L	MW88-2	09/18/2014	ND	4.0000		
Silver, total	ug/L	MW88-2	11/13/2014	ND	4.0000		
Silver, total	ug/L	MW88-2	03/17/2015	ND	4.0000		
Silver, total	ug/L	MW88-2	06/29/2015	ND	4.0000		
Silver, total	ug/L	MW88-2	09/11/2015	ND	4.0000		
Silver, total	ug/L	MW88-2	03/16/2016	ND	4.0000		
Silver, total	ug/L	MW88-2	09/08/2016	ND	4.0000		
Silver, total	ug/L	MW88-2	03/17/2017	ND	4.0000		
Silver, total	ug/L	MW88-2	09/19/2017	ND	4.0000		
Silver, total	ug/L	MW88-2	03/08/2018	ND	4.0000		
Silver, total	ug/L	MW88-2	09/24/2018	ND	4.0000		
Silver, total	ug/L	MW88-2	03/25/2019	ND	4.0000		
Silver, total	ug/L	MW88-2	09/03/2019	ND	4.0000		
Silver, total	ug/L	MW88-2	03/23/2020	ND	4.0000		
Silver, total	ug/L	MW88-2	09/04/2020	ND	4.0000		
Silver, total	ug/L	MW88-2	03/09/2021	ND	4.0000		
Silver, total	ug/L	MW88-2	03/28/2022	ND	4.0000		
Silver, total	ug/L	MW88-2	09/14/2022	ND	4.0000		
Silver, total	ug/L	MW88-2	03/20/2023	ND	4.0000		
Silver, total	ug/L	MW88-2	09/12/2023	ND	4.0000		
Silver, total	ug/L	MW88-2	03/12/2024	ND	4.0000		
Silver, total	ug/L	MW88-2	09/30/2024	ND	4.0000		
Silver, total	ug/L	MW88-2	03/24/2025	ND	4.0000		
Thallium, total	ug/L	MW88-2	09/18/2014	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW88-2	11/13/2014	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW88-2	03/17/2015	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW88-2	06/29/2015	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW88-2	09/11/2015	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW88-2	03/16/2016	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW88-2	09/08/2016	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW88-2	03/17/2017	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW88-2	09/19/2017	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW88-2	03/08/2018	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW88-2	09/24/2018	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW88-2	03/25/2019	ND	2.0000		
Thallium, total	ug/L	MW88-2	09/03/2019	ND	2.0000		
Thallium, total	ug/L	MW88-2	03/23/2020	ND	2.0000		
Thallium, total	ug/L	MW88-2	09/04/2020	ND	2.0000		
Thallium, total	ug/L	MW88-2	03/09/2021	ND	2.0000		
Thallium, total	ug/L	MW88-2	03/28/2022	ND	2.0000		
Thallium, total	ug/L	MW88-2	09/14/2022	ND	2.0000		
Thallium, total	ug/L	MW88-2	03/20/2023	ND	2.0000		
Thallium, total	ug/L	MW88-2	09/12/2023	ND	2.0000		
Thallium, total	ug/L	MW88-2	03/12/2024	ND	2.0000		
Thallium, total	ug/L	MW88-2	09/30/2024	ND	2.0000		
Thallium, total	ug/L	MW88-2	03/24/2025	ND	2.0000		
Vanadium, total	ug/L	MW88-2	09/18/2014	ND	20.0000		
Vanadium, total	ug/L	MW88-2	11/13/2014	ND	20.0000		
Vanadium, total	ug/L	MW88-2	03/17/2015	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	MW88-2	06/29/2015	ND	20.0000		
Vanadium, total	ug/L	MW88-2	09/11/2015	ND	20.0000		
Vanadium, total	ug/L	MW88-2	03/16/2016	ND	20.0000		
Vanadium, total	ug/L	MW88-2	09/08/2016	ND	20.0000		
Vanadium, total	ug/L	MW88-2	03/17/2017	ND	20.0000		
Vanadium, total	ug/L	MW88-2	09/19/2017	ND	20.0000		
Vanadium, total	ug/L	MW88-2	03/08/2018	ND	20.0000		
Vanadium, total	ug/L	MW88-2	09/24/2018	ND	20.0000		
Vanadium, total	ug/L	MW88-2	03/25/2019	ND	20.0000		
Vanadium, total	ug/L	MW88-2	09/03/2019	ND	20.0000		
Vanadium, total	ug/L	MW88-2	03/23/2020	ND	20.0000		
Vanadium, total	ug/L	MW88-2	09/04/2020	ND	20.0000		
Vanadium, total	ug/L	MW88-2	03/09/2021	ND	20.0000		
Vanadium, total	ug/L	MW88-2	03/28/2022	ND	20.0000		
Vanadium, total	ug/L	MW88-2	09/14/2022	ND	20.0000		
Vanadium, total	ug/L	MW88-2	03/20/2023	ND	20.0000		
Vanadium, total	ug/L	MW88-2	09/12/2023	ND	20.0000		
Vanadium, total	ug/L	MW88-2	03/12/2024	ND	20.0000		
Vanadium, total	ug/L	MW88-2	09/30/2024	ND	20.0000		
Vanadium, total	ug/L	MW88-2	03/24/2025	ND	20.0000		
Zinc, total	ug/L	MW88-2	09/18/2014	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW88-2	11/13/2014	ND	20.0000		
Zinc, total	ug/L	MW88-2	03/17/2015	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW88-2	06/29/2015	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW88-2	09/11/2015	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW88-2	03/16/2016	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW88-2	09/08/2016	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW88-2	03/17/2017	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW88-2	09/19/2017		13.1000		
Zinc, total	ug/L	MW88-2	03/08/2018	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW88-2	09/24/2018	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW88-2	03/25/2019		39.1000		
Zinc, total	ug/L	MW88-2	09/03/2019		23.6000		
Zinc, total	ug/L	MW88-2	03/23/2020	ND	20.0000		
Zinc, total	ug/L	MW88-2	09/04/2020	ND	20.0000		
Zinc, total	ug/L	MW88-2	03/09/2021	ND	20.0000		
Zinc, total	ug/L	MW88-2	03/28/2022	ND	20.0000		
Zinc, total	ug/L	MW88-2	09/14/2022	ND	20.0000		
Zinc, total	ug/L	MW88-2	03/20/2023	ND	20.0000		
Zinc, total	ug/L	MW88-2	09/12/2023	ND	20.0000		
Zinc, total	ug/L	MW88-2	03/12/2024	ND	20.0000		
Zinc, total	ug/L	MW88-2	09/30/2024	ND	20.0000		
Zinc, total	ug/L	MW88-2	03/24/2025	ND	20.0000		
Antimony, total	ug/L	MW91-8	09/19/2014	ND	2.0000		
Antimony, total	ug/L	MW91-8	11/13/2014	ND	2.0000		
Antimony, total	ug/L	MW91-8	03/17/2015	ND	2.0000		
Antimony, total	ug/L	MW91-8	06/29/2015	ND	2.0000		
Antimony, total	ug/L	MW91-8	09/11/2015	ND	2.0000		
Antimony, total	ug/L	MW91-8	03/16/2016	ND	2.0000		
Antimony, total	ug/L	MW91-8	09/08/2016	ND	2.0000		
Antimony, total	ug/L	MW91-8	03/17/2017	ND	2.0000		
Antimony, total	ug/L	MW91-8	09/19/2017	ND	2.0000		
Antimony, total	ug/L	MW91-8	03/08/2018	ND	2.0000		
Antimony, total	ug/L	MW91-8	09/24/2018	ND	2.0000		
Antimony, total	ug/L	MW91-8	03/25/2019	ND	2.0000		
Antimony, total	ug/L	MW91-8	09/03/2019	ND	2.0000		
Antimony, total	ug/L	MW91-8	03/23/2020	ND	2.0000		
Antimony, total	ug/L	MW91-8	09/04/2020	ND	2.0000		
Antimony, total	ug/L	MW91-8	03/09/2021	ND	2.0000		
Antimony, total	ug/L	MW91-8	09/07/2021	ND	2.0000		
Antimony, total	ug/L	MW91-8	03/28/2022	ND	2.0000		
Antimony, total	ug/L	MW91-8	09/14/2022	ND	2.0000		
Antimony, total	ug/L	MW91-8	03/20/2023	ND	2.0000		
Antimony, total	ug/L	MW91-8	09/13/2023	ND	2.0000		
Antimony, total	ug/L	MW91-8	03/12/2024	ND	2.0000		
Antimony, total	ug/L	MW91-8	09/30/2024	ND	2.0000		
Antimony, total	ug/L	MW91-8	03/24/2025	ND	1.0000	2.0000	**
Arsenic, total	ug/L	MW91-8	09/19/2014	ND	4.0000		
Arsenic, total	ug/L	MW91-8	11/13/2014	ND	4.0000		
Arsenic, total	ug/L	MW91-8	03/17/2015	ND	4.0000		
Arsenic, total	ug/L	MW91-8	06/29/2015	ND	4.0000		
Arsenic, total	ug/L	MW91-8	09/11/2015	ND	4.0000		
Arsenic, total	ug/L	MW91-8	03/16/2016	ND	4.0000		
Arsenic, total	ug/L	MW91-8	09/08/2016	ND	4.0000		

* - Outlier for that well and constituent.

** - ND value replaced with median RL.

*** - ND value replaced with manual RL.

ND = Not detected, Result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Arsenic, total	ug/L	MW91-8	03/17/2017	ND	4.0000		
Arsenic, total	ug/L	MW91-8	09/19/2017	ND	4.0000		
Arsenic, total	ug/L	MW91-8	03/08/2018	ND	4.0000		
Arsenic, total	ug/L	MW91-8	09/24/2018	ND	4.0000		
Arsenic, total	ug/L	MW91-8	03/25/2019	ND	4.0000		
Arsenic, total	ug/L	MW91-8	09/03/2019	ND	4.0000		
Arsenic, total	ug/L	MW91-8	03/23/2020	ND	4.0000		
Arsenic, total	ug/L	MW91-8	09/04/2020	ND	4.0000		
Arsenic, total	ug/L	MW91-8	03/09/2021	ND	4.0000		
Arsenic, total	ug/L	MW91-8	09/07/2021	ND	4.0000		
Arsenic, total	ug/L	MW91-8	03/28/2022	ND	4.0000		
Arsenic, total	ug/L	MW91-8	09/14/2022	ND	4.0000		
Arsenic, total	ug/L	MW91-8	03/20/2023	ND	4.0000		
Arsenic, total	ug/L	MW91-8	09/13/2023	ND	4.0000		
Arsenic, total	ug/L	MW91-8	03/12/2024	ND	4.0000		
Arsenic, total	ug/L	MW91-8	09/30/2024	ND	4.0000		
Arsenic, total	ug/L	MW91-8	03/24/2025	ND	2.0000	4.0000	**
Barium, total	ug/L	MW91-8	09/19/2014		84.7000		
Barium, total	ug/L	MW91-8	11/13/2014		106.0000		
Barium, total	ug/L	MW91-8	03/17/2015		102.0000		
Barium, total	ug/L	MW91-8	06/29/2015		97.8000		
Barium, total	ug/L	MW91-8	09/11/2015		104.0000		
Barium, total	ug/L	MW91-8	03/16/2016		103.0000		
Barium, total	ug/L	MW91-8	09/08/2016		147.0000		
Barium, total	ug/L	MW91-8	03/17/2017		93.5000		
Barium, total	ug/L	MW91-8	09/19/2017		108.0000		
Barium, total	ug/L	MW91-8	03/08/2018		96.0000		
Barium, total	ug/L	MW91-8	09/24/2018		96.9000		
Barium, total	ug/L	MW91-8	03/25/2019		88.4000		
Barium, total	ug/L	MW91-8	09/03/2019		103.0000		
Barium, total	ug/L	MW91-8	03/23/2020		92.9000		
Barium, total	ug/L	MW91-8	09/04/2020		95.3000		
Barium, total	ug/L	MW91-8	03/09/2021		90.7000		
Barium, total	ug/L	MW91-8	09/07/2021		118.0000		
Barium, total	ug/L	MW91-8	03/28/2022		101.0000		
Barium, total	ug/L	MW91-8	09/14/2022		125.0000		
Barium, total	ug/L	MW91-8	03/20/2023		109.0000		
Barium, total	ug/L	MW91-8	09/13/2023		123.0000		
Barium, total	ug/L	MW91-8	03/12/2024		107.0000		
Barium, total	ug/L	MW91-8	09/30/2024		109.0000		
Barium, total	ug/L	MW91-8	03/24/2025		96.4000		
Beryllium, total	ug/L	MW91-8	09/19/2014	ND	4.0000		
Beryllium, total	ug/L	MW91-8	11/13/2014	ND	4.0000		
Beryllium, total	ug/L	MW91-8	03/17/2015	ND	4.0000		
Beryllium, total	ug/L	MW91-8	06/29/2015	ND	4.0000		
Beryllium, total	ug/L	MW91-8	09/11/2015	ND	4.0000		
Beryllium, total	ug/L	MW91-8	03/16/2016	ND	4.0000		
Beryllium, total	ug/L	MW91-8	09/08/2016	ND	4.0000		
Beryllium, total	ug/L	MW91-8	03/17/2017	ND	4.0000		
Beryllium, total	ug/L	MW91-8	09/19/2017	ND	4.0000		
Beryllium, total	ug/L	MW91-8	03/08/2018	ND	4.0000		
Beryllium, total	ug/L	MW91-8	09/24/2018	ND	4.0000		
Beryllium, total	ug/L	MW91-8	03/25/2019	ND	4.0000		
Beryllium, total	ug/L	MW91-8	09/03/2019	ND	4.0000		
Beryllium, total	ug/L	MW91-8	03/23/2020	ND	4.0000		
Beryllium, total	ug/L	MW91-8	09/04/2020	ND	4.0000		
Beryllium, total	ug/L	MW91-8	03/09/2021	ND	4.0000		
Beryllium, total	ug/L	MW91-8	09/07/2021	ND	4.0000		
Beryllium, total	ug/L	MW91-8	03/28/2022	ND	4.0000		
Beryllium, total	ug/L	MW91-8	09/14/2022	ND	4.0000		
Beryllium, total	ug/L	MW91-8	03/20/2023	ND	4.0000		
Beryllium, total	ug/L	MW91-8	09/13/2023	ND	4.0000		
Beryllium, total	ug/L	MW91-8	03/12/2024	ND	4.0000		
Beryllium, total	ug/L	MW91-8	09/30/2024	ND	4.0000		
Beryllium, total	ug/L	MW91-8	03/24/2025	ND	0.5000		*
Cadmium, total	ug/L	MW91-8	09/19/2014	ND	0.8000		
Cadmium, total	ug/L	MW91-8	11/13/2014	ND	0.8000		
Cadmium, total	ug/L	MW91-8	03/17/2015		2.3000		
Cadmium, total	ug/L	MW91-8	06/29/2015	ND	0.8000		
Cadmium, total	ug/L	MW91-8	09/11/2015		2.4000		
Cadmium, total	ug/L	MW91-8	03/16/2016		1.4000		
Cadmium, total	ug/L	MW91-8	09/08/2016	ND	0.8000		
Cadmium, total	ug/L	MW91-8	03/17/2017		1.3000		
Cadmium, total	ug/L	MW91-8	09/19/2017		2.2000		

* - Outlier for that well and constituent.

** - ND value replaced with median RL.

*** - ND value replaced with manual RL.

ND = Not detected, Result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Cadmium, total	ug/L	MW91-8	03/08/2018	ND	0.8000		
Cadmium, total	ug/L	MW91-8	09/24/2018	ND	0.8000		
Cadmium, total	ug/L	MW91-8	03/25/2019	ND	0.8000		
Cadmium, total	ug/L	MW91-8	09/03/2019	ND	0.8000		
Cadmium, total	ug/L	MW91-8	03/23/2020	ND	0.8000		
Cadmium, total	ug/L	MW91-8	09/04/2020	ND	0.8000		
Cadmium, total	ug/L	MW91-8	03/09/2021	ND	0.8000		
Cadmium, total	ug/L	MW91-8	09/07/2021	ND	0.8000		
Cadmium, total	ug/L	MW91-8	03/28/2022	ND	0.8000		
Cadmium, total	ug/L	MW91-8	09/14/2022	ND	0.8000		
Cadmium, total	ug/L	MW91-8	03/20/2023	ND	0.8000		
Cadmium, total	ug/L	MW91-8	09/13/2023	ND	0.8000		
Cadmium, total	ug/L	MW91-8	03/12/2024	ND	0.8000		
Cadmium, total	ug/L	MW91-8	09/30/2024	ND	0.8000		
Cadmium, total	ug/L	MW91-8	03/24/2025		0.5000		
Chromium, total	ug/L	MW91-8	09/19/2014	ND	8.0000		
Chromium, total	ug/L	MW91-8	11/13/2014	ND	8.0000		
Chromium, total	ug/L	MW91-8	03/17/2015	ND	8.0000		
Chromium, total	ug/L	MW91-8	06/29/2015	ND	8.0000		
Chromium, total	ug/L	MW91-8	09/11/2015	ND	8.0000		
Chromium, total	ug/L	MW91-8	03/16/2016	ND	8.0000		
Chromium, total	ug/L	MW91-8	09/08/2016	ND	8.0000		
Chromium, total	ug/L	MW91-8	03/17/2017	ND	8.0000		
Chromium, total	ug/L	MW91-8	09/19/2017	ND	8.0000		
Chromium, total	ug/L	MW91-8	03/08/2018	ND	8.0000		
Chromium, total	ug/L	MW91-8	09/24/2018	ND	8.0000		
Chromium, total	ug/L	MW91-8	03/25/2019	ND	8.0000		
Chromium, total	ug/L	MW91-8	09/03/2019	ND	8.0000		
Chromium, total	ug/L	MW91-8	03/23/2020	ND	8.0000		
Chromium, total	ug/L	MW91-8	09/04/2020	ND	8.0000		
Chromium, total	ug/L	MW91-8	03/09/2021	ND	8.0000		
Chromium, total	ug/L	MW91-8	09/07/2021	ND	8.0000		
Chromium, total	ug/L	MW91-8	03/28/2022	ND	8.0000		
Chromium, total	ug/L	MW91-8	09/14/2022	ND	8.0000		
Chromium, total	ug/L	MW91-8	03/20/2023	ND	8.0000		
Chromium, total	ug/L	MW91-8	09/13/2023	ND	8.0000		
Chromium, total	ug/L	MW91-8	03/12/2024	ND	8.0000		
Chromium, total	ug/L	MW91-8	09/30/2024	ND	8.0000		
Chromium, total	ug/L	MW91-8	03/24/2025		1.6000		*
Cobalt, total	ug/L	MW91-8	09/19/2014	ND	0.8000		
Cobalt, total	ug/L	MW91-8	11/13/2014	ND	0.8000		
Cobalt, total	ug/L	MW91-8	03/17/2015	ND	0.8000		
Cobalt, total	ug/L	MW91-8	06/29/2015	ND	0.8000		
Cobalt, total	ug/L	MW91-8	09/11/2015	ND	0.8000		
Cobalt, total	ug/L	MW91-8	03/16/2016	ND	0.8000		
Cobalt, total	ug/L	MW91-8	09/08/2016	ND	0.8000		
Cobalt, total	ug/L	MW91-8	03/17/2017	ND	0.8000		
Cobalt, total	ug/L	MW91-8	09/19/2017	ND	0.8000		
Cobalt, total	ug/L	MW91-8	03/08/2018	ND	0.8000		
Cobalt, total	ug/L	MW91-8	09/24/2018	ND	0.8000		
Cobalt, total	ug/L	MW91-8	03/25/2019	ND	0.8000		
Cobalt, total	ug/L	MW91-8	09/03/2019	ND	0.8000		
Cobalt, total	ug/L	MW91-8	03/23/2020	ND	0.8000		
Cobalt, total	ug/L	MW91-8	09/04/2020	ND	0.4000	0.8000	**
Cobalt, total	ug/L	MW91-8	03/09/2021	ND	0.4000	0.8000	**
Cobalt, total	ug/L	MW91-8	09/07/2021	ND	0.4000	0.8000	**
Cobalt, total	ug/L	MW91-8	03/28/2022	ND	0.4000	0.8000	**
Cobalt, total	ug/L	MW91-8	09/14/2022		2.7000		*
Cobalt, total	ug/L	MW91-8	03/20/2023	ND	0.4000	0.8000	**
Cobalt, total	ug/L	MW91-8	09/13/2023	ND	0.4000	0.8000	**
Cobalt, total	ug/L	MW91-8	03/12/2024	ND	0.4000	0.8000	**
Cobalt, total	ug/L	MW91-8	09/30/2024	ND	0.4000	0.8000	**
Cobalt, total	ug/L	MW91-8	03/24/2025	ND	0.5000	0.8000	**
Copper, total	ug/L	MW91-8	09/19/2014	ND	4.0000		
Copper, total	ug/L	MW91-8	11/13/2014	ND	4.0000		
Copper, total	ug/L	MW91-8	03/17/2015	ND	4.0000		
Copper, total	ug/L	MW91-8	06/29/2015	ND	4.0000		
Copper, total	ug/L	MW91-8	09/11/2015	ND	4.0000		
Copper, total	ug/L	MW91-8	03/16/2016	ND	4.0000		
Copper, total	ug/L	MW91-8	09/08/2016	ND	4.0000		
Copper, total	ug/L	MW91-8	03/17/2017	ND	4.0000		
Copper, total	ug/L	MW91-8	09/19/2017	ND	4.0000		
Copper, total	ug/L	MW91-8	03/08/2018	ND	4.0000		
Copper, total	ug/L	MW91-8	09/24/2018	ND	4.0000		

* - Outlier for that well and constituent.

** - ND value replaced with median RL.

*** - ND value replaced with manual RL.

ND = Not detected, Result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Copper, total	ug/L	MW91-8	03/25/2019	ND	4.0000		
Copper, total	ug/L	MW91-8	09/03/2019	ND	4.0000		
Copper, total	ug/L	MW91-8	03/23/2020	ND	4.0000		
Copper, total	ug/L	MW91-8	09/04/2020	ND	4.0000		
Copper, total	ug/L	MW91-8	03/09/2021	ND	4.0000		
Copper, total	ug/L	MW91-8	09/07/2021	ND	4.0000		
Copper, total	ug/L	MW91-8	03/28/2022	ND	4.0000		
Copper, total	ug/L	MW91-8	09/14/2022	ND	4.0000		
Copper, total	ug/L	MW91-8	03/20/2023	ND	4.0000		
Copper, total	ug/L	MW91-8	09/13/2023	ND	4.0000		
Copper, total	ug/L	MW91-8	03/12/2024	ND	4.0000		
Copper, total	ug/L	MW91-8	09/30/2024	ND	4.0000		
Copper, total	ug/L	MW91-8	03/24/2025	ND	4.0000		
Lead, total	ug/L	MW91-8	09/19/2014	ND	4.0000		
Lead, total	ug/L	MW91-8	11/13/2014	ND	4.0000		
Lead, total	ug/L	MW91-8	03/17/2015	ND	4.0000		
Lead, total	ug/L	MW91-8	06/29/2015	ND	4.0000		
Lead, total	ug/L	MW91-8	09/11/2015	ND	4.0000		
Lead, total	ug/L	MW91-8	03/16/2016	ND	4.0000		
Lead, total	ug/L	MW91-8	09/08/2016	ND	4.0000		
Lead, total	ug/L	MW91-8	03/17/2017	ND	4.0000		
Lead, total	ug/L	MW91-8	09/19/2017	ND	4.0000		
Lead, total	ug/L	MW91-8	03/08/2018	ND	4.0000		
Lead, total	ug/L	MW91-8	09/24/2018	ND	4.0000		
Lead, total	ug/L	MW91-8	03/25/2019	ND	4.0000		
Lead, total	ug/L	MW91-8	09/03/2019	ND	4.0000		
Lead, total	ug/L	MW91-8	03/23/2020	ND	4.0000		
Lead, total	ug/L	MW91-8	09/04/2020	ND	4.0000		
Lead, total	ug/L	MW91-8	03/09/2021	ND	4.0000		
Lead, total	ug/L	MW91-8	09/07/2021	ND	4.0000		
Lead, total	ug/L	MW91-8	03/28/2022	ND	4.0000		
Lead, total	ug/L	MW91-8	09/14/2022	ND	4.0000		
Lead, total	ug/L	MW91-8	03/20/2023	ND	4.0000		
Lead, total	ug/L	MW91-8	09/13/2023	ND	4.0000		
Lead, total	ug/L	MW91-8	03/12/2024	ND	4.0000		
Lead, total	ug/L	MW91-8	09/30/2024	ND	4.0000		
Lead, total	ug/L	MW91-8	03/24/2025	ND	1.0000		*
Nickel, total	ug/L	MW91-8	09/19/2014	ND	4.0000		
Nickel, total	ug/L	MW91-8	11/13/2014	ND	4.0000		
Nickel, total	ug/L	MW91-8	03/17/2015	ND	4.0000		
Nickel, total	ug/L	MW91-8	06/29/2015	ND	4.0000		
Nickel, total	ug/L	MW91-8	09/11/2015	ND	4.0000		
Nickel, total	ug/L	MW91-8	03/16/2016	ND	4.0000		
Nickel, total	ug/L	MW91-8	09/08/2016	ND	4.0000		
Nickel, total	ug/L	MW91-8	03/17/2017	ND	4.0000		
Nickel, total	ug/L	MW91-8	09/19/2017	ND	4.0000		
Nickel, total	ug/L	MW91-8	03/08/2018	ND	4.0000		
Nickel, total	ug/L	MW91-8	09/24/2018	ND	4.0000		
Nickel, total	ug/L	MW91-8	03/25/2019	ND	4.0000		
Nickel, total	ug/L	MW91-8	09/03/2019	ND	4.0000		
Nickel, total	ug/L	MW91-8	03/23/2020	ND	4.0000		
Nickel, total	ug/L	MW91-8	09/04/2020	ND	4.0000		
Nickel, total	ug/L	MW91-8	03/09/2021	ND	4.0000		
Nickel, total	ug/L	MW91-8	09/07/2021	ND	4.0000		
Nickel, total	ug/L	MW91-8	03/28/2022	ND	4.0000		
Nickel, total	ug/L	MW91-8	09/14/2022	ND	4.0000		
Nickel, total	ug/L	MW91-8	03/20/2023	ND	4.0000		
Nickel, total	ug/L	MW91-8	09/13/2023	ND	4.0000		
Nickel, total	ug/L	MW91-8	03/12/2024	ND	4.0000		
Nickel, total	ug/L	MW91-8	09/30/2024	ND	4.0000		
Nickel, total	ug/L	MW91-8	03/24/2025	ND	4.0000		
Selenium, total	ug/L	MW91-8	09/19/2014		5.1000		
Selenium, total	ug/L	MW91-8	11/13/2014	ND	4.0000		
Selenium, total	ug/L	MW91-8	03/17/2015	ND	4.0000		
Selenium, total	ug/L	MW91-8	06/29/2015	ND	4.0000		
Selenium, total	ug/L	MW91-8	09/11/2015	ND	4.0000		
Selenium, total	ug/L	MW91-8	03/16/2016	ND	4.0000		
Selenium, total	ug/L	MW91-8	09/08/2016	ND	4.0000		
Selenium, total	ug/L	MW91-8	03/17/2017	ND	4.0000		
Selenium, total	ug/L	MW91-8	09/19/2017	ND	4.0000		
Selenium, total	ug/L	MW91-8	03/08/2018	ND	4.0000		
Selenium, total	ug/L	MW91-8	09/24/2018	ND	4.0000		
Selenium, total	ug/L	MW91-8	03/25/2019	ND	4.0000		
Selenium, total	ug/L	MW91-8	09/03/2019	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	
Selenium, total	ug/L	MW91-8	03/23/2020	ND	4.0000		
Selenium, total	ug/L	MW91-8	09/04/2020	ND	4.0000		
Selenium, total	ug/L	MW91-8	03/09/2021	ND	4.0000		
Selenium, total	ug/L	MW91-8	09/07/2021		4.0000		
Selenium, total	ug/L	MW91-8	03/28/2022	ND	4.0000		
Selenium, total	ug/L	MW91-8	09/14/2022	ND	4.0000		
Selenium, total	ug/L	MW91-8	03/20/2023	ND	4.0000		
Selenium, total	ug/L	MW91-8	09/13/2023	ND	4.0000		
Selenium, total	ug/L	MW91-8	03/12/2024	ND	4.0000		
Selenium, total	ug/L	MW91-8	09/30/2024	ND	4.0000		
Selenium, total	ug/L	MW91-8	03/24/2025		2.1000		
Silver, total	ug/L	MW91-8	09/19/2014	ND	4.0000		
Silver, total	ug/L	MW91-8	11/13/2014	ND	4.0000		
Silver, total	ug/L	MW91-8	03/17/2015	ND	4.0000		
Silver, total	ug/L	MW91-8	06/29/2015	ND	4.0000		
Silver, total	ug/L	MW91-8	09/11/2015	ND	4.0000		
Silver, total	ug/L	MW91-8	03/16/2016	ND	4.0000		
Silver, total	ug/L	MW91-8	09/08/2016	ND	4.0000		
Silver, total	ug/L	MW91-8	03/17/2017	ND	4.0000		
Silver, total	ug/L	MW91-8	09/19/2017	ND	4.0000		
Silver, total	ug/L	MW91-8	03/08/2018	ND	4.0000		
Silver, total	ug/L	MW91-8	09/24/2018	ND	4.0000		
Silver, total	ug/L	MW91-8	03/25/2019	ND	4.0000		
Silver, total	ug/L	MW91-8	09/03/2019	ND	4.0000		
Silver, total	ug/L	MW91-8	03/23/2020	ND	4.0000		
Silver, total	ug/L	MW91-8	09/04/2020	ND	4.0000		
Silver, total	ug/L	MW91-8	03/09/2021	ND	4.0000		
Silver, total	ug/L	MW91-8	09/07/2021	ND	4.0000		
Silver, total	ug/L	MW91-8	03/28/2022	ND	4.0000		
Silver, total	ug/L	MW91-8	09/14/2022	ND	4.0000		
Silver, total	ug/L	MW91-8	03/20/2023	ND	4.0000		
Silver, total	ug/L	MW91-8	09/13/2023	ND	4.0000		
Silver, total	ug/L	MW91-8	03/12/2024	ND	4.0000		
Silver, total	ug/L	MW91-8	09/30/2024	ND	4.0000		
Silver, total	ug/L	MW91-8	03/24/2025	ND	5.0000	4.0000	**
Thallium, total	ug/L	MW91-8	09/19/2014	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW91-8	11/13/2014	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW91-8	03/17/2015	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW91-8	06/29/2015	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW91-8	09/11/2015	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW91-8	03/16/2016	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW91-8	09/08/2016	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW91-8	03/17/2017	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW91-8	09/19/2017	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW91-8	03/08/2018	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW91-8	09/24/2018	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW91-8	03/25/2019	ND	2.0000		
Thallium, total	ug/L	MW91-8	09/03/2019	ND	2.0000		
Thallium, total	ug/L	MW91-8	03/23/2020	ND	2.0000		
Thallium, total	ug/L	MW91-8	09/04/2020	ND	2.0000		
Thallium, total	ug/L	MW91-8	03/09/2021	ND	2.0000		
Thallium, total	ug/L	MW91-8	09/07/2021	ND	2.0000		
Thallium, total	ug/L	MW91-8	03/28/2022	ND	2.0000		
Thallium, total	ug/L	MW91-8	09/14/2022	ND	2.0000		
Thallium, total	ug/L	MW91-8	03/20/2023	ND	2.0000		
Thallium, total	ug/L	MW91-8	09/13/2023	ND	2.0000		
Thallium, total	ug/L	MW91-8	03/12/2024	ND	2.0000		
Thallium, total	ug/L	MW91-8	09/30/2024	ND	2.0000		
Thallium, total	ug/L	MW91-8	03/24/2025	ND	0.5000		*
Vanadium, total	ug/L	MW91-8	09/19/2014	ND	20.0000		
Vanadium, total	ug/L	MW91-8	11/13/2014	ND	20.0000		
Vanadium, total	ug/L	MW91-8	03/17/2015	ND	20.0000		
Vanadium, total	ug/L	MW91-8	06/29/2015	ND	20.0000		
Vanadium, total	ug/L	MW91-8	09/11/2015	ND	20.0000		
Vanadium, total	ug/L	MW91-8	03/16/2016	ND	20.0000		
Vanadium, total	ug/L	MW91-8	09/08/2016	ND	20.0000		
Vanadium, total	ug/L	MW91-8	03/17/2017	ND	20.0000		
Vanadium, total	ug/L	MW91-8	09/19/2017	ND	20.0000		
Vanadium, total	ug/L	MW91-8	03/08/2018	ND	20.0000		
Vanadium, total	ug/L	MW91-8	09/24/2018	ND	20.0000		
Vanadium, total	ug/L	MW91-8	03/25/2019	ND	20.0000		
Vanadium, total	ug/L	MW91-8	09/03/2019	ND	20.0000		
Vanadium, total	ug/L	MW91-8	03/23/2020	ND	20.0000		
Vanadium, total	ug/L	MW91-8	09/04/2020	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	MW91-8	03/09/2021	ND	20.0000		
Vanadium, total	ug/L	MW91-8	09/07/2021	ND	20.0000		
Vanadium, total	ug/L	MW91-8	03/28/2022	ND	20.0000		
Vanadium, total	ug/L	MW91-8	09/14/2022	ND	20.0000		
Vanadium, total	ug/L	MW91-8	03/20/2023	ND	20.0000		
Vanadium, total	ug/L	MW91-8	09/13/2023	ND	20.0000		
Vanadium, total	ug/L	MW91-8	03/12/2024	ND	20.0000		
Vanadium, total	ug/L	MW91-8	09/30/2024	ND	20.0000		
Vanadium, total	ug/L	MW91-8	03/24/2025	ND	2.0000		*
Zinc, total	ug/L	MW91-8	09/19/2014	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW91-8	11/13/2014	ND	20.0000		
Zinc, total	ug/L	MW91-8	03/17/2015	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW91-8	06/29/2015	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW91-8	09/11/2015	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW91-8	03/16/2016	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW91-8	09/08/2016	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW91-8	03/17/2017		8.7000		
Zinc, total	ug/L	MW91-8	09/19/2017	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW91-8	03/08/2018	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW91-8	09/24/2018	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW91-8	03/25/2019	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW91-8	09/03/2019	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW91-8	03/23/2020	ND	20.0000		
Zinc, total	ug/L	MW91-8	09/04/2020	ND	20.0000		
Zinc, total	ug/L	MW91-8	03/09/2021	ND	20.0000		
Zinc, total	ug/L	MW91-8	09/07/2021	ND	20.0000		
Zinc, total	ug/L	MW91-8	03/28/2022	ND	20.0000		
Zinc, total	ug/L	MW91-8	09/14/2022	ND	20.0000		
Zinc, total	ug/L	MW91-8	03/20/2023	ND	20.0000		
Zinc, total	ug/L	MW91-8	09/13/2023	ND	20.0000		
Zinc, total	ug/L	MW91-8	03/12/2024	ND	20.0000		
Zinc, total	ug/L	MW91-8	09/30/2024	ND	20.0000		
Zinc, total	ug/L	MW91-8	03/24/2025	ND	5.0000	20.0000	**
Antimony, total	ug/L	MW98-28	09/18/2014	ND	2.0000		
Antimony, total	ug/L	MW98-28	11/13/2014		2.5000		
Antimony, total	ug/L	MW98-28	03/17/2015	ND	2.0000		
Antimony, total	ug/L	MW98-28	06/29/2015	ND	2.0000		
Antimony, total	ug/L	MW98-28	09/11/2015	ND	2.0000		
Antimony, total	ug/L	MW98-28	03/16/2016	ND	2.0000		
Antimony, total	ug/L	MW98-28	09/08/2016	ND	2.0000		
Antimony, total	ug/L	MW98-28	03/17/2017	ND	2.0000		
Antimony, total	ug/L	MW98-28	09/19/2017		4.5000		
Antimony, total	ug/L	MW98-28	03/08/2018	ND	2.0000		
Antimony, total	ug/L	MW98-28	09/24/2018		2.1000		
Antimony, total	ug/L	MW98-28	03/25/2019	ND	2.0000		
Antimony, total	ug/L	MW98-28	09/03/2019	ND	2.0000		
Antimony, total	ug/L	MW98-28	03/23/2020	ND	2.0000		
Antimony, total	ug/L	MW98-28	09/04/2020	ND	2.0000		
Antimony, total	ug/L	MW98-28	03/09/2021	ND	2.0000		
Antimony, total	ug/L	MW98-28	09/07/2021	ND	2.0000		
Antimony, total	ug/L	MW98-28	03/28/2022		2.3000		
Antimony, total	ug/L	MW98-28	09/14/2022	ND	2.0000		
Antimony, total	ug/L	MW98-28	03/20/2023	ND	2.0000		
Antimony, total	ug/L	MW98-28	09/12/2023	ND	2.0000		
Antimony, total	ug/L	MW98-28	03/12/2024	ND	2.0000		
Antimony, total	ug/L	MW98-28	09/30/2024	ND	2.0000		
Antimony, total	ug/L	MW98-28	03/24/2025	ND	2.0000		
Arsenic, total	ug/L	MW98-28	09/18/2014		18.9000		*
Arsenic, total	ug/L	MW98-28	11/13/2014	ND	4.0000		
Arsenic, total	ug/L	MW98-28	03/17/2015	ND	4.0000		
Arsenic, total	ug/L	MW98-28	06/29/2015		9.5000		
Arsenic, total	ug/L	MW98-28	09/11/2015	ND	4.0000		
Arsenic, total	ug/L	MW98-28	03/16/2016	ND	4.0000		
Arsenic, total	ug/L	MW98-28	09/08/2016	ND	4.0000		
Arsenic, total	ug/L	MW98-28	03/17/2017	ND	4.0000		
Arsenic, total	ug/L	MW98-28	09/19/2017	ND	4.0000		
Arsenic, total	ug/L	MW98-28	03/08/2018	ND	4.0000		
Arsenic, total	ug/L	MW98-28	09/24/2018	ND	4.0000		
Arsenic, total	ug/L	MW98-28	03/25/2019	ND	4.0000		
Arsenic, total	ug/L	MW98-28	09/03/2019	ND	4.0000		
Arsenic, total	ug/L	MW98-28	03/23/2020	ND	4.0000		
Arsenic, total	ug/L	MW98-28	09/04/2020	ND	4.0000		
Arsenic, total	ug/L	MW98-28	03/09/2021		8.2000		
Arsenic, total	ug/L	MW98-28	09/07/2021	ND	4.0000		

* - Outlier for that well and constituent.

** - ND value replaced with median RL.

*** - ND value replaced with manual RL.

ND = Not detected, Result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Arsenic, total	ug/L	MW98-28	03/28/2022	ND	4.0000		
Arsenic, total	ug/L	MW98-28	09/14/2022	ND	4.0000		
Arsenic, total	ug/L	MW98-28	03/20/2023	ND	4.0000		
Arsenic, total	ug/L	MW98-28	09/12/2023	ND	4.0000		
Arsenic, total	ug/L	MW98-28	03/12/2024	ND	4.0000		
Arsenic, total	ug/L	MW98-28	09/30/2024	ND	4.0000		
Arsenic, total	ug/L	MW98-28	03/24/2025	ND	4.0000		
Barium, total	ug/L	MW98-28	09/18/2014		536.0000		
Barium, total	ug/L	MW98-28	11/13/2014		105.0000		
Barium, total	ug/L	MW98-28	03/17/2015		98.0000		
Barium, total	ug/L	MW98-28	06/29/2015		305.0000		
Barium, total	ug/L	MW98-28	09/11/2015		107.0000		
Barium, total	ug/L	MW98-28	03/16/2016		109.0000		
Barium, total	ug/L	MW98-28	09/08/2016		144.0000		
Barium, total	ug/L	MW98-28	03/17/2017		125.0000		
Barium, total	ug/L	MW98-28	09/19/2017		181.0000		
Barium, total	ug/L	MW98-28	03/08/2018		172.0000		
Barium, total	ug/L	MW98-28	09/24/2018		169.0000		
Barium, total	ug/L	MW98-28	03/25/2019		113.0000		
Barium, total	ug/L	MW98-28	09/03/2019		143.0000		
Barium, total	ug/L	MW98-28	03/23/2020		119.0000		
Barium, total	ug/L	MW98-28	09/04/2020		156.0000		
Barium, total	ug/L	MW98-28	03/09/2021		341.0000		
Barium, total	ug/L	MW98-28	09/07/2021		147.0000		
Barium, total	ug/L	MW98-28	03/28/2022		254.0000		
Barium, total	ug/L	MW98-28	09/14/2022		236.0000		
Barium, total	ug/L	MW98-28	03/20/2023		226.0000		
Barium, total	ug/L	MW98-28	09/12/2023		277.0000		
Barium, total	ug/L	MW98-28	03/12/2024		246.0000		
Barium, total	ug/L	MW98-28	09/30/2024		270.0000		
Barium, total	ug/L	MW98-28	03/24/2025		256.0000		
Beryllium, total	ug/L	MW98-28	09/18/2014	ND	4.0000		
Beryllium, total	ug/L	MW98-28	11/13/2014	ND	4.0000		
Beryllium, total	ug/L	MW98-28	03/17/2015	ND	4.0000		
Beryllium, total	ug/L	MW98-28	06/29/2015	ND	4.0000		
Beryllium, total	ug/L	MW98-28	09/11/2015	ND	4.0000		
Beryllium, total	ug/L	MW98-28	03/16/2016	ND	4.0000		
Beryllium, total	ug/L	MW98-28	09/08/2016	ND	4.0000		
Beryllium, total	ug/L	MW98-28	03/17/2017	ND	4.0000		
Beryllium, total	ug/L	MW98-28	09/19/2017	ND	4.0000		
Beryllium, total	ug/L	MW98-28	03/08/2018	ND	4.0000		
Beryllium, total	ug/L	MW98-28	09/24/2018	ND	4.0000		
Beryllium, total	ug/L	MW98-28	03/25/2019	ND	4.0000		
Beryllium, total	ug/L	MW98-28	09/03/2019	ND	4.0000		
Beryllium, total	ug/L	MW98-28	03/23/2020	ND	4.0000		
Beryllium, total	ug/L	MW98-28	09/04/2020	ND	4.0000		
Beryllium, total	ug/L	MW98-28	03/09/2021	ND	4.0000		
Beryllium, total	ug/L	MW98-28	09/07/2021	ND	4.0000		
Beryllium, total	ug/L	MW98-28	03/28/2022	ND	4.0000		
Beryllium, total	ug/L	MW98-28	09/14/2022	ND	4.0000		
Beryllium, total	ug/L	MW98-28	03/20/2023	ND	4.0000		
Beryllium, total	ug/L	MW98-28	09/12/2023	ND	4.0000		
Beryllium, total	ug/L	MW98-28	03/12/2024	ND	4.0000		
Beryllium, total	ug/L	MW98-28	09/30/2024	ND	4.0000		
Beryllium, total	ug/L	MW98-28	03/24/2025	ND	4.0000		
Cadmium, total	ug/L	MW98-28	09/18/2014		11.8000		*
Cadmium, total	ug/L	MW98-28	11/13/2014	ND	0.8000		
Cadmium, total	ug/L	MW98-28	03/17/2015	ND	0.8000		
Cadmium, total	ug/L	MW98-28	06/29/2015		1.1000		
Cadmium, total	ug/L	MW98-28	09/11/2015	ND	0.8000		
Cadmium, total	ug/L	MW98-28	03/16/2016	ND	0.8000		
Cadmium, total	ug/L	MW98-28	09/08/2016	ND	0.8000		
Cadmium, total	ug/L	MW98-28	03/17/2017	ND	0.8000		
Cadmium, total	ug/L	MW98-28	09/19/2017	ND	0.8000		
Cadmium, total	ug/L	MW98-28	03/08/2018	ND	0.8000		
Cadmium, total	ug/L	MW98-28	09/24/2018	ND	0.8000		
Cadmium, total	ug/L	MW98-28	03/25/2019	ND	0.8000		
Cadmium, total	ug/L	MW98-28	09/03/2019	ND	0.8000		
Cadmium, total	ug/L	MW98-28	03/23/2020	ND	0.8000		
Cadmium, total	ug/L	MW98-28	09/04/2020	ND	0.8000		
Cadmium, total	ug/L	MW98-28	03/09/2021	ND	0.8000		
Cadmium, total	ug/L	MW98-28	09/07/2021	ND	0.8000		
Cadmium, total	ug/L	MW98-28	03/28/2022	ND	0.8000		
Cadmium, total	ug/L	MW98-28	09/14/2022	ND	0.8000		

* - Outlier for that well and constituent.

** - ND value replaced with median RL.

*** - ND value replaced with manual RL.

ND = Not detected, Result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Cadmium, total	ug/L	MW98-28	03/20/2023	ND	0.8000		
Cadmium, total	ug/L	MW98-28	09/12/2023	ND	0.8000		
Cadmium, total	ug/L	MW98-28	03/12/2024	ND	0.8000		
Cadmium, total	ug/L	MW98-28	09/30/2024	ND	0.8000		
Cadmium, total	ug/L	MW98-28	03/24/2025	ND	0.8000		
Chromium, total	ug/L	MW98-28	09/18/2014		43.4000		*
Chromium, total	ug/L	MW98-28	11/13/2014	ND	8.0000		
Chromium, total	ug/L	MW98-28	03/17/2015	ND	8.0000		
Chromium, total	ug/L	MW98-28	06/29/2015		24.9000		*
Chromium, total	ug/L	MW98-28	09/11/2015	ND	8.0000		
Chromium, total	ug/L	MW98-28	03/16/2016	ND	8.0000		
Chromium, total	ug/L	MW98-28	09/08/2016	ND	8.0000		
Chromium, total	ug/L	MW98-28	03/17/2017	ND	8.0000		
Chromium, total	ug/L	MW98-28	09/19/2017	ND	8.0000		
Chromium, total	ug/L	MW98-28	03/08/2018	ND	8.0000		
Chromium, total	ug/L	MW98-28	09/24/2018	ND	8.0000		
Chromium, total	ug/L	MW98-28	03/25/2019	ND	8.0000		
Chromium, total	ug/L	MW98-28	09/03/2019	ND	8.0000		
Chromium, total	ug/L	MW98-28	03/23/2020	ND	8.0000		
Chromium, total	ug/L	MW98-28	09/04/2020	ND	8.0000		
Chromium, total	ug/L	MW98-28	03/09/2021		18.6000		
Chromium, total	ug/L	MW98-28	09/07/2021	ND	8.0000		
Chromium, total	ug/L	MW98-28	03/28/2022		12.7000		
Chromium, total	ug/L	MW98-28	09/14/2022	ND	8.0000		
Chromium, total	ug/L	MW98-28	03/20/2023	ND	8.0000		
Chromium, total	ug/L	MW98-28	09/12/2023	ND	8.0000		
Chromium, total	ug/L	MW98-28	03/12/2024	ND	8.0000		
Chromium, total	ug/L	MW98-28	09/30/2024	ND	8.0000		
Chromium, total	ug/L	MW98-28	03/24/2025	ND	8.0000		
Cobalt, total	ug/L	MW98-28	09/18/2014		81.5000		*
Cobalt, total	ug/L	MW98-28	11/13/2014	ND	0.8000		
Cobalt, total	ug/L	MW98-28	03/17/2015	ND	0.8000		
Cobalt, total	ug/L	MW98-28	06/29/2015		27.3000		*
Cobalt, total	ug/L	MW98-28	09/11/2015	ND	0.8000		
Cobalt, total	ug/L	MW98-28	03/16/2016	ND	0.8000		
Cobalt, total	ug/L	MW98-28	09/08/2016		1.0000		
Cobalt, total	ug/L	MW98-28	03/17/2017	ND	0.8000		
Cobalt, total	ug/L	MW98-28	09/19/2017		4.4000		
Cobalt, total	ug/L	MW98-28	03/08/2018	ND	0.8000		
Cobalt, total	ug/L	MW98-28	09/24/2018		4.8000		
Cobalt, total	ug/L	MW98-28	03/25/2019		0.9000		
Cobalt, total	ug/L	MW98-28	09/03/2019		0.9000		
Cobalt, total	ug/L	MW98-28	03/23/2020		1.6000		
Cobalt, total	ug/L	MW98-28	09/04/2020		0.5000		
Cobalt, total	ug/L	MW98-28	03/09/2021		19.1000		*
Cobalt, total	ug/L	MW98-28	09/07/2021		0.4000		
Cobalt, total	ug/L	MW98-28	03/28/2022		4.2000		
Cobalt, total	ug/L	MW98-28	09/14/2022		4.4000		
Cobalt, total	ug/L	MW98-28	03/20/2023		1.1000		
Cobalt, total	ug/L	MW98-28	09/12/2023		1.6000		
Cobalt, total	ug/L	MW98-28	03/12/2024		0.8000		
Cobalt, total	ug/L	MW98-28	09/30/2024		3.9000		
Cobalt, total	ug/L	MW98-28	03/24/2025		2.1000		
Copper, total	ug/L	MW98-28	09/18/2014		97.9000		*
Copper, total	ug/L	MW98-28	11/13/2014	ND	4.0000		
Copper, total	ug/L	MW98-28	03/17/2015	ND	4.0000		
Copper, total	ug/L	MW98-28	06/29/2015		29.9000		*
Copper, total	ug/L	MW98-28	09/11/2015	ND	4.0000		
Copper, total	ug/L	MW98-28	03/16/2016	ND	4.0000		
Copper, total	ug/L	MW98-28	09/08/2016	ND	4.0000		
Copper, total	ug/L	MW98-28	03/17/2017	ND	4.0000		
Copper, total	ug/L	MW98-28	09/19/2017		5.4000		
Copper, total	ug/L	MW98-28	03/08/2018	ND	4.0000		
Copper, total	ug/L	MW98-28	09/24/2018		5.1000		
Copper, total	ug/L	MW98-28	03/25/2019	ND	4.0000		
Copper, total	ug/L	MW98-28	09/03/2019	ND	4.0000		
Copper, total	ug/L	MW98-28	03/23/2020	ND	4.0000		
Copper, total	ug/L	MW98-28	09/04/2020	ND	4.0000		
Copper, total	ug/L	MW98-28	03/09/2021		104.0000		*
Copper, total	ug/L	MW98-28	09/07/2021	ND	4.0000		
Copper, total	ug/L	MW98-28	03/28/2022		7.6000		
Copper, total	ug/L	MW98-28	09/14/2022	ND	4.0000		
Copper, total	ug/L	MW98-28	03/20/2023	ND	4.0000		
Copper, total	ug/L	MW98-28	09/12/2023	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	
Copper, total	ug/L	MW98-28	03/12/2024	ND	4.0000		
Copper, total	ug/L	MW98-28	09/30/2024		4.8000		
Copper, total	ug/L	MW98-28	03/24/2025	ND	4.0000		
Lead, total	ug/L	MW98-28	09/18/2014		38.1000		*
Lead, total	ug/L	MW98-28	11/13/2014	ND	4.0000		
Lead, total	ug/L	MW98-28	03/17/2015	ND	4.0000		
Lead, total	ug/L	MW98-28	06/29/2015		15.6000		*
Lead, total	ug/L	MW98-28	09/11/2015	ND	4.0000		
Lead, total	ug/L	MW98-28	03/16/2016	ND	4.0000		
Lead, total	ug/L	MW98-28	09/08/2016	ND	4.0000		
Lead, total	ug/L	MW98-28	03/17/2017	ND	4.0000		
Lead, total	ug/L	MW98-28	09/19/2017	ND	4.0000		
Lead, total	ug/L	MW98-28	03/08/2018	ND	4.0000		
Lead, total	ug/L	MW98-28	09/24/2018	ND	4.0000		
Lead, total	ug/L	MW98-28	03/25/2019	ND	4.0000		
Lead, total	ug/L	MW98-28	09/03/2019	ND	4.0000		
Lead, total	ug/L	MW98-28	03/23/2020	ND	4.0000		
Lead, total	ug/L	MW98-28	09/04/2020	ND	4.0000		
Lead, total	ug/L	MW98-28	03/09/2021		11.9000		
Lead, total	ug/L	MW98-28	09/07/2021	ND	4.0000		
Lead, total	ug/L	MW98-28	03/28/2022	ND	4.0000		
Lead, total	ug/L	MW98-28	09/14/2022	ND	4.0000		
Lead, total	ug/L	MW98-28	03/20/2023	ND	4.0000		
Lead, total	ug/L	MW98-28	09/12/2023	ND	4.0000		
Lead, total	ug/L	MW98-28	03/12/2024	ND	4.0000		
Lead, total	ug/L	MW98-28	09/30/2024	ND	4.0000		
Lead, total	ug/L	MW98-28	03/24/2025	ND	4.0000		
Nickel, total	ug/L	MW98-28	09/18/2014		105.0000		*
Nickel, total	ug/L	MW98-28	11/13/2014	ND	4.0000		
Nickel, total	ug/L	MW98-28	03/17/2015	ND	4.0000		
Nickel, total	ug/L	MW98-28	06/29/2015		42.0000		*
Nickel, total	ug/L	MW98-28	09/11/2015	ND	4.0000		
Nickel, total	ug/L	MW98-28	03/16/2016	ND	4.0000		
Nickel, total	ug/L	MW98-28	09/08/2016	ND	4.0000		
Nickel, total	ug/L	MW98-28	03/17/2017		4.0000		
Nickel, total	ug/L	MW98-28	09/19/2017		10.2000		
Nickel, total	ug/L	MW98-28	03/08/2018	ND	4.0000		
Nickel, total	ug/L	MW98-28	09/24/2018		7.6000		
Nickel, total	ug/L	MW98-28	03/25/2019	ND	4.0000		
Nickel, total	ug/L	MW98-28	09/03/2019	ND	4.0000		
Nickel, total	ug/L	MW98-28	03/23/2020		6.3000		
Nickel, total	ug/L	MW98-28	09/04/2020	ND	4.0000		
Nickel, total	ug/L	MW98-28	03/09/2021		33.6000		*
Nickel, total	ug/L	MW98-28	09/07/2021	ND	4.0000		
Nickel, total	ug/L	MW98-28	03/28/2022		17.4000		
Nickel, total	ug/L	MW98-28	09/14/2022		4.8000		
Nickel, total	ug/L	MW98-28	03/20/2023		6.6000		
Nickel, total	ug/L	MW98-28	09/12/2023		8.2000		
Nickel, total	ug/L	MW98-28	03/12/2024		5.8000		
Nickel, total	ug/L	MW98-28	09/30/2024		10.1000		
Nickel, total	ug/L	MW98-28	03/24/2025		7.8000		
Selenium, total	ug/L	MW98-28	09/18/2014		9.0000		
Selenium, total	ug/L	MW98-28	11/13/2014	ND	4.0000		
Selenium, total	ug/L	MW98-28	03/17/2015	ND	4.0000		
Selenium, total	ug/L	MW98-28	06/29/2015	ND	4.0000		
Selenium, total	ug/L	MW98-28	09/11/2015	ND	4.0000		
Selenium, total	ug/L	MW98-28	03/16/2016	ND	4.0000		
Selenium, total	ug/L	MW98-28	09/08/2016	ND	4.0000		
Selenium, total	ug/L	MW98-28	03/17/2017	ND	4.0000		
Selenium, total	ug/L	MW98-28	09/19/2017	ND	4.0000		
Selenium, total	ug/L	MW98-28	03/08/2018	ND	4.0000		
Selenium, total	ug/L	MW98-28	09/24/2018	ND	4.0000		
Selenium, total	ug/L	MW98-28	03/25/2019	ND	4.0000		
Selenium, total	ug/L	MW98-28	09/03/2019	ND	4.0000		
Selenium, total	ug/L	MW98-28	03/23/2020	ND	4.0000		
Selenium, total	ug/L	MW98-28	09/04/2020	ND	4.0000		
Selenium, total	ug/L	MW98-28	03/09/2021	ND	4.0000		
Selenium, total	ug/L	MW98-28	09/07/2021	ND	4.0000		
Selenium, total	ug/L	MW98-28	03/28/2022	ND	4.0000		
Selenium, total	ug/L	MW98-28	09/14/2022	ND	4.0000		
Selenium, total	ug/L	MW98-28	03/20/2023	ND	4.0000		
Selenium, total	ug/L	MW98-28	09/12/2023	ND	4.0000		
Selenium, total	ug/L	MW98-28	03/12/2024	ND	4.0000		
Selenium, total	ug/L	MW98-28	09/30/2024	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	MW98-28	03/24/2025	ND	4.0000		
Silver, total	ug/L	MW98-28	09/18/2014	ND	4.0000		
Silver, total	ug/L	MW98-28	11/13/2014	ND	4.0000		
Silver, total	ug/L	MW98-28	03/17/2015	ND	4.0000		
Silver, total	ug/L	MW98-28	06/29/2015	ND	4.0000		
Silver, total	ug/L	MW98-28	09/11/2015	ND	4.0000		
Silver, total	ug/L	MW98-28	03/16/2016	ND	4.0000		
Silver, total	ug/L	MW98-28	09/08/2016	ND	4.0000		
Silver, total	ug/L	MW98-28	03/17/2017	ND	4.0000		
Silver, total	ug/L	MW98-28	09/19/2017	ND	4.0000		
Silver, total	ug/L	MW98-28	03/08/2018	ND	4.0000		
Silver, total	ug/L	MW98-28	09/24/2018	ND	4.0000		
Silver, total	ug/L	MW98-28	03/25/2019	ND	4.0000		
Silver, total	ug/L	MW98-28	09/03/2019	ND	4.0000		
Silver, total	ug/L	MW98-28	03/23/2020	ND	4.0000		
Silver, total	ug/L	MW98-28	09/04/2020	ND	4.0000		
Silver, total	ug/L	MW98-28	03/09/2021	ND	4.0000		
Silver, total	ug/L	MW98-28	09/07/2021	ND	4.0000		
Silver, total	ug/L	MW98-28	03/28/2022	ND	4.0000		
Silver, total	ug/L	MW98-28	09/14/2022	ND	4.0000		
Silver, total	ug/L	MW98-28	03/20/2023	ND	4.0000		
Silver, total	ug/L	MW98-28	09/12/2023	ND	4.0000		
Silver, total	ug/L	MW98-28	03/12/2024	ND	4.0000		
Silver, total	ug/L	MW98-28	09/30/2024	ND	4.0000		
Silver, total	ug/L	MW98-28	03/24/2025	ND	4.0000		
Thallium, total	ug/L	MW98-28	09/18/2014	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW98-28	11/13/2014	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW98-28	03/17/2015	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW98-28	06/29/2015	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW98-28	09/11/2015	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW98-28	03/16/2016	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW98-28	09/08/2016	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW98-28	03/17/2017	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW98-28	09/19/2017	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW98-28	03/08/2018	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW98-28	09/24/2018	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW98-28	03/25/2019	ND	2.0000		
Thallium, total	ug/L	MW98-28	09/03/2019	ND	2.0000		
Thallium, total	ug/L	MW98-28	03/23/2020	ND	2.0000		
Thallium, total	ug/L	MW98-28	09/04/2020	ND	2.0000		
Thallium, total	ug/L	MW98-28	03/09/2021	ND	2.0000		
Thallium, total	ug/L	MW98-28	09/07/2021	ND	2.0000		
Thallium, total	ug/L	MW98-28	03/28/2022	ND	2.0000		
Thallium, total	ug/L	MW98-28	09/14/2022	ND	2.0000		
Thallium, total	ug/L	MW98-28	03/20/2023	ND	2.0000		
Thallium, total	ug/L	MW98-28	09/12/2023	ND	2.0000		
Thallium, total	ug/L	MW98-28	03/12/2024	ND	2.0000		
Thallium, total	ug/L	MW98-28	09/30/2024	ND	2.0000		
Thallium, total	ug/L	MW98-28	03/24/2025	ND	2.0000		
Vanadium, total	ug/L	MW98-28	09/18/2014		87.6000		*
Vanadium, total	ug/L	MW98-28	11/13/2014	ND	20.0000		
Vanadium, total	ug/L	MW98-28	03/17/2015	ND	20.0000		
Vanadium, total	ug/L	MW98-28	06/29/2015		40.6000		
Vanadium, total	ug/L	MW98-28	09/11/2015	ND	20.0000		
Vanadium, total	ug/L	MW98-28	03/16/2016	ND	20.0000		
Vanadium, total	ug/L	MW98-28	09/08/2016	ND	20.0000		
Vanadium, total	ug/L	MW98-28	03/17/2017	ND	20.0000		
Vanadium, total	ug/L	MW98-28	09/19/2017	ND	20.0000		
Vanadium, total	ug/L	MW98-28	03/08/2018	ND	20.0000		
Vanadium, total	ug/L	MW98-28	09/24/2018	ND	20.0000		
Vanadium, total	ug/L	MW98-28	03/25/2019	ND	20.0000		
Vanadium, total	ug/L	MW98-28	09/03/2019	ND	20.0000		
Vanadium, total	ug/L	MW98-28	03/23/2020	ND	20.0000		
Vanadium, total	ug/L	MW98-28	09/04/2020	ND	20.0000		
Vanadium, total	ug/L	MW98-28	03/09/2021		29.2000		
Vanadium, total	ug/L	MW98-28	09/07/2021	ND	20.0000		
Vanadium, total	ug/L	MW98-28	03/28/2022	ND	20.0000		
Vanadium, total	ug/L	MW98-28	09/14/2022	ND	20.0000		
Vanadium, total	ug/L	MW98-28	03/20/2023	ND	20.0000		
Vanadium, total	ug/L	MW98-28	09/12/2023	ND	20.0000		
Vanadium, total	ug/L	MW98-28	03/12/2024	ND	20.0000		
Vanadium, total	ug/L	MW98-28	09/30/2024	ND	20.0000		
Vanadium, total	ug/L	MW98-28	03/24/2025	ND	20.0000		
Zinc, total	ug/L	MW98-28	09/18/2014		127.0000		*

* - Outlier for that well and constituent.

** - ND value replaced with median RL.

*** - ND value replaced with manual RL.

ND = Not detected, Result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Zinc, total	ug/L	MW98-28	11/13/2014	ND	20.0000		
Zinc, total	ug/L	MW98-28	03/17/2015	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW98-28	06/29/2015		59.4000		
Zinc, total	ug/L	MW98-28	09/11/2015	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW98-28	03/16/2016	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW98-28	09/08/2016		8.2000		
Zinc, total	ug/L	MW98-28	03/17/2017	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW98-28	09/19/2017		11.1000		
Zinc, total	ug/L	MW98-28	03/08/2018	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW98-28	09/24/2018		13.2000		
Zinc, total	ug/L	MW98-28	03/25/2019	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW98-28	09/03/2019		10.6000		
Zinc, total	ug/L	MW98-28	03/23/2020	ND	20.0000		
Zinc, total	ug/L	MW98-28	09/04/2020	ND	20.0000		
Zinc, total	ug/L	MW98-28	03/09/2021		37.6000		
Zinc, total	ug/L	MW98-28	09/07/2021	ND	20.0000		
Zinc, total	ug/L	MW98-28	03/28/2022	ND	20.0000		
Zinc, total	ug/L	MW98-28	09/14/2022	ND	20.0000		
Zinc, total	ug/L	MW98-28	03/20/2023	ND	20.0000		
Zinc, total	ug/L	MW98-28	09/12/2023	ND	20.0000		
Zinc, total	ug/L	MW98-28	03/12/2024	ND	20.0000		
Zinc, total	ug/L	MW98-28	09/30/2024	ND	20.0000		
Zinc, total	ug/L	MW98-28	03/24/2025	ND	20.0000		

* - Outlier for that well and constituent.

** - ND value replaced with median RL.

*** - ND value replaced with manual RL.

ND = Not detected, Result = detection limit.

Table 2

Most Current Downgradient Monitoring Data

Constituent	Units	Well	Date		Result		Pred. Limit
Antimony, total	ug/L	GU-3	03/24/2025	ND	2.0000		4.5000
Arsenic, total	ug/L	GU-3	03/24/2025	ND	4.0000		50.6000
Barium, total	ug/L	GU-3	03/24/2025		719.0000		874.0000
Beryllium, total	ug/L	GU-3	03/24/2025	ND	4.0000		4.0000
Cadmium, total	ug/L	GU-3	03/24/2025	ND	0.8000		2.4000
Chromium, total	ug/L	GU-3	03/24/2025	ND	8.0000		18.6000
Cobalt, total	ug/L	GU-3	03/24/2025	ND	0.4000		7.0000
Copper, total	ug/L	GU-3	03/24/2025	ND	4.0000		19.5000
Lead, total	ug/L	GU-3	03/24/2025	ND	4.0000		11.9000
Nickel, total	ug/L	GU-3	03/24/2025		30.6000	***	17.4000
Selenium, total	ug/L	GU-3	03/24/2025	ND	4.0000		9.0000
Silver, total	ug/L	GU-3	03/24/2025	ND	4.0000		4.0000
Thallium, total	ug/L	GU-3	03/24/2025	ND	2.0000		2.0000
Vanadium, total	ug/L	GU-3	03/24/2025	ND	20.0000		40.6000
Zinc, total	ug/L	GU-3	03/24/2025	ND	20.0000		144.0000
Antimony, total	ug/L	GU-4	03/24/2025	ND	1.0000		4.5000
Arsenic, total	ug/L	GU-4	03/24/2025		2.3000		50.6000
Barium, total	ug/L	GU-4	03/24/2025		350.0000		874.0000
Beryllium, total	ug/L	GU-4	03/24/2025	ND	0.5000		4.0000
Cadmium, total	ug/L	GU-4	03/24/2025		0.2000		2.4000
Chromium, total	ug/L	GU-4	03/24/2025		7.6000		18.6000
Cobalt, total	ug/L	GU-4	03/24/2025		2.9000		7.0000
Copper, total	ug/L	GU-4	03/24/2025		6.5000		19.5000
Lead, total	ug/L	GU-4	03/24/2025		3.8000		11.9000
Nickel, total	ug/L	GU-4	03/24/2025		9.5000		17.4000
Selenium, total	ug/L	GU-4	03/24/2025	ND	2.0000		9.0000
Silver, total	ug/L	GU-4	03/24/2025	ND	5.0000		4.0000
Thallium, total	ug/L	GU-4	03/24/2025	ND	0.5000		2.0000
Vanadium, total	ug/L	GU-4	03/24/2025		13.0000		40.6000
Zinc, total	ug/L	GU-4	03/24/2025		243.0000	***	144.0000
Antimony, total	ug/L	MW06-37	03/24/2025	ND	1.0000		4.5000
Arsenic, total	ug/L	MW06-37	03/24/2025	ND	2.0000		50.6000
Barium, total	ug/L	MW06-37	03/24/2025		118.0000		874.0000
Beryllium, total	ug/L	MW06-37	03/24/2025	ND	0.5000		4.0000
Cadmium, total	ug/L	MW06-37	03/24/2025		0.5000		2.4000
Chromium, total	ug/L	MW06-37	03/24/2025		1.9000		18.6000
Cobalt, total	ug/L	MW06-37	03/24/2025	ND	0.5000		7.0000
Copper, total	ug/L	MW06-37	03/24/2025	ND	5.0000		19.5000
Lead, total	ug/L	MW06-37	03/24/2025	ND	1.0000		11.9000
Nickel, total	ug/L	MW06-37	03/24/2025	ND	5.0000		17.4000
Selenium, total	ug/L	MW06-37	03/24/2025		2.1000		9.0000
Silver, total	ug/L	MW06-37	03/24/2025	ND	5.0000		4.0000
Thallium, total	ug/L	MW06-37	03/24/2025	ND	0.5000		2.0000
Vanadium, total	ug/L	MW06-37	03/24/2025	ND	2.0000		40.6000
Zinc, total	ug/L	MW06-37	03/24/2025	ND	5.0000		144.0000
Antimony, total	ug/L	MW06-38	03/24/2025	ND	1.0000		4.5000
Arsenic, total	ug/L	MW06-38	03/24/2025	ND	2.0000		50.6000
Barium, total	ug/L	MW06-38	03/24/2025		201.0000		874.0000
Beryllium, total	ug/L	MW06-38	03/24/2025	ND	0.5000		4.0000
Cadmium, total	ug/L	MW06-38	03/24/2025		0.4000		2.4000
Chromium, total	ug/L	MW06-38	03/24/2025		1.9000		18.6000
Cobalt, total	ug/L	MW06-38	03/24/2025	ND	0.5000		7.0000
Copper, total	ug/L	MW06-38	03/24/2025	ND	5.0000		19.5000
Lead, total	ug/L	MW06-38	03/24/2025	ND	1.0000		11.9000
Nickel, total	ug/L	MW06-38	03/24/2025	ND	5.0000		17.4000
Selenium, total	ug/L	MW06-38	03/24/2025		3.8000		9.0000
Silver, total	ug/L	MW06-38	03/24/2025	ND	5.0000		4.0000
Thallium, total	ug/L	MW06-38	03/24/2025	ND	0.5000		2.0000
Vanadium, total	ug/L	MW06-38	03/24/2025	ND	2.0000		40.6000
Zinc, total	ug/L	MW06-38	03/24/2025		5.6000		144.0000
Antimony, total	ug/L	MW06-39	03/24/2025	ND	1.0000		4.5000
Arsenic, total	ug/L	MW06-39	03/24/2025	ND	2.0000		50.6000
Barium, total	ug/L	MW06-39	03/24/2025		182.0000		874.0000
Beryllium, total	ug/L	MW06-39	03/24/2025	ND	0.5000		4.0000
Cadmium, total	ug/L	MW06-39	03/24/2025	ND	0.2000		2.4000
Chromium, total	ug/L	MW06-39	03/24/2025		1.8000		18.6000
Cobalt, total	ug/L	MW06-39	03/24/2025	ND	0.5000		7.0000
Copper, total	ug/L	MW06-39	03/24/2025	ND	5.0000		19.5000
Lead, total	ug/L	MW06-39	03/24/2025	ND	1.0000		11.9000
Nickel, total	ug/L	MW06-39	03/24/2025	ND	5.0000		17.4000
Selenium, total	ug/L	MW06-39	03/24/2025	ND	2.0000		9.0000
Silver, total	ug/L	MW06-39	03/24/2025	ND	5.0000		4.0000

* - Current value failed - awaiting verification.

** - Current value passed - previous exceedance not verified.

*** - Current value failed - exceedance verified.

**** - Current value passed - awaiting one more verification.

***** - Insufficient background data to compute prediction limit.

ND = Not Detected, Result = detection limit.

Table 2

Most Current Downgradient Monitoring Data

Constituent	Units	Well	Date		Result	Pred. Limit
Thallium, total	ug/L	MW06-39	03/24/2025	ND	0.5000	2.0000
Vanadium, total	ug/L	MW06-39	03/24/2025	ND	2.0000	40.6000
Zinc, total	ug/L	MW06-39	03/24/2025	ND	5.0000	144.0000
Antimony, total	ug/L	MW09-40	03/24/2025		2.8000	4.5000
Arsenic, total	ug/L	MW09-40	03/24/2025	ND	4.0000	50.6000
Barium, total	ug/L	MW09-40	03/24/2025		15.2000	874.0000
Beryllium, total	ug/L	MW09-40	03/24/2025	ND	4.0000	4.0000
Cadmium, total	ug/L	MW09-40	03/24/2025	ND	0.8000	2.4000
Chromium, total	ug/L	MW09-40	03/24/2025	ND	8.0000	18.6000
Cobalt, total	ug/L	MW09-40	03/24/2025	ND	0.4000	7.0000
Copper, total	ug/L	MW09-40	03/24/2025	ND	4.0000	19.5000
Lead, total	ug/L	MW09-40	03/24/2025	ND	4.0000	11.9000
Nickel, total	ug/L	MW09-40	03/24/2025	ND	4.0000	17.4000
Selenium, total	ug/L	MW09-40	03/24/2025	ND	4.0000	9.0000
Silver, total	ug/L	MW09-40	03/24/2025	ND	4.0000	4.0000
Thallium, total	ug/L	MW09-40	03/24/2025	ND	2.0000	2.0000
Vanadium, total	ug/L	MW09-40	03/24/2025	ND	20.0000	40.6000
Zinc, total	ug/L	MW09-40	03/24/2025	ND	20.0000	144.0000
Antimony, total	ug/L	MW21-43	03/24/2025	ND	2.0000	4.5000
Arsenic, total	ug/L	MW21-43	03/24/2025		4.3000	50.6000
Barium, total	ug/L	MW21-43	03/24/2025		211.0000	874.0000
Beryllium, total	ug/L	MW21-43	03/24/2025	ND	4.0000	4.0000
Cadmium, total	ug/L	MW21-43	03/24/2025	ND	0.8000	2.4000
Chromium, total	ug/L	MW21-43	03/24/2025	ND	8.0000	18.6000
Cobalt, total	ug/L	MW21-43	03/24/2025		0.7000	7.0000
Copper, total	ug/L	MW21-43	03/24/2025	ND	4.0000	19.5000
Lead, total	ug/L	MW21-43	03/24/2025	ND	4.0000	11.9000
Nickel, total	ug/L	MW21-43	03/24/2025		6.8000	17.4000
Selenium, total	ug/L	MW21-43	03/24/2025	ND	4.0000	9.0000
Silver, total	ug/L	MW21-43	03/24/2025	ND	4.0000	4.0000
Thallium, total	ug/L	MW21-43	03/24/2025	ND	2.0000	2.0000
Vanadium, total	ug/L	MW21-43	03/24/2025	ND	20.0000	40.6000
Zinc, total	ug/L	MW21-43	03/24/2025	ND	20.0000	144.0000
Antimony, total	ug/L	MW88-3	03/24/2025	ND	2.0000	4.5000
Arsenic, total	ug/L	MW88-3	03/24/2025	ND	4.0000	50.6000
Barium, total	ug/L	MW88-3	03/24/2025		146.0000	874.0000
Beryllium, total	ug/L	MW88-3	03/24/2025	ND	4.0000	4.0000
Cadmium, total	ug/L	MW88-3	03/24/2025	ND	0.8000	2.4000
Chromium, total	ug/L	MW88-3	03/24/2025	ND	8.0000	18.6000
Cobalt, total	ug/L	MW88-3	03/24/2025	ND	0.4000	7.0000
Copper, total	ug/L	MW88-3	03/24/2025	ND	4.0000	19.5000
Lead, total	ug/L	MW88-3	03/24/2025	ND	4.0000	11.9000
Nickel, total	ug/L	MW88-3	03/24/2025	ND	4.0000	17.4000
Selenium, total	ug/L	MW88-3	03/24/2025	ND	4.0000	9.0000
Silver, total	ug/L	MW88-3	03/24/2025	ND	4.0000	4.0000
Thallium, total	ug/L	MW88-3	03/24/2025	ND	2.0000	2.0000
Vanadium, total	ug/L	MW88-3	03/24/2025	ND	20.0000	40.6000
Zinc, total	ug/L	MW88-3	03/24/2025	ND	20.0000	144.0000
Antimony, total	ug/L	MW91-10	03/24/2025	ND	2.0000	4.5000
Arsenic, total	ug/L	MW91-10	03/24/2025	ND	4.0000	50.6000
Barium, total	ug/L	MW91-10	03/24/2025		38.4000	874.0000
Beryllium, total	ug/L	MW91-10	03/24/2025	ND	4.0000	4.0000
Cadmium, total	ug/L	MW91-10	03/24/2025		1.1000	2.4000
Chromium, total	ug/L	MW91-10	03/24/2025	ND	8.0000	18.6000
Cobalt, total	ug/L	MW91-10	03/24/2025	ND	0.4000	7.0000
Copper, total	ug/L	MW91-10	03/24/2025	ND	4.0000	19.5000
Lead, total	ug/L	MW91-10	03/24/2025	ND	4.0000	11.9000
Nickel, total	ug/L	MW91-10	03/24/2025	ND	4.0000	17.4000
Selenium, total	ug/L	MW91-10	03/24/2025		8.6000	9.0000
Silver, total	ug/L	MW91-10	03/24/2025	ND	4.0000	4.0000
Thallium, total	ug/L	MW91-10	03/24/2025	ND	2.0000	2.0000
Vanadium, total	ug/L	MW91-10	03/24/2025	ND	20.0000	40.6000
Zinc, total	ug/L	MW91-10	03/24/2025	ND	20.0000	144.0000
Antimony, total	ug/L	MW94-18	03/24/2025	ND	2.0000	4.5000
Arsenic, total	ug/L	MW94-18	03/24/2025	ND	4.0000	50.6000
Barium, total	ug/L	MW94-18	03/24/2025		25.2000	874.0000
Beryllium, total	ug/L	MW94-18	03/24/2025	ND	4.0000	4.0000
Cadmium, total	ug/L	MW94-18	03/24/2025	ND	0.8000	2.4000
Chromium, total	ug/L	MW94-18	03/24/2025	ND	8.0000	18.6000
Cobalt, total	ug/L	MW94-18	03/24/2025	ND	0.4000	7.0000
Copper, total	ug/L	MW94-18	03/24/2025	ND	4.0000	19.5000
Lead, total	ug/L	MW94-18	03/24/2025	ND	4.0000	11.9000

* - 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
Nickel, total	ug/L	MW94-18	03/24/2025	ND	4.0000		17.4000
Selenium, total	ug/L	MW94-18	03/24/2025	ND	4.0000		9.0000
Silver, total	ug/L	MW94-18	03/24/2025	ND	4.0000		4.0000
Thallium, total	ug/L	MW94-18	03/24/2025	ND	2.0000		2.0000
Vanadium, total	ug/L	MW94-18	03/24/2025	ND	20.0000		40.6000
Zinc, total	ug/L	MW94-18	03/24/2025	ND	20.0000		144.0000
Antimony, total	ug/L	MW96-21	03/24/2025	ND	2.0000		4.5000
Arsenic, total	ug/L	MW96-21	03/24/2025		21.2000		50.6000
Barium, total	ug/L	MW96-21	03/24/2025		296.0000		874.0000
Beryllium, total	ug/L	MW96-21	03/24/2025	ND	4.0000		4.0000
Cadmium, total	ug/L	MW96-21	03/24/2025	ND	0.8000		2.4000
Chromium, total	ug/L	MW96-21	03/24/2025	ND	8.0000		18.6000
Cobalt, total	ug/L	MW96-21	03/24/2025		0.6000		7.0000
Copper, total	ug/L	MW96-21	03/24/2025	ND	4.0000		19.5000
Lead, total	ug/L	MW96-21	03/24/2025	ND	4.0000		11.9000
Nickel, total	ug/L	MW96-21	03/24/2025		4.6000		17.4000
Selenium, total	ug/L	MW96-21	03/24/2025	ND	4.0000		9.0000
Silver, total	ug/L	MW96-21	03/24/2025	ND	4.0000		4.0000
Thallium, total	ug/L	MW96-21	03/24/2025	ND	2.0000		2.0000
Vanadium, total	ug/L	MW96-21	03/24/2025	ND	20.0000		40.6000
Zinc, total	ug/L	MW96-21	03/24/2025	ND	20.0000		144.0000
Antimony, total	ug/L	MW96-23	03/24/2025	ND	2.0000		4.5000
Arsenic, total	ug/L	MW96-23	03/24/2025		37.7000		50.6000
Barium, total	ug/L	MW96-23	03/24/2025		603.0000		874.0000
Beryllium, total	ug/L	MW96-23	03/24/2025	ND	4.0000		4.0000
Cadmium, total	ug/L	MW96-23	03/24/2025	ND	0.8000		2.4000
Chromium, total	ug/L	MW96-23	03/24/2025	ND	8.0000		18.6000
Cobalt, total	ug/L	MW96-23	03/24/2025	ND	0.4000		7.0000
Copper, total	ug/L	MW96-23	03/24/2025	ND	4.0000		19.5000
Lead, total	ug/L	MW96-23	03/24/2025	ND	4.0000		11.9000
Nickel, total	ug/L	MW96-23	03/24/2025	ND	4.0000		17.4000
Selenium, total	ug/L	MW96-23	03/24/2025	ND	4.0000		9.0000
Silver, total	ug/L	MW96-23	03/24/2025	ND	4.0000		4.0000
Thallium, total	ug/L	MW96-23	03/24/2025	ND	2.0000		2.0000
Vanadium, total	ug/L	MW96-23	03/24/2025	ND	20.0000		40.6000
Zinc, total	ug/L	MW96-23	03/24/2025	ND	20.0000		144.0000
Antimony, total	ug/L	MW96-24	03/24/2025	ND	2.0000		4.5000
Arsenic, total	ug/L	MW96-24	03/24/2025	ND	4.0000		50.6000
Barium, total	ug/L	MW96-24	03/24/2025		544.0000		874.0000
Beryllium, total	ug/L	MW96-24	03/24/2025	ND	4.0000		4.0000
Cadmium, total	ug/L	MW96-24	03/24/2025	ND	0.8000		2.4000
Chromium, total	ug/L	MW96-24	03/24/2025	ND	8.0000		18.6000
Cobalt, total	ug/L	MW96-24	03/24/2025	ND	0.4000		7.0000
Copper, total	ug/L	MW96-24	03/24/2025	ND	4.0000		19.5000
Lead, total	ug/L	MW96-24	03/24/2025	ND	4.0000		11.9000
Nickel, total	ug/L	MW96-24	03/24/2025	ND	4.0000		17.4000
Selenium, total	ug/L	MW96-24	03/24/2025	ND	4.0000		9.0000
Silver, total	ug/L	MW96-24	03/24/2025	ND	4.0000		4.0000
Thallium, total	ug/L	MW96-24	03/24/2025	ND	2.0000		2.0000
Vanadium, total	ug/L	MW96-24	03/24/2025	ND	20.0000		40.6000
Zinc, total	ug/L	MW96-24	03/24/2025	ND	20.0000		144.0000
Antimony, total	ug/L	MW98-25	03/24/2025	ND	1.0000		4.5000
Arsenic, total	ug/L	MW98-25	03/24/2025		6.2000		50.6000
Barium, total	ug/L	MW98-25	03/24/2025		90.7000		874.0000
Beryllium, total	ug/L	MW98-25	03/24/2025	ND	0.5000		4.0000
Cadmium, total	ug/L	MW98-25	03/24/2025	ND	0.2000		2.4000
Chromium, total	ug/L	MW98-25	03/24/2025		1.5000		18.6000
Cobalt, total	ug/L	MW98-25	03/24/2025		8.7000	***	7.0000
Copper, total	ug/L	MW98-25	03/24/2025	ND	5.0000		19.5000
Lead, total	ug/L	MW98-25	03/24/2025	ND	1.0000		11.9000
Nickel, total	ug/L	MW98-25	03/24/2025		19.2000	***	17.4000
Selenium, total	ug/L	MW98-25	03/24/2025	ND	2.0000		9.0000
Silver, total	ug/L	MW98-25	03/24/2025	ND	5.0000		4.0000
Thallium, total	ug/L	MW98-25	03/24/2025	ND	0.5000		2.0000
Vanadium, total	ug/L	MW98-25	03/24/2025	ND	2.0000		40.6000
Zinc, total	ug/L	MW98-25	03/24/2025	ND	5.0000		144.0000
Antimony, total	ug/L	Sramp 1	03/24/2025	ND	1.0000		4.5000
Arsenic, total	ug/L	Sramp 1	03/24/2025		5.6000		50.6000
Barium, total	ug/L	Sramp 1	03/24/2025		139.0000		874.0000
Beryllium, total	ug/L	Sramp 1	03/24/2025	ND	0.5000		4.0000
Cadmium, total	ug/L	Sramp 1	03/24/2025	ND	0.2000		2.4000
Chromium, total	ug/L	Sramp 1	03/24/2025		1.2000		18.6000

* - 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
Cobalt, total	ug/L	Sramp 1	03/24/2025		1.7000		7.0000
Copper, total	ug/L	Sramp 1	03/24/2025	ND	5.0000		19.5000
Lead, total	ug/L	Sramp 1	03/24/2025	ND	1.0000		11.9000
Nickel, total	ug/L	Sramp 1	03/24/2025		6.5000		17.4000
Selenium, total	ug/L	Sramp 1	03/24/2025	ND	2.0000		9.0000
Silver, total	ug/L	Sramp 1	03/24/2025	ND	5.0000		4.0000
Thallium, total	ug/L	Sramp 1	03/24/2025	ND	0.5000		2.0000
Vanadium, total	ug/L	Sramp 1	03/24/2025	ND	2.0000		40.6000
Zinc, total	ug/L	Sramp 1	03/24/2025	ND	5.0000		144.0000

* - 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	4	115	0.035	6	457	0.013
Arsenic, total	33	114	0.289	168	461	0.364
Barium, total	115	115	1.000	457	458	0.998
Beryllium, total	0	114	0.000	1	460	0.002
Cadmium, total	11	111	0.099	58	462	0.126
Chromium, total	4	112	0.036	23	457	0.050
Cobalt, total	50	110	0.455	129	461	0.280
Copper, total	12	110	0.109	96	460	0.209
Lead, total	3	109	0.028	48	461	0.104
Nickel, total	40	112	0.357	221	461	0.479
Selenium, total	4	115	0.035	22	460	0.048
Silver, total	0	115	0.000	0	457	0.000
Thallium, total	0	114	0.000	3	457	0.007
Vanadium, total	2	113	0.018	32	460	0.070
Zinc, total	20	114	0.175	152	461	0.330

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	4	115	0.035	1.635	1.142					2.326	normal	nonpar
Arsenic, total	33	114	0.289	0.955	0.682					2.326	normal	nonpar
Barium, total	115	115	1.000	6.028	3.239					2.326	non-norm	nonpar
Beryllium, total	0	114	0.000									nonpar
Cadmium, total	11	111	0.099	0.536	1.402					2.326	normal	nonpar
Chromium, total	4	112	0.036									nonpar
Cobalt, total	50	110	0.455	3.994	0.370					2.326	lognor	nonpar
Copper, total	12	110	0.109	0.675	0.612					2.326	normal	nonpar
Lead, total	3	109	0.028									nonpar
Nickel, total	40	112	0.357	1.506	0.375					2.326	normal	nonpar
Selenium, total	4	115	0.035	0.550	0.031					2.326	normal	nonpar
Silver, total	0	115	0.000									nonpar
Thallium, total	0	114	0.000									nonpar
Vanadium, total	2	113	0.018									nonpar
Zinc, total	20	114	0.175	1.923	0.131					2.326	normal	nonpar

* - Distribution override for that constituent.

Fit to distribution is confirmed if $G \leq$ 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	4	115					4.5000	nonpar		0.99
Arsenic, total	ug/L	33	114					50.6000	nonpar		0.99
Barium, total	ug/L	115	115					874.0000	nonpar		0.99
Beryllium, total	ug/L	0	114					4.0000	nonpar	***	0.99
Cadmium, total	ug/L	11	111					2.4000	nonpar		0.99
Chromium, total	ug/L	4	112					18.6000	nonpar		0.99
Cobalt, total	ug/L	50	110					7.0000	nonpar		0.99
Copper, total	ug/L	12	110					19.5000	nonpar		0.99
Lead, total	ug/L	3	109					11.9000	nonpar		0.99
Nickel, total	ug/L	40	112					17.4000	nonpar		0.99
Selenium, total	ug/L	4	115					9.0000	nonpar		0.99
Silver, total	ug/L	0	115					4.0000	nonpar	***	0.99
Thallium, total	ug/L	0	114					2.0000	nonpar	***	0.99
Vanadium, total	ug/L	2	113					40.6000	nonpar		0.99
Zinc, total	ug/L	20	114					144.0000	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
Cadmium, total	ug/L	MW02-15A	03/16/2016	3.6000		09/18/2014-03/24/2025	24	0.4969
Copper, total	ug/L	MW02-15A	03/09/2021	26.0000		09/18/2014-03/24/2025	24	0.4969
Lead, total	ug/L	MW02-30A	09/14/2022	14.8000		03/16/2016-03/24/2025	20	0.5503
Lead, total	ug/L	MW02-30A	03/20/2023	22.3000		03/16/2016-03/24/2025	20	0.5503
Cadmium, total	ug/L	MW88-2	03/16/2016	4.6000		09/18/2014-03/24/2025	23	0.5162
Cadmium, total	ug/L	MW88-2	09/19/2017	2.5000		09/18/2014-03/24/2025	23	0.5162
Cobalt, total	ug/L	MW88-2	09/14/2022	2.6000		09/18/2014-03/24/2025	23	0.5065
Beryllium, total	ug/L	MW91-8	03/24/2025	0.5000	< 0.5000	09/19/2014-03/24/2025	24	0.4969
Chromium, total	ug/L	MW91-8	03/24/2025	1.6000		09/19/2014-03/24/2025	24	0.4969
Cobalt, total	ug/L	MW91-8	09/14/2022	2.7000		09/19/2014-03/24/2025	24	0.4969
Lead, total	ug/L	MW91-8	03/24/2025	1.0000	< 1.0000	09/19/2014-03/24/2025	24	0.4969
Thallium, total	ug/L	MW91-8	03/24/2025	0.5000	< 0.5000	09/19/2014-03/24/2025	24	0.4969
Vanadium, total	ug/L	MW91-8	03/24/2025	2.0000	< 2.0000	09/19/2014-03/24/2025	24	0.4969
Arsenic, total	ug/L	MW98-28	09/18/2014	18.9000		09/18/2014-03/24/2025	24	0.4969
Chromium, total	ug/L	MW98-28	09/18/2014	43.4000		09/18/2014-03/24/2025	24	0.5065
Chromium, total	ug/L	MW98-28	06/29/2015	24.9000		09/18/2014-03/24/2025	24	0.5065
Copper, total	ug/L	MW98-28	06/29/2015	29.9000		09/18/2014-03/24/2025	22	0.5162
Lead, total	ug/L	MW98-28	06/29/2015	15.6000		09/18/2014-03/24/2025	23	0.5065
Nickel, total	ug/L	MW98-28	03/09/2021	33.6000		09/18/2014-03/24/2025	22	0.5162

N = Total number of independent measurements in background at each well.

Date Range = Dates of the first and last measurements included in background at each well.

Critical Value depends on the significance level and on N-1 when the two most extreme values are tested or N for the most extreme value.

Table 8

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

Constituent	Units	Well	Date		Result	Pred. Limit
Nickel, total	ug/L	GU-3	09/13/2021		15.2000	17.4000
Nickel, total	ug/L	GU-3	12/03/2021		12.4000	17.4000
Nickel, total	ug/L	GU-3	03/28/2022		12.7000	17.4000
Nickel, total	ug/L	GU-3	09/15/2022		21.1000 *	17.4000
Nickel, total	ug/L	GU-3	09/30/2024		36.8000 *	17.4000
Nickel, total	ug/L	GU-3	12/08/2024		23.5000 *	17.4000
Nickel, total	ug/L	GU-3	03/24/2025		30.6000 *	17.4000
Zinc, total	ug/L	GU-4	08/30/2021		131.0000	144.0000
Zinc, total	ug/L	GU-4	03/28/2022		1140.0000 *	144.0000
Zinc, total	ug/L	GU-4	06/24/2022		61.3000	144.0000
Zinc, total	ug/L	GU-4	09/14/2022	ND	20.0000	144.0000
Zinc, total	ug/L	GU-4	03/20/2023		131.0000	144.0000
Zinc, total	ug/L	GU-4	09/12/2023		47.2000	144.0000
Zinc, total	ug/L	GU-4	03/12/2024		70.7000	144.0000
Zinc, total	ug/L	GU-4	11/25/2024		262.0000 *	144.0000
Zinc, total	ug/L	GU-4	03/24/2025		243.0000 *	144.0000
Cobalt, total	ug/L	MW98-25	03/17/2008		46.0000 *	7.0000
Cobalt, total	ug/L	MW98-25	06/04/2008		42.0000 *	7.0000
Cobalt, total	ug/L	MW98-25	07/23/2008		51.0000 *	7.0000
Cobalt, total	ug/L	MW98-25	09/12/2008		24.2000 *	7.0000
Cobalt, total	ug/L	MW98-25	12/11/2008		29.3000 *	7.0000
Cobalt, total	ug/L	MW98-25	03/04/2009		33.9000 *	7.0000
Cobalt, total	ug/L	MW98-25	09/20/2009		23.7000 *	7.0000
Cobalt, total	ug/L	MW98-25	03/26/2010		33.6000 *	7.0000
Cobalt, total	ug/L	MW98-25	09/24/2010		25.4000 *	7.0000
Cobalt, total	ug/L	MW98-25	03/30/2011		35.4000 *	7.0000
Cobalt, total	ug/L	MW98-25	09/14/2011		30.0000 *	7.0000
Cobalt, total	ug/L	MW98-25	03/07/2012		33.1000 *	7.0000
Cobalt, total	ug/L	MW98-25	09/12/2012		8.9000 *	7.0000
Cobalt, total	ug/L	MW98-25	03/20/2013		12.3000 *	7.0000
Cobalt, total	ug/L	MW98-25	09/27/2013		10.0000 *	7.0000
Cobalt, total	ug/L	MW98-25	03/13/2014		14.5000 *	7.0000
Cobalt, total	ug/L	MW98-25	09/18/2014		19.0000 *	7.0000
Cobalt, total	ug/L	MW98-25	03/17/2015		5.4000 *	7.0000
Cobalt, total	ug/L	MW98-25	09/11/2015		13.0000 *	7.0000
Cobalt, total	ug/L	MW98-25	03/16/2016		4.7000 *	7.0000
Cobalt, total	ug/L	MW98-25	09/08/2016		29.1000 *	7.0000
Cobalt, total	ug/L	MW98-25	03/18/2017		14.6000 *	7.0000
Cobalt, total	ug/L	MW98-25	09/19/2017		6.2000 *	7.0000
Cobalt, total	ug/L	MW98-25	03/08/2018		10.3000 *	7.0000
Cobalt, total	ug/L	MW98-25	09/24/2018		11.6000 *	7.0000
Cobalt, total	ug/L	MW98-25	03/25/2019		13.9000 *	7.0000
Cobalt, total	ug/L	MW98-25	09/03/2019		8.5000 *	7.0000
Cobalt, total	ug/L	MW98-25	03/23/2020		22.2000 *	7.0000
Cobalt, total	ug/L	MW98-25	09/04/2020		7.6000 *	7.0000
Cobalt, total	ug/L	MW98-25	03/09/2021		11.7000 *	7.0000
Cobalt, total	ug/L	MW98-25	09/07/2021		12.8000 *	7.0000
Cobalt, total	ug/L	MW98-25	03/28/2022		10.9000 *	7.0000
Cobalt, total	ug/L	MW98-25	09/14/2022		19.4000 *	7.0000
Cobalt, total	ug/L	MW98-25	03/20/2023		11.2000 *	7.0000
Cobalt, total	ug/L	MW98-25	09/12/2023		15.2000 *	7.0000
Cobalt, total	ug/L	MW98-25	03/12/2024		10.7000 *	7.0000
Cobalt, total	ug/L	MW98-25	09/30/2024		11.0000 *	7.0000
Cobalt, total	ug/L	MW98-25	03/24/2025		8.7000 *	7.0000
Nickel, total	ug/L	MW98-25	03/17/2008		111.0000 *	17.4000
Nickel, total	ug/L	MW98-25	06/04/2008		86.0000 *	17.4000
Nickel, total	ug/L	MW98-25	07/23/2008		110.0000 *	17.4000
Nickel, total	ug/L	MW98-25	09/12/2008		81.1000 *	17.4000
Nickel, total	ug/L	MW98-25	12/11/2008		60.7000 *	17.4000
Nickel, total	ug/L	MW98-25	03/04/2009		69.6000 *	17.4000
Nickel, total	ug/L	MW98-25	09/20/2009		53.1000 *	17.4000
Nickel, total	ug/L	MW98-25	03/26/2010		84.0000 *	17.4000
Nickel, total	ug/L	MW98-25	09/24/2010		56.5000 *	17.4000
Nickel, total	ug/L	MW98-25	03/30/2011		85.8000 *	17.4000
Nickel, total	ug/L	MW98-25	09/14/2011		70.5000 *	17.4000
Nickel, total	ug/L	MW98-25	03/07/2012		75.7000 *	17.4000
Nickel, total	ug/L	MW98-25	09/12/2012		46.5000 *	17.4000
Nickel, total	ug/L	MW98-25	03/20/2013		41.5000 *	17.4000
Nickel, total	ug/L	MW98-25	09/27/2013		55.2000 *	17.4000
Nickel, total	ug/L	MW98-25	03/13/2014		51.0000 *	17.4000
Nickel, total	ug/L	MW98-25	09/18/2014		48.1000 *	17.4000

* - Significantly increased over background.

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

*** - Manual exclusion.

ND = Not Detected, Result = detection limit.

Table 8

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

Constituent	Units	Well	Date		Result		Pred. Limit
Nickel, total	ug/L	MW98-25	03/17/2015		41.6000	*	17.4000
Nickel, total	ug/L	MW98-25	09/11/2015		36.2000	*	17.4000
Nickel, total	ug/L	MW98-25	03/16/2016		37.9000	*	17.4000
Nickel, total	ug/L	MW98-25	09/08/2016		81.7000	*	17.4000
Nickel, total	ug/L	MW98-25	03/18/2017		34.3000	*	17.4000
Nickel, total	ug/L	MW98-25	09/19/2017		17.0000		17.4000
Nickel, total	ug/L	MW98-25	03/08/2018		20.1000	*	17.4000
Nickel, total	ug/L	MW98-25	09/24/2018		24.6000	*	17.4000
Nickel, total	ug/L	MW98-25	03/25/2019		21.2000	*	17.4000
Nickel, total	ug/L	MW98-25	09/03/2019		9.0000		17.4000
Nickel, total	ug/L	MW98-25	03/23/2020		29.9000	*	17.4000
Nickel, total	ug/L	MW98-25	09/04/2020		10.5000		17.4000
Nickel, total	ug/L	MW98-25	03/09/2021		16.7000		17.4000
Nickel, total	ug/L	MW98-25	09/07/2021		20.4000	*	17.4000
Nickel, total	ug/L	MW98-25	03/28/2022		21.9000	*	17.4000
Nickel, total	ug/L	MW98-25	09/14/2022		24.3000	*	17.4000
Nickel, total	ug/L	MW98-25	03/20/2023		23.4000	*	17.4000
Nickel, total	ug/L	MW98-25	09/12/2023		35.7000	*	17.4000
Nickel, total	ug/L	MW98-25	03/12/2024		23.6000	*	17.4000
Nickel, total	ug/L	MW98-25	09/30/2024		26.5000	*	17.4000
Nickel, total	ug/L	MW98-25	03/24/2025		19.2000	*	17.4000

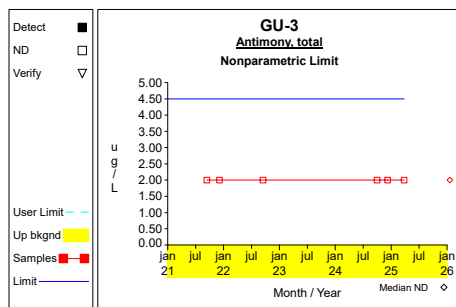
* - Significantly increased over background.

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

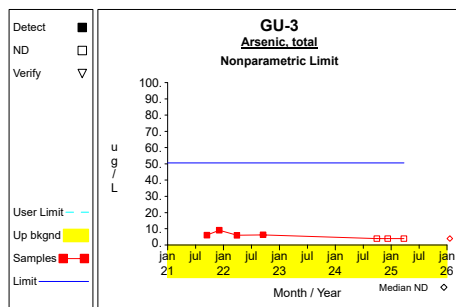
*** - Manual exclusion.

ND = Not Detected, Result = detection limit.

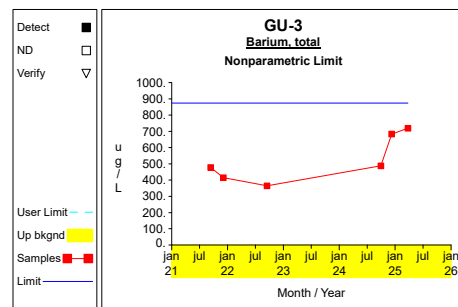
Up vs. Down Prediction Limits



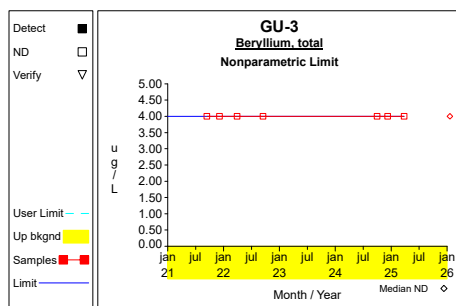
Graph 1



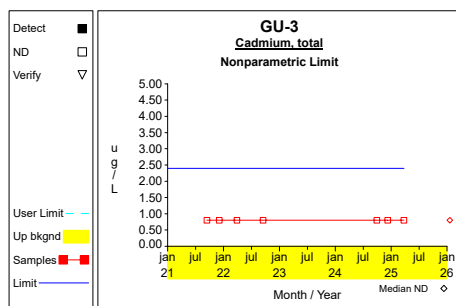
Graph 2



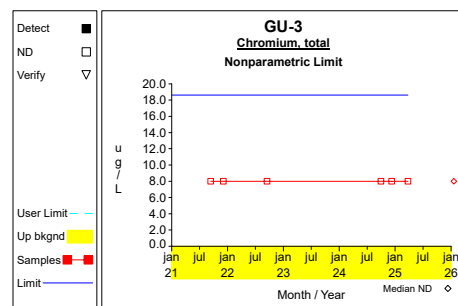
Graph 3



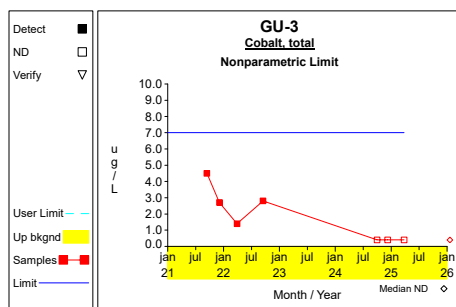
Graph 4



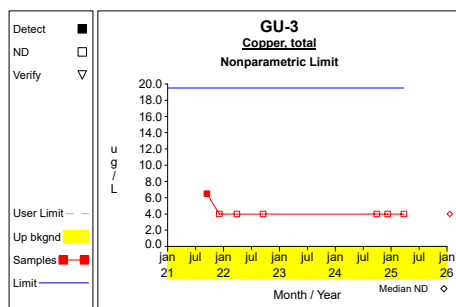
Graph 5



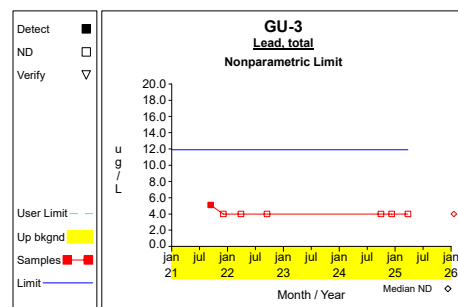
Graph 6



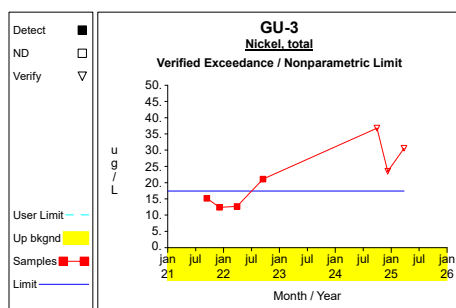
Graph 7



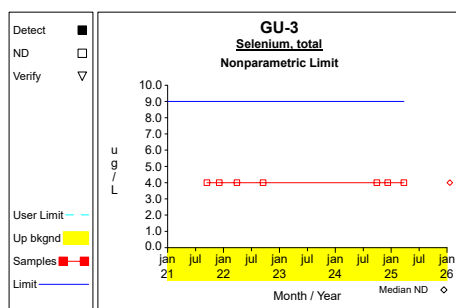
Graph 8



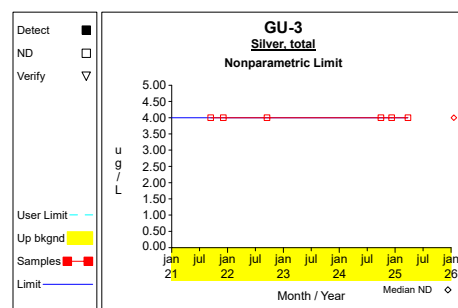
Graph 9



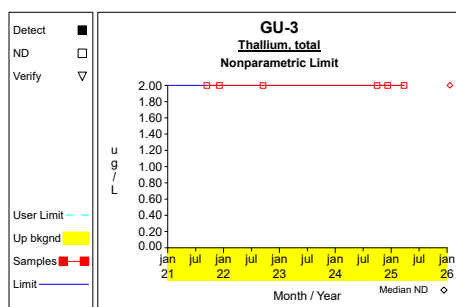
Graph 10



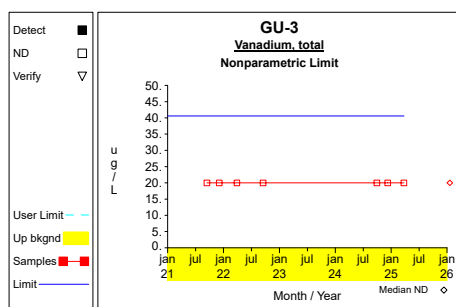
Graph 11



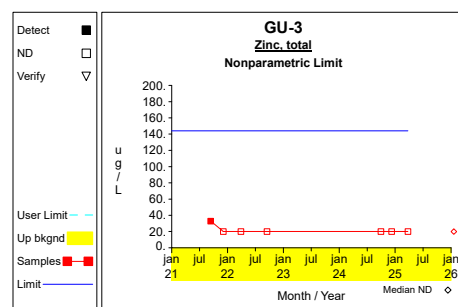
Graph 12



Graph 13

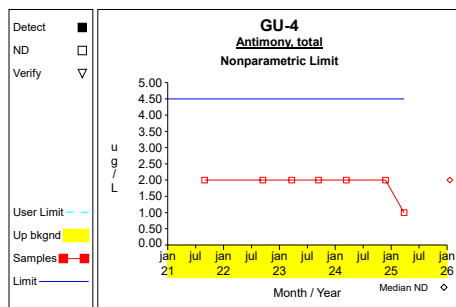


Graph 14

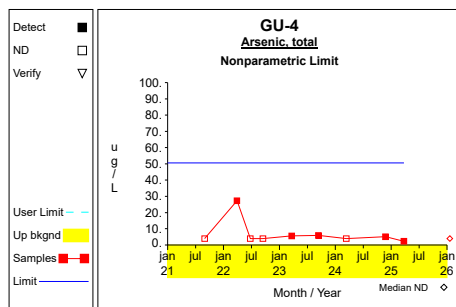


Graph 15

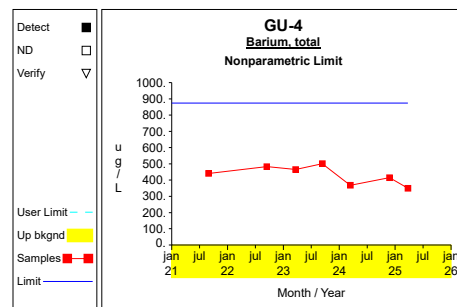
Up vs. Down Prediction Limits



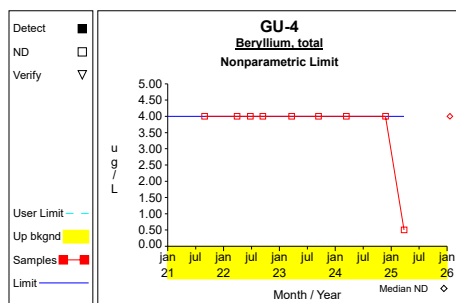
Graph 16



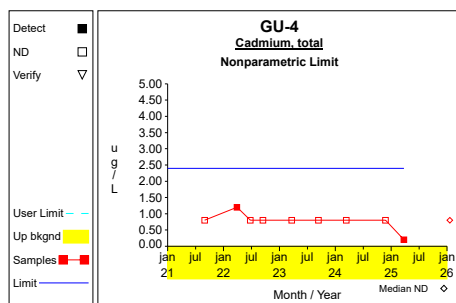
Graph 17



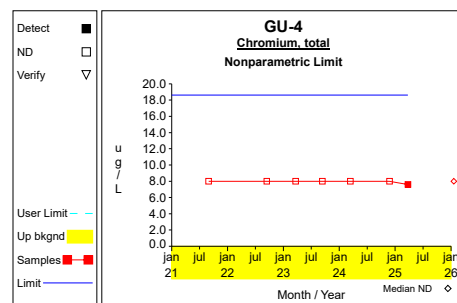
Graph 18



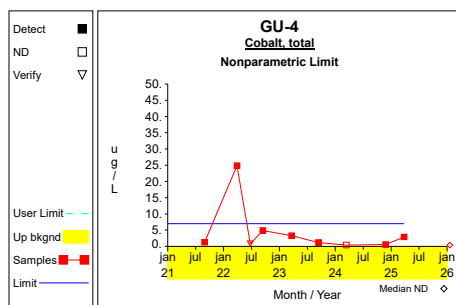
Graph 19



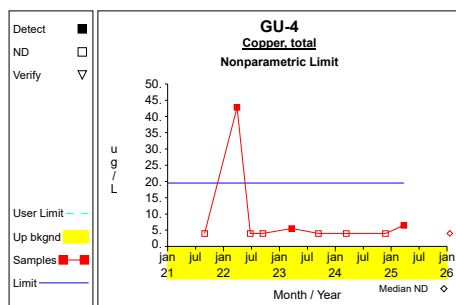
Graph 20



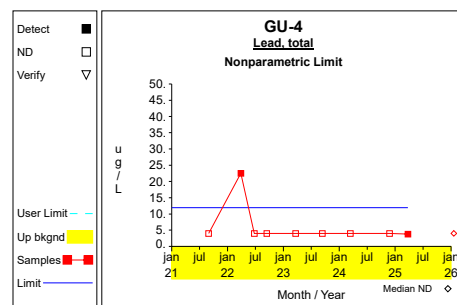
Graph 21



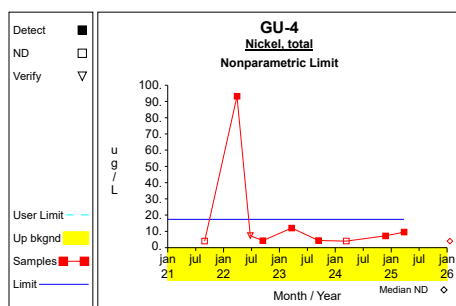
Graph 22



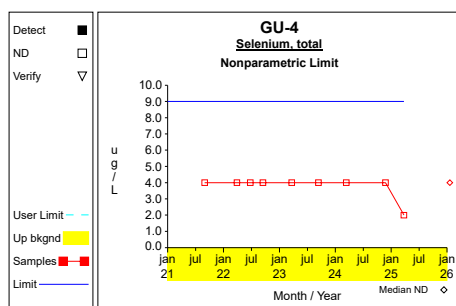
Graph 23



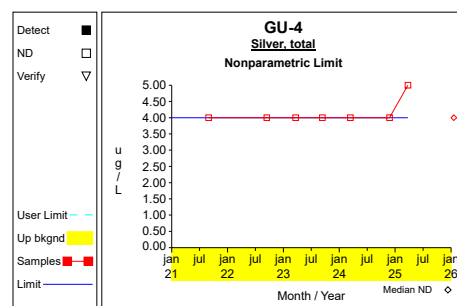
Graph 24



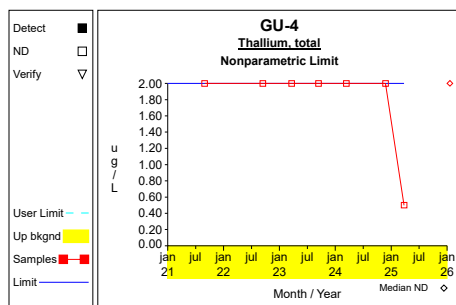
Graph 25



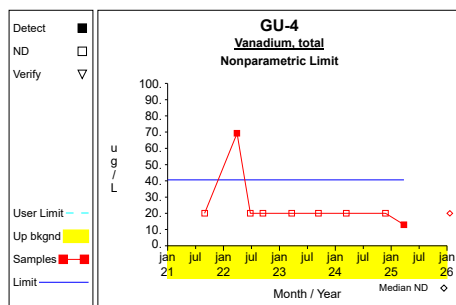
Graph 26



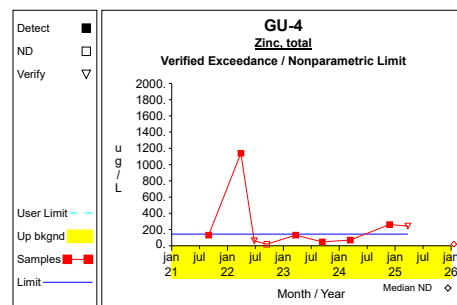
Graph 27



Graph 28

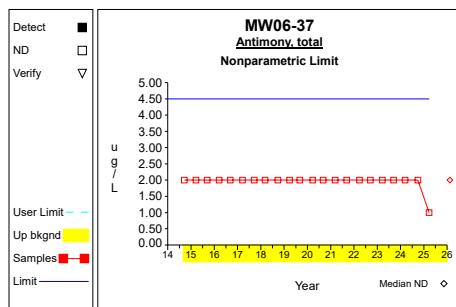


Graph 29

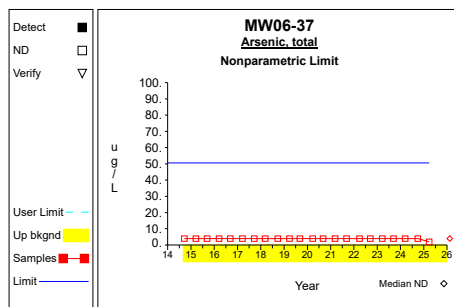


Graph 30

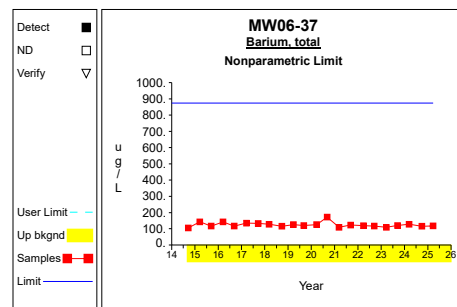
Up vs. Down Prediction Limits



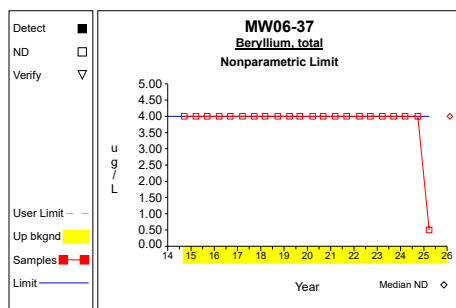
Graph 31



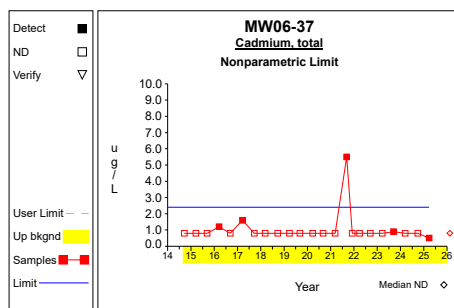
Graph 32



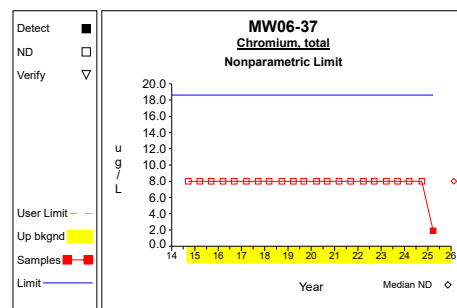
Graph 33



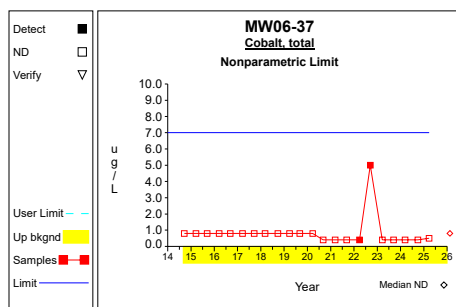
Graph 34



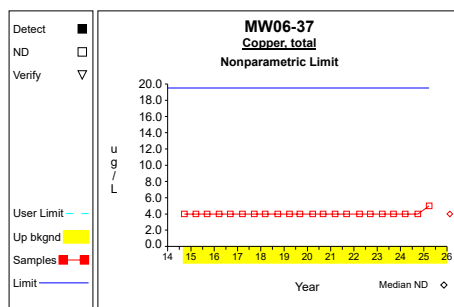
Graph 35



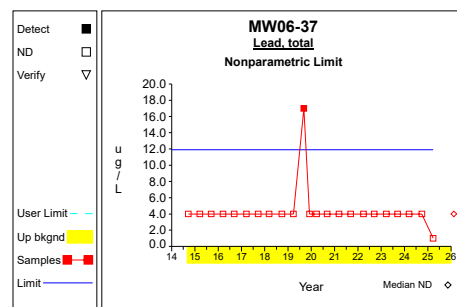
Graph 36



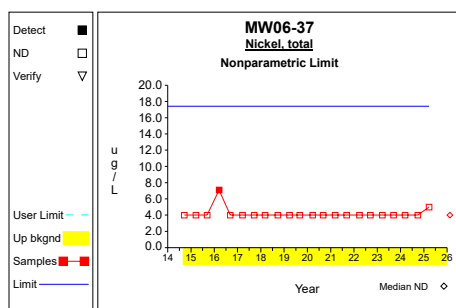
Graph 37



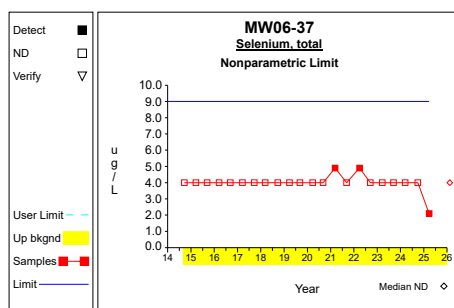
Graph 38



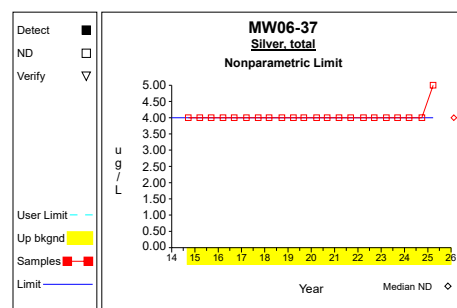
Graph 39



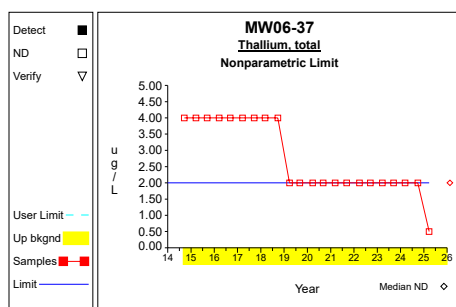
Graph 40



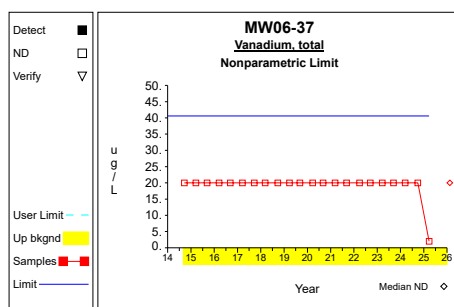
Graph 41



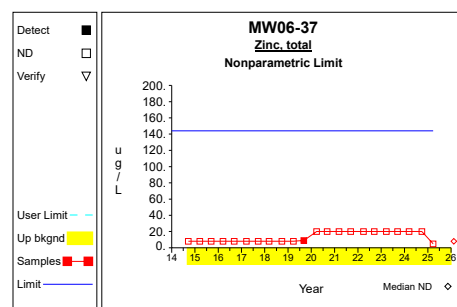
Graph 42



Graph 43

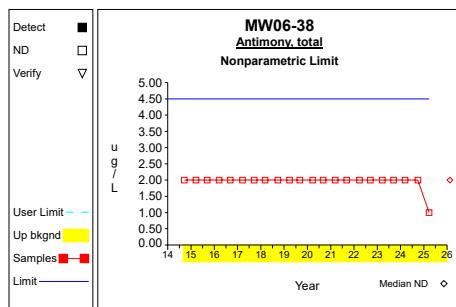


Graph 44

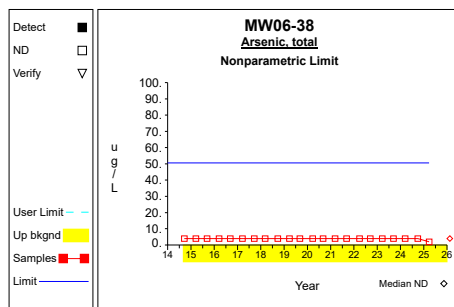


Graph 45

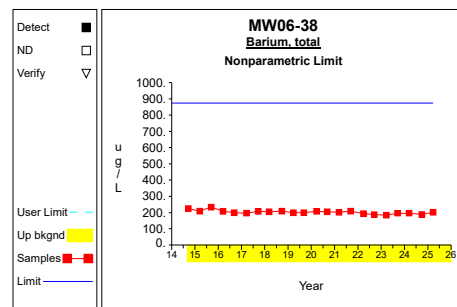
Up vs. Down Prediction Limits



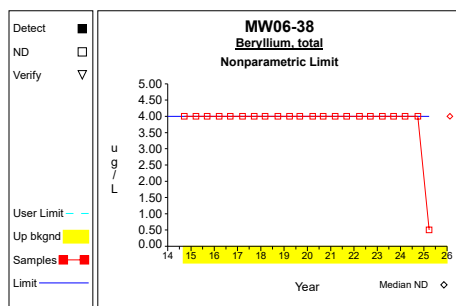
Graph 46



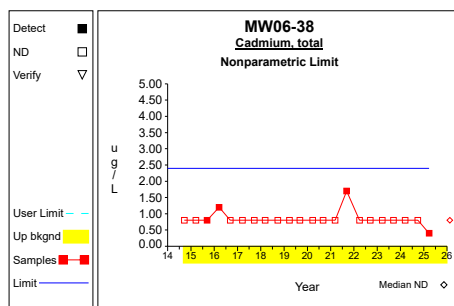
Graph 47



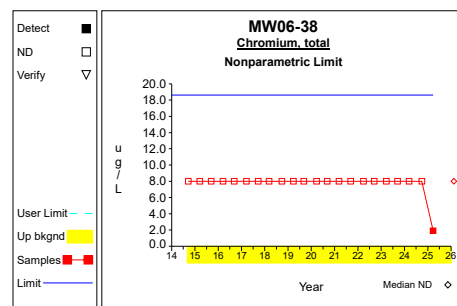
Graph 48



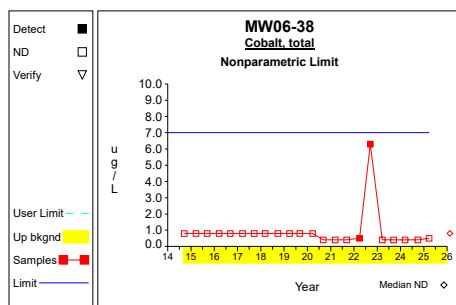
Graph 49



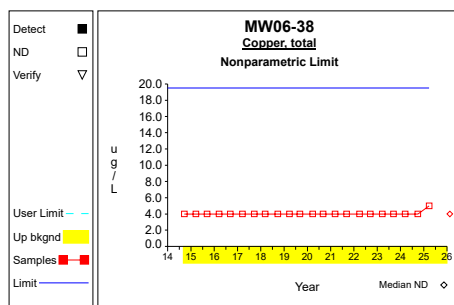
Graph 50



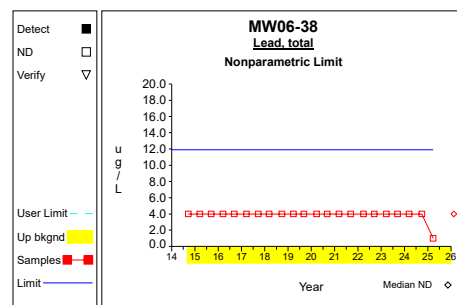
Graph 51



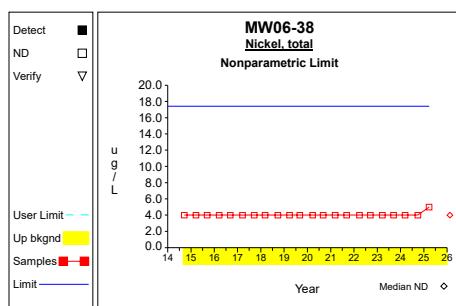
Graph 52



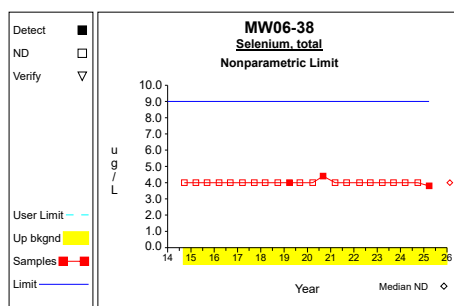
Graph 53



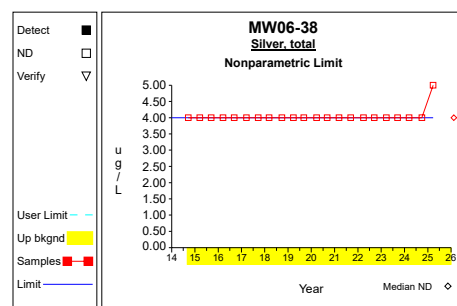
Graph 54



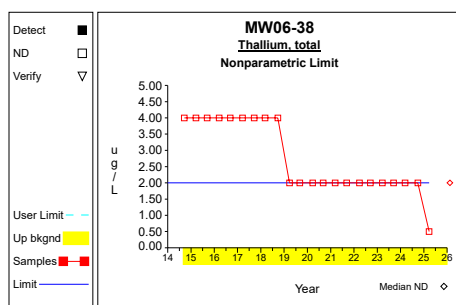
Graph 55



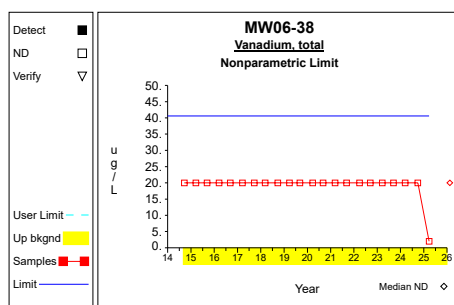
Graph 56



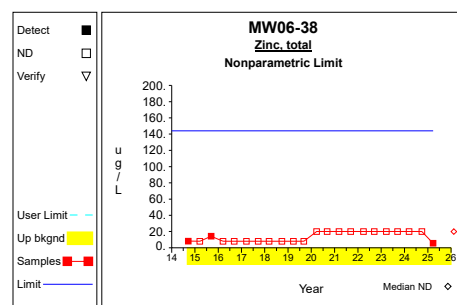
Graph 57



Graph 58

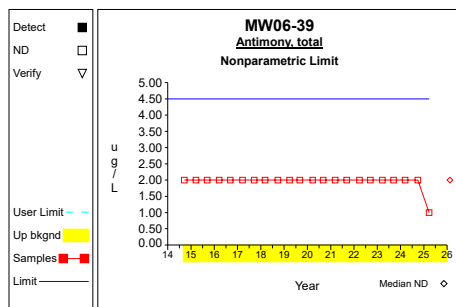


Graph 59

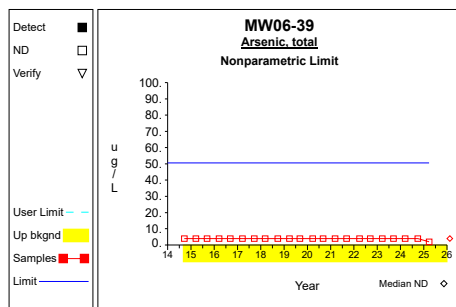


Graph 60

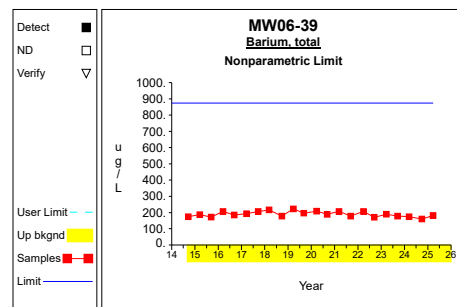
Up vs. Down Prediction Limits



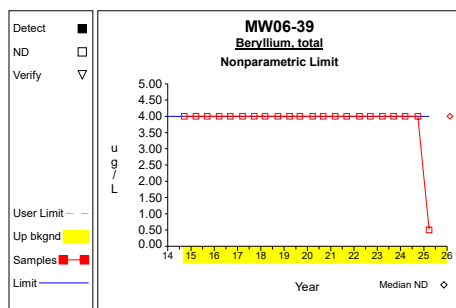
Graph 61



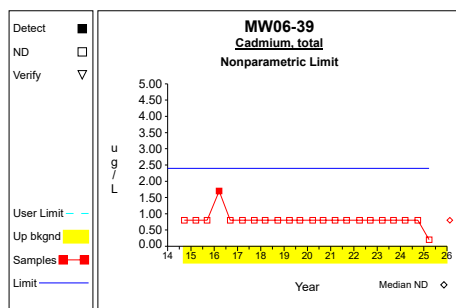
Graph 62



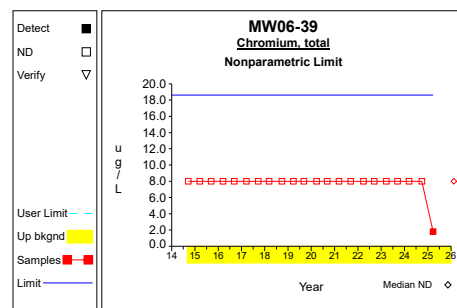
Graph 63



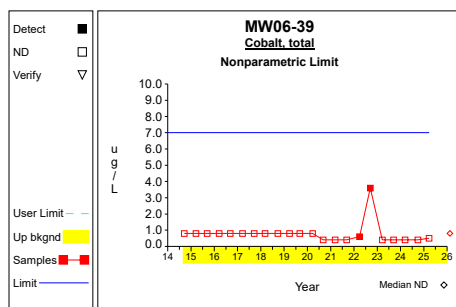
Graph 64



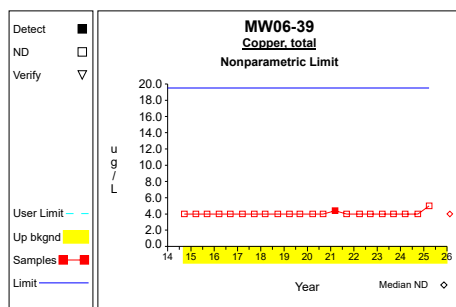
Graph 65



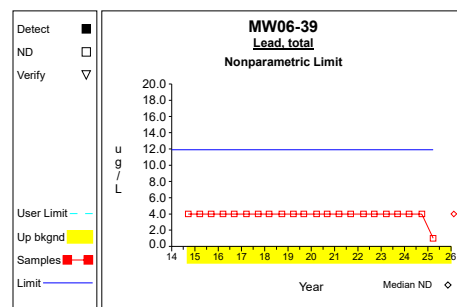
Graph 66



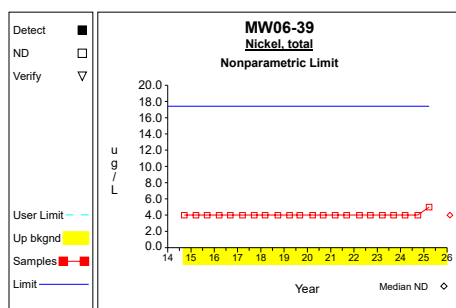
Graph 67



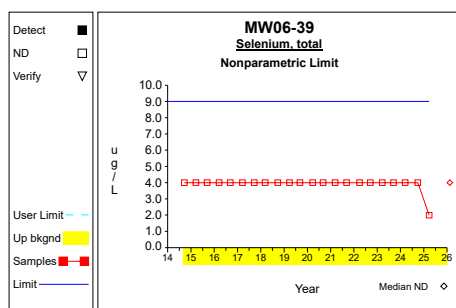
Graph 68



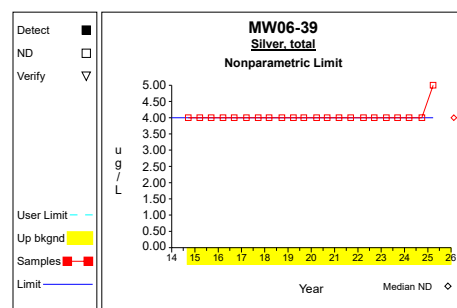
Graph 69



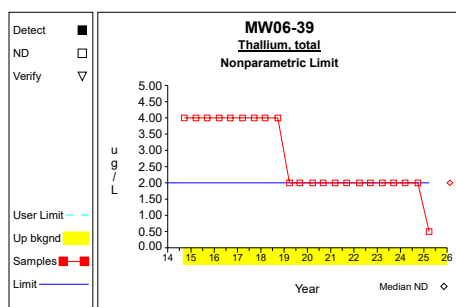
Graph 70



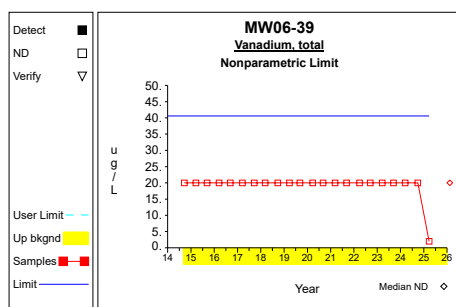
Graph 71



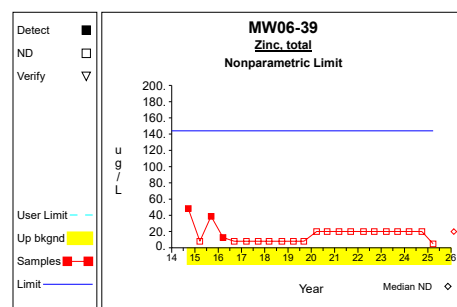
Graph 72



Graph 73

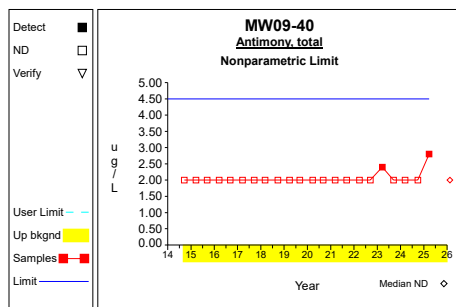


Graph 74

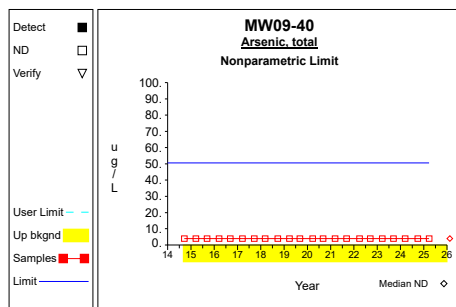


Graph 75

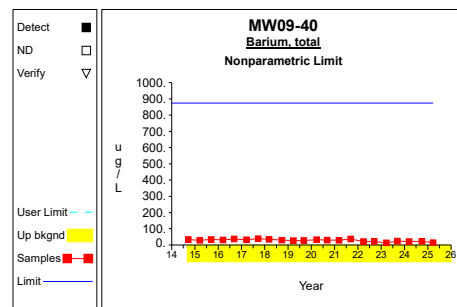
Up vs. Down Prediction Limits



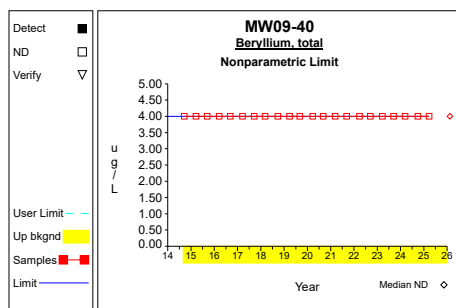
Graph 76



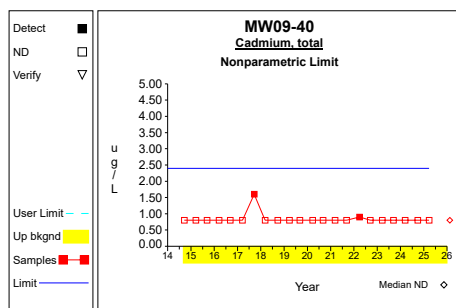
Graph 77



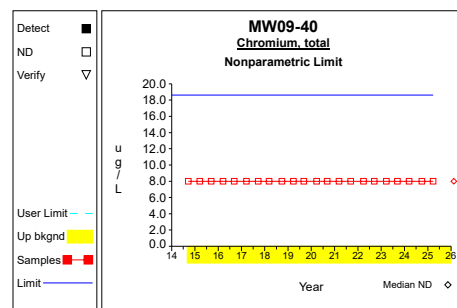
Graph 78



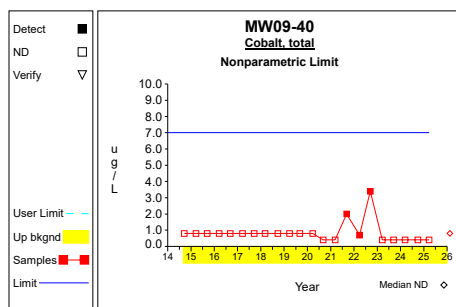
Graph 79



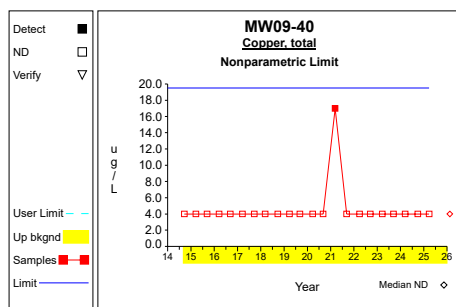
Graph 80



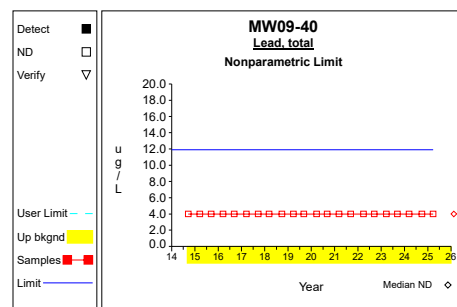
Graph 81



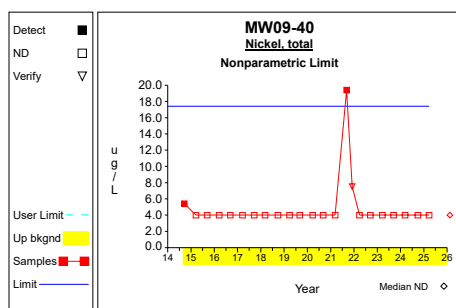
Graph 82



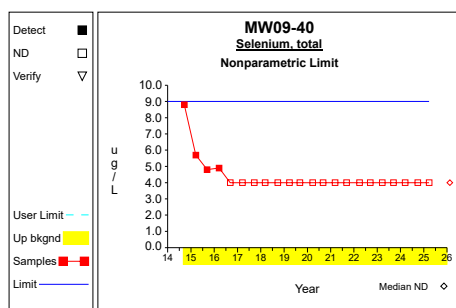
Graph 83



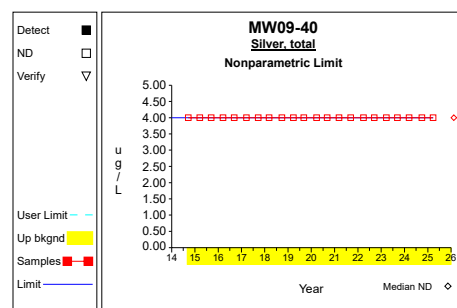
Graph 84



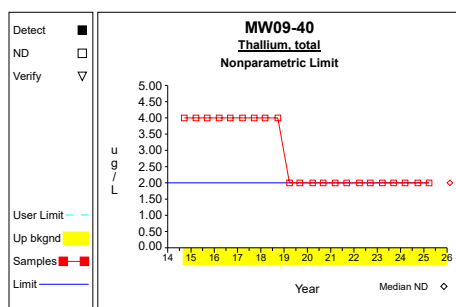
Graph 85



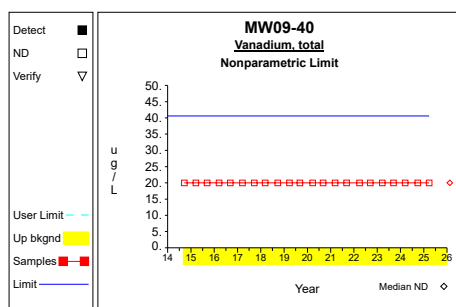
Graph 86



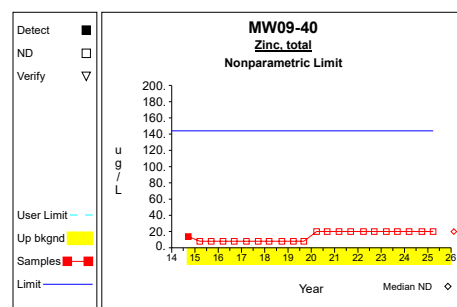
Graph 87



Graph 88

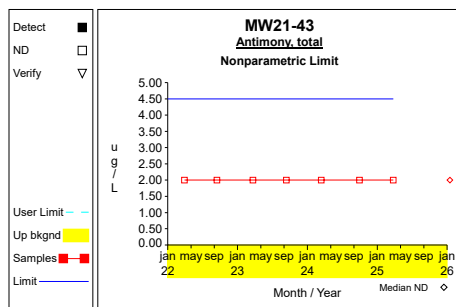


Graph 89

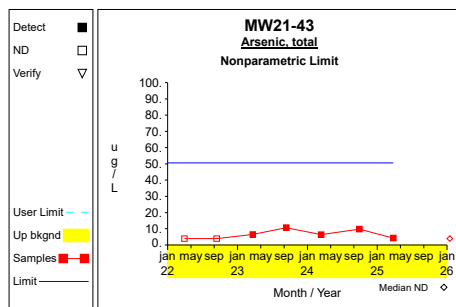


Graph 90

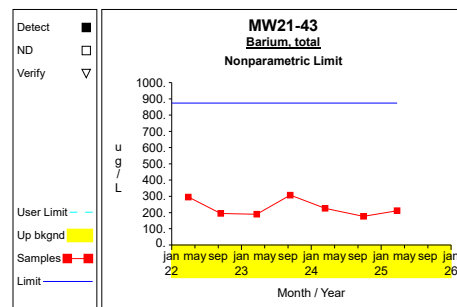
Up vs. Down Prediction Limits



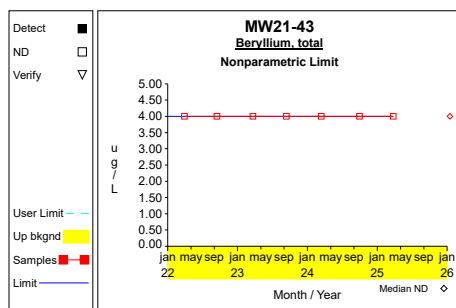
Graph 91



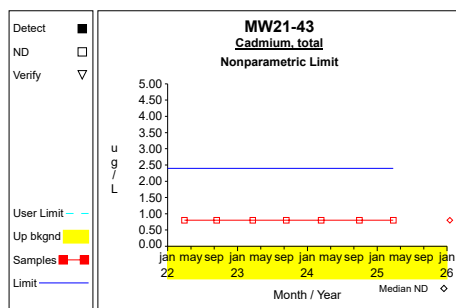
Graph 92



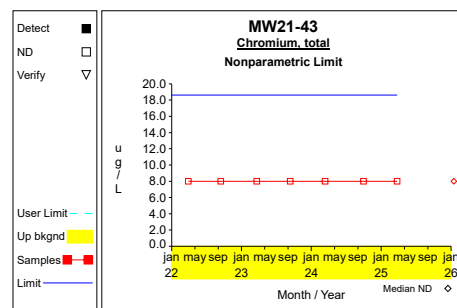
Graph 93



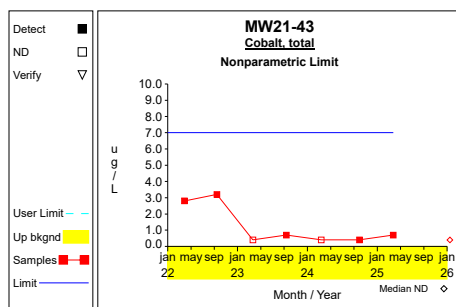
Graph 94



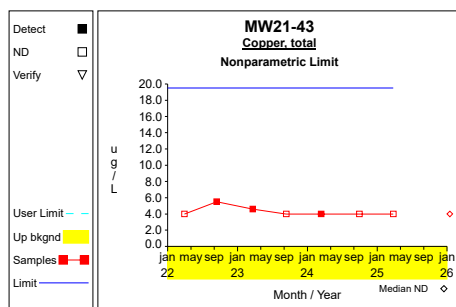
Graph 95



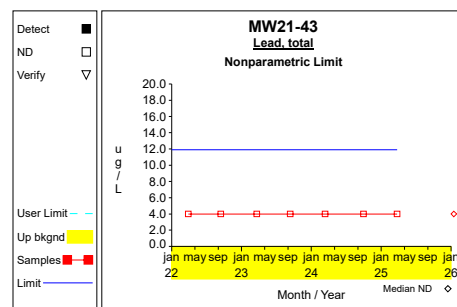
Graph 96



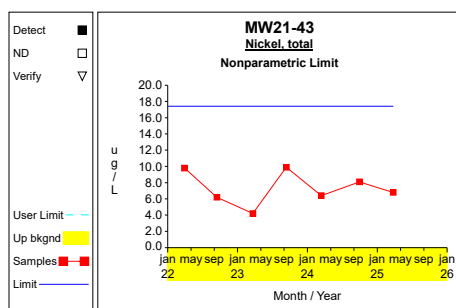
Graph 97



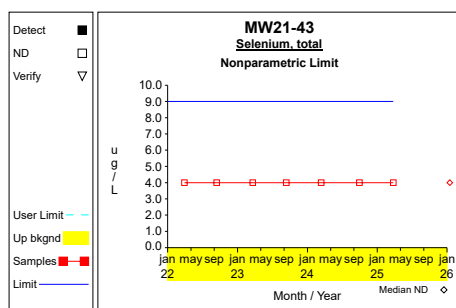
Graph 98



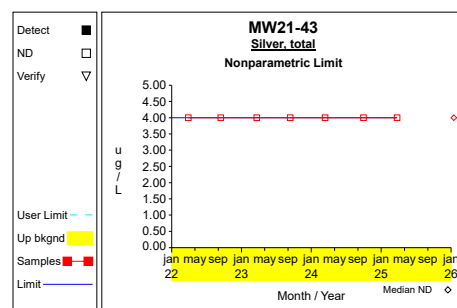
Graph 99



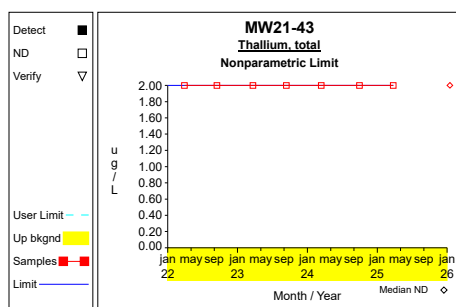
Graph 100



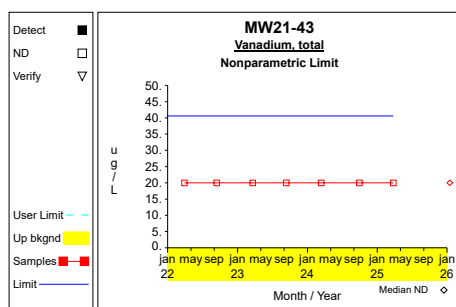
Graph 101



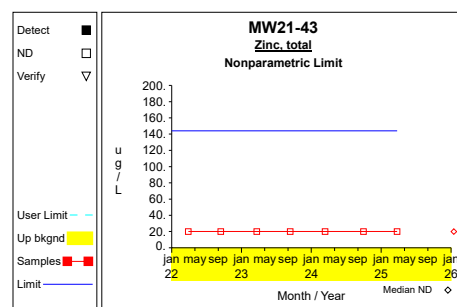
Graph 102



Graph 103

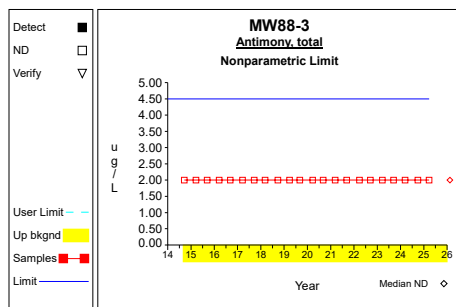


Graph 104

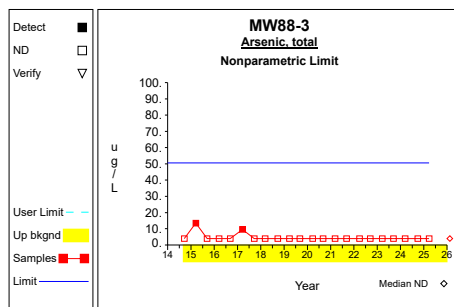


Graph 105

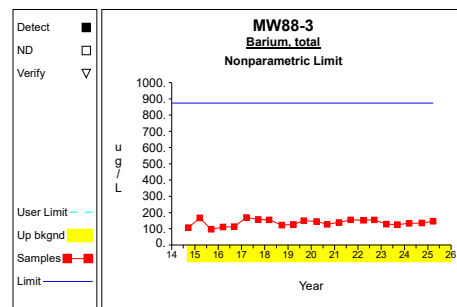
Up vs. Down Prediction Limits



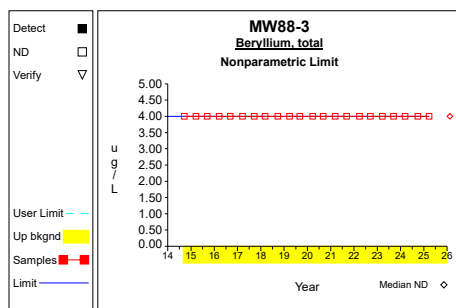
Graph 106



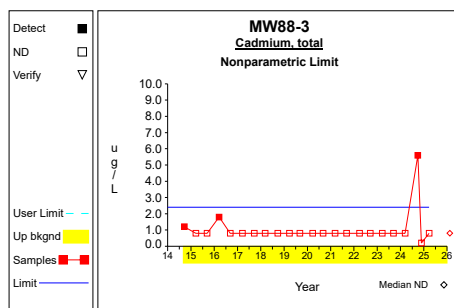
Graph 107



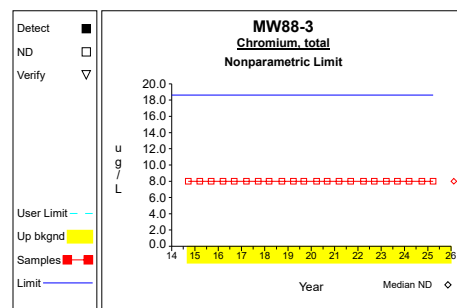
Graph 108



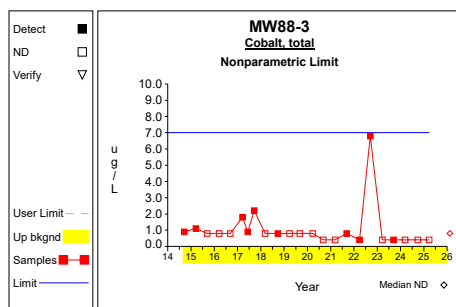
Graph 109



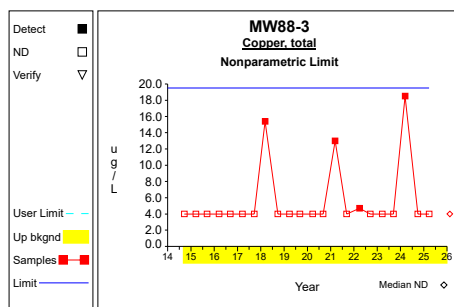
Graph 110



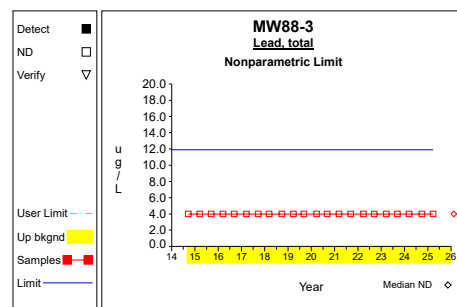
Graph 111



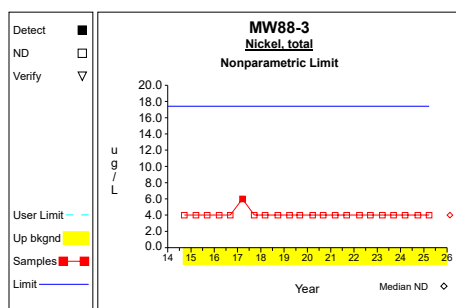
Graph 112



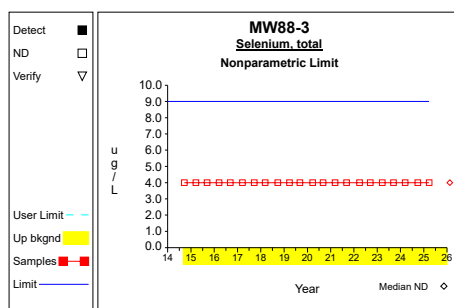
Graph 113



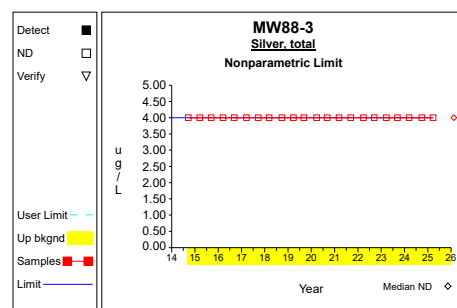
Graph 114



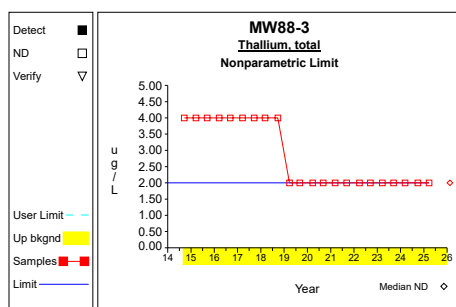
Graph 115



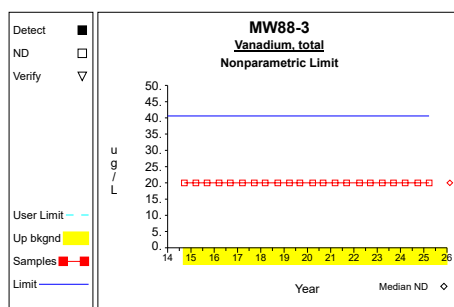
Graph 116



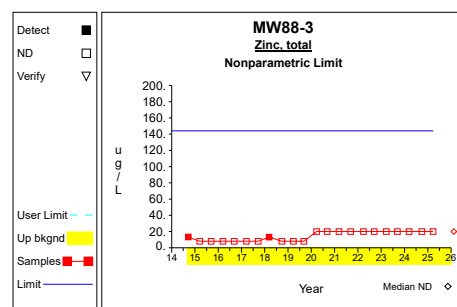
Graph 117



Graph 118

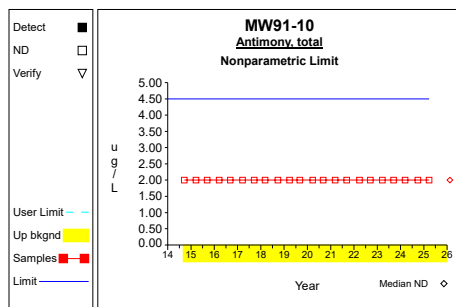


Graph 119

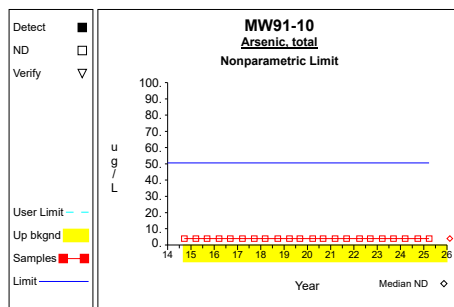


Graph 120

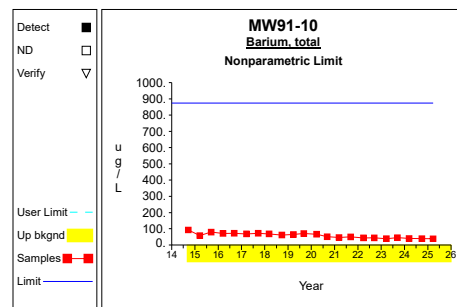
Up vs. Down Prediction Limits



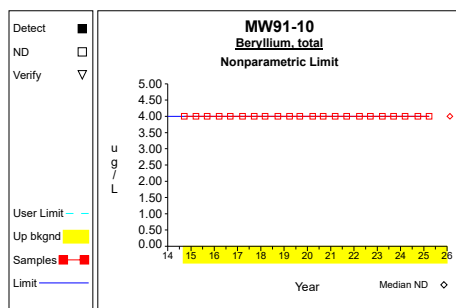
Graph 121



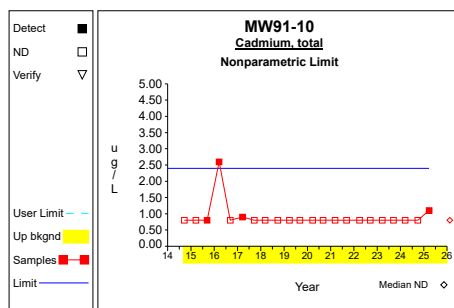
Graph 122



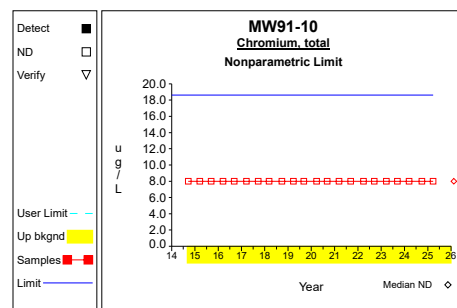
Graph 123



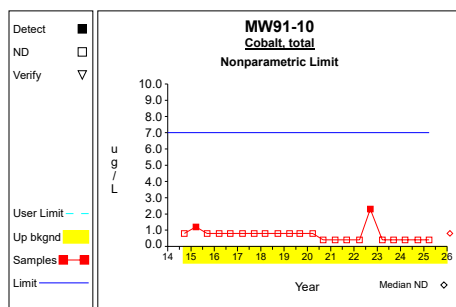
Graph 124



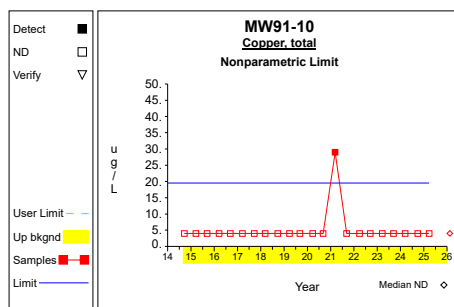
Graph 125



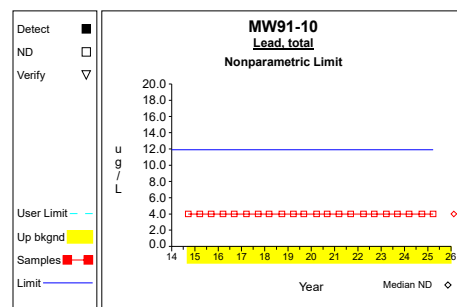
Graph 126



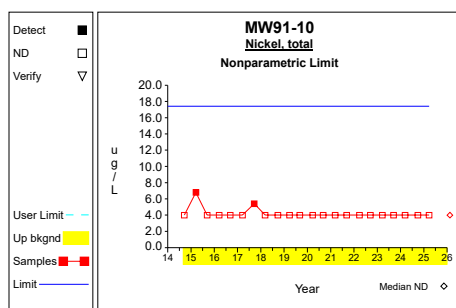
Graph 127



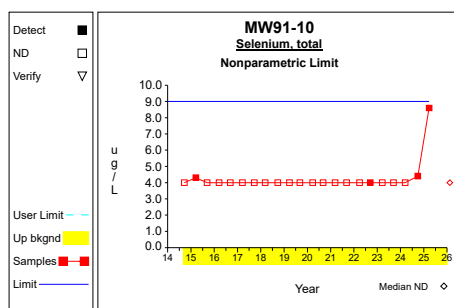
Graph 128



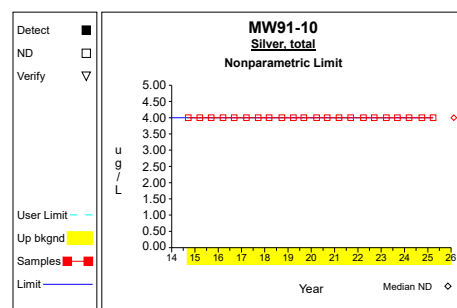
Graph 129



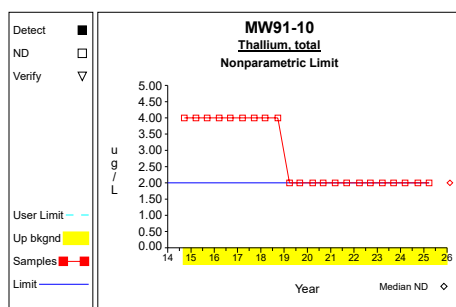
Graph 130



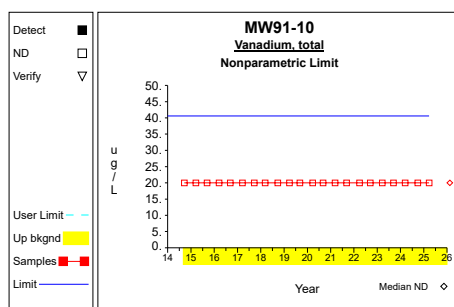
Graph 131



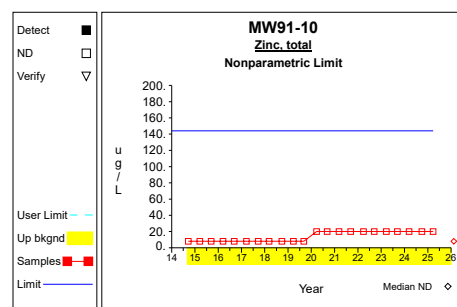
Graph 132



Graph 133

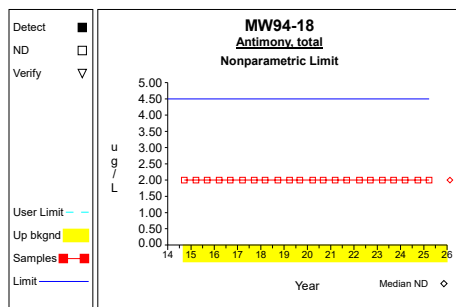


Graph 134

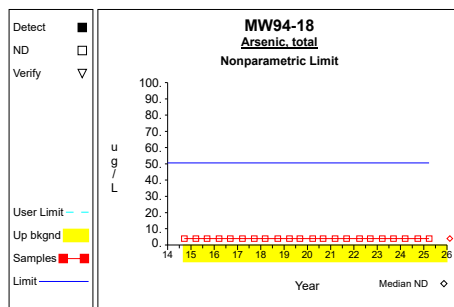


Graph 135

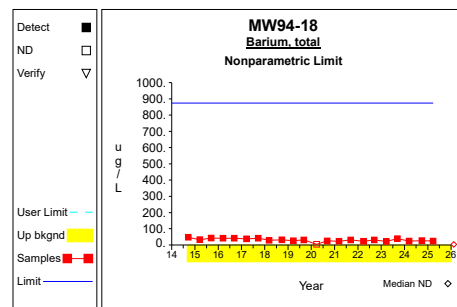
Up vs. Down Prediction Limits



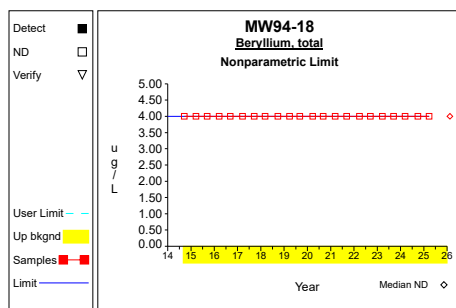
Graph 136



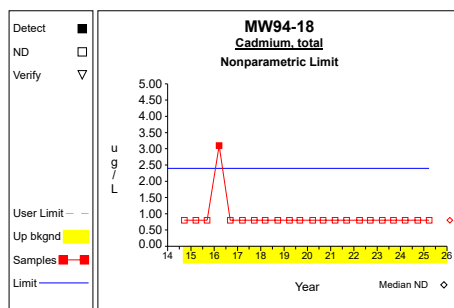
Graph 137



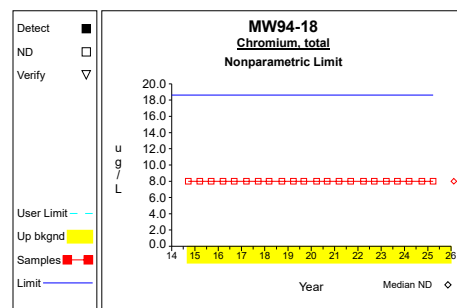
Graph 138



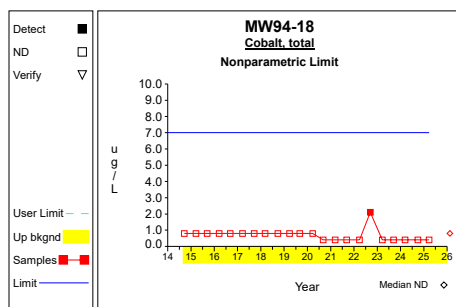
Graph 139



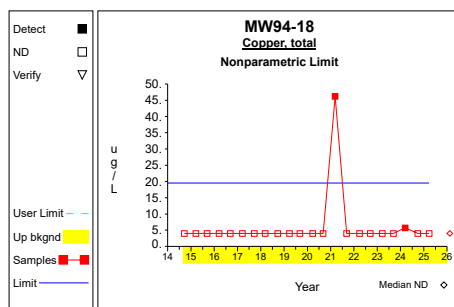
Graph 140



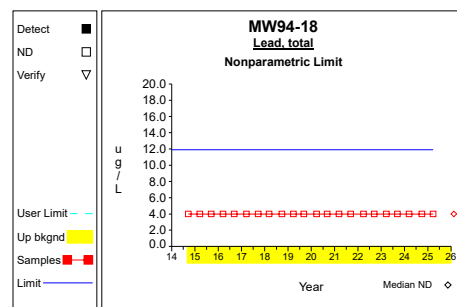
Graph 141



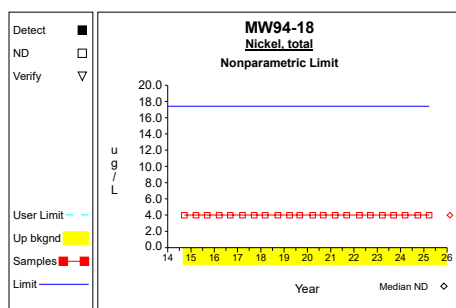
Graph 142



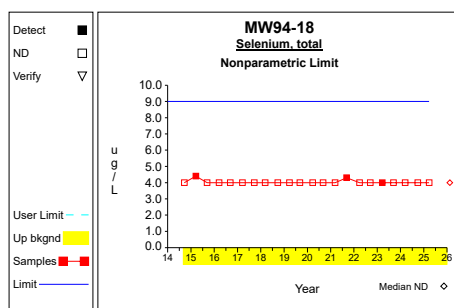
Graph 143



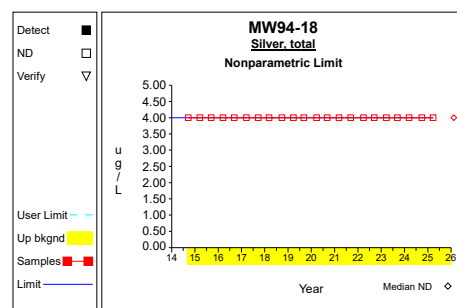
Graph 144



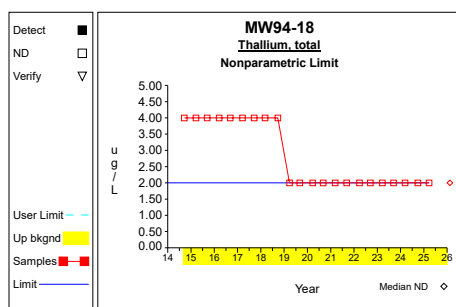
Graph 145



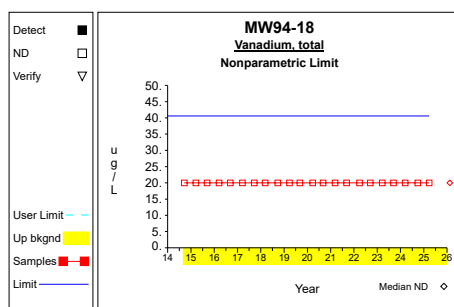
Graph 146



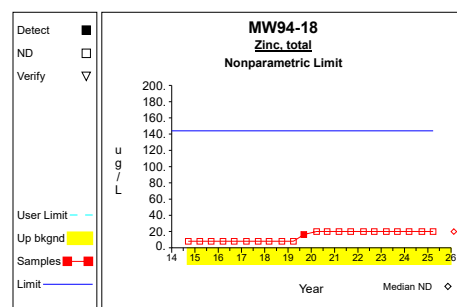
Graph 147



Graph 148

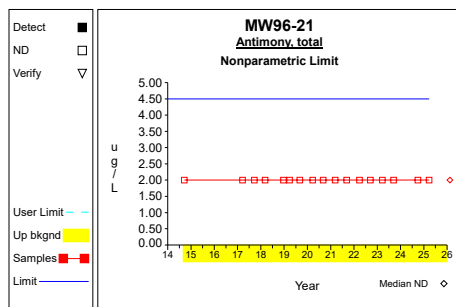


Graph 149

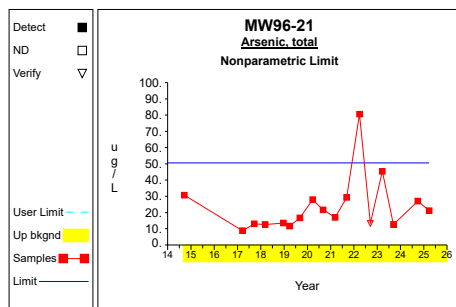


Graph 150

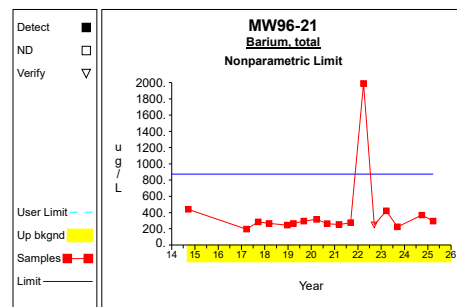
Up vs. Down Prediction Limits



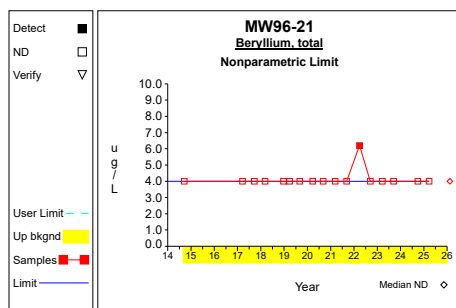
Graph 151



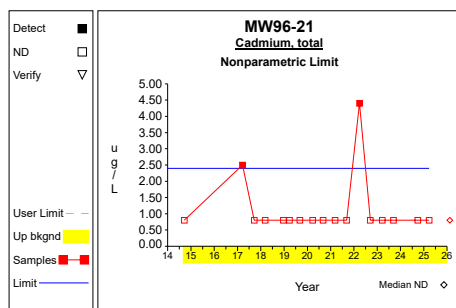
Graph 152



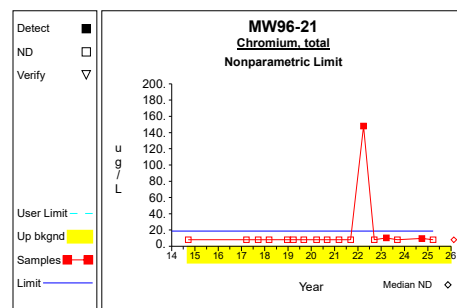
Graph 153



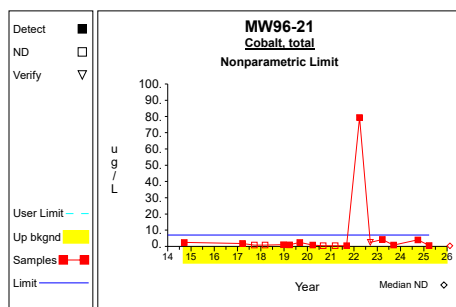
Graph 154



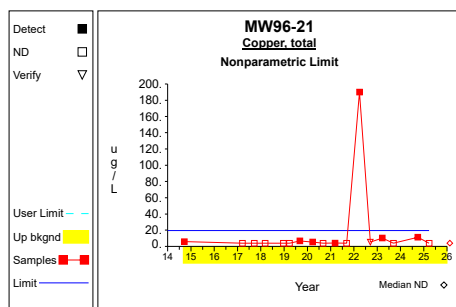
Graph 155



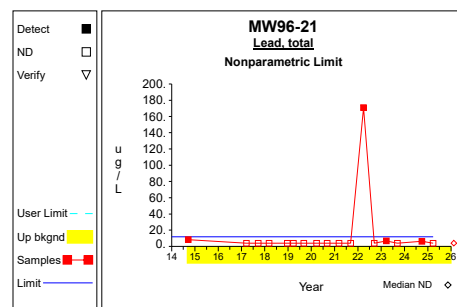
Graph 156



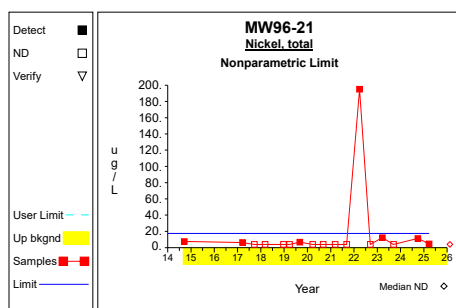
Graph 157



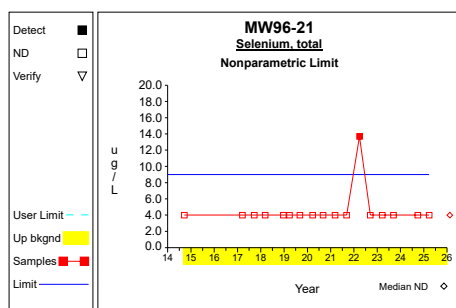
Graph 158



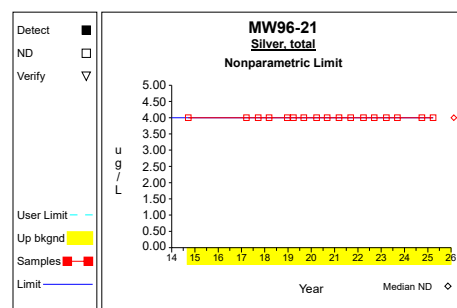
Graph 159



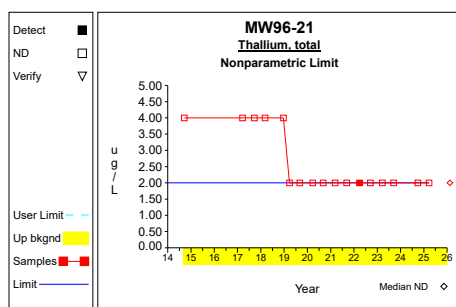
Graph 160



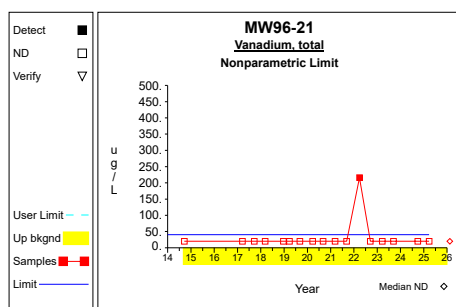
Graph 161



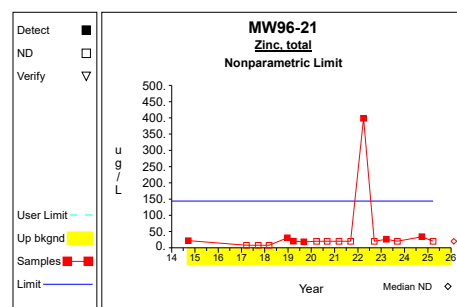
Graph 162



Graph 163

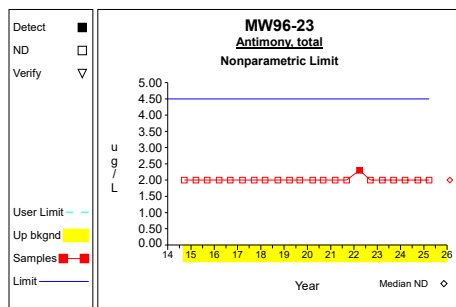


Graph 164

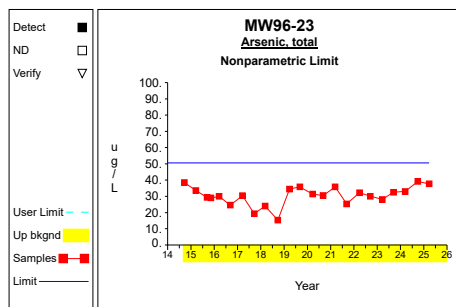


Graph 165

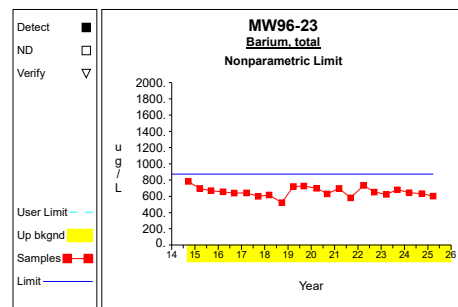
Up vs. Down Prediction Limits



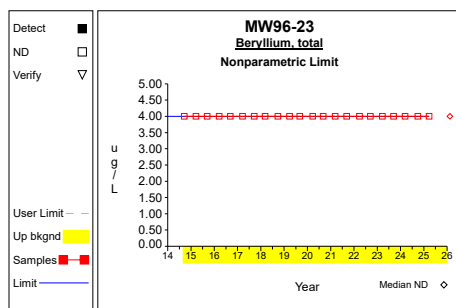
Graph 166



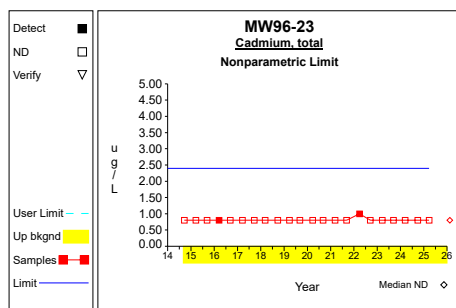
Graph 167



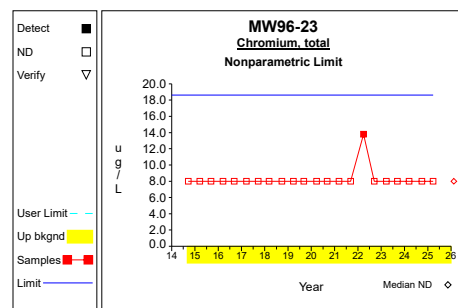
Graph 168



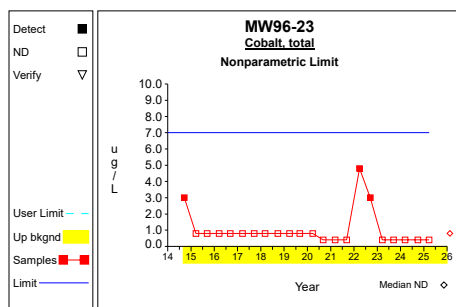
Graph 169



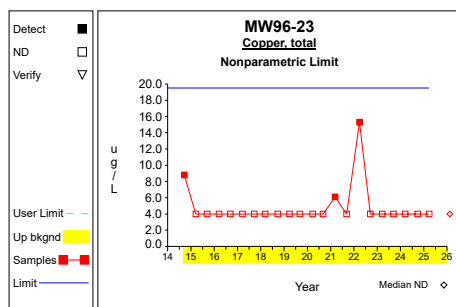
Graph 170



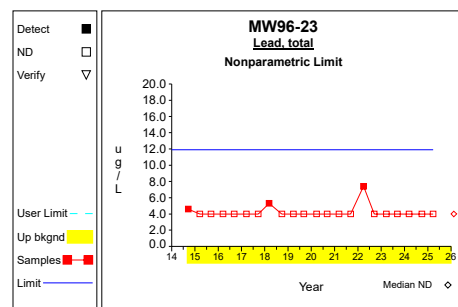
Graph 171



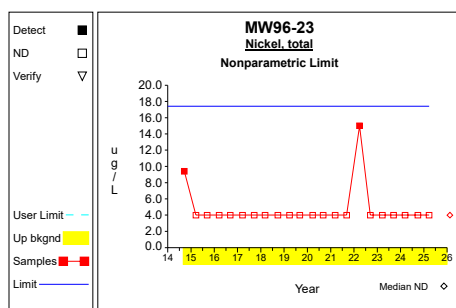
Graph 172



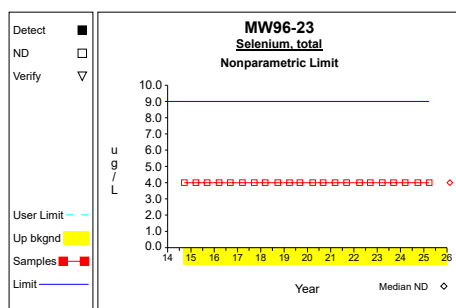
Graph 173



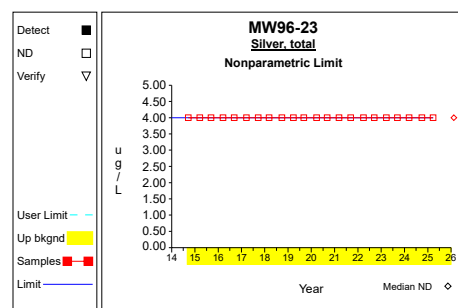
Graph 174



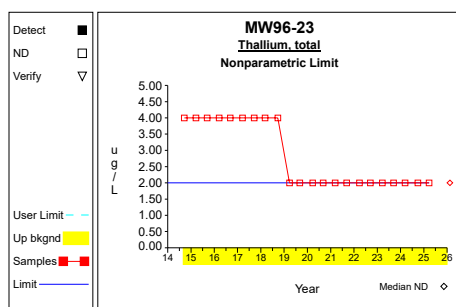
Graph 175



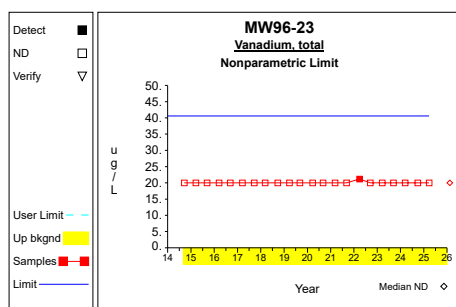
Graph 176



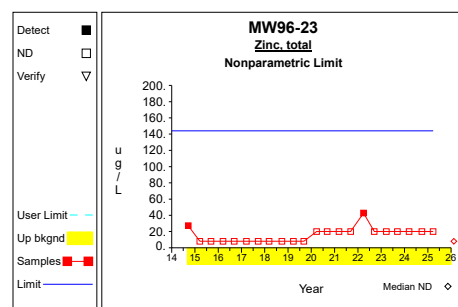
Graph 177



Graph 178

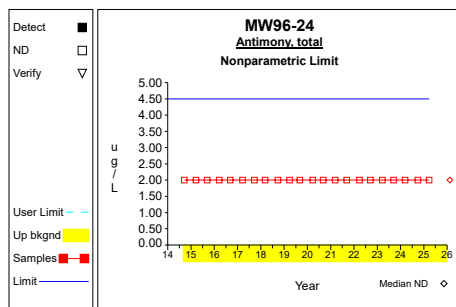


Graph 179

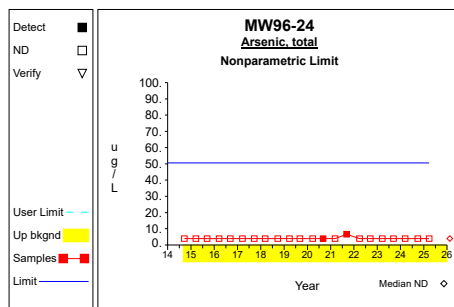


Graph 180

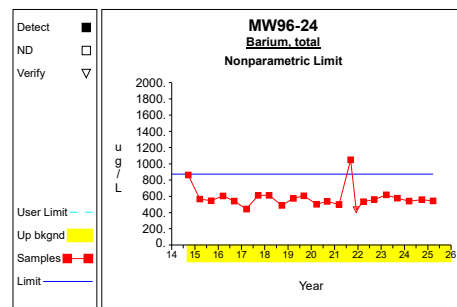
Up vs. Down Prediction Limits



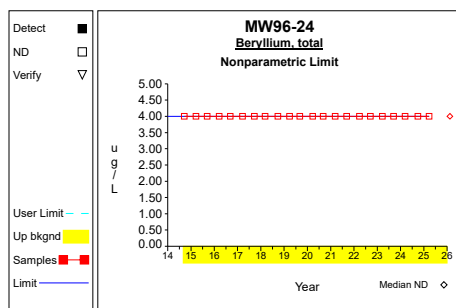
Graph 181



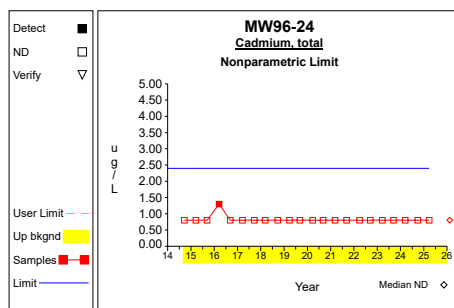
Graph 182



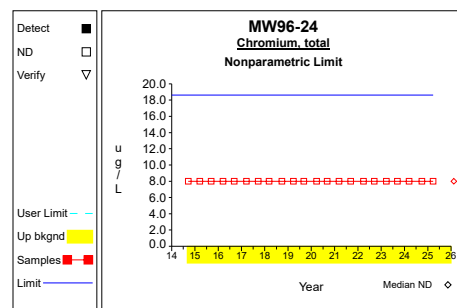
Graph 183



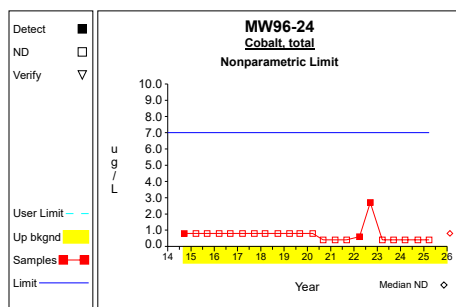
Graph 184



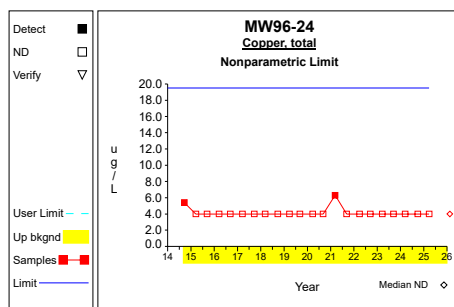
Graph 185



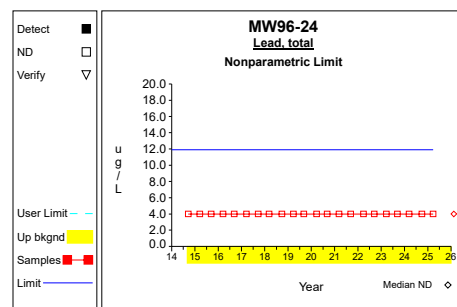
Graph 186



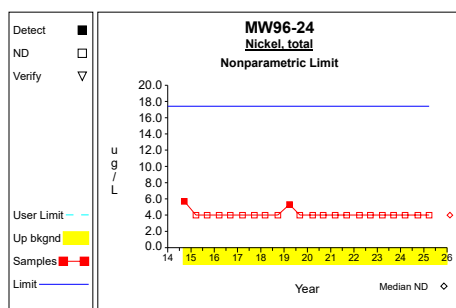
Graph 187



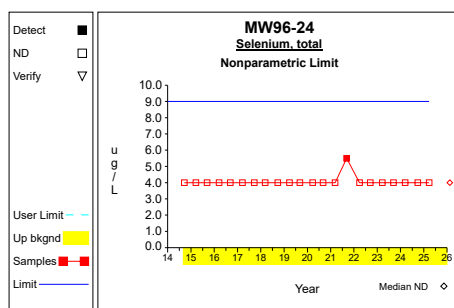
Graph 188



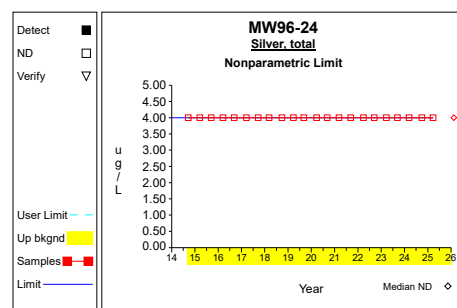
Graph 189



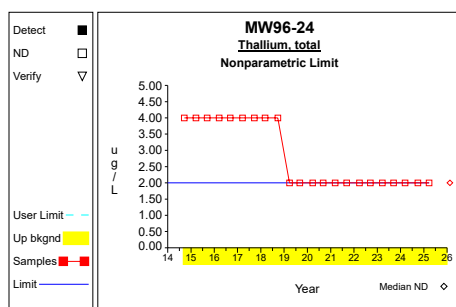
Graph 190



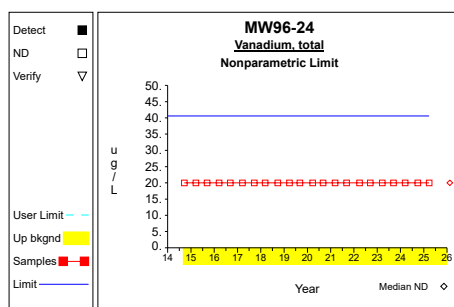
Graph 191



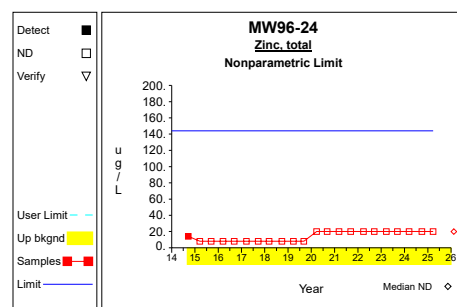
Graph 192



Graph 193

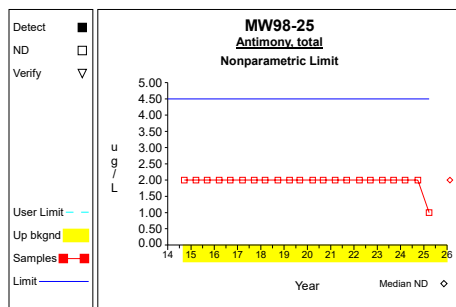


Graph 194

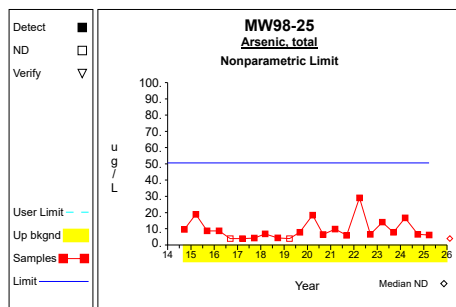


Graph 195

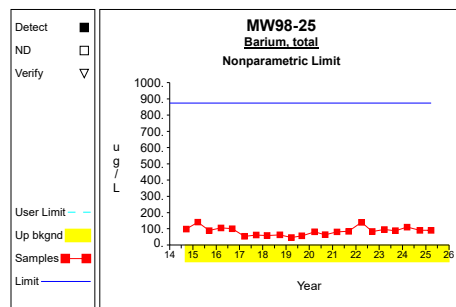
Up vs. Down Prediction Limits



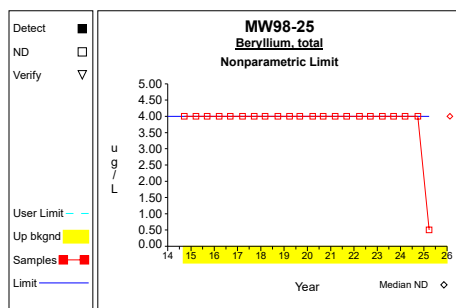
Graph 196



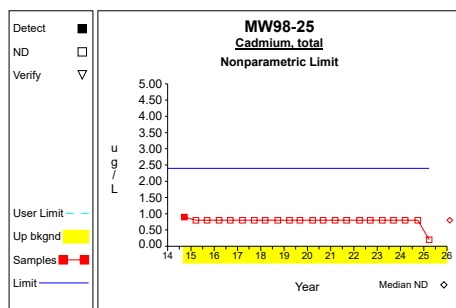
Graph 197



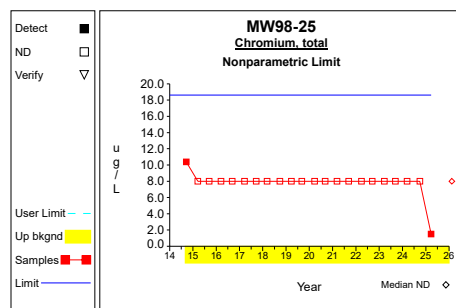
Graph 198



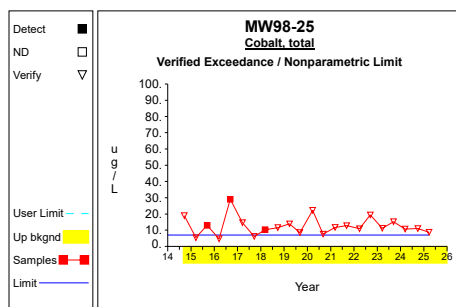
Graph 199



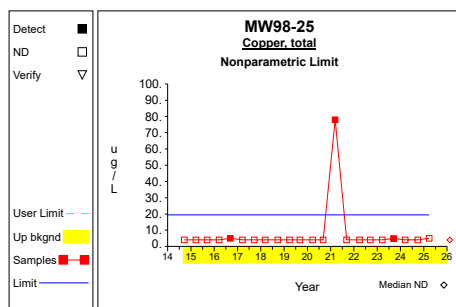
Graph 200



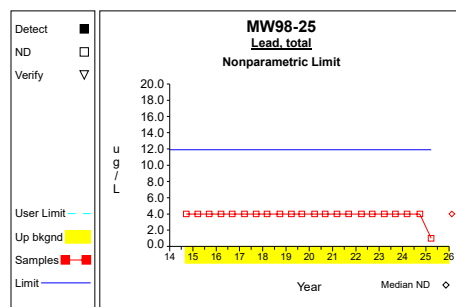
Graph 201



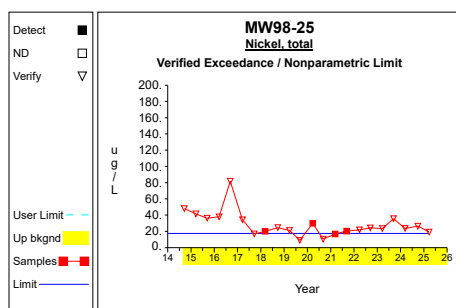
Graph 202



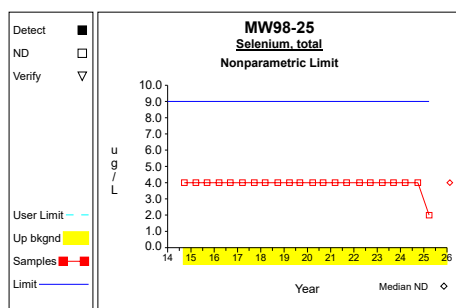
Graph 203



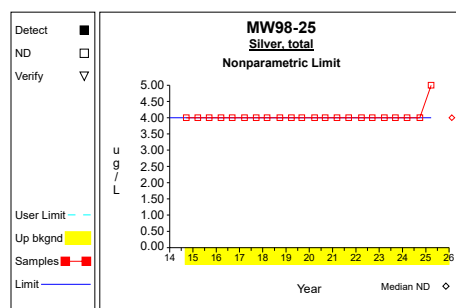
Graph 204



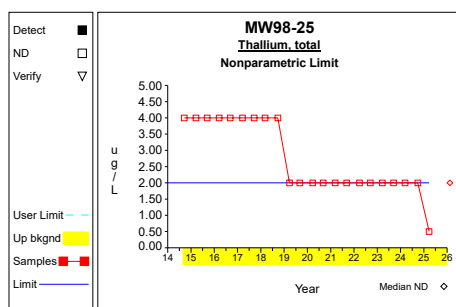
Graph 205



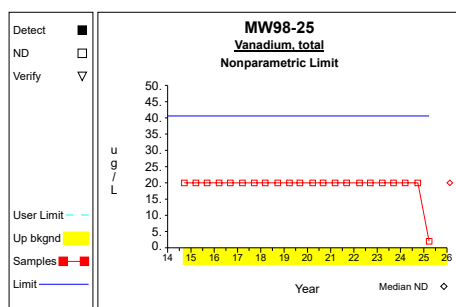
Graph 206



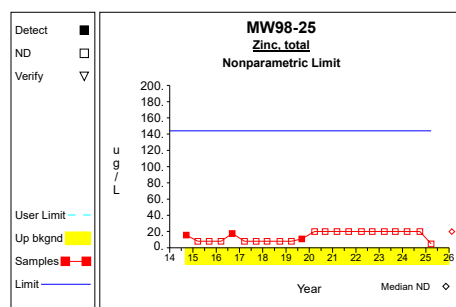
Graph 207



Graph 208

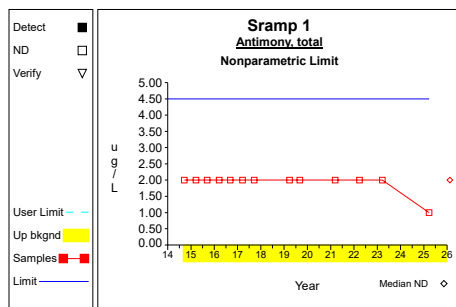


Graph 209

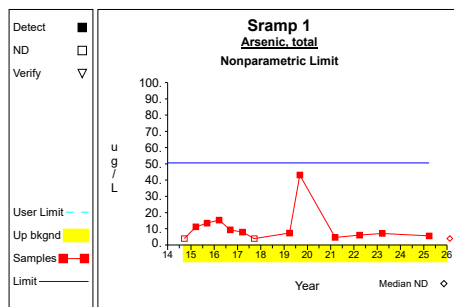


Graph 210

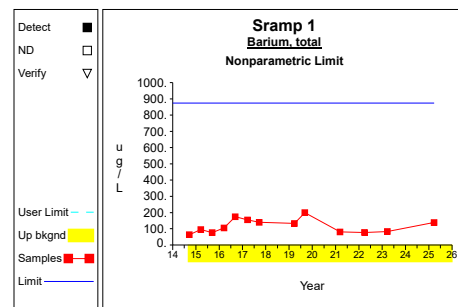
Up vs. Down Prediction Limits



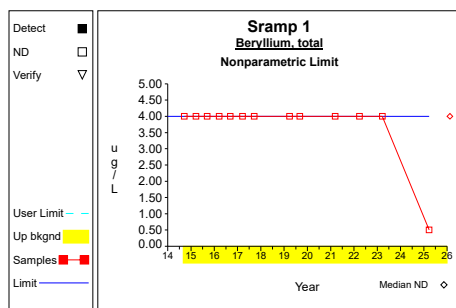
Graph 211



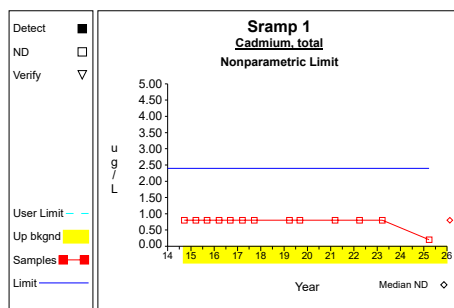
Graph 212



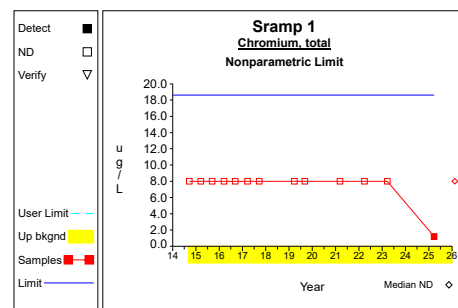
Graph 213



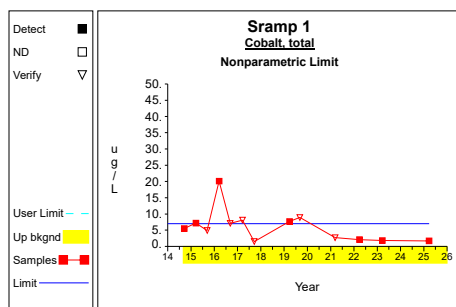
Graph 214



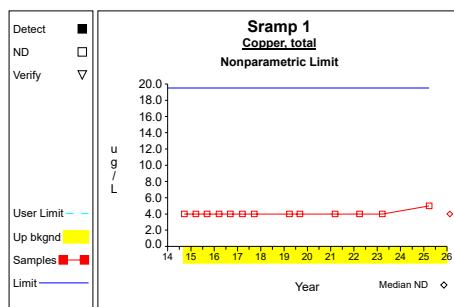
Graph 215



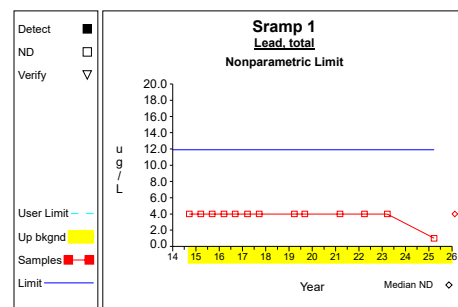
Graph 216



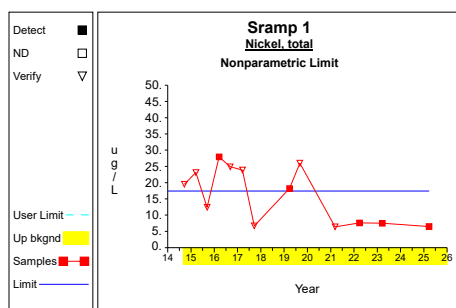
Graph 217



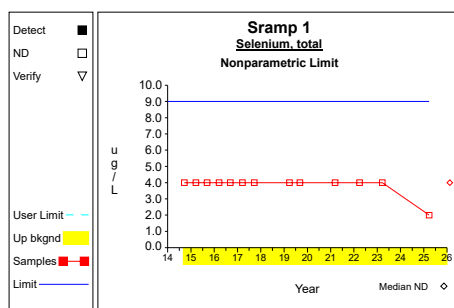
Graph 218



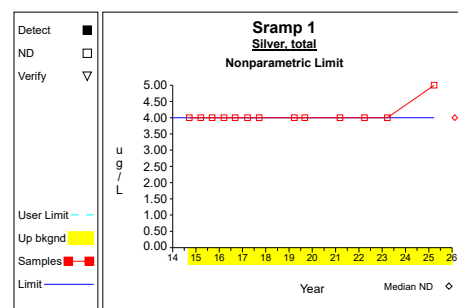
Graph 219



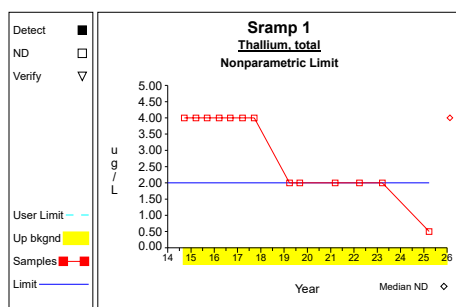
Graph 220



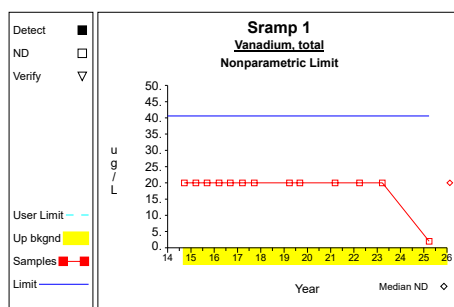
Graph 221



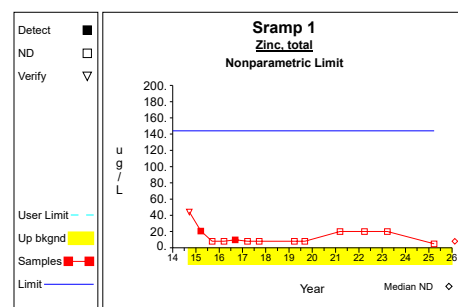
Graph 222



Graph 223

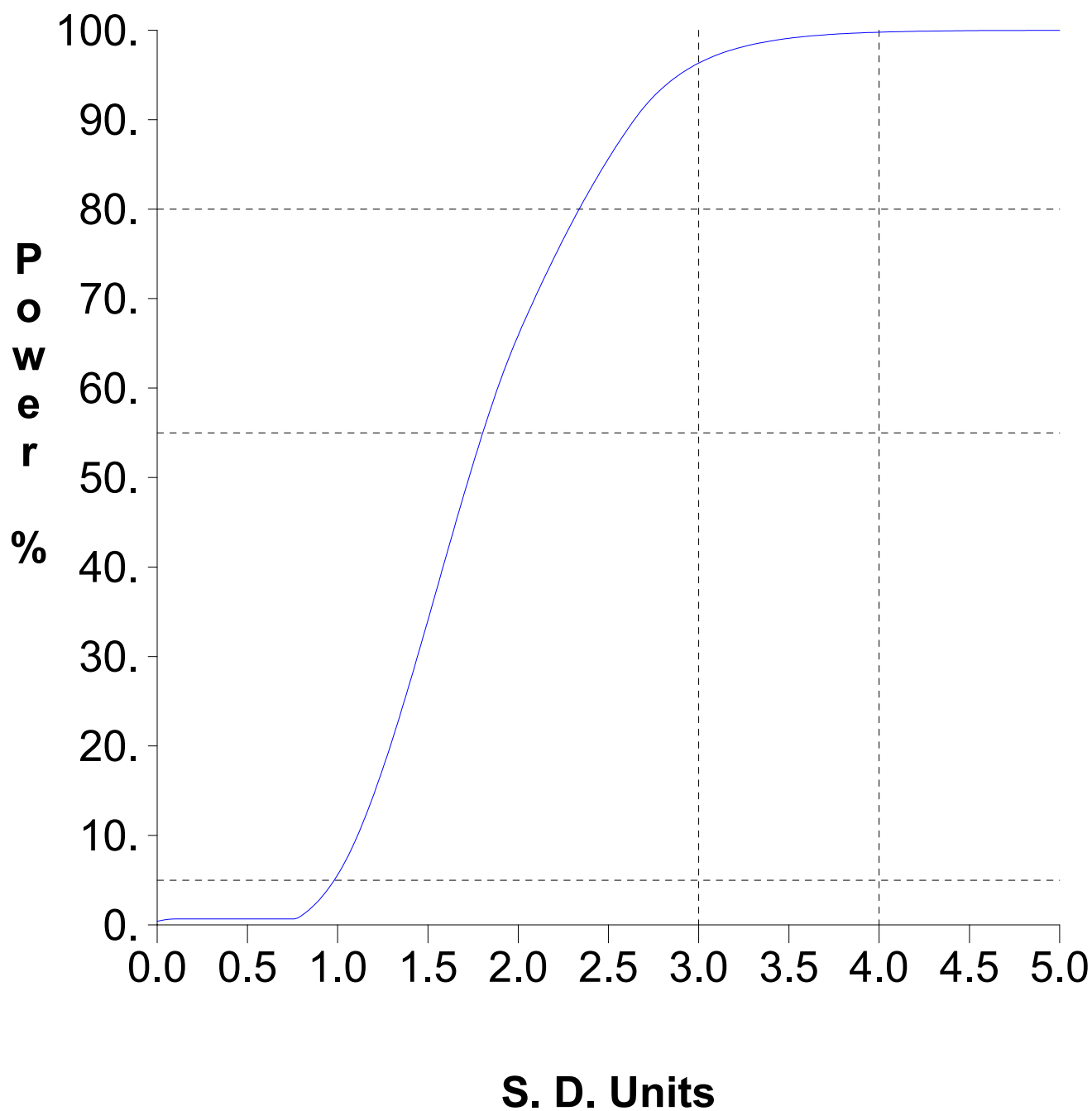


Graph 224



Graph 225

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



Worksheet 1 - Upgradient vs. Downgradient Comparisons**Antimony, total (ug/L)****Nonparametric Prediction Limit**

<u>Step</u>	<u>Equation</u>	<u>Description</u>
1	PL = max(X) = 4.5	Compute nonparametric prediction limit as largest background measurement.
2	Conf = 0.99	Confidence level is based on N, K and resampling strategy (see Gibbons 1994).

Worksheet 1 - Upgradient vs. Downgradient Comparisons**Arsenic, total (ug/L)****Nonparametric Prediction Limit**

<u>Step</u>	<u>Equation</u>	<u>Description</u>
1	PL = max(X) = 50.6	Compute nonparametric prediction limit as largest background measurement.
2	Conf = 0.99	Confidence level is based on N, K and resampling strategy (see Gibbons 1994).

Worksheet 1 - Upgradient vs. Downgradient Comparisons**Barium, total (ug/L)****Nonparametric Prediction Limit**

<u>Step</u>	<u>Equation</u>	<u>Description</u>
1	PL = max(X) = 874.0	Compute nonparametric prediction limit as largest background measurement.
2	Conf = 0.99	Confidence level is based on N, K and resampling strategy (see Gibbons 1994).

Worksheet 1 - Upgradient vs. Downgradient Comparisons**Beryllium, total (ug/L)****Nonparametric Prediction Limit**

<u>Step</u>	<u>Equation</u>	<u>Description</u>
1	PL = median(X) = 4.0	Compute nonparametric prediction limit as median reporting limit in background.
2	Conf = 0.99	Confidence level is based on N, K and resampling strategy (see Gibbons 1994).

Worksheet 1 - Upgradient vs. Downgradient Comparisons**Cadmium, total (ug/L)****Nonparametric Prediction Limit**

<u>Step</u>	<u>Equation</u>	<u>Description</u>
1	PL = max(X) = 2.4	Compute nonparametric prediction limit as largest background measurement.
2	Conf = 0.99	Confidence level is based on N, K and resampling strategy (see Gibbons 1994).

Worksheet 1 - Upgradient vs. Downgradient Comparisons**Chromium, total (ug/L)****Nonparametric Prediction Limit**

<u>Step</u>	<u>Equation</u>	<u>Description</u>
1	PL = max(X) = 18.6	Compute nonparametric prediction limit as largest background measurement.
2	Conf = 0.99	Confidence level is based on N, K and resampling strategy (see Gibbons 1994).

Worksheet 1 - Upgradient vs. Downgradient Comparisons**Cobalt, total (ug/L)****Nonparametric Prediction Limit**

<u>Step</u>	<u>Equation</u>	<u>Description</u>
1	PL = max(X) = 7.0	Compute nonparametric prediction limit as largest background measurement.
2	Conf = 0.99	Confidence level is based on N, K and resampling strategy (see Gibbons 1994).

Worksheet 1 - Upgradient vs. Downgradient Comparisons**Copper, total (ug/L)****Nonparametric Prediction Limit**

<u>Step</u>	<u>Equation</u>	<u>Description</u>
1	PL = max(X) = 19.5	Compute nonparametric prediction limit as largest background measurement.
2	Conf = 0.99	Confidence level is based on N, K and resampling strategy (see Gibbons 1994).

Worksheet 1 - Upgradient vs. Downgradient Comparisons**Lead, total (ug/L)****Nonparametric Prediction Limit**

<u>Step</u>	<u>Equation</u>	<u>Description</u>
1	PL = max(X) = 11.9	Compute nonparametric prediction limit as largest background measurement.
2	Conf = 0.99	Confidence level is based on N, K and resampling strategy (see Gibbons 1994).

Worksheet 1 - Upgradient vs. Downgradient Comparisons**Nickel, total (ug/L)****Nonparametric Prediction Limit**

<u>Step</u>	<u>Equation</u>	<u>Description</u>
1	PL = max(X) = 17.4	Compute nonparametric prediction limit as largest background measurement.
2	Conf = 0.99	Confidence level is based on N, K and resampling strategy (see Gibbons 1994).

Worksheet 1 - Upgradient vs. Downgradient Comparisons**Selenium, total (ug/L)****Nonparametric Prediction Limit**

<u>Step</u>	<u>Equation</u>	<u>Description</u>
1	PL = max(X) = 9.0	Compute nonparametric prediction limit as largest background measurement.
2	Conf = 0.99	Confidence level is based on N, K and resampling strategy (see Gibbons 1994).

Worksheet 1 - Upgradient vs. Downgradient Comparisons**Silver, total (ug/L)****Nonparametric Prediction Limit**

<u>Step</u>	<u>Equation</u>	<u>Description</u>
1	PL = median(X) = 4.0	Compute nonparametric prediction limit as median reporting limit in background.
2	Conf = 0.99	Confidence level is based on N, K and resampling strategy (see Gibbons 1994).

Worksheet 1 - Upgradient vs. Downgradient Comparisons**Thallium, total (ug/L)****Nonparametric Prediction Limit**

<u>Step</u>	<u>Equation</u>	<u>Description</u>
1	PL = median(X) = 2.0	Compute nonparametric prediction limit as median reporting limit in background.
2	Conf = 0.99	Confidence level is based on N, K and resampling strategy (see Gibbons 1994).

Worksheet 1 - Upgradient vs. Downgradient Comparisons**Vanadium, total (ug/L)****Nonparametric Prediction Limit**

<u>Step</u>	<u>Equation</u>	<u>Description</u>
1	PL = max(X) = 40.6	Compute nonparametric prediction limit as largest background measurement.
2	Conf = 0.99	Confidence level is based on N, K and resampling strategy (see Gibbons 1994).

Worksheet 1 - Upgradient vs. Downgradient Comparisons**Zinc, total (ug/L)****Nonparametric Prediction Limit**

<u>Step</u>	<u>Equation</u>	<u>Description</u>
1	PL = max(X) = 144.0	Compute nonparametric prediction limit as largest background measurement.
2	Conf = 0.99	Confidence level is based on N, K and resampling strategy (see Gibbons 1994).

Attachment C

Assessment Statistics for Detected Trace Metals

Table 1

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

Constituent	Units	Well	N	Mean	SD	Factor	95% LCL	95% UCL	Standard	Trend	
Cobalt, total	ug/L	GU-3	4	0.850	1.300	1.176	0.000	2.379	2.100		
Nickel, total	ug/L	GU-3	4	28.000	7.119	1.176	19.625	36.375	100.000		
Zinc, total	ug/L	GU-3	4	10.000	0.000	1.176	10.000	10.000	2000.000		
Cobalt, total	ug/L	GU-4	4	1.225	1.190	1.176	0.000	2.625	2.100		
Nickel, total	ug/L	GU-4	4	5.775	3.268	1.176	1.930	9.620	100.000		
Zinc, total	ug/L	GU-4	4	155.725	112.425	1.176	23.481	287.969	2000.000		
Cobalt, total	ug/L	MW98-25	4	11.400	2.731	1.176	8.187	14.613	2.100	dec	**
Nickel, total	ug/L	MW98-25	4	26.250	6.978	1.176	18.042	34.458	100.000	dec	
Zinc, total	ug/L	MW98-25	4	4.000	0.000	1.176	4.000	4.000	2000.000		

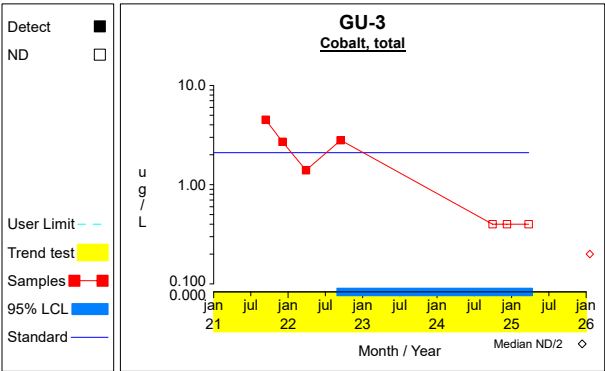
* - Insufficient Data

** - Significant Exceedance

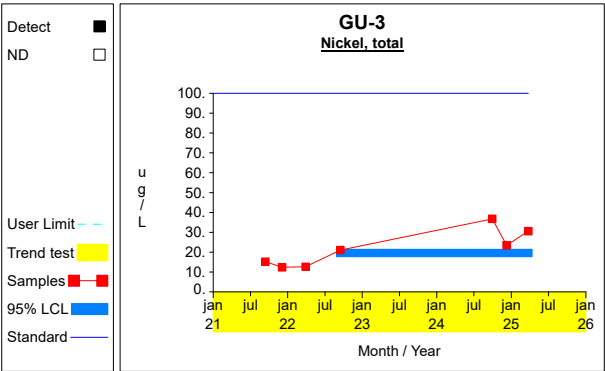
LCL = Lower Confidence Limit

UCL = Upper Confidence Limit

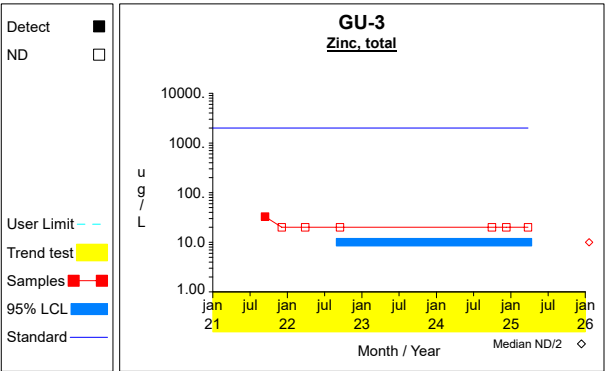
Confidence Limits (Assessment)



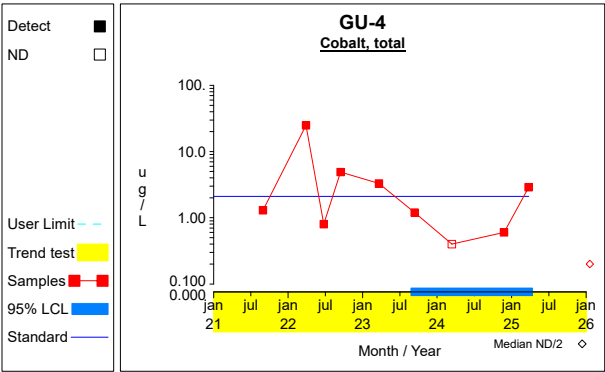
Graph 1



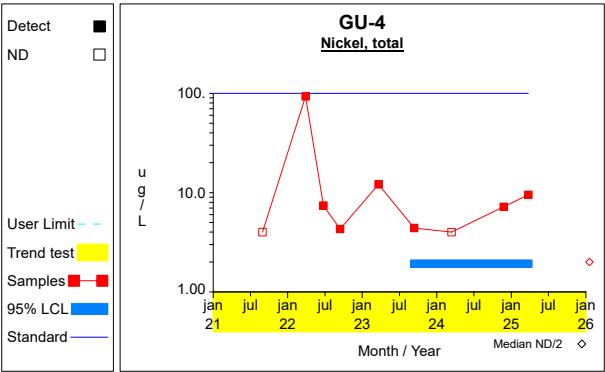
Graph 2



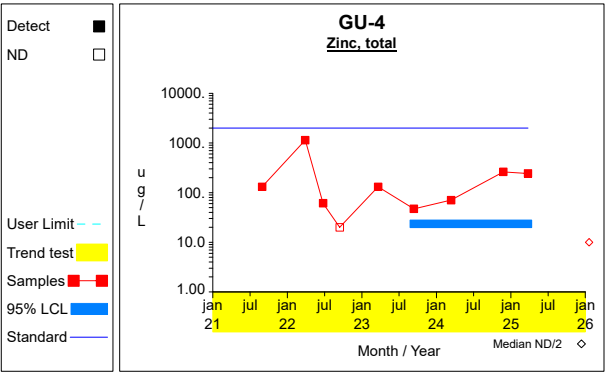
Graph 3



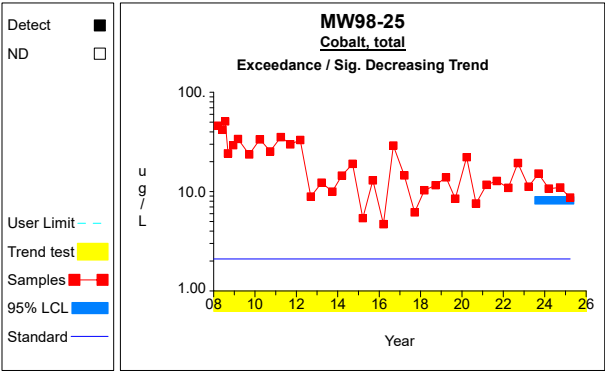
Graph 4



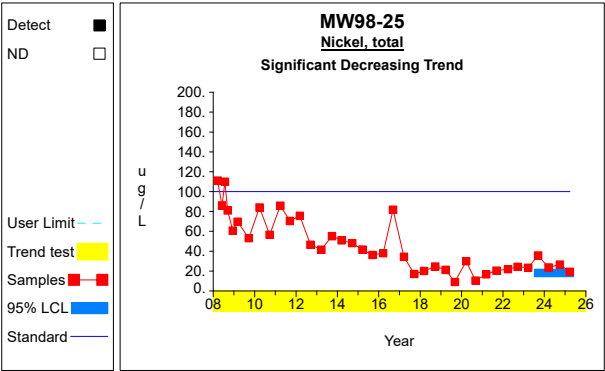
Graph 5



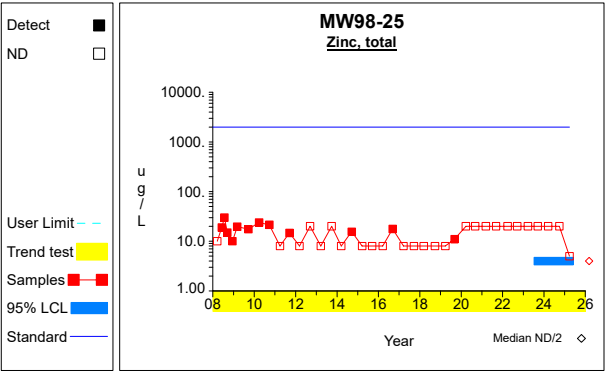
Graph 6



Graph 7



Graph 8



Graph 9

Worksheet 6 - Assessment Monitoring
Cobalt, total (ug/L) at GU-3

<u>Step</u>	<u>Equation</u>	<u>Description</u>
1	$\bar{X} = \text{sum}[X] / N$ $= 3.4 / 4$ $= 0.85$	Compute the mean of the last 4 measurements.
2	$S = ((\text{sum}[X^2] - \text{sum}[X]^2/N) / (N-1))^{1/2}$ $= ((7.96 - 11.56/4) / (4-1))^{1/2}$ $= 1.3$	Compute sd of the last 4 measurements.
3	$LCL = \bar{X} - tS/N^{1/2}$ $= 0.85 - 2.353 * 1.3/4^{1/2}$ $= 0.0$	Compute lower confidence limit for the mean of the last 4 measurements.
4	$UCL = \bar{X} + tS/N^{1/2}$ $= 0.85 + 2.353 * 1.3/4^{1/2}$ $= 2.379$	Compute upper confidence limit for the mean of the last 4 measurements.
5	$N' = N * (N-1) / 2$ $= 7 * (7-1) / 2$ $= 21$	Number of sample pairs during trend detection period.
6	$S = -0.885$	Sen's estimator of trend.
7	$\text{var}(S) = 40.667$	Variance estimate for slope.
8	$M(S) = (N' \pm Z_{.995} * \text{var}(S)^{1/2}) / 2$ $= (21 \pm 2.576 * 40.667^{1/2}) / 2$ $= [2.286, 18.714]$	Ordinal positions for two-sided lower confidence limits for slope. The LCL and UCL are the M th largest slope estimates for the values shown. When the values are not integers, interpolation is used.
9	$CL(S) = [-5.301, 0.0]$	Two-sided confidence interval for slope.
10	the interval includes 0	There is no significant trend.

Worksheet 6 - Assessment Monitoring
Nickel, total (ug/L) at GU-3

<u>Step</u>	<u>Equation</u>	<u>Description</u>
1	$\bar{X} = \text{sum}[X] / N$ $= 112.0 / 4$ $= 28.0$	Compute the mean of the last 4 measurements.
2	$S = ((\text{sum}[X^2] - \text{sum}[X]^2/N) / (N-1))^{1/2}$ $= ((3288.06 - 12544.0/4) / (4-1))^{1/2}$ $= 7.119$	Compute sd of the last 4 measurements.
3	$\text{LCL} = \bar{X} - tS/N^{1/2}$ $= 28.0 - 2.353 * 7.119/4^{1/2}$ $= 19.625$	Compute lower confidence limit for the mean of the last 4 measurements.
4	$\text{UCL} = \bar{X} + tS/N^{1/2}$ $= 28.0 + 2.353 * 7.119/4^{1/2}$ $= 36.375$	Compute upper confidence limit for the mean of the last 4 measurements.
5	$N' = N * (N-1) / 2$ $= 7 * (7-1) / 2$ $= 21$	Number of sample pairs during trend detection period.
6	$S = 4.368$	Sen's estimator of trend.
7	$\text{var}(S) = 44.333$	Variance estimate for slope.
8	$M(S) = (N' \pm Z_{.995} * \text{var}(S)^{1/2}) / 2$ $= (21 \pm 2.576 * 44.333^{1/2}) / 2$ $= [1.924, 19.076]$	Ordinal positions for two-sided lower confidence limits for slope. The LCL and UCL are the M th largest slope estimates for the values shown. When the values are not integers, interpolation is used.
9	$\text{CL}(S) = [-17.323, 11.621]$	Two-sided confidence interval for slope.
10	the interval includes 0	There is no significant trend.

Worksheet 6 - Assessment Monitoring
Zinc, total (ug/L) at GU-3

<u>Step</u>	<u>Equation</u>	<u>Description</u>
1	$\bar{X} = \text{sum}[X] / N$ $= 40.0 / 4$ $= 10.0$	Compute the mean of the last 4 measurements.
2	$S = ((\text{sum}[X^2] - \text{sum}[X]^2/N) / (N-1))^{1/2}$ $= ((400.0 - 1600.0/4) / (4-1))^{1/2}$ $= 0.0$	Compute sd of the last 4 measurements.
3	$\text{LCL} = \bar{X} - tS/N^{1/2}$ $= 10.0 - 2.353 * 0.0/4^{1/2}$ $= 10.0$	Compute lower confidence limit for the mean of the last 4 measurements.
4	$\text{UCL} = \bar{X} + tS/N^{1/2}$ $= 10.0 + 2.353 * 0.0/4^{1/2}$ $= 10.0$	Compute upper confidence limit for the mean of the last 4 measurements.
5	$N' = N * (N-1) / 2$ $= 7 * (7-1) / 2$ $= 21$	Number of sample pairs during trend detection period.
6	$S = 0.0$	Sen's estimator of trend.
7	$\text{var}(S) = 16.0$	Variance estimate for slope.
8	$M(S) = (N' \pm Z_{.995} * \text{var}(S)^{1/2}) / 2$ $= (21 \pm 2.576 * 16.0^{1/2}) / 2$ $= [5.348, 15.652]$	Ordinal positions for two-sided lower confidence limits for slope. The LCL and UCL are the M th largest slope estimates for the values shown. When the values are not integers, interpolation is used.
9	$\text{CL}(S) = [-6.874, 0.0]$	Two-sided confidence interval for slope.
10	the interval includes 0	There is no significant trend.

Worksheet 6 - Assessment Monitoring
Cobalt, total (ug/L) at GU-4

<u>Step</u>	<u>Equation</u>	<u>Description</u>
1	$\bar{X} = \text{sum}[X] / N$ $= 4.9 / 4$ $= 1.225$	Compute the mean of the last 4 measurements.
2	$S = ((\text{sum}[X^2] - \text{sum}[X]^2/N) / (N-1))^{1/2}$ $= ((10.25 - 24.01/4) / (4-1))^{1/2}$ $= 1.19$	Compute sd of the last 4 measurements.
3	$\text{LCL} = \bar{X} - tS/N^{1/2}$ $= 1.225 - 2.353 * 1.19/4^{1/2}$ $= 0.0$	Compute lower confidence limit for the mean of the last 4 measurements.
4	$\text{UCL} = \bar{X} + tS/N^{1/2}$ $= 1.225 + 2.353 * 1.19/4^{1/2}$ $= 2.625$	Compute upper confidence limit for the mean of the last 4 measurements.
5	$N' = N * (N-1) / 2$ $= 9 * (9-1) / 2$ $= 36$	Number of sample pairs during trend detection period.
6	$S = -0.466$	Sen's estimator of trend.
7	$\text{var}(S) = 92.0$	Variance estimate for slope.
8	$M(S) = (N' \pm Z_{.995} * \text{var}(S)^{1/2}) / 2$ $= (36 \pm 2.576 * 92.0^{1/2}) / 2$ $= [5.646, 30.354]$	Ordinal positions for two-sided lower confidence limits for slope. The LCL and UCL are the M th largest slope estimates for the values shown. When the values are not integers, interpolation is used.
9	$\text{CL}(S) = [-10.359, 1.759]$	Two-sided confidence interval for slope.
10	the interval includes 0	There is no significant trend.

Worksheet 6 - Assessment Monitoring
Nickel, total (ug/L) at GU-4

<u>Step</u>	<u>Equation</u>	<u>Description</u>
1	$\bar{X} = \text{sum}[X] / N$ $= 23.1 / 4$ $= 5.775$	Compute the mean of the last 4 measurements.
2	$S = ((\text{sum}[X^2] - \text{sum}[X]^2/N) / (N-1))^{1/2}$ $= ((165.45 - 533.61/4) / (4-1))^{1/2}$ $= 3.268$	Compute sd of the last 4 measurements.
3	$\text{LCL} = \bar{X} - tS/N^{1/2}$ $= 5.775 - 2.353 * 3.268/4^{1/2}$ $= 1.93$	Compute lower confidence limit for the mean of the last 4 measurements.
4	$\text{UCL} = \bar{X} + tS/N^{1/2}$ $= 5.775 + 2.353 * 3.268/4^{1/2}$ $= 9.62$	Compute upper confidence limit for the mean of the last 4 measurements.
5	$N' = N * (N-1) / 2$ $= 9 * (9-1) / 2$ $= 36$	Number of sample pairs during trend detection period.
6	$S = 0.05$	Sen's estimator of trend.
7	$\text{var}(S) = 91.0$	Variance estimate for slope.
8	$M(S) = (N' \pm Z_{.995} * \text{var}(S)^{1/2}) / 2$ $= (36 \pm 2.576 * 91.0^{1/2}) / 2$ $= [5.713, 30.287]$	Ordinal positions for two-sided lower confidence limits for slope. The LCL and UCL are the M th largest slope estimates for the values shown. When the values are not integers, interpolation is used.
9	$\text{CL}(S) = [-36.385, 6.534]$	Two-sided confidence interval for slope.
10	the interval includes 0	There is no significant trend.

Worksheet 6 - Assessment Monitoring
Zinc, total (ug/L) at GU-4

<u>Step</u>	<u>Equation</u>	<u>Description</u>
1	$\bar{X} = \text{sum}[X] / N$ $= 622.9 / 4$ $= 155.725$	Compute the mean of the last 4 measurements.
2	$S = ((\text{sum}[X^2] - \text{sum}[X]^2/N) / (N-1))^{1/2}$ $= ((134919.33 - 388004.41/4) / (4-1))^{1/2}$ $= 112.425$	Compute sd of the last 4 measurements.
3	$\text{LCL} = \bar{X} - tS/N^{1/2}$ $= 155.725 - 2.353 * 112.425/4^{1/2}$ $= 23.481$	Compute lower confidence limit for the mean of the last 4 measurements.
4	$\text{UCL} = \bar{X} + tS/N^{1/2}$ $= 155.725 + 2.353 * 112.425/4^{1/2}$ $= 287.969$	Compute upper confidence limit for the mean of the last 4 measurements.
5	$N' = N * (N-1) / 2$ $= 9 * (9-1) / 2$ $= 36$	Number of sample pairs during trend detection period.
6	$S = 18.448$	Sen's estimator of trend.
7	$\text{var}(S) = 91.0$	Variance estimate for slope.
8	$M(S) = (N' \pm Z_{.995} * \text{var}(S)^{1/2}) / 2$ $= (36 \pm 2.576 * 91.0^{1/2}) / 2$ $= [5.713, 30.287]$	Ordinal positions for two-sided lower confidence limits for slope. The LCL and UCL are the M th largest slope estimates for the values shown. When the values are not integers, interpolation is used.
9	$\text{CL}(S) = [-391.702, 118.517]$	Two-sided confidence interval for slope.
10	the interval includes 0	There is no significant trend.

Worksheet 6 - Assessment Monitoring
Cobalt, total (ug/L) at MW98-25

<u>Step</u>	<u>Equation</u>	<u>Description</u>
1	$\bar{X} = \text{sum}[X] / N$ $= 45.6 / 4$ $= 11.4$	Compute the mean of the last 4 measurements.
2	$S = ((\text{sum}[X^2] - \text{sum}[X]^2/N) / (N-1))^{1/2}$ $= ((542.22 - 2079.36/4) / (4-1))^{1/2}$ $= 2.731$	Compute sd of the last 4 measurements.
3	$\text{LCL} = \bar{X} - tS/N^{1/2}$ $= 11.4 - 2.353 * 2.731/4^{1/2}$ $= 8.187$	Compute lower confidence limit for the mean of the last 4 measurements.
4	$\text{UCL} = \bar{X} + tS/N^{1/2}$ $= 11.4 + 2.353 * 2.731/4^{1/2}$ $= 14.613$	Compute upper confidence limit for the mean of the last 4 measurements.
5	$N' = N * (N-1) / 2$ $= 38 * (38-1) / 2$ $= 703$	Number of sample pairs during trend detection period.
6	$S = -1.353$	Sen's estimator of trend.
7	$\text{var}(S) = 6327.0$	Variance estimate for slope.
8	$M(S) = (N' \pm Z_{.995} * \text{var}(S)^{1/2}) / 2$ $= (703 \pm 2.576 * 6327.0^{1/2}) / 2$ $= [249.049, 453.951]$	Ordinal positions for two-sided lower confidence limits for slope. The LCL and UCL are the M th largest slope estimates for the values shown. When the values are not integers, interpolation is used.
9	$\text{CL}(S) = [-2.234, -0.49]$	Two-sided confidence interval for slope.
10	$\text{UCL}(S) < 0$	Significant decreasing trend.

Worksheet 6 - Assessment Monitoring
Nickel, total (ug/L) at MW98-25

<u>Step</u>	<u>Equation</u>	<u>Description</u>
1	$\bar{X} = \text{sum}[X] / N$ $= 105.0 / 4$ $= 26.25$	Compute the mean of the last 4 measurements.
2	$S = ((\text{sum}[X^2] - \text{sum}[X]^2/N) / (N-1))^{1/2}$ $= ((2902.34 - 11025.0/4) / (4-1))^{1/2}$ $= 6.978$	Compute sd of the last 4 measurements.
3	$\text{LCL} = \bar{X} - tS/N^{1/2}$ $= 26.25 - 2.353 * 6.978/4^{1/2}$ $= 18.042$	Compute lower confidence limit for the mean of the last 4 measurements.
4	$\text{UCL} = \bar{X} + tS/N^{1/2}$ $= 26.25 + 2.353 * 6.978/4^{1/2}$ $= 34.458$	Compute upper confidence limit for the mean of the last 4 measurements.
5	$N' = N * (N-1) / 2$ $= 38 * (38-1) / 2$ $= 703$	Number of sample pairs during trend detection period.
6	$S = -4.087$	Sen's estimator of trend.
7	$\text{var}(S) = 6327.0$	Variance estimate for slope.
8	$M(S) = (N' \pm Z_{.995} * \text{var}(S)^{1/2}) / 2$ $= (703 \pm 2.576 * 6327.0^{1/2}) / 2$ $= [249.049, 453.951]$	Ordinal positions for two-sided lower confidence limits for slope. The LCL and UCL are the M th largest slope estimates for the values shown. When the values are not integers, interpolation is used.
9	$\text{CL}(S) = [-5.811, -2.69]$	Two-sided confidence interval for slope.
10	$\text{UCL}(S) < 0$	Significant decreasing trend.

Worksheet 6 - Assessment Monitoring
Zinc, total (ug/L) at MW98-25

<u>Step</u>	<u>Equation</u>	<u>Description</u>
1	$\bar{X} = \text{sum}[X] / N$ $= 16.0 / 4$ $= 4.0$	Compute the mean of the last 4 measurements.
2	$S = ((\text{sum}[X^2] - \text{sum}[X]^2/N) / (N-1))^{1/2}$ $= ((64.0 - 256.0/4) / (4-1))^{1/2}$ $= 0.0$	Compute sd of the last 4 measurements.
3	$\text{LCL} = \bar{X} - tS/N^{1/2}$ $= 4.0 - 2.353 * 0.0/4^{1/2}$ $= 4.0$	Compute lower confidence limit for the mean of the last 4 measurements.
4	$\text{UCL} = \bar{X} + tS/N^{1/2}$ $= 4.0 + 2.353 * 0.0/4^{1/2}$ $= 4.0$	Compute upper confidence limit for the mean of the last 4 measurements.
5	$N' = N * (N-1) / 2$ $= 38 * (38-1) / 2$ $= 703$	Number of sample pairs during trend detection period.
6	$S = 0.0$	Sen's estimator of trend.
7	$\text{var}(S) = 4268.667$	Variance estimate for slope.
8	$M(S) = (N' \pm Z_{.995} * \text{var}(S)^{1/2}) / 2$ $= (703 \pm 2.576 * 4268.667^{1/2}) / 2$ $= [267.348, 435.652]$	Ordinal positions for two-sided lower confidence limits for slope. The LCL and UCL are the M th largest slope estimates for the values shown. When the values are not integers, interpolation is used.
9	$\text{CL}(S) = [-0.891, 0.0]$	Two-sided confidence interval for slope.
10	the interval includes 0	There is no significant trend.

Attachment D

Summary Tables and Graphs for the Intrawell Comparisons

Table 1

**Summary Statistics and Intermediate Computations
for Combined Shewhart-CUSUM Control Charts**

Constituent	Units	Well	N(back)	N(mon)	N(tot)	Mean	SD	R(i-1)	R(i)	S(i-1)	S(i)	Limit	Type	Conf	
Antimony, total	ug/L	GU-3	5	1	6								nonpar *		**
Arsenic, total	ug/L	GU-3	6	1	7	5.9167	1.8798	4.0000	4.0000		5.9167	18.1354	normal		
Barium, total	ug/L	GU-3	5	1	6	485.8000	120.9946	683.0000	719.0000		598.0054	1272.2651	normal		
Beryllium, total	ug/L	GU-3	6	1	7								nonpar *		**
Cadmium, total	ug/L	GU-3	6	1	7								nonpar *		**
Chromium, total	ug/L	GU-3	5	1	6								nonpar *		**
Cobalt, total	ug/L	GU-3	6	1	7	2.0333	1.6033	0.4000	0.4000		2.0333	12.4550	normal		
Copper, total	ug/L	GU-3	6	1	7								nonpar *		**
Lead, total	ug/L	GU-3	6	1	7								nonpar *		**
Nickel, total	ug/L	GU-3	6	1	7	20.2833	9.2662	23.5000	30.6000		21.3338	80.5134	normal		
Selenium, total	ug/L	GU-3	6	1	7								nonpar *		**
Silver, total	ug/L	GU-3	5	1	6								nonpar *		**
Thallium, total	ug/L	GU-3	5	1	6								nonpar *		**
Vanadium, total	ug/L	GU-3	6	1	7								nonpar *		**
Zinc, total	ug/L	GU-3	6	1	7								nonpar *		**
Antimony, total	ug/L	GU-4	6	1	7								nonpar *		**
Arsenic, total	ug/L	GU-4	7	1	9	4.6571	0.8522	5.1000	2.3000		4.6571	10.1962	normal		
Barium, total	ug/L	GU-4	6	1	7	445.5000	48.6282	415.0000	350.0000		445.5000	761.5832	normal		
Beryllium, total	ug/L	GU-4	8	1	9								nonpar *		**
Cadmium, total	ug/L	GU-4	8	1	9								nonpar *		**
Chromium, total	ug/L	GU-4	6	1	7								nonpar *		**
Cobalt, total	ug/L	GU-4	8	1	9	4.6750	8.3183	0.6000	2.9000		4.6750	58.7437	normal		
Copper, total	ug/L	GU-4	7	1	9								nonpar *		**
Lead, total	ug/L	GU-4	7	1	9								nonpar *		**
Nickel, total	ug/L	GU-4	8	1	9	17.0750	30.8838	7.2000	9.5000		17.0750	217.8196	normal		
Selenium, total	ug/L	GU-4	8	1	9								nonpar *		**
Silver, total	ug/L	GU-4	6	1	7								nonpar *		**
Thallium, total	ug/L	GU-4	6	1	7								nonpar *		**
Vanadium, total	ug/L	GU-4	7	1	9								nonpar *		**
Zinc, total	ug/L	GU-4	8	1	9	232.9000	374.1678	262.0000	243.0000		232.9000	2664.9906	normal		

N(back) and N(mon) = Non-outlier measurements in the background and monitoring periods.

N(tot) = All independent measurements for that constituent and well.

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

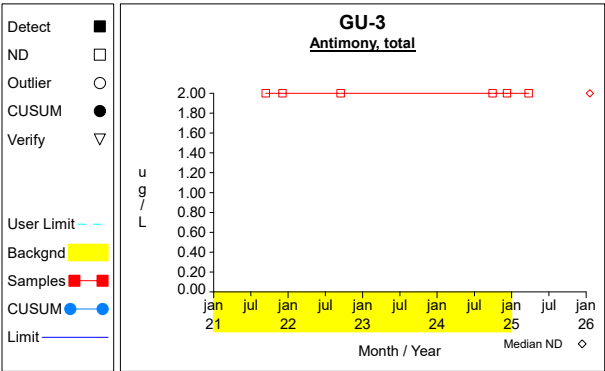
Conf = confidence level for passing initial test or one verification resample (nonparametric test only).

* - Insufficient Data.

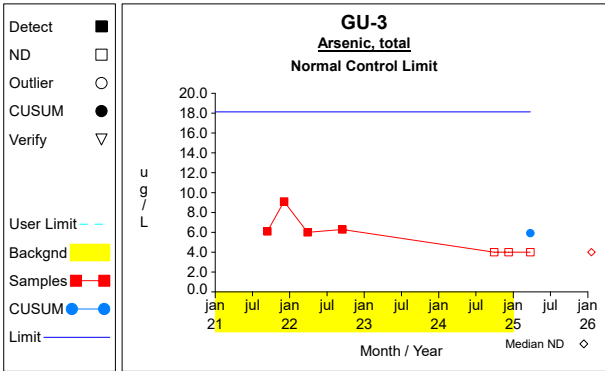
** - Detection Frequency < 25%.

*** - Zero Variance.

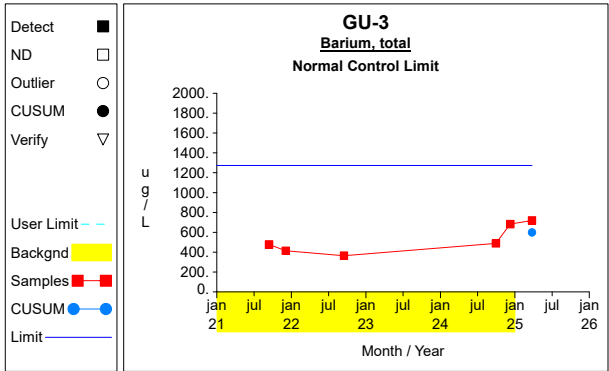
Intra-Well Control Charts / Prediction Limits



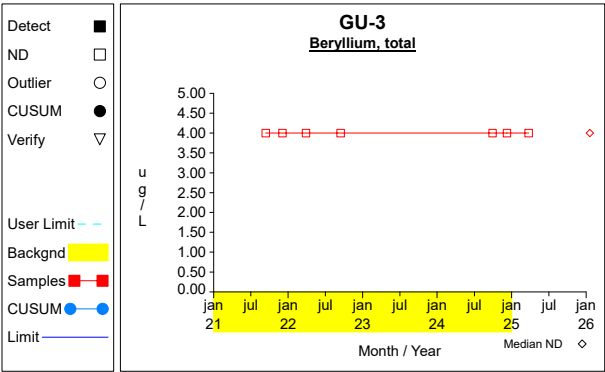
Graph 1



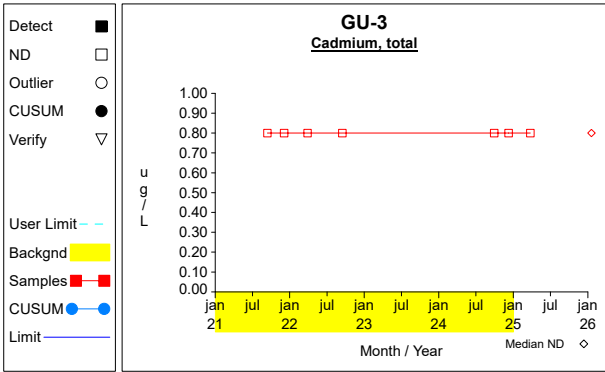
Graph 2



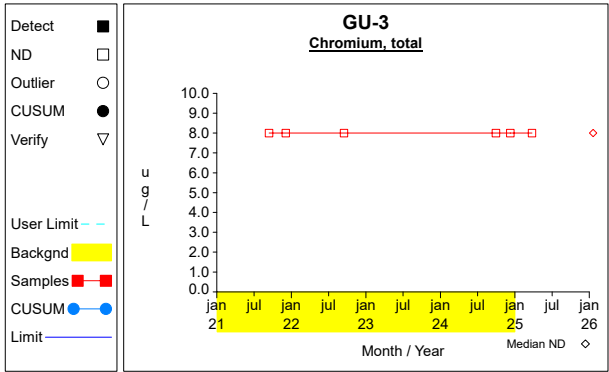
Graph 3



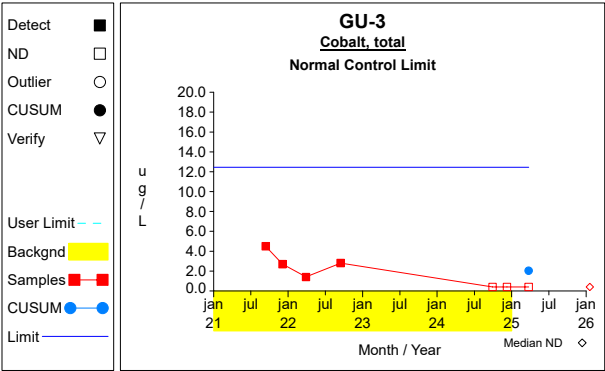
Graph 4



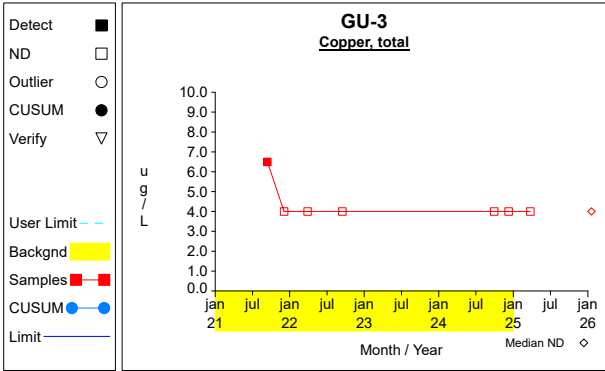
Graph 5



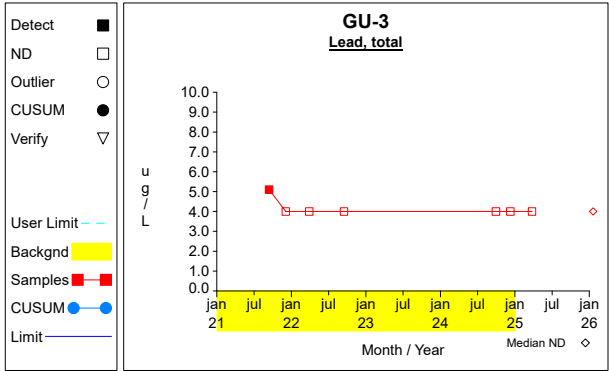
Graph 6



Graph 7

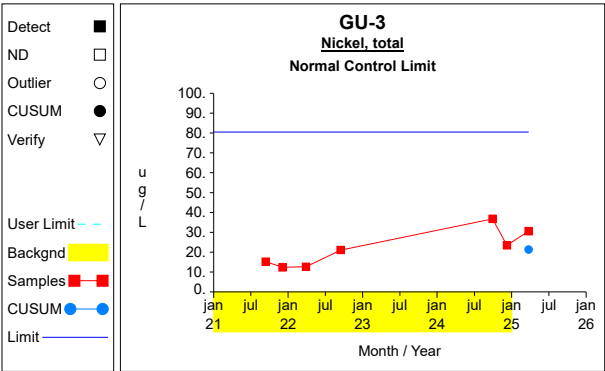


Graph 8

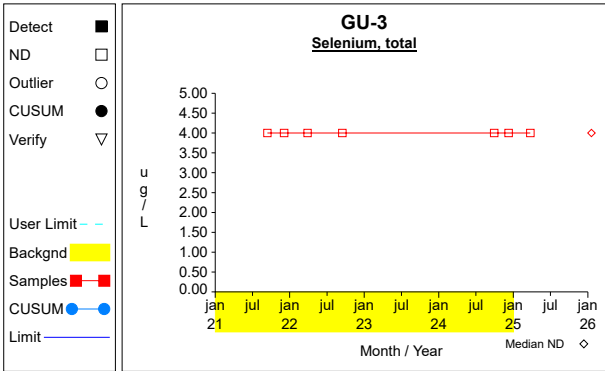


Graph 9

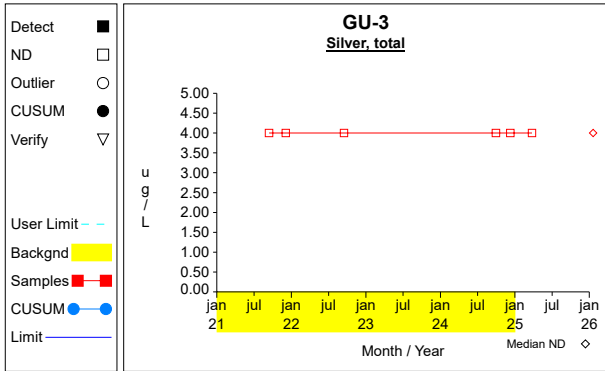
Intra-Well Control Charts / Prediction Limits



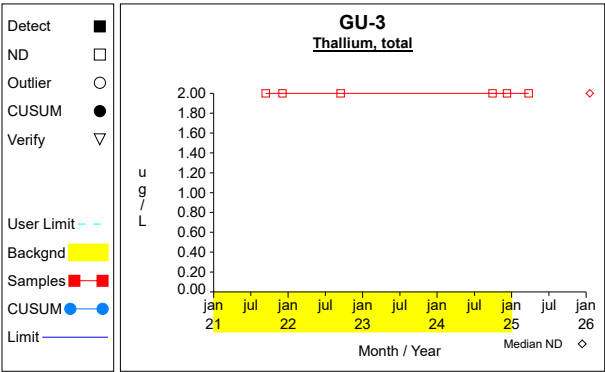
Graph 10



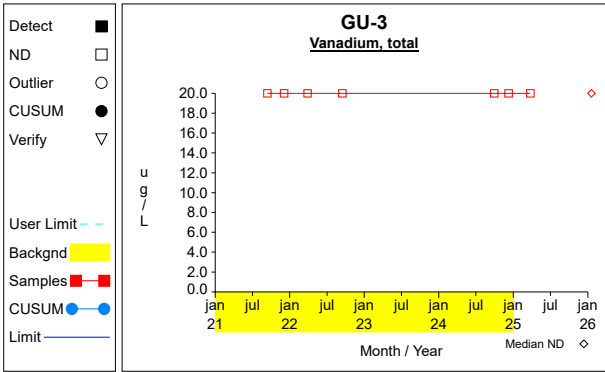
Graph 11



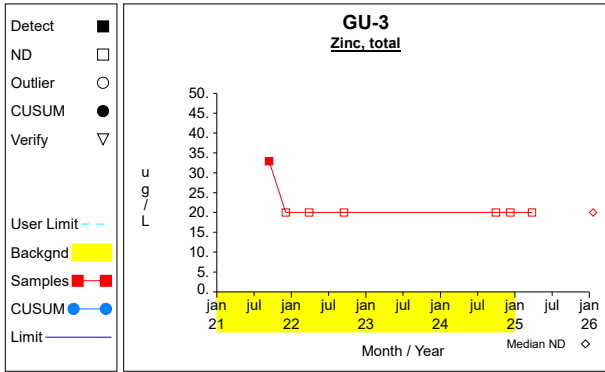
Graph 12



Graph 13

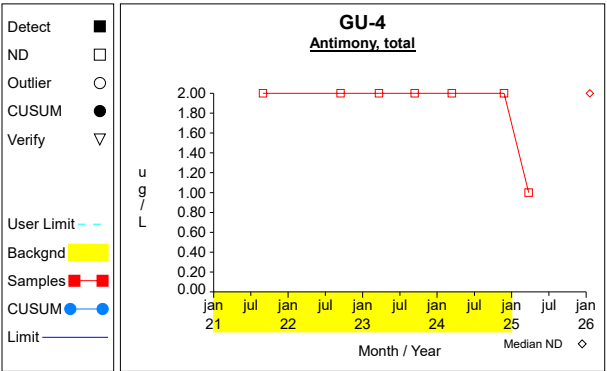


Graph 14

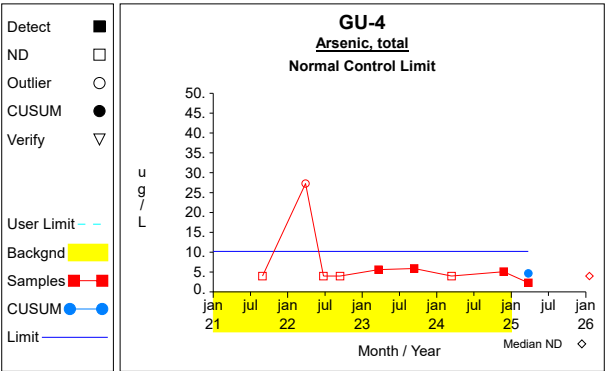


Graph 15

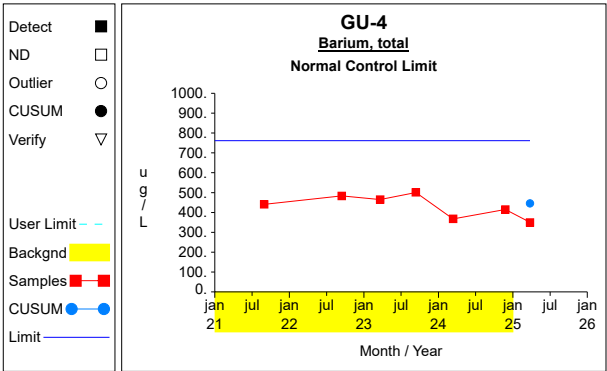
Intra-Well Control Charts / Prediction Limits



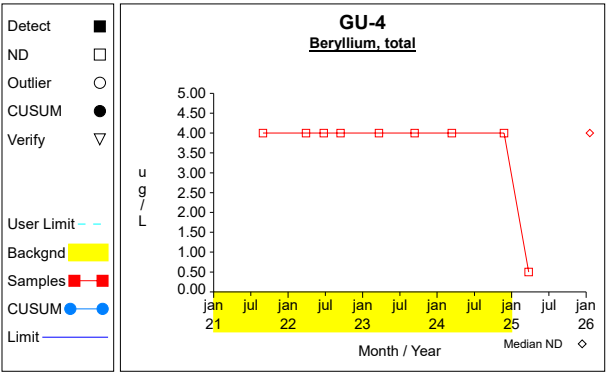
Graph 16



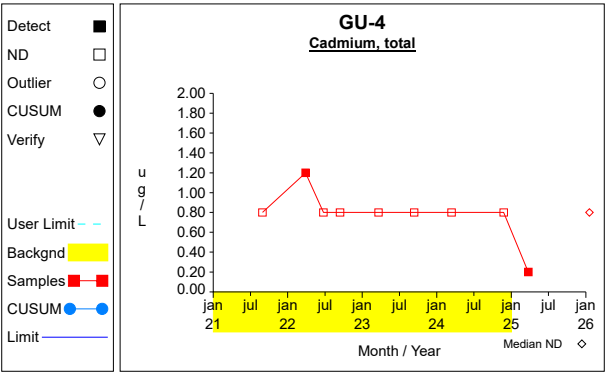
Graph 17



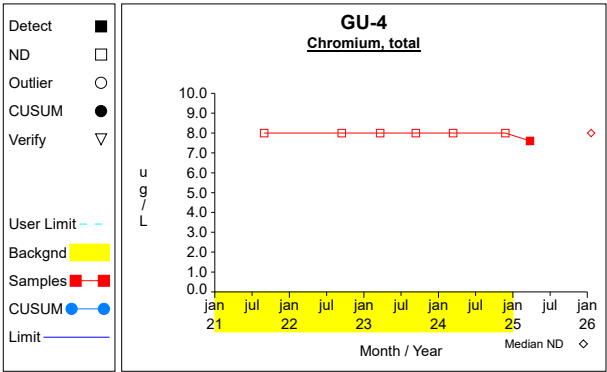
Graph 18



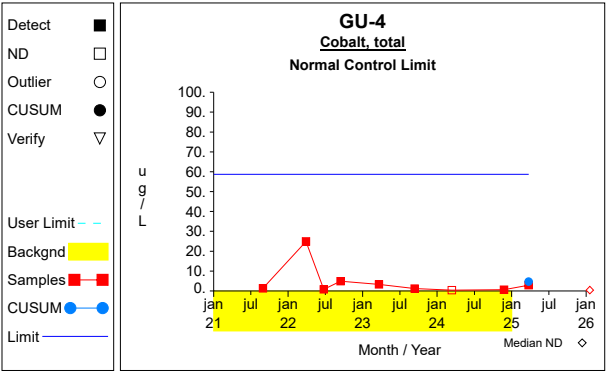
Graph 19



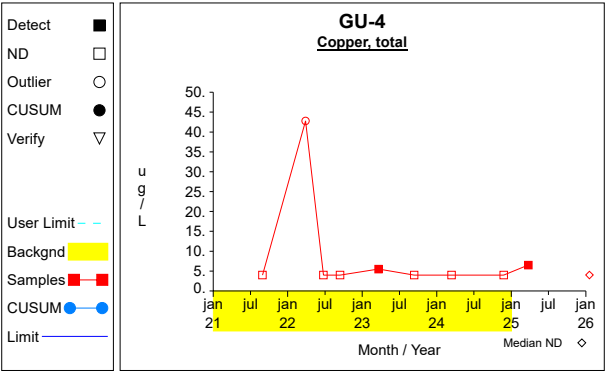
Graph 20



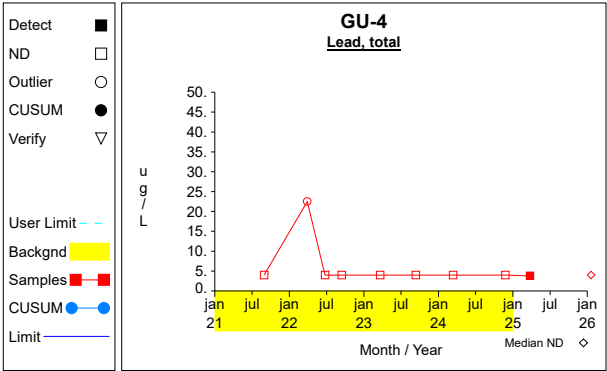
Graph 21



Graph 22

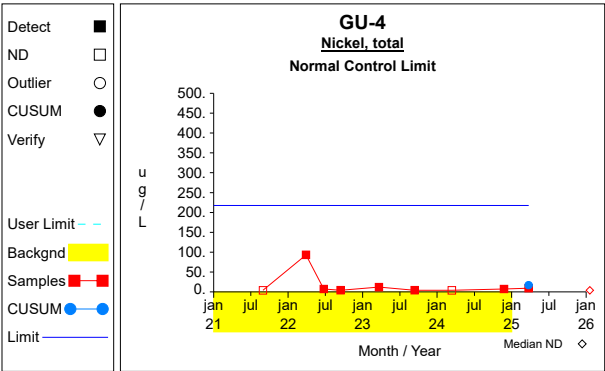


Graph 23

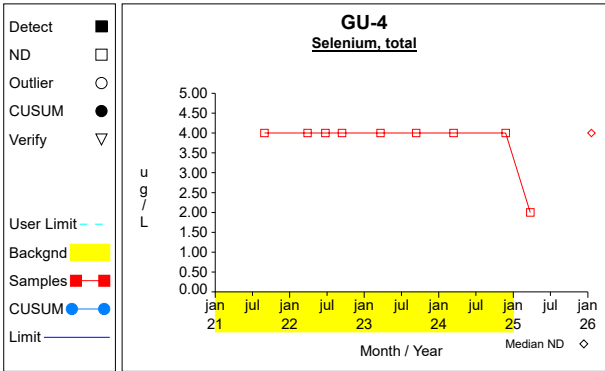


Graph 24

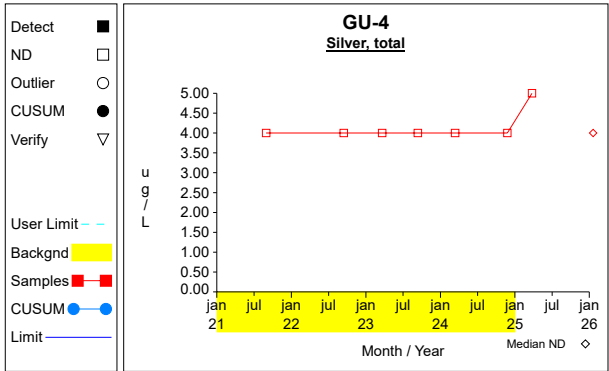
Intra-Well Control Charts / Prediction Limits



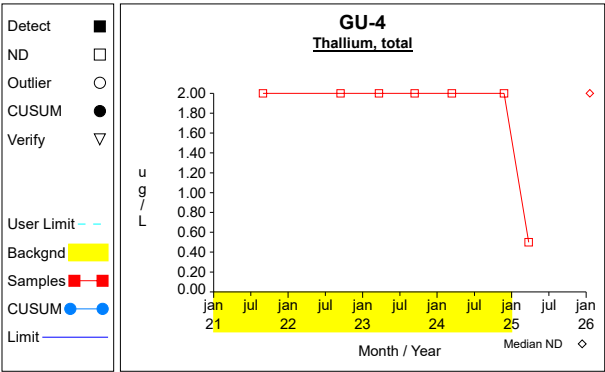
Graph 25



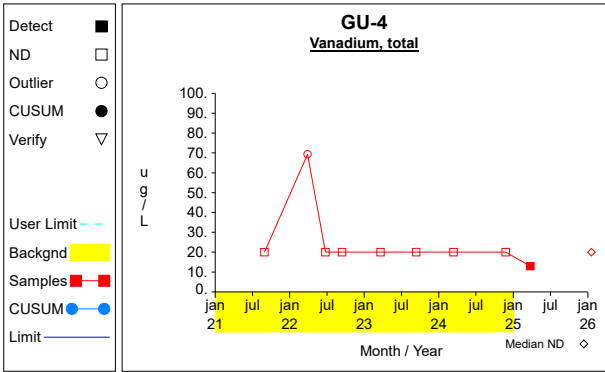
Graph 26



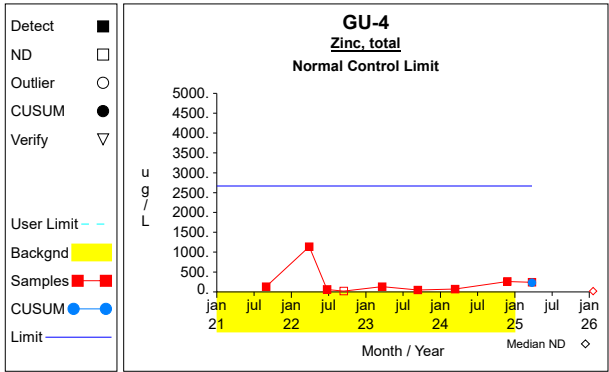
Graph 27



Graph 28



Graph 29



Graph 30

False Positive and False Negative Rates for Current Intra-Well Control Charts Monitoring Program

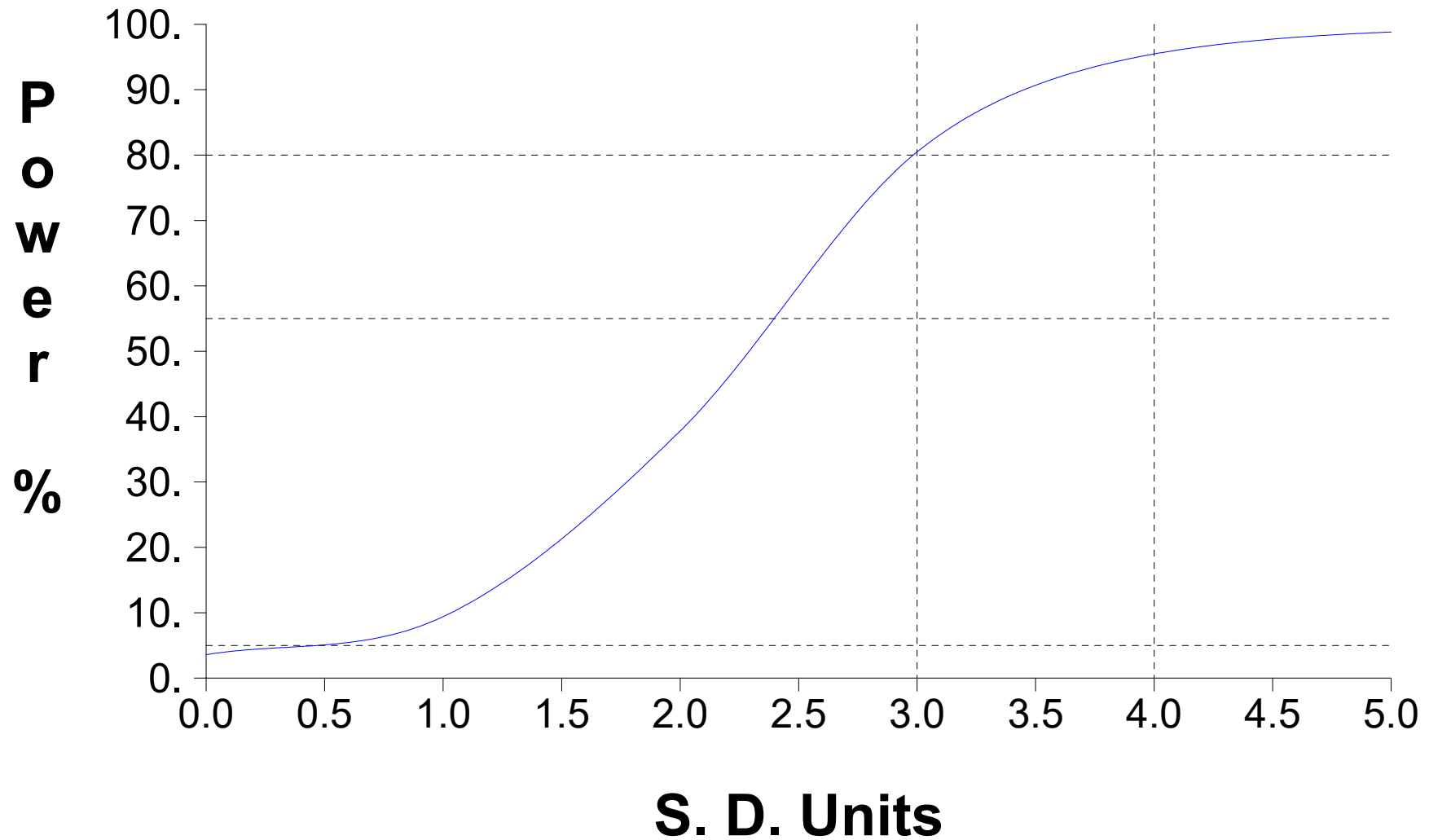


Table 2

Analytical Data and CUSUM Summary

Constituent	Units	Well	Date	Background	Result		Outlier	CUSUM	Adjusted	
Antimony, total	ug/L	GU-3	09/13/2021	yes	2.0000	ND				
Antimony, total	ug/L	GU-3	12/03/2021	yes	2.0000	ND				
Antimony, total	ug/L	GU-3	09/15/2022	yes	2.0000	ND				
Antimony, total	ug/L	GU-3	09/30/2024	yes	2.0000	ND				
Antimony, total	ug/L	GU-3	12/08/2024	yes	2.0000	ND				
Antimony, total	ug/L	GU-3	03/24/2025		2.0000	ND				
Arsenic, total	ug/L	GU-3	09/13/2021	yes	6.1000					
Arsenic, total	ug/L	GU-3	12/03/2021	yes	9.1000					
Arsenic, total	ug/L	GU-3	03/28/2022	yes	6.0000					
Arsenic, total	ug/L	GU-3	09/15/2022	yes	6.3000					
Arsenic, total	ug/L	GU-3	09/30/2024	yes	4.0000	ND				
Arsenic, total	ug/L	GU-3	12/08/2024	yes	4.0000	ND				
Arsenic, total	ug/L	GU-3	03/24/2025		4.0000	ND		5.9167		
Barium, total	ug/L	GU-3	09/13/2021	yes	478.0000					
Barium, total	ug/L	GU-3	12/03/2021	yes	415.0000					
Barium, total	ug/L	GU-3	09/15/2022	yes	365.0000					
Barium, total	ug/L	GU-3	09/30/2024	yes	488.0000					
Barium, total	ug/L	GU-3	12/08/2024	yes	683.0000					
Barium, total	ug/L	GU-3	03/24/2025		719.0000			598.0054		
Beryllium, total	ug/L	GU-3	09/13/2021	yes	4.0000	ND				
Beryllium, total	ug/L	GU-3	12/03/2021	yes	4.0000	ND				
Beryllium, total	ug/L	GU-3	03/28/2022	yes	4.0000	ND				
Beryllium, total	ug/L	GU-3	09/15/2022	yes	4.0000	ND				
Beryllium, total	ug/L	GU-3	09/30/2024	yes	4.0000	ND				
Beryllium, total	ug/L	GU-3	12/08/2024	yes	4.0000	ND				
Beryllium, total	ug/L	GU-3	03/24/2025		4.0000	ND				
Cadmium, total	ug/L	GU-3	09/13/2021	yes	0.8000	ND				
Cadmium, total	ug/L	GU-3	12/03/2021	yes	0.8000	ND				
Cadmium, total	ug/L	GU-3	03/28/2022	yes	0.8000	ND				
Cadmium, total	ug/L	GU-3	09/15/2022	yes	0.8000	ND				
Cadmium, total	ug/L	GU-3	09/30/2024	yes	0.8000	ND				
Cadmium, total	ug/L	GU-3	12/08/2024	yes	0.8000	ND				
Cadmium, total	ug/L	GU-3	03/24/2025		0.8000	ND				
Chromium, total	ug/L	GU-3	09/13/2021	yes	8.0000	ND				
Chromium, total	ug/L	GU-3	12/03/2021	yes	8.0000	ND				
Chromium, total	ug/L	GU-3	09/15/2022	yes	8.0000	ND				
Chromium, total	ug/L	GU-3	09/30/2024	yes	8.0000	ND				
Chromium, total	ug/L	GU-3	12/08/2024	yes	8.0000	ND				
Chromium, total	ug/L	GU-3	03/24/2025		8.0000	ND				
Cobalt, total	ug/L	GU-3	09/13/2021	yes	4.5000					
Cobalt, total	ug/L	GU-3	12/03/2021	yes	2.7000					
Cobalt, total	ug/L	GU-3	03/28/2022	yes	1.4000					
Cobalt, total	ug/L	GU-3	09/15/2022	yes	2.8000					
Cobalt, total	ug/L	GU-3	09/30/2024	yes	0.4000	ND				
Cobalt, total	ug/L	GU-3	12/08/2024	yes	0.4000	ND				
Cobalt, total	ug/L	GU-3	03/24/2025		0.4000	ND		2.0333		
Copper, total	ug/L	GU-3	09/13/2021	yes	6.5000					
Copper, total	ug/L	GU-3	12/03/2021	yes	4.0000	ND				
Copper, total	ug/L	GU-3	03/28/2022	yes	4.0000	ND				
Copper, total	ug/L	GU-3	09/15/2022	yes	4.0000	ND				

* - Outlier for that well and constituent.

** - Non-outlier detected sample Result and / or CUSUM value exceeds limit.

*** - ND value replaced with median RL.

**** - ND value replaced with manual RL.

ND = Not detected, Result = detection limit.

Table 2

Analytical Data and CUSUM Summary

Constituent	Units	Well	Date	Background	Result		Outlier	CUSUM	Adjusted	
Copper, total	ug/L	GU-3	09/30/2024	yes	4.0000	ND				
Copper, total	ug/L	GU-3	12/08/2024	yes	4.0000	ND				
Copper, total	ug/L	GU-3	03/24/2025		4.0000	ND				
Lead, total	ug/L	GU-3	09/13/2021	yes	5.1000					
Lead, total	ug/L	GU-3	12/03/2021	yes	4.0000	ND				
Lead, total	ug/L	GU-3	03/28/2022	yes	4.0000	ND				
Lead, total	ug/L	GU-3	09/15/2022	yes	4.0000	ND				
Lead, total	ug/L	GU-3	09/30/2024	yes	4.0000	ND				
Lead, total	ug/L	GU-3	12/08/2024	yes	4.0000	ND				
Lead, total	ug/L	GU-3	03/24/2025		4.0000	ND				
Nickel, total	ug/L	GU-3	09/13/2021	yes	15.2000					
Nickel, total	ug/L	GU-3	12/03/2021	yes	12.4000					
Nickel, total	ug/L	GU-3	03/28/2022	yes	12.7000					
Nickel, total	ug/L	GU-3	09/15/2022	yes	21.1000					
Nickel, total	ug/L	GU-3	09/30/2024	yes	36.8000					
Nickel, total	ug/L	GU-3	12/08/2024	yes	23.5000					
Nickel, total	ug/L	GU-3	03/24/2025		30.6000			21.3338		
Selenium, total	ug/L	GU-3	09/13/2021	yes	4.0000	ND				
Selenium, total	ug/L	GU-3	12/03/2021	yes	4.0000	ND				
Selenium, total	ug/L	GU-3	03/28/2022	yes	4.0000	ND				
Selenium, total	ug/L	GU-3	09/15/2022	yes	4.0000	ND				
Selenium, total	ug/L	GU-3	09/30/2024	yes	4.0000	ND				
Selenium, total	ug/L	GU-3	12/08/2024	yes	4.0000	ND				
Selenium, total	ug/L	GU-3	03/24/2025		4.0000	ND				
Silver, total	ug/L	GU-3	09/13/2021	yes	4.0000	ND				
Silver, total	ug/L	GU-3	12/03/2021	yes	4.0000	ND				
Silver, total	ug/L	GU-3	09/15/2022	yes	4.0000	ND				
Silver, total	ug/L	GU-3	09/30/2024	yes	4.0000	ND				
Silver, total	ug/L	GU-3	12/08/2024	yes	4.0000	ND				
Silver, total	ug/L	GU-3	03/24/2025		4.0000	ND				
Thallium, total	ug/L	GU-3	09/13/2021	yes	2.0000	ND				
Thallium, total	ug/L	GU-3	12/03/2021	yes	2.0000	ND				
Thallium, total	ug/L	GU-3	09/15/2022	yes	2.0000	ND				
Thallium, total	ug/L	GU-3	09/30/2024	yes	2.0000	ND				
Thallium, total	ug/L	GU-3	12/08/2024	yes	2.0000	ND				
Thallium, total	ug/L	GU-3	03/24/2025		2.0000	ND				
Vanadium, total	ug/L	GU-3	09/13/2021	yes	20.0000	ND				
Vanadium, total	ug/L	GU-3	12/03/2021	yes	20.0000	ND				
Vanadium, total	ug/L	GU-3	03/28/2022	yes	20.0000	ND				
Vanadium, total	ug/L	GU-3	09/15/2022	yes	20.0000	ND				
Vanadium, total	ug/L	GU-3	09/30/2024	yes	20.0000	ND				
Vanadium, total	ug/L	GU-3	12/08/2024	yes	20.0000	ND				
Vanadium, total	ug/L	GU-3	03/24/2025		20.0000	ND				
Zinc, total	ug/L	GU-3	09/13/2021	yes	32.9000					
Zinc, total	ug/L	GU-3	12/03/2021	yes	20.0000	ND				
Zinc, total	ug/L	GU-3	03/28/2022	yes	20.0000	ND				
Zinc, total	ug/L	GU-3	09/15/2022	yes	20.0000	ND				
Zinc, total	ug/L	GU-3	09/30/2024	yes	20.0000	ND				
Zinc, total	ug/L	GU-3	12/08/2024	yes	20.0000	ND				
Zinc, total	ug/L	GU-3	03/24/2025		20.0000	ND				

* - Outlier for that well and constituent.

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*** - ND value replaced with median RL.

**** - ND value replaced with manual RL.

ND = Not detected, Result = detection limit.

Table 2

Analytical Data and CUSUM Summary

Constituent	Units	Well	Date	Background	Result		Outlier	CUSUM	Adjusted	
Antimony, total	ug/L	GU-4	08/30/2021	yes	2.0000	ND				
Antimony, total	ug/L	GU-4	09/14/2022	yes	2.0000	ND				
Antimony, total	ug/L	GU-4	03/20/2023	yes	2.0000	ND				
Antimony, total	ug/L	GU-4	09/12/2023	yes	2.0000	ND				
Antimony, total	ug/L	GU-4	03/12/2024	yes	2.0000	ND				
Antimony, total	ug/L	GU-4	11/25/2024	yes	2.0000	ND				
Antimony, total	ug/L	GU-4	03/24/2025		1.0000	ND				
Arsenic, total	ug/L	GU-4	08/30/2021	yes	4.0000	ND				
Arsenic, total	ug/L	GU-4	03/28/2022	yes	27.3000		yes			*
Arsenic, total	ug/L	GU-4	06/24/2022	yes	4.0000	ND				
Arsenic, total	ug/L	GU-4	09/14/2022	yes	4.0000	ND				
Arsenic, total	ug/L	GU-4	03/20/2023	yes	5.6000					
Arsenic, total	ug/L	GU-4	09/12/2023	yes	5.9000					
Arsenic, total	ug/L	GU-4	03/12/2024	yes	4.0000	ND				
Arsenic, total	ug/L	GU-4	11/25/2024	yes	5.1000					
Arsenic, total	ug/L	GU-4	03/24/2025		2.3000			4.6571		
Barium, total	ug/L	GU-4	08/30/2021	yes	441.0000					
Barium, total	ug/L	GU-4	09/14/2022	yes	483.0000					
Barium, total	ug/L	GU-4	03/20/2023	yes	465.0000					
Barium, total	ug/L	GU-4	09/12/2023	yes	501.0000					
Barium, total	ug/L	GU-4	03/12/2024	yes	368.0000					
Barium, total	ug/L	GU-4	11/25/2024	yes	415.0000					
Barium, total	ug/L	GU-4	03/24/2025		350.0000			445.5000		
Beryllium, total	ug/L	GU-4	08/30/2021	yes	4.0000	ND				
Beryllium, total	ug/L	GU-4	03/28/2022	yes	4.0000	ND				
Beryllium, total	ug/L	GU-4	06/24/2022	yes	4.0000	ND				
Beryllium, total	ug/L	GU-4	09/14/2022	yes	4.0000	ND				
Beryllium, total	ug/L	GU-4	03/20/2023	yes	4.0000	ND				
Beryllium, total	ug/L	GU-4	09/12/2023	yes	4.0000	ND				
Beryllium, total	ug/L	GU-4	03/12/2024	yes	4.0000	ND				
Beryllium, total	ug/L	GU-4	11/25/2024	yes	4.0000	ND				
Beryllium, total	ug/L	GU-4	03/24/2025		0.5000	ND				
Cadmium, total	ug/L	GU-4	08/30/2021	yes	0.8000	ND				
Cadmium, total	ug/L	GU-4	03/28/2022	yes	1.2000					
Cadmium, total	ug/L	GU-4	06/24/2022	yes	0.8000	ND				
Cadmium, total	ug/L	GU-4	09/14/2022	yes	0.8000	ND				
Cadmium, total	ug/L	GU-4	03/20/2023	yes	0.8000	ND				
Cadmium, total	ug/L	GU-4	09/12/2023	yes	0.8000	ND				
Cadmium, total	ug/L	GU-4	03/12/2024	yes	0.8000	ND				
Cadmium, total	ug/L	GU-4	11/25/2024	yes	0.8000	ND				
Cadmium, total	ug/L	GU-4	03/24/2025		0.2000					
Chromium, total	ug/L	GU-4	08/30/2021	yes	8.0000	ND				
Chromium, total	ug/L	GU-4	09/14/2022	yes	8.0000	ND				
Chromium, total	ug/L	GU-4	03/20/2023	yes	8.0000	ND				
Chromium, total	ug/L	GU-4	09/12/2023	yes	8.0000	ND				
Chromium, total	ug/L	GU-4	03/12/2024	yes	8.0000	ND				
Chromium, total	ug/L	GU-4	11/25/2024	yes	8.0000	ND				
Chromium, total	ug/L	GU-4	03/24/2025		7.6000					
Cobalt, total	ug/L	GU-4	08/30/2021	yes	1.3000					
Cobalt, total	ug/L	GU-4	03/28/2022	yes	24.9000					

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**** - ND value replaced with manual RL.

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Table 2

Analytical Data and CUSUM Summary

Constituent	Units	Well	Date	Background	Result		Outlier	CUSUM	Adjusted	
Cobalt, total	ug/L	GU-4	06/24/2022	yes	0.8000					
Cobalt, total	ug/L	GU-4	09/14/2022	yes	4.9000					
Cobalt, total	ug/L	GU-4	03/20/2023	yes	3.3000					
Cobalt, total	ug/L	GU-4	09/12/2023	yes	1.2000					
Cobalt, total	ug/L	GU-4	03/12/2024	yes	0.4000	ND				
Cobalt, total	ug/L	GU-4	11/25/2024	yes	0.6000					
Cobalt, total	ug/L	GU-4	03/24/2025		2.9000			4.6750		
Copper, total	ug/L	GU-4	08/30/2021	yes	4.0000	ND				
Copper, total	ug/L	GU-4	03/28/2022	yes	42.8000		yes			*
Copper, total	ug/L	GU-4	06/24/2022	yes	4.0000	ND				
Copper, total	ug/L	GU-4	09/14/2022	yes	4.0000	ND				
Copper, total	ug/L	GU-4	03/20/2023	yes	5.5000					
Copper, total	ug/L	GU-4	09/12/2023	yes	4.0000	ND				
Copper, total	ug/L	GU-4	03/12/2024	yes	4.0000	ND				
Copper, total	ug/L	GU-4	11/25/2024	yes	4.0000	ND				
Copper, total	ug/L	GU-4	03/24/2025		6.5000					
Lead, total	ug/L	GU-4	08/30/2021	yes	4.0000	ND				
Lead, total	ug/L	GU-4	03/28/2022	yes	22.5000		yes			*
Lead, total	ug/L	GU-4	06/24/2022	yes	4.0000	ND				
Lead, total	ug/L	GU-4	09/14/2022	yes	4.0000	ND				
Lead, total	ug/L	GU-4	03/20/2023	yes	4.0000	ND				
Lead, total	ug/L	GU-4	09/12/2023	yes	4.0000	ND				
Lead, total	ug/L	GU-4	03/12/2024	yes	4.0000	ND				
Lead, total	ug/L	GU-4	11/25/2024	yes	4.0000	ND				
Lead, total	ug/L	GU-4	03/24/2025		3.8000					
Nickel, total	ug/L	GU-4	08/30/2021	yes	4.0000	ND				
Nickel, total	ug/L	GU-4	03/28/2022	yes	93.2000					
Nickel, total	ug/L	GU-4	06/24/2022	yes	7.4000					
Nickel, total	ug/L	GU-4	09/14/2022	yes	4.3000					
Nickel, total	ug/L	GU-4	03/20/2023	yes	12.1000					
Nickel, total	ug/L	GU-4	09/12/2023	yes	4.4000					
Nickel, total	ug/L	GU-4	03/12/2024	yes	4.0000	ND				
Nickel, total	ug/L	GU-4	11/25/2024	yes	7.2000					
Nickel, total	ug/L	GU-4	03/24/2025		9.5000			17.0750		
Selenium, total	ug/L	GU-4	08/30/2021	yes	4.0000	ND				
Selenium, total	ug/L	GU-4	03/28/2022	yes	4.0000	ND				
Selenium, total	ug/L	GU-4	06/24/2022	yes	4.0000	ND				
Selenium, total	ug/L	GU-4	09/14/2022	yes	4.0000	ND				
Selenium, total	ug/L	GU-4	03/20/2023	yes	4.0000	ND				
Selenium, total	ug/L	GU-4	09/12/2023	yes	4.0000	ND				
Selenium, total	ug/L	GU-4	03/12/2024	yes	4.0000	ND				
Selenium, total	ug/L	GU-4	11/25/2024	yes	4.0000	ND				
Selenium, total	ug/L	GU-4	03/24/2025		2.0000	ND				
Silver, total	ug/L	GU-4	08/30/2021	yes	4.0000	ND				
Silver, total	ug/L	GU-4	09/14/2022	yes	4.0000	ND				
Silver, total	ug/L	GU-4	03/20/2023	yes	4.0000	ND				
Silver, total	ug/L	GU-4	09/12/2023	yes	4.0000	ND				
Silver, total	ug/L	GU-4	03/12/2024	yes	4.0000	ND				
Silver, total	ug/L	GU-4	11/25/2024	yes	4.0000	ND				
Silver, total	ug/L	GU-4	03/24/2025		5.0000	ND				

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**** - ND value replaced with manual RL.

ND = Not detected, Result = detection limit.

Table 2

Analytical Data and CUSUM Summary

Constituent	Units	Well	Date	Background	Result		Outlier	CUSUM	Adjusted	
Thallium, total	ug/L	GU-4	08/30/2021	yes	2.0000	ND				
Thallium, total	ug/L	GU-4	09/14/2022	yes	2.0000	ND				
Thallium, total	ug/L	GU-4	03/20/2023	yes	2.0000	ND				
Thallium, total	ug/L	GU-4	09/12/2023	yes	2.0000	ND				
Thallium, total	ug/L	GU-4	03/12/2024	yes	2.0000	ND				
Thallium, total	ug/L	GU-4	11/25/2024	yes	2.0000	ND				
Thallium, total	ug/L	GU-4	03/24/2025		0.5000	ND				
Vanadium, total	ug/L	GU-4	08/30/2021	yes	20.0000	ND	yes			*
Vanadium, total	ug/L	GU-4	03/28/2022	yes	69.3000					
Vanadium, total	ug/L	GU-4	06/24/2022	yes	20.0000	ND				
Vanadium, total	ug/L	GU-4	09/14/2022	yes	20.0000	ND				
Vanadium, total	ug/L	GU-4	03/20/2023	yes	20.0000	ND				
Vanadium, total	ug/L	GU-4	09/12/2023	yes	20.0000	ND				
Vanadium, total	ug/L	GU-4	03/12/2024	yes	20.0000	ND				
Vanadium, total	ug/L	GU-4	11/25/2024	yes	20.0000	ND				
Vanadium, total	ug/L	GU-4	03/24/2025		13.0000					
Zinc, total	ug/L	GU-4	08/30/2021	yes	131.0000	ND				
Zinc, total	ug/L	GU-4	03/28/2022	yes	1140.0000					
Zinc, total	ug/L	GU-4	06/24/2022	yes	61.3000					
Zinc, total	ug/L	GU-4	09/14/2022	yes	20.0000					
Zinc, total	ug/L	GU-4	03/20/2023	yes	131.0000					
Zinc, total	ug/L	GU-4	09/12/2023	yes	47.2000					
Zinc, total	ug/L	GU-4	03/12/2024	yes	70.7000					
Zinc, total	ug/L	GU-4	11/25/2024	yes	262.0000					
Zinc, total	ug/L	GU-4	03/24/2025		243.0000			232.9000		

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**** - ND value replaced with manual RL.

ND = Not detected, Result = detection limit.

Table 4

Dixon's Test Outliers
1% Significance Level

Constituent	Units	Well	Date	Result	ND Qualifier	Date Range	N	Critical Value
Arsenic, total	ug/L	GU-4	03/28/2022	27.3000		08/30/2021-11/25/2024	8	0.6808
Copper, total	ug/L	GU-4	03/28/2022	42.8000		08/30/2021-11/25/2024	8	0.6808
Lead, total	ug/L	GU-4	03/28/2022	22.5000		08/30/2021-11/25/2024	8	0.6808
Vanadium, total	ug/L	GU-4	03/28/2022	69.3000		08/30/2021-11/25/2024	8	0.6808

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.

Attachment E

Summary Table of Historical VOC Detections

Table 1

Historical Volatile Organic Compound Detections

Constituent	Well	Date	Identifier	Result	Limit	Units
1,4-dichlorobenzene	GU-3	12/08/2024		1.2	1.0	ug/L
1,4-dichlorobenzene	GU-3	3/24/2025		1.1	1.0	ug/L
Benzene	GU-3	9/13/2021		1.3	1.0	ug/L
Benzene	GU-3	12/03/2021		6.0	1.0	ug/L
Benzene	GU-3	3/28/2022		6.2	1.0	ug/L
Benzene	GU-3	9/15/2022		6.1	1.0	ug/L
Benzene	GU-3	9/30/2024		6.0	1.0	ug/L
Benzene	GU-3	12/08/2024		7.8	1.0	ug/L
Benzene	GU-3	3/24/2025		7.8	1.0	ug/L
Chlorobenzene	GU-3	3/28/2022		1.8	1.0	ug/L
Chlorobenzene	GU-3	9/15/2022		1.7	1.0	ug/L
Chlorobenzene	GU-3	9/30/2024		1.3	1.0	ug/L
Chlorobenzene	GU-3	12/08/2024		1.8	1.0	ug/L
Chlorobenzene	GU-3	3/24/2025		1.6	1.0	ug/L
Chloroethane	GU-3	9/13/2021		1.4	1.0	ug/L
Chloroethane	GU-3	12/03/2021		2.0	1.0	ug/L
Chloroethane	GU-3	9/15/2022		1.6	1.0	ug/L
Chloroethane	GU-3	9/30/2024		1.1	1.0	ug/L
Chloroethane	GU-3	12/08/2024		1.1	1.0	ug/L
Chloroethane	GU-3	3/24/2025		1.1	1.0	ug/L
Cis-1,2-dichloroethylene	GU-3	9/13/2021		1.0	1.0	ug/L
Cis-1,2-dichloroethylene	GU-3	12/03/2021		10.5	1.0	ug/L
Cis-1,2-dichloroethylene	GU-3	9/15/2022		11.9	1.0	ug/L
Cis-1,2-dichloroethylene	GU-3	9/30/2024		4.3	1.0	ug/L
Cis-1,2-dichloroethylene	GU-3	12/08/2024		6.0	1.0	ug/L
Cis-1,2-dichloroethylene	GU-3	3/24/2025		3.8	1.0	ug/L
Ethylbenzene	GU-3	9/15/2022		1.8	1.0	ug/L
Vinyl chloride	GU-3	12/03/2021		3.6	1.0	ug/L
Vinyl chloride	GU-3	3/28/2022		3.0	1.0	ug/L
Vinyl chloride	GU-3	9/15/2022		1.9	1.0	ug/L
Vinyl chloride	GU-3	9/30/2024		1.2	1.0	ug/L
Vinyl chloride	GU-3	12/08/2024		1.8	1.0	ug/L
Vinyl chloride	GU-3	3/24/2025		1.4	1.0	ug/L
Benzene	GU-4	3/28/2022		1.4	1.0	ug/L
Toluene	GU-4	9/14/2022		1.9	1.0	ug/L
Acetone	GWD-2	3/14/2008		35.5	10.0	ug/L
Benzene	GWD-2	3/14/2008		1.3	1.0	ug/L
Benzene	GWD-2	7/22/2008		1.1	1.0	ug/L
Benzene	GWD-2	9/12/2008		1.2	1.0	ug/L
Benzene	GWD-2	12/18/2008		1.1	1.0	ug/L
Benzene	GWD-2	3/04/2009		1.3	1.0	ug/L
Benzene	GWD-2	9/21/2010		1.6	1.0	ug/L
Bis(2-ethylhexyl) phthalate	GWD-2	10/01/2010		9	8	ug/L
Chloroethane	GWD-2	3/14/2008		1.2	1.0	ug/L
Chloroethane	GWD-2	7/22/2008		1.2	1.0	ug/L
Chloroethane	GWD-2	9/12/2008		1.3	1.0	ug/L
Chloroethane	GWD-2	12/18/2008		1.1	1.0	ug/L
Chloroethane	GWD-2	3/04/2009		1.1	1.0	ug/L
Chloroethane	GWD-2	7/01/2009		1.0	1.0	ug/L
Chloroethane	GWD-2	9/27/2009		2.2	1.0	ug/L
Chloroethane	GWD-2	3/24/2010		4.2	1.0	ug/L
Chloroethane	GWD-2	6/02/2010		7.5	1.0	ug/L
Chloroethane	GWD-2	7/15/2010		5.9	1.0	ug/L
Chloroethane	GWD-2	9/21/2010		24.8	1.0	ug/L
Vinyl chloride	GWD-2	3/14/2008		1.6	1.0	ug/L
Vinyl chloride	GWD-2	6/03/2008		1.0	1.0	ug/L
Vinyl chloride	GWD-2	7/22/2008		1.4	1.0	ug/L
Vinyl chloride	GWD-2	9/12/2008		1.5	1.0	ug/L
Vinyl chloride	GWD-2	12/18/2008		2.2	1.0	ug/L
Vinyl chloride	GWD-2	3/04/2009		2.1	1.0	ug/L
Vinyl chloride	GWD-2	5/05/2009		1.2	1.0	ug/L
Vinyl chloride	GWD-2	7/01/2009		1.1	1.0	ug/L
Vinyl chloride	GWD-2	9/27/2009		1.9	1.0	ug/L
Carbon disulfide	MW02-30A	6/07/2016		1.7	1.0	ug/L
2,4,6-tribromophenol	MW06-37	7/23/2008		96.8	8.0	ug/L
2,4,6-tribromophenol	MW06-37	9/12/2008		93.1	8.0	ug/L
2,4,6-tribromophenol	MW06-37	12/11/2008		83.5	8.0	ug/L
2,4,6-tribromophenol	MW06-38	7/23/2008		83.2	8.0	ug/L
2,4,6-tribromophenol	MW06-38	9/12/2008		93.7	8.0	ug/L
2,4,6-tribromophenol	MW06-38	12/11/2008		85.8	8.0	ug/L
2,4,6-tribromophenol	MW06-39	7/23/2008		78.9	8.0	ug/L
2,4,6-tribromophenol	MW06-39	9/12/2008		100.0	8.0	ug/L
2,4,6-tribromophenol	MW06-39	12/11/2008		92.0	8.0	ug/L
Bis(2-ethylhexyl) phthalate	MW09-42	9/24/2018		7	6	ug/L
Acetone	MW91-8	9/19/2017		12.4	10.0	ug/L
Trans-1,4-dichloro-2-butene	MW91-8	3/16/2016		33	5	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
1,1,1-trichloroethane	MW94-18	12/23/1994		2	1	ug/L
1,1,1-trichloroethane	MW94-18	3/17/1995		2	1	ug/L
1,1-dichloroethane	MW96-23	9/27/2013		1.3	1.0	ug/L
Bis(2-ethylhexyl) phthalate	MW96-23	3/07/2012		10	8	ug/L
1,1-dichloroethane	MW98-25	9/04/2020		1.1	1.0	ug/L
1,1-dichloroethane	MW98-25	3/09/2021		1.8	1.0	ug/L
1,1-dichloroethane	MW98-25	9/07/2021		2.3	1.0	ug/L
1,1-dichloroethane	MW98-25	3/28/2022		1.5	1.0	ug/L
1,1-dichloroethane	MW98-25	3/20/2023		1.7	1.0	ug/L
1,1-dichloroethane	MW98-25	9/12/2023		1.6	1.0	ug/L
1,1-dichloroethane	MW98-25	3/12/2024		1.1	1.0	ug/L
1,1-dichloroethane	MW98-25	9/30/2024		1.2	1.0	ug/L
1,1-dichloroethane	MW98-25	3/24/2025		1.0	1.0	ug/L
1,4-dichlorobenzene	MW98-25	9/20/2007		1.4	1.0	ug/L
1,4-dichlorobenzene	MW98-25	6/04/2008		1.4	1.0	ug/L
1,4-dichlorobenzene	MW98-25	7/23/2008		1.3	1.0	ug/L
1,4-dichlorobenzene	MW98-25	9/12/2008		1.3	1.0	ug/L
1,4-dichlorobenzene	MW98-25	12/11/2008		1.4	1.0	ug/L
1,4-dichlorobenzene	MW98-25	3/04/2009		1.1	1.0	ug/L
1,4-dichlorobenzene	MW98-25	3/04/2009		1.4	1.0	ug/L
1,4-dichlorobenzene	MW98-25	9/20/2009		1.7	1.0	ug/L
1,4-dichlorobenzene	MW98-25	3/26/2010		2.1	1.0	ug/L
1,4-dichlorobenzene	MW98-25	9/24/2010		2.6	1.0	ug/L
1,4-dichlorobenzene	MW98-25	9/14/2011		1.3	1.0	ug/L
1,4-dichlorobenzene	MW98-25	3/07/2012		1.8	1.0	ug/L
1,4-dichlorobenzene	MW98-25	9/08/2016		2.1	1.0	ug/L
1,4-dichlorobenzene	MW98-25	3/18/2017		2.0	1.0	ug/L
1,4-dichlorobenzene	MW98-25	9/19/2017		1.7	1.0	ug/L
1,4-dichlorobenzene	MW98-25	9/24/2018		2.9	1.0	ug/L
1,4-dichlorobenzene	MW98-25	9/04/2020		1.3	1.0	ug/L
1,4-dichlorobenzene	MW98-25	3/09/2021		1.1	1.0	ug/L
1,4-dichlorobenzene	MW98-25	9/07/2021		2.0	1.0	ug/L
1,4-dichlorobenzene	MW98-25	3/28/2022		1.2	1.0	ug/L
1,4-dichlorobenzene	MW98-25	3/20/2023		1.2	1.0	ug/L
1,4-dichlorobenzene	MW98-25	9/12/2023		2.4	1.0	ug/L
1,4-dichlorobenzene	MW98-25	3/12/2024		1.6	1.0	ug/L
1,4-dichlorobenzene	MW98-25	9/30/2024		1.8	1.0	ug/L
1,4-dichlorobenzene	MW98-25	3/24/2025		1.4	1.0	ug/L
2,4,6-tribromophenol	MW98-25	7/23/2008		105.0	8.0	ug/L
2,4,6-tribromophenol	MW98-25	9/12/2008		120.0	8.0	ug/L
2,4,6-tribromophenol	MW98-25	12/11/2008		97.1	8.0	ug/L
Acetone	MW98-25	6/04/2008		12.1	10.0	ug/L
Acetone	MW98-25	3/30/2011		54.0	10.0	ug/L
Acetone	MW98-25	3/07/2012		14.8	10.0	ug/L
Acetone	MW98-25	3/08/2018		46.5	10.0	ug/L
Benzene	MW98-25	3/09/2004		4.2	1.0	ug/L
Benzene	MW98-25	9/14/2004		3.3	1.0	ug/L
Benzene	MW98-25	3/30/2006		2.5	1.0	ug/L
Benzene	MW98-25	9/15/2006		2.0	1.0	ug/L
Benzene	MW98-25	9/20/2007		2.4	1.0	ug/L
Benzene	MW98-25	3/17/2008		6.0	1.0	ug/L
Benzene	MW98-25	6/04/2008		8.9	1.0	ug/L
Benzene	MW98-25	7/23/2008		5.5	1.0	ug/L
Benzene	MW98-25	9/12/2008		5.0	1.0	ug/L
Benzene	MW98-25	12/11/2008		7.6	1.0	ug/L
Benzene	MW98-25	3/04/2009		6.4	1.0	ug/L
Benzene	MW98-25	3/04/2009		6.5	1.0	ug/L
Benzene	MW98-25	9/20/2009		6.1	1.0	ug/L
Benzene	MW98-25	3/26/2010		6.4	1.0	ug/L
Benzene	MW98-25	9/24/2010		5.6	1.0	ug/L
Benzene	MW98-25	3/30/2011		4.7	1.0	ug/L
Benzene	MW98-25	9/14/2011		4.0	1.0	ug/L
Benzene	MW98-25	3/07/2012		5.8	1.0	ug/L
Benzene	MW98-25	9/27/2013		1.6	1.0	ug/L
Benzene	MW98-25	3/13/2014		1.0	1.0	ug/L
Benzene	MW98-25	9/18/2014		5.6	1.0	ug/L
Benzene	MW98-25	9/11/2015		1.3	1.0	ug/L
Benzene	MW98-25	9/08/2016		1.4	1.0	ug/L
Benzene	MW98-25	3/08/2018		1.9	1.0	ug/L
Benzene	MW98-25	3/09/2021		1.6	1.0	ug/L
Benzene	MW98-25	9/07/2021		2.7	1.0	ug/L
Benzene	MW98-25	3/28/2022		1.3	1.0	ug/L
Benzene	MW98-25	9/12/2023		1.4	1.0	ug/L
Beta-bhc	MW98-25	9/12/2008		.14	.05	ug/L
Beta-bhc	MW98-25	3/13/2014		.07	.05	ug/L
Bis(2-ethylhexyl) phthalate	MW98-25	12/11/2008		13	8	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
Bis(2-ethylhexyl) phthalate	MW98-25	9/27/2013		10	10	ug/L
Bis(2-ethylhexyl) phthalate	MW98-25	9/19/2017		6	6	ug/L
Chlorobenzene	MW98-25	3/17/2008		1.1	1.0	ug/L
Chlorobenzene	MW98-25	6/04/2008		2.8	1.0	ug/L
Chlorobenzene	MW98-25	7/23/2008		2.2	1.0	ug/L
Chlorobenzene	MW98-25	9/12/2008		2.4	1.0	ug/L
Chlorobenzene	MW98-25	12/11/2008		2.3	1.0	ug/L
Chlorobenzene	MW98-25	3/04/2009		1.9	1.0	ug/L
Chlorobenzene	MW98-25	3/04/2009		1.8	1.0	ug/L
Chlorobenzene	MW98-25	3/26/2010		1.4	1.0	ug/L
Chlorobenzene	MW98-25	9/24/2010		2.1	1.0	ug/L
Chlorobenzene	MW98-25	9/14/2011		1.2	1.0	ug/L
Chlorobenzene	MW98-25	3/07/2012		1.3	1.0	ug/L
Chlorobenzene	MW98-25	9/18/2014		1.3	1.0	ug/L
Chlorobenzene	MW98-25	9/07/2021		1.0	1.0	ug/L
Chlorobenzene	MW98-25	9/12/2023		1.3	1.0	ug/L
Chlorobenzene	MW98-25	9/30/2024		1.0	1.0	ug/L
Chloroethane	MW98-25	3/17/2008		4.2	1.0	ug/L
Chloroethane	MW98-25	6/04/2008		2.5	1.0	ug/L
Chloroethane	MW98-25	7/23/2008		2.1	1.0	ug/L
Chloroethane	MW98-25	9/12/2008		2.3	1.0	ug/L
Chloroethane	MW98-25	12/11/2008		2.2	1.0	ug/L
Chloroethane	MW98-25	3/04/2009		2.4	1.0	ug/L
Chloroethane	MW98-25	3/04/2009		2.5	1.0	ug/L
Chloroethane	MW98-25	9/20/2009		1.8	1.0	ug/L
Chloroethane	MW98-25	3/26/2010		2.0	1.0	ug/L
Chloroethane	MW98-25	9/24/2010		2.2	1.0	ug/L
Chloroethane	MW98-25	3/30/2011		1.2	1.0	ug/L
Chloroethane	MW98-25	9/14/2011		1.9	1.0	ug/L
Chloroethane	MW98-25	3/07/2012		2.2	1.0	ug/L
Chloroethane	MW98-25	9/12/2012		1.8	1.0	ug/L
Chloroethane	MW98-25	9/27/2013		1.9	1.0	ug/L
Chloroethane	MW98-25	3/13/2014		2.0	1.0	ug/L
Chloroethane	MW98-25	3/16/2016		1.9	1.0	ug/L
Chloroethane	MW98-25	9/08/2016		1.0	1.0	ug/L
Chloroethane	MW98-25	3/08/2018		1.1	1.0	ug/L
Chloroethane	MW98-25	9/07/2021		1.5	1.0	ug/L
Chloroethane	MW98-25	3/20/2023		1.7	1.0	ug/L
Chloroethane	MW98-25	9/12/2023		1.5	1.0	ug/L
Chloroethane	MW98-25	3/12/2024		1.4	1.0	ug/L
Chloroethane	MW98-25	9/30/2024		1.0	1.0	ug/L
Chloromethane	MW98-25	9/30/2024		1.8	1.0	ug/L
Cis-1,2-dichloroethylene	MW98-25	3/17/2008		8.9	1.0	ug/L
Cis-1,2-dichloroethylene	MW98-25	6/04/2008		6.1	1.0	ug/L
Cis-1,2-dichloroethylene	MW98-25	7/23/2008		6.2	1.0	ug/L
Cis-1,2-dichloroethylene	MW98-25	9/12/2008		6.9	1.0	ug/L
Cis-1,2-dichloroethylene	MW98-25	12/11/2008		5.4	1.0	ug/L
Cis-1,2-dichloroethylene	MW98-25	3/04/2009		5.0	1.0	ug/L
Cis-1,2-dichloroethylene	MW98-25	3/04/2009		5.2	1.0	ug/L
Cis-1,2-dichloroethylene	MW98-25	9/20/2009		5.8	1.0	ug/L
Cis-1,2-dichloroethylene	MW98-25	3/26/2010		4.6	1.0	ug/L
Cis-1,2-dichloroethylene	MW98-25	9/24/2010		7.0	1.0	ug/L
Cis-1,2-dichloroethylene	MW98-25	3/30/2011		6.4	1.0	ug/L
Cis-1,2-dichloroethylene	MW98-25	9/14/2011		6.1	1.0	ug/L
Cis-1,2-dichloroethylene	MW98-25	3/07/2012		6.7	1.0	ug/L
Cis-1,2-dichloroethylene	MW98-25	9/12/2012		3.4	1.0	ug/L
Cis-1,2-dichloroethylene	MW98-25	3/20/2013		2.9	1.0	ug/L
Cis-1,2-dichloroethylene	MW98-25	9/27/2013		4.1	1.0	ug/L
Cis-1,2-dichloroethylene	MW98-25	3/13/2014		4.8	1.0	ug/L
Cis-1,2-dichloroethylene	MW98-25	9/18/2014		4.5	1.0	ug/L
Cis-1,2-dichloroethylene	MW98-25	3/17/2015		5.1	1.0	ug/L
Cis-1,2-dichloroethylene	MW98-25	9/11/2015		1.4	1.0	ug/L
Cis-1,2-dichloroethylene	MW98-25	3/16/2016		5.1	1.0	ug/L
Cis-1,2-dichloroethylene	MW98-25	9/08/2016		2.9	1.0	ug/L
Cis-1,2-dichloroethylene	MW98-25	3/18/2017		2.1	1.0	ug/L
Cis-1,2-dichloroethylene	MW98-25	9/19/2017		1.3	1.0	ug/L
Cis-1,2-dichloroethylene	MW98-25	3/08/2018		2.5	1.0	ug/L
Cis-1,2-dichloroethylene	MW98-25	9/24/2018		2.3	1.0	ug/L
Cis-1,2-dichloroethylene	MW98-25	3/25/2019		1.0	1.0	ug/L
Cis-1,2-dichloroethylene	MW98-25	9/04/2020		2.0	1.0	ug/L
Cis-1,2-dichloroethylene	MW98-25	3/09/2021		2.5	1.0	ug/L
Cis-1,2-dichloroethylene	MW98-25	9/07/2021		3.4	1.0	ug/L
Cis-1,2-dichloroethylene	MW98-25	3/28/2022		2.5	1.0	ug/L
Cis-1,2-dichloroethylene	MW98-25	3/20/2023		2.3	1.0	ug/L
Cis-1,2-dichloroethylene	MW98-25	9/12/2023		2.8	1.0	ug/L
Cis-1,2-dichloroethylene	MW98-25	3/12/2024		1.4	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
Cis-1,2-dichloroethylene	MW98-25	9/30/2024		2.0	1.0	ug/L
Cis-1,2-dichloroethylene	MW98-25	3/24/2025		1.5	1.0	ug/L
Dichlorodifluoromethane	MW98-25	7/23/2008		6.2	1.0	ug/L
Dichlorodifluoromethane	MW98-25	9/12/2008		2.6	1.0	ug/L
Dichlorodifluoromethane	MW98-25	3/04/2009		21.6	1.0	ug/L
Dichlorodifluoromethane	MW98-25	9/27/2009		16.6	1.0	ug/L
Dichlorodifluoromethane	MW98-25	3/26/2010		34.6	1.0	ug/L
Dichlorodifluoromethane	MW98-25	9/24/2010		28.2	1.0	ug/L
Dichlorodifluoromethane	MW98-25	3/30/2011		32.0	1.0	ug/L
Dichlorodifluoromethane	MW98-25	9/14/2011		12.6	1.0	ug/L
Dichlorodifluoromethane	MW98-25	3/07/2012		34.5	1.0	ug/L
Dichlorodifluoromethane	MW98-25	9/12/2012		4.2	1.0	ug/L
Dichlorodifluoromethane	MW98-25	3/20/2013		13.0	1.0	ug/L
Dichlorodifluoromethane	MW98-25	9/27/2013		1.3	1.0	ug/L
Dichlorodifluoromethane	MW98-25	3/13/2014		1.5	1.0	ug/L
Dichlorodifluoromethane	MW98-25	9/18/2014		24.3	1.0	ug/L
Dichlorodifluoromethane	MW98-25	9/11/2015		14.7	1.0	ug/L
Dichlorodifluoromethane	MW98-25	9/08/2016		6.6	1.0	ug/L
Dichlorodifluoromethane	MW98-25	3/18/2017		18.8	1.0	ug/L
Dichlorodifluoromethane	MW98-25	9/19/2017		6.9	1.0	ug/L
Dichlorodifluoromethane	MW98-25	3/08/2018		38.4	1.0	ug/L
Dichlorodifluoromethane	MW98-25	9/24/2018		1.6	1.0	ug/L
Dichlorodifluoromethane	MW98-25	3/25/2019		3.8	1.0	ug/L
Dichlorodifluoromethane	MW98-25	3/23/2020		19.4	1.0	ug/L
Dichlorodifluoromethane	MW98-25	9/04/2020		1.2	1.0	ug/L
Dichlorodifluoromethane	MW98-25	3/09/2021		8.6	1.0	ug/L
Dichlorodifluoromethane	MW98-25	9/07/2021		4.8	1.0	ug/L
Dichlorodifluoromethane	MW98-25	3/28/2022		1.7	1.0	ug/L
Dichlorodifluoromethane	MW98-25	3/20/2023		3.3	1.0	ug/L
Dichlorodifluoromethane	MW98-25	9/12/2023		2.1	1.0	ug/L
Dichlorodifluoromethane	MW98-25	3/24/2025		2.0	1.0	ug/L
Ethylbenzene	MW98-25	6/04/2008		2.2	1.0	ug/L
Ethylbenzene	MW98-25	12/11/2008		1.8	1.0	ug/L
Ethylbenzene	MW98-25	9/20/2009		1.2	1.0	ug/L
Ethylbenzene	MW98-25	3/26/2010		2.6	1.0	ug/L
Toluene	MW98-25	6/04/2008		1.2	1.0	ug/L
Toluene	MW98-25	3/26/2010		1.2	1.0	ug/L
Toluene	MW98-25	9/24/2010		1.3	1.0	ug/L
Trichloroethylene	MW98-25	6/04/2008		1.2	1.0	ug/L
Trichlorofluoromethane	MW98-25	6/04/2008		28.7	1.0	ug/L
Trichlorofluoromethane	MW98-25	9/12/2008		2.4	1.0	ug/L
Trichlorofluoromethane	MW98-25	3/04/2009		16.0	1.0	ug/L
Trichlorofluoromethane	MW98-25	3/04/2009		16.4	1.0	ug/L
Trichlorofluoromethane	MW98-25	3/26/2010		27.0	1.0	ug/L
Trichlorofluoromethane	MW98-25	9/24/2010		12.1	1.0	ug/L
Trichlorofluoromethane	MW98-25	3/30/2011		19.3	1.0	ug/L
Trichlorofluoromethane	MW98-25	9/14/2011		5.0	1.0	ug/L
Trichlorofluoromethane	MW98-25	3/07/2012		16.4	1.0	ug/L
Trichlorofluoromethane	MW98-25	9/12/2012		1.0	1.0	ug/L
Trichlorofluoromethane	MW98-25	3/20/2013		6.2	1.0	ug/L
Trichlorofluoromethane	MW98-25	9/27/2013		1.9	1.0	ug/L
Trichlorofluoromethane	MW98-25	9/18/2014		3.2	1.0	ug/L
Trichlorofluoromethane	MW98-25	9/08/2016		4.4	1.0	ug/L
Trichlorofluoromethane	MW98-25	3/18/2017		4.3	1.0	ug/L
Trichlorofluoromethane	MW98-25	9/19/2017		1.6	1.0	ug/L
Trichlorofluoromethane	MW98-25	3/08/2018		2.5	1.0	ug/L
Trichlorofluoromethane	MW98-25	3/23/2020		6.0	1.0	ug/L
Trichlorofluoromethane	MW98-25	9/04/2020		1.0	1.0	ug/L
Trichlorofluoromethane	MW98-25	3/09/2021		2.6	1.0	ug/L
Trichlorofluoromethane	MW98-25	3/28/2022		1.0	1.0	ug/L
Trichlorofluoromethane	MW98-25	3/20/2023		1.2	1.0	ug/L
Trichlorofluoromethane	MW98-25	9/12/2023		1.1	1.0	ug/L
Trichlorofluoromethane	MW98-25	3/12/2024		1.0	1.0	ug/L
Vinyl chloride	MW98-25	3/17/2008		2.8	1.0	ug/L
Vinyl chloride	MW98-25	6/04/2008		2.8	1.0	ug/L
Vinyl chloride	MW98-25	7/23/2008		1.9	1.0	ug/L
Vinyl chloride	MW98-25	12/11/2008		2.4	1.0	ug/L
Vinyl chloride	MW98-25	3/04/2009		2.5	1.0	ug/L
Vinyl chloride	MW98-25	3/04/2009		2.3	1.0	ug/L
Vinyl chloride	MW98-25	3/26/2010		1.6	1.0	ug/L
Vinyl chloride	MW98-25	9/24/2010		1.7	1.0	ug/L
Vinyl chloride	MW98-25	3/30/2011		1.5	1.0	ug/L
Vinyl chloride	MW98-25	9/14/2011		1.0	1.0	ug/L
Vinyl chloride	MW98-25	3/07/2012		1.4	1.0	ug/L
Xylenes, total	MW98-25	6/04/2008		5.5	2.0	ug/L
Xylenes, total	MW98-25	7/23/2008		2.5	2.0	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
2-butanone (mek)	PEC-3	12/08/2024		606	20	ug/L
Acetone	PEC-3	12/08/2024		508	20	ug/L
Benzene	PEC-3	3/28/2022		1.5	1.0	ug/L
Cis-1,2-dichloroethylene	PEC-3	3/28/2022		3.2	1.0	ug/L
Cis-1,2-dichloroethylene	PEC-3	3/24/2025		1.4	1.0	ug/L
Toluene	PEC-3	12/08/2024		2	2	ug/L
1,1-dichloroethane	Sramp 1	9/21/2009		1.1	1.0	ug/L
1,1-dichloroethane	Sramp 1	3/30/2011		1.0	1.0	ug/L
1,1-dichloroethane	Sramp 1	3/09/2021		2.6	1.0	ug/L
1,1-dichloroethane	Sramp 1	3/28/2022		1.4	1.0	ug/L
1,1-dichloroethane	Sramp 1	3/20/2023		1.4	1.0	ug/L
1,1-dichloroethylene	Sramp 1	12/12/2008		1	1	ug/L
1,2,4-trichlorobenzene	Sramp 1	9/21/2009		5.2	1.0	ug/L
1,4-dichlorobenzene	Sramp 1	7/21/2008		1.8	1.0	ug/L
1,4-dichlorobenzene	Sramp 1	9/12/2008		1.8	1.0	ug/L
1,4-dichlorobenzene	Sramp 1	12/12/2008		1.6	1.0	ug/L
1,4-dichlorobenzene	Sramp 1	3/04/2009		1.4	1.0	ug/L
1,4-dichlorobenzene	Sramp 1	9/21/2009		2.8	1.0	ug/L
1,4-dichlorobenzene	Sramp 1	9/24/2010		3.4	1.0	ug/L
1,4-dichlorobenzene	Sramp 1	3/30/2011		3.5	1.0	ug/L
1,4-dichlorobenzene	Sramp 1	9/14/2011		2.7	1.0	ug/L
1,4-dichlorobenzene	Sramp 1	3/07/2012		1.3	1.0	ug/L
1,4-dichlorobenzene	Sramp 1	3/20/2013		4.0	1.0	ug/L
1,4-dichlorobenzene	Sramp 1	9/26/2013		3.3	1.0	ug/L
1,4-dichlorobenzene	Sramp 1	3/17/2015		2.2	1.0	ug/L
1,4-dichlorobenzene	Sramp 1	9/11/2015		6.4	1.0	ug/L
1,4-dichlorobenzene	Sramp 1	3/16/2016		3.9	1.0	ug/L
1,4-dichlorobenzene	Sramp 1	9/08/2016		4.6	1.0	ug/L
1,4-dichlorobenzene	Sramp 1	3/18/2017		2.7	1.0	ug/L
1,4-dichlorobenzene	Sramp 1	3/09/2021		5.8	1.0	ug/L
1,4-dichlorobenzene	Sramp 1	3/28/2022		5.0	1.0	ug/L
1,4-dichlorobenzene	Sramp 1	3/20/2023		6.5	1.0	ug/L
1,4-dichlorobenzene	Sramp 1	3/24/2025		9.1	1.0	ug/L
Acetone	Sramp 1	3/30/2011		40.1	10.0	ug/L
Acetone	Sramp 1	3/16/2016		82.1	10.0	ug/L
Acetone	Sramp 1	3/25/2019		19.3	10.0	ug/L
Acetone	Sramp 1	3/28/2022		23.5	10.0	ug/L
Benzene	Sramp 1	7/21/2008		4.7	1.0	ug/L
Benzene	Sramp 1	9/12/2008		3.6	1.0	ug/L
Benzene	Sramp 1	3/04/2009		1.3	1.0	ug/L
Benzene	Sramp 1	9/21/2009		7.6	1.0	ug/L
Benzene	Sramp 1	9/24/2010		4.2	1.0	ug/L
Benzene	Sramp 1	3/30/2011		5.8	1.0	ug/L
Benzene	Sramp 1	3/20/2013		3.5	1.0	ug/L
Benzene	Sramp 1	9/26/2013		6.0	1.0	ug/L
Benzene	Sramp 1	3/17/2015		2.6	1.0	ug/L
Benzene	Sramp 1	9/11/2015		6.2	1.0	ug/L
Benzene	Sramp 1	3/16/2016		5.0	1.0	ug/L
Benzene	Sramp 1	9/08/2016		2.2	1.0	ug/L
Benzene	Sramp 1	3/18/2017		2.0	1.0	ug/L
Benzene	Sramp 1	3/25/2019		1.2	1.0	ug/L
Benzene	Sramp 1	9/03/2019		1.2	1.0	ug/L
Benzene	Sramp 1	3/09/2021		5.7	1.0	ug/L
Benzene	Sramp 1	3/28/2022		4.8	1.0	ug/L
Benzene	Sramp 1	3/20/2023		5.7	1.0	ug/L
Benzene	Sramp 1	3/24/2025		5.6	1.0	ug/L
Chlorobenzene	Sramp 1	7/21/2008		1.6	1.0	ug/L
Chlorobenzene	Sramp 1	9/12/2008		1.8	1.0	ug/L
Chlorobenzene	Sramp 1	9/21/2009		2.8	1.0	ug/L
Chlorobenzene	Sramp 1	9/24/2010		1.5	1.0	ug/L
Chlorobenzene	Sramp 1	3/30/2011		1.5	1.0	ug/L
Chlorobenzene	Sramp 1	3/20/2013		1.1	1.0	ug/L
Chlorobenzene	Sramp 1	9/26/2013		2.1	1.0	ug/L
Chlorobenzene	Sramp 1	9/11/2015		2.4	1.0	ug/L
Chlorobenzene	Sramp 1	3/16/2016		1.9	1.0	ug/L
Chlorobenzene	Sramp 1	9/08/2016		1.4	1.0	ug/L
Chlorobenzene	Sramp 1	3/18/2017		1.1	1.0	ug/L
Chlorobenzene	Sramp 1	3/25/2019		1.5	1.0	ug/L
Chlorobenzene	Sramp 1	3/09/2021		1.7	1.0	ug/L
Chlorobenzene	Sramp 1	3/28/2022		1.4	1.0	ug/L
Chlorobenzene	Sramp 1	3/20/2023		1.7	1.0	ug/L
Chlorobenzene	Sramp 1	3/24/2025		2.4	1.0	ug/L
Chloroethane	Sramp 1	7/21/2008		1.5	1.0	ug/L
Chloroethane	Sramp 1	9/12/2008		1.0	1.0	ug/L
Chloroethane	Sramp 1	3/04/2009		1.4	1.0	ug/L
Chloroethane	Sramp 1	9/21/2009		1.4	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
Chloroethane	Sramp 1	3/30/2011		1.3	1.0	ug/L
Chloroethane	Sramp 1	9/14/2011		1.2	1.0	ug/L
Chloroethane	Sramp 1	9/26/2013		2.2	1.0	ug/L
Chloroethane	Sramp 1	9/11/2015		1.4	1.0	ug/L
Chloroethane	Sramp 1	3/16/2016		1.9	1.0	ug/L
Chloroethane	Sramp 1	9/08/2016		2.0	1.0	ug/L
Chloroethane	Sramp 1	3/18/2017		1.6	1.0	ug/L
Chloroethane	Sramp 1	3/25/2019		2.6	1.0	ug/L
Chloroethane	Sramp 1	9/03/2019		2.5	1.0	ug/L
Chloroethane	Sramp 1	3/09/2021		2.6	1.0	ug/L
Chloroethane	Sramp 1	3/28/2022		1.6	1.0	ug/L
Chloroethane	Sramp 1	3/20/2023		2.0	1.0	ug/L
Chloroethane	Sramp 1	3/24/2025		1.6	1.0	ug/L
Cis-1,2-dichloroethylene	Sramp 1	7/21/2008		3.1	1.0	ug/L
Cis-1,2-dichloroethylene	Sramp 1	9/12/2008		2.5	1.0	ug/L
Cis-1,2-dichloroethylene	Sramp 1	12/12/2008		1.7	1.0	ug/L
Cis-1,2-dichloroethylene	Sramp 1	3/04/2009		1.8	1.0	ug/L
Cis-1,2-dichloroethylene	Sramp 1	9/21/2009		2.9	1.0	ug/L
Cis-1,2-dichloroethylene	Sramp 1	9/24/2010		2.3	1.0	ug/L
Cis-1,2-dichloroethylene	Sramp 1	3/30/2011		3.6	1.0	ug/L
Cis-1,2-dichloroethylene	Sramp 1	9/14/2011		2.4	1.0	ug/L
Cis-1,2-dichloroethylene	Sramp 1	3/20/2013		2.3	1.0	ug/L
Cis-1,2-dichloroethylene	Sramp 1	9/26/2013		3.3	1.0	ug/L
Cis-1,2-dichloroethylene	Sramp 1	3/17/2015		1.4	1.0	ug/L
Cis-1,2-dichloroethylene	Sramp 1	9/11/2015		2.7	1.0	ug/L
Cis-1,2-dichloroethylene	Sramp 1	3/16/2016		2.5	1.0	ug/L
Cis-1,2-dichloroethylene	Sramp 1	9/08/2016		2.8	1.0	ug/L
Cis-1,2-dichloroethylene	Sramp 1	3/18/2017		2.1	1.0	ug/L
Cis-1,2-dichloroethylene	Sramp 1	3/25/2019		4.0	1.0	ug/L
Cis-1,2-dichloroethylene	Sramp 1	9/03/2019		2.4	1.0	ug/L
Cis-1,2-dichloroethylene	Sramp 1	3/09/2021		4.4	1.0	ug/L
Cis-1,2-dichloroethylene	Sramp 1	3/28/2022		3.0	1.0	ug/L
Cis-1,2-dichloroethylene	Sramp 1	3/20/2023		3.0	1.0	ug/L
Cis-1,2-dichloroethylene	Sramp 1	3/24/2025		2.5	1.0	ug/L
Dichlorodifluoromethane	Sramp 1	9/21/2009		20.4	1.0	ug/L
Dichlorodifluoromethane	Sramp 1	9/24/2010		7.6	1.0	ug/L
Dichlorodifluoromethane	Sramp 1	3/07/2012		1.1	1.0	ug/L
Dichlorodifluoromethane	Sramp 1	9/12/2012		2.2	1.0	ug/L
Dichlorodifluoromethane	Sramp 1	3/20/2013		9.5	1.0	ug/L
Dichlorodifluoromethane	Sramp 1	9/26/2013		20.3	1.0	ug/L
Dichlorodifluoromethane	Sramp 1	3/17/2015		16.7	1.0	ug/L
Dichlorodifluoromethane	Sramp 1	9/11/2015		40.6	1.0	ug/L
Dichlorodifluoromethane	Sramp 1	3/16/2016		16.5	1.0	ug/L
Dichlorodifluoromethane	Sramp 1	9/08/2016		40.7	1.0	ug/L
Dichlorodifluoromethane	Sramp 1	3/18/2017		34.8	1.0	ug/L
Dichlorodifluoromethane	Sramp 1	9/19/2017		3.1	1.0	ug/L
Dichlorodifluoromethane	Sramp 1	3/25/2019		38.4	1.0	ug/L
Dichlorodifluoromethane	Sramp 1	3/09/2021		50.7	1.0	ug/L
Dichlorodifluoromethane	Sramp 1	3/28/2022		12.2	1.0	ug/L
Dichlorodifluoromethane	Sramp 1	3/20/2023		18.4	1.0	ug/L
Dichlorodifluoromethane	Sramp 1	3/24/2025		16.9	1.0	ug/L
Ethylbenzene	Sramp 1	7/21/2008		2.6	1.0	ug/L
Ethylbenzene	Sramp 1	9/12/2008		2.0	1.0	ug/L
Ethylbenzene	Sramp 1	9/21/2009		7.7	1.0	ug/L
Ethylbenzene	Sramp 1	9/24/2010		2.7	1.0	ug/L
Ethylbenzene	Sramp 1	3/30/2011		2.3	1.0	ug/L
Ethylbenzene	Sramp 1	9/14/2011		1.8	1.0	ug/L
Ethylbenzene	Sramp 1	9/26/2013		3.5	1.0	ug/L
Ethylbenzene	Sramp 1	3/16/2016		2.1	1.0	ug/L
Ethylbenzene	Sramp 1	3/09/2021		1.9	1.0	ug/L
Trichlorofluoromethane	Sramp 1	7/21/2008		26.0	1.0	ug/L
Trichlorofluoromethane	Sramp 1	9/12/2008		12.7	1.0	ug/L
Trichlorofluoromethane	Sramp 1	12/12/2008		17.7	1.0	ug/L
Trichlorofluoromethane	Sramp 1	3/04/2009		26.8	1.0	ug/L
Trichlorofluoromethane	Sramp 1	9/21/2009		14.1	1.0	ug/L
Trichlorofluoromethane	Sramp 1	9/24/2010		3.0	1.0	ug/L
Trichlorofluoromethane	Sramp 1	3/30/2011		7.3	1.0	ug/L
Trichlorofluoromethane	Sramp 1	9/14/2011		2.8	1.0	ug/L
Trichlorofluoromethane	Sramp 1	3/20/2013		4.0	1.0	ug/L
Trichlorofluoromethane	Sramp 1	9/26/2013		3.0	1.0	ug/L
Trichlorofluoromethane	Sramp 1	9/11/2015		7.3	1.0	ug/L
Trichlorofluoromethane	Sramp 1	3/16/2016		39.1	1.0	ug/L
Trichlorofluoromethane	Sramp 1	9/08/2016		24.2	1.0	ug/L
Trichlorofluoromethane	Sramp 1	3/18/2017		17.9	1.0	ug/L
Trichlorofluoromethane	Sramp 1	9/19/2017		2.1	1.0	ug/L
Trichlorofluoromethane	Sramp 1	3/25/2019		22.5	1.0	ug/L

Detections are shown for the constituents and sample points selected for the analysis
The Limit column refers to the laboratory reporting limit

Table 1

Historical Volatile Organic Compound Detections

Constituent	Well	Date	Identifier	Result	Limit	Units
Trichlorofluoromethane	Sramp 1	3/09/2021		28.0	1.0	ug/L
Trichlorofluoromethane	Sramp 1	3/28/2022		8.1	1.0	ug/L
Trichlorofluoromethane	Sramp 1	3/20/2023		9.1	1.0	ug/L
Trichlorofluoromethane	Sramp 1	3/24/2025		11.1	1.0	ug/L
Vinyl chloride	Sramp 1	7/21/2008		1.1	1.0	ug/L
Vinyl chloride	Sramp 1	9/12/2008		1.0	1.0	ug/L
Vinyl chloride	Sramp 1	12/12/2008		1.0	1.0	ug/L
Vinyl chloride	Sramp 1	3/04/2009		1.0	1.0	ug/L
Xylenes, total	Sramp 1	7/21/2008		3.4	2.0	ug/L
Xylenes, total	Sramp 1	9/12/2008		2.8	2.0	ug/L
Xylenes, total	Sramp 1	12/12/2008		2.3	2.0	ug/L
Xylenes, total	Sramp 1	9/21/2009		5.9	2.0	ug/L
Xylenes, total	Sramp 1	9/24/2010		5.7	2.0	ug/L
Xylenes, total	Sramp 1	9/14/2011		3.2	2.0	ug/L
Xylenes, total	Sramp 1	9/26/2013		3.4	2.0	ug/L
Xylenes, total	Sramp 1	3/16/2016		2.4	2.0	ug/L
Acetone	SRAMP 2	3/13/2014		82.2	10.0	ug/L
Ethylbenzene	SRAMP 2	9/24/2018		1.5	1.0	ug/L
Xylenes, total	SRAMP 2	9/24/2018		8.1	2.0	ug/L

Detections are shown for the constituents and sample points selected for the analysis
The Limit column refers to the laboratory reporting limit

Attachment F

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	GU-3	4	0.500	0.000	1.176	0.500	0.500	140.000		
1,4-dichlorobenzene	ug/L	GU-3	4	0.825	0.377	1.176	0.381	1.269	75.000		**
Benzene	ug/L	GU-3	4	6.925	1.011	1.176	5.736	8.114	5.000		
Chlorobenzene	ug/L	GU-3	4	1.600	0.216	1.176	1.346	1.854	100.000		
Chloroethane	ug/L	GU-3	4	1.225	0.250	1.176	0.931	1.519	2800.000		
Chloromethane	ug/L	GU-3	4	0.500	0.000	1.176	0.500	0.500			
Cis-1,2-dichloroethylene	ug/L	GU-3	4	6.500	3.721	1.176	2.123	10.877	70.000		*
Dichlorodifluoromethane	ug/L	GU-3	0								
Trichlorofluoromethane	ug/L	GU-3	4	0.500	0.000	1.176	0.500	0.500	2000.000		
Vinyl chloride	ug/L	GU-3	4	1.575	0.330	1.176	1.186	1.964	2.000		
1,1-dichloroethane	ug/L	MW98-25	4	1.225	0.263	1.176	0.916	1.534	140.000		
1,4-dichlorobenzene	ug/L	MW98-25	4	1.800	0.432	1.176	1.292	2.308	75.000		
Benzene	ug/L	MW98-25	4	0.725	0.450	1.176	0.196	1.254	5.000		
Chlorobenzene	ug/L	MW98-25	4	0.825	0.395	1.176	0.361	1.289	100.000		
Chloroethane	ug/L	MW98-25	4	1.100	0.455	1.176	0.565	1.635	2800.000	dec	
Chloromethane	ug/L	MW98-25	4	0.825	0.650	1.176	0.060	1.590			
Cis-1,2-dichloroethylene	ug/L	MW98-25	4	1.925	0.640	1.176	1.173	2.677	70.000	dec	
Dichlorodifluoromethane	ug/L	MW98-25	4	1.275	0.896	1.176	0.221	2.329	1000.000		
Trichlorofluoromethane	ug/L	MW98-25	4	0.775	0.320	1.176	0.398	1.152	2000.000		
Vinyl chloride	ug/L	MW98-25	4	0.500	0.000	1.176	0.500	0.500	2.000		
1,1-dichloroethane	ug/L	Sramp 1	4	1.475	0.862	1.176	0.461	2.489	140.000		
1,4-dichlorobenzene	ug/L	Sramp 1	4	6.600	1.776	1.176	4.511	8.689	75.000		
Benzene	ug/L	Sramp 1	4	5.450	0.436	1.176	4.937	5.963	5.000		
Chlorobenzene	ug/L	Sramp 1	4	1.800	0.424	1.176	1.301	2.299	100.000		
Chloroethane	ug/L	Sramp 1	4	1.950	0.473	1.176	1.394	2.506	2800.000		
Chloromethane	ug/L	Sramp 1	4	0.500	0.000	1.176	0.500	0.500			
Cis-1,2-dichloroethylene	ug/L	Sramp 1	4	3.225	0.818	1.176	2.263	4.187	70.000		
Dichlorodifluoromethane	ug/L	Sramp 1	4	24.550	17.632	1.176	3.809	45.291	1000.000		
Trichlorofluoromethane	ug/L	Sramp 1	4	14.075	9.367	1.176	3.057	25.093	2000.000		
Vinyl chloride	ug/L	Sramp 1	4	0.500	0.000	1.176	0.500	0.500	2.000		

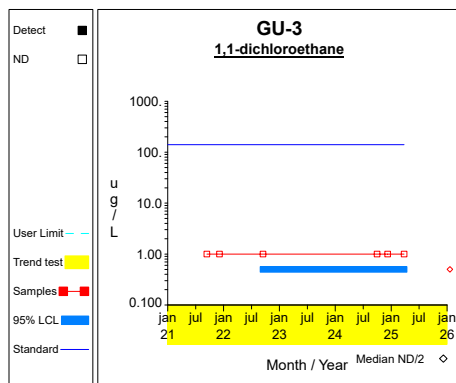
* - Insufficient Data

** - Significant Exceedance

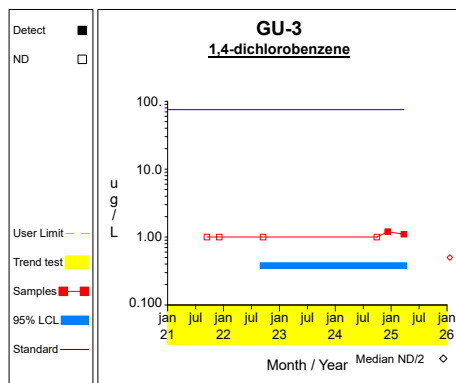
LCL = Lower Confidence Limit

UCL = Upper Confidence Limit

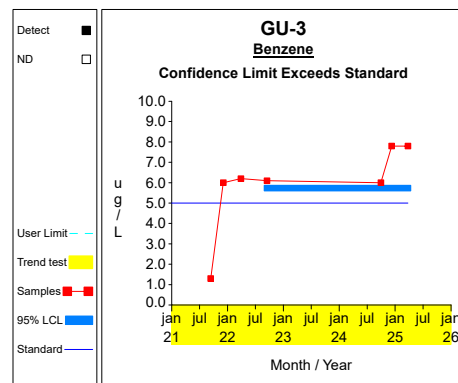
Confidence Limits (Assessment)



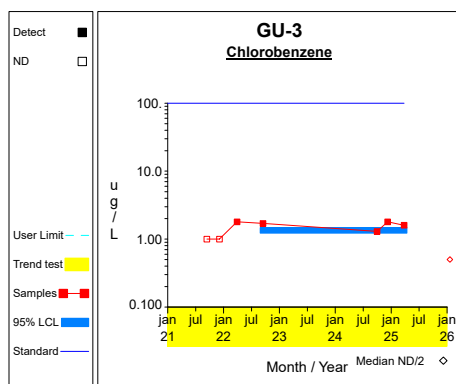
Graph 1



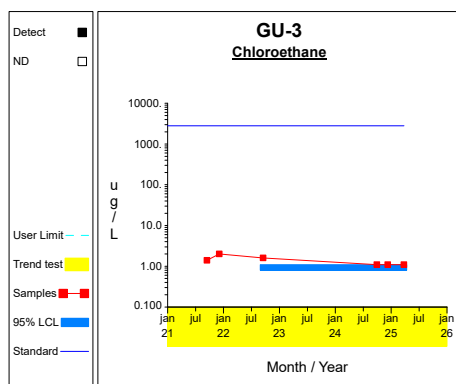
Graph 2



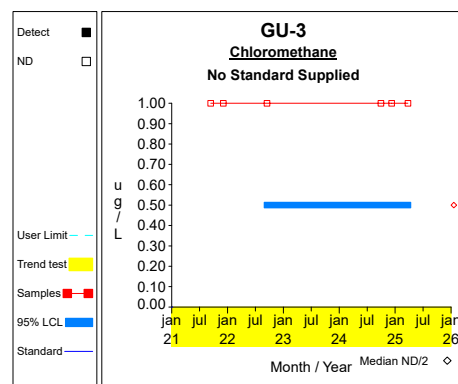
Graph 3



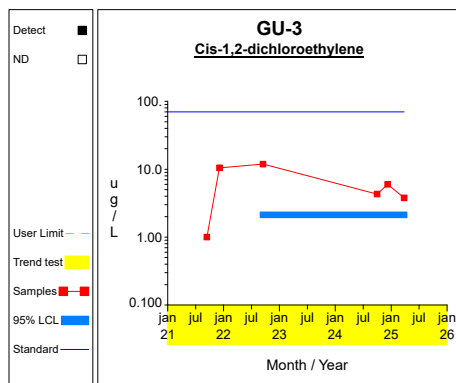
Graph 4



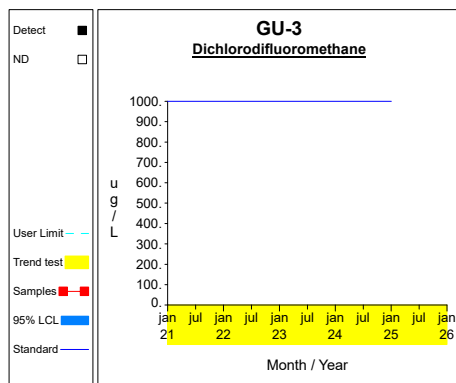
Graph 5



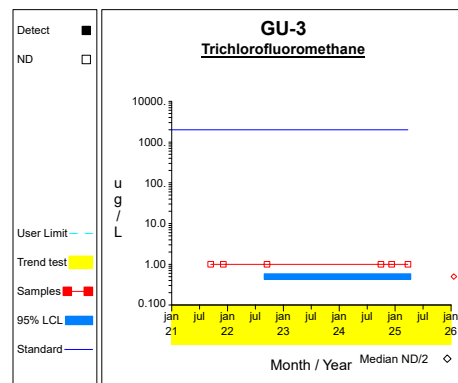
Graph 6



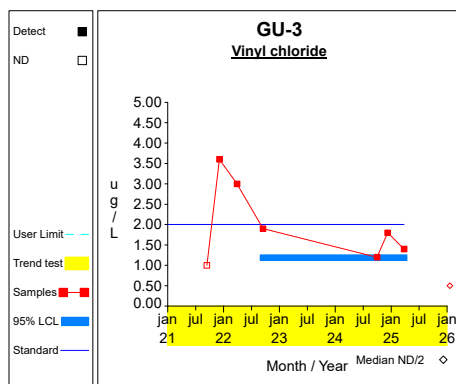
Graph 7



Graph 8

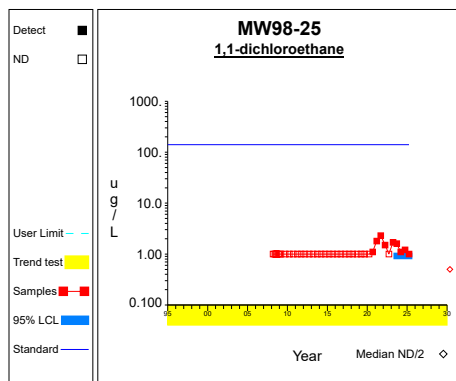


Graph 9

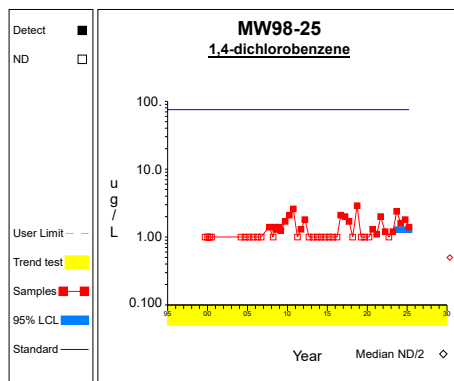


Graph 10

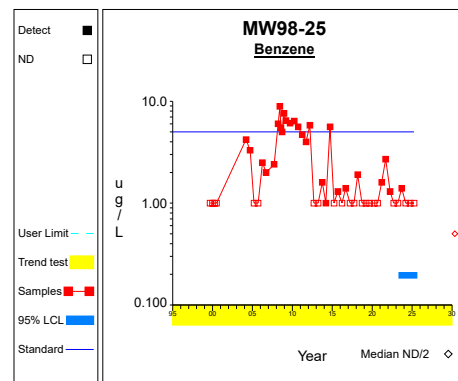
Confidence Limits (Assessment)



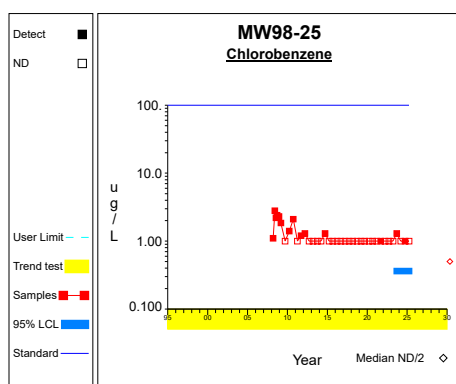
Graph 11



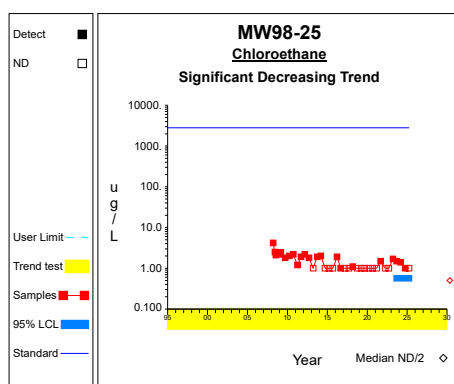
Graph 12



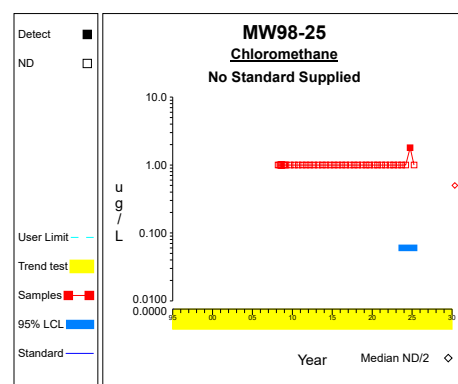
Graph 13



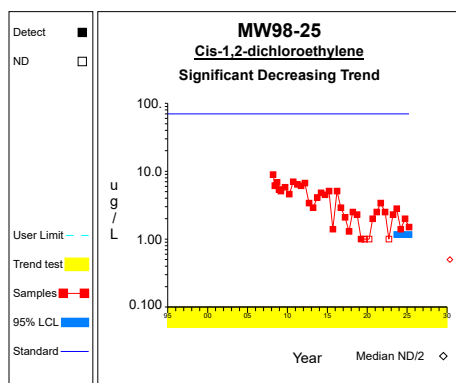
Graph 14



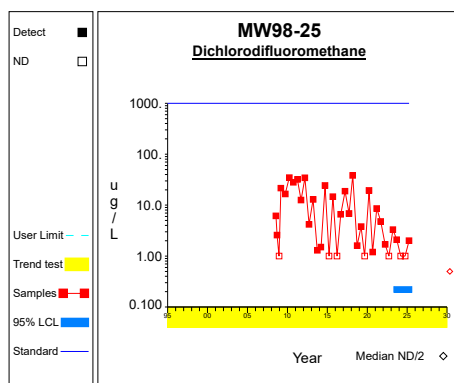
Graph 15



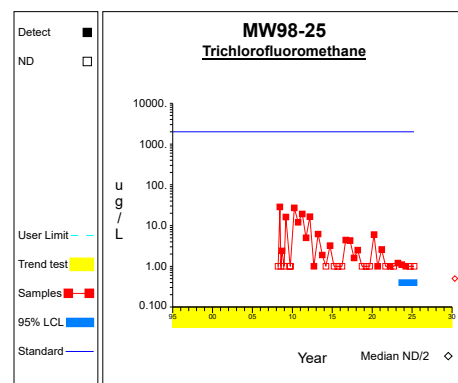
Graph 16



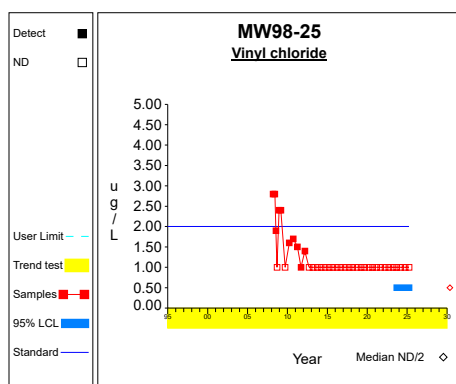
Graph 17



Graph 18

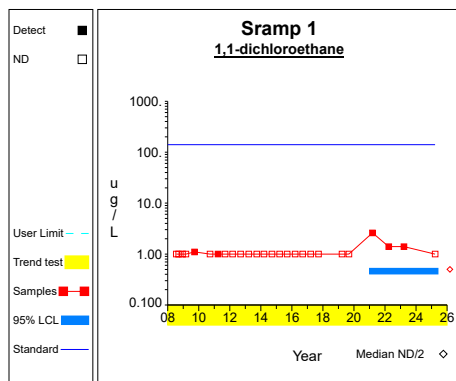


Graph 19

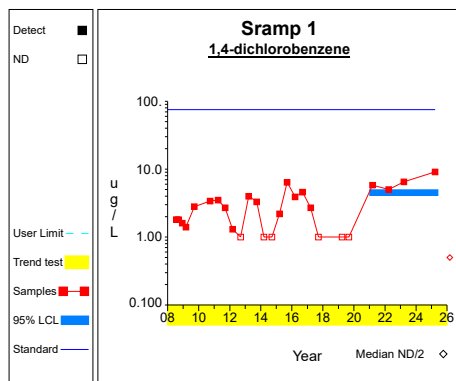


Graph 20

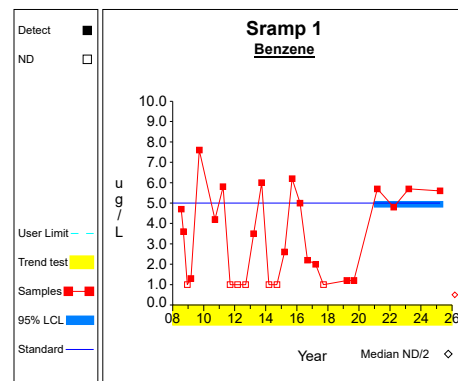
Confidence Limits (Assessment)



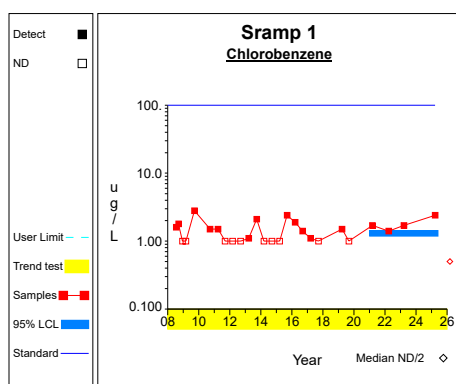
Graph 21



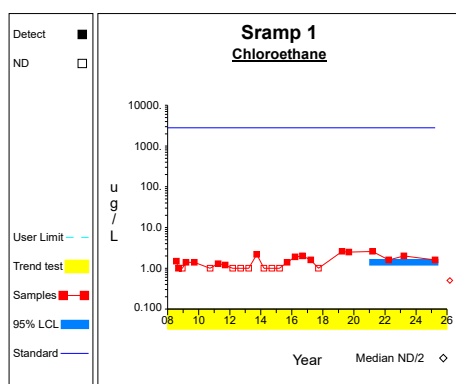
Graph 22



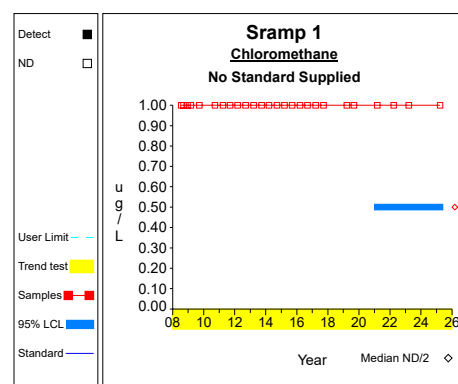
Graph 23



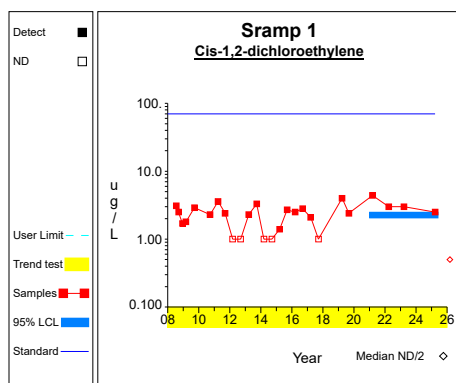
Graph 24



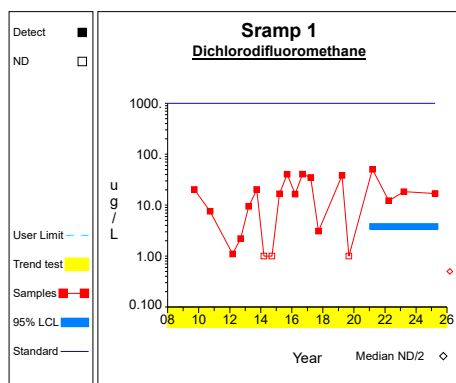
Graph 25



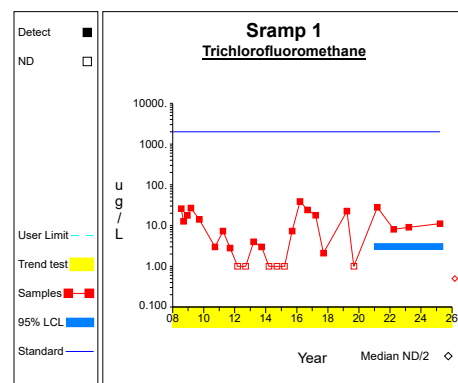
Graph 26



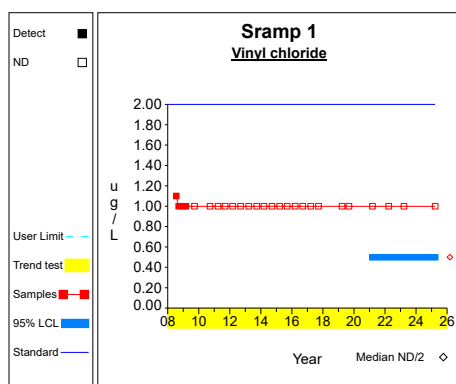
Graph 27



Graph 28



Graph 29



Graph 30

Worksheet 6 - Assessment Monitoring
1,1-dichloroethane (ug/L) at GU-3

<u>Step</u>	<u>Equation</u>	<u>Description</u>
1	$\bar{X} = \text{sum}[X] / N$ $= 2.0 / 4$ $= 0.5$	Compute the mean of the last 4 measurements.
2	$S = ((\text{sum}[X^2] - \text{sum}[X]^2/N) / (N-1))^{1/2}$ $= ((1.0 - 4.0/4) / (4-1))^{1/2}$ $= 0.0$	Compute sd of the last 4 measurements.
3	$LCL = \bar{X} - tS/N^{1/2}$ $= 0.5 - 2.353 * 0.0/4^{1/2}$ $= 0.5$	Compute lower confidence limit for the mean of the last 4 measurements.
4	$UCL = \bar{X} + tS/N^{1/2}$ $= 0.5 + 2.353 * 0.0/4^{1/2}$ $= 0.5$	Compute upper confidence limit for the mean of the last 4 measurements.
5	$N' = N * (N-1) / 2$ $= 6 * (6-1) / 2$ $= 15$	Number of sample pairs during trend detection period.
6	$S = 0.0$	Sen's estimator of trend.
7	$\text{var}(S) = 0.0$	Variance estimate for slope.
8	$M(S) = (N' \pm Z_{.995} * \text{var}(S)^{1/2}) / 2$ $= (15 \pm 2.576 * 0.0^{1/2}) / 2$ $= [7.5, 7.5]$	Ordinal positions for two-sided lower confidence limits for slope. The LCL and UCL are the M th largest slope estimates for the values shown. When the values are not integers, interpolation is used.
9	$CL(S) = [0.0, 0.0]$	Two-sided confidence interval for slope.
10	the interval includes 0	There is no significant trend.

Worksheet 6 - Assessment Monitoring
1,4-dichlorobenzene (ug/L) at GU-3

<u>Step</u>	<u>Equation</u>	<u>Description</u>
1	$\bar{X} = \text{sum}[X] / N$ $= 3.3 / 4$ $= 0.825$	Compute the mean of the last 4 measurements.
2	$S = ((\text{sum}[X^2] - \text{sum}[X]^2/N) / (N-1))^{1/2}$ $= ((3.15 - 10.89/4) / (4-1))^{1/2}$ $= 0.377$	Compute sd of the last 4 measurements.
3	$\text{LCL} = \bar{X} - tS/N^{1/2}$ $= 0.825 - 2.353 * 0.377/4^{1/2}$ $= 0.381$	Compute lower confidence limit for the mean of the last 4 measurements.
4	$\text{UCL} = \bar{X} + tS/N^{1/2}$ $= 0.825 + 2.353 * 0.377/4^{1/2}$ $= 1.269$	Compute upper confidence limit for the mean of the last 4 measurements.
5	$N' = N * (N-1) / 2$ $= 6 * (6-1) / 2$ $= 15$	Number of sample pairs during trend detection period.
6	$S = 0.17$	Sen's estimator of trend.
7	$\text{var}(S) = 19.667$	Variance estimate for slope.
8	$M(S) = (N' \pm Z_{.995} * \text{var}(S)^{1/2}) / 2$ $= (15 \pm 2.576 * 19.667^{1/2}) / 2$ $= [1.788, 13.212]$	Ordinal positions for two-sided lower confidence limits for slope. The LCL and UCL are the M th largest slope estimates for the values shown. When the values are not integers, interpolation is used.
9	$\text{CL}(S) = [-0.073, 0.513]$	Two-sided confidence interval for slope.
10	the interval includes 0	There is no significant trend.

Worksheet 6 - Assessment Monitoring
Benzene (ug/L) at GU-3

<u>Step</u>	<u>Equation</u>	<u>Description</u>
1	$\bar{X} = \text{sum}[X] / N$ $= 27.7 / 4$ $= 6.925$	Compute the mean of the last 4 measurements.
2	$S = ((\text{sum}[X^2] - \text{sum}[X]^2/N) / (N-1))^{1/2}$ $= ((194.89 - 767.29/4) / (4-1))^{1/2}$ $= 1.011$	Compute sd of the last 4 measurements.
3	$\text{LCL} = \bar{X} - tS/N^{1/2}$ $= 6.925 - 2.353 * 1.011/4^{1/2}$ $= 5.736$	Compute lower confidence limit for the mean of the last 4 measurements.
4	$\text{UCL} = \bar{X} + tS/N^{1/2}$ $= 6.925 + 2.353 * 1.011/4^{1/2}$ $= 8.114$	Compute upper confidence limit for the mean of the last 4 measurements.
5	$N' = N * (N-1) / 2$ $= 7 * (7-1) / 2$ $= 21$	Number of sample pairs during trend detection period.
6	$S = 0.635$	Sen's estimator of trend.
7	$\text{var}(S) = 42.333$	Variance estimate for slope.
8	$M(S) = (N' \pm Z_{.995} * \text{var}(S)^{1/2}) / 2$ $= (21 \pm 2.576 * 42.333^{1/2}) / 2$ $= [2.12, 18.88]$	Ordinal positions for two-sided lower confidence limits for slope. The LCL and UCL are the M th largest slope estimates for the values shown. When the values are not integers, interpolation is used.
9	$\text{CL}(S) = [-0.076, 8.604]$	Two-sided confidence interval for slope.
10	the interval includes 0	There is no significant trend.

Worksheet 6 - Assessment Monitoring
Chlorobenzene (ug/L) at GU-3

<u>Step</u>	<u>Equation</u>	<u>Description</u>
1	$\bar{X} = \text{sum}[X] / N$ $= 6.4 / 4$ $= 1.6$	Compute the mean of the last 4 measurements.
2	$S = ((\text{sum}[X^2] - \text{sum}[X]^2/N) / (N-1))^{1/2}$ $= ((10.38 - 40.96/4) / (4-1))^{1/2}$ $= 0.216$	Compute sd of the last 4 measurements.
3	$\text{LCL} = \bar{X} - tS/N^{1/2}$ $= 1.6 - 2.353 * 0.216/4^{1/2}$ $= 1.346$	Compute lower confidence limit for the mean of the last 4 measurements.
4	$\text{UCL} = \bar{X} + tS/N^{1/2}$ $= 1.6 + 2.353 * 0.216/4^{1/2}$ $= 1.854$	Compute upper confidence limit for the mean of the last 4 measurements.
5	$N' = N * (N-1) / 2$ $= 7 * (7-1) / 2$ $= 21$	Number of sample pairs during trend detection period.
6	$S = 0.283$	Sen's estimator of trend.
7	$\text{var}(S) = 42.333$	Variance estimate for slope.
8	$M(S) = (N' \pm Z_{.995} * \text{var}(S)^{1/2}) / 2$ $= (21 \pm 2.576 * 42.333^{1/2}) / 2$ $= [2.12, 18.88]$	Ordinal positions for two-sided lower confidence limits for slope. The LCL and UCL are the M th largest slope estimates for the values shown. When the values are not integers, interpolation is used.
9	$\text{CL}(S) = [-0.212, 2.314]$	Two-sided confidence interval for slope.
10	the interval includes 0	There is no significant trend.

Worksheet 6 - Assessment Monitoring
Chloroethane (ug/L) at GU-3

<u>Step</u>	<u>Equation</u>	<u>Description</u>
1	$\bar{X} = \text{sum}[X] / N$ $= 4.9 / 4$ $= 1.225$	Compute the mean of the last 4 measurements.
2	$S = ((\text{sum}[X^2] - \text{sum}[X]^2/N) / (N-1))^{1/2}$ $= ((6.19 - 24.01/4) / (4-1))^{1/2}$ $= 0.25$	Compute sd of the last 4 measurements.
3	$\text{LCL} = \bar{X} - tS/N^{1/2}$ $= 1.225 - 2.353 * 0.25/4^{1/2}$ $= 0.931$	Compute lower confidence limit for the mean of the last 4 measurements.
4	$\text{UCL} = \bar{X} + tS/N^{1/2}$ $= 1.225 + 2.353 * 0.25/4^{1/2}$ $= 1.519$	Compute upper confidence limit for the mean of the last 4 measurements.
5	$N' = N * (N-1) / 2$ $= 6 * (6-1) / 2$ $= 15$	Number of sample pairs during trend detection period.
6	$S = -0.098$	Sen's estimator of trend.
7	$\text{var}(S) = 24.667$	Variance estimate for slope.
8	$M(S) = (N' \pm Z_{.995} * \text{var}(S)^{1/2}) / 2$ $= (15 \pm 2.576 * 24.667^{1/2}) / 2$ $= [1.103, 13.897]$	Ordinal positions for two-sided lower confidence limits for slope. The LCL and UCL are the M th largest slope estimates for the values shown. When the values are not integers, interpolation is used.
9	$\text{CL}(S) = [-0.491, 0.178]$	Two-sided confidence interval for slope.
10	the interval includes 0	There is no significant trend.

Worksheet 6 - Assessment Monitoring
Chloromethane (ug/L) at GU-3

<u>Step</u>	<u>Equation</u>	<u>Description</u>
1	$\bar{X} = \text{sum}[X] / N$ $= 2.0 / 4$ $= 0.5$	Compute the mean of the last 4 measurements.
2	$S = ((\text{sum}[X^2] - \text{sum}[X]^2/N) / (N-1))^{1/2}$ $= ((1.0 - 4.0/4) / (4-1))^{1/2}$ $= 0.0$	Compute sd of the last 4 measurements.
3	$\text{LCL} = \bar{X} - tS/N^{1/2}$ $= 0.5 - 2.353 * 0.0/4^{1/2}$ $= 0.5$	Compute lower confidence limit for the mean of the last 4 measurements.
4	$\text{UCL} = \bar{X} + tS/N^{1/2}$ $= 0.5 + 2.353 * 0.0/4^{1/2}$ $= 0.5$	Compute upper confidence limit for the mean of the last 4 measurements.
5	$N' = N * (N-1) / 2$ $= 6 * (6-1) / 2$ $= 15$	Number of sample pairs during trend detection period.
6	$S = 0.0$	Sen's estimator of trend.
7	$\text{var}(S) = 0.0$	Variance estimate for slope.
8	$M(S) = (N' \pm Z_{.995} * \text{var}(S)^{1/2}) / 2$ $= (15 \pm 2.576 * 0.0^{1/2}) / 2$ $= [7.5, 7.5]$	Ordinal positions for two-sided lower confidence limits for slope. The LCL and UCL are the M th largest slope estimates for the values shown. When the values are not integers, interpolation is used.
9	$\text{CL}(S) = [0.0, 0.0]$	Two-sided confidence interval for slope.
10	the interval includes 0	There is no significant trend.

Worksheet 6 - Assessment Monitoring
Cis-1,2-dichloroethylene (ug/L) at GU-3

<u>Step</u>	<u>Equation</u>	<u>Description</u>
1	$\bar{X} = \text{sum}[X] / N$ $= 26.0 / 4$ $= 6.5$	Compute the mean of the last 4 measurements.
2	$S = ((\text{sum}[X^2] - \text{sum}[X]^2/N) / (N-1))^{1/2}$ $= ((210.54 - 676.0/4) / (4-1))^{1/2}$ $= 3.721$	Compute sd of the last 4 measurements.
3	$\text{LCL} = \bar{X} - tS/N^{1/2}$ $= 6.5 - 2.353 * 3.721/4^{1/2}$ $= 2.123$	Compute lower confidence limit for the mean of the last 4 measurements.
4	$\text{UCL} = \bar{X} + tS/N^{1/2}$ $= 6.5 + 2.353 * 3.721/4^{1/2}$ $= 10.877$	Compute upper confidence limit for the mean of the last 4 measurements.
5	$N' = N * (N-1) / 2$ $= 6 * (6-1) / 2$ $= 15$	Number of sample pairs during trend detection period.
6	$S = -1.044$	Sen's estimator of trend.
7	$\text{var}(S) = 28.333$	Variance estimate for slope.
8	$M(S) = (N' \pm Z_{.995} * \text{var}(S)^{1/2}) / 2$ $= (15 \pm 2.576 * 28.333^{1/2}) / 2$ $= [0.644, 14.356]$	Ordinal positions for two-sided lower confidence limits for slope. The LCL and UCL are the M th largest slope estimates for the values shown. When the values are not integers, interpolation is used.
9	$\text{CL}(S) = [-7.58, 22.218]$	Two-sided confidence interval for slope.
10	the interval includes 0	There is no significant trend.

Worksheet 6 - Assessment Monitoring
Dichlorodifluoromethane (ug/L) at GU-3

Insufficient data to perform analysis

Worksheet 6 - Assessment Monitoring
Trichlorofluoromethane (ug/L) at GU-3

<u>Step</u>	<u>Equation</u>	<u>Description</u>
1	$\bar{X} = \text{sum}[X] / N$ $= 2.0 / 4$ $= 0.5$	Compute the mean of the last 4 measurements.
2	$S = ((\text{sum}[X^2] - \text{sum}[X]^2/N) / (N-1))^{1/2}$ $= ((1.0 - 4.0/4) / (4-1))^{1/2}$ $= 0.0$	Compute sd of the last 4 measurements.
3	$\text{LCL} = \bar{X} - tS/N^{1/2}$ $= 0.5 - 2.353 * 0.0/4^{1/2}$ $= 0.5$	Compute lower confidence limit for the mean of the last 4 measurements.
4	$\text{UCL} = \bar{X} + tS/N^{1/2}$ $= 0.5 + 2.353 * 0.0/4^{1/2}$ $= 0.5$	Compute upper confidence limit for the mean of the last 4 measurements.
5	$N' = N * (N-1) / 2$ $= 6 * (6-1) / 2$ $= 15$	Number of sample pairs during trend detection period.
6	$S = 0.0$	Sen's estimator of trend.
7	$\text{var}(S) = 0.0$	Variance estimate for slope.
8	$M(S) = (N' \pm Z_{.995} * \text{var}(S)^{1/2}) / 2$ $= (15 \pm 2.576 * 0.0^{1/2}) / 2$ $= [7.5, 7.5]$	Ordinal positions for two-sided lower confidence limits for slope. The LCL and UCL are the M th largest slope estimates for the values shown. When the values are not integers, interpolation is used.
9	$\text{CL}(S) = [0.0, 0.0]$	Two-sided confidence interval for slope.
10	the interval includes 0	There is no significant trend.

Worksheet 6 - Assessment Monitoring
Vinyl chloride (ug/L) at GU-3

<u>Step</u>	<u>Equation</u>	<u>Description</u>
1	$\bar{X} = \text{sum}[X] / N$ $= 6.3 / 4$ $= 1.575$	Compute the mean of the last 4 measurements.
2	$S = ((\text{sum}[X^2] - \text{sum}[X]^2/N) / (N-1))^{1/2}$ $= ((10.25 - 39.69/4) / (4-1))^{1/2}$ $= 0.33$	Compute sd of the last 4 measurements.
3	$\text{LCL} = \bar{X} - tS/N^{1/2}$ $= 1.575 - 2.353 * 0.33/4^{1/2}$ $= 1.186$	Compute lower confidence limit for the mean of the last 4 measurements.
4	$\text{UCL} = \bar{X} + tS/N^{1/2}$ $= 1.575 + 2.353 * 0.33/4^{1/2}$ $= 1.964$	Compute upper confidence limit for the mean of the last 4 measurements.
5	$N' = N * (N-1) / 2$ $= 7 * (7-1) / 2$ $= 21$	Number of sample pairs during trend detection period.
6	$S = -0.343$	Sen's estimator of trend.
7	$\text{var}(S) = 44.333$	Variance estimate for slope.
8	$M(S) = (N' \pm Z_{.995} * \text{var}(S)^{1/2}) / 2$ $= (21 \pm 2.576 * 44.333^{1/2}) / 2$ $= [1.924, 19.076]$	Ordinal positions for two-sided lower confidence limits for slope. The LCL and UCL are the M th largest slope estimates for the values shown. When the values are not integers, interpolation is used.
9	$\text{CL}(S) = [-2.183, 3.294]$	Two-sided confidence interval for slope.
10	the interval includes 0	There is no significant trend.

Worksheet 6 - Assessment Monitoring
1,1-dichloroethane (ug/L) at MW98-25

<u>Step</u>	<u>Equation</u>	<u>Description</u>
1	$\bar{X} = \text{sum}[X] / N$ $= 4.9 / 4$ $= 1.225$	Compute the mean of the last 4 measurements.
2	$S = ((\text{sum}[X^2] - \text{sum}[X]^2/N) / (N-1))^{1/2}$ $= ((6.21 - 24.01/4) / (4-1))^{1/2}$ $= 0.263$	Compute sd of the last 4 measurements.
3	$\text{LCL} = \bar{X} - tS/N^{1/2}$ $= 1.225 - 2.353 * 0.263/4^{1/2}$ $= 0.916$	Compute lower confidence limit for the mean of the last 4 measurements.
4	$\text{UCL} = \bar{X} + tS/N^{1/2}$ $= 1.225 + 2.353 * 0.263/4^{1/2}$ $= 1.534$	Compute upper confidence limit for the mean of the last 4 measurements.
5	$N' = N * (N-1) / 2$ $= 38 * (38-1) / 2$ $= 703$	Number of sample pairs during trend detection period.
6	$S = 0.0$	Sen's estimator of trend.
7	$\text{var}(S) = 3484.0$	Variance estimate for slope.
8	$M(S) = (N' \pm Z_{.995} * \text{var}(S)^{1/2}) / 2$ $= (703 \pm 2.576 * 3484.0^{1/2}) / 2$ $= [275.475, 427.525]$	Ordinal positions for two-sided lower confidence limits for slope. The LCL and UCL are the M th largest slope estimates for the values shown. When the values are not integers, interpolation is used.
9	$\text{CL}(S) = [0.0, 0.0]$	Two-sided confidence interval for slope.
10	the interval includes 0	There is no significant trend.

Worksheet 6 - Assessment Monitoring
1,4-dichlorobenzene (ug/L) at MW98-25

<u>Step</u>	<u>Equation</u>	<u>Description</u>
1	$\bar{X} = \text{sum}[X] / N$ $= 7.2 / 4$ $= 1.8$	Compute the mean of the last 4 measurements.
2	$S = ((\text{sum}[X^2] - \text{sum}[X]^2/N) / (N-1))^{1/2}$ $= ((13.52 - 51.84/4) / (4-1))^{1/2}$ $= 0.432$	Compute sd of the last 4 measurements.
3	$\text{LCL} = \bar{X} - tS/N^{1/2}$ $= 1.8 - 2.353 * 0.432/4^{1/2}$ $= 1.292$	Compute lower confidence limit for the mean of the last 4 measurements.
4	$\text{UCL} = \bar{X} + tS/N^{1/2}$ $= 1.8 + 2.353 * 0.432/4^{1/2}$ $= 2.308$	Compute upper confidence limit for the mean of the last 4 measurements.
5	$N' = N * (N-1) / 2$ $= 49 * (49-1) / 2$ $= 1176$	Number of sample pairs during trend detection period.
6	$S = 0.0$	Sen's estimator of trend.
7	$\text{var}(S) = 11603.0$	Variance estimate for slope.
8	$M(S) = (N' \pm Z_{.995} * \text{var}(S)^{1/2}) / 2$ $= (1176 \pm 2.576 * 11603.0^{1/2}) / 2$ $= [449.26, 726.74]$	Ordinal positions for two-sided lower confidence limits for slope. The LCL and UCL are the M th largest slope estimates for the values shown. When the values are not integers, interpolation is used.
9	$\text{CL}(S) = [0.0, 0.058]$	Two-sided confidence interval for slope.
10	the interval includes 0	There is no significant trend.

Worksheet 6 - Assessment Monitoring
Benzene (ug/L) at MW98-25

<u>Step</u>	<u>Equation</u>	<u>Description</u>
1	$\bar{X} = \text{sum}[X] / N$ $= 2.9 / 4$ $= 0.725$	Compute the mean of the last 4 measurements.
2	$S = ((\text{sum}[X^2] - \text{sum}[X]^2/N) / (N-1))^{1/2}$ $= ((2.71 - 8.41/4) / (4-1))^{1/2}$ $= 0.45$	Compute sd of the last 4 measurements.
3	$\text{LCL} = \bar{X} - tS/N^{1/2}$ $= 0.725 - 2.353 * 0.45/4^{1/2}$ $= 0.196$	Compute lower confidence limit for the mean of the last 4 measurements.
4	$\text{UCL} = \bar{X} + tS/N^{1/2}$ $= 0.725 + 2.353 * 0.45/4^{1/2}$ $= 1.254$	Compute upper confidence limit for the mean of the last 4 measurements.
5	$N' = N * (N-1) / 2$ $= 49 * (49-1) / 2$ $= 1176$	Number of sample pairs during trend detection period.
6	$S = -0.05$	Sen's estimator of trend.
7	$\text{var}(S) = 12197.0$	Variance estimate for slope.
8	$M(S) = (N' \pm Z_{.995} * \text{var}(S)^{1/2}) / 2$ $= (1176 \pm 2.576 * 12197.0^{1/2}) / 2$ $= [445.753, 730.247]$	Ordinal positions for two-sided lower confidence limits for slope. The LCL and UCL are the M th largest slope estimates for the values shown. When the values are not integers, interpolation is used.
9	$\text{CL}(S) = [-0.224, 0.0]$	Two-sided confidence interval for slope.
10	the interval includes 0	There is no significant trend.

Worksheet 6 - Assessment Monitoring
Chlorobenzene (ug/L) at MW98-25

<u>Step</u>	<u>Equation</u>	<u>Description</u>
1	$\bar{X} = \text{sum}[X] / N$ $= 3.3 / 4$ $= 0.825$	Compute the mean of the last 4 measurements.
2	$S = ((\text{sum}[X^2] - \text{sum}[X]^2/N) / (N-1))^{1/2}$ $= ((3.19 - 10.89/4) / (4-1))^{1/2}$ $= 0.395$	Compute sd of the last 4 measurements.
3	$\text{LCL} = \bar{X} - tS/N^{1/2}$ $= 0.825 - 2.353 * 0.395/4^{1/2}$ $= 0.361$	Compute lower confidence limit for the mean of the last 4 measurements.
4	$\text{UCL} = \bar{X} + tS/N^{1/2}$ $= 0.825 + 2.353 * 0.395/4^{1/2}$ $= 1.289$	Compute upper confidence limit for the mean of the last 4 measurements.
5	$N' = N * (N-1) / 2$ $= 38 * (38-1) / 2$ $= 703$	Number of sample pairs during trend detection period.
6	$S = 0.0$	Sen's estimator of trend.
7	$\text{var}(S) = 4697.0$	Variance estimate for slope.
8	$M(S) = (N' \pm Z_{.995} * \text{var}(S)^{1/2}) / 2$ $= (703 \pm 2.576 * 4697.0^{1/2}) / 2$ $= [263.227, 439.773]$	Ordinal positions for two-sided lower confidence limits for slope. The LCL and UCL are the M th largest slope estimates for the values shown. When the values are not integers, interpolation is used.
9	$\text{CL}(S) = [-0.087, 0.0]$	Two-sided confidence interval for slope.
10	the interval includes 0	There is no significant trend.

Worksheet 6 - Assessment Monitoring
Chloroethane (ug/L) at MW98-25

<u>Step</u>	<u>Equation</u>	<u>Description</u>
1	$\bar{X} = \text{sum}[X] / N$ $= 4.4 / 4$ $= 1.1$	Compute the mean of the last 4 measurements.
2	$S = ((\text{sum}[X^2] - \text{sum}[X]^2/N) / (N-1))^{1/2}$ $= ((5.46 - 19.36/4) / (4-1))^{1/2}$ $= 0.455$	Compute sd of the last 4 measurements.
3	$\text{LCL} = \bar{X} - tS/N^{1/2}$ $= 1.1 - 2.353 * 0.455/4^{1/2}$ $= 0.565$	Compute lower confidence limit for the mean of the last 4 measurements.
4	$\text{UCL} = \bar{X} + tS/N^{1/2}$ $= 1.1 + 2.353 * 0.455/4^{1/2}$ $= 1.635$	Compute upper confidence limit for the mean of the last 4 measurements.
5	$N' = N * (N-1) / 2$ $= 38 * (38-1) / 2$ $= 703$	Number of sample pairs during trend detection period.
6	$S = -0.088$	Sen's estimator of trend.
7	$\text{var}(S) = 5907.333$	Variance estimate for slope.
8	$M(S) = (N' \pm Z_{.995} * \text{var}(S)^{1/2}) / 2$ $= (703 \pm 2.576 * 5907.333^{1/2}) / 2$ $= [252.505, 450.495]$	Ordinal positions for two-sided lower confidence limits for slope. The LCL and UCL are the M th largest slope estimates for the values shown. When the values are not integers, interpolation is used.
9	$\text{CL}(S) = [-0.158, -0.026]$	Two-sided confidence interval for slope.
10	$\text{UCL}(S) < 0$	Significant decreasing trend.

Worksheet 6 - Assessment Monitoring
Chloromethane (ug/L) at MW98-25

<u>Step</u>	<u>Equation</u>	<u>Description</u>
1	$\bar{X} = \text{sum}[X] / N$ $= 3.3 / 4$ $= 0.825$	Compute the mean of the last 4 measurements.
2	$S = ((\text{sum}[X^2] - \text{sum}[X]^2/N) / (N-1))^{1/2}$ $= ((3.99 - 10.89/4) / (4-1))^{1/2}$ $= 0.65$	Compute sd of the last 4 measurements.
3	$\text{LCL} = \bar{X} - tS/N^{1/2}$ $= 0.825 - 2.353 * 0.65/4^{1/2}$ $= 0.06$	Compute lower confidence limit for the mean of the last 4 measurements.
4	$\text{UCL} = \bar{X} + tS/N^{1/2}$ $= 0.825 + 2.353 * 0.65/4^{1/2}$ $= 1.59$	Compute upper confidence limit for the mean of the last 4 measurements.
5	$N' = N * (N-1) / 2$ $= 38 * (38-1) / 2$ $= 703$	Number of sample pairs during trend detection period.
6	$S = 0.0$	Sen's estimator of trend.
7	$\text{var}(S) = 481.0$	Variance estimate for slope.
8	$M(S) = (N' \pm Z_{.995} * \text{var}(S)^{1/2}) / 2$ $= (703 \pm 2.576 * 481.0^{1/2}) / 2$ $= [323.252, 379.748]$	Ordinal positions for two-sided lower confidence limits for slope. The LCL and UCL are the M th largest slope estimates for the values shown. When the values are not integers, interpolation is used.
9	$\text{CL}(S) = [0.0, 0.0]$	Two-sided confidence interval for slope.
10	the interval includes 0	There is no significant trend.

Worksheet 6 - Assessment Monitoring
Cis-1,2-dichloroethylene (ug/L) at MW98-25

<u>Step</u>	<u>Equation</u>	<u>Description</u>
1	$\bar{X} = \text{sum}[X] / N$ $= 7.7 / 4$ $= 1.925$	Compute the mean of the last 4 measurements.
2	$S = ((\text{sum}[X^2] - \text{sum}[X]^2/N) / (N-1))^{1/2}$ $= ((16.05 - 59.29/4) / (4-1))^{1/2}$ $= 0.64$	Compute sd of the last 4 measurements.
3	$\text{LCL} = \bar{X} - tS/N^{1/2}$ $= 1.925 - 2.353 * 0.64/4^{1/2}$ $= 1.173$	Compute lower confidence limit for the mean of the last 4 measurements.
4	$\text{UCL} = \bar{X} + tS/N^{1/2}$ $= 1.925 + 2.353 * 0.64/4^{1/2}$ $= 2.677$	Compute upper confidence limit for the mean of the last 4 measurements.
5	$N' = N * (N-1) / 2$ $= 38 * (38-1) / 2$ $= 703$	Number of sample pairs during trend detection period.
6	$S = -0.329$	Sen's estimator of trend.
7	$\text{var}(S) = 6310.0$	Variance estimate for slope.
8	$M(S) = (N' \pm Z_{.995} * \text{var}(S)^{1/2}) / 2$ $= (703 \pm 2.576 * 6310.0^{1/2}) / 2$ $= [249.187, 453.813]$	Ordinal positions for two-sided lower confidence limits for slope. The LCL and UCL are the M th largest slope estimates for the values shown. When the values are not integers, interpolation is used.
9	$\text{CL}(S) = [-0.452, -0.215]$	Two-sided confidence interval for slope.
10	$\text{UCL}(S) < 0$	Significant decreasing trend.

Worksheet 6 - Assessment Monitoring
Dichlorodifluoromethane (ug/L) at MW98-25

<u>Step</u>	<u>Equation</u>	<u>Description</u>
1	$\bar{X} = \text{sum}[X] / N$ $= 5.1 / 4$ $= 1.275$	Compute the mean of the last 4 measurements.
2	$S = ((\text{sum}[X^2] - \text{sum}[X]^2/N) / (N-1))^{1/2}$ $= ((8.91 - 26.01/4) / (4-1))^{1/2}$ $= 0.896$	Compute sd of the last 4 measurements.
3	$\text{LCL} = \bar{X} - tS/N^{1/2}$ $= 1.275 - 2.353 * 0.896/4^{1/2}$ $= 0.221$	Compute lower confidence limit for the mean of the last 4 measurements.
4	$\text{UCL} = \bar{X} + tS/N^{1/2}$ $= 1.275 + 2.353 * 0.896/4^{1/2}$ $= 2.329$	Compute upper confidence limit for the mean of the last 4 measurements.
5	$N' = N * (N-1) / 2$ $= 36 * (36-1) / 2$ $= 630$	Number of sample pairs during trend detection period.
6	$S = -0.722$	Sen's estimator of trend.
7	$\text{var}(S) = 5345.667$	Variance estimate for slope.
8	$M(S) = (N' \pm Z_{.995} * \text{var}(S)^{1/2}) / 2$ $= (630 \pm 2.576 * 5345.667^{1/2}) / 2$ $= [220.829, 409.171]$	Ordinal positions for two-sided lower confidence limits for slope. The LCL and UCL are the M th largest slope estimates for the values shown. When the values are not integers, interpolation is used.
9	$\text{CL}(S) = [-1.803, 0.0]$	Two-sided confidence interval for slope.
10	the interval includes 0	There is no significant trend.

Worksheet 6 - Assessment Monitoring
Trichlorofluoromethane (ug/L) at MW98-25

<u>Step</u>	<u>Equation</u>	<u>Description</u>
1	$\bar{X} = \text{sum}[X] / N$ $= 3.1 / 4$ $= 0.775$	Compute the mean of the last 4 measurements.
2	$S = ((\text{sum}[X^2] - \text{sum}[X]^2/N) / (N-1))^{1/2}$ $= ((2.71 - 9.61/4) / (4-1))^{1/2}$ $= 0.32$	Compute sd of the last 4 measurements.
3	$\text{LCL} = \bar{X} - tS/N^{1/2}$ $= 0.775 - 2.353 * 0.32/4^{1/2}$ $= 0.398$	Compute lower confidence limit for the mean of the last 4 measurements.
4	$\text{UCL} = \bar{X} + tS/N^{1/2}$ $= 0.775 + 2.353 * 0.32/4^{1/2}$ $= 1.152$	Compute upper confidence limit for the mean of the last 4 measurements.
5	$N' = N * (N-1) / 2$ $= 39 * (39-1) / 2$ $= 741$	Number of sample pairs during trend detection period.
6	$S = -0.083$	Sen's estimator of trend.
7	$\text{var}(S) = 6331.667$	Variance estimate for slope.
8	$M(S) = (N' \pm Z_{.995} * \text{var}(S)^{1/2}) / 2$ $= (741 \pm 2.576 * 6331.667^{1/2}) / 2$ $= [268.012, 472.988]$	Ordinal positions for two-sided lower confidence limits for slope. The LCL and UCL are the M th largest slope estimates for the values shown. When the values are not integers, interpolation is used.
9	$\text{CL}(S) = [-0.504, 0.0]$	Two-sided confidence interval for slope.
10	the interval includes 0	There is no significant trend.

Worksheet 6 - Assessment Monitoring
Vinyl chloride (ug/L) at MW98-25

<u>Step</u>	<u>Equation</u>	<u>Description</u>
1	$\bar{X} = \text{sum}[X] / N$ $= 2.0 / 4$ $= 0.5$	Compute the mean of the last 4 measurements.
2	$S = ((\text{sum}[X^2] - \text{sum}[X]^2/N) / (N-1))^{1/2}$ $= ((1.0 - 4.0/4) / (4-1))^{1/2}$ $= 0.0$	Compute sd of the last 4 measurements.
3	$\text{LCL} = \bar{X} - tS/N^{1/2}$ $= 0.5 - 2.353 * 0.0/4^{1/2}$ $= 0.5$	Compute lower confidence limit for the mean of the last 4 measurements.
4	$\text{UCL} = \bar{X} + tS/N^{1/2}$ $= 0.5 + 2.353 * 0.0/4^{1/2}$ $= 0.5$	Compute upper confidence limit for the mean of the last 4 measurements.
5	$N' = N * (N-1) / 2$ $= 38 * (38-1) / 2$ $= 703$	Number of sample pairs during trend detection period.
6	$S = 0.0$	Sen's estimator of trend.
7	$\text{var}(S) = 3763.0$	Variance estimate for slope.
8	$M(S) = (N' \pm Z_{.995} * \text{var}(S)^{1/2}) / 2$ $= (703 \pm 2.576 * 3763.0^{1/2}) / 2$ $= [272.49, 430.51]$	Ordinal positions for two-sided lower confidence limits for slope. The LCL and UCL are the M th largest slope estimates for the values shown. When the values are not integers, interpolation is used.
9	$\text{CL}(S) = [-0.086, 0.0]$	Two-sided confidence interval for slope.
10	the interval includes 0	There is no significant trend.

Worksheet 6 - Assessment Monitoring
1,1-dichloroethane (ug/L) at Sramp 1

<u>Step</u>	<u>Equation</u>	<u>Description</u>
1	$\bar{X} = \text{sum}[X] / N$ $= 5.9 / 4$ $= 1.475$	Compute the mean of the last 4 measurements.
2	$S = ((\text{sum}[X^2] - \text{sum}[X]^2/N) / (N-1))^{1/2}$ $= ((10.93 - 34.81/4) / (4-1))^{1/2}$ $= 0.862$	Compute sd of the last 4 measurements.
3	$\text{LCL} = \bar{X} - tS/N^{1/2}$ $= 1.475 - 2.353 * 0.862/4^{1/2}$ $= 0.461$	Compute lower confidence limit for the mean of the last 4 measurements.
4	$\text{UCL} = \bar{X} + tS/N^{1/2}$ $= 1.475 + 2.353 * 0.862/4^{1/2}$ $= 2.489$	Compute upper confidence limit for the mean of the last 4 measurements.
5	$N' = N * (N-1) / 2$ $= 26 * (26-1) / 2$ $= 325$	Number of sample pairs during trend detection period.
6	$S = 0.0$	Sen's estimator of trend.
7	$\text{var}(S) = 960.667$	Variance estimate for slope.
8	$M(S) = (N' \pm Z_{.995} * \text{var}(S)^{1/2}) / 2$ $= (325 \pm 2.576 * 960.667^{1/2}) / 2$ $= [122.579, 202.421]$	Ordinal positions for two-sided lower confidence limits for slope. The LCL and UCL are the M th largest slope estimates for the values shown. When the values are not integers, interpolation is used.
9	$\text{CL}(S) = [0.0, 0.0]$	Two-sided confidence interval for slope.
10	the interval includes 0	There is no significant trend.

Worksheet 6 - Assessment Monitoring
1,4-dichlorobenzene (ug/L) at Sramp 1

<u>Step</u>	<u>Equation</u>	<u>Description</u>
1	$\bar{X} = \text{sum}[X] / N$ $= 26.4 / 4$ $= 6.6$	Compute the mean of the last 4 measurements.
2	$S = ((\text{sum}[X^2] - \text{sum}[X]^2/N) / (N-1))^{1/2}$ $= ((183.7 - 696.96/4) / (4-1))^{1/2}$ $= 1.776$	Compute sd of the last 4 measurements.
3	$\text{LCL} = \bar{X} - tS/N^{1/2}$ $= 6.6 - 2.353 * 1.776/4^{1/2}$ $= 4.511$	Compute lower confidence limit for the mean of the last 4 measurements.
4	$\text{UCL} = \bar{X} + tS/N^{1/2}$ $= 6.6 + 2.353 * 1.776/4^{1/2}$ $= 8.689$	Compute upper confidence limit for the mean of the last 4 measurements.
5	$N' = N * (N-1) / 2$ $= 26 * (26-1) / 2$ $= 325$	Number of sample pairs during trend detection period.
6	$S = 0.231$	Sen's estimator of trend.
7	$\text{var}(S) = 2028.0$	Variance estimate for slope.
8	$M(S) = (N' \pm Z_{.995} * \text{var}(S)^{1/2}) / 2$ $= (325 \pm 2.576 * 2028.0^{1/2}) / 2$ $= [104.497, 220.503]$	Ordinal positions for two-sided lower confidence limits for slope. The LCL and UCL are the M th largest slope estimates for the values shown. When the values are not integers, interpolation is used.
9	$\text{CL}(S) = [-0.109, 0.42]$	Two-sided confidence interval for slope.
10	the interval includes 0	There is no significant trend.

Worksheet 6 - Assessment Monitoring
Benzene (ug/L) at Sramp 1

<u>Step</u>	<u>Equation</u>	<u>Description</u>
1	$\bar{X} = \text{sum}[X] / N$ $= 21.8 / 4$ $= 5.45$	Compute the mean of the last 4 measurements.
2	$S = ((\text{sum}[X^2] - \text{sum}[X]^2/N) / (N-1))^{1/2}$ $= ((119.38 - 475.24/4) / (4-1))^{1/2}$ $= 0.436$	Compute sd of the last 4 measurements.
3	$\text{LCL} = \bar{X} - tS/N^{1/2}$ $= 5.45 - 2.353 * 0.436/4^{1/2}$ $= 4.937$	Compute lower confidence limit for the mean of the last 4 measurements.
4	$\text{UCL} = \bar{X} + tS/N^{1/2}$ $= 5.45 + 2.353 * 0.436/4^{1/2}$ $= 5.963$	Compute upper confidence limit for the mean of the last 4 measurements.
5	$N' = N * (N-1) / 2$ $= 26 * (26-1) / 2$ $= 325$	Number of sample pairs during trend detection period.
6	$S = 0.0$	Sen's estimator of trend.
7	$\text{var}(S) = 2012.0$	Variance estimate for slope.
8	$M(S) = (N' \pm Z_{.995} * \text{var}(S)^{1/2}) / 2$ $= (325 \pm 2.576 * 2012.0^{1/2}) / 2$ $= [104.726, 220.274]$	Ordinal positions for two-sided lower confidence limits for slope. The LCL and UCL are the M th largest slope estimates for the values shown. When the values are not integers, interpolation is used.
9	$\text{CL}(S) = [-0.267, 0.337]$	Two-sided confidence interval for slope.
10	the interval includes 0	There is no significant trend.

Worksheet 6 - Assessment Monitoring
Chlorobenzene (ug/L) at Sramp 1

<u>Step</u>	<u>Equation</u>	<u>Description</u>
1	$\bar{X} = \text{sum}[X] / N$ $= 7.2 / 4$ $= 1.8$	Compute the mean of the last 4 measurements.
2	$S = ((\text{sum}[X^2] - \text{sum}[X]^2/N) / (N-1))^{1/2}$ $= ((13.5 - 51.84/4) / (4-1))^{1/2}$ $= 0.424$	Compute sd of the last 4 measurements.
3	$\text{LCL} = \bar{X} - tS/N^{1/2}$ $= 1.8 - 2.353 * 0.424/4^{1/2}$ $= 1.301$	Compute lower confidence limit for the mean of the last 4 measurements.
4	$\text{UCL} = \bar{X} + tS/N^{1/2}$ $= 1.8 + 2.353 * 0.424/4^{1/2}$ $= 2.299$	Compute upper confidence limit for the mean of the last 4 measurements.
5	$N' = N * (N-1) / 2$ $= 26 * (26-1) / 2$ $= 325$	Number of sample pairs during trend detection period.
6	$S = 0.0$	Sen's estimator of trend.
7	$\text{var}(S) = 1925.667$	Variance estimate for slope.
8	$M(S) = (N' \pm Z_{.995} * \text{var}(S)^{1/2}) / 2$ $= (325 \pm 2.576 * 1925.667^{1/2}) / 2$ $= [105.979, 219.021]$	Ordinal positions for two-sided lower confidence limits for slope. The LCL and UCL are the M th largest slope estimates for the values shown. When the values are not integers, interpolation is used.
9	$\text{CL}(S) = [-0.046, 0.102]$	Two-sided confidence interval for slope.
10	the interval includes 0	There is no significant trend.

Worksheet 6 - Assessment Monitoring
Chloroethane (ug/L) at Sramp 1

<u>Step</u>	<u>Equation</u>	<u>Description</u>
1	$\bar{X} = \text{sum}[X] / N$ $= 7.8 / 4$ $= 1.95$	Compute the mean of the last 4 measurements.
2	$S = ((\text{sum}[X^2] - \text{sum}[X]^2/N) / (N-1))^{1/2}$ $= ((15.88 - 60.84/4) / (4-1))^{1/2}$ $= 0.473$	Compute sd of the last 4 measurements.
3	$\text{LCL} = \bar{X} - tS/N^{1/2}$ $= 1.95 - 2.353 * 0.473/4^{1/2}$ $= 1.394$	Compute lower confidence limit for the mean of the last 4 measurements.
4	$\text{UCL} = \bar{X} + tS/N^{1/2}$ $= 1.95 + 2.353 * 0.473/4^{1/2}$ $= 2.506$	Compute upper confidence limit for the mean of the last 4 measurements.
5	$N' = N * (N-1) / 2$ $= 26 * (26-1) / 2$ $= 325$	Number of sample pairs during trend detection period.
6	$S = 0.057$	Sen's estimator of trend.
7	$\text{var}(S) = 1957.0$	Variance estimate for slope.
8	$M(S) = (N' \pm Z_{.995} * \text{var}(S)^{1/2}) / 2$ $= (325 \pm 2.576 * 1957.0^{1/2}) / 2$ $= [105.521, 219.479]$	Ordinal positions for two-sided lower confidence limits for slope. The LCL and UCL are the M th largest slope estimates for the values shown. When the values are not integers, interpolation is used.
9	$\text{CL}(S) = [0.0, 0.142]$	Two-sided confidence interval for slope.
10	the interval includes 0	There is no significant trend.

Worksheet 6 - Assessment Monitoring
Chloromethane (ug/L) at Sramp 1

<u>Step</u>	<u>Equation</u>	<u>Description</u>
1	$\bar{X} = \text{sum}[X] / N$ $= 2.0 / 4$ $= 0.5$	Compute the mean of the last 4 measurements.
2	$S = ((\text{sum}[X^2] - \text{sum}[X]^2/N) / (N-1))^{1/2}$ $= ((1.0 - 4.0/4) / (4-1))^{1/2}$ $= 0.0$	Compute sd of the last 4 measurements.
3	$\text{LCL} = \bar{X} - tS/N^{1/2}$ $= 0.5 - 2.353 * 0.0/4^{1/2}$ $= 0.5$	Compute lower confidence limit for the mean of the last 4 measurements.
4	$\text{UCL} = \bar{X} + tS/N^{1/2}$ $= 0.5 + 2.353 * 0.0/4^{1/2}$ $= 0.5$	Compute upper confidence limit for the mean of the last 4 measurements.
5	$N' = N * (N-1) / 2$ $= 26 * (26-1) / 2$ $= 325$	Number of sample pairs during trend detection period.
6	$S = 0.0$	Sen's estimator of trend.
7	$\text{var}(S) = 0.0$	Variance estimate for slope.
8	$M(S) = (N' \pm Z_{.995} * \text{var}(S)^{1/2}) / 2$ $= (325 \pm 2.576 * 0.0^{1/2}) / 2$ $= [162.5, 162.5]$	Ordinal positions for two-sided lower confidence limits for slope. The LCL and UCL are the M th largest slope estimates for the values shown. When the values are not integers, interpolation is used.
9	$\text{CL}(S) = [0.0, 0.0]$	Two-sided confidence interval for slope.
10	the interval includes 0	There is no significant trend.

Worksheet 6 - Assessment Monitoring
Cis-1,2-dichloroethylene (ug/L) at Sramp 1

<u>Step</u>	<u>Equation</u>	<u>Description</u>
1	$\bar{X} = \text{sum}[X] / N$ $= 12.9 / 4$ $= 3.225$	Compute the mean of the last 4 measurements.
2	$S = ((\text{sum}[X^2] - \text{sum}[X]^2/N) / (N-1))^{1/2}$ $= ((43.61 - 166.41/4) / (4-1))^{1/2}$ $= 0.818$	Compute sd of the last 4 measurements.
3	$\text{LCL} = \bar{X} - tS/N^{1/2}$ $= 3.225 - 2.353 * 0.818/4^{1/2}$ $= 2.263$	Compute lower confidence limit for the mean of the last 4 measurements.
4	$\text{UCL} = \bar{X} + tS/N^{1/2}$ $= 3.225 + 2.353 * 0.818/4^{1/2}$ $= 4.187$	Compute upper confidence limit for the mean of the last 4 measurements.
5	$N' = N * (N-1) / 2$ $= 26 * (26-1) / 2$ $= 325$	Number of sample pairs during trend detection period.
6	$S = 0.037$	Sen's estimator of trend.
7	$\text{var}(S) = 2035.0$	Variance estimate for slope.
8	$M(S) = (N' \pm Z_{.995} * \text{var}(S)^{1/2}) / 2$ $= (325 \pm 2.576 * 2035.0^{1/2}) / 2$ $= [104.397, 220.603]$	Ordinal positions for two-sided lower confidence limits for slope. The LCL and UCL are the M th largest slope estimates for the values shown. When the values are not integers, interpolation is used.
9	$\text{CL}(S) = [-0.073, 0.161]$	Two-sided confidence interval for slope.
10	the interval includes 0	There is no significant trend.

Worksheet 6 - Assessment Monitoring
Dichlorodifluoromethane (ug/L) at Sramp 1

<u>Step</u>	<u>Equation</u>	<u>Description</u>
1	$\bar{X} = \text{sum}[X] / N$ $= 98.2 / 4$ $= 24.55$	Compute the mean of the last 4 measurements.
2	$S = ((\text{sum}[X^2] - \text{sum}[X]^2/N) / (N-1))^{1/2}$ $= ((3343.5 - 9643.24/4) / (4-1))^{1/2}$ $= 17.632$	Compute sd of the last 4 measurements.
3	$\text{LCL} = \bar{X} - tS/N^{1/2}$ $= 24.55 - 2.353 * 17.632/4^{1/2}$ $= 3.809$	Compute lower confidence limit for the mean of the last 4 measurements.
4	$\text{UCL} = \bar{X} + tS/N^{1/2}$ $= 24.55 + 2.353 * 17.632/4^{1/2}$ $= 45.291$	Compute upper confidence limit for the mean of the last 4 measurements.
5	$N' = N * (N-1) / 2$ $= 20 * (20-1) / 2$ $= 190$	Number of sample pairs during trend detection period.
6	$S = 1.076$	Sen's estimator of trend.
7	$\text{var}(S) = 946.333$	Variance estimate for slope.
8	$M(S) = (N' \pm Z_{.995} * \text{var}(S)^{1/2}) / 2$ $= (190 \pm 2.576 * 946.333^{1/2}) / 2$ $= [55.378, 134.622]$	Ordinal positions for two-sided lower confidence limits for slope. The LCL and UCL are the M th largest slope estimates for the values shown. When the values are not integers, interpolation is used.
9	$\text{CL}(S) = [-0.881, 4.435]$	Two-sided confidence interval for slope.
10	the interval includes 0	There is no significant trend.

Worksheet 6 - Assessment Monitoring
Trichlorofluoromethane (ug/L) at Sramp 1

<u>Step</u>	<u>Equation</u>	<u>Description</u>
1	$\bar{X} = \text{sum}[X] / N$ $= 56.3 / 4$ $= 14.075$	Compute the mean of the last 4 measurements.
2	$S = ((\text{sum}[X^2] - \text{sum}[X]^2/N) / (N-1))^{1/2}$ $= ((1055.63 - 3169.69/4) / (4-1))^{1/2}$ $= 9.367$	Compute sd of the last 4 measurements.
3	$\text{LCL} = \bar{X} - tS/N^{1/2}$ $= 14.075 - 2.353 * 9.367/4^{1/2}$ $= 3.057$	Compute lower confidence limit for the mean of the last 4 measurements.
4	$\text{UCL} = \bar{X} + tS/N^{1/2}$ $= 14.075 + 2.353 * 9.367/4^{1/2}$ $= 25.093$	Compute upper confidence limit for the mean of the last 4 measurements.
5	$N' = N * (N-1) / 2$ $= 26 * (26-1) / 2$ $= 325$	Number of sample pairs during trend detection period.
6	$S = 0.0$	Sen's estimator of trend.
7	$\text{var}(S) = 2028.0$	Variance estimate for slope.
8	$M(S) = (N' \pm Z_{.995} * \text{var}(S)^{1/2}) / 2$ $= (325 \pm 2.576 * 2028.0^{1/2}) / 2$ $= [104.497, 220.503]$	Ordinal positions for two-sided lower confidence limits for slope. The LCL and UCL are the M th largest slope estimates for the values shown. When the values are not integers, interpolation is used.
9	$\text{CL}(S) = [-1.704, 0.949]$	Two-sided confidence interval for slope.
10	the interval includes 0	There is no significant trend.

Worksheet 6 - Assessment Monitoring
Vinyl chloride (ug/L) at Sramp 1

<u>Step</u>	<u>Equation</u>	<u>Description</u>
1	$\bar{X} = \text{sum}[X] / N$ $= 2.0 / 4$ $= 0.5$	Compute the mean of the last 4 measurements.
2	$S = ((\text{sum}[X^2] - \text{sum}[X]^2/N) / (N-1))^{1/2}$ $= ((1.0 - 4.0/4) / (4-1))^{1/2}$ $= 0.0$	Compute sd of the last 4 measurements.
3	$\text{LCL} = \bar{X} - tS/N^{1/2}$ $= 0.5 - 2.353 * 0.0/4^{1/2}$ $= 0.5$	Compute lower confidence limit for the mean of the last 4 measurements.
4	$\text{UCL} = \bar{X} + tS/N^{1/2}$ $= 0.5 + 2.353 * 0.0/4^{1/2}$ $= 0.5$	Compute upper confidence limit for the mean of the last 4 measurements.
5	$N' = N * (N-1) / 2$ $= 26 * (26-1) / 2$ $= 325$	Number of sample pairs during trend detection period.
6	$S = 0.0$	Sen's estimator of trend.
7	$\text{var}(S) = 797.0$	Variance estimate for slope.
8	$M(S) = (N' \pm Z_{.995} * \text{var}(S)^{1/2}) / 2$ $= (325 \pm 2.576 * 797.0^{1/2}) / 2$ $= [126.138, 198.862]$	Ordinal positions for two-sided lower confidence limits for slope. The LCL and UCL are the M th largest slope estimates for the values shown. When the values are not integers, interpolation is used.
9	$\text{CL}(S) = [0.0, 0.0]$	Two-sided confidence interval for slope.
10	the interval includes 0	There is no significant trend.

APPENDIX B.2 –Fall Statistical Evaluation

GROUND WATER STATISTICS
FOR THE
BOONE COUNTY SANITARY LANDFILL

Second Semi-Annual Monitoring Event in 2025

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INTRODUCTION

This report summarizes the results of the statistical analysis used to evaluate the ground water quality data obtained during the second semi-annual monitoring event in 2025 at the Boone County Sanitary Landfill in Boone County, Iowa. The statistical plan was designed to detect a release from the facility at the earliest indication so that it is protective of human health and the environment. The interwell methodology is described and then applied to the Boone 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 Boone County Sanitary Landfill includes upgradient wells MW88-2, MW91-8, MW98-28, MW02-15A, and MW02-30A, and downgradient detection sample points UD-3, GWD-1, MW88-3, MW91-10, MW94-18, MW94-19, MW96-21, MW96-23, and MW96-24. Detections of volatile organic compounds (VOCs) and statistical exceedances at wells along the north edge of the facility prompted a site remedial and mitigating action plan (SRAMP). Monitoring well MW98-25 situated along the north property line, has had verified VOC detections and inorganic exceedances. Sentinel wells SRAMP 1, SRAMP 2, MW06-37, MW06-38, and MW06-39 were installed to monitor the effectiveness of the SRAMP. Additional sample points (MW09-40 and MW09-42) have been added to monitor the downgradient zone to comply with the well spacing requirements of 113.10(2)e(2).

Each of the groundwater monitoring wells is to be sampled at least semiannually and analyzed for the detection monitoring parameters listed in 113.10(5), which includes 15 inorganic constituents and 47 organic compounds, summarized in Table 1 below.

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

Organic Compounds:

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

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

Inorganic constituents:

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

The ground water data obtained during the second semi-annual monitoring event in 2025 are summarized in Attachment A.

STATISTICAL METHODOLOGIES FOR DETECTION MONITORING

IAC 567, Chapter 113.10(4) provides several options for statistically evaluating the ground water data at those wells that monitor the open cells or contiguous MSWLF units. The preferred methods for comparing ground water data are using either prediction limits or using control charts. The prediction limit method was applied to the Boone 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. As an alternative to nonparametric prediction limits, Poisson prediction limits can be used for small data sets where the detection frequency is less than 25%. Since there was limited background, Poisson prediction limits were previously computed for those rarely detected parameters. Since the Unified Guidance recommends nonparametric limits over Poisson limits, nonparametric limits were used for the current comparisons

Results of the Interwell Statistics

The background data used in this statistical analysis includes the ground water data collected from ground water wells MW88-2, MW91-8, MW98-28, MW02-15A, and MW02-30A during the period from September 2014 through the current data. A summary of the background data from monitoring wells MW88-2, MW91-8, MW98-28, MW02-15A, and MW02-30A, 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 GU-4, MW06-37, MW06-38, MW06-39, MW09-40, MW21-43, MW88-3, MW91-10, MW94-18, MW96-21R, MW96-23, MW96-24, and MW98-25, 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.

Trace Metal Exceedances detected during the Second Semi-Annual Monitoring Event in 2025

Well	Trace Metal	Result, µg/L	Prediction Limit, µg/L	Prediction Limit Type	Verified/ Awaiting Verification
MW98-25	Cobalt	12.3	7.0000	Nonparametric	Verified
	Nickel	27.6	17.4000	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. The background barium data failed a normal distribution so barium uses a nonparametric site prediction limit. Table 5 is a summary of the statistics and prediction limits determined for the metals. Time series graphs of each of the parameters at each well with the corresponding prediction limits are attached.

A statistical power curve indicates the expected false assessments for the site as a whole. The false positive rate for interwell analyses is the percentage of failures when the upgradient versus downgradient true mean difference equals zero. False negative rate indicates the chance of missing contamination at a single well for a single constituent. The statistical power is a function of the number of wells included, the number of constituents compared, the detection frequencies, and the data distributions involved. For interwell analysis, the site-wide false positive rate is 1% and the test becomes sensitive to 4 standard deviation unit increases over background.

The verified exceedances were evaluated against the GWPS using confidence limits (Attachment C). The 95% lower confidence limit (LCL) for the mean of the historical data was used to evaluate whether the regulated unit is in compliance with the ground-water protection standards under 40 CFR 264 (e.g. whether

the verified constituent is detected at a significant level above the GWPS). An exceedance is verified if the LCL is above the Regulatory GWPS.

The 95% LCL for cobalt at MW98-25 (8.924 µg/L) exceeds the Iowa Statewide standard of 2.1 µg/L. The remainder of the calculated 95% LCLs for the verified trace metals are all below the respective ground water standards.

Intrawell statistics

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

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

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

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

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

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

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

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

Results of the Intrawell Statistics

The trace metal data from GU-4 were evaluated using the combined Shewhart-CUSUM control chart method. The background includes the data obtained from 2021 through 2024. There are currently fewer than the recommended minimum of eight rounds of background data available. Control limits were computed with as few as five data points for some parameters. Insufficient data exists for nonparametric cases.

A summary of the intrawell statistics is included in Attachment D, Table 1 “Summary Statistics and Intermediate Computations for Combined Shewhart-CUSUM Control Charts.” The control charts or time series graphs follow the summary table. For the most current data, there are no control limit exceedances detected for the limited cases tested. No increasing trends were detected in the background data.

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 Boone County Landfill during the second semi-annual monitoring event in 2025 are summarized below.

VOCs detected during the Second Semi-Annual Monitoring Event in 2025

Well	VOC Detected	Result, µg/L	Reporting Limit, µg/L	Verified/ Awaiting Verification	Ground Water Standard
MW98-25	1,1-Dichloroethane	1.0	1	Verified	140 ^b
	1,4-Dichlorobenzene	2.7	1	Verified	75 ^a
	Benzene	1.4	1	Awaiting Verification	5 ^a
	Chlorobenzene	1.4	1	Awaiting Verification	100 ^a
	Chloroethane	1.4	1	Awaiting Verification	2800 ^b
	cis-1,2-Dichloroethene	2.4	1	Verified	70 ^a

a - USEPA MCL

b – Iowa Statewide Standard

Historical VOC detections are summarized in Attachment E.

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

The 95% LCLs for the verified VOCs are all below the respective ground water standards.

Attachment A

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

Table 1

Analytical Data Summary for 9/9/2025

Constituents	Units	GU-4	MW02-15A	MW02-30A	MW06-37	MW06-38	MW06-39	MW09-40	MW21-43	MW88-2	MW88-3	MW91-10	MW91-8	MW94-18
1,1,1,2-tetrachloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-trichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-trichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-dichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,3-trichloropropane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dibromo-3-chloropropane	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
1,2-dibromoethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichlorobenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloroethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloropropane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-dichlorobenzene	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2-butanone (mek)	ug/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
2-hexanone (mbk)	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
4-methyl-2-pentanone (mibk)	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Acetone	ug/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Acrylonitrile	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Antimony, total	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.9	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Arsenic, total	ug/L	2.4	<2.0	43.0	<2.0	<2.0	<2.0	2.0	5.7	<2.0	<2.0	<2.0	<2.0	<2.0
Barium, total	ug/L	477.0	40.3	89.1	112.0	203.0	159.0	22.4	200.0	169.0	124.0	35.7	109.0	31.5
Benzene	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Beryllium, total	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Bromochloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromodichloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromoform	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromomethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cadmium, total	ug/L	<2	.3	<2	<2	.2	.2	<2	.2	.2	2.4	<2	.2	1.8
Carbon disulfide	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon tetrachloride	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzene	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroethane	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroform	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chromium, total	ug/L	<1.0	3.0	<1.0	<1.0	3.4	1.2	1.1	<1.0	2.2	<1.0	<1.0	<1.0	1.1
Cis-1,2-dichloroethylene	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Cis-1,3-dichloropropene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cobalt, total	ug/L	.8	1.6	<5	<5	.8	<5	.9	<5	1.1	.7	.8	<5	.7
Copper, total	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	14.5	<5.0	<5.0	<5.0	9.2
Dibromochloromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromomethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Lead, total	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methyl iodide	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Methylene chloride	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Nickel, total	ug/L	<5.0	9.8	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	6.9	<5.0	<5.0	<5.0	15.6
Selenium, total	ug/L	<2.0	<2.0	<2.0	2.5	4.6	2.5	3.6	<2.0	<2.0	<2.0	4.9	3.3	2.4
Silver, total	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Styrene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Thallium, total	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Toluene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,2-dichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trans-1,3-dichloropropene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1

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

Table 1

Analytical Data Summary for 9/9/2025

Constituents	MW96-21R	MW96-23	MW96-24	MW98-25	MW98-28
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-dichloroethylene	<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	<1.0	<1.0	<1.0	2.7	<1.0
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	<1.0	<1.0	<1.0	<1.0	<1.0
Arsenic, total	12.4	39.2	<2.0	7.6	<2.0
Barium, total	369.0	704.0	559.0	87.7	237.0
Benzene	<1.0	<1.0	<1.0	1.4	<1.0
Beryllium, total	<.5	<.5	<.5	<.5	<.5
Bromochloromethane	<1	<1	<1	<1	<1
Bromodichloromethane	<1	<1	<1	<1	<1
Bromoform	<1	<1	<1	<1	<1
Bromomethane	<1	<1	<1	<1	<1
Cadmium, total	<.2	<.2	.2	<.2	<.2
Carbon disulfide	<1	<1	<1	<1	<1
Carbon tetrachloride	<1	<1	<1	<1	<1
Chlorobenzene	<1.0	<1.0	<1.0	1.4	<1.0
Chloroethane	<1.0	<1.0	<1.0	1.4	<1.0
Chloroform	<1	<1	<1	<1	<1
Chloromethane	<1	<1	<1	<1	<1
Chromium, total	2.4	1.0	<1.0	1.6	2.8
Cis-1,2-dichloroethylene	<1.0	<1.0	<1.0	2.4	<1.0
Cis-1,3-dichloropropene	<1	<1	<1	<1	<1
Cobalt, total	.8	<.5	.6	12.3	1.1
Copper, total	6.5	<5.0	<5.0	<5.0	<5.0
Dibromochloromethane	<1	<1	<1	<1	<1
Dibromomethane	<1	<1	<1	<1	<1
Ethylbenzene	<1	<1	<1	<1	<1
Lead, total	<1	<1	<1	<1	<1
Methyl iodide	<1	<1	<1	<1	<1
Methylene chloride	<5	<5	<5	<5	<5
Nickel, total	<5.0	<5.0	<5.0	27.6	8.2
Selenium, total	<2.0	<2.0	<2.0	<2.0	<2.0
Silver, total	<5	<5	<5	<5	<5
Styrene	<1	<1	<1	<1	<1
Tetrachloroethylene	<1	<1	<1	<1	<1
Thallium, total	<.5	<.5	<.5	<.5	<.5
Toluene	<1	<1	<1	<1	<1
Trans-1,2-dichloroethylene	<1	<1	<1	<1	<1
Trans-1,3-dichloropropene	<1	<1	<1	<1	<1

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

Table 1

Analytical Data Summary for 9/9/2025

Constituents	Units	GU-4	MW02-15A	MW02-30A	MW06-37	MW06-38	MW06-39	MW09-40	MW21-43	MW88-2	MW88-3	MW91-10	MW91-8	MW94-18
Trans-1,4-dichloro-2-butene	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Trichloroethylene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichlorofluoromethane	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vanadium, total	ug/L	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Vinyl acetate	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Vinyl chloride	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes, total	ug/L	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Zinc, total	ug/L	34.1	17.6	6.3	5.1	11.1	8.5	9.2	11.7	12.0	7.9	15.8	6.3	16.7

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

Table 1

Analytical Data Summary for 9/9/2025

Constituents	MW96-21R	MW96-23	MW96-24	MW98-25	MW98-28
Trans-1,4-dichloro-2-butene	<5	<5	<5	<5	<5
Trichloroethylene	<1	<1	<1	<1	<1
Trichlorofluoromethane	<1	<1	<1	<1	<1
Vanadium, total	<2	<2	<2	<2	<2
Vinyl acetate	<5	<5	<5	<5	<5
Vinyl chloride	<1	<1	<1	<1	<1
Xylenes, total	<2	<2	<2	<2	<2
Zinc, total	11.7	10.2	10.7	<5.0	6.3

* - 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	MW02-15A	09/18/2014	ND	2.0000		
Antimony, total	ug/L	MW02-15A	11/13/2014	ND	2.0000		
Antimony, total	ug/L	MW02-15A	03/17/2015	ND	2.0000		
Antimony, total	ug/L	MW02-15A	06/29/2015	ND	2.0000		
Antimony, total	ug/L	MW02-15A	09/11/2015	ND	2.0000		
Antimony, total	ug/L	MW02-15A	03/16/2016	ND	2.0000		
Antimony, total	ug/L	MW02-15A	09/08/2016	ND	2.0000		
Antimony, total	ug/L	MW02-15A	03/17/2017	ND	2.0000		
Antimony, total	ug/L	MW02-15A	09/19/2017	ND	2.0000		
Antimony, total	ug/L	MW02-15A	03/08/2018	ND	2.0000		
Antimony, total	ug/L	MW02-15A	09/24/2018	ND	2.0000		
Antimony, total	ug/L	MW02-15A	03/25/2019	ND	2.0000		
Antimony, total	ug/L	MW02-15A	09/03/2019	ND	2.0000		
Antimony, total	ug/L	MW02-15A	03/23/2020	ND	2.0000		
Antimony, total	ug/L	MW02-15A	09/04/2020	ND	2.0000		
Antimony, total	ug/L	MW02-15A	03/09/2021	ND	2.0000		
Antimony, total	ug/L	MW02-15A	09/07/2021	ND	2.0000		
Antimony, total	ug/L	MW02-15A	03/28/2022	ND	2.0000		
Antimony, total	ug/L	MW02-15A	09/14/2022	ND	2.0000		
Antimony, total	ug/L	MW02-15A	03/20/2023	ND	2.0000		
Antimony, total	ug/L	MW02-15A	09/12/2023	ND	2.0000		
Antimony, total	ug/L	MW02-15A	03/12/2024	ND	2.0000		
Antimony, total	ug/L	MW02-15A	09/30/2024	ND	2.0000		
Antimony, total	ug/L	MW02-15A	03/24/2025	ND	2.0000		
Antimony, total	ug/L	MW02-15A	09/09/2025	ND	1.0000	2.0000	**
Arsenic, total	ug/L	MW02-15A	09/18/2014	ND	4.0000		
Arsenic, total	ug/L	MW02-15A	11/13/2014	ND	4.0000		
Arsenic, total	ug/L	MW02-15A	03/17/2015	ND	4.0000		
Arsenic, total	ug/L	MW02-15A	06/29/2015	ND	4.0000		
Arsenic, total	ug/L	MW02-15A	09/11/2015	ND	4.0000		
Arsenic, total	ug/L	MW02-15A	03/16/2016	ND	4.0000		
Arsenic, total	ug/L	MW02-15A	09/08/2016	ND	4.0000		
Arsenic, total	ug/L	MW02-15A	03/17/2017	ND	4.0000		
Arsenic, total	ug/L	MW02-15A	09/19/2017	ND	4.0000		
Arsenic, total	ug/L	MW02-15A	03/08/2018	ND	4.0000		
Arsenic, total	ug/L	MW02-15A	09/24/2018	ND	4.0000		
Arsenic, total	ug/L	MW02-15A	03/25/2019	ND	4.0000		
Arsenic, total	ug/L	MW02-15A	09/03/2019	ND	4.0000		
Arsenic, total	ug/L	MW02-15A	03/23/2020	ND	4.0000		
Arsenic, total	ug/L	MW02-15A	09/04/2020	ND	4.0000		
Arsenic, total	ug/L	MW02-15A	03/09/2021	ND	4.0000		
Arsenic, total	ug/L	MW02-15A	09/07/2021	ND	4.0000		
Arsenic, total	ug/L	MW02-15A	03/28/2022	ND	4.0000		
Arsenic, total	ug/L	MW02-15A	09/14/2022	ND	4.0000		
Arsenic, total	ug/L	MW02-15A	03/20/2023	ND	4.0000		
Arsenic, total	ug/L	MW02-15A	09/12/2023	ND	4.0000		
Arsenic, total	ug/L	MW02-15A	03/12/2024	ND	4.0000		
Arsenic, total	ug/L	MW02-15A	09/30/2024	ND	4.0000		
Arsenic, total	ug/L	MW02-15A	03/24/2025	ND	4.0000		
Arsenic, total	ug/L	MW02-15A	09/09/2025	ND	2.0000	4.0000	**
Barium, total	ug/L	MW02-15A	09/18/2014		33.4000		

* - Outlier for that well and constituent.

** - ND value replaced with median RL.

*** - ND value replaced with manual RL.

ND = Not detected, Result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Barium, total	ug/L	MW02-15A	11/13/2014		33.1000		
Barium, total	ug/L	MW02-15A	03/17/2015		30.2000		
Barium, total	ug/L	MW02-15A	06/29/2015		28.7000		
Barium, total	ug/L	MW02-15A	09/11/2015		34.8000		
Barium, total	ug/L	MW02-15A	03/16/2016		40.4000		
Barium, total	ug/L	MW02-15A	09/08/2016		44.8000		
Barium, total	ug/L	MW02-15A	03/17/2017		43.5000		
Barium, total	ug/L	MW02-15A	09/19/2017		36.0000		
Barium, total	ug/L	MW02-15A	03/08/2018		31.9000		
Barium, total	ug/L	MW02-15A	09/24/2018		32.2000		
Barium, total	ug/L	MW02-15A	03/25/2019		30.0000		
Barium, total	ug/L	MW02-15A	09/03/2019		30.4000		
Barium, total	ug/L	MW02-15A	03/23/2020		32.0000		
Barium, total	ug/L	MW02-15A	09/04/2020		40.0000		
Barium, total	ug/L	MW02-15A	03/09/2021		38.9000		
Barium, total	ug/L	MW02-15A	09/07/2021		75.3000		
Barium, total	ug/L	MW02-15A	03/28/2022		46.2000		
Barium, total	ug/L	MW02-15A	09/14/2022		39.2000		
Barium, total	ug/L	MW02-15A	03/20/2023		42.8000		
Barium, total	ug/L	MW02-15A	09/12/2023		35.9000		
Barium, total	ug/L	MW02-15A	03/12/2024		38.9000		
Barium, total	ug/L	MW02-15A	09/30/2024		34.9000		
Barium, total	ug/L	MW02-15A	03/24/2025		32.6000		
Barium, total	ug/L	MW02-15A	09/09/2025		40.3000		
Beryllium, total	ug/L	MW02-15A	09/18/2014	ND	4.0000		
Beryllium, total	ug/L	MW02-15A	11/13/2014	ND	4.0000		
Beryllium, total	ug/L	MW02-15A	03/17/2015	ND	4.0000		
Beryllium, total	ug/L	MW02-15A	06/29/2015	ND	4.0000		
Beryllium, total	ug/L	MW02-15A	09/11/2015	ND	4.0000		
Beryllium, total	ug/L	MW02-15A	03/16/2016	ND	4.0000		
Beryllium, total	ug/L	MW02-15A	09/08/2016	ND	4.0000		
Beryllium, total	ug/L	MW02-15A	03/17/2017	ND	4.0000		
Beryllium, total	ug/L	MW02-15A	09/19/2017	ND	4.0000		
Beryllium, total	ug/L	MW02-15A	03/08/2018	ND	4.0000		
Beryllium, total	ug/L	MW02-15A	09/24/2018	ND	4.0000		
Beryllium, total	ug/L	MW02-15A	03/25/2019	ND	4.0000		
Beryllium, total	ug/L	MW02-15A	09/03/2019	ND	4.0000		
Beryllium, total	ug/L	MW02-15A	03/23/2020	ND	4.0000		
Beryllium, total	ug/L	MW02-15A	09/04/2020	ND	4.0000		
Beryllium, total	ug/L	MW02-15A	03/09/2021	ND	4.0000		
Beryllium, total	ug/L	MW02-15A	09/07/2021	ND	4.0000		
Beryllium, total	ug/L	MW02-15A	03/28/2022	ND	4.0000		
Beryllium, total	ug/L	MW02-15A	09/14/2022	ND	4.0000		
Beryllium, total	ug/L	MW02-15A	03/20/2023	ND	4.0000		
Beryllium, total	ug/L	MW02-15A	09/12/2023	ND	4.0000		
Beryllium, total	ug/L	MW02-15A	03/12/2024	ND	4.0000		
Beryllium, total	ug/L	MW02-15A	09/30/2024	ND	4.0000		
Beryllium, total	ug/L	MW02-15A	03/24/2025	ND	4.0000		
Beryllium, total	ug/L	MW02-15A	09/09/2025	ND	0.5000		*
Cadmium, total	ug/L	MW02-15A	09/18/2014	ND	0.8000		
Cadmium, total	ug/L	MW02-15A	11/13/2014	ND	0.8000		

* - Outlier for that well and constituent.

** - ND value replaced with median RL.

*** - ND value replaced with manual RL.

ND = Not detected, Result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Cadmium, total	ug/L	MW02-15A	03/17/2015	ND	0.8000		*
Cadmium, total	ug/L	MW02-15A	06/29/2015	ND	0.8000		
Cadmium, total	ug/L	MW02-15A	09/11/2015	ND	0.8000		
Cadmium, total	ug/L	MW02-15A	03/16/2016		3.6000		
Cadmium, total	ug/L	MW02-15A	09/08/2016	ND	0.8000		
Cadmium, total	ug/L	MW02-15A	03/17/2017	ND	0.8000		
Cadmium, total	ug/L	MW02-15A	09/19/2017	ND	0.8000		
Cadmium, total	ug/L	MW02-15A	03/08/2018	ND	0.8000		
Cadmium, total	ug/L	MW02-15A	09/24/2018	ND	0.8000		
Cadmium, total	ug/L	MW02-15A	03/25/2019	ND	0.8000		
Cadmium, total	ug/L	MW02-15A	09/03/2019	ND	0.8000		
Cadmium, total	ug/L	MW02-15A	03/23/2020	ND	0.8000		
Cadmium, total	ug/L	MW02-15A	09/04/2020	ND	0.8000		
Cadmium, total	ug/L	MW02-15A	03/09/2021	ND	0.8000		
Cadmium, total	ug/L	MW02-15A	09/07/2021		0.9000		
Cadmium, total	ug/L	MW02-15A	03/28/2022	ND	0.8000		
Cadmium, total	ug/L	MW02-15A	09/14/2022	ND	0.8000		
Cadmium, total	ug/L	MW02-15A	03/20/2023	ND	0.8000		
Cadmium, total	ug/L	MW02-15A	09/12/2023	ND	0.8000		
Cadmium, total	ug/L	MW02-15A	03/12/2024	ND	0.8000		
Cadmium, total	ug/L	MW02-15A	09/30/2024	ND	0.8000		
Cadmium, total	ug/L	MW02-15A	03/24/2025	ND	0.8000		
Cadmium, total	ug/L	MW02-15A	09/09/2025		0.3000		
Chromium, total	ug/L	MW02-15A	09/18/2014	ND	8.0000		
Chromium, total	ug/L	MW02-15A	11/13/2014	ND	8.0000		
Chromium, total	ug/L	MW02-15A	03/17/2015	ND	8.0000		
Chromium, total	ug/L	MW02-15A	06/29/2015	ND	8.0000		
Chromium, total	ug/L	MW02-15A	09/11/2015	ND	8.0000		
Chromium, total	ug/L	MW02-15A	03/16/2016	ND	8.0000		
Chromium, total	ug/L	MW02-15A	09/08/2016	ND	8.0000		
Chromium, total	ug/L	MW02-15A	03/17/2017	ND	8.0000		
Chromium, total	ug/L	MW02-15A	09/19/2017	ND	8.0000		
Chromium, total	ug/L	MW02-15A	03/08/2018	ND	8.0000		
Chromium, total	ug/L	MW02-15A	09/24/2018	ND	8.0000		
Chromium, total	ug/L	MW02-15A	03/25/2019	ND	8.0000		
Chromium, total	ug/L	MW02-15A	09/03/2019	ND	8.0000		
Chromium, total	ug/L	MW02-15A	03/23/2020	ND	8.0000		
Chromium, total	ug/L	MW02-15A	09/04/2020	ND	8.0000		
Chromium, total	ug/L	MW02-15A	03/09/2021	ND	8.0000		
Chromium, total	ug/L	MW02-15A	09/07/2021	ND	8.0000		
Chromium, total	ug/L	MW02-15A	03/28/2022	ND	8.0000		
Chromium, total	ug/L	MW02-15A	09/14/2022	ND	8.0000		
Chromium, total	ug/L	MW02-15A	03/20/2023	ND	8.0000		
Chromium, total	ug/L	MW02-15A	09/12/2023	ND	8.0000		
Chromium, total	ug/L	MW02-15A	03/12/2024	ND	8.0000		
Chromium, total	ug/L	MW02-15A	09/30/2024	ND	8.0000		
Chromium, total	ug/L	MW02-15A	03/24/2025	ND	8.0000		
Chromium, total	ug/L	MW02-15A	09/09/2025		3.0000		
Cobalt, total	ug/L	MW02-15A	09/18/2014	ND	0.8000		
Cobalt, total	ug/L	MW02-15A	11/13/2014	ND	0.8000		
Cobalt, total	ug/L	MW02-15A	03/17/2015	ND	0.8000		

* - Outlier for that well and constituent.

** - ND value replaced with median RL.

*** - ND value replaced with manual RL.

ND = Not detected, Result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Cobalt, total	ug/L	MW02-15A	06/29/2015	ND	0.8000		
Cobalt, total	ug/L	MW02-15A	09/11/2015		0.8000		
Cobalt, total	ug/L	MW02-15A	03/16/2016	ND	0.8000		
Cobalt, total	ug/L	MW02-15A	09/08/2016		1.4000		
Cobalt, total	ug/L	MW02-15A	03/17/2017		1.5000		
Cobalt, total	ug/L	MW02-15A	09/19/2017	ND	0.8000		
Cobalt, total	ug/L	MW02-15A	03/08/2018	ND	0.8000		
Cobalt, total	ug/L	MW02-15A	09/24/2018	ND	0.8000		
Cobalt, total	ug/L	MW02-15A	03/25/2019	ND	0.8000		
Cobalt, total	ug/L	MW02-15A	09/03/2019		0.9000		
Cobalt, total	ug/L	MW02-15A	03/23/2020		1.6000		
Cobalt, total	ug/L	MW02-15A	09/04/2020		2.8000		
Cobalt, total	ug/L	MW02-15A	03/09/2021		5.8000		
Cobalt, total	ug/L	MW02-15A	09/07/2021		5.7000		
Cobalt, total	ug/L	MW02-15A	03/28/2022		3.2000		
Cobalt, total	ug/L	MW02-15A	09/14/2022		6.2000		
Cobalt, total	ug/L	MW02-15A	03/20/2023		3.6000		
Cobalt, total	ug/L	MW02-15A	09/12/2023		1.1000		
Cobalt, total	ug/L	MW02-15A	03/12/2024		1.2000		
Cobalt, total	ug/L	MW02-15A	09/30/2024		0.9000		
Cobalt, total	ug/L	MW02-15A	03/24/2025		0.4000		
Cobalt, total	ug/L	MW02-15A	09/09/2025		1.6000		
Copper, total	ug/L	MW02-15A	09/18/2014		7.8000		
Copper, total	ug/L	MW02-15A	11/13/2014	ND	4.0000		
Copper, total	ug/L	MW02-15A	03/17/2015	ND	4.0000		
Copper, total	ug/L	MW02-15A	06/29/2015	ND	4.0000		
Copper, total	ug/L	MW02-15A	09/11/2015	ND	4.0000		
Copper, total	ug/L	MW02-15A	03/16/2016	ND	4.0000		
Copper, total	ug/L	MW02-15A	09/08/2016	ND	4.0000		
Copper, total	ug/L	MW02-15A	03/17/2017	ND	4.0000		
Copper, total	ug/L	MW02-15A	09/19/2017	ND	4.0000		
Copper, total	ug/L	MW02-15A	03/08/2018	ND	4.0000		
Copper, total	ug/L	MW02-15A	09/24/2018	ND	4.0000		
Copper, total	ug/L	MW02-15A	03/25/2019	ND	4.0000		
Copper, total	ug/L	MW02-15A	09/03/2019	ND	4.0000		
Copper, total	ug/L	MW02-15A	03/23/2020	ND	4.0000		
Copper, total	ug/L	MW02-15A	09/04/2020	ND	4.0000		
Copper, total	ug/L	MW02-15A	03/09/2021		26.0000		*
Copper, total	ug/L	MW02-15A	09/07/2021	ND	4.0000		
Copper, total	ug/L	MW02-15A	03/28/2022	ND	4.0000		
Copper, total	ug/L	MW02-15A	09/14/2022	ND	4.0000		
Copper, total	ug/L	MW02-15A	03/20/2023	ND	4.0000		
Copper, total	ug/L	MW02-15A	09/12/2023	ND	4.0000		
Copper, total	ug/L	MW02-15A	03/12/2024	ND	4.0000		
Copper, total	ug/L	MW02-15A	09/30/2024	ND	4.0000		
Copper, total	ug/L	MW02-15A	03/24/2025	ND	4.0000		
Copper, total	ug/L	MW02-15A	09/09/2025	ND	5.0000	4.0000	**
Lead, total	ug/L	MW02-15A	09/18/2014		22.3000		*
Lead, total	ug/L	MW02-15A	11/13/2014	ND	4.0000		
Lead, total	ug/L	MW02-15A	03/17/2015	ND	4.0000		
Lead, total	ug/L	MW02-15A	06/29/2015	ND	4.0000		

* - Outlier for that well and constituent.

** - ND value replaced with median RL.

*** - ND value replaced with manual RL.

ND = Not detected, Result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Lead, total	ug/L	MW02-15A	09/11/2015	ND	4.0000		
Lead, total	ug/L	MW02-15A	03/16/2016	ND	4.0000		
Lead, total	ug/L	MW02-15A	09/08/2016	ND	4.0000		
Lead, total	ug/L	MW02-15A	03/17/2017	ND	4.0000		
Lead, total	ug/L	MW02-15A	09/19/2017	ND	4.0000		
Lead, total	ug/L	MW02-15A	03/08/2018	ND	4.0000		
Lead, total	ug/L	MW02-15A	09/24/2018	ND	4.0000		
Lead, total	ug/L	MW02-15A	03/25/2019	ND	4.0000		
Lead, total	ug/L	MW02-15A	09/03/2019	ND	4.0000		
Lead, total	ug/L	MW02-15A	03/23/2020	ND	4.0000		
Lead, total	ug/L	MW02-15A	09/04/2020	ND	4.0000		
Lead, total	ug/L	MW02-15A	03/09/2021	ND	4.0000		
Lead, total	ug/L	MW02-15A	09/07/2021	ND	4.0000		
Lead, total	ug/L	MW02-15A	03/28/2022	ND	4.0000		
Lead, total	ug/L	MW02-15A	09/14/2022	ND	4.0000		
Lead, total	ug/L	MW02-15A	03/20/2023	ND	4.0000		
Lead, total	ug/L	MW02-15A	09/12/2023	ND	4.0000		
Lead, total	ug/L	MW02-15A	03/12/2024	ND	4.0000		
Lead, total	ug/L	MW02-15A	09/30/2024	ND	4.0000		
Lead, total	ug/L	MW02-15A	03/24/2025	ND	4.0000		
Lead, total	ug/L	MW02-15A	09/09/2025	ND	1.0000		*
Nickel, total	ug/L	MW02-15A	09/18/2014		10.4000		
Nickel, total	ug/L	MW02-15A	11/13/2014	ND	4.0000		
Nickel, total	ug/L	MW02-15A	03/17/2015	ND	4.0000		
Nickel, total	ug/L	MW02-15A	06/29/2015		5.6000		
Nickel, total	ug/L	MW02-15A	09/11/2015		8.3000		
Nickel, total	ug/L	MW02-15A	03/16/2016		10.3000		
Nickel, total	ug/L	MW02-15A	09/08/2016		14.0000		
Nickel, total	ug/L	MW02-15A	03/17/2017		11.9000		
Nickel, total	ug/L	MW02-15A	09/19/2017	ND	4.0000		
Nickel, total	ug/L	MW02-15A	03/08/2018	ND	4.0000		
Nickel, total	ug/L	MW02-15A	09/24/2018		5.7000		
Nickel, total	ug/L	MW02-15A	03/25/2019		9.9000		
Nickel, total	ug/L	MW02-15A	09/03/2019		9.1000		
Nickel, total	ug/L	MW02-15A	03/23/2020		9.7000		
Nickel, total	ug/L	MW02-15A	09/04/2020		9.9000		
Nickel, total	ug/L	MW02-15A	03/09/2021		9.6000		
Nickel, total	ug/L	MW02-15A	09/07/2021		17.3000		
Nickel, total	ug/L	MW02-15A	03/28/2022		11.3000		
Nickel, total	ug/L	MW02-15A	09/14/2022		8.8000		
Nickel, total	ug/L	MW02-15A	03/20/2023		9.8000		
Nickel, total	ug/L	MW02-15A	09/12/2023		8.4000		
Nickel, total	ug/L	MW02-15A	03/12/2024		6.6000		
Nickel, total	ug/L	MW02-15A	09/30/2024		6.3000		
Nickel, total	ug/L	MW02-15A	03/24/2025		4.4000		
Nickel, total	ug/L	MW02-15A	09/09/2025		9.8000		
Selenium, total	ug/L	MW02-15A	09/18/2014	ND	4.0000		
Selenium, total	ug/L	MW02-15A	11/13/2014	ND	4.0000		
Selenium, total	ug/L	MW02-15A	03/17/2015	ND	4.0000		
Selenium, total	ug/L	MW02-15A	06/29/2015	ND	4.0000		
Selenium, total	ug/L	MW02-15A	09/11/2015	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	MW02-15A	03/16/2016	ND	4.0000		
Selenium, total	ug/L	MW02-15A	09/08/2016	ND	4.0000		
Selenium, total	ug/L	MW02-15A	03/17/2017	ND	4.0000		
Selenium, total	ug/L	MW02-15A	09/19/2017	ND	4.0000		
Selenium, total	ug/L	MW02-15A	03/08/2018	ND	4.0000		
Selenium, total	ug/L	MW02-15A	09/24/2018	ND	4.0000		
Selenium, total	ug/L	MW02-15A	03/25/2019	ND	4.0000		
Selenium, total	ug/L	MW02-15A	09/03/2019	ND	4.0000		
Selenium, total	ug/L	MW02-15A	03/23/2020	ND	4.0000		
Selenium, total	ug/L	MW02-15A	09/04/2020	ND	4.0000		
Selenium, total	ug/L	MW02-15A	03/09/2021	ND	4.0000		
Selenium, total	ug/L	MW02-15A	09/07/2021	ND	4.0000		
Selenium, total	ug/L	MW02-15A	03/28/2022	ND	4.0000		
Selenium, total	ug/L	MW02-15A	09/14/2022	ND	4.0000		
Selenium, total	ug/L	MW02-15A	03/20/2023	ND	4.0000		
Selenium, total	ug/L	MW02-15A	09/12/2023	ND	4.0000		
Selenium, total	ug/L	MW02-15A	03/12/2024	ND	4.0000		
Selenium, total	ug/L	MW02-15A	09/30/2024	ND	4.0000		
Selenium, total	ug/L	MW02-15A	03/24/2025	ND	4.0000		
Selenium, total	ug/L	MW02-15A	09/09/2025	ND	2.0000	4.0000	**
Silver, total	ug/L	MW02-15A	09/18/2014	ND	4.0000		
Silver, total	ug/L	MW02-15A	11/13/2014	ND	4.0000		
Silver, total	ug/L	MW02-15A	03/17/2015	ND	4.0000		
Silver, total	ug/L	MW02-15A	06/29/2015	ND	4.0000		
Silver, total	ug/L	MW02-15A	09/11/2015	ND	4.0000		
Silver, total	ug/L	MW02-15A	03/16/2016	ND	4.0000		
Silver, total	ug/L	MW02-15A	09/08/2016	ND	4.0000		
Silver, total	ug/L	MW02-15A	03/17/2017	ND	4.0000		
Silver, total	ug/L	MW02-15A	09/19/2017	ND	4.0000		
Silver, total	ug/L	MW02-15A	03/08/2018	ND	4.0000		
Silver, total	ug/L	MW02-15A	09/24/2018	ND	4.0000		
Silver, total	ug/L	MW02-15A	03/25/2019	ND	4.0000		
Silver, total	ug/L	MW02-15A	09/03/2019	ND	4.0000		
Silver, total	ug/L	MW02-15A	03/23/2020	ND	4.0000		
Silver, total	ug/L	MW02-15A	09/04/2020	ND	4.0000		
Silver, total	ug/L	MW02-15A	03/09/2021	ND	4.0000		
Silver, total	ug/L	MW02-15A	09/07/2021	ND	4.0000		
Silver, total	ug/L	MW02-15A	03/28/2022	ND	4.0000		
Silver, total	ug/L	MW02-15A	09/14/2022	ND	4.0000		
Silver, total	ug/L	MW02-15A	03/20/2023	ND	4.0000		
Silver, total	ug/L	MW02-15A	09/12/2023	ND	4.0000		
Silver, total	ug/L	MW02-15A	03/12/2024	ND	4.0000		
Silver, total	ug/L	MW02-15A	09/30/2024	ND	4.0000		
Silver, total	ug/L	MW02-15A	03/24/2025	ND	4.0000		
Silver, total	ug/L	MW02-15A	09/09/2025	ND	5.0000	4.0000	**
Thallium, total	ug/L	MW02-15A	09/18/2014	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW02-15A	11/13/2014	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW02-15A	03/17/2015	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW02-15A	06/29/2015	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW02-15A	09/11/2015	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW02-15A	03/16/2016	ND	4.0000	2.0000	**

* - Outlier for that well and constituent.

** - ND value replaced with median RL.

*** - ND value replaced with manual RL.

ND = Not detected, Result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Thallium, total	ug/L	MW02-15A	09/08/2016	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW02-15A	03/17/2017	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW02-15A	09/19/2017	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW02-15A	03/08/2018	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW02-15A	09/24/2018	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW02-15A	03/25/2019	ND	2.0000		
Thallium, total	ug/L	MW02-15A	09/03/2019	ND	2.0000		
Thallium, total	ug/L	MW02-15A	03/23/2020	ND	2.0000		
Thallium, total	ug/L	MW02-15A	09/04/2020	ND	2.0000		
Thallium, total	ug/L	MW02-15A	03/09/2021	ND	2.0000		
Thallium, total	ug/L	MW02-15A	09/07/2021	ND	2.0000		
Thallium, total	ug/L	MW02-15A	03/28/2022	ND	2.0000		
Thallium, total	ug/L	MW02-15A	09/14/2022	ND	2.0000		
Thallium, total	ug/L	MW02-15A	03/20/2023	ND	2.0000		
Thallium, total	ug/L	MW02-15A	09/12/2023	ND	2.0000		
Thallium, total	ug/L	MW02-15A	03/12/2024	ND	2.0000		
Thallium, total	ug/L	MW02-15A	09/30/2024	ND	2.0000		
Thallium, total	ug/L	MW02-15A	03/24/2025	ND	2.0000		
Thallium, total	ug/L	MW02-15A	09/09/2025	ND	0.5000		*
Vanadium, total	ug/L	MW02-15A	09/18/2014	ND	20.0000		
Vanadium, total	ug/L	MW02-15A	11/13/2014	ND	20.0000		
Vanadium, total	ug/L	MW02-15A	03/17/2015	ND	20.0000		
Vanadium, total	ug/L	MW02-15A	06/29/2015	ND	20.0000		
Vanadium, total	ug/L	MW02-15A	09/11/2015	ND	20.0000		
Vanadium, total	ug/L	MW02-15A	03/16/2016	ND	20.0000		
Vanadium, total	ug/L	MW02-15A	09/08/2016	ND	20.0000		
Vanadium, total	ug/L	MW02-15A	03/17/2017	ND	20.0000		
Vanadium, total	ug/L	MW02-15A	09/19/2017	ND	20.0000		
Vanadium, total	ug/L	MW02-15A	03/08/2018	ND	20.0000		
Vanadium, total	ug/L	MW02-15A	09/24/2018	ND	20.0000		
Vanadium, total	ug/L	MW02-15A	03/25/2019	ND	20.0000		
Vanadium, total	ug/L	MW02-15A	09/03/2019	ND	20.0000		
Vanadium, total	ug/L	MW02-15A	03/23/2020	ND	20.0000		
Vanadium, total	ug/L	MW02-15A	09/04/2020	ND	20.0000		
Vanadium, total	ug/L	MW02-15A	03/09/2021	ND	20.0000		
Vanadium, total	ug/L	MW02-15A	09/07/2021	ND	20.0000		
Vanadium, total	ug/L	MW02-15A	03/28/2022	ND	20.0000		
Vanadium, total	ug/L	MW02-15A	09/14/2022	ND	20.0000		
Vanadium, total	ug/L	MW02-15A	03/20/2023	ND	20.0000		
Vanadium, total	ug/L	MW02-15A	09/12/2023	ND	20.0000		
Vanadium, total	ug/L	MW02-15A	03/12/2024	ND	20.0000		
Vanadium, total	ug/L	MW02-15A	09/30/2024	ND	20.0000		
Vanadium, total	ug/L	MW02-15A	03/24/2025	ND	20.0000		
Vanadium, total	ug/L	MW02-15A	09/09/2025	ND	2.0000		*
Zinc, total	ug/L	MW02-15A	09/18/2014		11.3000		
Zinc, total	ug/L	MW02-15A	11/13/2014	ND	20.0000		
Zinc, total	ug/L	MW02-15A	03/17/2015	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW02-15A	06/29/2015	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW02-15A	09/11/2015	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW02-15A	03/16/2016	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW02-15A	09/08/2016	ND	8.0000	20.0000	**

* - Outlier for that well and constituent.

** - ND value replaced with median RL.

*** - ND value replaced with manual RL.

ND = Not detected, Result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Zinc, total	ug/L	MW02-15A	03/17/2017	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW02-15A	09/19/2017	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW02-15A	03/08/2018		9.3000		
Zinc, total	ug/L	MW02-15A	09/24/2018	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW02-15A	03/25/2019	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW02-15A	09/03/2019	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW02-15A	03/23/2020	ND	20.0000		
Zinc, total	ug/L	MW02-15A	09/04/2020	ND	20.0000		
Zinc, total	ug/L	MW02-15A	03/09/2021	ND	20.0000		
Zinc, total	ug/L	MW02-15A	09/07/2021	ND	20.0000		
Zinc, total	ug/L	MW02-15A	03/28/2022	ND	20.0000		
Zinc, total	ug/L	MW02-15A	09/14/2022	ND	20.0000		
Zinc, total	ug/L	MW02-15A	03/20/2023	ND	20.0000		
Zinc, total	ug/L	MW02-15A	09/12/2023	ND	20.0000		
Zinc, total	ug/L	MW02-15A	03/12/2024	ND	20.0000		
Zinc, total	ug/L	MW02-15A	09/30/2024	ND	20.0000		
Zinc, total	ug/L	MW02-15A	03/24/2025	ND	20.0000		
Zinc, total	ug/L	MW02-15A	09/09/2025		17.6000		
Antimony, total	ug/L	MW02-30A	03/16/2016	ND	2.0000		
Antimony, total	ug/L	MW02-30A	06/07/2016	ND	2.0000		
Antimony, total	ug/L	MW02-30A	09/08/2016	ND	2.0000		
Antimony, total	ug/L	MW02-30A	03/17/2017	ND	2.0000		
Antimony, total	ug/L	MW02-30A	09/19/2017	ND	2.0000		
Antimony, total	ug/L	MW02-30A	03/08/2018	ND	2.0000		
Antimony, total	ug/L	MW02-30A	09/24/2018	ND	2.0000		
Antimony, total	ug/L	MW02-30A	03/25/2019	ND	2.0000		
Antimony, total	ug/L	MW02-30A	09/03/2019	ND	2.0000		
Antimony, total	ug/L	MW02-30A	03/23/2020	ND	2.0000		
Antimony, total	ug/L	MW02-30A	09/04/2020	ND	2.0000		
Antimony, total	ug/L	MW02-30A	03/09/2021	ND	2.0000		
Antimony, total	ug/L	MW02-30A	09/07/2021	ND	2.0000		
Antimony, total	ug/L	MW02-30A	03/28/2022	ND	2.0000		
Antimony, total	ug/L	MW02-30A	09/14/2022	ND	2.0000		
Antimony, total	ug/L	MW02-30A	03/20/2023	ND	2.0000		
Antimony, total	ug/L	MW02-30A	09/12/2023	ND	2.0000		
Antimony, total	ug/L	MW02-30A	03/12/2024	ND	2.0000		
Antimony, total	ug/L	MW02-30A	09/30/2024	ND	2.0000		
Antimony, total	ug/L	MW02-30A	03/24/2025	ND	2.0000		
Antimony, total	ug/L	MW02-30A	09/09/2025	ND	1.0000	2.0000	**
Arsenic, total	ug/L	MW02-30A	03/16/2016		43.9000		
Arsenic, total	ug/L	MW02-30A	06/07/2016		34.2000		
Arsenic, total	ug/L	MW02-30A	09/08/2016		37.5000		
Arsenic, total	ug/L	MW02-30A	03/17/2017		30.0000		
Arsenic, total	ug/L	MW02-30A	09/19/2017		24.3000		
Arsenic, total	ug/L	MW02-30A	03/08/2018		25.7000		
Arsenic, total	ug/L	MW02-30A	09/24/2018		26.2000		
Arsenic, total	ug/L	MW02-30A	03/25/2019		30.9000		
Arsenic, total	ug/L	MW02-30A	09/03/2019		32.7000		
Arsenic, total	ug/L	MW02-30A	03/23/2020		29.1000		
Arsenic, total	ug/L	MW02-30A	09/04/2020		43.5000		
Arsenic, total	ug/L	MW02-30A	03/09/2021		27.6000		

* - Outlier for that well and constituent.

** - ND value replaced with median RL.

*** - ND value replaced with manual RL.

ND = Not detected, Result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Arsenic, total	ug/L	MW02-30A	09/07/2021		36.6000		
Arsenic, total	ug/L	MW02-30A	03/28/2022		34.4000		
Arsenic, total	ug/L	MW02-30A	09/14/2022		50.6000		
Arsenic, total	ug/L	MW02-30A	03/20/2023		50.1000		
Arsenic, total	ug/L	MW02-30A	09/12/2023		27.9000		
Arsenic, total	ug/L	MW02-30A	03/12/2024		44.3000		
Arsenic, total	ug/L	MW02-30A	09/30/2024		41.0000		
Arsenic, total	ug/L	MW02-30A	03/24/2025		38.3000		
Arsenic, total	ug/L	MW02-30A	09/09/2025		43.0000		
Barium, total	ug/L	MW02-30A	03/16/2016		85.6000		
Barium, total	ug/L	MW02-30A	06/07/2016		71.3000		
Barium, total	ug/L	MW02-30A	09/08/2016		62.8000		
Barium, total	ug/L	MW02-30A	03/17/2017		35.6000		
Barium, total	ug/L	MW02-30A	09/19/2017		77.3000		
Barium, total	ug/L	MW02-30A	03/08/2018		79.6000		
Barium, total	ug/L	MW02-30A	09/24/2018		96.5000		
Barium, total	ug/L	MW02-30A	03/25/2019		131.0000		
Barium, total	ug/L	MW02-30A	09/03/2019		91.8000		
Barium, total	ug/L	MW02-30A	03/23/2020		102.0000		
Barium, total	ug/L	MW02-30A	09/04/2020		93.4000		
Barium, total	ug/L	MW02-30A	03/09/2021		81.5000		
Barium, total	ug/L	MW02-30A	09/07/2021		88.2000		
Barium, total	ug/L	MW02-30A	03/28/2022		93.4000		
Barium, total	ug/L	MW02-30A	09/14/2022		159.0000		
Barium, total	ug/L	MW02-30A	03/20/2023		207.0000		
Barium, total	ug/L	MW02-30A	09/12/2023		71.8000		
Barium, total	ug/L	MW02-30A	03/12/2024		120.0000		
Barium, total	ug/L	MW02-30A	09/30/2024		86.8000		
Barium, total	ug/L	MW02-30A	03/24/2025		85.7000		
Barium, total	ug/L	MW02-30A	09/09/2025		89.1000		
Beryllium, total	ug/L	MW02-30A	03/16/2016	ND	4.0000		
Beryllium, total	ug/L	MW02-30A	06/07/2016	ND	4.0000		
Beryllium, total	ug/L	MW02-30A	09/08/2016	ND	4.0000		
Beryllium, total	ug/L	MW02-30A	03/17/2017	ND	4.0000		
Beryllium, total	ug/L	MW02-30A	09/19/2017	ND	4.0000		
Beryllium, total	ug/L	MW02-30A	03/08/2018	ND	4.0000		
Beryllium, total	ug/L	MW02-30A	09/24/2018	ND	4.0000		
Beryllium, total	ug/L	MW02-30A	03/25/2019	ND	4.0000		
Beryllium, total	ug/L	MW02-30A	09/03/2019	ND	4.0000		
Beryllium, total	ug/L	MW02-30A	03/23/2020	ND	4.0000		
Beryllium, total	ug/L	MW02-30A	09/04/2020	ND	4.0000		
Beryllium, total	ug/L	MW02-30A	03/09/2021	ND	4.0000		
Beryllium, total	ug/L	MW02-30A	09/07/2021	ND	4.0000		
Beryllium, total	ug/L	MW02-30A	03/28/2022	ND	4.0000		
Beryllium, total	ug/L	MW02-30A	09/14/2022	ND	4.0000		
Beryllium, total	ug/L	MW02-30A	03/20/2023	ND	4.0000		
Beryllium, total	ug/L	MW02-30A	09/12/2023	ND	4.0000		
Beryllium, total	ug/L	MW02-30A	03/12/2024	ND	4.0000		
Beryllium, total	ug/L	MW02-30A	09/30/2024	ND	4.0000		
Beryllium, total	ug/L	MW02-30A	03/24/2025	ND	4.0000		
Beryllium, total	ug/L	MW02-30A	09/09/2025	ND	0.5000		*

* - Outlier for that well and constituent.

** - ND value replaced with median RL.

*** - ND value replaced with manual RL.

ND = Not detected, Result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Cadmium, total	ug/L	MW02-30A	03/16/2016	ND	0.8000		
Cadmium, total	ug/L	MW02-30A	06/07/2016	ND	0.8000		
Cadmium, total	ug/L	MW02-30A	09/08/2016	ND	0.8000		
Cadmium, total	ug/L	MW02-30A	03/17/2017	ND	0.8000		
Cadmium, total	ug/L	MW02-30A	09/19/2017	ND	0.8000		
Cadmium, total	ug/L	MW02-30A	03/08/2018	ND	0.8000		
Cadmium, total	ug/L	MW02-30A	09/24/2018	ND	0.8000		
Cadmium, total	ug/L	MW02-30A	03/25/2019	ND	0.8000		
Cadmium, total	ug/L	MW02-30A	09/03/2019	ND	0.8000		
Cadmium, total	ug/L	MW02-30A	03/23/2020	ND	0.8000		
Cadmium, total	ug/L	MW02-30A	09/04/2020	ND	0.8000		
Cadmium, total	ug/L	MW02-30A	03/09/2021	ND	0.8000		
Cadmium, total	ug/L	MW02-30A	09/07/2021	ND	0.8000		
Cadmium, total	ug/L	MW02-30A	03/28/2022	ND	0.8000		
Cadmium, total	ug/L	MW02-30A	09/14/2022		0.8000		
Cadmium, total	ug/L	MW02-30A	03/20/2023		1.8000		
Cadmium, total	ug/L	MW02-30A	09/12/2023	ND	0.8000		
Cadmium, total	ug/L	MW02-30A	03/12/2024	ND	0.8000		
Cadmium, total	ug/L	MW02-30A	09/30/2024	ND	0.8000		
Cadmium, total	ug/L	MW02-30A	03/24/2025	ND	0.8000		
Cadmium, total	ug/L	MW02-30A	09/09/2025	ND	0.2000		*
Chromium, total	ug/L	MW02-30A	03/16/2016	ND	8.0000		
Chromium, total	ug/L	MW02-30A	06/07/2016	ND	8.0000		
Chromium, total	ug/L	MW02-30A	09/08/2016	ND	8.0000		
Chromium, total	ug/L	MW02-30A	03/17/2017	ND	8.0000		
Chromium, total	ug/L	MW02-30A	09/19/2017	ND	8.0000		
Chromium, total	ug/L	MW02-30A	03/08/2018	ND	8.0000		
Chromium, total	ug/L	MW02-30A	09/24/2018	ND	8.0000		
Chromium, total	ug/L	MW02-30A	03/25/2019	ND	8.0000		
Chromium, total	ug/L	MW02-30A	09/03/2019	ND	8.0000		
Chromium, total	ug/L	MW02-30A	03/23/2020	ND	8.0000		
Chromium, total	ug/L	MW02-30A	09/04/2020	ND	8.0000		
Chromium, total	ug/L	MW02-30A	03/09/2021	ND	8.0000		
Chromium, total	ug/L	MW02-30A	09/07/2021	ND	8.0000		
Chromium, total	ug/L	MW02-30A	03/28/2022	ND	8.0000		
Chromium, total	ug/L	MW02-30A	09/14/2022		9.0000		
Chromium, total	ug/L	MW02-30A	03/20/2023		10.6000		
Chromium, total	ug/L	MW02-30A	09/12/2023	ND	8.0000		
Chromium, total	ug/L	MW02-30A	03/12/2024	ND	8.0000		
Chromium, total	ug/L	MW02-30A	09/30/2024	ND	8.0000		
Chromium, total	ug/L	MW02-30A	03/24/2025	ND	8.0000		
Chromium, total	ug/L	MW02-30A	09/09/2025	ND	1.0000		*
Cobalt, total	ug/L	MW02-30A	03/16/2016		1.0000		
Cobalt, total	ug/L	MW02-30A	06/07/2016		1.2000		
Cobalt, total	ug/L	MW02-30A	09/08/2016	ND	0.8000		
Cobalt, total	ug/L	MW02-30A	03/17/2017	ND	0.8000		
Cobalt, total	ug/L	MW02-30A	09/19/2017	ND	0.8000		
Cobalt, total	ug/L	MW02-30A	03/08/2018	ND	0.8000		
Cobalt, total	ug/L	MW02-30A	09/24/2018		1.8000		
Cobalt, total	ug/L	MW02-30A	03/25/2019		3.2000		
Cobalt, total	ug/L	MW02-30A	09/03/2019		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	MW02-30A	03/23/2020		2.3000		
Cobalt, total	ug/L	MW02-30A	09/04/2020		0.4000		
Cobalt, total	ug/L	MW02-30A	03/09/2021		1.5000		
Cobalt, total	ug/L	MW02-30A	09/07/2021	ND	0.4000	0.8000	**
Cobalt, total	ug/L	MW02-30A	03/28/2022		0.4000		
Cobalt, total	ug/L	MW02-30A	09/14/2022		7.0000		
Cobalt, total	ug/L	MW02-30A	03/20/2023		4.5000		
Cobalt, total	ug/L	MW02-30A	09/12/2023	ND	0.4000	0.8000	**
Cobalt, total	ug/L	MW02-30A	03/12/2024		0.6000		
Cobalt, total	ug/L	MW02-30A	09/30/2024	ND	0.4000	0.8000	**
Cobalt, total	ug/L	MW02-30A	03/24/2025	ND	0.4000	0.8000	**
Cobalt, total	ug/L	MW02-30A	09/09/2025	ND	0.5000	0.8000	**
Copper, total	ug/L	MW02-30A	03/16/2016	ND	4.0000		
Copper, total	ug/L	MW02-30A	06/07/2016	ND	4.0000		
Copper, total	ug/L	MW02-30A	09/08/2016	ND	4.0000		
Copper, total	ug/L	MW02-30A	03/17/2017	ND	4.0000		
Copper, total	ug/L	MW02-30A	09/19/2017	ND	4.0000		
Copper, total	ug/L	MW02-30A	03/08/2018	ND	4.0000		
Copper, total	ug/L	MW02-30A	09/24/2018		4.8000		
Copper, total	ug/L	MW02-30A	03/25/2019		13.5000		
Copper, total	ug/L	MW02-30A	09/03/2019	ND	4.0000		
Copper, total	ug/L	MW02-30A	03/23/2020		9.3000		
Copper, total	ug/L	MW02-30A	09/04/2020	ND	4.0000		
Copper, total	ug/L	MW02-30A	03/09/2021		9.4000		
Copper, total	ug/L	MW02-30A	09/07/2021	ND	4.0000		
Copper, total	ug/L	MW02-30A	03/28/2022	ND	4.0000		
Copper, total	ug/L	MW02-30A	09/14/2022		19.5000		
Copper, total	ug/L	MW02-30A	03/20/2023		18.3000		
Copper, total	ug/L	MW02-30A	09/12/2023	ND	4.0000		
Copper, total	ug/L	MW02-30A	03/12/2024	ND	4.0000		
Copper, total	ug/L	MW02-30A	09/30/2024	ND	4.0000		
Copper, total	ug/L	MW02-30A	03/24/2025	ND	4.0000		
Copper, total	ug/L	MW02-30A	09/09/2025	ND	5.0000	4.0000	**
Lead, total	ug/L	MW02-30A	03/16/2016	ND	4.0000		
Lead, total	ug/L	MW02-30A	06/07/2016	ND	4.0000		
Lead, total	ug/L	MW02-30A	09/08/2016	ND	4.0000		
Lead, total	ug/L	MW02-30A	03/17/2017	ND	4.0000		
Lead, total	ug/L	MW02-30A	09/19/2017	ND	4.0000		
Lead, total	ug/L	MW02-30A	03/08/2018	ND	4.0000		
Lead, total	ug/L	MW02-30A	09/24/2018	ND	4.0000		
Lead, total	ug/L	MW02-30A	03/25/2019		8.9000		
Lead, total	ug/L	MW02-30A	09/03/2019	ND	4.0000		
Lead, total	ug/L	MW02-30A	03/23/2020		7.0000		
Lead, total	ug/L	MW02-30A	09/04/2020	ND	4.0000		
Lead, total	ug/L	MW02-30A	03/09/2021	ND	4.0000		
Lead, total	ug/L	MW02-30A	09/07/2021	ND	4.0000		
Lead, total	ug/L	MW02-30A	03/28/2022	ND	4.0000		
Lead, total	ug/L	MW02-30A	09/14/2022		14.8000		*
Lead, total	ug/L	MW02-30A	03/20/2023		22.3000		*
Lead, total	ug/L	MW02-30A	09/12/2023	ND	4.0000		
Lead, total	ug/L	MW02-30A	03/12/2024	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	MW02-30A	09/30/2024	ND	4.0000		
Lead, total	ug/L	MW02-30A	03/24/2025	ND	4.0000		
Lead, total	ug/L	MW02-30A	09/09/2025	ND	1.0000		*
Nickel, total	ug/L	MW02-30A	03/16/2016	ND	4.0000		
Nickel, total	ug/L	MW02-30A	06/07/2016	ND	4.0000		
Nickel, total	ug/L	MW02-30A	09/08/2016	ND	4.0000		
Nickel, total	ug/L	MW02-30A	03/17/2017	ND	4.0000		
Nickel, total	ug/L	MW02-30A	09/19/2017	ND	4.0000		
Nickel, total	ug/L	MW02-30A	03/08/2018	ND	4.0000		
Nickel, total	ug/L	MW02-30A	09/24/2018	ND	4.0000		
Nickel, total	ug/L	MW02-30A	03/25/2019		9.4000		
Nickel, total	ug/L	MW02-30A	09/03/2019	ND	4.0000		
Nickel, total	ug/L	MW02-30A	03/23/2020		7.0000		
Nickel, total	ug/L	MW02-30A	09/04/2020	ND	4.0000		
Nickel, total	ug/L	MW02-30A	03/09/2021		4.3000		
Nickel, total	ug/L	MW02-30A	09/07/2021	ND	4.0000		
Nickel, total	ug/L	MW02-30A	03/28/2022	ND	4.0000		
Nickel, total	ug/L	MW02-30A	09/14/2022		12.4000		
Nickel, total	ug/L	MW02-30A	03/20/2023		12.9000		
Nickel, total	ug/L	MW02-30A	09/12/2023	ND	4.0000		
Nickel, total	ug/L	MW02-30A	03/12/2024	ND	4.0000		
Nickel, total	ug/L	MW02-30A	09/30/2024	ND	4.0000		
Nickel, total	ug/L	MW02-30A	03/24/2025	ND	4.0000		
Nickel, total	ug/L	MW02-30A	09/09/2025	ND	5.0000	4.0000	**
Selenium, total	ug/L	MW02-30A	03/16/2016	ND	4.0000		
Selenium, total	ug/L	MW02-30A	06/07/2016	ND	4.0000		
Selenium, total	ug/L	MW02-30A	09/08/2016	ND	4.0000		
Selenium, total	ug/L	MW02-30A	03/17/2017	ND	4.0000		
Selenium, total	ug/L	MW02-30A	09/19/2017	ND	4.0000		
Selenium, total	ug/L	MW02-30A	03/08/2018	ND	4.0000		
Selenium, total	ug/L	MW02-30A	09/24/2018	ND	4.0000		
Selenium, total	ug/L	MW02-30A	03/25/2019	ND	4.0000		
Selenium, total	ug/L	MW02-30A	09/03/2019	ND	4.0000		
Selenium, total	ug/L	MW02-30A	03/23/2020	ND	4.0000		
Selenium, total	ug/L	MW02-30A	09/04/2020	ND	4.0000		
Selenium, total	ug/L	MW02-30A	03/09/2021	ND	4.0000		
Selenium, total	ug/L	MW02-30A	09/07/2021	ND	4.0000		
Selenium, total	ug/L	MW02-30A	03/28/2022	ND	4.0000		
Selenium, total	ug/L	MW02-30A	09/14/2022	ND	4.0000		
Selenium, total	ug/L	MW02-30A	03/20/2023	ND	4.0000		
Selenium, total	ug/L	MW02-30A	09/12/2023	ND	4.0000		
Selenium, total	ug/L	MW02-30A	03/12/2024	ND	4.0000		
Selenium, total	ug/L	MW02-30A	09/30/2024	ND	4.0000		
Selenium, total	ug/L	MW02-30A	03/24/2025	ND	4.0000		
Selenium, total	ug/L	MW02-30A	09/09/2025	ND	2.0000	4.0000	**
Silver, total	ug/L	MW02-30A	03/16/2016	ND	4.0000		
Silver, total	ug/L	MW02-30A	06/07/2016	ND	4.0000		
Silver, total	ug/L	MW02-30A	09/08/2016	ND	4.0000		
Silver, total	ug/L	MW02-30A	03/17/2017	ND	4.0000		
Silver, total	ug/L	MW02-30A	09/19/2017	ND	4.0000		
Silver, total	ug/L	MW02-30A	03/08/2018	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	MW02-30A	09/24/2018	ND	4.0000		
Silver, total	ug/L	MW02-30A	03/25/2019	ND	4.0000		
Silver, total	ug/L	MW02-30A	09/03/2019	ND	4.0000		
Silver, total	ug/L	MW02-30A	03/23/2020	ND	4.0000		
Silver, total	ug/L	MW02-30A	09/04/2020	ND	4.0000		
Silver, total	ug/L	MW02-30A	03/09/2021	ND	4.0000		
Silver, total	ug/L	MW02-30A	09/07/2021	ND	4.0000		
Silver, total	ug/L	MW02-30A	03/28/2022	ND	4.0000		
Silver, total	ug/L	MW02-30A	09/14/2022	ND	4.0000		
Silver, total	ug/L	MW02-30A	03/20/2023	ND	4.0000		
Silver, total	ug/L	MW02-30A	09/12/2023	ND	4.0000		
Silver, total	ug/L	MW02-30A	03/12/2024	ND	4.0000		
Silver, total	ug/L	MW02-30A	09/30/2024	ND	4.0000		
Silver, total	ug/L	MW02-30A	03/24/2025	ND	4.0000		
Silver, total	ug/L	MW02-30A	09/09/2025	ND	5.0000	4.0000	**
Thallium, total	ug/L	MW02-30A	03/16/2016	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW02-30A	06/07/2016	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW02-30A	09/08/2016	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW02-30A	03/17/2017	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW02-30A	09/19/2017	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW02-30A	03/08/2018	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW02-30A	09/24/2018	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW02-30A	03/25/2019	ND	2.0000		
Thallium, total	ug/L	MW02-30A	09/03/2019	ND	2.0000		
Thallium, total	ug/L	MW02-30A	03/23/2020	ND	2.0000		
Thallium, total	ug/L	MW02-30A	09/04/2020	ND	2.0000		
Thallium, total	ug/L	MW02-30A	03/09/2021	ND	2.0000		
Thallium, total	ug/L	MW02-30A	09/07/2021	ND	2.0000		
Thallium, total	ug/L	MW02-30A	03/28/2022	ND	2.0000		
Thallium, total	ug/L	MW02-30A	09/14/2022	ND	2.0000		
Thallium, total	ug/L	MW02-30A	03/20/2023	ND	2.0000		
Thallium, total	ug/L	MW02-30A	09/12/2023	ND	2.0000		
Thallium, total	ug/L	MW02-30A	03/12/2024	ND	2.0000		
Thallium, total	ug/L	MW02-30A	09/30/2024	ND	2.0000		
Thallium, total	ug/L	MW02-30A	03/24/2025	ND	2.0000		
Thallium, total	ug/L	MW02-30A	09/09/2025	ND	0.5000		*
Vanadium, total	ug/L	MW02-30A	03/16/2016	ND	20.0000		
Vanadium, total	ug/L	MW02-30A	06/07/2016	ND	20.0000		
Vanadium, total	ug/L	MW02-30A	09/08/2016	ND	20.0000		
Vanadium, total	ug/L	MW02-30A	03/17/2017	ND	20.0000		
Vanadium, total	ug/L	MW02-30A	09/19/2017	ND	20.0000		
Vanadium, total	ug/L	MW02-30A	03/08/2018	ND	20.0000		
Vanadium, total	ug/L	MW02-30A	09/24/2018	ND	20.0000		
Vanadium, total	ug/L	MW02-30A	03/25/2019	ND	20.0000		
Vanadium, total	ug/L	MW02-30A	09/03/2019	ND	20.0000		
Vanadium, total	ug/L	MW02-30A	03/23/2020	ND	20.0000		
Vanadium, total	ug/L	MW02-30A	09/04/2020	ND	20.0000		
Vanadium, total	ug/L	MW02-30A	03/09/2021	ND	20.0000		
Vanadium, total	ug/L	MW02-30A	09/07/2021	ND	20.0000		
Vanadium, total	ug/L	MW02-30A	03/28/2022	ND	20.0000		
Vanadium, total	ug/L	MW02-30A	09/14/2022	ND	20.0000		

* - Outlier for that well and constituent.

** - ND value replaced with median RL.

*** - ND value replaced with manual RL.

ND = Not detected, Result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Vanadium, total	ug/L	MW02-30A	03/20/2023	ND	20.0000		
Vanadium, total	ug/L	MW02-30A	09/12/2023	ND	20.0000		
Vanadium, total	ug/L	MW02-30A	03/12/2024	ND	20.0000		
Vanadium, total	ug/L	MW02-30A	09/30/2024	ND	20.0000		
Vanadium, total	ug/L	MW02-30A	03/24/2025	ND	20.0000		
Vanadium, total	ug/L	MW02-30A	09/09/2025	ND	2.0000		*
Zinc, total	ug/L	MW02-30A	03/16/2016	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW02-30A	06/07/2016		8.7000		
Zinc, total	ug/L	MW02-30A	09/08/2016		9.9000		
Zinc, total	ug/L	MW02-30A	03/17/2017	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW02-30A	09/19/2017	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW02-30A	03/08/2018	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW02-30A	09/24/2018		12.9000		
Zinc, total	ug/L	MW02-30A	03/25/2019		59.9000		
Zinc, total	ug/L	MW02-30A	09/03/2019		16.3000		
Zinc, total	ug/L	MW02-30A	03/23/2020		28.5000		
Zinc, total	ug/L	MW02-30A	09/04/2020	ND	20.0000		
Zinc, total	ug/L	MW02-30A	03/09/2021	ND	20.0000		
Zinc, total	ug/L	MW02-30A	09/07/2021	ND	20.0000		
Zinc, total	ug/L	MW02-30A	03/28/2022	ND	20.0000		
Zinc, total	ug/L	MW02-30A	09/14/2022		52.8000		
Zinc, total	ug/L	MW02-30A	03/20/2023		144.0000		
Zinc, total	ug/L	MW02-30A	09/12/2023	ND	20.0000		
Zinc, total	ug/L	MW02-30A	03/12/2024	ND	20.0000		
Zinc, total	ug/L	MW02-30A	09/30/2024	ND	20.0000		
Zinc, total	ug/L	MW02-30A	03/24/2025	ND	20.0000		
Zinc, total	ug/L	MW02-30A	09/09/2025		6.3000		
Antimony, total	ug/L	MW88-2	09/18/2014	ND	2.0000		
Antimony, total	ug/L	MW88-2	11/13/2014	ND	2.0000		
Antimony, total	ug/L	MW88-2	03/17/2015	ND	2.0000		
Antimony, total	ug/L	MW88-2	06/29/2015	ND	2.0000		
Antimony, total	ug/L	MW88-2	09/11/2015	ND	2.0000		
Antimony, total	ug/L	MW88-2	03/16/2016	ND	2.0000		
Antimony, total	ug/L	MW88-2	09/08/2016	ND	2.0000		
Antimony, total	ug/L	MW88-2	03/17/2017	ND	2.0000		
Antimony, total	ug/L	MW88-2	09/19/2017	ND	2.0000		
Antimony, total	ug/L	MW88-2	03/08/2018	ND	2.0000		
Antimony, total	ug/L	MW88-2	09/24/2018	ND	2.0000		
Antimony, total	ug/L	MW88-2	03/25/2019	ND	2.0000		
Antimony, total	ug/L	MW88-2	09/03/2019	ND	2.0000		
Antimony, total	ug/L	MW88-2	03/23/2020	ND	2.0000		
Antimony, total	ug/L	MW88-2	09/04/2020	ND	2.0000		
Antimony, total	ug/L	MW88-2	03/09/2021	ND	2.0000		
Antimony, total	ug/L	MW88-2	03/28/2022	ND	2.0000		
Antimony, total	ug/L	MW88-2	09/14/2022	ND	2.0000		
Antimony, total	ug/L	MW88-2	03/20/2023	ND	2.0000		
Antimony, total	ug/L	MW88-2	09/12/2023	ND	2.0000		
Antimony, total	ug/L	MW88-2	03/12/2024	ND	2.0000		
Antimony, total	ug/L	MW88-2	09/30/2024	ND	2.0000		
Antimony, total	ug/L	MW88-2	03/24/2025	ND	2.0000		
Antimony, total	ug/L	MW88-2	09/09/2025	ND	1.0000	2.0000	**

* - Outlier for that well and constituent.

** - ND value replaced with median RL.

*** - ND value replaced with manual RL.

ND = Not detected, Result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Arsenic, total	ug/L	MW88-2	09/18/2014		16.1000		
Arsenic, total	ug/L	MW88-2	11/13/2014		7.4000		
Arsenic, total	ug/L	MW88-2	03/17/2015	ND	4.0000		
Arsenic, total	ug/L	MW88-2	06/29/2015	ND	4.0000		
Arsenic, total	ug/L	MW88-2	09/11/2015	ND	4.0000		
Arsenic, total	ug/L	MW88-2	03/16/2016	ND	4.0000		
Arsenic, total	ug/L	MW88-2	09/08/2016		6.6000		
Arsenic, total	ug/L	MW88-2	03/17/2017	ND	4.0000		
Arsenic, total	ug/L	MW88-2	09/19/2017	ND	4.0000		
Arsenic, total	ug/L	MW88-2	03/08/2018		6.1000		
Arsenic, total	ug/L	MW88-2	09/24/2018		24.3000		
Arsenic, total	ug/L	MW88-2	03/25/2019		11.0000		
Arsenic, total	ug/L	MW88-2	09/03/2019		10.6000		
Arsenic, total	ug/L	MW88-2	03/23/2020	ND	4.0000		
Arsenic, total	ug/L	MW88-2	09/04/2020	ND	4.0000		
Arsenic, total	ug/L	MW88-2	03/09/2021		10.4000		
Arsenic, total	ug/L	MW88-2	03/28/2022	ND	4.0000		
Arsenic, total	ug/L	MW88-2	09/14/2022	ND	4.0000		
Arsenic, total	ug/L	MW88-2	03/20/2023	ND	4.0000		
Arsenic, total	ug/L	MW88-2	09/12/2023		5.1000		
Arsenic, total	ug/L	MW88-2	03/12/2024		12.7000		
Arsenic, total	ug/L	MW88-2	09/30/2024		19.3000		
Arsenic, total	ug/L	MW88-2	03/24/2025	ND	4.0000		
Arsenic, total	ug/L	MW88-2	09/09/2025	ND	2.0000	4.0000	**
Barium, total	ug/L	MW88-2	09/18/2014		661.0000		
Barium, total	ug/L	MW88-2	11/13/2014		751.0000		
Barium, total	ug/L	MW88-2	03/17/2015		595.0000		
Barium, total	ug/L	MW88-2	06/29/2015		451.0000		
Barium, total	ug/L	MW88-2	09/11/2015		296.0000		
Barium, total	ug/L	MW88-2	03/16/2016		95.8000		
Barium, total	ug/L	MW88-2	09/08/2016		411.0000		
Barium, total	ug/L	MW88-2	03/17/2017		179.0000		
Barium, total	ug/L	MW88-2	09/19/2017		684.0000		
Barium, total	ug/L	MW88-2	03/08/2018		632.0000		
Barium, total	ug/L	MW88-2	09/24/2018		371.0000		
Barium, total	ug/L	MW88-2	03/25/2019		273.0000		
Barium, total	ug/L	MW88-2	09/03/2019		97.7000		
Barium, total	ug/L	MW88-2	03/23/2020		75.7000		
Barium, total	ug/L	MW88-2	09/04/2020		623.0000		
Barium, total	ug/L	MW88-2	03/09/2021		874.0000		
Barium, total	ug/L	MW88-2	03/28/2022		274.0000		
Barium, total	ug/L	MW88-2	09/14/2022		376.0000		
Barium, total	ug/L	MW88-2	03/20/2023		152.0000		
Barium, total	ug/L	MW88-2	09/12/2023		287.0000		
Barium, total	ug/L	MW88-2	03/12/2024		270.0000		
Barium, total	ug/L	MW88-2	09/30/2024		357.0000		
Barium, total	ug/L	MW88-2	03/24/2025		297.0000		
Barium, total	ug/L	MW88-2	09/09/2025		169.0000		
Beryllium, total	ug/L	MW88-2	09/18/2014	ND	4.0000		
Beryllium, total	ug/L	MW88-2	11/13/2014	ND	4.0000		
Beryllium, total	ug/L	MW88-2	03/17/2015	ND	4.0000		

* - Outlier for that well and constituent.

** - ND value replaced with median RL.

*** - ND value replaced with manual RL.

ND = Not detected, Result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Beryllium, total	ug/L	MW88-2	06/29/2015	ND	4.0000		
Beryllium, total	ug/L	MW88-2	09/11/2015	ND	4.0000		
Beryllium, total	ug/L	MW88-2	03/16/2016	ND	4.0000		
Beryllium, total	ug/L	MW88-2	09/08/2016	ND	4.0000		
Beryllium, total	ug/L	MW88-2	03/17/2017	ND	4.0000		
Beryllium, total	ug/L	MW88-2	09/19/2017	ND	4.0000		
Beryllium, total	ug/L	MW88-2	03/08/2018	ND	4.0000		
Beryllium, total	ug/L	MW88-2	09/24/2018	ND	4.0000		
Beryllium, total	ug/L	MW88-2	03/25/2019	ND	4.0000		
Beryllium, total	ug/L	MW88-2	09/03/2019	ND	4.0000		
Beryllium, total	ug/L	MW88-2	03/23/2020	ND	4.0000		
Beryllium, total	ug/L	MW88-2	09/04/2020	ND	4.0000		
Beryllium, total	ug/L	MW88-2	03/09/2021	ND	4.0000		
Beryllium, total	ug/L	MW88-2	03/28/2022	ND	4.0000		
Beryllium, total	ug/L	MW88-2	09/14/2022	ND	4.0000		
Beryllium, total	ug/L	MW88-2	03/20/2023	ND	4.0000		
Beryllium, total	ug/L	MW88-2	09/12/2023	ND	4.0000		
Beryllium, total	ug/L	MW88-2	03/12/2024	ND	4.0000		
Beryllium, total	ug/L	MW88-2	09/30/2024	ND	4.0000		
Beryllium, total	ug/L	MW88-2	03/24/2025	ND	4.0000		
Beryllium, total	ug/L	MW88-2	09/09/2025	ND	0.5000		*
Cadmium, total	ug/L	MW88-2	09/18/2014	ND	0.8000		
Cadmium, total	ug/L	MW88-2	11/13/2014	ND	0.8000		
Cadmium, total	ug/L	MW88-2	03/17/2015	ND	0.8000		
Cadmium, total	ug/L	MW88-2	06/29/2015	ND	0.8000		
Cadmium, total	ug/L	MW88-2	09/11/2015	ND	0.8000		
Cadmium, total	ug/L	MW88-2	03/16/2016		4.6000		*
Cadmium, total	ug/L	MW88-2	09/08/2016	ND	0.8000		
Cadmium, total	ug/L	MW88-2	03/17/2017		1.1000		*
Cadmium, total	ug/L	MW88-2	09/19/2017		2.5000		
Cadmium, total	ug/L	MW88-2	03/08/2018	ND	0.8000		
Cadmium, total	ug/L	MW88-2	09/24/2018	ND	0.8000		
Cadmium, total	ug/L	MW88-2	03/25/2019	ND	0.8000		
Cadmium, total	ug/L	MW88-2	09/03/2019	ND	0.8000		
Cadmium, total	ug/L	MW88-2	03/23/2020	ND	0.8000		
Cadmium, total	ug/L	MW88-2	09/04/2020	ND	0.8000		
Cadmium, total	ug/L	MW88-2	03/09/2021	ND	0.8000		
Cadmium, total	ug/L	MW88-2	03/28/2022	ND	0.8000		
Cadmium, total	ug/L	MW88-2	09/14/2022	ND	0.8000		
Cadmium, total	ug/L	MW88-2	03/20/2023	ND	0.8000		
Cadmium, total	ug/L	MW88-2	09/12/2023	ND	0.8000		
Cadmium, total	ug/L	MW88-2	03/12/2024	ND	0.8000		
Cadmium, total	ug/L	MW88-2	09/30/2024	ND	0.8000		
Cadmium, total	ug/L	MW88-2	03/24/2025	ND	0.8000		
Cadmium, total	ug/L	MW88-2	09/09/2025		0.2000		*
Chromium, total	ug/L	MW88-2	09/18/2014	ND	8.0000		
Chromium, total	ug/L	MW88-2	11/13/2014	ND	8.0000		
Chromium, total	ug/L	MW88-2	03/17/2015	ND	8.0000		
Chromium, total	ug/L	MW88-2	06/29/2015	ND	8.0000		
Chromium, total	ug/L	MW88-2	09/11/2015	ND	8.0000		
Chromium, total	ug/L	MW88-2	03/16/2016	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	MW88-2	09/08/2016	ND	8.0000		
Chromium, total	ug/L	MW88-2	03/17/2017	ND	8.0000		
Chromium, total	ug/L	MW88-2	09/19/2017	ND	8.0000		
Chromium, total	ug/L	MW88-2	03/08/2018	ND	8.0000		
Chromium, total	ug/L	MW88-2	09/24/2018	ND	8.0000		
Chromium, total	ug/L	MW88-2	03/25/2019	ND	8.0000		
Chromium, total	ug/L	MW88-2	09/03/2019	ND	8.0000		
Chromium, total	ug/L	MW88-2	03/23/2020	ND	8.0000		
Chromium, total	ug/L	MW88-2	09/04/2020	ND	8.0000		
Chromium, total	ug/L	MW88-2	03/09/2021	ND	8.0000		
Chromium, total	ug/L	MW88-2	03/28/2022	ND	8.0000		
Chromium, total	ug/L	MW88-2	09/14/2022	ND	8.0000		
Chromium, total	ug/L	MW88-2	03/20/2023	ND	8.0000		
Chromium, total	ug/L	MW88-2	09/12/2023	ND	8.0000		
Chromium, total	ug/L	MW88-2	03/12/2024	ND	8.0000		
Chromium, total	ug/L	MW88-2	09/30/2024	ND	8.0000		
Chromium, total	ug/L	MW88-2	03/24/2025	ND	8.0000		*
Chromium, total	ug/L	MW88-2	09/09/2025		2.2000		
Cobalt, total	ug/L	MW88-2	09/18/2014	ND	0.8000		
Cobalt, total	ug/L	MW88-2	11/13/2014	ND	0.8000		
Cobalt, total	ug/L	MW88-2	03/17/2015	ND	0.8000		
Cobalt, total	ug/L	MW88-2	06/29/2015	ND	0.8000		
Cobalt, total	ug/L	MW88-2	09/11/2015	ND	0.8000		
Cobalt, total	ug/L	MW88-2	03/16/2016	ND	0.8000		
Cobalt, total	ug/L	MW88-2	09/08/2016	ND	0.8000		
Cobalt, total	ug/L	MW88-2	03/17/2017		0.8000		
Cobalt, total	ug/L	MW88-2	09/19/2017	ND	0.8000		
Cobalt, total	ug/L	MW88-2	03/08/2018	ND	0.8000		
Cobalt, total	ug/L	MW88-2	09/24/2018	ND	0.8000		
Cobalt, total	ug/L	MW88-2	03/25/2019		1.0000		
Cobalt, total	ug/L	MW88-2	09/03/2019		1.5000		
Cobalt, total	ug/L	MW88-2	03/23/2020	ND	0.8000		
Cobalt, total	ug/L	MW88-2	09/04/2020	ND	0.4000	0.8000	**
Cobalt, total	ug/L	MW88-2	03/09/2021	ND	0.4000	0.8000	**
Cobalt, total	ug/L	MW88-2	03/28/2022		0.9000		
Cobalt, total	ug/L	MW88-2	09/14/2022		2.6000		
Cobalt, total	ug/L	MW88-2	03/20/2023		0.8000		
Cobalt, total	ug/L	MW88-2	09/12/2023		0.4000		
Cobalt, total	ug/L	MW88-2	03/12/2024		0.8000		
Cobalt, total	ug/L	MW88-2	09/30/2024	ND	0.4000	0.8000	**
Cobalt, total	ug/L	MW88-2	03/24/2025		0.7000		
Cobalt, total	ug/L	MW88-2	09/09/2025		1.1000		
Copper, total	ug/L	MW88-2	09/18/2014	ND	4.0000		
Copper, total	ug/L	MW88-2	11/13/2014	ND	4.0000		
Copper, total	ug/L	MW88-2	03/17/2015	ND	4.0000		
Copper, total	ug/L	MW88-2	06/29/2015	ND	4.0000		
Copper, total	ug/L	MW88-2	09/11/2015	ND	4.0000		
Copper, total	ug/L	MW88-2	03/16/2016	ND	4.0000		
Copper, total	ug/L	MW88-2	09/08/2016	ND	4.0000		
Copper, total	ug/L	MW88-2	03/17/2017	ND	4.0000		
Copper, total	ug/L	MW88-2	09/19/2017		9.0000		

* - Outlier for that well and constituent.

** - ND value replaced with median RL.

*** - ND value replaced with manual RL.

ND = Not detected, Result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Copper, total	ug/L	MW88-2	03/08/2018	ND	4.0000		
Copper, total	ug/L	MW88-2	09/24/2018	ND	4.0000		
Copper, total	ug/L	MW88-2	03/25/2019	ND	4.0000		
Copper, total	ug/L	MW88-2	09/03/2019	ND	4.0000		
Copper, total	ug/L	MW88-2	03/23/2020	ND	4.0000		
Copper, total	ug/L	MW88-2	09/04/2020	ND	4.0000		
Copper, total	ug/L	MW88-2	03/09/2021		33.6000		*
Copper, total	ug/L	MW88-2	03/28/2022	ND	4.0000		
Copper, total	ug/L	MW88-2	09/14/2022	ND	4.0000		
Copper, total	ug/L	MW88-2	03/20/2023	ND	4.0000		
Copper, total	ug/L	MW88-2	09/12/2023	ND	4.0000		
Copper, total	ug/L	MW88-2	03/12/2024	ND	4.0000		
Copper, total	ug/L	MW88-2	09/30/2024	ND	4.0000		
Copper, total	ug/L	MW88-2	03/24/2025	ND	4.0000		
Copper, total	ug/L	MW88-2	09/09/2025		14.5000		*
Lead, total	ug/L	MW88-2	09/18/2014	ND	4.0000		
Lead, total	ug/L	MW88-2	11/13/2014	ND	4.0000		
Lead, total	ug/L	MW88-2	03/17/2015	ND	4.0000		
Lead, total	ug/L	MW88-2	06/29/2015	ND	4.0000		
Lead, total	ug/L	MW88-2	09/11/2015	ND	4.0000		
Lead, total	ug/L	MW88-2	03/16/2016	ND	4.0000		
Lead, total	ug/L	MW88-2	09/08/2016	ND	4.0000		
Lead, total	ug/L	MW88-2	03/17/2017	ND	4.0000		
Lead, total	ug/L	MW88-2	09/19/2017	ND	4.0000		
Lead, total	ug/L	MW88-2	03/08/2018	ND	4.0000		
Lead, total	ug/L	MW88-2	09/24/2018	ND	4.0000		
Lead, total	ug/L	MW88-2	03/25/2019	ND	4.0000		
Lead, total	ug/L	MW88-2	09/03/2019	ND	4.0000		
Lead, total	ug/L	MW88-2	03/23/2020	ND	4.0000		
Lead, total	ug/L	MW88-2	09/04/2020	ND	4.0000		
Lead, total	ug/L	MW88-2	03/09/2021	ND	4.0000		
Lead, total	ug/L	MW88-2	03/28/2022	ND	4.0000		
Lead, total	ug/L	MW88-2	09/14/2022	ND	4.0000		
Lead, total	ug/L	MW88-2	03/20/2023	ND	4.0000		
Lead, total	ug/L	MW88-2	09/12/2023	ND	4.0000		
Lead, total	ug/L	MW88-2	03/12/2024	ND	4.0000		
Lead, total	ug/L	MW88-2	09/30/2024	ND	4.0000		
Lead, total	ug/L	MW88-2	03/24/2025	ND	4.0000		
Lead, total	ug/L	MW88-2	09/09/2025	ND	1.0000		*
Nickel, total	ug/L	MW88-2	09/18/2014	ND	4.0000		
Nickel, total	ug/L	MW88-2	11/13/2014	ND	4.0000		
Nickel, total	ug/L	MW88-2	03/17/2015	ND	4.0000		
Nickel, total	ug/L	MW88-2	06/29/2015	ND	4.0000		
Nickel, total	ug/L	MW88-2	09/11/2015	ND	4.0000		
Nickel, total	ug/L	MW88-2	03/16/2016		5.1000		
Nickel, total	ug/L	MW88-2	09/08/2016	ND	4.0000		
Nickel, total	ug/L	MW88-2	03/17/2017	ND	4.0000		
Nickel, total	ug/L	MW88-2	09/19/2017	ND	4.0000		
Nickel, total	ug/L	MW88-2	03/08/2018	ND	4.0000		
Nickel, total	ug/L	MW88-2	09/24/2018	ND	4.0000		
Nickel, total	ug/L	MW88-2	03/25/2019		4.6000		

* - Outlier for that well and constituent.

** - ND value replaced with median RL.

*** - ND value replaced with manual RL.

ND = Not detected, Result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Nickel, total	ug/L	MW88-2	09/03/2019		8.1000		
Nickel, total	ug/L	MW88-2	03/23/2020	ND	4.0000		
Nickel, total	ug/L	MW88-2	09/04/2020	ND	4.0000		
Nickel, total	ug/L	MW88-2	03/09/2021	ND	4.0000		
Nickel, total	ug/L	MW88-2	03/28/2022	ND	4.0000		
Nickel, total	ug/L	MW88-2	09/14/2022	ND	4.0000		
Nickel, total	ug/L	MW88-2	03/20/2023	ND	4.0000		
Nickel, total	ug/L	MW88-2	09/12/2023	ND	4.0000		
Nickel, total	ug/L	MW88-2	03/12/2024	ND	4.0000		
Nickel, total	ug/L	MW88-2	09/30/2024	ND	4.0000		
Nickel, total	ug/L	MW88-2	03/24/2025		4.0000		
Nickel, total	ug/L	MW88-2	09/09/2025		6.9000		
Selenium, total	ug/L	MW88-2	09/18/2014	ND	4.0000		
Selenium, total	ug/L	MW88-2	11/13/2014	ND	4.0000		
Selenium, total	ug/L	MW88-2	03/17/2015	ND	4.0000		
Selenium, total	ug/L	MW88-2	06/29/2015	ND	4.0000		
Selenium, total	ug/L	MW88-2	09/11/2015	ND	4.0000		
Selenium, total	ug/L	MW88-2	03/16/2016	ND	4.0000		
Selenium, total	ug/L	MW88-2	09/08/2016	ND	4.0000		
Selenium, total	ug/L	MW88-2	03/17/2017	ND	4.0000		
Selenium, total	ug/L	MW88-2	09/19/2017	ND	4.0000		
Selenium, total	ug/L	MW88-2	03/08/2018	ND	4.0000		
Selenium, total	ug/L	MW88-2	09/24/2018	ND	4.0000		
Selenium, total	ug/L	MW88-2	03/25/2019	ND	4.0000		
Selenium, total	ug/L	MW88-2	09/03/2019	ND	4.0000		
Selenium, total	ug/L	MW88-2	03/23/2020	ND	4.0000		
Selenium, total	ug/L	MW88-2	09/04/2020	ND	4.0000		
Selenium, total	ug/L	MW88-2	03/09/2021	ND	4.0000		
Selenium, total	ug/L	MW88-2	03/28/2022	ND	4.0000		
Selenium, total	ug/L	MW88-2	09/14/2022	ND	4.0000		
Selenium, total	ug/L	MW88-2	03/20/2023	ND	4.0000		
Selenium, total	ug/L	MW88-2	09/12/2023	ND	4.0000		
Selenium, total	ug/L	MW88-2	03/12/2024	ND	4.0000		
Selenium, total	ug/L	MW88-2	09/30/2024	ND	4.0000		
Selenium, total	ug/L	MW88-2	03/24/2025	ND	4.0000		
Selenium, total	ug/L	MW88-2	09/09/2025	ND	2.0000	4.0000	**
Silver, total	ug/L	MW88-2	09/18/2014	ND	4.0000		
Silver, total	ug/L	MW88-2	11/13/2014	ND	4.0000		
Silver, total	ug/L	MW88-2	03/17/2015	ND	4.0000		
Silver, total	ug/L	MW88-2	06/29/2015	ND	4.0000		
Silver, total	ug/L	MW88-2	09/11/2015	ND	4.0000		
Silver, total	ug/L	MW88-2	03/16/2016	ND	4.0000		
Silver, total	ug/L	MW88-2	09/08/2016	ND	4.0000		
Silver, total	ug/L	MW88-2	03/17/2017	ND	4.0000		
Silver, total	ug/L	MW88-2	09/19/2017	ND	4.0000		
Silver, total	ug/L	MW88-2	03/08/2018	ND	4.0000		
Silver, total	ug/L	MW88-2	09/24/2018	ND	4.0000		
Silver, total	ug/L	MW88-2	03/25/2019	ND	4.0000		
Silver, total	ug/L	MW88-2	09/03/2019	ND	4.0000		
Silver, total	ug/L	MW88-2	03/23/2020	ND	4.0000		
Silver, total	ug/L	MW88-2	09/04/2020	ND	4.0000		

* - Outlier for that well and constituent.

** - ND value replaced with median RL.

*** - ND value replaced with manual RL.

ND = Not detected, Result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Silver, total	ug/L	MW88-2	03/09/2021	ND	4.0000		
Silver, total	ug/L	MW88-2	03/28/2022	ND	4.0000		
Silver, total	ug/L	MW88-2	09/14/2022	ND	4.0000		
Silver, total	ug/L	MW88-2	03/20/2023	ND	4.0000		
Silver, total	ug/L	MW88-2	09/12/2023	ND	4.0000		
Silver, total	ug/L	MW88-2	03/12/2024	ND	4.0000		
Silver, total	ug/L	MW88-2	09/30/2024	ND	4.0000		
Silver, total	ug/L	MW88-2	03/24/2025	ND	4.0000		
Silver, total	ug/L	MW88-2	09/09/2025	ND	5.0000	4.0000	**
Thallium, total	ug/L	MW88-2	09/18/2014	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW88-2	11/13/2014	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW88-2	03/17/2015	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW88-2	06/29/2015	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW88-2	09/11/2015	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW88-2	03/16/2016	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW88-2	09/08/2016	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW88-2	03/17/2017	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW88-2	09/19/2017	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW88-2	03/08/2018	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW88-2	09/24/2018	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW88-2	03/25/2019	ND	2.0000		
Thallium, total	ug/L	MW88-2	09/03/2019	ND	2.0000		
Thallium, total	ug/L	MW88-2	03/23/2020	ND	2.0000		
Thallium, total	ug/L	MW88-2	09/04/2020	ND	2.0000		
Thallium, total	ug/L	MW88-2	03/09/2021	ND	2.0000		
Thallium, total	ug/L	MW88-2	03/28/2022	ND	2.0000		
Thallium, total	ug/L	MW88-2	09/14/2022	ND	2.0000		
Thallium, total	ug/L	MW88-2	03/20/2023	ND	2.0000		
Thallium, total	ug/L	MW88-2	09/12/2023	ND	2.0000		
Thallium, total	ug/L	MW88-2	03/12/2024	ND	2.0000		
Thallium, total	ug/L	MW88-2	09/30/2024	ND	2.0000		
Thallium, total	ug/L	MW88-2	03/24/2025	ND	2.0000		
Thallium, total	ug/L	MW88-2	09/09/2025	ND	0.5000		*
Vanadium, total	ug/L	MW88-2	09/18/2014	ND	20.0000		
Vanadium, total	ug/L	MW88-2	11/13/2014	ND	20.0000		
Vanadium, total	ug/L	MW88-2	03/17/2015	ND	20.0000		
Vanadium, total	ug/L	MW88-2	06/29/2015	ND	20.0000		
Vanadium, total	ug/L	MW88-2	09/11/2015	ND	20.0000		
Vanadium, total	ug/L	MW88-2	03/16/2016	ND	20.0000		
Vanadium, total	ug/L	MW88-2	09/08/2016	ND	20.0000		
Vanadium, total	ug/L	MW88-2	03/17/2017	ND	20.0000		
Vanadium, total	ug/L	MW88-2	09/19/2017	ND	20.0000		
Vanadium, total	ug/L	MW88-2	03/08/2018	ND	20.0000		
Vanadium, total	ug/L	MW88-2	09/24/2018	ND	20.0000		
Vanadium, total	ug/L	MW88-2	03/25/2019	ND	20.0000		
Vanadium, total	ug/L	MW88-2	09/03/2019	ND	20.0000		
Vanadium, total	ug/L	MW88-2	03/23/2020	ND	20.0000		
Vanadium, total	ug/L	MW88-2	09/04/2020	ND	20.0000		
Vanadium, total	ug/L	MW88-2	03/09/2021	ND	20.0000		
Vanadium, total	ug/L	MW88-2	03/28/2022	ND	20.0000		
Vanadium, total	ug/L	MW88-2	09/14/2022	ND	20.0000		

* - Outlier for that well and constituent.

** - ND value replaced with median RL.

*** - ND value replaced with manual RL.

ND = Not detected, Result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Vanadium, total	ug/L	MW88-2	03/20/2023	ND	20.0000		
Vanadium, total	ug/L	MW88-2	09/12/2023	ND	20.0000		
Vanadium, total	ug/L	MW88-2	03/12/2024	ND	20.0000		
Vanadium, total	ug/L	MW88-2	09/30/2024	ND	20.0000		
Vanadium, total	ug/L	MW88-2	03/24/2025	ND	20.0000		
Vanadium, total	ug/L	MW88-2	09/09/2025	ND	2.0000		*
Zinc, total	ug/L	MW88-2	09/18/2014	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW88-2	11/13/2014	ND	20.0000		
Zinc, total	ug/L	MW88-2	03/17/2015	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW88-2	06/29/2015	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW88-2	09/11/2015	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW88-2	03/16/2016	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW88-2	09/08/2016	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW88-2	03/17/2017	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW88-2	09/19/2017		13.1000		
Zinc, total	ug/L	MW88-2	03/08/2018	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW88-2	09/24/2018	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW88-2	03/25/2019		39.1000		
Zinc, total	ug/L	MW88-2	09/03/2019		23.6000		
Zinc, total	ug/L	MW88-2	03/23/2020	ND	20.0000		
Zinc, total	ug/L	MW88-2	09/04/2020	ND	20.0000		
Zinc, total	ug/L	MW88-2	03/09/2021	ND	20.0000		
Zinc, total	ug/L	MW88-2	03/28/2022	ND	20.0000		
Zinc, total	ug/L	MW88-2	09/14/2022	ND	20.0000		
Zinc, total	ug/L	MW88-2	03/20/2023	ND	20.0000		
Zinc, total	ug/L	MW88-2	09/12/2023	ND	20.0000		
Zinc, total	ug/L	MW88-2	03/12/2024	ND	20.0000		
Zinc, total	ug/L	MW88-2	09/30/2024	ND	20.0000		
Zinc, total	ug/L	MW88-2	03/24/2025	ND	20.0000		
Zinc, total	ug/L	MW88-2	09/09/2025		12.0000		
Antimony, total	ug/L	MW91-8	09/19/2014	ND	2.0000		
Antimony, total	ug/L	MW91-8	11/13/2014	ND	2.0000		
Antimony, total	ug/L	MW91-8	03/17/2015	ND	2.0000		
Antimony, total	ug/L	MW91-8	06/29/2015	ND	2.0000		
Antimony, total	ug/L	MW91-8	09/11/2015	ND	2.0000		
Antimony, total	ug/L	MW91-8	03/16/2016	ND	2.0000		
Antimony, total	ug/L	MW91-8	09/08/2016	ND	2.0000		
Antimony, total	ug/L	MW91-8	03/17/2017	ND	2.0000		
Antimony, total	ug/L	MW91-8	09/19/2017	ND	2.0000		
Antimony, total	ug/L	MW91-8	03/08/2018	ND	2.0000		
Antimony, total	ug/L	MW91-8	09/24/2018	ND	2.0000		
Antimony, total	ug/L	MW91-8	03/25/2019	ND	2.0000		
Antimony, total	ug/L	MW91-8	09/03/2019	ND	2.0000		
Antimony, total	ug/L	MW91-8	03/23/2020	ND	2.0000		
Antimony, total	ug/L	MW91-8	09/04/2020	ND	2.0000		
Antimony, total	ug/L	MW91-8	03/09/2021	ND	2.0000		
Antimony, total	ug/L	MW91-8	09/07/2021	ND	2.0000		
Antimony, total	ug/L	MW91-8	03/28/2022	ND	2.0000		
Antimony, total	ug/L	MW91-8	09/14/2022	ND	2.0000		
Antimony, total	ug/L	MW91-8	03/20/2023	ND	2.0000		
Antimony, total	ug/L	MW91-8	09/13/2023	ND	2.0000		

* - Outlier for that well and constituent.

** - ND value replaced with median RL.

*** - ND value replaced with manual RL.

ND = Not detected, Result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Antimony, total	ug/L	MW91-8	03/12/2024	ND	2.0000		
Antimony, total	ug/L	MW91-8	09/30/2024	ND	2.0000		
Antimony, total	ug/L	MW91-8	03/24/2025	ND	1.0000	2.0000	**
Antimony, total	ug/L	MW91-8	09/09/2025	ND	1.0000	2.0000	**
Arsenic, total	ug/L	MW91-8	09/19/2014	ND	4.0000		
Arsenic, total	ug/L	MW91-8	11/13/2014	ND	4.0000		
Arsenic, total	ug/L	MW91-8	03/17/2015	ND	4.0000		
Arsenic, total	ug/L	MW91-8	06/29/2015	ND	4.0000		
Arsenic, total	ug/L	MW91-8	09/11/2015	ND	4.0000		
Arsenic, total	ug/L	MW91-8	03/16/2016	ND	4.0000		
Arsenic, total	ug/L	MW91-8	09/08/2016	ND	4.0000		
Arsenic, total	ug/L	MW91-8	03/17/2017	ND	4.0000		
Arsenic, total	ug/L	MW91-8	09/19/2017	ND	4.0000		
Arsenic, total	ug/L	MW91-8	03/08/2018	ND	4.0000		
Arsenic, total	ug/L	MW91-8	09/24/2018	ND	4.0000		
Arsenic, total	ug/L	MW91-8	03/25/2019	ND	4.0000		
Arsenic, total	ug/L	MW91-8	09/03/2019	ND	4.0000		
Arsenic, total	ug/L	MW91-8	03/23/2020	ND	4.0000		
Arsenic, total	ug/L	MW91-8	09/04/2020	ND	4.0000		
Arsenic, total	ug/L	MW91-8	03/09/2021	ND	4.0000		
Arsenic, total	ug/L	MW91-8	09/07/2021	ND	4.0000		
Arsenic, total	ug/L	MW91-8	03/28/2022	ND	4.0000		
Arsenic, total	ug/L	MW91-8	09/14/2022	ND	4.0000		
Arsenic, total	ug/L	MW91-8	03/20/2023	ND	4.0000		
Arsenic, total	ug/L	MW91-8	09/13/2023	ND	4.0000		
Arsenic, total	ug/L	MW91-8	03/12/2024	ND	4.0000		
Arsenic, total	ug/L	MW91-8	09/30/2024	ND	4.0000		
Arsenic, total	ug/L	MW91-8	03/24/2025	ND	2.0000	4.0000	**
Arsenic, total	ug/L	MW91-8	09/09/2025	ND	2.0000	4.0000	**
Barium, total	ug/L	MW91-8	09/19/2014		84.7000		
Barium, total	ug/L	MW91-8	11/13/2014		106.0000		
Barium, total	ug/L	MW91-8	03/17/2015		102.0000		
Barium, total	ug/L	MW91-8	06/29/2015		97.8000		
Barium, total	ug/L	MW91-8	09/11/2015		104.0000		
Barium, total	ug/L	MW91-8	03/16/2016		103.0000		
Barium, total	ug/L	MW91-8	09/08/2016		147.0000		
Barium, total	ug/L	MW91-8	03/17/2017		93.5000		
Barium, total	ug/L	MW91-8	09/19/2017		108.0000		
Barium, total	ug/L	MW91-8	03/08/2018		96.0000		
Barium, total	ug/L	MW91-8	09/24/2018		96.9000		
Barium, total	ug/L	MW91-8	03/25/2019		88.4000		
Barium, total	ug/L	MW91-8	09/03/2019		103.0000		
Barium, total	ug/L	MW91-8	03/23/2020		92.9000		
Barium, total	ug/L	MW91-8	09/04/2020		95.3000		
Barium, total	ug/L	MW91-8	03/09/2021		90.7000		
Barium, total	ug/L	MW91-8	09/07/2021		118.0000		
Barium, total	ug/L	MW91-8	03/28/2022		101.0000		
Barium, total	ug/L	MW91-8	09/14/2022		125.0000		
Barium, total	ug/L	MW91-8	03/20/2023		109.0000		
Barium, total	ug/L	MW91-8	09/13/2023		123.0000		
Barium, total	ug/L	MW91-8	03/12/2024		107.0000		

* - Outlier for that well and constituent.

** - ND value replaced with median RL.

*** - ND value replaced with manual RL.

ND = Not detected, Result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Barium, total	ug/L	MW91-8	09/30/2024		109.0000		
Barium, total	ug/L	MW91-8	03/24/2025		96.4000		
Barium, total	ug/L	MW91-8	09/09/2025		109.0000		
Beryllium, total	ug/L	MW91-8	09/19/2014	ND	4.0000		
Beryllium, total	ug/L	MW91-8	11/13/2014	ND	4.0000		
Beryllium, total	ug/L	MW91-8	03/17/2015	ND	4.0000		
Beryllium, total	ug/L	MW91-8	06/29/2015	ND	4.0000		
Beryllium, total	ug/L	MW91-8	09/11/2015	ND	4.0000		
Beryllium, total	ug/L	MW91-8	03/16/2016	ND	4.0000		
Beryllium, total	ug/L	MW91-8	09/08/2016	ND	4.0000		
Beryllium, total	ug/L	MW91-8	03/17/2017	ND	4.0000		
Beryllium, total	ug/L	MW91-8	09/19/2017	ND	4.0000		
Beryllium, total	ug/L	MW91-8	03/08/2018	ND	4.0000		
Beryllium, total	ug/L	MW91-8	09/24/2018	ND	4.0000		
Beryllium, total	ug/L	MW91-8	03/25/2019	ND	4.0000		
Beryllium, total	ug/L	MW91-8	09/03/2019	ND	4.0000		
Beryllium, total	ug/L	MW91-8	03/23/2020	ND	4.0000		
Beryllium, total	ug/L	MW91-8	09/04/2020	ND	4.0000		
Beryllium, total	ug/L	MW91-8	03/09/2021	ND	4.0000		
Beryllium, total	ug/L	MW91-8	09/07/2021	ND	4.0000		
Beryllium, total	ug/L	MW91-8	03/28/2022	ND	4.0000		
Beryllium, total	ug/L	MW91-8	09/14/2022	ND	4.0000		
Beryllium, total	ug/L	MW91-8	03/20/2023	ND	4.0000		
Beryllium, total	ug/L	MW91-8	09/13/2023	ND	4.0000		
Beryllium, total	ug/L	MW91-8	03/12/2024	ND	4.0000		
Beryllium, total	ug/L	MW91-8	09/30/2024	ND	4.0000		
Beryllium, total	ug/L	MW91-8	03/24/2025	ND	0.5000		*
Beryllium, total	ug/L	MW91-8	09/09/2025	ND	0.5000		*
Cadmium, total	ug/L	MW91-8	09/19/2014	ND	0.8000		
Cadmium, total	ug/L	MW91-8	11/13/2014	ND	0.8000		
Cadmium, total	ug/L	MW91-8	03/17/2015		2.3000		
Cadmium, total	ug/L	MW91-8	06/29/2015	ND	0.8000		
Cadmium, total	ug/L	MW91-8	09/11/2015		2.4000		
Cadmium, total	ug/L	MW91-8	03/16/2016		1.4000		
Cadmium, total	ug/L	MW91-8	09/08/2016	ND	0.8000		
Cadmium, total	ug/L	MW91-8	03/17/2017		1.3000		
Cadmium, total	ug/L	MW91-8	09/19/2017		2.2000		
Cadmium, total	ug/L	MW91-8	03/08/2018	ND	0.8000		
Cadmium, total	ug/L	MW91-8	09/24/2018	ND	0.8000		
Cadmium, total	ug/L	MW91-8	03/25/2019	ND	0.8000		
Cadmium, total	ug/L	MW91-8	09/03/2019	ND	0.8000		
Cadmium, total	ug/L	MW91-8	03/23/2020	ND	0.8000		
Cadmium, total	ug/L	MW91-8	09/04/2020	ND	0.8000		
Cadmium, total	ug/L	MW91-8	03/09/2021	ND	0.8000		
Cadmium, total	ug/L	MW91-8	09/07/2021	ND	0.8000		
Cadmium, total	ug/L	MW91-8	03/28/2022	ND	0.8000		
Cadmium, total	ug/L	MW91-8	09/14/2022	ND	0.8000		
Cadmium, total	ug/L	MW91-8	03/20/2023	ND	0.8000		
Cadmium, total	ug/L	MW91-8	09/13/2023	ND	0.8000		
Cadmium, total	ug/L	MW91-8	03/12/2024	ND	0.8000		
Cadmium, total	ug/L	MW91-8	09/30/2024	ND	0.8000		

* - Outlier for that well and constituent.

** - ND value replaced with median RL.

*** - ND value replaced with manual RL.

ND = Not detected, Result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Cadmium, total	ug/L	MW91-8	03/24/2025		0.5000		
Cadmium, total	ug/L	MW91-8	09/09/2025		0.2000		*
Chromium, total	ug/L	MW91-8	09/19/2014	ND	8.0000		
Chromium, total	ug/L	MW91-8	11/13/2014	ND	8.0000		
Chromium, total	ug/L	MW91-8	03/17/2015	ND	8.0000		
Chromium, total	ug/L	MW91-8	06/29/2015	ND	8.0000		
Chromium, total	ug/L	MW91-8	09/11/2015	ND	8.0000		
Chromium, total	ug/L	MW91-8	03/16/2016	ND	8.0000		
Chromium, total	ug/L	MW91-8	09/08/2016	ND	8.0000		
Chromium, total	ug/L	MW91-8	03/17/2017	ND	8.0000		
Chromium, total	ug/L	MW91-8	09/19/2017	ND	8.0000		
Chromium, total	ug/L	MW91-8	03/08/2018	ND	8.0000		
Chromium, total	ug/L	MW91-8	09/24/2018	ND	8.0000		
Chromium, total	ug/L	MW91-8	03/25/2019	ND	8.0000		
Chromium, total	ug/L	MW91-8	09/03/2019	ND	8.0000		
Chromium, total	ug/L	MW91-8	03/23/2020	ND	8.0000		
Chromium, total	ug/L	MW91-8	09/04/2020	ND	8.0000		
Chromium, total	ug/L	MW91-8	03/09/2021	ND	8.0000		
Chromium, total	ug/L	MW91-8	09/07/2021	ND	8.0000		
Chromium, total	ug/L	MW91-8	03/28/2022	ND	8.0000		
Chromium, total	ug/L	MW91-8	09/14/2022	ND	8.0000		
Chromium, total	ug/L	MW91-8	03/20/2023	ND	8.0000		
Chromium, total	ug/L	MW91-8	09/13/2023	ND	8.0000		
Chromium, total	ug/L	MW91-8	03/12/2024	ND	8.0000		
Chromium, total	ug/L	MW91-8	09/30/2024	ND	8.0000		
Chromium, total	ug/L	MW91-8	03/24/2025		1.6000		*
Chromium, total	ug/L	MW91-8	09/09/2025	ND	1.0000		*
Cobalt, total	ug/L	MW91-8	09/19/2014	ND	0.8000		
Cobalt, total	ug/L	MW91-8	11/13/2014	ND	0.8000		
Cobalt, total	ug/L	MW91-8	03/17/2015	ND	0.8000		
Cobalt, total	ug/L	MW91-8	06/29/2015	ND	0.8000		
Cobalt, total	ug/L	MW91-8	09/11/2015	ND	0.8000		
Cobalt, total	ug/L	MW91-8	03/16/2016	ND	0.8000		
Cobalt, total	ug/L	MW91-8	09/08/2016	ND	0.8000		
Cobalt, total	ug/L	MW91-8	03/17/2017	ND	0.8000		
Cobalt, total	ug/L	MW91-8	09/19/2017	ND	0.8000		
Cobalt, total	ug/L	MW91-8	03/08/2018	ND	0.8000		
Cobalt, total	ug/L	MW91-8	09/24/2018	ND	0.8000		
Cobalt, total	ug/L	MW91-8	03/25/2019	ND	0.8000		
Cobalt, total	ug/L	MW91-8	09/03/2019	ND	0.8000		
Cobalt, total	ug/L	MW91-8	03/23/2020	ND	0.8000		
Cobalt, total	ug/L	MW91-8	09/04/2020	ND	0.4000	0.8000	**
Cobalt, total	ug/L	MW91-8	03/09/2021	ND	0.4000	0.8000	**
Cobalt, total	ug/L	MW91-8	09/07/2021	ND	0.4000	0.8000	**
Cobalt, total	ug/L	MW91-8	03/28/2022	ND	0.4000	0.8000	**
Cobalt, total	ug/L	MW91-8	09/14/2022		2.7000		*
Cobalt, total	ug/L	MW91-8	03/20/2023	ND	0.4000	0.8000	**
Cobalt, total	ug/L	MW91-8	09/13/2023	ND	0.4000	0.8000	**
Cobalt, total	ug/L	MW91-8	03/12/2024	ND	0.4000	0.8000	**
Cobalt, total	ug/L	MW91-8	09/30/2024	ND	0.4000	0.8000	**
Cobalt, total	ug/L	MW91-8	03/24/2025	ND	0.5000	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	MW91-8	09/09/2025	ND	0.5000	0.8000	**
Copper, total	ug/L	MW91-8	09/19/2014	ND	4.0000		
Copper, total	ug/L	MW91-8	11/13/2014	ND	4.0000		
Copper, total	ug/L	MW91-8	03/17/2015	ND	4.0000		
Copper, total	ug/L	MW91-8	06/29/2015	ND	4.0000		
Copper, total	ug/L	MW91-8	09/11/2015	ND	4.0000		
Copper, total	ug/L	MW91-8	03/16/2016	ND	4.0000		
Copper, total	ug/L	MW91-8	09/08/2016	ND	4.0000		
Copper, total	ug/L	MW91-8	03/17/2017	ND	4.0000		
Copper, total	ug/L	MW91-8	09/19/2017	ND	4.0000		
Copper, total	ug/L	MW91-8	03/08/2018	ND	4.0000		
Copper, total	ug/L	MW91-8	09/24/2018	ND	4.0000		
Copper, total	ug/L	MW91-8	03/25/2019	ND	4.0000		
Copper, total	ug/L	MW91-8	09/03/2019	ND	4.0000		
Copper, total	ug/L	MW91-8	03/23/2020	ND	4.0000		
Copper, total	ug/L	MW91-8	09/04/2020	ND	4.0000		
Copper, total	ug/L	MW91-8	03/09/2021	ND	4.0000		
Copper, total	ug/L	MW91-8	09/07/2021	ND	4.0000		
Copper, total	ug/L	MW91-8	03/28/2022	ND	4.0000		
Copper, total	ug/L	MW91-8	09/14/2022	ND	4.0000		
Copper, total	ug/L	MW91-8	03/20/2023	ND	4.0000		
Copper, total	ug/L	MW91-8	09/13/2023	ND	4.0000		
Copper, total	ug/L	MW91-8	03/12/2024	ND	4.0000		
Copper, total	ug/L	MW91-8	09/30/2024	ND	4.0000		
Copper, total	ug/L	MW91-8	03/24/2025	ND	4.0000		
Copper, total	ug/L	MW91-8	09/09/2025	ND	5.0000	4.0000	**
Lead, total	ug/L	MW91-8	09/19/2014	ND	4.0000		
Lead, total	ug/L	MW91-8	11/13/2014	ND	4.0000		
Lead, total	ug/L	MW91-8	03/17/2015	ND	4.0000		
Lead, total	ug/L	MW91-8	06/29/2015	ND	4.0000		
Lead, total	ug/L	MW91-8	09/11/2015	ND	4.0000		
Lead, total	ug/L	MW91-8	03/16/2016	ND	4.0000		
Lead, total	ug/L	MW91-8	09/08/2016	ND	4.0000		
Lead, total	ug/L	MW91-8	03/17/2017	ND	4.0000		
Lead, total	ug/L	MW91-8	09/19/2017	ND	4.0000		
Lead, total	ug/L	MW91-8	03/08/2018	ND	4.0000		
Lead, total	ug/L	MW91-8	09/24/2018	ND	4.0000		
Lead, total	ug/L	MW91-8	03/25/2019	ND	4.0000		
Lead, total	ug/L	MW91-8	09/03/2019	ND	4.0000		
Lead, total	ug/L	MW91-8	03/23/2020	ND	4.0000		
Lead, total	ug/L	MW91-8	09/04/2020	ND	4.0000		
Lead, total	ug/L	MW91-8	03/09/2021	ND	4.0000		
Lead, total	ug/L	MW91-8	09/07/2021	ND	4.0000		
Lead, total	ug/L	MW91-8	03/28/2022	ND	4.0000		
Lead, total	ug/L	MW91-8	09/14/2022	ND	4.0000		
Lead, total	ug/L	MW91-8	03/20/2023	ND	4.0000		
Lead, total	ug/L	MW91-8	09/13/2023	ND	4.0000		
Lead, total	ug/L	MW91-8	03/12/2024	ND	4.0000		
Lead, total	ug/L	MW91-8	09/30/2024	ND	4.0000		
Lead, total	ug/L	MW91-8	03/24/2025	ND	1.0000		*
Lead, total	ug/L	MW91-8	09/09/2025	ND	1.0000		*

* - Outlier for that well and constituent.

** - ND value replaced with median RL.

*** - ND value replaced with manual RL.

ND = Not detected, Result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Nickel, total	ug/L	MW91-8	09/19/2014	ND	4.0000		
Nickel, total	ug/L	MW91-8	11/13/2014	ND	4.0000		
Nickel, total	ug/L	MW91-8	03/17/2015	ND	4.0000		
Nickel, total	ug/L	MW91-8	06/29/2015	ND	4.0000		
Nickel, total	ug/L	MW91-8	09/11/2015	ND	4.0000		
Nickel, total	ug/L	MW91-8	03/16/2016	ND	4.0000		
Nickel, total	ug/L	MW91-8	09/08/2016	ND	4.0000		
Nickel, total	ug/L	MW91-8	03/17/2017	ND	4.0000		
Nickel, total	ug/L	MW91-8	09/19/2017	ND	4.0000		
Nickel, total	ug/L	MW91-8	03/08/2018	ND	4.0000		
Nickel, total	ug/L	MW91-8	09/24/2018	ND	4.0000		
Nickel, total	ug/L	MW91-8	03/25/2019	ND	4.0000		
Nickel, total	ug/L	MW91-8	09/03/2019	ND	4.0000		
Nickel, total	ug/L	MW91-8	03/23/2020	ND	4.0000		
Nickel, total	ug/L	MW91-8	09/04/2020	ND	4.0000		
Nickel, total	ug/L	MW91-8	03/09/2021	ND	4.0000		
Nickel, total	ug/L	MW91-8	09/07/2021	ND	4.0000		
Nickel, total	ug/L	MW91-8	03/28/2022	ND	4.0000		
Nickel, total	ug/L	MW91-8	09/14/2022	ND	4.0000		
Nickel, total	ug/L	MW91-8	03/20/2023	ND	4.0000		
Nickel, total	ug/L	MW91-8	09/13/2023	ND	4.0000		
Nickel, total	ug/L	MW91-8	03/12/2024	ND	4.0000		
Nickel, total	ug/L	MW91-8	09/30/2024	ND	4.0000		
Nickel, total	ug/L	MW91-8	03/24/2025	ND	4.0000		
Nickel, total	ug/L	MW91-8	09/09/2025	ND	5.0000	4.0000	**
Selenium, total	ug/L	MW91-8	09/19/2014		5.1000		
Selenium, total	ug/L	MW91-8	11/13/2014	ND	4.0000		
Selenium, total	ug/L	MW91-8	03/17/2015	ND	4.0000		
Selenium, total	ug/L	MW91-8	06/29/2015	ND	4.0000		
Selenium, total	ug/L	MW91-8	09/11/2015	ND	4.0000		
Selenium, total	ug/L	MW91-8	03/16/2016	ND	4.0000		
Selenium, total	ug/L	MW91-8	09/08/2016	ND	4.0000		
Selenium, total	ug/L	MW91-8	03/17/2017	ND	4.0000		
Selenium, total	ug/L	MW91-8	09/19/2017	ND	4.0000		
Selenium, total	ug/L	MW91-8	03/08/2018	ND	4.0000		
Selenium, total	ug/L	MW91-8	09/24/2018	ND	4.0000		
Selenium, total	ug/L	MW91-8	03/25/2019	ND	4.0000		
Selenium, total	ug/L	MW91-8	09/03/2019	ND	4.0000		
Selenium, total	ug/L	MW91-8	03/23/2020	ND	4.0000		
Selenium, total	ug/L	MW91-8	09/04/2020	ND	4.0000		
Selenium, total	ug/L	MW91-8	03/09/2021	ND	4.0000		
Selenium, total	ug/L	MW91-8	09/07/2021		4.0000		
Selenium, total	ug/L	MW91-8	03/28/2022	ND	4.0000		
Selenium, total	ug/L	MW91-8	09/14/2022	ND	4.0000		
Selenium, total	ug/L	MW91-8	03/20/2023	ND	4.0000		
Selenium, total	ug/L	MW91-8	09/13/2023	ND	4.0000		
Selenium, total	ug/L	MW91-8	03/12/2024	ND	4.0000		
Selenium, total	ug/L	MW91-8	09/30/2024	ND	4.0000		
Selenium, total	ug/L	MW91-8	03/24/2025		2.1000		
Selenium, total	ug/L	MW91-8	09/09/2025		3.3000		
Silver, total	ug/L	MW91-8	09/19/2014	ND	4.0000		

* - Outlier for that well and constituent.

** - ND value replaced with median RL.

*** - ND value replaced with manual RL.

ND = Not detected, Result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Silver, total	ug/L	MW91-8	11/13/2014	ND	4.0000		
Silver, total	ug/L	MW91-8	03/17/2015	ND	4.0000		
Silver, total	ug/L	MW91-8	06/29/2015	ND	4.0000		
Silver, total	ug/L	MW91-8	09/11/2015	ND	4.0000		
Silver, total	ug/L	MW91-8	03/16/2016	ND	4.0000		
Silver, total	ug/L	MW91-8	09/08/2016	ND	4.0000		
Silver, total	ug/L	MW91-8	03/17/2017	ND	4.0000		
Silver, total	ug/L	MW91-8	09/19/2017	ND	4.0000		
Silver, total	ug/L	MW91-8	03/08/2018	ND	4.0000		
Silver, total	ug/L	MW91-8	09/24/2018	ND	4.0000		
Silver, total	ug/L	MW91-8	03/25/2019	ND	4.0000		
Silver, total	ug/L	MW91-8	09/03/2019	ND	4.0000		
Silver, total	ug/L	MW91-8	03/23/2020	ND	4.0000		
Silver, total	ug/L	MW91-8	09/04/2020	ND	4.0000		
Silver, total	ug/L	MW91-8	03/09/2021	ND	4.0000		
Silver, total	ug/L	MW91-8	09/07/2021	ND	4.0000		
Silver, total	ug/L	MW91-8	03/28/2022	ND	4.0000		
Silver, total	ug/L	MW91-8	09/14/2022	ND	4.0000		
Silver, total	ug/L	MW91-8	03/20/2023	ND	4.0000		
Silver, total	ug/L	MW91-8	09/13/2023	ND	4.0000		
Silver, total	ug/L	MW91-8	03/12/2024	ND	4.0000		
Silver, total	ug/L	MW91-8	09/30/2024	ND	4.0000		
Silver, total	ug/L	MW91-8	03/24/2025	ND	5.0000	4.0000	**
Silver, total	ug/L	MW91-8	09/09/2025	ND	5.0000	4.0000	**
Thallium, total	ug/L	MW91-8	09/19/2014	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW91-8	11/13/2014	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW91-8	03/17/2015	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW91-8	06/29/2015	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW91-8	09/11/2015	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW91-8	03/16/2016	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW91-8	09/08/2016	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW91-8	03/17/2017	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW91-8	09/19/2017	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW91-8	03/08/2018	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW91-8	09/24/2018	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW91-8	03/25/2019	ND	2.0000		
Thallium, total	ug/L	MW91-8	09/03/2019	ND	2.0000		
Thallium, total	ug/L	MW91-8	03/23/2020	ND	2.0000		
Thallium, total	ug/L	MW91-8	09/04/2020	ND	2.0000		
Thallium, total	ug/L	MW91-8	03/09/2021	ND	2.0000		
Thallium, total	ug/L	MW91-8	09/07/2021	ND	2.0000		
Thallium, total	ug/L	MW91-8	03/28/2022	ND	2.0000		
Thallium, total	ug/L	MW91-8	09/14/2022	ND	2.0000		
Thallium, total	ug/L	MW91-8	03/20/2023	ND	2.0000		
Thallium, total	ug/L	MW91-8	09/13/2023	ND	2.0000		
Thallium, total	ug/L	MW91-8	03/12/2024	ND	2.0000		
Thallium, total	ug/L	MW91-8	09/30/2024	ND	2.0000		
Thallium, total	ug/L	MW91-8	03/24/2025	ND	0.5000		*
Thallium, total	ug/L	MW91-8	09/09/2025	ND	0.5000		*
Vanadium, total	ug/L	MW91-8	09/19/2014	ND	20.0000		
Vanadium, total	ug/L	MW91-8	11/13/2014	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	MW91-8	03/17/2015	ND	20.0000		
Vanadium, total	ug/L	MW91-8	06/29/2015	ND	20.0000		
Vanadium, total	ug/L	MW91-8	09/11/2015	ND	20.0000		
Vanadium, total	ug/L	MW91-8	03/16/2016	ND	20.0000		
Vanadium, total	ug/L	MW91-8	09/08/2016	ND	20.0000		
Vanadium, total	ug/L	MW91-8	03/17/2017	ND	20.0000		
Vanadium, total	ug/L	MW91-8	09/19/2017	ND	20.0000		
Vanadium, total	ug/L	MW91-8	03/08/2018	ND	20.0000		
Vanadium, total	ug/L	MW91-8	09/24/2018	ND	20.0000		
Vanadium, total	ug/L	MW91-8	03/25/2019	ND	20.0000		
Vanadium, total	ug/L	MW91-8	09/03/2019	ND	20.0000		
Vanadium, total	ug/L	MW91-8	03/23/2020	ND	20.0000		
Vanadium, total	ug/L	MW91-8	09/04/2020	ND	20.0000		
Vanadium, total	ug/L	MW91-8	03/09/2021	ND	20.0000		
Vanadium, total	ug/L	MW91-8	09/07/2021	ND	20.0000		
Vanadium, total	ug/L	MW91-8	03/28/2022	ND	20.0000		
Vanadium, total	ug/L	MW91-8	09/14/2022	ND	20.0000		
Vanadium, total	ug/L	MW91-8	03/20/2023	ND	20.0000		
Vanadium, total	ug/L	MW91-8	09/13/2023	ND	20.0000		
Vanadium, total	ug/L	MW91-8	03/12/2024	ND	20.0000		
Vanadium, total	ug/L	MW91-8	09/30/2024	ND	20.0000		
Vanadium, total	ug/L	MW91-8	03/24/2025	ND	2.0000		*
Vanadium, total	ug/L	MW91-8	09/09/2025	ND	2.0000		*
Zinc, total	ug/L	MW91-8	09/19/2014	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW91-8	11/13/2014	ND	20.0000		
Zinc, total	ug/L	MW91-8	03/17/2015	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW91-8	06/29/2015	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW91-8	09/11/2015	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW91-8	03/16/2016	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW91-8	09/08/2016	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW91-8	03/17/2017		8.7000		
Zinc, total	ug/L	MW91-8	09/19/2017	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW91-8	03/08/2018	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW91-8	09/24/2018	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW91-8	03/25/2019	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW91-8	09/03/2019	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW91-8	03/23/2020	ND	20.0000		
Zinc, total	ug/L	MW91-8	09/04/2020	ND	20.0000		
Zinc, total	ug/L	MW91-8	03/09/2021	ND	20.0000		
Zinc, total	ug/L	MW91-8	09/07/2021	ND	20.0000		
Zinc, total	ug/L	MW91-8	03/28/2022	ND	20.0000		
Zinc, total	ug/L	MW91-8	09/14/2022	ND	20.0000		
Zinc, total	ug/L	MW91-8	03/20/2023	ND	20.0000		
Zinc, total	ug/L	MW91-8	09/13/2023	ND	20.0000		
Zinc, total	ug/L	MW91-8	03/12/2024	ND	20.0000		
Zinc, total	ug/L	MW91-8	09/30/2024	ND	20.0000		
Zinc, total	ug/L	MW91-8	03/24/2025	ND	5.0000	20.0000	**
Zinc, total	ug/L	MW91-8	09/09/2025		6.3000		
Antimony, total	ug/L	MW98-28	09/18/2014	ND	2.0000		
Antimony, total	ug/L	MW98-28	11/13/2014		2.5000		
Antimony, total	ug/L	MW98-28	03/17/2015	ND	2.0000		

* - Outlier for that well and constituent.

** - ND value replaced with median RL.

*** - ND value replaced with manual RL.

ND = Not detected, Result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Antimony, total	ug/L	MW98-28	06/29/2015	ND	2.0000		
Antimony, total	ug/L	MW98-28	09/11/2015	ND	2.0000		
Antimony, total	ug/L	MW98-28	03/16/2016	ND	2.0000		
Antimony, total	ug/L	MW98-28	09/08/2016	ND	2.0000		
Antimony, total	ug/L	MW98-28	03/17/2017	ND	2.0000		
Antimony, total	ug/L	MW98-28	09/19/2017		4.5000		
Antimony, total	ug/L	MW98-28	03/08/2018	ND	2.0000		
Antimony, total	ug/L	MW98-28	09/24/2018		2.1000		
Antimony, total	ug/L	MW98-28	03/25/2019	ND	2.0000		
Antimony, total	ug/L	MW98-28	09/03/2019	ND	2.0000		
Antimony, total	ug/L	MW98-28	03/23/2020	ND	2.0000		
Antimony, total	ug/L	MW98-28	09/04/2020	ND	2.0000		
Antimony, total	ug/L	MW98-28	03/09/2021	ND	2.0000		
Antimony, total	ug/L	MW98-28	09/07/2021	ND	2.0000		
Antimony, total	ug/L	MW98-28	03/28/2022		2.3000		
Antimony, total	ug/L	MW98-28	09/14/2022	ND	2.0000		
Antimony, total	ug/L	MW98-28	03/20/2023	ND	2.0000		
Antimony, total	ug/L	MW98-28	09/12/2023	ND	2.0000		
Antimony, total	ug/L	MW98-28	03/12/2024	ND	2.0000		
Antimony, total	ug/L	MW98-28	09/30/2024	ND	2.0000		
Antimony, total	ug/L	MW98-28	03/24/2025	ND	2.0000		
Antimony, total	ug/L	MW98-28	09/09/2025	ND	1.0000	2.0000	**
Arsenic, total	ug/L	MW98-28	09/18/2014		18.9000		*
Arsenic, total	ug/L	MW98-28	11/13/2014	ND	4.0000		
Arsenic, total	ug/L	MW98-28	03/17/2015	ND	4.0000		
Arsenic, total	ug/L	MW98-28	06/29/2015		9.5000		
Arsenic, total	ug/L	MW98-28	09/11/2015	ND	4.0000		
Arsenic, total	ug/L	MW98-28	03/16/2016	ND	4.0000		
Arsenic, total	ug/L	MW98-28	09/08/2016	ND	4.0000		
Arsenic, total	ug/L	MW98-28	03/17/2017	ND	4.0000		
Arsenic, total	ug/L	MW98-28	09/19/2017	ND	4.0000		
Arsenic, total	ug/L	MW98-28	03/08/2018	ND	4.0000		
Arsenic, total	ug/L	MW98-28	09/24/2018	ND	4.0000		
Arsenic, total	ug/L	MW98-28	03/25/2019	ND	4.0000		
Arsenic, total	ug/L	MW98-28	09/03/2019	ND	4.0000		
Arsenic, total	ug/L	MW98-28	03/23/2020	ND	4.0000		
Arsenic, total	ug/L	MW98-28	09/04/2020	ND	4.0000		
Arsenic, total	ug/L	MW98-28	03/09/2021		8.2000		
Arsenic, total	ug/L	MW98-28	09/07/2021	ND	4.0000		
Arsenic, total	ug/L	MW98-28	03/28/2022	ND	4.0000		
Arsenic, total	ug/L	MW98-28	09/14/2022	ND	4.0000		
Arsenic, total	ug/L	MW98-28	03/20/2023	ND	4.0000		
Arsenic, total	ug/L	MW98-28	09/12/2023	ND	4.0000		
Arsenic, total	ug/L	MW98-28	03/12/2024	ND	4.0000		
Arsenic, total	ug/L	MW98-28	09/30/2024	ND	4.0000		
Arsenic, total	ug/L	MW98-28	03/24/2025	ND	4.0000		
Arsenic, total	ug/L	MW98-28	09/09/2025	ND	2.0000	4.0000	**
Barium, total	ug/L	MW98-28	09/18/2014		536.0000		
Barium, total	ug/L	MW98-28	11/13/2014		105.0000		
Barium, total	ug/L	MW98-28	03/17/2015		98.0000		
Barium, total	ug/L	MW98-28	06/29/2015		305.0000		

* - Outlier for that well and constituent.

** - ND value replaced with median RL.

*** - ND value replaced with manual RL.

ND = Not detected, Result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Barium, total	ug/L	MW98-28	09/11/2015		107.0000		
Barium, total	ug/L	MW98-28	03/16/2016		109.0000		
Barium, total	ug/L	MW98-28	09/08/2016		144.0000		
Barium, total	ug/L	MW98-28	03/17/2017		125.0000		
Barium, total	ug/L	MW98-28	09/19/2017		181.0000		
Barium, total	ug/L	MW98-28	03/08/2018		172.0000		
Barium, total	ug/L	MW98-28	09/24/2018		169.0000		
Barium, total	ug/L	MW98-28	03/25/2019		113.0000		
Barium, total	ug/L	MW98-28	09/03/2019		143.0000		
Barium, total	ug/L	MW98-28	03/23/2020		119.0000		
Barium, total	ug/L	MW98-28	09/04/2020		156.0000		
Barium, total	ug/L	MW98-28	03/09/2021		341.0000		
Barium, total	ug/L	MW98-28	09/07/2021		147.0000		
Barium, total	ug/L	MW98-28	03/28/2022		254.0000		
Barium, total	ug/L	MW98-28	09/14/2022		236.0000		
Barium, total	ug/L	MW98-28	03/20/2023		226.0000		
Barium, total	ug/L	MW98-28	09/12/2023		277.0000		
Barium, total	ug/L	MW98-28	03/12/2024		246.0000		
Barium, total	ug/L	MW98-28	09/30/2024		270.0000		
Barium, total	ug/L	MW98-28	03/24/2025		256.0000		
Barium, total	ug/L	MW98-28	09/09/2025		237.0000		
Beryllium, total	ug/L	MW98-28	09/18/2014	ND	4.0000		
Beryllium, total	ug/L	MW98-28	11/13/2014	ND	4.0000		
Beryllium, total	ug/L	MW98-28	03/17/2015	ND	4.0000		
Beryllium, total	ug/L	MW98-28	06/29/2015	ND	4.0000		
Beryllium, total	ug/L	MW98-28	09/11/2015	ND	4.0000		
Beryllium, total	ug/L	MW98-28	03/16/2016	ND	4.0000		
Beryllium, total	ug/L	MW98-28	09/08/2016	ND	4.0000		
Beryllium, total	ug/L	MW98-28	03/17/2017	ND	4.0000		
Beryllium, total	ug/L	MW98-28	09/19/2017	ND	4.0000		
Beryllium, total	ug/L	MW98-28	03/08/2018	ND	4.0000		
Beryllium, total	ug/L	MW98-28	09/24/2018	ND	4.0000		
Beryllium, total	ug/L	MW98-28	03/25/2019	ND	4.0000		
Beryllium, total	ug/L	MW98-28	09/03/2019	ND	4.0000		
Beryllium, total	ug/L	MW98-28	03/23/2020	ND	4.0000		
Beryllium, total	ug/L	MW98-28	09/04/2020	ND	4.0000		
Beryllium, total	ug/L	MW98-28	03/09/2021	ND	4.0000		
Beryllium, total	ug/L	MW98-28	09/07/2021	ND	4.0000		
Beryllium, total	ug/L	MW98-28	03/28/2022	ND	4.0000		
Beryllium, total	ug/L	MW98-28	09/14/2022	ND	4.0000		
Beryllium, total	ug/L	MW98-28	03/20/2023	ND	4.0000		
Beryllium, total	ug/L	MW98-28	09/12/2023	ND	4.0000		
Beryllium, total	ug/L	MW98-28	03/12/2024	ND	4.0000		
Beryllium, total	ug/L	MW98-28	09/30/2024	ND	4.0000		
Beryllium, total	ug/L	MW98-28	03/24/2025	ND	4.0000		
Beryllium, total	ug/L	MW98-28	09/09/2025	ND	0.5000		*
Cadmium, total	ug/L	MW98-28	09/18/2014		11.8000		*
Cadmium, total	ug/L	MW98-28	11/13/2014	ND	0.8000		
Cadmium, total	ug/L	MW98-28	03/17/2015	ND	0.8000		
Cadmium, total	ug/L	MW98-28	06/29/2015		1.1000		
Cadmium, total	ug/L	MW98-28	09/11/2015	ND	0.8000		

* - Outlier for that well and constituent.

** - ND value replaced with median RL.

*** - ND value replaced with manual RL.

ND = Not detected, Result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Cadmium, total	ug/L	MW98-28	03/16/2016	ND	0.8000		
Cadmium, total	ug/L	MW98-28	09/08/2016	ND	0.8000		
Cadmium, total	ug/L	MW98-28	03/17/2017	ND	0.8000		
Cadmium, total	ug/L	MW98-28	09/19/2017	ND	0.8000		
Cadmium, total	ug/L	MW98-28	03/08/2018	ND	0.8000		
Cadmium, total	ug/L	MW98-28	09/24/2018	ND	0.8000		
Cadmium, total	ug/L	MW98-28	03/25/2019	ND	0.8000		
Cadmium, total	ug/L	MW98-28	09/03/2019	ND	0.8000		
Cadmium, total	ug/L	MW98-28	03/23/2020	ND	0.8000		
Cadmium, total	ug/L	MW98-28	09/04/2020	ND	0.8000		
Cadmium, total	ug/L	MW98-28	03/09/2021	ND	0.8000		
Cadmium, total	ug/L	MW98-28	09/07/2021	ND	0.8000		
Cadmium, total	ug/L	MW98-28	03/28/2022	ND	0.8000		
Cadmium, total	ug/L	MW98-28	09/14/2022	ND	0.8000		
Cadmium, total	ug/L	MW98-28	03/20/2023	ND	0.8000		
Cadmium, total	ug/L	MW98-28	09/12/2023	ND	0.8000		
Cadmium, total	ug/L	MW98-28	03/12/2024	ND	0.8000		
Cadmium, total	ug/L	MW98-28	09/30/2024	ND	0.8000		
Cadmium, total	ug/L	MW98-28	03/24/2025	ND	0.8000		
Cadmium, total	ug/L	MW98-28	09/09/2025	ND	0.2000		*
Chromium, total	ug/L	MW98-28	09/18/2014		43.4000		*
Chromium, total	ug/L	MW98-28	11/13/2014	ND	8.0000		
Chromium, total	ug/L	MW98-28	03/17/2015	ND	8.0000		
Chromium, total	ug/L	MW98-28	06/29/2015		24.9000		*
Chromium, total	ug/L	MW98-28	09/11/2015	ND	8.0000		
Chromium, total	ug/L	MW98-28	03/16/2016	ND	8.0000		
Chromium, total	ug/L	MW98-28	09/08/2016	ND	8.0000		
Chromium, total	ug/L	MW98-28	03/17/2017	ND	8.0000		
Chromium, total	ug/L	MW98-28	09/19/2017	ND	8.0000		
Chromium, total	ug/L	MW98-28	03/08/2018	ND	8.0000		
Chromium, total	ug/L	MW98-28	09/24/2018	ND	8.0000		
Chromium, total	ug/L	MW98-28	03/25/2019	ND	8.0000		
Chromium, total	ug/L	MW98-28	09/03/2019	ND	8.0000		
Chromium, total	ug/L	MW98-28	03/23/2020	ND	8.0000		
Chromium, total	ug/L	MW98-28	09/04/2020	ND	8.0000		
Chromium, total	ug/L	MW98-28	03/09/2021		18.6000		
Chromium, total	ug/L	MW98-28	09/07/2021	ND	8.0000		
Chromium, total	ug/L	MW98-28	03/28/2022		12.7000		
Chromium, total	ug/L	MW98-28	09/14/2022	ND	8.0000		
Chromium, total	ug/L	MW98-28	03/20/2023	ND	8.0000		
Chromium, total	ug/L	MW98-28	09/12/2023	ND	8.0000		
Chromium, total	ug/L	MW98-28	03/12/2024	ND	8.0000		
Chromium, total	ug/L	MW98-28	09/30/2024	ND	8.0000		
Chromium, total	ug/L	MW98-28	03/24/2025	ND	8.0000		
Chromium, total	ug/L	MW98-28	09/09/2025		2.8000		
Cobalt, total	ug/L	MW98-28	09/18/2014		81.5000		*
Cobalt, total	ug/L	MW98-28	11/13/2014	ND	0.8000		
Cobalt, total	ug/L	MW98-28	03/17/2015	ND	0.8000		
Cobalt, total	ug/L	MW98-28	06/29/2015		27.3000		*
Cobalt, total	ug/L	MW98-28	09/11/2015	ND	0.8000		
Cobalt, total	ug/L	MW98-28	03/16/2016	ND	0.8000		

* - Outlier for that well and constituent.

** - ND value replaced with median RL.

*** - ND value replaced with manual RL.

ND = Not detected, Result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Cobalt, total	ug/L	MW98-28	09/08/2016		1.0000		
Cobalt, total	ug/L	MW98-28	03/17/2017	ND	0.8000		
Cobalt, total	ug/L	MW98-28	09/19/2017		4.4000		
Cobalt, total	ug/L	MW98-28	03/08/2018	ND	0.8000		
Cobalt, total	ug/L	MW98-28	09/24/2018		4.8000		
Cobalt, total	ug/L	MW98-28	03/25/2019		0.9000		
Cobalt, total	ug/L	MW98-28	09/03/2019		0.9000		
Cobalt, total	ug/L	MW98-28	03/23/2020		1.6000		
Cobalt, total	ug/L	MW98-28	09/04/2020		0.5000		
Cobalt, total	ug/L	MW98-28	03/09/2021		19.1000		*
Cobalt, total	ug/L	MW98-28	09/07/2021		0.4000		
Cobalt, total	ug/L	MW98-28	03/28/2022		4.2000		
Cobalt, total	ug/L	MW98-28	09/14/2022		4.4000		
Cobalt, total	ug/L	MW98-28	03/20/2023		1.1000		
Cobalt, total	ug/L	MW98-28	09/12/2023		1.6000		
Cobalt, total	ug/L	MW98-28	03/12/2024		0.8000		
Cobalt, total	ug/L	MW98-28	09/30/2024		3.9000		
Cobalt, total	ug/L	MW98-28	03/24/2025		2.1000		
Cobalt, total	ug/L	MW98-28	09/09/2025		1.1000		
Copper, total	ug/L	MW98-28	09/18/2014		97.9000		*
Copper, total	ug/L	MW98-28	11/13/2014	ND	4.0000		
Copper, total	ug/L	MW98-28	03/17/2015	ND	4.0000		
Copper, total	ug/L	MW98-28	06/29/2015		29.9000		*
Copper, total	ug/L	MW98-28	09/11/2015	ND	4.0000		
Copper, total	ug/L	MW98-28	03/16/2016	ND	4.0000		
Copper, total	ug/L	MW98-28	09/08/2016	ND	4.0000		
Copper, total	ug/L	MW98-28	03/17/2017	ND	4.0000		
Copper, total	ug/L	MW98-28	09/19/2017		5.4000		
Copper, total	ug/L	MW98-28	03/08/2018	ND	4.0000		
Copper, total	ug/L	MW98-28	09/24/2018		5.1000		
Copper, total	ug/L	MW98-28	03/25/2019	ND	4.0000		
Copper, total	ug/L	MW98-28	09/03/2019	ND	4.0000		
Copper, total	ug/L	MW98-28	03/23/2020	ND	4.0000		
Copper, total	ug/L	MW98-28	09/04/2020	ND	4.0000		
Copper, total	ug/L	MW98-28	03/09/2021		104.0000		*
Copper, total	ug/L	MW98-28	09/07/2021	ND	4.0000		
Copper, total	ug/L	MW98-28	03/28/2022		7.6000		
Copper, total	ug/L	MW98-28	09/14/2022	ND	4.0000		
Copper, total	ug/L	MW98-28	03/20/2023	ND	4.0000		
Copper, total	ug/L	MW98-28	09/12/2023	ND	4.0000		
Copper, total	ug/L	MW98-28	03/12/2024	ND	4.0000		
Copper, total	ug/L	MW98-28	09/30/2024		4.8000		
Copper, total	ug/L	MW98-28	03/24/2025	ND	4.0000		
Copper, total	ug/L	MW98-28	09/09/2025	ND	5.0000	4.0000	**
Lead, total	ug/L	MW98-28	09/18/2014		38.1000		*
Lead, total	ug/L	MW98-28	11/13/2014	ND	4.0000		
Lead, total	ug/L	MW98-28	03/17/2015	ND	4.0000		
Lead, total	ug/L	MW98-28	06/29/2015		15.6000		*
Lead, total	ug/L	MW98-28	09/11/2015	ND	4.0000		
Lead, total	ug/L	MW98-28	03/16/2016	ND	4.0000		
Lead, total	ug/L	MW98-28	09/08/2016	ND	4.0000		

* - Outlier for that well and constituent.

** - ND value replaced with median RL.

*** - ND value replaced with manual RL.

ND = Not detected, Result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Lead, total	ug/L	MW98-28	03/17/2017	ND	4.0000		
Lead, total	ug/L	MW98-28	09/19/2017	ND	4.0000		
Lead, total	ug/L	MW98-28	03/08/2018	ND	4.0000		
Lead, total	ug/L	MW98-28	09/24/2018	ND	4.0000		
Lead, total	ug/L	MW98-28	03/25/2019	ND	4.0000		
Lead, total	ug/L	MW98-28	09/03/2019	ND	4.0000		
Lead, total	ug/L	MW98-28	03/23/2020	ND	4.0000		
Lead, total	ug/L	MW98-28	09/04/2020	ND	4.0000		
Lead, total	ug/L	MW98-28	03/09/2021		11.9000		
Lead, total	ug/L	MW98-28	09/07/2021	ND	4.0000		
Lead, total	ug/L	MW98-28	03/28/2022	ND	4.0000		
Lead, total	ug/L	MW98-28	09/14/2022	ND	4.0000		
Lead, total	ug/L	MW98-28	03/20/2023	ND	4.0000		
Lead, total	ug/L	MW98-28	09/12/2023	ND	4.0000		
Lead, total	ug/L	MW98-28	03/12/2024	ND	4.0000		
Lead, total	ug/L	MW98-28	09/30/2024	ND	4.0000		
Lead, total	ug/L	MW98-28	03/24/2025	ND	4.0000		*
Lead, total	ug/L	MW98-28	09/09/2025	ND	1.0000		
Nickel, total	ug/L	MW98-28	09/18/2014		105.0000		*
Nickel, total	ug/L	MW98-28	11/13/2014	ND	4.0000		
Nickel, total	ug/L	MW98-28	03/17/2015	ND	4.0000		
Nickel, total	ug/L	MW98-28	06/29/2015		42.0000		*
Nickel, total	ug/L	MW98-28	09/11/2015	ND	4.0000		
Nickel, total	ug/L	MW98-28	03/16/2016	ND	4.0000		
Nickel, total	ug/L	MW98-28	09/08/2016	ND	4.0000		
Nickel, total	ug/L	MW98-28	03/17/2017		4.0000		
Nickel, total	ug/L	MW98-28	09/19/2017		10.2000		
Nickel, total	ug/L	MW98-28	03/08/2018	ND	4.0000		
Nickel, total	ug/L	MW98-28	09/24/2018		7.6000		
Nickel, total	ug/L	MW98-28	03/25/2019	ND	4.0000		
Nickel, total	ug/L	MW98-28	09/03/2019	ND	4.0000		
Nickel, total	ug/L	MW98-28	03/23/2020		6.3000		
Nickel, total	ug/L	MW98-28	09/04/2020	ND	4.0000		
Nickel, total	ug/L	MW98-28	03/09/2021		33.6000		*
Nickel, total	ug/L	MW98-28	09/07/2021	ND	4.0000		
Nickel, total	ug/L	MW98-28	03/28/2022		17.4000		
Nickel, total	ug/L	MW98-28	09/14/2022		4.8000		
Nickel, total	ug/L	MW98-28	03/20/2023		6.6000		
Nickel, total	ug/L	MW98-28	09/12/2023		8.2000		
Nickel, total	ug/L	MW98-28	03/12/2024		5.8000		
Nickel, total	ug/L	MW98-28	09/30/2024		10.1000		
Nickel, total	ug/L	MW98-28	03/24/2025		7.8000		
Nickel, total	ug/L	MW98-28	09/09/2025		8.2000		
Selenium, total	ug/L	MW98-28	09/18/2014		9.0000		
Selenium, total	ug/L	MW98-28	11/13/2014	ND	4.0000		
Selenium, total	ug/L	MW98-28	03/17/2015	ND	4.0000		
Selenium, total	ug/L	MW98-28	06/29/2015	ND	4.0000		
Selenium, total	ug/L	MW98-28	09/11/2015	ND	4.0000		
Selenium, total	ug/L	MW98-28	03/16/2016	ND	4.0000		
Selenium, total	ug/L	MW98-28	09/08/2016	ND	4.0000		
Selenium, total	ug/L	MW98-28	03/17/2017	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	
Selenium, total	ug/L	MW98-28	09/19/2017	ND	4.0000		
Selenium, total	ug/L	MW98-28	03/08/2018	ND	4.0000		
Selenium, total	ug/L	MW98-28	09/24/2018	ND	4.0000		
Selenium, total	ug/L	MW98-28	03/25/2019	ND	4.0000		
Selenium, total	ug/L	MW98-28	09/03/2019	ND	4.0000		
Selenium, total	ug/L	MW98-28	03/23/2020	ND	4.0000		
Selenium, total	ug/L	MW98-28	09/04/2020	ND	4.0000		
Selenium, total	ug/L	MW98-28	03/09/2021	ND	4.0000		
Selenium, total	ug/L	MW98-28	09/07/2021	ND	4.0000		
Selenium, total	ug/L	MW98-28	03/28/2022	ND	4.0000		
Selenium, total	ug/L	MW98-28	09/14/2022	ND	4.0000		
Selenium, total	ug/L	MW98-28	03/20/2023	ND	4.0000		
Selenium, total	ug/L	MW98-28	09/12/2023	ND	4.0000		
Selenium, total	ug/L	MW98-28	03/12/2024	ND	4.0000		
Selenium, total	ug/L	MW98-28	09/30/2024	ND	4.0000		
Selenium, total	ug/L	MW98-28	03/24/2025	ND	4.0000		
Selenium, total	ug/L	MW98-28	09/09/2025	ND	2.0000	4.0000	**
Silver, total	ug/L	MW98-28	09/18/2014	ND	4.0000		
Silver, total	ug/L	MW98-28	11/13/2014	ND	4.0000		
Silver, total	ug/L	MW98-28	03/17/2015	ND	4.0000		
Silver, total	ug/L	MW98-28	06/29/2015	ND	4.0000		
Silver, total	ug/L	MW98-28	09/11/2015	ND	4.0000		
Silver, total	ug/L	MW98-28	03/16/2016	ND	4.0000		
Silver, total	ug/L	MW98-28	09/08/2016	ND	4.0000		
Silver, total	ug/L	MW98-28	03/17/2017	ND	4.0000		
Silver, total	ug/L	MW98-28	09/19/2017	ND	4.0000		
Silver, total	ug/L	MW98-28	03/08/2018	ND	4.0000		
Silver, total	ug/L	MW98-28	09/24/2018	ND	4.0000		
Silver, total	ug/L	MW98-28	03/25/2019	ND	4.0000		
Silver, total	ug/L	MW98-28	09/03/2019	ND	4.0000		
Silver, total	ug/L	MW98-28	03/23/2020	ND	4.0000		
Silver, total	ug/L	MW98-28	09/04/2020	ND	4.0000		
Silver, total	ug/L	MW98-28	03/09/2021	ND	4.0000		
Silver, total	ug/L	MW98-28	09/07/2021	ND	4.0000		
Silver, total	ug/L	MW98-28	03/28/2022	ND	4.0000		
Silver, total	ug/L	MW98-28	09/14/2022	ND	4.0000		
Silver, total	ug/L	MW98-28	03/20/2023	ND	4.0000		
Silver, total	ug/L	MW98-28	09/12/2023	ND	4.0000		
Silver, total	ug/L	MW98-28	03/12/2024	ND	4.0000		
Silver, total	ug/L	MW98-28	09/30/2024	ND	4.0000		
Silver, total	ug/L	MW98-28	03/24/2025	ND	4.0000		
Silver, total	ug/L	MW98-28	09/09/2025	ND	5.0000	4.0000	**
Thallium, total	ug/L	MW98-28	09/18/2014	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW98-28	11/13/2014	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW98-28	03/17/2015	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW98-28	06/29/2015	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW98-28	09/11/2015	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW98-28	03/16/2016	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW98-28	09/08/2016	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW98-28	03/17/2017	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW98-28	09/19/2017	ND	4.0000	2.0000	**

* - Outlier for that well and constituent.

** - ND value replaced with median RL.

*** - ND value replaced with manual RL.

ND = Not detected, Result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Thallium, total	ug/L	MW98-28	03/08/2018	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW98-28	09/24/2018	ND	4.0000	2.0000	**
Thallium, total	ug/L	MW98-28	03/25/2019	ND	2.0000		
Thallium, total	ug/L	MW98-28	09/03/2019	ND	2.0000		
Thallium, total	ug/L	MW98-28	03/23/2020	ND	2.0000		
Thallium, total	ug/L	MW98-28	09/04/2020	ND	2.0000		
Thallium, total	ug/L	MW98-28	03/09/2021	ND	2.0000		
Thallium, total	ug/L	MW98-28	09/07/2021	ND	2.0000		
Thallium, total	ug/L	MW98-28	03/28/2022	ND	2.0000		
Thallium, total	ug/L	MW98-28	09/14/2022	ND	2.0000		
Thallium, total	ug/L	MW98-28	03/20/2023	ND	2.0000		
Thallium, total	ug/L	MW98-28	09/12/2023	ND	2.0000		
Thallium, total	ug/L	MW98-28	03/12/2024	ND	2.0000		
Thallium, total	ug/L	MW98-28	09/30/2024	ND	2.0000		
Thallium, total	ug/L	MW98-28	03/24/2025	ND	2.0000		
Thallium, total	ug/L	MW98-28	09/09/2025	ND	0.5000		*
Vanadium, total	ug/L	MW98-28	09/18/2014		87.6000		*
Vanadium, total	ug/L	MW98-28	11/13/2014	ND	20.0000		
Vanadium, total	ug/L	MW98-28	03/17/2015	ND	20.0000		
Vanadium, total	ug/L	MW98-28	06/29/2015		40.6000		
Vanadium, total	ug/L	MW98-28	09/11/2015	ND	20.0000		
Vanadium, total	ug/L	MW98-28	03/16/2016	ND	20.0000		
Vanadium, total	ug/L	MW98-28	09/08/2016	ND	20.0000		
Vanadium, total	ug/L	MW98-28	03/17/2017	ND	20.0000		
Vanadium, total	ug/L	MW98-28	09/19/2017	ND	20.0000		
Vanadium, total	ug/L	MW98-28	03/08/2018	ND	20.0000		
Vanadium, total	ug/L	MW98-28	09/24/2018	ND	20.0000		
Vanadium, total	ug/L	MW98-28	03/25/2019	ND	20.0000		
Vanadium, total	ug/L	MW98-28	09/03/2019	ND	20.0000		
Vanadium, total	ug/L	MW98-28	03/23/2020	ND	20.0000		
Vanadium, total	ug/L	MW98-28	09/04/2020	ND	20.0000		
Vanadium, total	ug/L	MW98-28	03/09/2021		29.2000		
Vanadium, total	ug/L	MW98-28	09/07/2021	ND	20.0000		
Vanadium, total	ug/L	MW98-28	03/28/2022	ND	20.0000		
Vanadium, total	ug/L	MW98-28	09/14/2022	ND	20.0000		
Vanadium, total	ug/L	MW98-28	03/20/2023	ND	20.0000		
Vanadium, total	ug/L	MW98-28	09/12/2023	ND	20.0000		
Vanadium, total	ug/L	MW98-28	03/12/2024	ND	20.0000		
Vanadium, total	ug/L	MW98-28	09/30/2024	ND	20.0000		
Vanadium, total	ug/L	MW98-28	03/24/2025	ND	20.0000		
Vanadium, total	ug/L	MW98-28	09/09/2025	ND	2.0000		*
Zinc, total	ug/L	MW98-28	09/18/2014		127.0000		*
Zinc, total	ug/L	MW98-28	11/13/2014	ND	20.0000		
Zinc, total	ug/L	MW98-28	03/17/2015	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW98-28	06/29/2015		59.4000		
Zinc, total	ug/L	MW98-28	09/11/2015	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW98-28	03/16/2016	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW98-28	09/08/2016		8.2000		
Zinc, total	ug/L	MW98-28	03/17/2017	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW98-28	09/19/2017		11.1000		
Zinc, total	ug/L	MW98-28	03/08/2018	ND	8.0000	20.0000	**

* - Outlier for that well and constituent.

** - ND value replaced with median RL.

*** - ND value replaced with manual RL.

ND = Not detected, Result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Zinc, total	ug/L	MW98-28	09/24/2018		13.2000		
Zinc, total	ug/L	MW98-28	03/25/2019	ND	8.0000	20.0000	**
Zinc, total	ug/L	MW98-28	09/03/2019		10.6000		
Zinc, total	ug/L	MW98-28	03/23/2020	ND	20.0000		
Zinc, total	ug/L	MW98-28	09/04/2020	ND	20.0000		
Zinc, total	ug/L	MW98-28	03/09/2021		37.6000		
Zinc, total	ug/L	MW98-28	09/07/2021	ND	20.0000		
Zinc, total	ug/L	MW98-28	03/28/2022	ND	20.0000		
Zinc, total	ug/L	MW98-28	09/14/2022	ND	20.0000		
Zinc, total	ug/L	MW98-28	03/20/2023	ND	20.0000		
Zinc, total	ug/L	MW98-28	09/12/2023	ND	20.0000		
Zinc, total	ug/L	MW98-28	03/12/2024	ND	20.0000		
Zinc, total	ug/L	MW98-28	09/30/2024	ND	20.0000		
Zinc, total	ug/L	MW98-28	03/24/2025	ND	20.0000		
Zinc, total	ug/L	MW98-28	09/09/2025		6.3000		

* - 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	GU-4	09/09/2025	ND	1.0000		4.5000
Arsenic, total	ug/L	GU-4	09/09/2025		2.4000		50.6000
Barium, total	ug/L	GU-4	09/09/2025		477.0000		874.0000
Beryllium, total	ug/L	GU-4	09/09/2025	ND	0.5000		4.0000
Cadmium, total	ug/L	GU-4	09/09/2025	ND	0.2000		2.4000
Chromium, total	ug/L	GU-4	09/09/2025	ND	1.0000		18.6000
Cobalt, total	ug/L	GU-4	09/09/2025		0.8000		7.0000
Copper, total	ug/L	GU-4	09/09/2025	ND	5.0000		19.5000
Lead, total	ug/L	GU-4	09/09/2025	ND	1.0000		11.9000
Nickel, total	ug/L	GU-4	09/09/2025	ND	5.0000		17.4000
Selenium, total	ug/L	GU-4	09/09/2025	ND	2.0000		9.0000
Silver, total	ug/L	GU-4	09/09/2025	ND	5.0000		4.0000
Thallium, total	ug/L	GU-4	09/09/2025	ND	0.5000		2.0000
Vanadium, total	ug/L	GU-4	09/09/2025	ND	2.0000		40.6000
Zinc, total	ug/L	GU-4	09/09/2025		34.1000	**	144.0000
Antimony, total	ug/L	MW06-37	09/09/2025	ND	1.0000		4.5000
Arsenic, total	ug/L	MW06-37	09/09/2025	ND	2.0000		50.6000
Barium, total	ug/L	MW06-37	09/09/2025		112.0000		874.0000
Beryllium, total	ug/L	MW06-37	09/09/2025	ND	0.5000		4.0000
Cadmium, total	ug/L	MW06-37	09/09/2025	ND	0.2000		2.4000
Chromium, total	ug/L	MW06-37	09/09/2025	ND	1.0000		18.6000
Cobalt, total	ug/L	MW06-37	09/09/2025	ND	0.5000		7.0000
Copper, total	ug/L	MW06-37	09/09/2025	ND	5.0000		19.5000
Lead, total	ug/L	MW06-37	09/09/2025	ND	1.0000		11.9000
Nickel, total	ug/L	MW06-37	09/09/2025	ND	5.0000		17.4000
Selenium, total	ug/L	MW06-37	09/09/2025		2.5000		9.0000
Silver, total	ug/L	MW06-37	09/09/2025	ND	5.0000		4.0000
Thallium, total	ug/L	MW06-37	09/09/2025	ND	0.5000		2.0000
Vanadium, total	ug/L	MW06-37	09/09/2025	ND	2.0000		40.6000
Zinc, total	ug/L	MW06-37	09/09/2025		5.1000		144.0000
Antimony, total	ug/L	MW06-38	09/09/2025	ND	1.0000		4.5000
Arsenic, total	ug/L	MW06-38	09/09/2025	ND	2.0000		50.6000
Barium, total	ug/L	MW06-38	09/09/2025		203.0000		874.0000
Beryllium, total	ug/L	MW06-38	09/09/2025	ND	0.5000		4.0000
Cadmium, total	ug/L	MW06-38	09/09/2025		0.2000		2.4000
Chromium, total	ug/L	MW06-38	09/09/2025		3.4000		18.6000
Cobalt, total	ug/L	MW06-38	09/09/2025		0.8000		7.0000
Copper, total	ug/L	MW06-38	09/09/2025	ND	5.0000		19.5000
Lead, total	ug/L	MW06-38	09/09/2025	ND	1.0000		11.9000
Nickel, total	ug/L	MW06-38	09/09/2025	ND	5.0000		17.4000
Selenium, total	ug/L	MW06-38	09/09/2025		4.6000		9.0000
Silver, total	ug/L	MW06-38	09/09/2025	ND	5.0000		4.0000
Thallium, total	ug/L	MW06-38	09/09/2025	ND	0.5000		2.0000
Vanadium, total	ug/L	MW06-38	09/09/2025	ND	2.0000		40.6000
Zinc, total	ug/L	MW06-38	09/09/2025		11.1000		144.0000
Antimony, total	ug/L	MW06-39	09/09/2025	ND	1.0000		4.5000
Arsenic, total	ug/L	MW06-39	09/09/2025	ND	2.0000		50.6000
Barium, total	ug/L	MW06-39	09/09/2025		159.0000		874.0000
Beryllium, total	ug/L	MW06-39	09/09/2025	ND	0.5000		4.0000

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** - Current value passed - previous exceedance not verified.

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**** - 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
Cadmium, total	ug/L	MW06-39	09/09/2025		0.2000	2.4000
Chromium, total	ug/L	MW06-39	09/09/2025		1.2000	18.6000
Cobalt, total	ug/L	MW06-39	09/09/2025	ND	0.5000	7.0000
Copper, total	ug/L	MW06-39	09/09/2025	ND	5.0000	19.5000
Lead, total	ug/L	MW06-39	09/09/2025	ND	1.0000	11.9000
Nickel, total	ug/L	MW06-39	09/09/2025	ND	5.0000	17.4000
Selenium, total	ug/L	MW06-39	09/09/2025		2.5000	9.0000
Silver, total	ug/L	MW06-39	09/09/2025	ND	5.0000	4.0000
Thallium, total	ug/L	MW06-39	09/09/2025	ND	0.5000	2.0000
Vanadium, total	ug/L	MW06-39	09/09/2025	ND	2.0000	40.6000
Zinc, total	ug/L	MW06-39	09/09/2025		8.5000	144.0000
Antimony, total	ug/L	MW09-40	09/09/2025		1.9000	4.5000
Arsenic, total	ug/L	MW09-40	09/09/2025		2.0000	50.6000
Barium, total	ug/L	MW09-40	09/09/2025		22.4000	874.0000
Beryllium, total	ug/L	MW09-40	09/09/2025	ND	0.5000	4.0000
Cadmium, total	ug/L	MW09-40	09/09/2025	ND	0.2000	2.4000
Chromium, total	ug/L	MW09-40	09/09/2025		1.1000	18.6000
Cobalt, total	ug/L	MW09-40	09/09/2025		0.9000	7.0000
Copper, total	ug/L	MW09-40	09/09/2025	ND	5.0000	19.5000
Lead, total	ug/L	MW09-40	09/09/2025	ND	1.0000	11.9000
Nickel, total	ug/L	MW09-40	09/09/2025	ND	5.0000	17.4000
Selenium, total	ug/L	MW09-40	09/09/2025		3.6000	9.0000
Silver, total	ug/L	MW09-40	09/09/2025	ND	5.0000	4.0000
Thallium, total	ug/L	MW09-40	09/09/2025	ND	0.5000	2.0000
Vanadium, total	ug/L	MW09-40	09/09/2025	ND	2.0000	40.6000
Zinc, total	ug/L	MW09-40	09/09/2025		9.2000	144.0000
Antimony, total	ug/L	MW21-43	09/09/2025	ND	1.0000	4.5000
Arsenic, total	ug/L	MW21-43	09/09/2025		5.7000	50.6000
Barium, total	ug/L	MW21-43	09/09/2025		200.0000	874.0000
Beryllium, total	ug/L	MW21-43	09/09/2025	ND	0.5000	4.0000
Cadmium, total	ug/L	MW21-43	09/09/2025		0.2000	2.4000
Chromium, total	ug/L	MW21-43	09/09/2025	ND	1.0000	18.6000
Cobalt, total	ug/L	MW21-43	09/09/2025	ND	0.5000	7.0000
Copper, total	ug/L	MW21-43	09/09/2025	ND	5.0000	19.5000
Lead, total	ug/L	MW21-43	09/09/2025	ND	1.0000	11.9000
Nickel, total	ug/L	MW21-43	09/09/2025	ND	5.0000	17.4000
Selenium, total	ug/L	MW21-43	09/09/2025	ND	2.0000	9.0000
Silver, total	ug/L	MW21-43	09/09/2025	ND	5.0000	4.0000
Thallium, total	ug/L	MW21-43	09/09/2025	ND	0.5000	2.0000
Vanadium, total	ug/L	MW21-43	09/09/2025	ND	2.0000	40.6000
Zinc, total	ug/L	MW21-43	09/09/2025		11.7000	144.0000
Antimony, total	ug/L	MW88-3	09/09/2025	ND	1.0000	4.5000
Arsenic, total	ug/L	MW88-3	09/09/2025	ND	2.0000	50.6000
Barium, total	ug/L	MW88-3	09/09/2025		124.0000	874.0000
Beryllium, total	ug/L	MW88-3	09/09/2025	ND	0.5000	4.0000
Cadmium, total	ug/L	MW88-3	09/09/2025		2.4000	2.4000
Chromium, total	ug/L	MW88-3	09/09/2025	ND	1.0000	18.6000
Cobalt, total	ug/L	MW88-3	09/09/2025		0.7000	7.0000
Copper, total	ug/L	MW88-3	09/09/2025	ND	5.0000	19.5000

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** - Current value passed - previous exceedance not verified.

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**** - 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
Lead, total	ug/L	MW88-3	09/09/2025	ND	1.0000	11.9000
Nickel, total	ug/L	MW88-3	09/09/2025	ND	5.0000	17.4000
Selenium, total	ug/L	MW88-3	09/09/2025	ND	2.0000	9.0000
Silver, total	ug/L	MW88-3	09/09/2025	ND	5.0000	4.0000
Thallium, total	ug/L	MW88-3	09/09/2025	ND	0.5000	2.0000
Vanadium, total	ug/L	MW88-3	09/09/2025	ND	2.0000	40.6000
Zinc, total	ug/L	MW88-3	09/09/2025		7.9000	144.0000
Antimony, total	ug/L	MW91-10	09/09/2025	ND	1.0000	4.5000
Arsenic, total	ug/L	MW91-10	09/09/2025	ND	2.0000	50.6000
Barium, total	ug/L	MW91-10	09/09/2025		35.7000	874.0000
Beryllium, total	ug/L	MW91-10	09/09/2025	ND	0.5000	4.0000
Cadmium, total	ug/L	MW91-10	09/09/2025	ND	0.2000	2.4000
Chromium, total	ug/L	MW91-10	09/09/2025	ND	1.0000	18.6000
Cobalt, total	ug/L	MW91-10	09/09/2025		0.8000	7.0000
Copper, total	ug/L	MW91-10	09/09/2025	ND	5.0000	19.5000
Lead, total	ug/L	MW91-10	09/09/2025	ND	1.0000	11.9000
Nickel, total	ug/L	MW91-10	09/09/2025	ND	5.0000	17.4000
Selenium, total	ug/L	MW91-10	09/09/2025		4.9000	9.0000
Silver, total	ug/L	MW91-10	09/09/2025	ND	5.0000	4.0000
Thallium, total	ug/L	MW91-10	09/09/2025	ND	0.5000	2.0000
Vanadium, total	ug/L	MW91-10	09/09/2025	ND	2.0000	40.6000
Zinc, total	ug/L	MW91-10	09/09/2025		15.8000	144.0000
Antimony, total	ug/L	MW94-18	09/09/2025	ND	1.0000	4.5000
Arsenic, total	ug/L	MW94-18	09/09/2025	ND	2.0000	50.6000
Barium, total	ug/L	MW94-18	09/09/2025		31.5000	874.0000
Beryllium, total	ug/L	MW94-18	09/09/2025	ND	0.5000	4.0000
Cadmium, total	ug/L	MW94-18	09/09/2025		1.8000	2.4000
Chromium, total	ug/L	MW94-18	09/09/2025		1.1000	18.6000
Cobalt, total	ug/L	MW94-18	09/09/2025		0.7000	7.0000
Copper, total	ug/L	MW94-18	09/09/2025		9.2000	19.5000
Lead, total	ug/L	MW94-18	09/09/2025	ND	1.0000	11.9000
Nickel, total	ug/L	MW94-18	09/09/2025		15.6000	17.4000
Selenium, total	ug/L	MW94-18	09/09/2025		2.4000	9.0000
Silver, total	ug/L	MW94-18	09/09/2025	ND	5.0000	4.0000
Thallium, total	ug/L	MW94-18	09/09/2025	ND	0.5000	2.0000
Vanadium, total	ug/L	MW94-18	09/09/2025	ND	2.0000	40.6000
Zinc, total	ug/L	MW94-18	09/09/2025		16.7000	144.0000
Antimony, total	ug/L	MW96-21	03/24/2025	ND	2.0000	4.5000
Arsenic, total	ug/L	MW96-21	03/24/2025		21.2000	50.6000
Barium, total	ug/L	MW96-21	03/24/2025		296.0000	874.0000
Beryllium, total	ug/L	MW96-21	03/24/2025	ND	4.0000	4.0000
Cadmium, total	ug/L	MW96-21	03/24/2025	ND	0.8000	2.4000
Chromium, total	ug/L	MW96-21	03/24/2025	ND	8.0000	18.6000
Cobalt, total	ug/L	MW96-21	03/24/2025		0.6000	7.0000
Copper, total	ug/L	MW96-21	03/24/2025	ND	4.0000	19.5000
Lead, total	ug/L	MW96-21	03/24/2025	ND	4.0000	11.9000
Nickel, total	ug/L	MW96-21	03/24/2025		4.6000	17.4000
Selenium, total	ug/L	MW96-21	03/24/2025	ND	4.0000	9.0000
Silver, total	ug/L	MW96-21	03/24/2025	ND	4.0000	4.0000

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** - 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	MW96-21	03/24/2025	ND	2.0000	2.0000
Vanadium, total	ug/L	MW96-21	03/24/2025	ND	20.0000	40.6000
Zinc, total	ug/L	MW96-21	03/24/2025	ND	20.0000	144.0000
Antimony, total	ug/L	MW96-21R	09/09/2025	ND	1.0000	4.5000
Arsenic, total	ug/L	MW96-21R	09/09/2025		12.4000	50.6000
Barium, total	ug/L	MW96-21R	09/09/2025		369.0000	874.0000
Beryllium, total	ug/L	MW96-21R	09/09/2025	ND	0.5000	4.0000
Cadmium, total	ug/L	MW96-21R	09/09/2025	ND	0.2000	2.4000
Chromium, total	ug/L	MW96-21R	09/09/2025		2.4000	18.6000
Cobalt, total	ug/L	MW96-21R	09/09/2025		0.8000	7.0000
Copper, total	ug/L	MW96-21R	09/09/2025		6.5000	19.5000
Lead, total	ug/L	MW96-21R	09/09/2025	ND	1.0000	11.9000
Nickel, total	ug/L	MW96-21R	09/09/2025	ND	5.0000	17.4000
Selenium, total	ug/L	MW96-21R	09/09/2025	ND	2.0000	9.0000
Silver, total	ug/L	MW96-21R	09/09/2025	ND	5.0000	4.0000
Thallium, total	ug/L	MW96-21R	09/09/2025	ND	0.5000	2.0000
Vanadium, total	ug/L	MW96-21R	09/09/2025	ND	2.0000	40.6000
Zinc, total	ug/L	MW96-21R	09/09/2025		11.7000	144.0000
Antimony, total	ug/L	MW96-23	09/09/2025	ND	1.0000	4.5000
Arsenic, total	ug/L	MW96-23	09/09/2025		39.2000	50.6000
Barium, total	ug/L	MW96-23	09/09/2025		704.0000	874.0000
Beryllium, total	ug/L	MW96-23	09/09/2025	ND	0.5000	4.0000
Cadmium, total	ug/L	MW96-23	09/09/2025	ND	0.2000	2.4000
Chromium, total	ug/L	MW96-23	09/09/2025		1.0000	18.6000
Cobalt, total	ug/L	MW96-23	09/09/2025	ND	0.5000	7.0000
Copper, total	ug/L	MW96-23	09/09/2025	ND	5.0000	19.5000
Lead, total	ug/L	MW96-23	09/09/2025	ND	1.0000	11.9000
Nickel, total	ug/L	MW96-23	09/09/2025	ND	5.0000	17.4000
Selenium, total	ug/L	MW96-23	09/09/2025	ND	2.0000	9.0000
Silver, total	ug/L	MW96-23	09/09/2025	ND	5.0000	4.0000
Thallium, total	ug/L	MW96-23	09/09/2025	ND	0.5000	2.0000
Vanadium, total	ug/L	MW96-23	09/09/2025	ND	2.0000	40.6000
Zinc, total	ug/L	MW96-23	09/09/2025		10.2000	144.0000
Antimony, total	ug/L	MW96-24	09/09/2025	ND	1.0000	4.5000
Arsenic, total	ug/L	MW96-24	09/09/2025	ND	2.0000	50.6000
Barium, total	ug/L	MW96-24	09/09/2025		559.0000	874.0000
Beryllium, total	ug/L	MW96-24	09/09/2025	ND	0.5000	4.0000
Cadmium, total	ug/L	MW96-24	09/09/2025		0.2000	2.4000
Chromium, total	ug/L	MW96-24	09/09/2025	ND	1.0000	18.6000
Cobalt, total	ug/L	MW96-24	09/09/2025		0.6000	7.0000
Copper, total	ug/L	MW96-24	09/09/2025	ND	5.0000	19.5000
Lead, total	ug/L	MW96-24	09/09/2025	ND	1.0000	11.9000
Nickel, total	ug/L	MW96-24	09/09/2025	ND	5.0000	17.4000
Selenium, total	ug/L	MW96-24	09/09/2025	ND	2.0000	9.0000
Silver, total	ug/L	MW96-24	09/09/2025	ND	5.0000	4.0000
Thallium, total	ug/L	MW96-24	09/09/2025	ND	0.5000	2.0000
Vanadium, total	ug/L	MW96-24	09/09/2025	ND	2.0000	40.6000
Zinc, total	ug/L	MW96-24	09/09/2025		10.7000	144.0000
Antimony, total	ug/L	MW98-25	09/09/2025	ND	1.0000	4.5000

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*** - 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
Arsenic, total	ug/L	MW98-25	09/09/2025		7.6000		50.6000
Barium, total	ug/L	MW98-25	09/09/2025		87.7000		874.0000
Beryllium, total	ug/L	MW98-25	09/09/2025	ND	0.5000		4.0000
Cadmium, total	ug/L	MW98-25	09/09/2025	ND	0.2000		2.4000
Chromium, total	ug/L	MW98-25	09/09/2025		1.6000		18.6000
Cobalt, total	ug/L	MW98-25	09/09/2025		12.3000	***	7.0000
Copper, total	ug/L	MW98-25	09/09/2025	ND	5.0000		19.5000
Lead, total	ug/L	MW98-25	09/09/2025	ND	1.0000		11.9000
Nickel, total	ug/L	MW98-25	09/09/2025		27.6000	***	17.4000
Selenium, total	ug/L	MW98-25	09/09/2025	ND	2.0000		9.0000
Silver, total	ug/L	MW98-25	09/09/2025	ND	5.0000		4.0000
Thallium, total	ug/L	MW98-25	09/09/2025	ND	0.5000		2.0000
Vanadium, total	ug/L	MW98-25	09/09/2025	ND	2.0000		40.6000
Zinc, total	ug/L	MW98-25	09/09/2025	ND	5.0000		144.0000

* - 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	4	120	0.033	6	438	0.014
Arsenic, total	34	119	0.286	148	441	0.336
Barium, total	120	120	1.000	438	439	0.998
Beryllium, total	0	114	0.000	1	440	0.002
Cadmium, total	12	112	0.107	64	442	0.145
Chromium, total	6	114	0.053	29	438	0.066
Cobalt, total	54	116	0.466	117	441	0.265
Copper, total	12	114	0.105	93	440	0.211
Lead, total	3	109	0.028	44	441	0.100
Nickel, total	43	117	0.368	190	441	0.431
Selenium, total	5	120	0.042	27	440	0.061
Silver, total	0	120	0.000	0	438	0.000
Thallium, total	0	114	0.000	2	438	0.005
Vanadium, total	2	113	0.018	30	440	0.068
Zinc, total	25	119	0.210	148	441	0.336

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	4	120	0.033	1.635	1.142					2.326	normal	nonpar
Arsenic, total	34	119	0.286	0.867	0.617					2.326	normal	nonpar
Barium, total	120	120	1.000	6.233	3.201					2.326	non-norm	nonpar
Beryllium, total	0	114	0.000									nonpar
Cadmium, total	12	112	0.107	0.536	1.402					2.326	normal	nonpar
Chromium, total	6	114	0.053	0.592	0.338					2.326	normal	nonpar
Cobalt, total	54	116	0.466	5.044	0.258					2.326	lognor	nonpar
Copper, total	12	114	0.105	0.675	0.612					2.326	normal	nonpar
Lead, total	3	109	0.028									nonpar
Nickel, total	43	117	0.368	1.280	0.365					2.326	normal	nonpar
Selenium, total	5	120	0.042	1.125	0.996					2.326	normal	nonpar
Silver, total	0	120	0.000									nonpar
Thallium, total	0	114	0.000									nonpar
Vanadium, total	2	113	0.018									nonpar
Zinc, total	25	119	0.210	2.688	0.325					2.326	lognor	nonpar

* - Distribution override for that constituent.

Fit to distribution is confirmed if $G \leq$ 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	4	120					4.5000	nonpar		0.99
Arsenic, total	ug/L	34	119					50.6000	nonpar		0.99
Barium, total	ug/L	120	120					874.0000	nonpar		0.99
Beryllium, total	ug/L	0	114					4.0000	nonpar	***	0.99
Cadmium, total	ug/L	12	112					2.4000	nonpar		0.99
Chromium, total	ug/L	6	114					18.6000	nonpar		0.99
Cobalt, total	ug/L	54	116					7.0000	nonpar		0.99
Copper, total	ug/L	12	114					19.5000	nonpar		0.99
Lead, total	ug/L	3	109					11.9000	nonpar		0.99
Nickel, total	ug/L	43	117					17.4000	nonpar		0.99
Selenium, total	ug/L	5	120					9.0000	nonpar		0.99
Silver, total	ug/L	0	120					4.0000	nonpar	***	0.99
Thallium, total	ug/L	0	114					2.0000	nonpar	***	0.99
Vanadium, total	ug/L	2	113					40.6000	nonpar		0.99
Zinc, total	ug/L	25	119					144.0000	nonpar		0.99

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

* - Insufficient Data.

** - Calculated limit raised to Manual Reporting Limit.

*** - Nonparametric limit based on ND value.

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

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

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

Table 6

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

Constituent	Units	Well	Date	Result	ND Qualifier	Date Range	N	Critical Value
Beryllium, total	ug/L	MW02-15A	09/09/2025	0.5000	< 0.5000	09/18/2014-09/09/2025	25	0.4893
Cadmium, total	ug/L	MW02-15A	03/16/2016	3.6000		09/18/2014-09/09/2025	25	0.4893
Copper, total	ug/L	MW02-15A	03/09/2021	26.0000		09/18/2014-09/09/2025	25	0.4893
Lead, total	ug/L	MW02-15A	09/09/2025	1.0000	< 1.0000	09/18/2014-09/09/2025	24	0.4969
Thallium, total	ug/L	MW02-15A	09/09/2025	0.5000	< 0.5000	09/18/2014-09/09/2025	25	0.4893
Vanadium, total	ug/L	MW02-15A	09/09/2025	2.0000	< 2.0000	09/18/2014-09/09/2025	25	0.4893
Beryllium, total	ug/L	MW02-30A	09/09/2025	0.5000	< 0.5000	03/16/2016-09/09/2025	21	0.5263
Cadmium, total	ug/L	MW02-30A	09/09/2025	0.2000	< 0.2000	03/16/2016-09/09/2025	21	0.5263
Chromium, total	ug/L	MW02-30A	09/09/2025	1.0000	< 1.0000	03/16/2016-09/09/2025	21	0.5263
Lead, total	ug/L	MW02-30A	09/14/2022	14.8000		03/16/2016-09/09/2025	21	0.5381
Lead, total	ug/L	MW02-30A	03/20/2023	22.3000		03/16/2016-09/09/2025	21	0.5381
Lead, total	ug/L	MW02-30A	09/09/2025	1.0000	< 1.0000	03/16/2016-09/09/2025	21	0.5263
Thallium, total	ug/L	MW02-30A	09/09/2025	0.5000	< 0.5000	03/16/2016-09/09/2025	21	0.5263
Vanadium, total	ug/L	MW02-30A	09/09/2025	2.0000	< 2.0000	03/16/2016-09/09/2025	21	0.5263
Beryllium, total	ug/L	MW88-2	09/09/2025	0.5000	< 0.5000	09/18/2014-09/09/2025	24	0.4969
Cadmium, total	ug/L	MW88-2	03/16/2016	4.6000		09/18/2014-09/09/2025	24	0.5065
Cadmium, total	ug/L	MW88-2	09/19/2017	2.5000		09/18/2014-09/09/2025	24	0.5065
Cadmium, total	ug/L	MW88-2	09/09/2025	0.2000		09/18/2014-09/09/2025	24	0.4969
Chromium, total	ug/L	MW88-2	09/09/2025	2.2000		09/18/2014-09/09/2025	24	0.4969
Copper, total	ug/L	MW88-2	09/09/2025	14.5000		09/18/2014-09/09/2025	23	0.5065
Lead, total	ug/L	MW88-2	09/09/2025	1.0000	< 1.0000	09/18/2014-09/09/2025	24	0.4969
Thallium, total	ug/L	MW88-2	09/09/2025	0.5000	< 0.5000	09/18/2014-09/09/2025	24	0.4969
Vanadium, total	ug/L	MW88-2	09/09/2025	2.0000	< 2.0000	09/18/2014-09/09/2025	24	0.4969
Beryllium, total	ug/L	MW91-8	03/24/2025	0.5000	< 0.5000	09/19/2014-09/09/2025	25	0.4969
Beryllium, total	ug/L	MW91-8	09/09/2025	0.5000	< 0.5000	09/19/2014-09/09/2025	25	0.4969
Cadmium, total	ug/L	MW91-8	09/09/2025	0.2000		09/19/2014-09/09/2025	25	0.4893
Chromium, total	ug/L	MW91-8	03/24/2025	1.6000		09/19/2014-09/09/2025	25	0.4969
Chromium, total	ug/L	MW91-8	09/09/2025	1.0000	< 1.0000	09/19/2014-09/09/2025	25	0.4969
Cobalt, total	ug/L	MW91-8	09/14/2022	2.7000		09/19/2014-09/09/2025	25	0.4893
Lead, total	ug/L	MW91-8	03/24/2025	1.0000	< 1.0000	09/19/2014-09/09/2025	25	0.4969
Lead, total	ug/L	MW91-8	09/09/2025	1.0000	< 1.0000	09/19/2014-09/09/2025	25	0.4969
Thallium, total	ug/L	MW91-8	03/24/2025	0.5000	< 0.5000	09/19/2014-09/09/2025	25	0.4969
Thallium, total	ug/L	MW91-8	09/09/2025	0.5000	< 0.5000	09/19/2014-09/09/2025	25	0.4969
Vanadium, total	ug/L	MW91-8	03/24/2025	2.0000	< 2.0000	09/19/2014-09/09/2025	25	0.4969
Vanadium, total	ug/L	MW91-8	09/09/2025	2.0000	< 2.0000	09/19/2014-09/09/2025	25	0.4969
Arsenic, total	ug/L	MW98-28	09/18/2014	18.9000		09/18/2014-09/09/2025	25	0.4893
Beryllium, total	ug/L	MW98-28	09/09/2025	0.5000	< 0.5000	09/18/2014-09/09/2025	25	0.4893
Cadmium, total	ug/L	MW98-28	09/09/2025	0.2000	< 0.2000	09/18/2014-09/09/2025	24	0.4969
Chromium, total	ug/L	MW98-28	09/18/2014	43.4000		09/18/2014-09/09/2025	25	0.4969
Chromium, total	ug/L	MW98-28	06/29/2015	24.9000		09/18/2014-09/09/2025	25	0.4969
Copper, total	ug/L	MW98-28	06/29/2015	29.9000		09/18/2014-09/09/2025	23	0.5065
Lead, total	ug/L	MW98-28	06/29/2015	15.6000		09/18/2014-09/09/2025	24	0.4969
Lead, total	ug/L	MW98-28	09/09/2025	1.0000	< 1.0000	09/18/2014-09/09/2025	24	0.4969
Nickel, total	ug/L	MW98-28	03/09/2021	33.6000		09/18/2014-09/09/2025	23	0.5065
Thallium, total	ug/L	MW98-28	09/09/2025	0.5000	< 0.5000	09/18/2014-09/09/2025	25	0.4893
Vanadium, total	ug/L	MW98-28	09/09/2025	2.0000	< 2.0000	09/18/2014-09/09/2025	24	0.4969

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
Zinc, total	ug/L	GU-4	08/30/2021	ND	131.0000	144.0000
Zinc, total	ug/L	GU-4	03/28/2022		1140.0000 *	144.0000
Zinc, total	ug/L	GU-4	06/24/2022		61.3000	144.0000
Zinc, total	ug/L	GU-4	09/14/2022		20.0000	144.0000
Zinc, total	ug/L	GU-4	03/20/2023		131.0000	144.0000
Zinc, total	ug/L	GU-4	09/12/2023		47.2000	144.0000
Zinc, total	ug/L	GU-4	03/12/2024		70.7000	144.0000
Zinc, total	ug/L	GU-4	11/25/2024		262.0000 *	144.0000
Zinc, total	ug/L	GU-4	03/24/2025		243.0000 *	144.0000
Zinc, total	ug/L	GU-4	09/09/2025		34.1000	144.0000
Cobalt, total	ug/L	MW98-25	03/17/2008		46.0000 *	7.0000
Cobalt, total	ug/L	MW98-25	06/04/2008		42.0000 *	7.0000
Cobalt, total	ug/L	MW98-25	07/23/2008		51.0000 *	7.0000
Cobalt, total	ug/L	MW98-25	09/12/2008		24.2000 *	7.0000
Cobalt, total	ug/L	MW98-25	12/11/2008		29.3000 *	7.0000
Cobalt, total	ug/L	MW98-25	03/04/2009		33.9000 *	7.0000
Cobalt, total	ug/L	MW98-25	09/20/2009		23.7000 *	7.0000
Cobalt, total	ug/L	MW98-25	03/26/2010		33.6000 *	7.0000
Cobalt, total	ug/L	MW98-25	09/24/2010		25.4000 *	7.0000
Cobalt, total	ug/L	MW98-25	03/30/2011		35.4000 *	7.0000
Cobalt, total	ug/L	MW98-25	09/14/2011		30.0000 *	7.0000
Cobalt, total	ug/L	MW98-25	03/07/2012		33.1000 *	7.0000
Cobalt, total	ug/L	MW98-25	09/12/2012		8.9000 *	7.0000
Cobalt, total	ug/L	MW98-25	03/20/2013		12.3000 *	7.0000
Cobalt, total	ug/L	MW98-25	09/27/2013		10.0000 *	7.0000
Cobalt, total	ug/L	MW98-25	03/13/2014		14.5000 *	7.0000
Cobalt, total	ug/L	MW98-25	09/18/2014		19.0000 *	7.0000
Cobalt, total	ug/L	MW98-25	03/17/2015		5.4000 *	7.0000
Cobalt, total	ug/L	MW98-25	09/11/2015		13.0000 *	7.0000
Cobalt, total	ug/L	MW98-25	03/16/2016		4.7000 *	7.0000
Cobalt, total	ug/L	MW98-25	09/08/2016		29.1000 *	7.0000
Cobalt, total	ug/L	MW98-25	03/18/2017		14.6000 *	7.0000
Cobalt, total	ug/L	MW98-25	09/19/2017		6.2000 *	7.0000
Cobalt, total	ug/L	MW98-25	03/08/2018		10.3000 *	7.0000
Cobalt, total	ug/L	MW98-25	09/24/2018		11.6000 *	7.0000
Cobalt, total	ug/L	MW98-25	03/25/2019		13.9000 *	7.0000
Cobalt, total	ug/L	MW98-25	09/03/2019		8.5000 *	7.0000
Cobalt, total	ug/L	MW98-25	03/23/2020		22.2000 *	7.0000
Cobalt, total	ug/L	MW98-25	09/04/2020		7.6000 *	7.0000
Cobalt, total	ug/L	MW98-25	03/09/2021		11.7000 *	7.0000
Cobalt, total	ug/L	MW98-25	09/07/2021		12.8000 *	7.0000
Cobalt, total	ug/L	MW98-25	03/28/2022		10.9000 *	7.0000
Cobalt, total	ug/L	MW98-25	09/14/2022		19.4000 *	7.0000
Cobalt, total	ug/L	MW98-25	03/20/2023		11.2000 *	7.0000
Cobalt, total	ug/L	MW98-25	09/12/2023		15.2000 *	7.0000
Cobalt, total	ug/L	MW98-25	03/12/2024		10.7000 *	7.0000
Cobalt, total	ug/L	MW98-25	09/30/2024		11.0000 *	7.0000
Cobalt, total	ug/L	MW98-25	03/24/2025		8.7000 *	7.0000

* - 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
Cobalt, total	ug/L	MW98-25	09/09/2025		12.3000	*	7.0000
Nickel, total	ug/L	MW98-25	03/17/2008		111.0000	*	17.4000
Nickel, total	ug/L	MW98-25	06/04/2008		86.0000	*	17.4000
Nickel, total	ug/L	MW98-25	07/23/2008		110.0000	*	17.4000
Nickel, total	ug/L	MW98-25	09/12/2008		81.1000	*	17.4000
Nickel, total	ug/L	MW98-25	12/11/2008		60.7000	*	17.4000
Nickel, total	ug/L	MW98-25	03/04/2009		69.6000	*	17.4000
Nickel, total	ug/L	MW98-25	09/20/2009		53.1000	*	17.4000
Nickel, total	ug/L	MW98-25	03/26/2010		84.0000	*	17.4000
Nickel, total	ug/L	MW98-25	09/24/2010		56.5000	*	17.4000
Nickel, total	ug/L	MW98-25	03/30/2011		85.8000	*	17.4000
Nickel, total	ug/L	MW98-25	09/14/2011		70.5000	*	17.4000
Nickel, total	ug/L	MW98-25	03/07/2012		75.7000	*	17.4000
Nickel, total	ug/L	MW98-25	09/12/2012		46.5000	*	17.4000
Nickel, total	ug/L	MW98-25	03/20/2013		41.5000	*	17.4000
Nickel, total	ug/L	MW98-25	09/27/2013		55.2000	*	17.4000
Nickel, total	ug/L	MW98-25	03/13/2014		51.0000	*	17.4000
Nickel, total	ug/L	MW98-25	09/18/2014		48.1000	*	17.4000
Nickel, total	ug/L	MW98-25	03/17/2015		41.6000	*	17.4000
Nickel, total	ug/L	MW98-25	09/11/2015		36.2000	*	17.4000
Nickel, total	ug/L	MW98-25	03/16/2016		37.9000	*	17.4000
Nickel, total	ug/L	MW98-25	09/08/2016		81.7000	*	17.4000
Nickel, total	ug/L	MW98-25	03/18/2017		34.3000	*	17.4000
Nickel, total	ug/L	MW98-25	09/19/2017		17.0000	*	17.4000
Nickel, total	ug/L	MW98-25	03/08/2018		20.1000	*	17.4000
Nickel, total	ug/L	MW98-25	09/24/2018		24.6000	*	17.4000
Nickel, total	ug/L	MW98-25	03/25/2019		21.2000	*	17.4000
Nickel, total	ug/L	MW98-25	09/03/2019		9.0000	*	17.4000
Nickel, total	ug/L	MW98-25	03/23/2020		29.9000	*	17.4000
Nickel, total	ug/L	MW98-25	09/04/2020		10.5000	*	17.4000
Nickel, total	ug/L	MW98-25	03/09/2021		16.7000	*	17.4000
Nickel, total	ug/L	MW98-25	09/07/2021		20.4000	*	17.4000
Nickel, total	ug/L	MW98-25	03/28/2022		21.9000	*	17.4000
Nickel, total	ug/L	MW98-25	09/14/2022		24.3000	*	17.4000
Nickel, total	ug/L	MW98-25	03/20/2023		23.4000	*	17.4000
Nickel, total	ug/L	MW98-25	09/12/2023		35.7000	*	17.4000
Nickel, total	ug/L	MW98-25	03/12/2024		23.6000	*	17.4000
Nickel, total	ug/L	MW98-25	09/30/2024		26.5000	*	17.4000
Nickel, total	ug/L	MW98-25	03/24/2025		19.2000	*	17.4000
Nickel, total	ug/L	MW98-25	09/09/2025		27.6000	*	17.4000

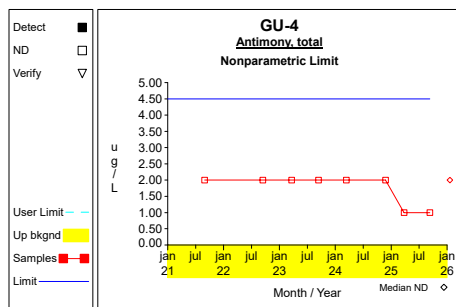
* - Significantly increased over background.

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

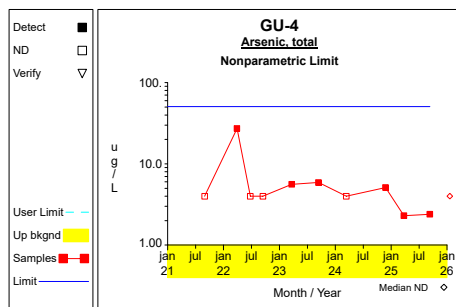
*** - Manual exclusion.

ND = Not Detected, Result = detection limit.

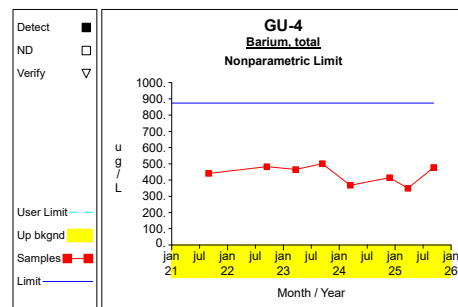
Up vs. Down Prediction Limits



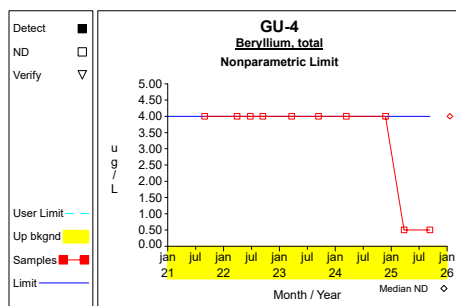
Graph 1



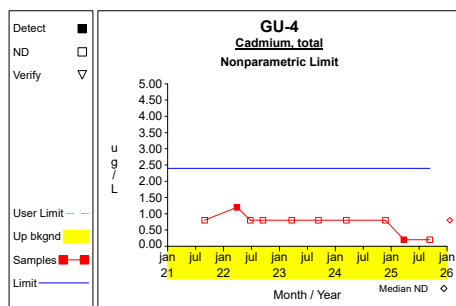
Graph 2



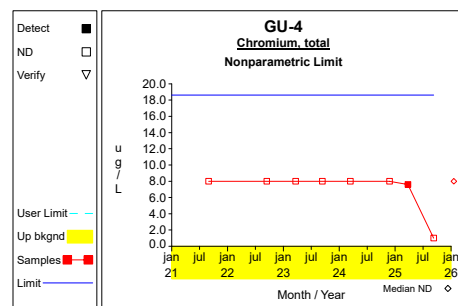
Graph 3



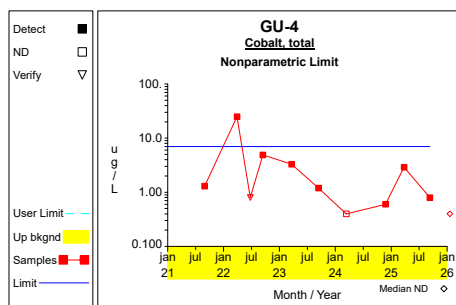
Graph 4



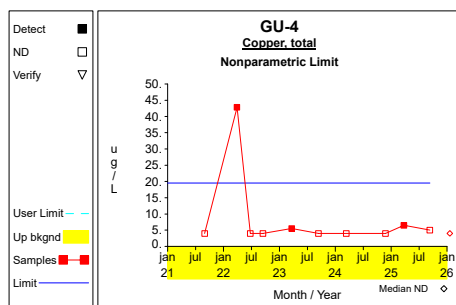
Graph 5



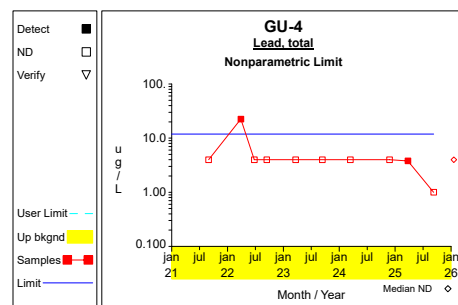
Graph 6



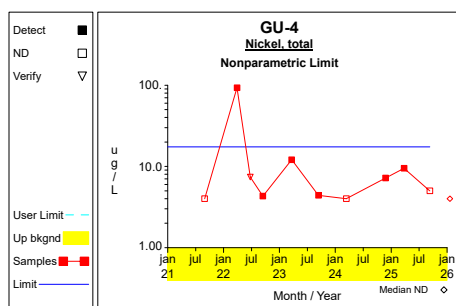
Graph 7



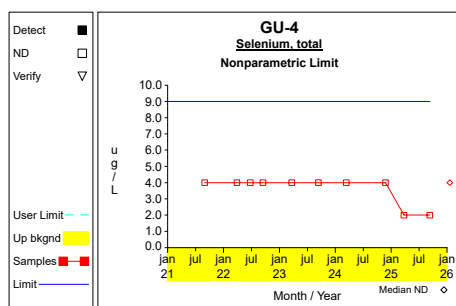
Graph 8



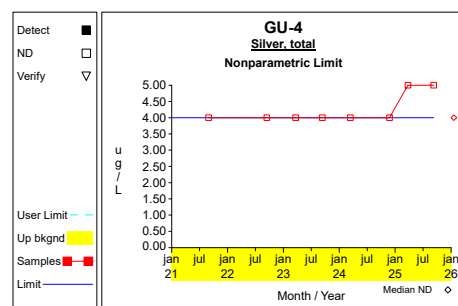
Graph 9



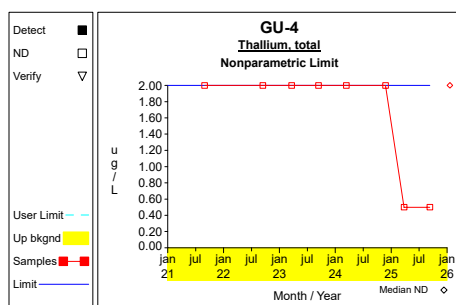
Graph 10



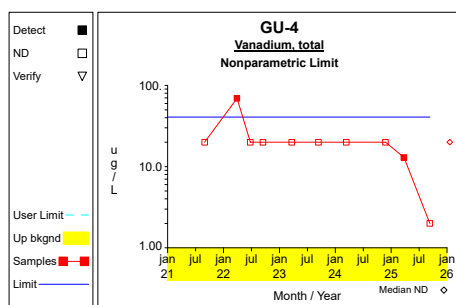
Graph 11



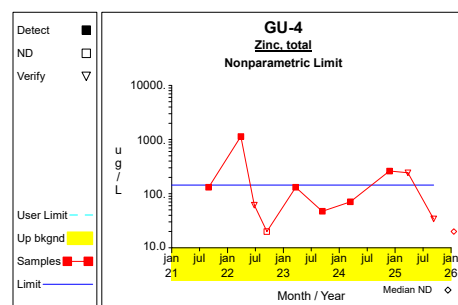
Graph 12



Graph 13

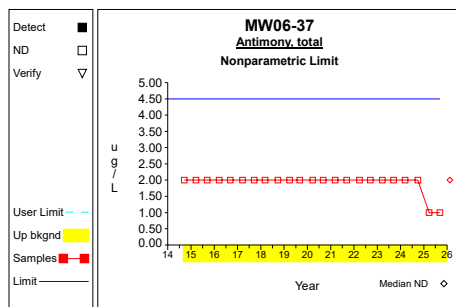


Graph 14

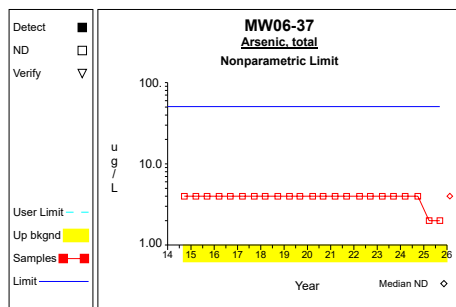


Graph 15

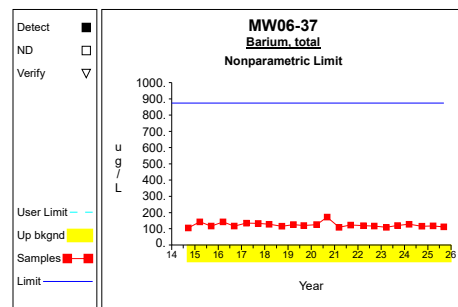
Up vs. Down Prediction Limits



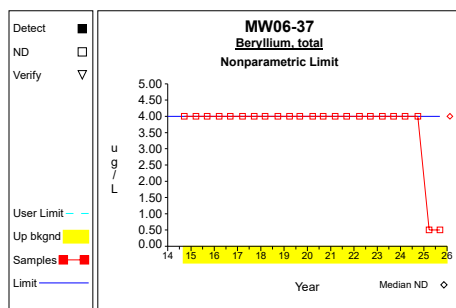
Graph 16



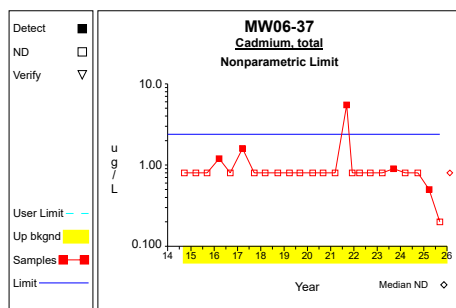
Graph 17



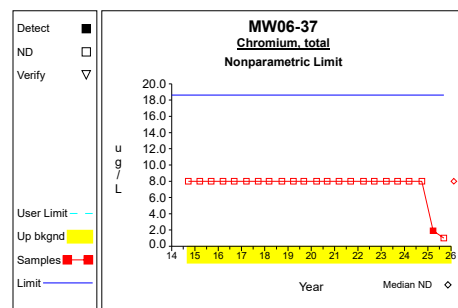
Graph 18



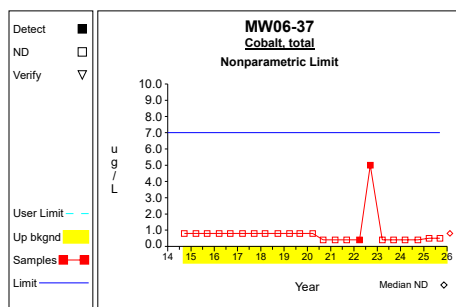
Graph 19



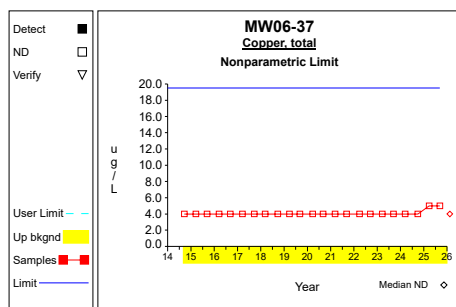
Graph 20



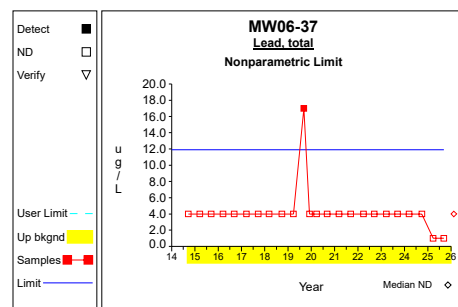
Graph 21



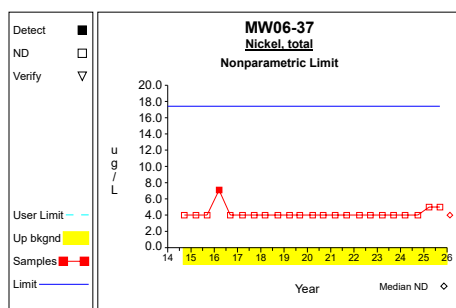
Graph 22



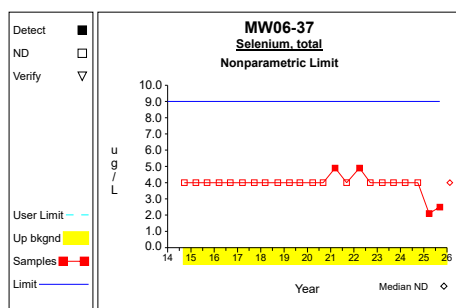
Graph 23



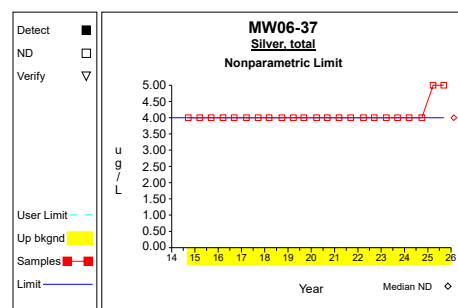
Graph 24



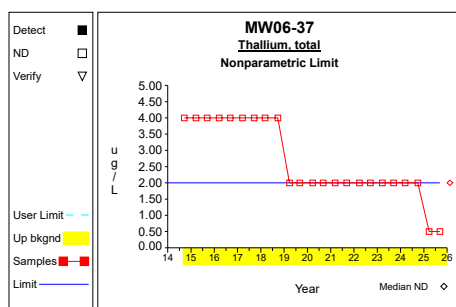
Graph 25



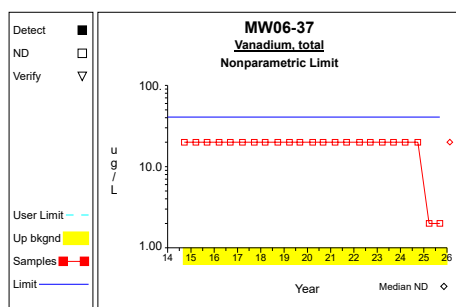
Graph 26



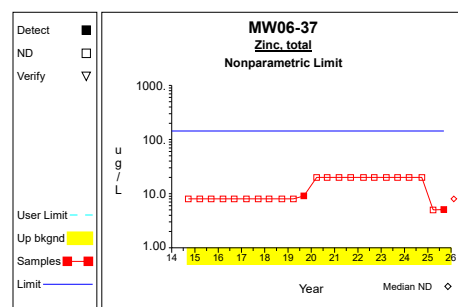
Graph 27



Graph 28

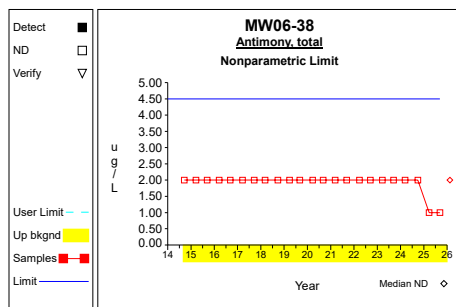


Graph 29

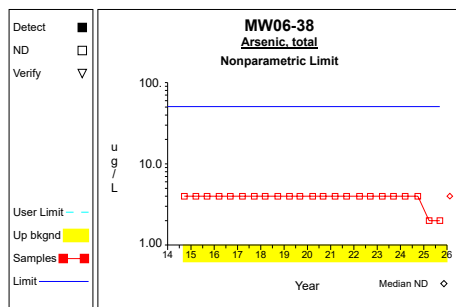


Graph 30

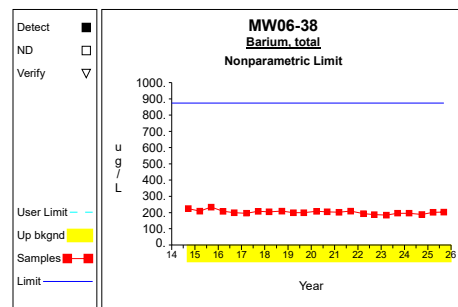
Up vs. Down Prediction Limits



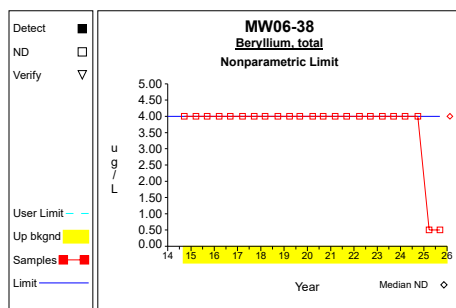
Graph 31



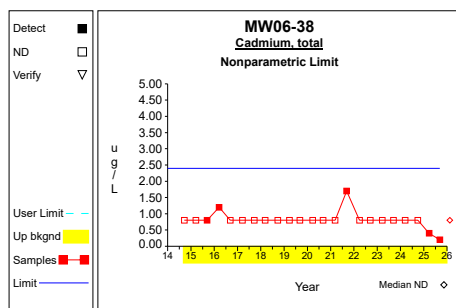
Graph 32



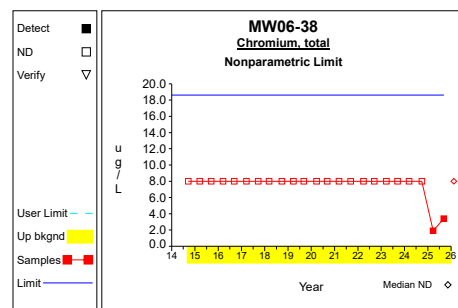
Graph 33



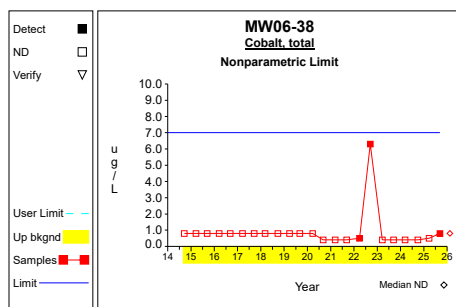
Graph 34



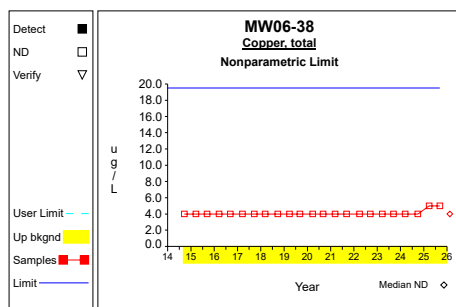
Graph 35



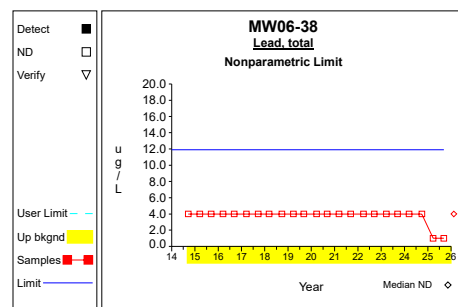
Graph 36



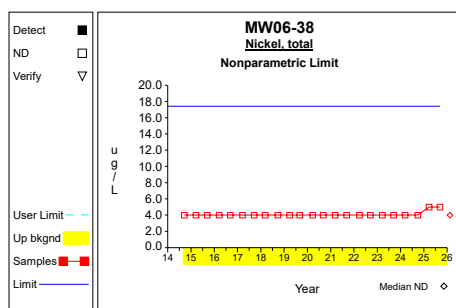
Graph 37



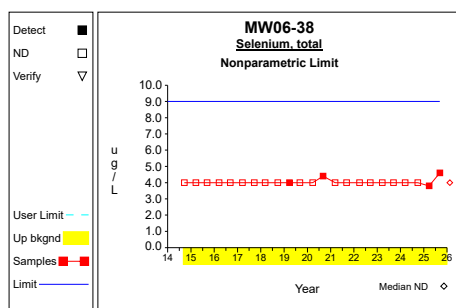
Graph 38



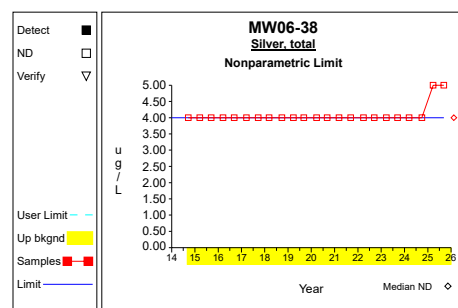
Graph 39



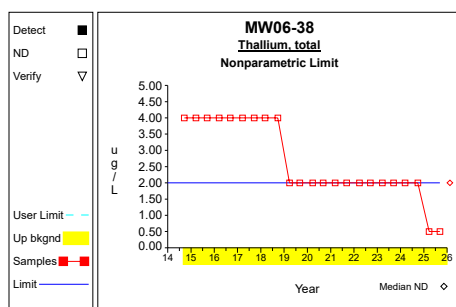
Graph 40



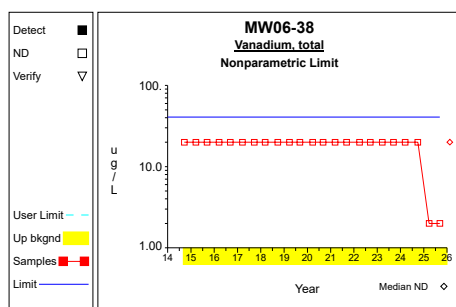
Graph 41



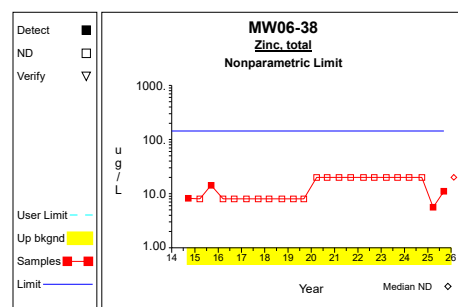
Graph 42



Graph 43

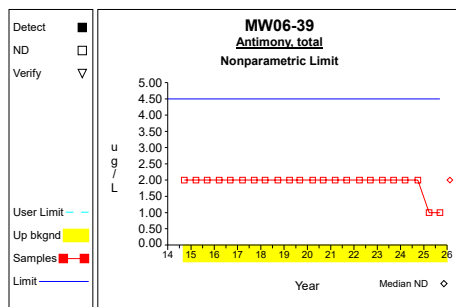


Graph 44

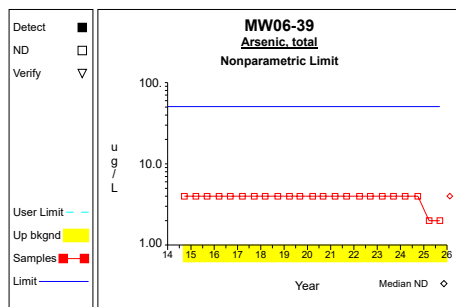


Graph 45

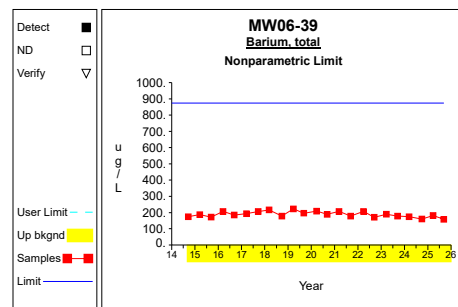
Up vs. Down Prediction Limits



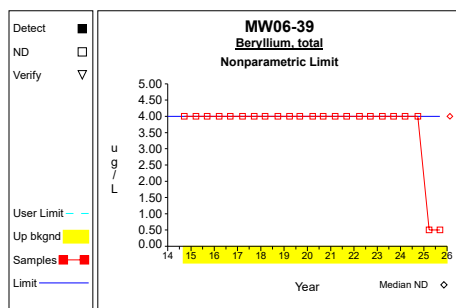
Graph 46



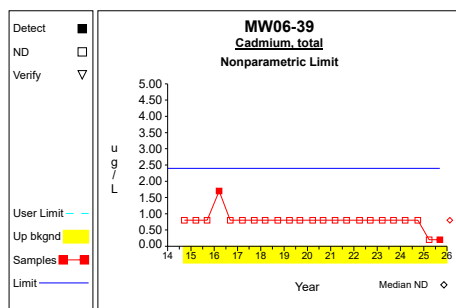
Graph 47



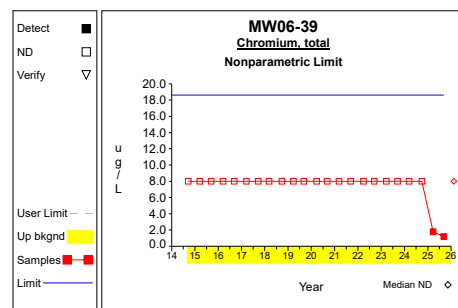
Graph 48



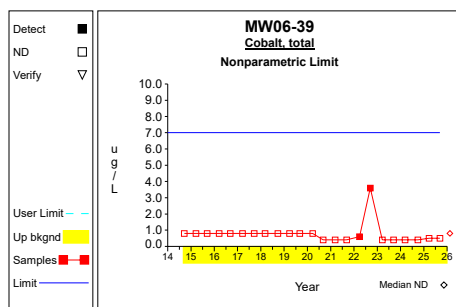
Graph 49



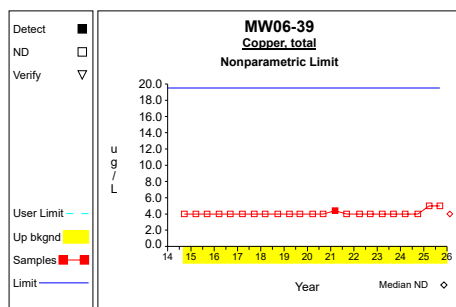
Graph 50



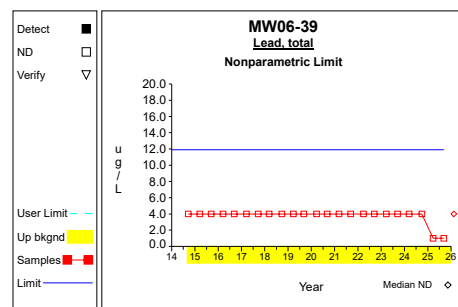
Graph 51



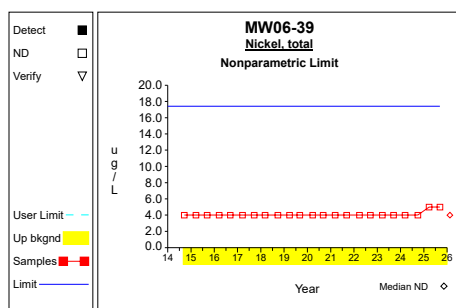
Graph 52



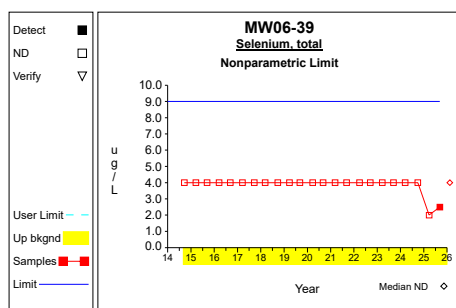
Graph 53



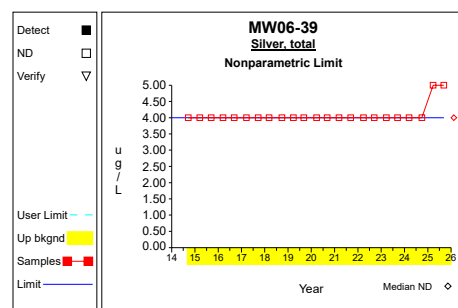
Graph 54



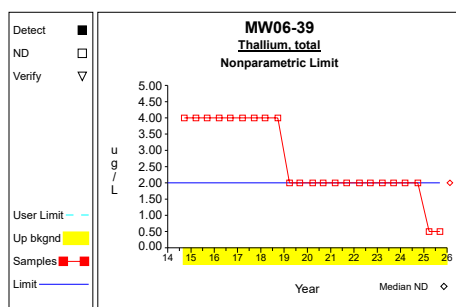
Graph 55



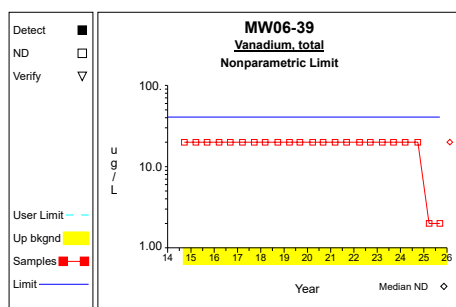
Graph 56



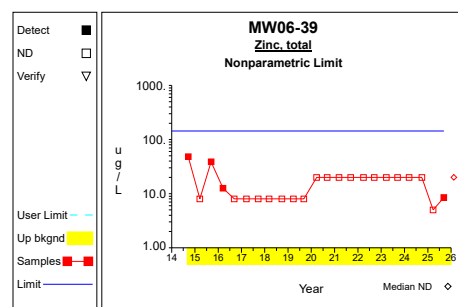
Graph 57



Graph 58

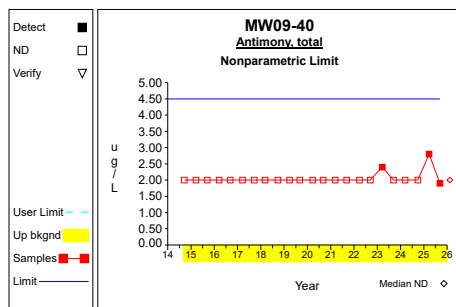


Graph 59

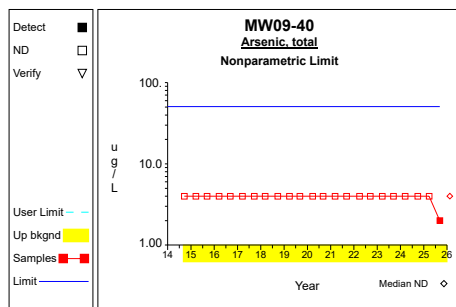


Graph 60

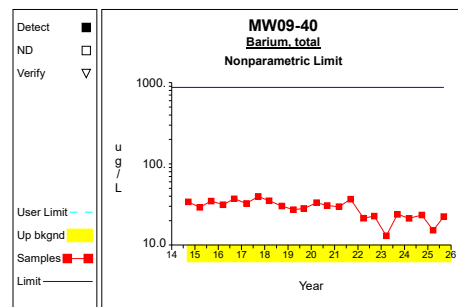
Up vs. Down Prediction Limits



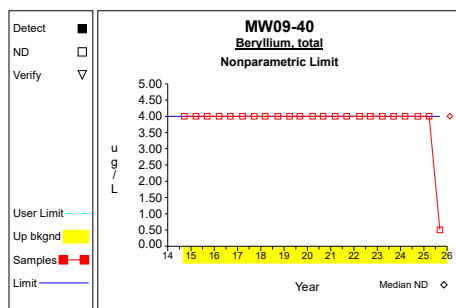
Graph 61



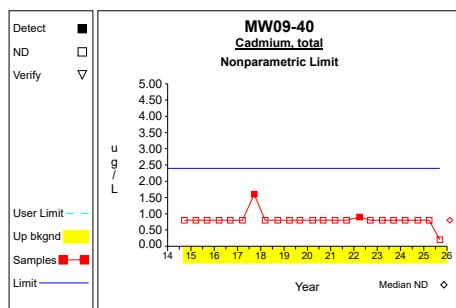
Graph 62



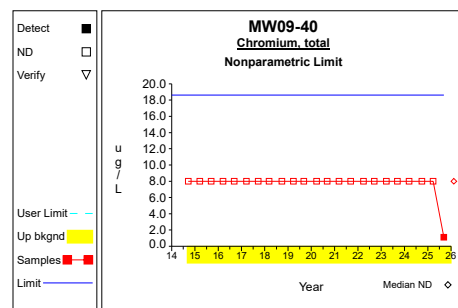
Graph 63



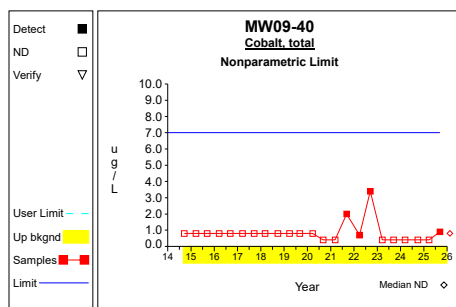
Graph 64



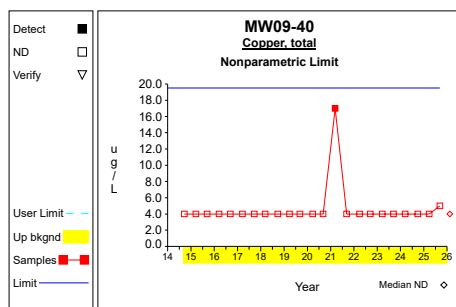
Graph 65



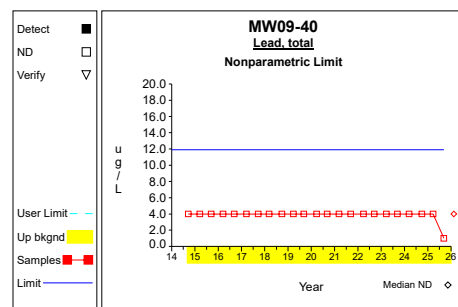
Graph 66



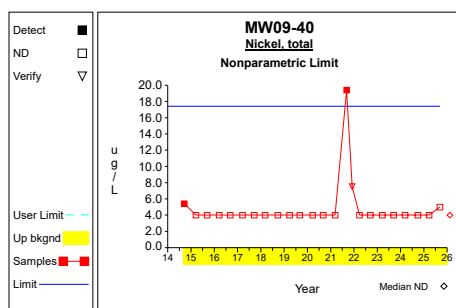
Graph 67



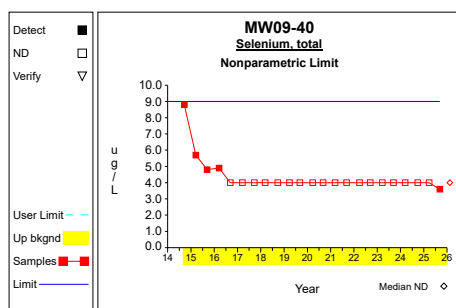
Graph 68



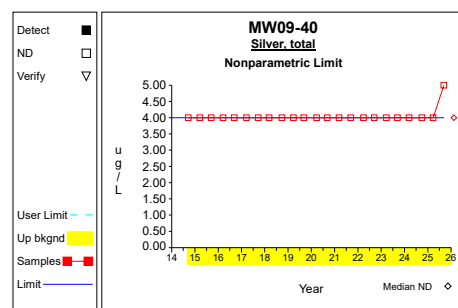
Graph 69



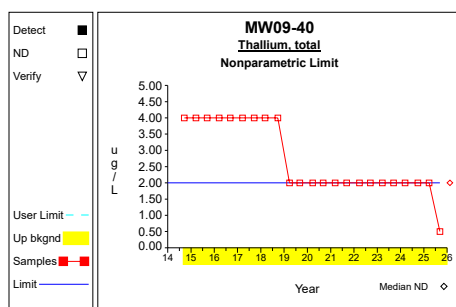
Graph 70



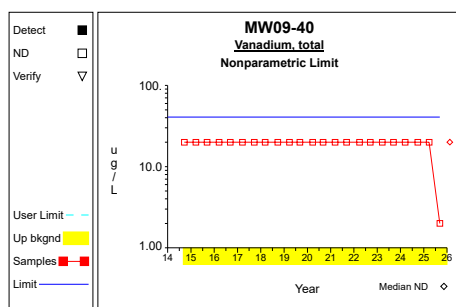
Graph 71



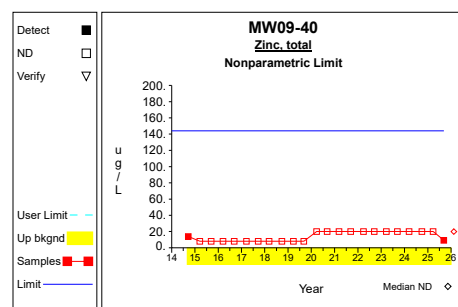
Graph 72



Graph 73

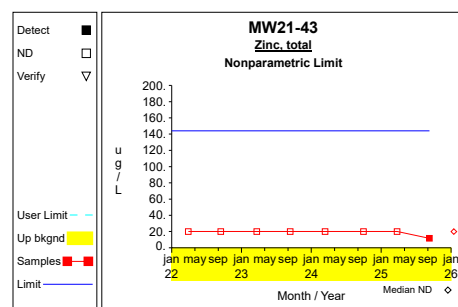
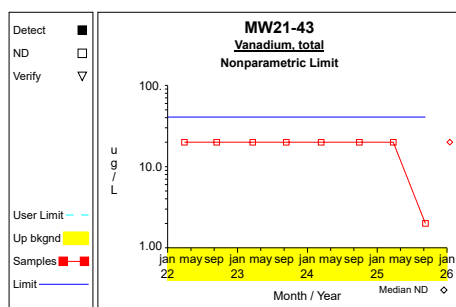
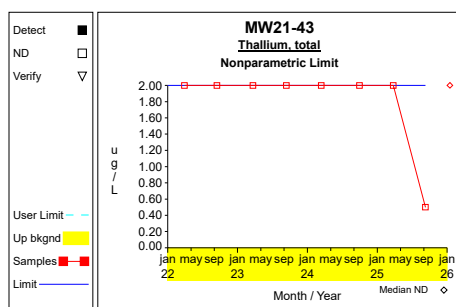
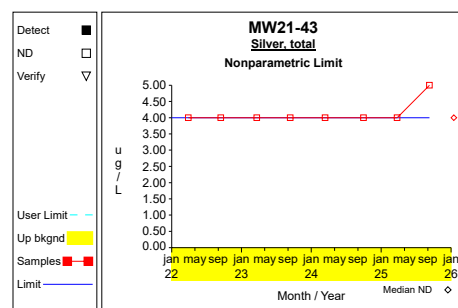
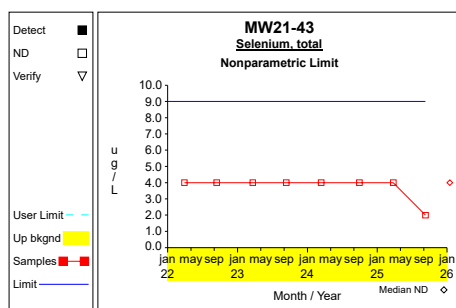
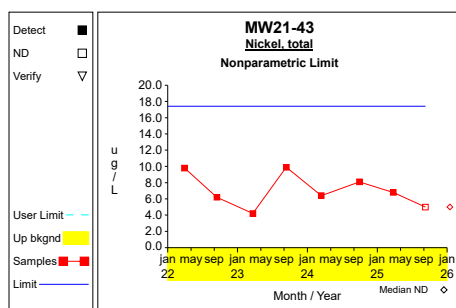
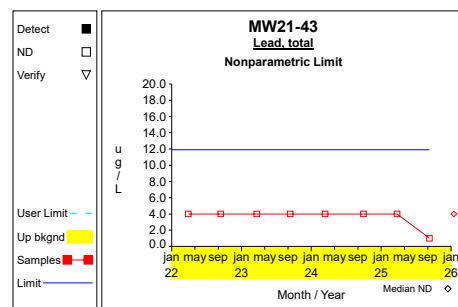
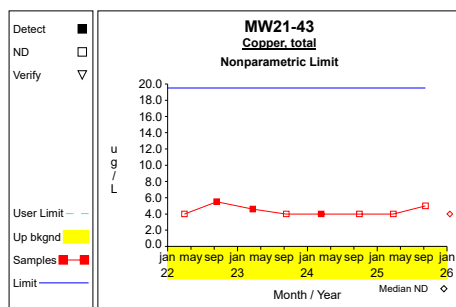
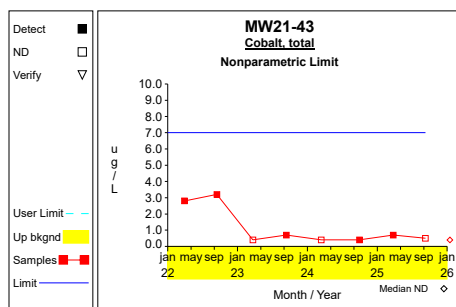
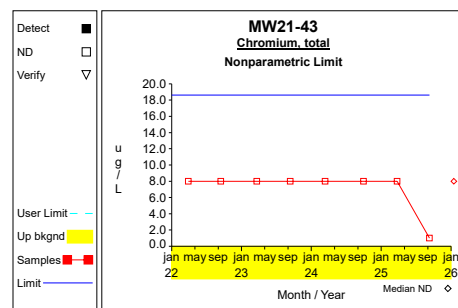
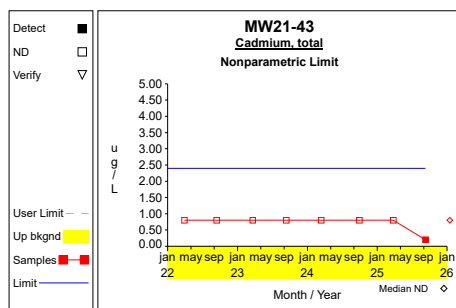
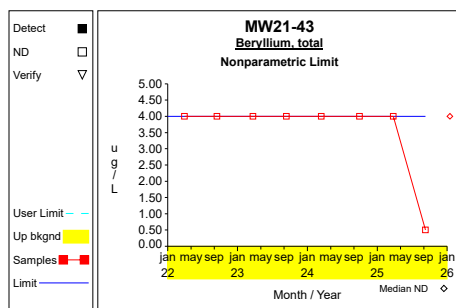
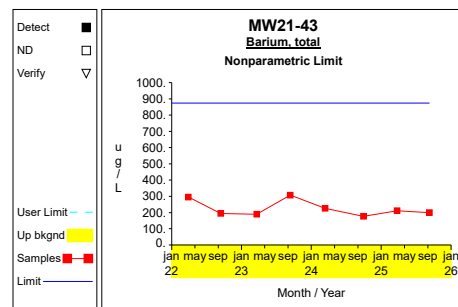
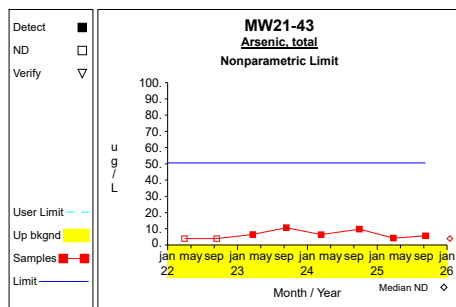
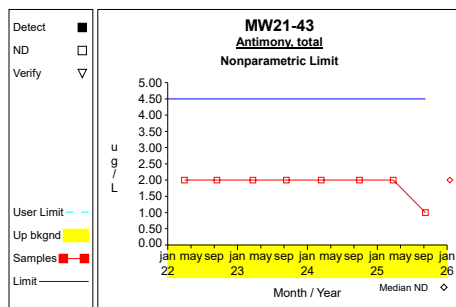


Graph 74

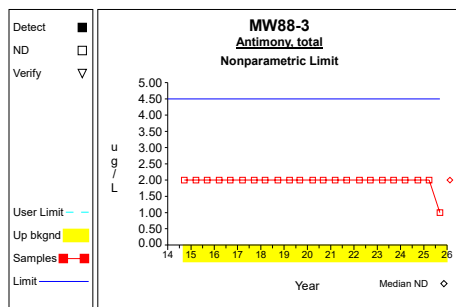


Graph 75

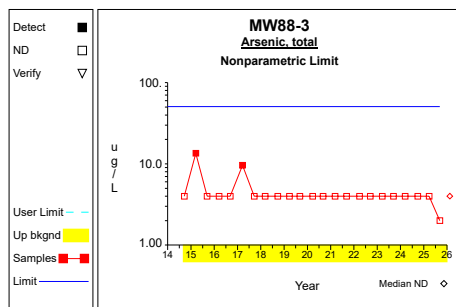
Up vs. Down Prediction Limits



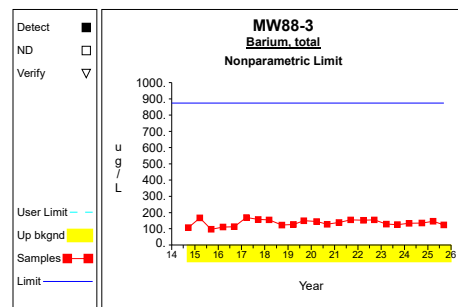
Up vs. Down Prediction Limits



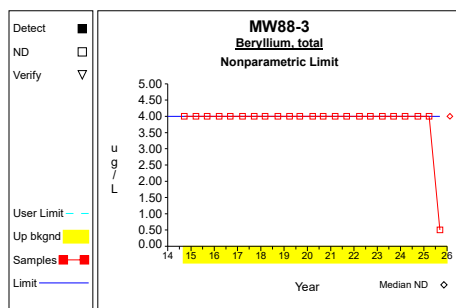
Graph 91



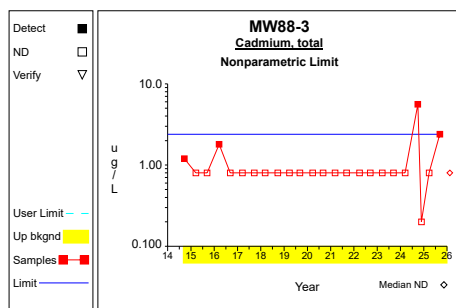
Graph 92



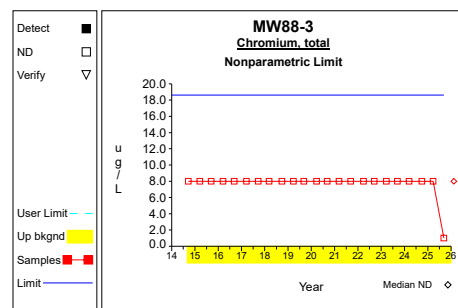
Graph 93



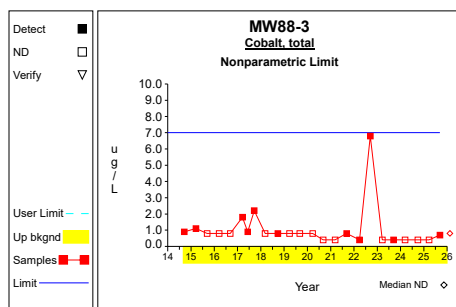
Graph 94



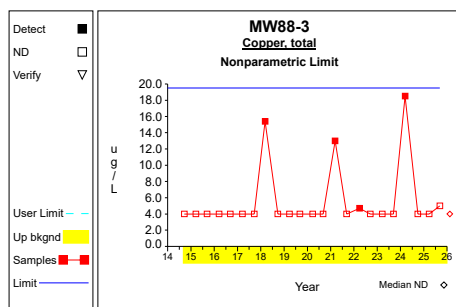
Graph 95



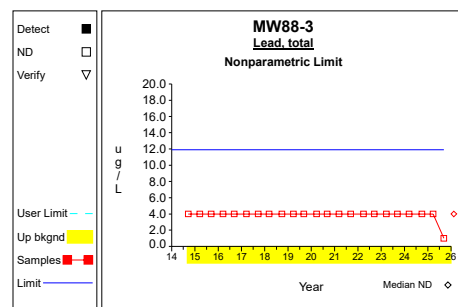
Graph 96



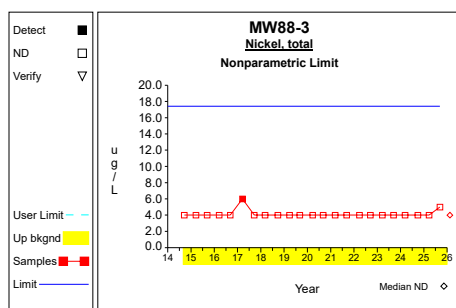
Graph 97



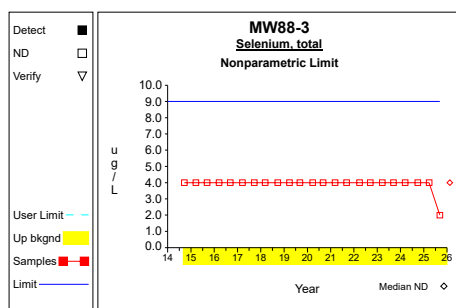
Graph 98



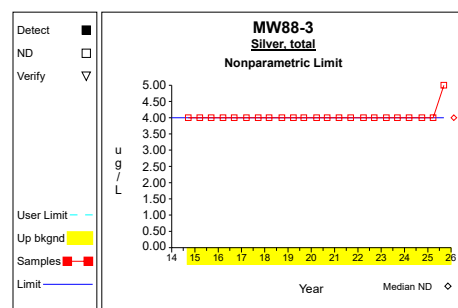
Graph 99



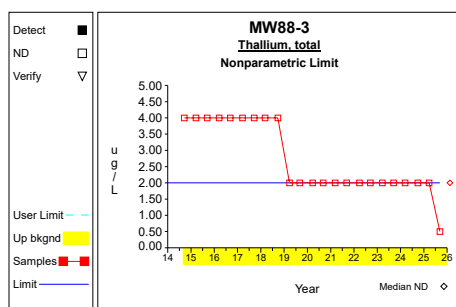
Graph 100



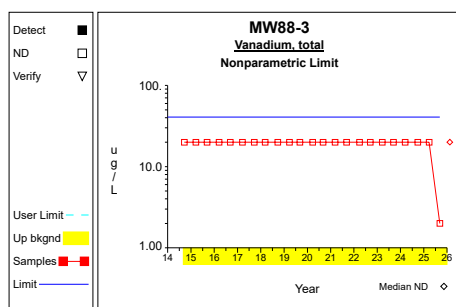
Graph 101



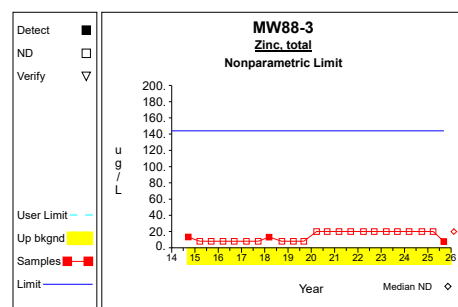
Graph 102



Graph 103

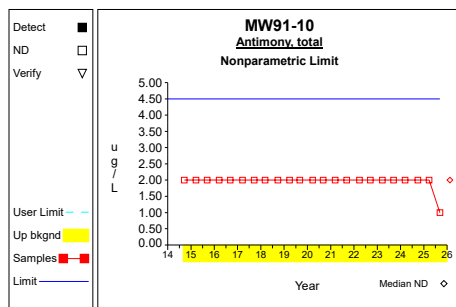


Graph 104

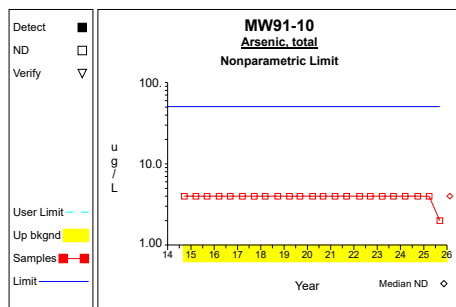


Graph 105

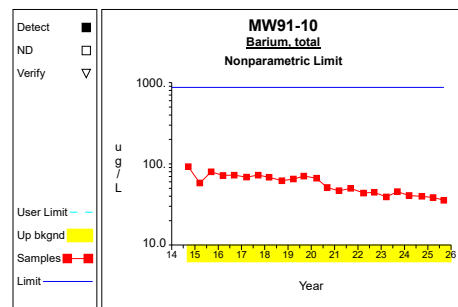
Up vs. Down Prediction Limits



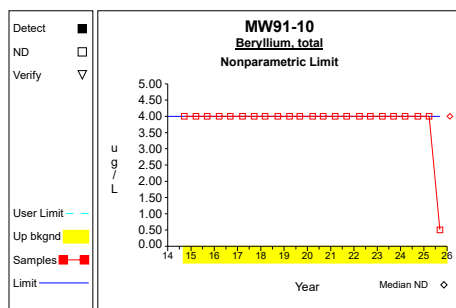
Graph 106



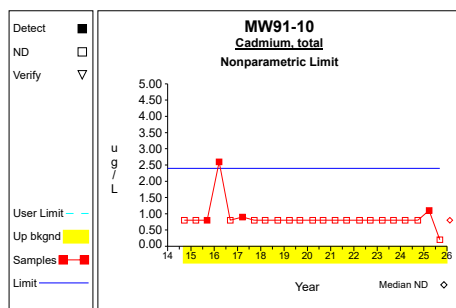
Graph 107



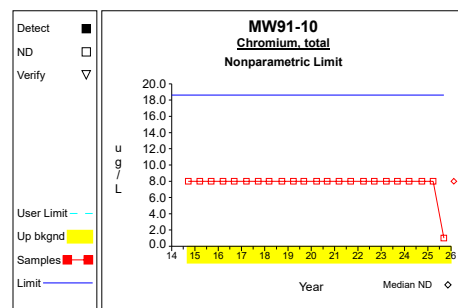
Graph 108



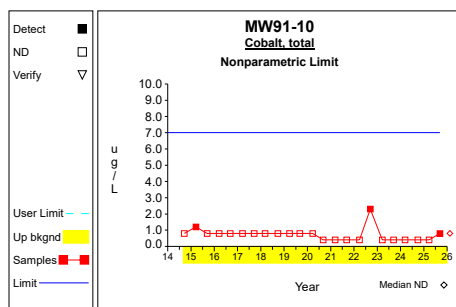
Graph 109



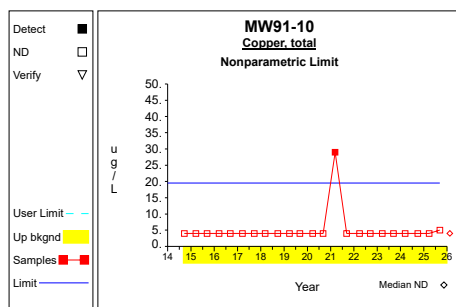
Graph 110



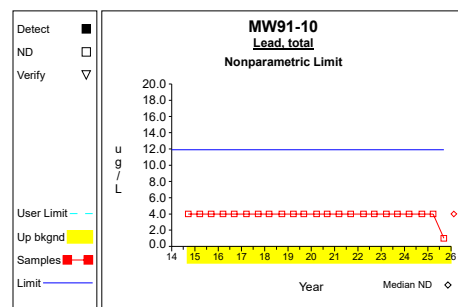
Graph 111



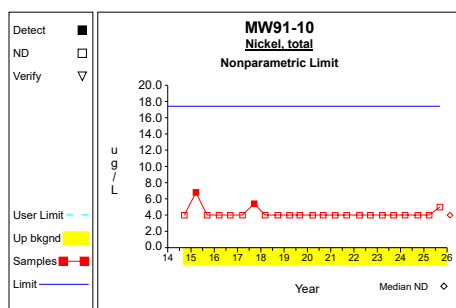
Graph 112



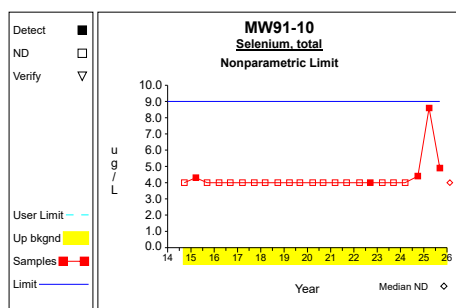
Graph 113



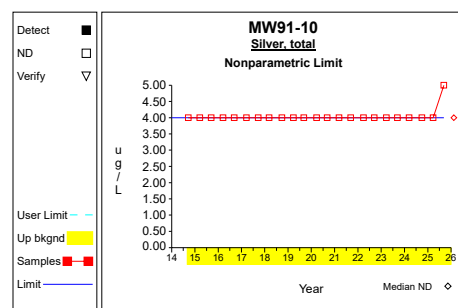
Graph 114



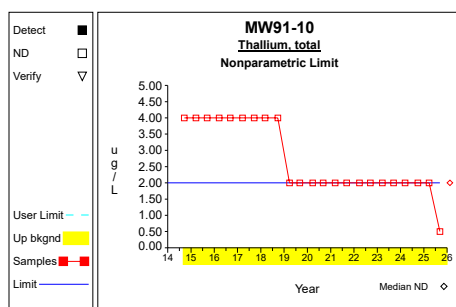
Graph 115



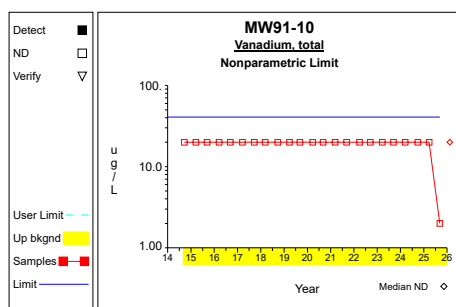
Graph 116



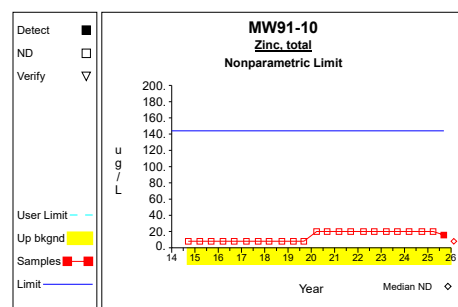
Graph 117



Graph 118

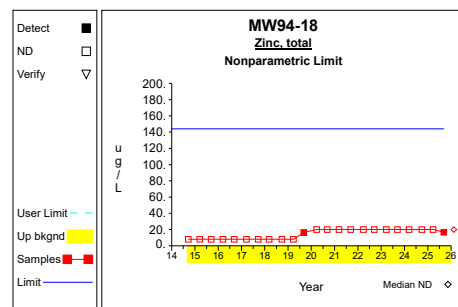
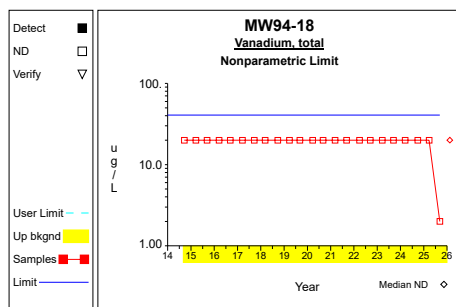
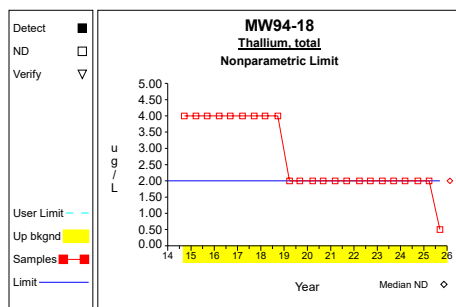
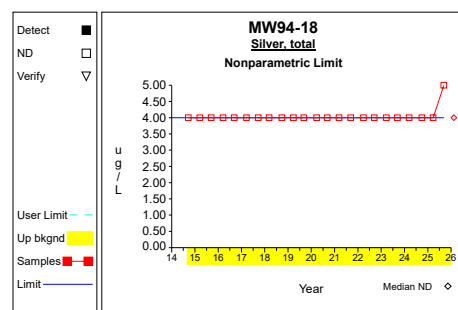
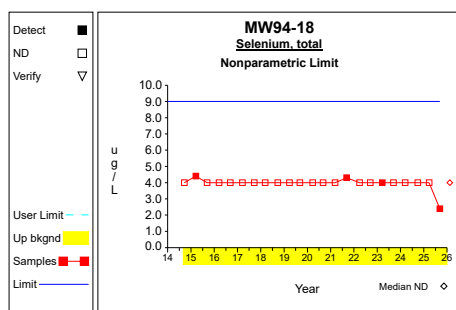
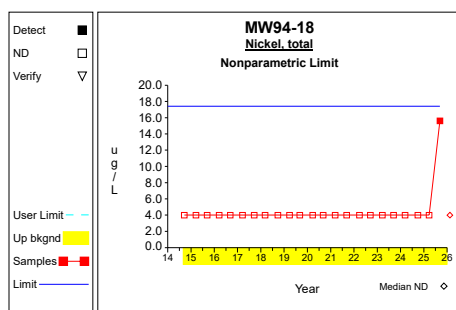
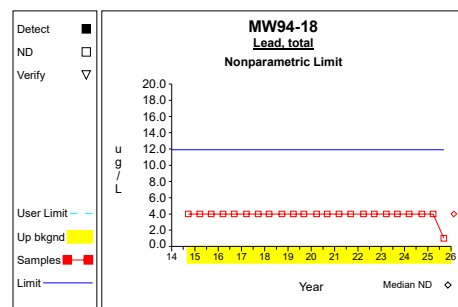
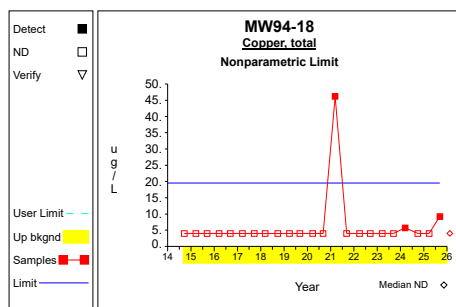
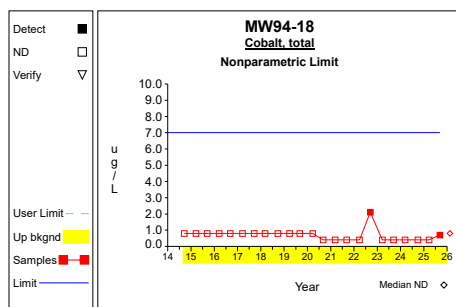
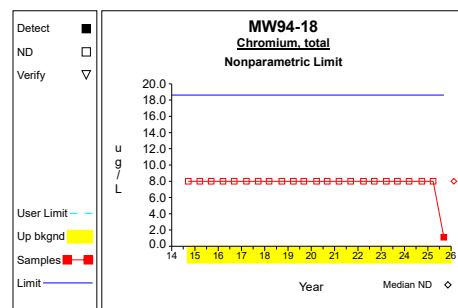
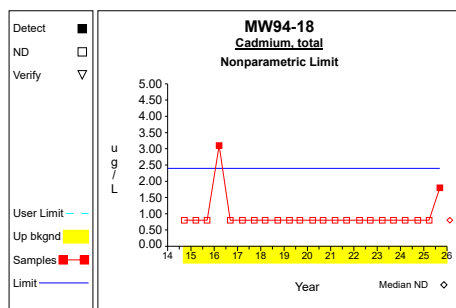
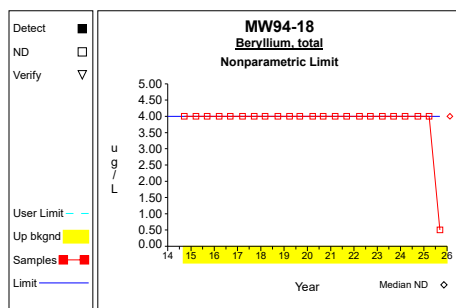
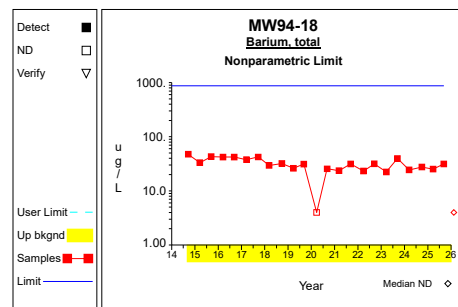
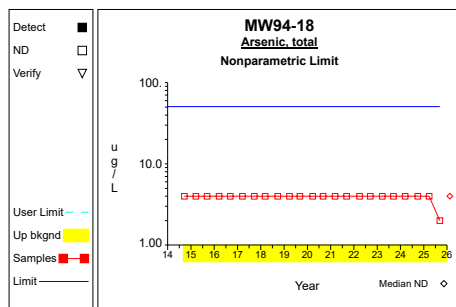
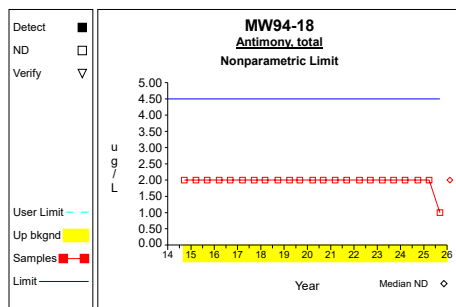


Graph 119

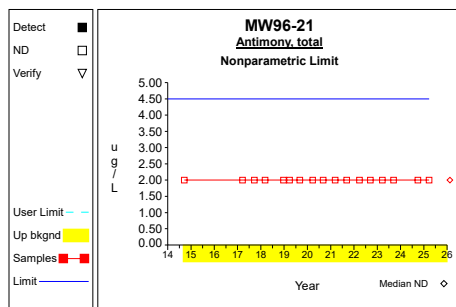


Graph 120

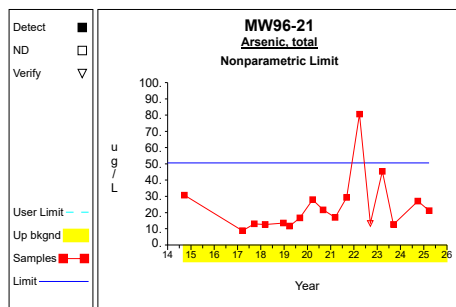
Up vs. Down Prediction Limits



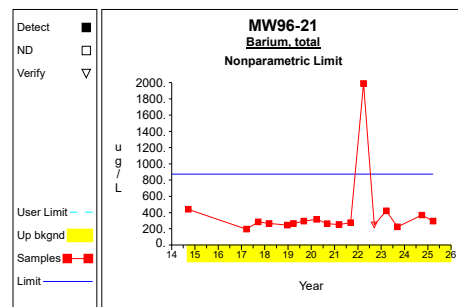
Up vs. Down Prediction Limits



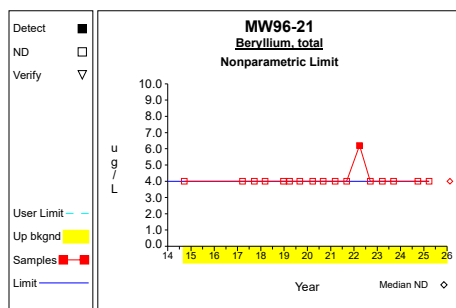
Graph 136



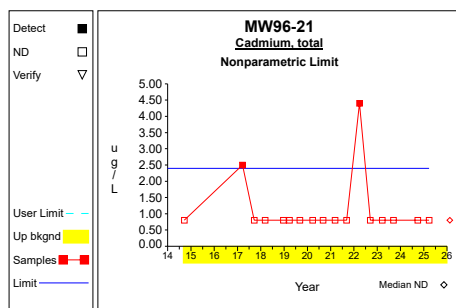
Graph 137



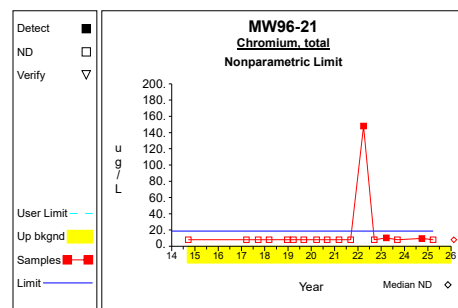
Graph 138



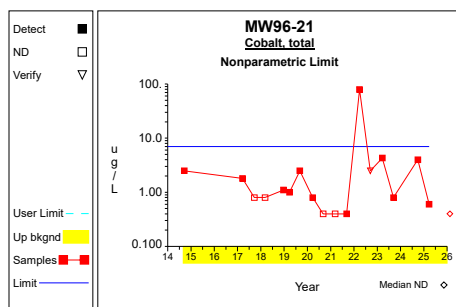
Graph 139



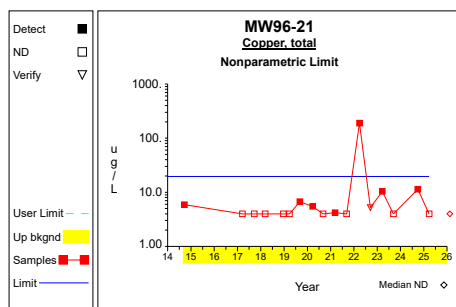
Graph 140



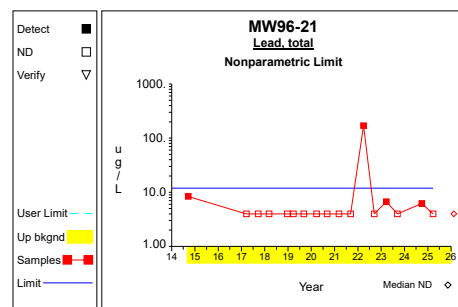
Graph 141



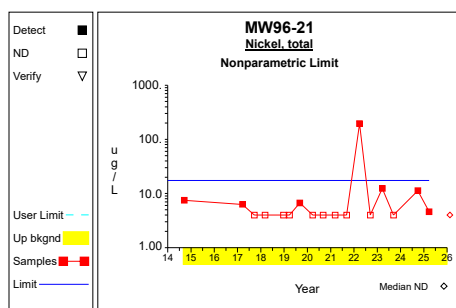
Graph 142



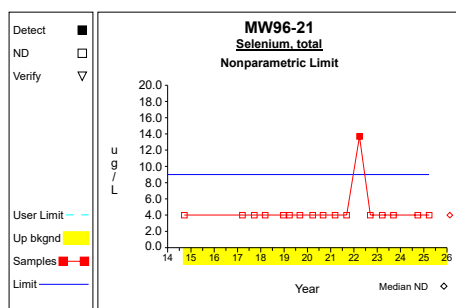
Graph 143



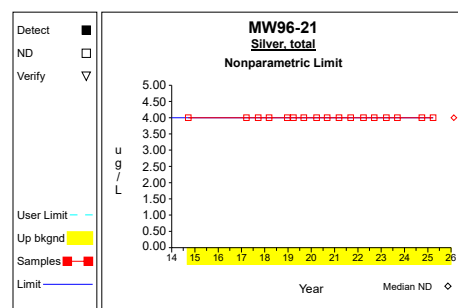
Graph 144



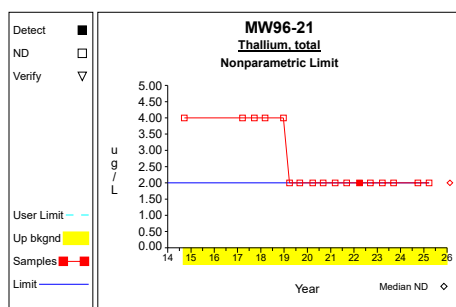
Graph 145



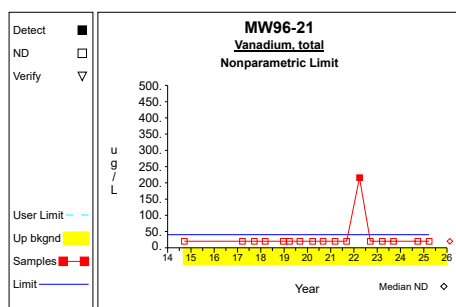
Graph 146



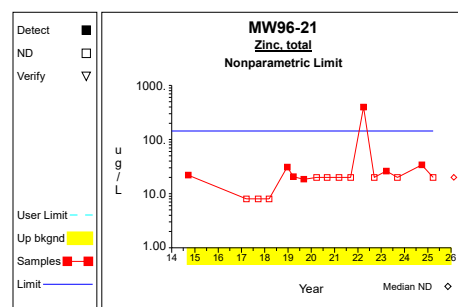
Graph 147



Graph 148

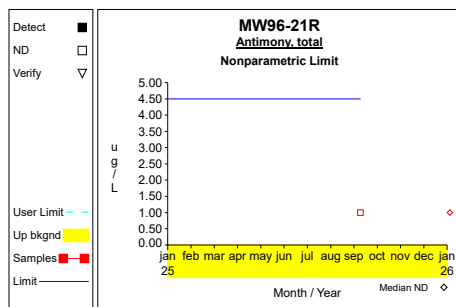


Graph 149

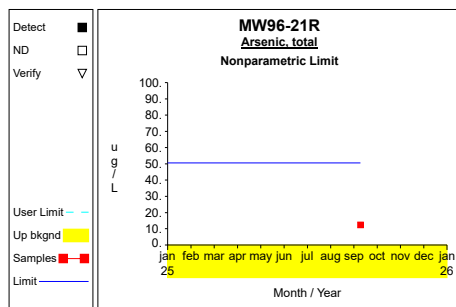


Graph 150

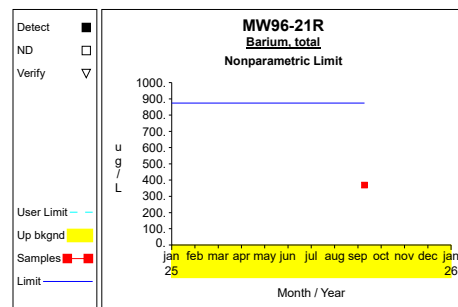
Up vs. Down Prediction Limits



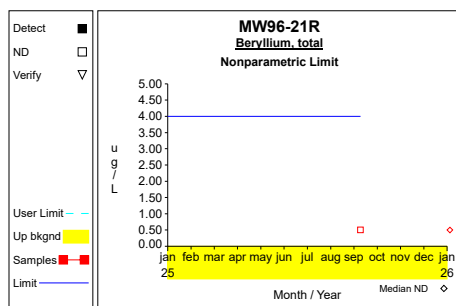
Graph 151



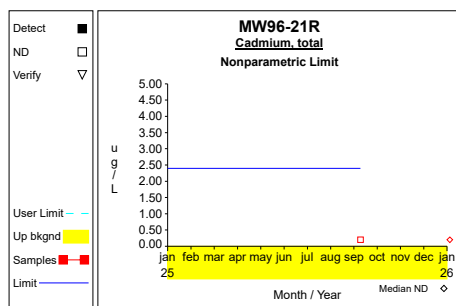
Graph 152



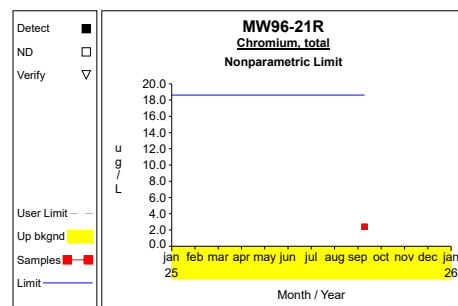
Graph 153



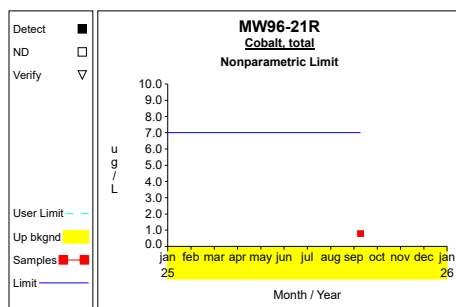
Graph 154



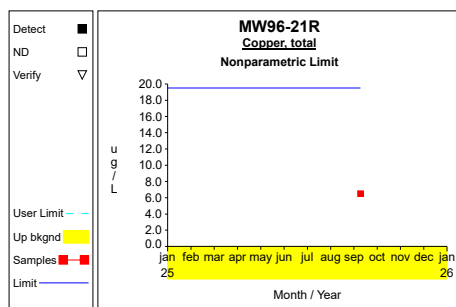
Graph 155



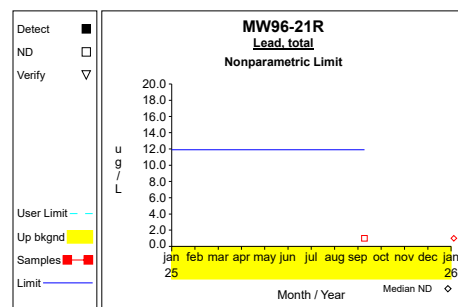
Graph 156



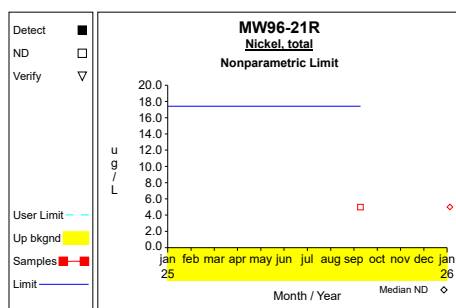
Graph 157



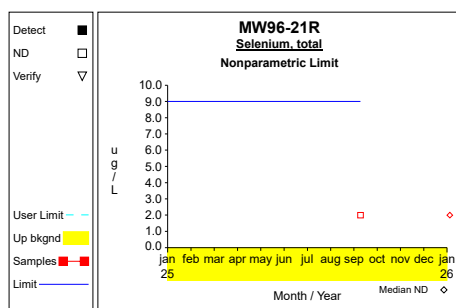
Graph 158



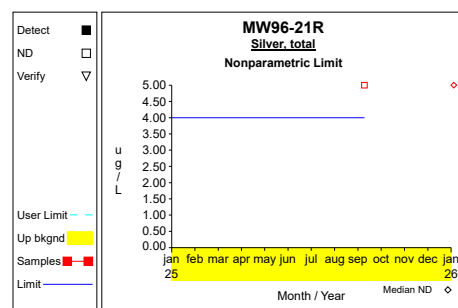
Graph 159



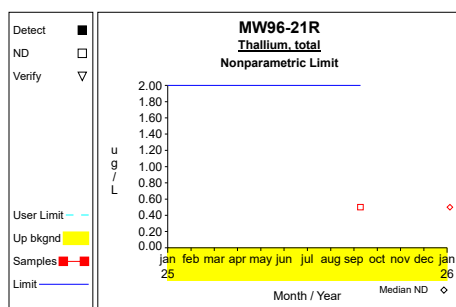
Graph 160



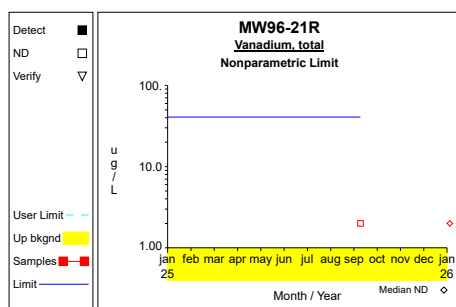
Graph 161



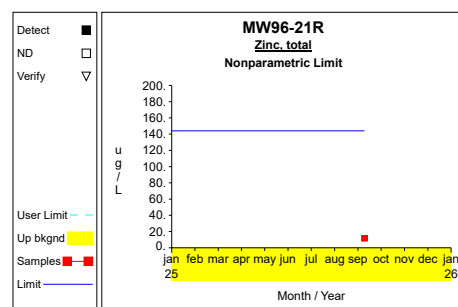
Graph 162



Graph 163

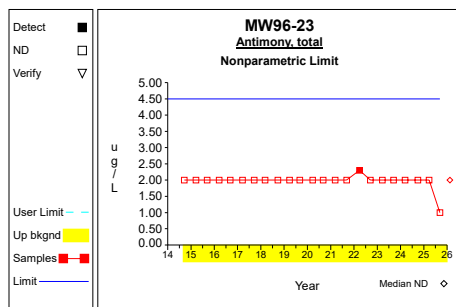


Graph 164

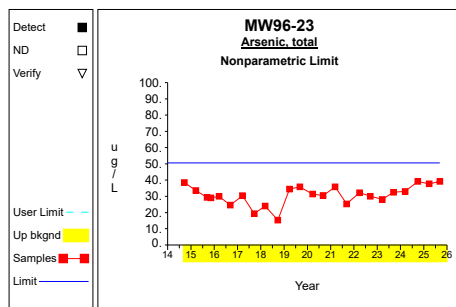


Graph 165

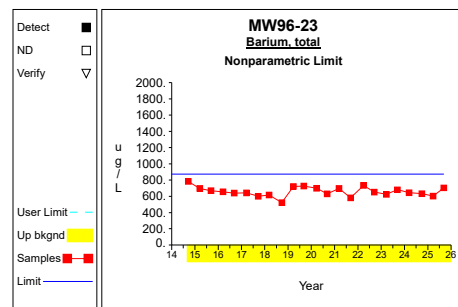
Up vs. Down Prediction Limits



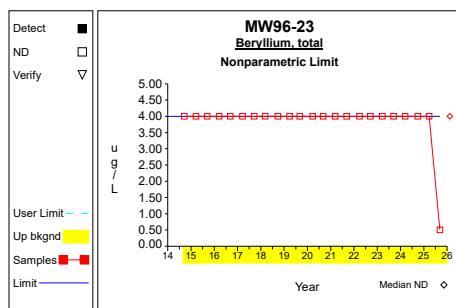
Graph 166



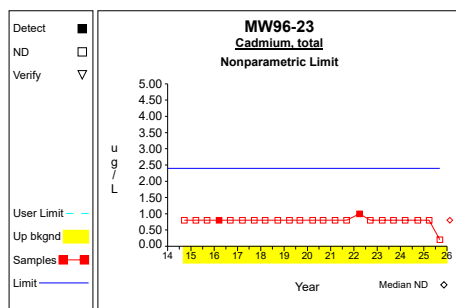
Graph 167



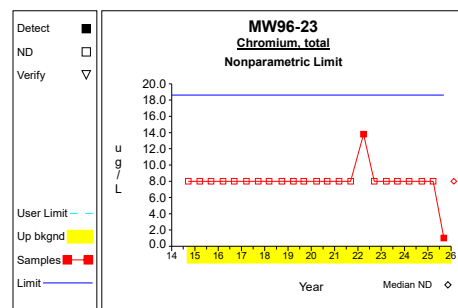
Graph 168



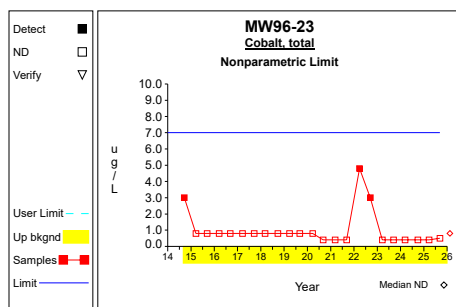
Graph 169



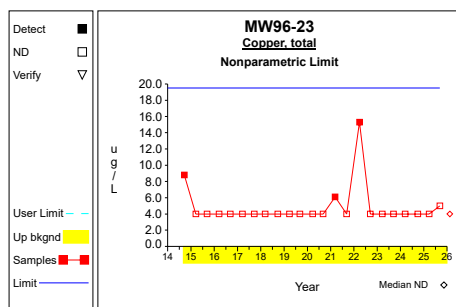
Graph 170



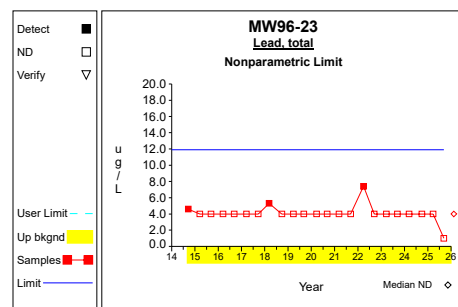
Graph 171



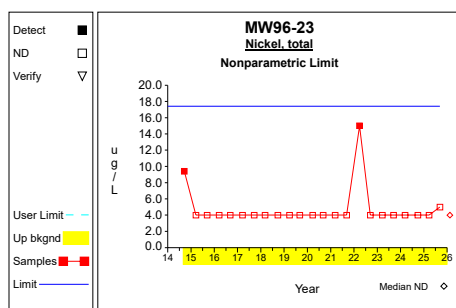
Graph 172



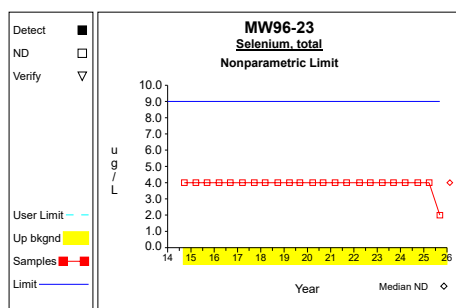
Graph 173



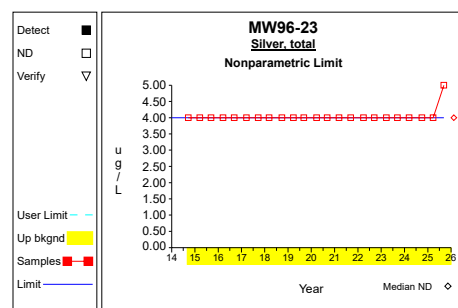
Graph 174



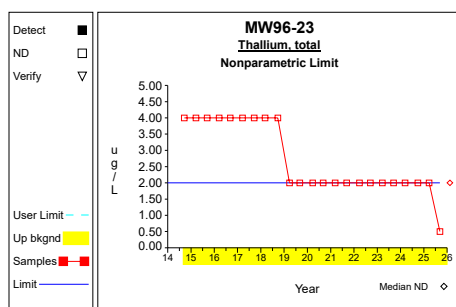
Graph 175



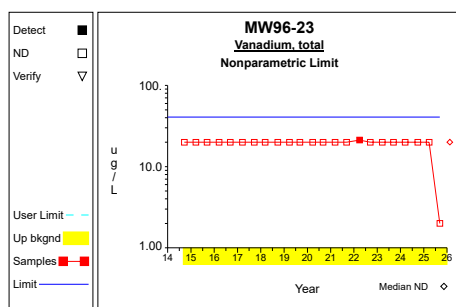
Graph 176



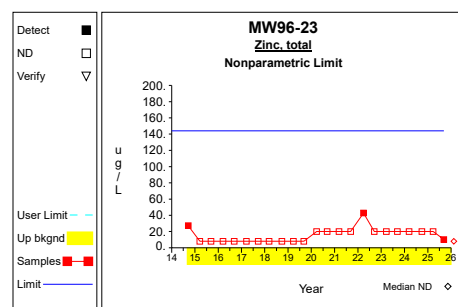
Graph 177



Graph 178

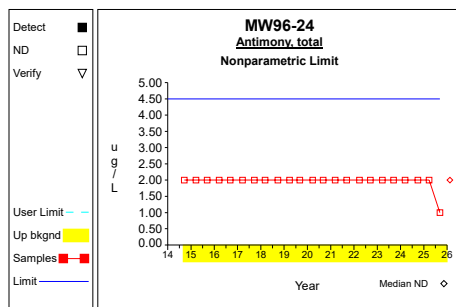


Graph 179

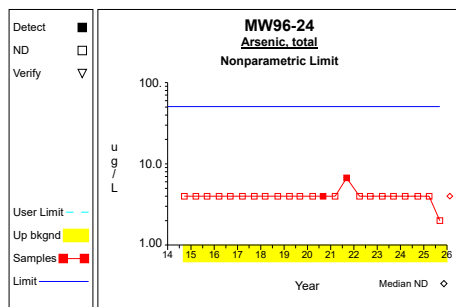


Graph 180

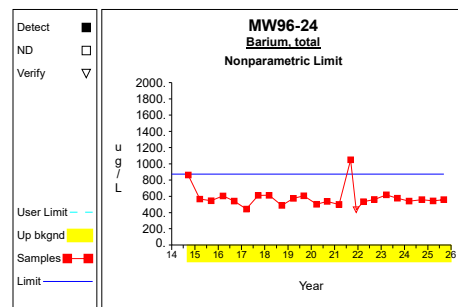
Up vs. Down Prediction Limits



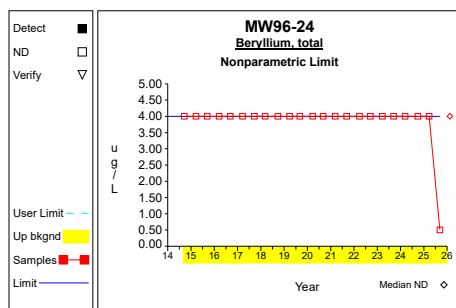
Graph 181



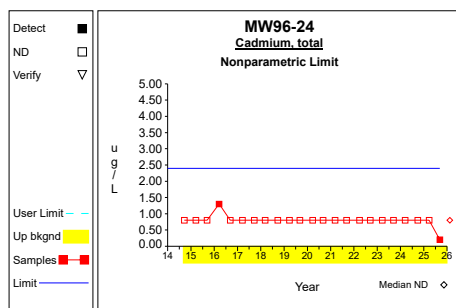
Graph 182



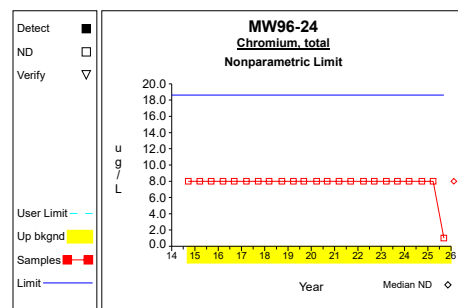
Graph 183



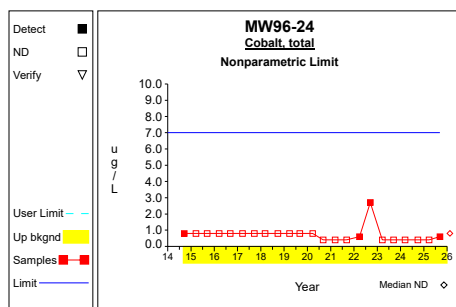
Graph 184



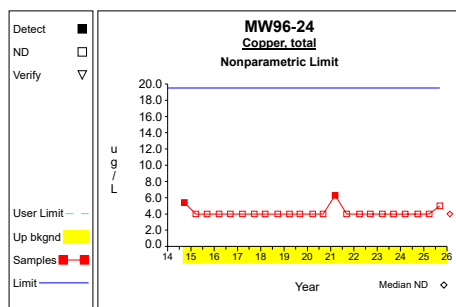
Graph 185



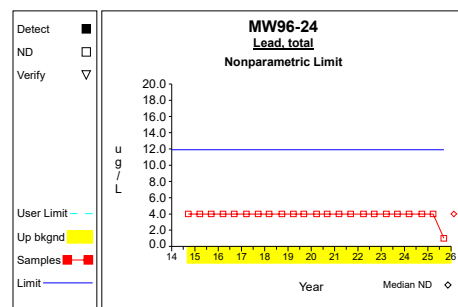
Graph 186



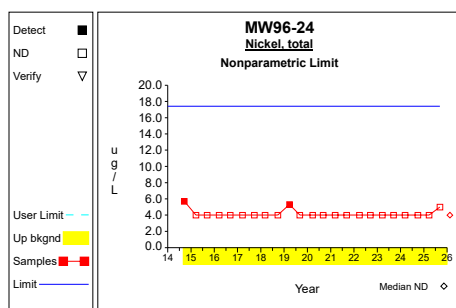
Graph 187



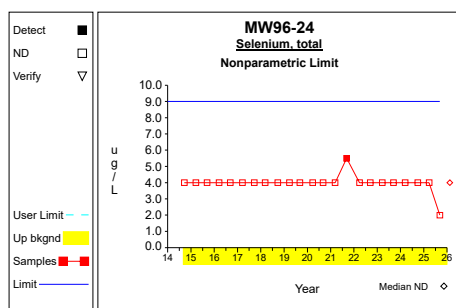
Graph 188



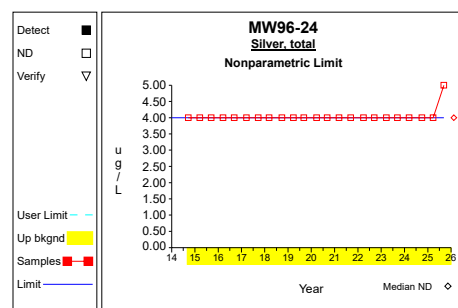
Graph 189



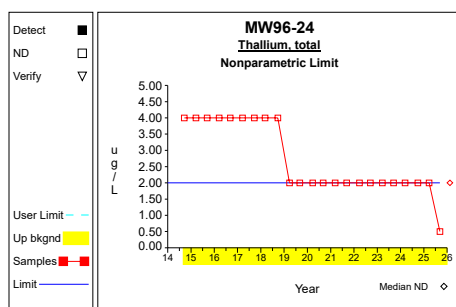
Graph 190



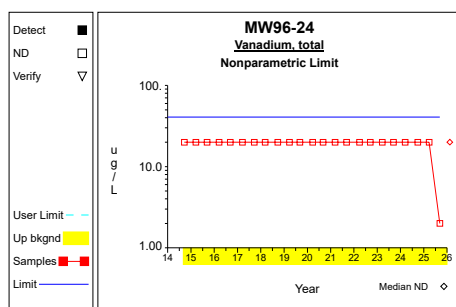
Graph 191



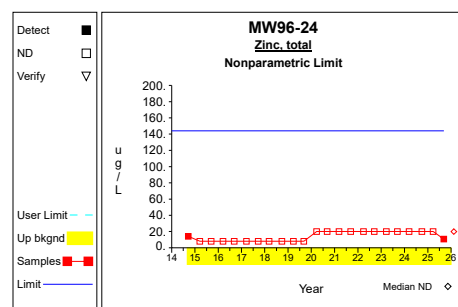
Graph 192



Graph 193

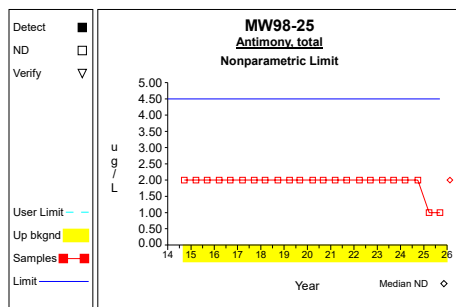


Graph 194

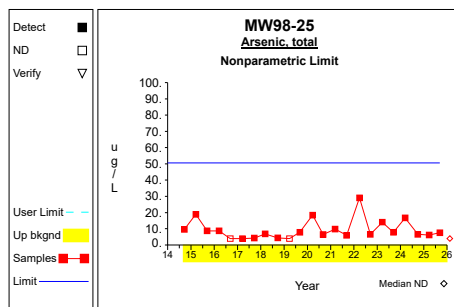


Graph 195

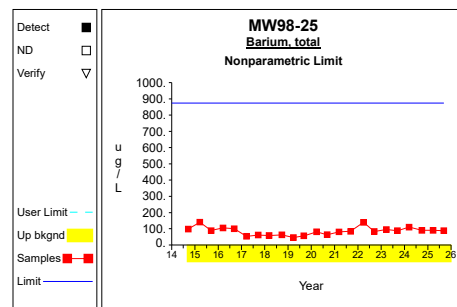
Up vs. Down Prediction Limits



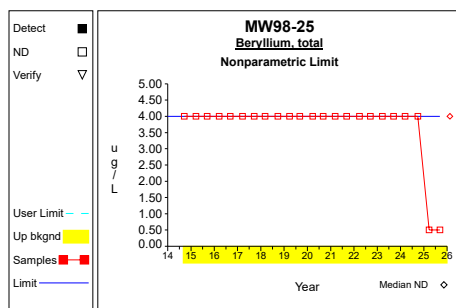
Graph 196



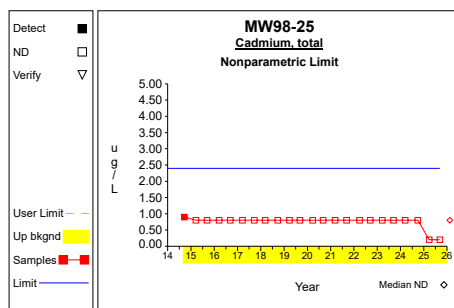
Graph 197



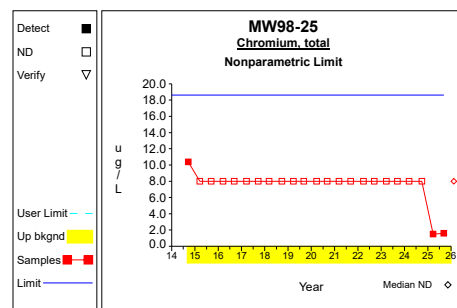
Graph 198



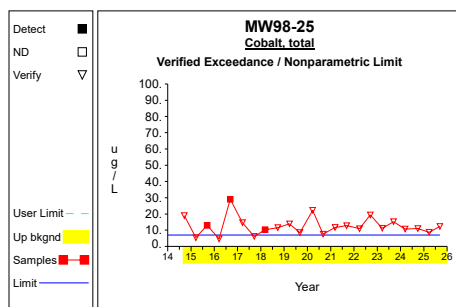
Graph 199



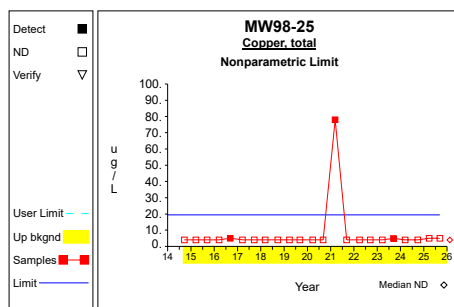
Graph 200



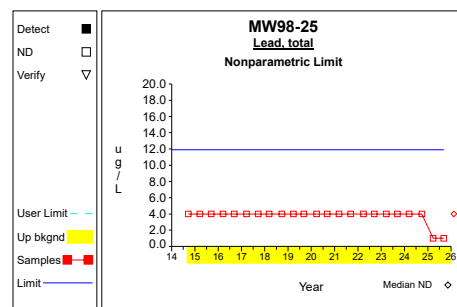
Graph 201



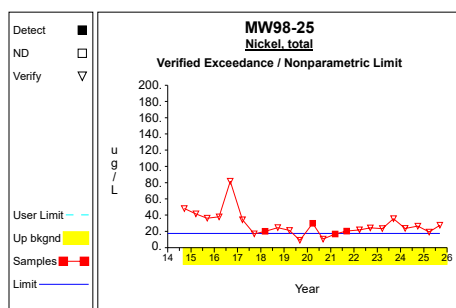
Graph 202



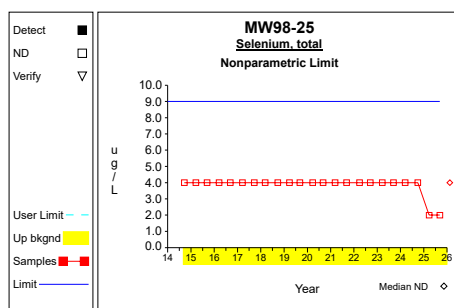
Graph 203



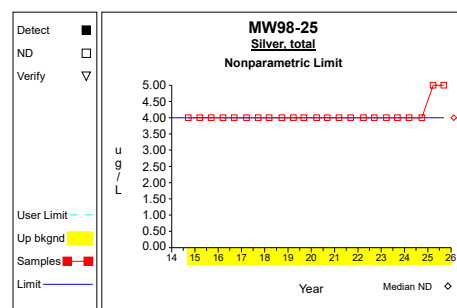
Graph 204



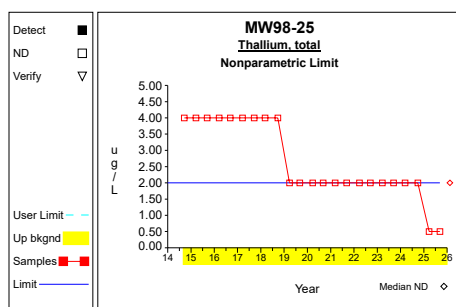
Graph 205



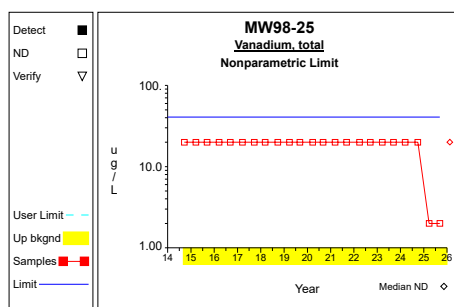
Graph 206



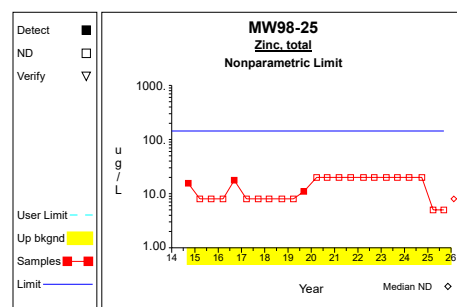
Graph 207



Graph 208

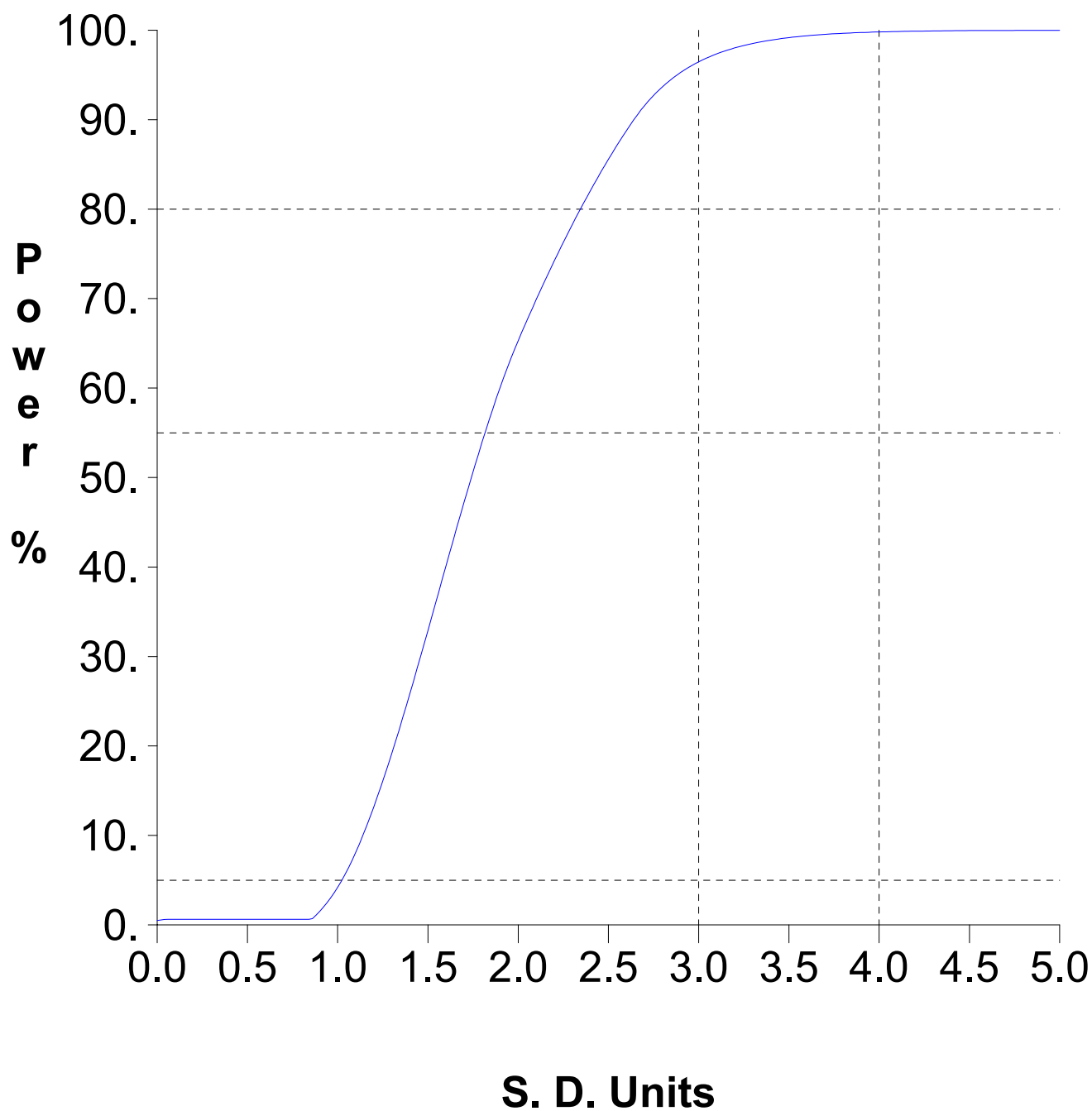


Graph 209



Graph 210

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



Attachment C

Assessment Statistics for Detected Trace Metals

Table 1

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

Constituent	Units	Well	N	Mean	SD	Factor	95% LCL	95% UCL	Standard	Trend	
Cobalt, total	ug/L	GU-4	4	1.125	1.209	1.176	0.000	2.548	2.100		
Nickel, total	ug/L	GU-4	4	5.175	3.785	1.176	0.723	9.627	100.000		
Zinc, total	ug/L	GU-4	4	152.450	116.748	1.176	15.121	289.779	2000.000		
Cobalt, total	ug/L	MW98-25	4	10.675	1.489	1.176	8.924	12.426	2.100	dec	**
Nickel, total	ug/L	MW98-25	4	24.225	3.751	1.176	19.813	28.637	100.000	dec	
Zinc, total	ug/L	MW98-25	4	4.000	0.000	1.176	4.000	4.000	2000.000		

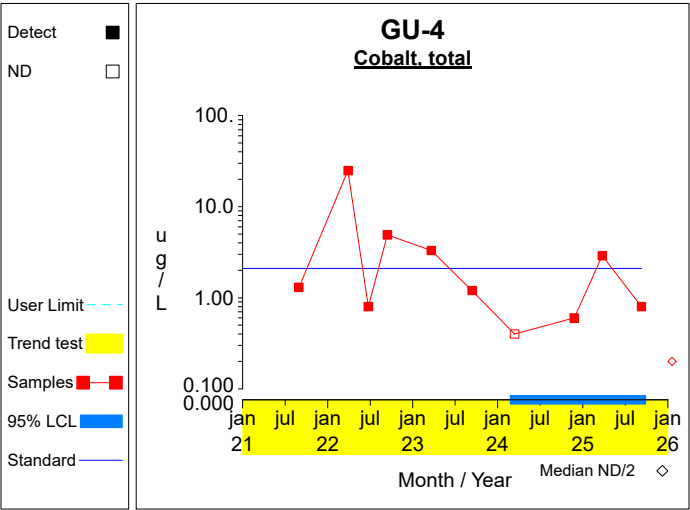
* - Insufficient Data

** - Significant Exceedance

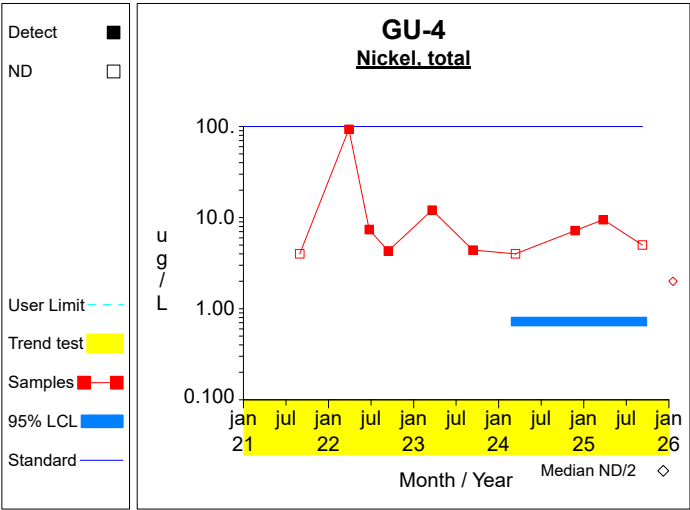
LCL = Lower Confidence Limit

UCL = Upper Confidence Limit

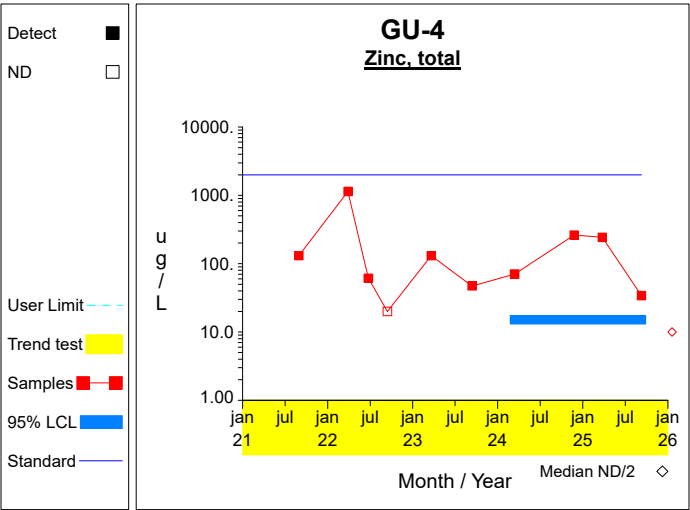
Confidence Limits (Assessment)



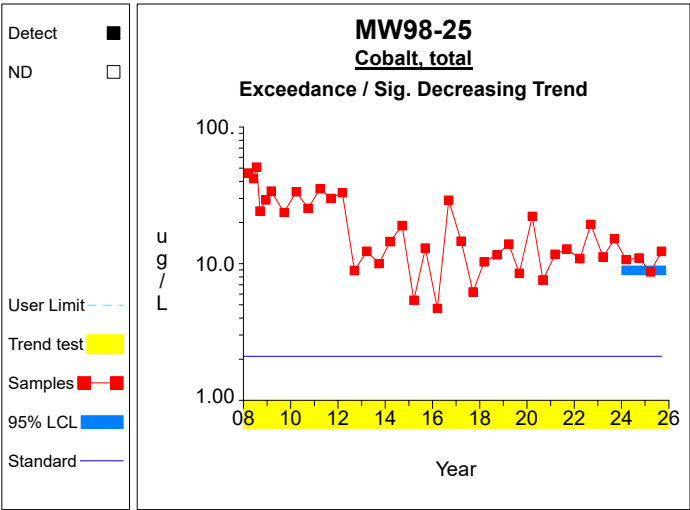
Graph 1



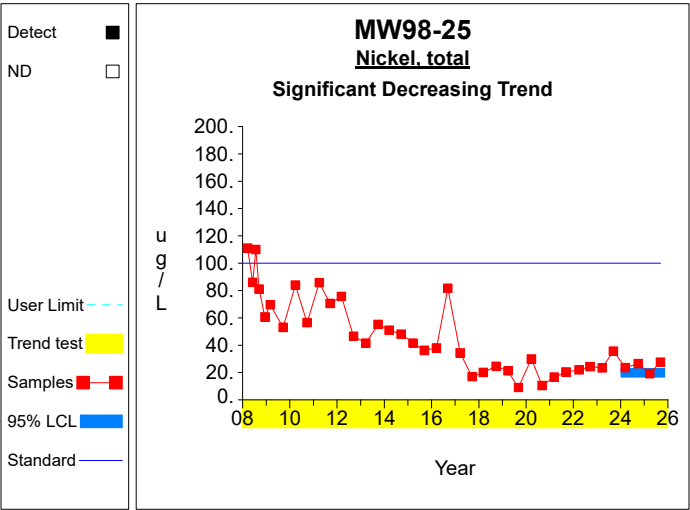
Graph 2



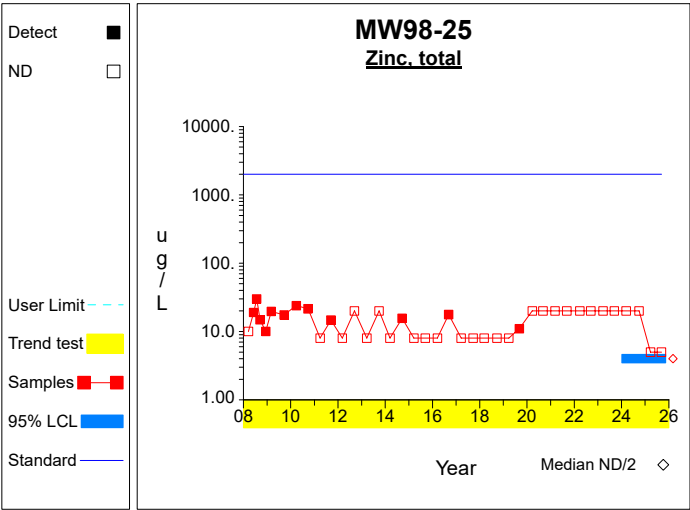
Graph 3



Graph 4



Graph 5



Graph 6

Attachment D

Summary Tables and Graphs for the Intrawell Comparisons

Table 1

**Summary Statistics and Intermediate Computations
for Combined Shewhart-CUSUM Control Charts**

Constituent	Units	Well	N(back)	N(mon)	N(tot)	Mean	SD	R(i-1)	R(i)	S(i-1)	S(i)	Limit	Type	Conf	
Antimony, total	ug/L	GU-4	6	2	8								nonpar *		**
Arsenic, total	ug/L	GU-4	7	2	10	4.6571	0.8522	2.3000	2.4000	4.6571	4.6571	10.1962	normal		**
Barium, total	ug/L	GU-4	6	2	8	445.5000	48.6282	350.0000	477.0000	445.5000	445.5000	761.5832	normal		**
Beryllium, total	ug/L	GU-4	8	2	10								nonpar *		**
Cadmium, total	ug/L	GU-4	8	2	10								nonpar *		**
Chromium, total	ug/L	GU-4	6	2	8								nonpar *		**
Cobalt, total	ug/L	GU-4	8	2	10	4.6750	8.3183	2.9000	0.8000	4.6750	4.6750	58.7437	normal		**
Copper, total	ug/L	GU-4	7	2	10								nonpar *		**
Lead, total	ug/L	GU-4	7	2	10								nonpar *		**
Nickel, total	ug/L	GU-4	8	2	10	17.0750	30.8838	9.5000	5.0000	17.0750	17.0750	217.8196	normal		**
Selenium, total	ug/L	GU-4	8	2	10								nonpar *		**
Silver, total	ug/L	GU-4	6	2	8								nonpar *		**
Thallium, total	ug/L	GU-4	6	2	8								nonpar *		**
Vanadium, total	ug/L	GU-4	7	2	10								nonpar *		**
Zinc, total	ug/L	GU-4	8	2	10	232.9000	374.1678	243.0000	34.1000	232.9000	232.9000	2664.9906	normal		**

N(back) and N(mon) = Non-outlier measurements in the background and monitoring periods.

N(tot) = All independent measurements for that constituent and well.

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

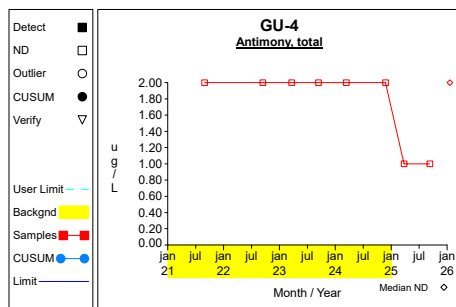
Conf = confidence level for passing initial test or one verification resample (nonparametric test only).

* - Insufficient Data.

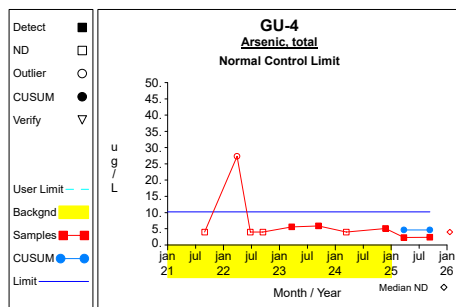
** - Detection Frequency < 25%.

*** - Zero Variance.

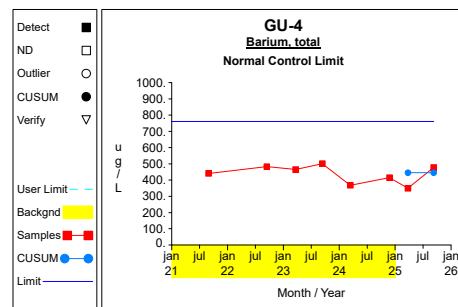
Intra-Well Control Charts / Prediction Limits



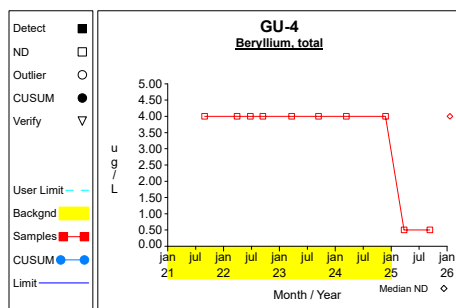
Graph 1



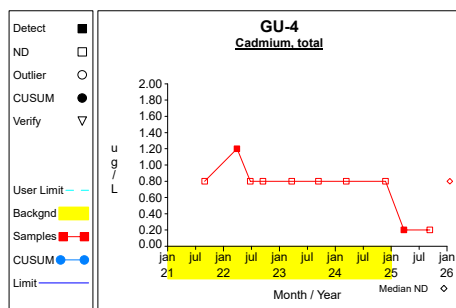
Graph 2



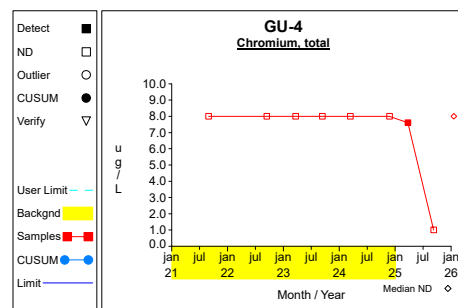
Graph 3



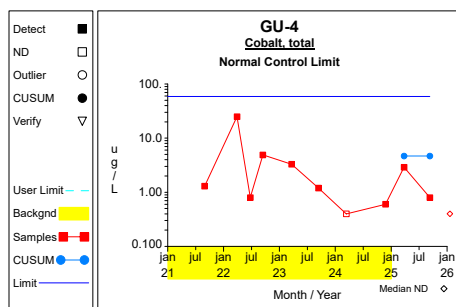
Graph 4



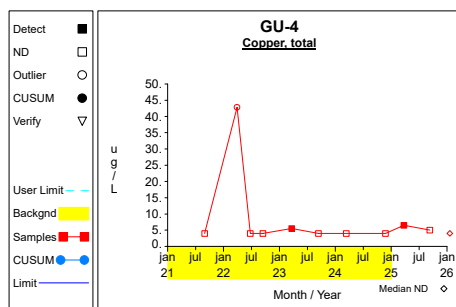
Graph 5



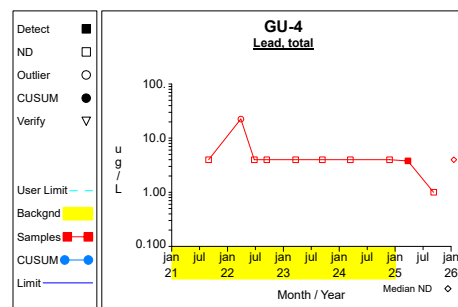
Graph 6



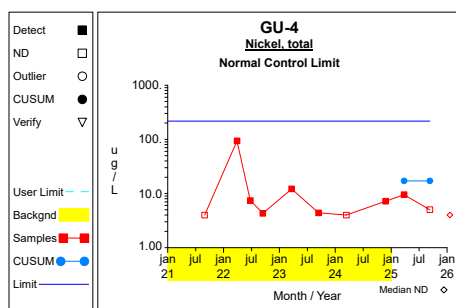
Graph 7



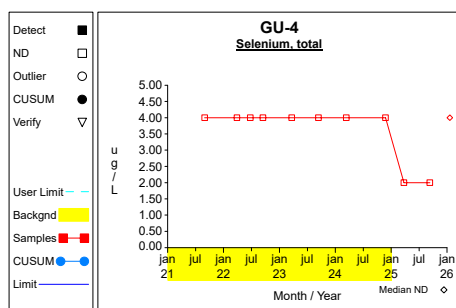
Graph 8



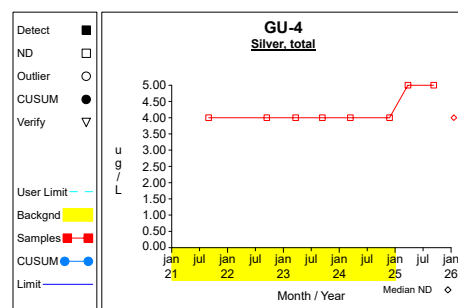
Graph 9



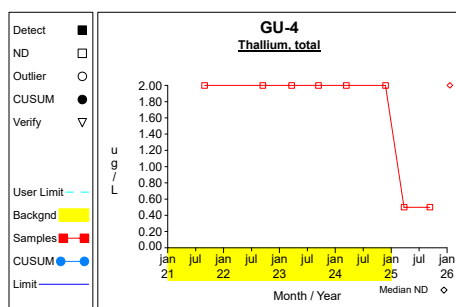
Graph 10



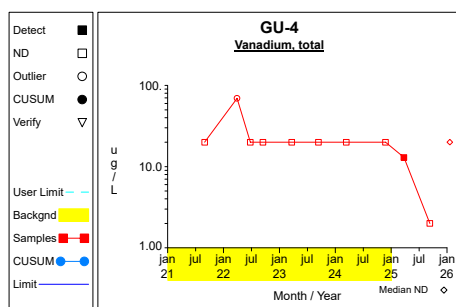
Graph 11



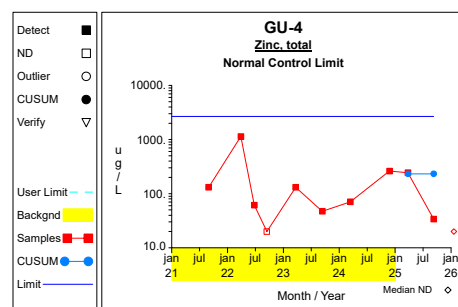
Graph 12



Graph 13



Graph 14



Graph 15

Table 2

Analytical Data and CUSUM Summary

Constituent	Units	Well	Date	Background	Result		Outlier	CUSUM	Adjusted	
Antimony, total	ug/L	GU-4	08/30/2021	yes	2.0000	ND				
Antimony, total	ug/L	GU-4	09/14/2022	yes	2.0000	ND				
Antimony, total	ug/L	GU-4	03/20/2023	yes	2.0000	ND				
Antimony, total	ug/L	GU-4	09/12/2023	yes	2.0000	ND				
Antimony, total	ug/L	GU-4	03/12/2024	yes	2.0000	ND				
Antimony, total	ug/L	GU-4	11/25/2024	yes	2.0000	ND				
Antimony, total	ug/L	GU-4	03/24/2025		1.0000	ND				
Antimony, total	ug/L	GU-4	09/09/2025		1.0000	ND				
Arsenic, total	ug/L	GU-4	08/30/2021	yes	4.0000	ND				
Arsenic, total	ug/L	GU-4	03/28/2022	yes	27.3000	ND	yes			*
Arsenic, total	ug/L	GU-4	06/24/2022	yes	4.0000	ND				
Arsenic, total	ug/L	GU-4	09/14/2022	yes	4.0000	ND				
Arsenic, total	ug/L	GU-4	03/20/2023	yes	5.6000					
Arsenic, total	ug/L	GU-4	09/12/2023	yes	5.9000					
Arsenic, total	ug/L	GU-4	03/12/2024	yes	4.0000	ND				
Arsenic, total	ug/L	GU-4	11/25/2024	yes	5.1000					
Arsenic, total	ug/L	GU-4	03/24/2025		2.3000			4.6571		
Arsenic, total	ug/L	GU-4	09/09/2025		2.4000			4.6571		
Barium, total	ug/L	GU-4	08/30/2021	yes	441.0000					
Barium, total	ug/L	GU-4	09/14/2022	yes	483.0000					
Barium, total	ug/L	GU-4	03/20/2023	yes	465.0000					
Barium, total	ug/L	GU-4	09/12/2023	yes	501.0000					
Barium, total	ug/L	GU-4	03/12/2024	yes	368.0000					
Barium, total	ug/L	GU-4	11/25/2024	yes	415.0000					
Barium, total	ug/L	GU-4	03/24/2025		350.0000			445.5000		
Barium, total	ug/L	GU-4	09/09/2025		477.0000			445.5000		
Beryllium, total	ug/L	GU-4	08/30/2021	yes	4.0000	ND				
Beryllium, total	ug/L	GU-4	03/28/2022	yes	4.0000	ND				
Beryllium, total	ug/L	GU-4	06/24/2022	yes	4.0000	ND				
Beryllium, total	ug/L	GU-4	09/14/2022	yes	4.0000	ND				
Beryllium, total	ug/L	GU-4	03/20/2023	yes	4.0000	ND				
Beryllium, total	ug/L	GU-4	09/12/2023	yes	4.0000	ND				
Beryllium, total	ug/L	GU-4	03/12/2024	yes	4.0000	ND				
Beryllium, total	ug/L	GU-4	11/25/2024	yes	4.0000	ND				
Beryllium, total	ug/L	GU-4	03/24/2025		0.5000	ND				
Beryllium, total	ug/L	GU-4	09/09/2025		0.5000	ND				
Cadmium, total	ug/L	GU-4	08/30/2021	yes	0.8000	ND				
Cadmium, total	ug/L	GU-4	03/28/2022	yes	1.2000					
Cadmium, total	ug/L	GU-4	06/24/2022	yes	0.8000	ND				
Cadmium, total	ug/L	GU-4	09/14/2022	yes	0.8000	ND				
Cadmium, total	ug/L	GU-4	03/20/2023	yes	0.8000	ND				
Cadmium, total	ug/L	GU-4	09/12/2023	yes	0.8000	ND				
Cadmium, total	ug/L	GU-4	03/12/2024	yes	0.8000	ND				
Cadmium, total	ug/L	GU-4	11/25/2024	yes	0.8000	ND				
Cadmium, total	ug/L	GU-4	03/24/2025		0.2000					
Cadmium, total	ug/L	GU-4	09/09/2025		0.2000	ND				
Chromium, total	ug/L	GU-4	08/30/2021	yes	8.0000	ND				
Chromium, total	ug/L	GU-4	09/14/2022	yes	8.0000	ND				
Chromium, total	ug/L	GU-4	03/20/2023	yes	8.0000	ND				
Chromium, total	ug/L	GU-4	09/12/2023	yes	8.0000	ND				

* - Outlier for that well and constituent.

** - Non-outlier detected sample Result and / or CUSUM value exceeds limit.

*** - ND value replaced with median RL.

**** - ND value replaced with manual RL.

ND = Not detected, Result = detection limit.

Table 2

Analytical Data and CUSUM Summary

Constituent	Units	Well	Date	Background	Result		Outlier	CUSUM	Adjusted	
Chromium, total	ug/L	GU-4	03/12/2024	yes	8.0000	ND				
Chromium, total	ug/L	GU-4	11/25/2024	yes	8.0000	ND				
Chromium, total	ug/L	GU-4	03/24/2025		7.6000					
Chromium, total	ug/L	GU-4	09/09/2025		1.0000	ND				
Cobalt, total	ug/L	GU-4	08/30/2021	yes	1.3000					
Cobalt, total	ug/L	GU-4	03/28/2022	yes	24.9000					
Cobalt, total	ug/L	GU-4	06/24/2022	yes	0.8000					
Cobalt, total	ug/L	GU-4	09/14/2022	yes	4.9000					
Cobalt, total	ug/L	GU-4	03/20/2023	yes	3.3000					
Cobalt, total	ug/L	GU-4	09/12/2023	yes	1.2000					
Cobalt, total	ug/L	GU-4	03/12/2024	yes	0.4000	ND				
Cobalt, total	ug/L	GU-4	11/25/2024	yes	0.6000					
Cobalt, total	ug/L	GU-4	03/24/2025		2.9000			4.6750		
Cobalt, total	ug/L	GU-4	09/09/2025		0.8000			4.6750		
Copper, total	ug/L	GU-4	08/30/2021	yes	4.0000	ND				
Copper, total	ug/L	GU-4	03/28/2022	yes	42.8000		yes			*
Copper, total	ug/L	GU-4	06/24/2022	yes	4.0000	ND				
Copper, total	ug/L	GU-4	09/14/2022	yes	4.0000	ND				
Copper, total	ug/L	GU-4	03/20/2023	yes	5.5000					
Copper, total	ug/L	GU-4	09/12/2023	yes	4.0000	ND				
Copper, total	ug/L	GU-4	03/12/2024	yes	4.0000	ND				
Copper, total	ug/L	GU-4	11/25/2024	yes	4.0000	ND				
Copper, total	ug/L	GU-4	03/24/2025		6.5000					
Copper, total	ug/L	GU-4	09/09/2025		5.0000	ND				
Lead, total	ug/L	GU-4	08/30/2021	yes	4.0000	ND				
Lead, total	ug/L	GU-4	03/28/2022	yes	22.5000		yes			*
Lead, total	ug/L	GU-4	06/24/2022	yes	4.0000	ND				
Lead, total	ug/L	GU-4	09/14/2022	yes	4.0000	ND				
Lead, total	ug/L	GU-4	03/20/2023	yes	4.0000	ND				
Lead, total	ug/L	GU-4	09/12/2023	yes	4.0000	ND				
Lead, total	ug/L	GU-4	03/12/2024	yes	4.0000	ND				
Lead, total	ug/L	GU-4	11/25/2024	yes	4.0000	ND				
Lead, total	ug/L	GU-4	03/24/2025		3.8000					
Lead, total	ug/L	GU-4	09/09/2025		1.0000	ND				
Nickel, total	ug/L	GU-4	08/30/2021	yes	4.0000	ND				
Nickel, total	ug/L	GU-4	03/28/2022	yes	93.2000					
Nickel, total	ug/L	GU-4	06/24/2022	yes	7.4000					
Nickel, total	ug/L	GU-4	09/14/2022	yes	4.3000					
Nickel, total	ug/L	GU-4	03/20/2023	yes	12.1000					
Nickel, total	ug/L	GU-4	09/12/2023	yes	4.4000					
Nickel, total	ug/L	GU-4	03/12/2024	yes	4.0000	ND				
Nickel, total	ug/L	GU-4	11/25/2024	yes	7.2000					
Nickel, total	ug/L	GU-4	03/24/2025		9.5000			17.0750		
Nickel, total	ug/L	GU-4	09/09/2025		5.0000	ND		17.0750		
Selenium, total	ug/L	GU-4	08/30/2021	yes	4.0000	ND				
Selenium, total	ug/L	GU-4	03/28/2022	yes	4.0000	ND				
Selenium, total	ug/L	GU-4	06/24/2022	yes	4.0000	ND				
Selenium, total	ug/L	GU-4	09/14/2022	yes	4.0000	ND				
Selenium, total	ug/L	GU-4	03/20/2023	yes	4.0000	ND				
Selenium, total	ug/L	GU-4	09/12/2023	yes	4.0000	ND				

* - Outlier for that well and constituent.

** - Non-outlier detected sample Result and / or CUSUM value exceeds limit.

*** - ND value replaced with median RL.

**** - ND value replaced with manual RL.

ND = Not detected, Result = detection limit.

Table 2

Analytical Data and CUSUM Summary

Constituent	Units	Well	Date	Background	Result		Outlier	CUSUM	Adjusted	
Selenium, total	ug/L	GU-4	03/12/2024	yes	4.0000	ND				
Selenium, total	ug/L	GU-4	11/25/2024	yes	4.0000	ND				
Selenium, total	ug/L	GU-4	03/24/2025		2.0000	ND				
Selenium, total	ug/L	GU-4	09/09/2025		2.0000	ND				
Silver, total	ug/L	GU-4	08/30/2021	yes	4.0000	ND				
Silver, total	ug/L	GU-4	09/14/2022	yes	4.0000	ND				
Silver, total	ug/L	GU-4	03/20/2023	yes	4.0000	ND				
Silver, total	ug/L	GU-4	09/12/2023	yes	4.0000	ND				
Silver, total	ug/L	GU-4	03/12/2024	yes	4.0000	ND				
Silver, total	ug/L	GU-4	11/25/2024	yes	4.0000	ND				
Silver, total	ug/L	GU-4	03/24/2025		5.0000	ND				
Silver, total	ug/L	GU-4	09/09/2025		5.0000	ND				
Thallium, total	ug/L	GU-4	08/30/2021	yes	2.0000	ND				
Thallium, total	ug/L	GU-4	09/14/2022	yes	2.0000	ND				
Thallium, total	ug/L	GU-4	03/20/2023	yes	2.0000	ND				
Thallium, total	ug/L	GU-4	09/12/2023	yes	2.0000	ND				
Thallium, total	ug/L	GU-4	03/12/2024	yes	2.0000	ND				
Thallium, total	ug/L	GU-4	11/25/2024	yes	2.0000	ND				
Thallium, total	ug/L	GU-4	03/24/2025		0.5000	ND				
Thallium, total	ug/L	GU-4	09/09/2025		0.5000	ND				
Vanadium, total	ug/L	GU-4	08/30/2021	yes	20.0000	ND	yes			*
Vanadium, total	ug/L	GU-4	03/28/2022	yes	69.3000					
Vanadium, total	ug/L	GU-4	06/24/2022	yes	20.0000	ND				
Vanadium, total	ug/L	GU-4	09/14/2022	yes	20.0000	ND				
Vanadium, total	ug/L	GU-4	03/20/2023	yes	20.0000	ND				
Vanadium, total	ug/L	GU-4	09/12/2023	yes	20.0000	ND				
Vanadium, total	ug/L	GU-4	03/12/2024	yes	20.0000	ND				
Vanadium, total	ug/L	GU-4	11/25/2024	yes	20.0000	ND				
Vanadium, total	ug/L	GU-4	03/24/2025		13.0000					
Vanadium, total	ug/L	GU-4	09/09/2025		2.0000	ND				
Zinc, total	ug/L	GU-4	08/30/2021	yes	131.0000	ND				
Zinc, total	ug/L	GU-4	03/28/2022	yes	1140.0000					
Zinc, total	ug/L	GU-4	06/24/2022	yes	61.3000					
Zinc, total	ug/L	GU-4	09/14/2022	yes	20.0000					
Zinc, total	ug/L	GU-4	03/20/2023	yes	131.0000					
Zinc, total	ug/L	GU-4	09/12/2023	yes	47.2000					
Zinc, total	ug/L	GU-4	03/12/2024	yes	70.7000					
Zinc, total	ug/L	GU-4	11/25/2024	yes	262.0000					
Zinc, total	ug/L	GU-4	03/24/2025		243.0000			232.9000		
Zinc, total	ug/L	GU-4	09/09/2025		34.1000			232.9000		

* - Outlier for that well and constituent.

** - Non-outlier detected sample Result and / or CUSUM value exceeds limit.

*** - ND value replaced with median RL.

**** - ND value replaced with manual RL.

ND = Not detected, Result = detection limit.

Table 4

Dixon's Test Outliers
1% Significance Level

Constituent	Units	Well	Date	Result	ND Qualifier	Date Range	N	Critical Value
Arsenic, total	ug/L	GU-4	03/28/2022	27.3000		08/30/2021-11/25/2024	8	0.6808
Copper, total	ug/L	GU-4	03/28/2022	42.8000		08/30/2021-11/25/2024	8	0.6808
Lead, total	ug/L	GU-4	03/28/2022	22.5000		08/30/2021-11/25/2024	8	0.6808
Vanadium, total	ug/L	GU-4	03/28/2022	69.3000		08/30/2021-11/25/2024	8	0.6808

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.

Attachment E

Summary Table of Historical VOC Detections

Table 1

Historical Volatile Organic Compound Detections

Constituent	Well	Date	Identifier	Result	Limit	Units
1,4-dichlorobenzene	GU-3	12/08/2024		1.2	1.0	ug/L
1,4-dichlorobenzene	GU-3	3/24/2025		1.1	1.0	ug/L
Benzene	GU-3	9/13/2021		1.3	1.0	ug/L
Benzene	GU-3	12/03/2021		6.0	1.0	ug/L
Benzene	GU-3	3/28/2022		6.2	1.0	ug/L
Benzene	GU-3	9/15/2022		6.1	1.0	ug/L
Benzene	GU-3	9/30/2024		6.0	1.0	ug/L
Benzene	GU-3	12/08/2024		7.8	1.0	ug/L
Benzene	GU-3	3/24/2025		7.8	1.0	ug/L
Chlorobenzene	GU-3	3/28/2022		1.8	1.0	ug/L
Chlorobenzene	GU-3	9/15/2022		1.7	1.0	ug/L
Chlorobenzene	GU-3	9/30/2024		1.3	1.0	ug/L
Chlorobenzene	GU-3	12/08/2024		1.8	1.0	ug/L
Chlorobenzene	GU-3	3/24/2025		1.6	1.0	ug/L
Chloroethane	GU-3	9/13/2021		1.4	1.0	ug/L
Chloroethane	GU-3	12/03/2021		2.0	1.0	ug/L
Chloroethane	GU-3	9/15/2022		1.6	1.0	ug/L
Chloroethane	GU-3	9/30/2024		1.1	1.0	ug/L
Chloroethane	GU-3	12/08/2024		1.1	1.0	ug/L
Chloroethane	GU-3	3/24/2025		1.1	1.0	ug/L
Cis-1,2-dichloroethylene	GU-3	9/13/2021		1.0	1.0	ug/L
Cis-1,2-dichloroethylene	GU-3	12/03/2021		10.5	1.0	ug/L
Cis-1,2-dichloroethylene	GU-3	9/15/2022		11.9	1.0	ug/L
Cis-1,2-dichloroethylene	GU-3	9/30/2024		4.3	1.0	ug/L
Cis-1,2-dichloroethylene	GU-3	12/08/2024		6.0	1.0	ug/L
Cis-1,2-dichloroethylene	GU-3	3/24/2025		3.8	1.0	ug/L
Ethylbenzene	GU-3	9/15/2022		1.8	1.0	ug/L
Vinyl chloride	GU-3	12/03/2021		3.6	1.0	ug/L
Vinyl chloride	GU-3	3/28/2022		3.0	1.0	ug/L
Vinyl chloride	GU-3	9/15/2022		1.9	1.0	ug/L
Vinyl chloride	GU-3	9/30/2024		1.2	1.0	ug/L
Vinyl chloride	GU-3	12/08/2024		1.8	1.0	ug/L
Vinyl chloride	GU-3	3/24/2025		1.4	1.0	ug/L
Benzene	GU-4	3/28/2022		1.4	1.0	ug/L
Toluene	GU-4	9/14/2022		1.9	1.0	ug/L
Acetone	GWD-2	3/14/2008		35.5	10.0	ug/L
Benzene	GWD-2	3/14/2008		1.3	1.0	ug/L
Benzene	GWD-2	7/22/2008		1.1	1.0	ug/L
Benzene	GWD-2	9/12/2008		1.2	1.0	ug/L
Benzene	GWD-2	12/18/2008		1.1	1.0	ug/L
Benzene	GWD-2	3/04/2009		1.3	1.0	ug/L
Benzene	GWD-2	9/21/2010		1.6	1.0	ug/L
Bis(2-ethylhexyl) phthalate	GWD-2	10/01/2010		9	8	ug/L
Chloroethane	GWD-2	3/14/2008		1.2	1.0	ug/L
Chloroethane	GWD-2	7/22/2008		1.2	1.0	ug/L
Chloroethane	GWD-2	9/12/2008		1.3	1.0	ug/L
Chloroethane	GWD-2	12/18/2008		1.1	1.0	ug/L
Chloroethane	GWD-2	3/04/2009		1.1	1.0	ug/L
Chloroethane	GWD-2	7/01/2009		1.0	1.0	ug/L
Chloroethane	GWD-2	9/27/2009		2.2	1.0	ug/L
Chloroethane	GWD-2	3/24/2010		4.2	1.0	ug/L
Chloroethane	GWD-2	6/02/2010		7.5	1.0	ug/L
Chloroethane	GWD-2	7/15/2010		5.9	1.0	ug/L

Detections are shown for the constituents and sample points selected for the analysis
The Limit column refers to the laboratory reporting limit

Table 1

Historical Volatile Organic Compound Detections

Constituent	Well	Date	Identifier	Result	Limit	Units
Chloroethane	GWD-2	9/21/2010		24.8	1.0	ug/L
Vinyl chloride	GWD-2	3/14/2008		1.6	1.0	ug/L
Vinyl chloride	GWD-2	6/03/2008		1.0	1.0	ug/L
Vinyl chloride	GWD-2	7/22/2008		1.4	1.0	ug/L
Vinyl chloride	GWD-2	9/12/2008		1.5	1.0	ug/L
Vinyl chloride	GWD-2	12/18/2008		2.2	1.0	ug/L
Vinyl chloride	GWD-2	3/04/2009		2.1	1.0	ug/L
Vinyl chloride	GWD-2	5/05/2009		1.2	1.0	ug/L
Vinyl chloride	GWD-2	7/01/2009		1.1	1.0	ug/L
Vinyl chloride	GWD-2	9/27/2009		1.9	1.0	ug/L
Carbon disulfide	MW02-30A	6/07/2016		1.7	1.0	ug/L
2,4,6-tribromophenol	MW06-37	7/23/2008		96.8	8.0	ug/L
2,4,6-tribromophenol	MW06-37	9/12/2008		93.1	8.0	ug/L
2,4,6-tribromophenol	MW06-37	12/11/2008		83.5	8.0	ug/L
2,4,6-tribromophenol	MW06-38	7/23/2008		83.2	8.0	ug/L
2,4,6-tribromophenol	MW06-38	9/12/2008		93.7	8.0	ug/L
2,4,6-tribromophenol	MW06-38	12/11/2008		85.8	8.0	ug/L
2,4,6-tribromophenol	MW06-39	7/23/2008		78.9	8.0	ug/L
2,4,6-tribromophenol	MW06-39	9/12/2008		100.0	8.0	ug/L
2,4,6-tribromophenol	MW06-39	12/11/2008		92.0	8.0	ug/L
Bis(2-ethylhexyl) phthalate	MW09-42	9/24/2018		7	6	ug/L
Acetone	MW91-8	9/19/2017		12.4	10.0	ug/L
Trans-1,4-dichloro-2-butene	MW91-8	3/16/2016		33	5	ug/L
1,1,1-trichloroethane	MW94-18	12/23/1994		2	1	ug/L
1,1,1-trichloroethane	MW94-18	3/17/1995		2	1	ug/L
1,1-dichloroethane	MW96-23	9/27/2013		1.3	1.0	ug/L
Bis(2-ethylhexyl) phthalate	MW96-23	3/07/2012		10	8	ug/L
1,1-dichloroethane	MW98-25	9/04/2020		1.1	1.0	ug/L
1,1-dichloroethane	MW98-25	3/09/2021		1.8	1.0	ug/L
1,1-dichloroethane	MW98-25	9/07/2021		2.3	1.0	ug/L
1,1-dichloroethane	MW98-25	3/28/2022		1.5	1.0	ug/L
1,1-dichloroethane	MW98-25	3/20/2023		1.7	1.0	ug/L
1,1-dichloroethane	MW98-25	9/12/2023		1.6	1.0	ug/L
1,1-dichloroethane	MW98-25	3/12/2024		1.1	1.0	ug/L
1,1-dichloroethane	MW98-25	9/30/2024		1.2	1.0	ug/L
1,1-dichloroethane	MW98-25	3/24/2025		1.0	1.0	ug/L
1,1-dichloroethane	MW98-25	9/09/2025		1.0	1.0	ug/L
1,4-dichlorobenzene	MW98-25	9/20/2007		1.4	1.0	ug/L
1,4-dichlorobenzene	MW98-25	6/04/2008		1.4	1.0	ug/L
1,4-dichlorobenzene	MW98-25	7/23/2008		1.3	1.0	ug/L
1,4-dichlorobenzene	MW98-25	9/12/2008		1.3	1.0	ug/L
1,4-dichlorobenzene	MW98-25	12/11/2008		1.4	1.0	ug/L
1,4-dichlorobenzene	MW98-25	3/04/2009		1.1	1.0	ug/L
1,4-dichlorobenzene	MW98-25	3/04/2009		1.4	1.0	ug/L
1,4-dichlorobenzene	MW98-25	9/20/2009		1.7	1.0	ug/L
1,4-dichlorobenzene	MW98-25	3/26/2010		2.1	1.0	ug/L
1,4-dichlorobenzene	MW98-25	9/24/2010		2.6	1.0	ug/L
1,4-dichlorobenzene	MW98-25	9/14/2011		1.3	1.0	ug/L
1,4-dichlorobenzene	MW98-25	3/07/2012		1.8	1.0	ug/L
1,4-dichlorobenzene	MW98-25	9/08/2016		2.1	1.0	ug/L
1,4-dichlorobenzene	MW98-25	3/18/2017		2.0	1.0	ug/L
1,4-dichlorobenzene	MW98-25	9/19/2017		1.7	1.0	ug/L
1,4-dichlorobenzene	MW98-25	9/24/2018		2.9	1.0	ug/L

Detections are shown for the constituents and sample points selected for the analysis
The Limit column refers to the laboratory reporting limit

Table 1

Historical Volatile Organic Compound Detections

Constituent	Well	Date	Identifier	Result	Limit	Units
1,4-dichlorobenzene	MW98-25	9/04/2020		1.3	1.0	ug/L
1,4-dichlorobenzene	MW98-25	3/09/2021		1.1	1.0	ug/L
1,4-dichlorobenzene	MW98-25	9/07/2021		2.0	1.0	ug/L
1,4-dichlorobenzene	MW98-25	3/28/2022		1.2	1.0	ug/L
1,4-dichlorobenzene	MW98-25	3/20/2023		1.2	1.0	ug/L
1,4-dichlorobenzene	MW98-25	9/12/2023		2.4	1.0	ug/L
1,4-dichlorobenzene	MW98-25	3/12/2024		1.6	1.0	ug/L
1,4-dichlorobenzene	MW98-25	9/30/2024		1.8	1.0	ug/L
1,4-dichlorobenzene	MW98-25	3/24/2025		1.4	1.0	ug/L
1,4-dichlorobenzene	MW98-25	9/09/2025		2.7	1.0	ug/L
2,4,6-tribromophenol	MW98-25	7/23/2008		105.0	8.0	ug/L
2,4,6-tribromophenol	MW98-25	9/12/2008		120.0	8.0	ug/L
2,4,6-tribromophenol	MW98-25	12/11/2008		97.1	8.0	ug/L
Acetone	MW98-25	6/04/2008		12.1	10.0	ug/L
Acetone	MW98-25	3/30/2011		54.0	10.0	ug/L
Acetone	MW98-25	3/07/2012		14.8	10.0	ug/L
Acetone	MW98-25	3/08/2018		46.5	10.0	ug/L
Benzene	MW98-25	3/09/2004		4.2	1.0	ug/L
Benzene	MW98-25	9/14/2004		3.3	1.0	ug/L
Benzene	MW98-25	3/30/2006		2.5	1.0	ug/L
Benzene	MW98-25	9/15/2006		2.0	1.0	ug/L
Benzene	MW98-25	9/20/2007		2.4	1.0	ug/L
Benzene	MW98-25	3/17/2008		6.0	1.0	ug/L
Benzene	MW98-25	6/04/2008		8.9	1.0	ug/L
Benzene	MW98-25	7/23/2008		5.5	1.0	ug/L
Benzene	MW98-25	9/12/2008		5.0	1.0	ug/L
Benzene	MW98-25	12/11/2008		7.6	1.0	ug/L
Benzene	MW98-25	3/04/2009		6.4	1.0	ug/L
Benzene	MW98-25	3/04/2009		6.5	1.0	ug/L
Benzene	MW98-25	9/20/2009		6.1	1.0	ug/L
Benzene	MW98-25	3/26/2010		6.4	1.0	ug/L
Benzene	MW98-25	9/24/2010		5.6	1.0	ug/L
Benzene	MW98-25	3/30/2011		4.7	1.0	ug/L
Benzene	MW98-25	9/14/2011		4.0	1.0	ug/L
Benzene	MW98-25	3/07/2012		5.8	1.0	ug/L
Benzene	MW98-25	9/27/2013		1.6	1.0	ug/L
Benzene	MW98-25	3/13/2014		1.0	1.0	ug/L
Benzene	MW98-25	9/18/2014		5.6	1.0	ug/L
Benzene	MW98-25	9/11/2015		1.3	1.0	ug/L
Benzene	MW98-25	9/08/2016		1.4	1.0	ug/L
Benzene	MW98-25	3/08/2018		1.9	1.0	ug/L
Benzene	MW98-25	3/09/2021		1.6	1.0	ug/L
Benzene	MW98-25	9/07/2021		2.7	1.0	ug/L
Benzene	MW98-25	3/28/2022		1.3	1.0	ug/L
Benzene	MW98-25	9/12/2023		1.4	1.0	ug/L
Benzene	MW98-25	9/09/2025		1.4	1.0	ug/L
Beta-bhc	MW98-25	9/12/2008		.14	.05	ug/L
Beta-bhc	MW98-25	3/13/2014		.07	.05	ug/L
Bis(2-ethylhexyl) phthalate	MW98-25	12/11/2008		13	8	ug/L
Bis(2-ethylhexyl) phthalate	MW98-25	9/27/2013		10	10	ug/L
Bis(2-ethylhexyl) phthalate	MW98-25	9/19/2017		6	6	ug/L
Chlorobenzene	MW98-25	3/17/2008		1.1	1.0	ug/L
Chlorobenzene	MW98-25	6/04/2008		2.8	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
Chlorobenzene	MW98-25	7/23/2008		2.2	1.0	ug/L
Chlorobenzene	MW98-25	9/12/2008		2.4	1.0	ug/L
Chlorobenzene	MW98-25	12/11/2008		2.3	1.0	ug/L
Chlorobenzene	MW98-25	3/04/2009		1.9	1.0	ug/L
Chlorobenzene	MW98-25	3/04/2009		1.8	1.0	ug/L
Chlorobenzene	MW98-25	3/26/2010		1.4	1.0	ug/L
Chlorobenzene	MW98-25	9/24/2010		2.1	1.0	ug/L
Chlorobenzene	MW98-25	9/14/2011		1.2	1.0	ug/L
Chlorobenzene	MW98-25	3/07/2012		1.3	1.0	ug/L
Chlorobenzene	MW98-25	9/18/2014		1.3	1.0	ug/L
Chlorobenzene	MW98-25	9/07/2021		1.0	1.0	ug/L
Chlorobenzene	MW98-25	9/12/2023		1.3	1.0	ug/L
Chlorobenzene	MW98-25	9/30/2024		1.0	1.0	ug/L
Chlorobenzene	MW98-25	9/09/2025		1.4	1.0	ug/L
Chloroethane	MW98-25	3/17/2008		4.2	1.0	ug/L
Chloroethane	MW98-25	6/04/2008		2.5	1.0	ug/L
Chloroethane	MW98-25	7/23/2008		2.1	1.0	ug/L
Chloroethane	MW98-25	9/12/2008		2.3	1.0	ug/L
Chloroethane	MW98-25	12/11/2008		2.2	1.0	ug/L
Chloroethane	MW98-25	3/04/2009		2.4	1.0	ug/L
Chloroethane	MW98-25	3/04/2009		2.5	1.0	ug/L
Chloroethane	MW98-25	9/20/2009		1.8	1.0	ug/L
Chloroethane	MW98-25	3/26/2010		2.0	1.0	ug/L
Chloroethane	MW98-25	9/24/2010		2.2	1.0	ug/L
Chloroethane	MW98-25	3/30/2011		1.2	1.0	ug/L
Chloroethane	MW98-25	9/14/2011		1.9	1.0	ug/L
Chloroethane	MW98-25	3/07/2012		2.2	1.0	ug/L
Chloroethane	MW98-25	9/12/2012		1.8	1.0	ug/L
Chloroethane	MW98-25	9/27/2013		1.9	1.0	ug/L
Chloroethane	MW98-25	3/13/2014		2.0	1.0	ug/L
Chloroethane	MW98-25	3/16/2016		1.9	1.0	ug/L
Chloroethane	MW98-25	9/08/2016		1.0	1.0	ug/L
Chloroethane	MW98-25	3/08/2018		1.1	1.0	ug/L
Chloroethane	MW98-25	9/07/2021		1.5	1.0	ug/L
Chloroethane	MW98-25	3/20/2023		1.7	1.0	ug/L
Chloroethane	MW98-25	9/12/2023		1.5	1.0	ug/L
Chloroethane	MW98-25	3/12/2024		1.4	1.0	ug/L
Chloroethane	MW98-25	9/30/2024		1.0	1.0	ug/L
Chloroethane	MW98-25	9/09/2025		1.4	1.0	ug/L
Chloromethane	MW98-25	9/30/2024		1.8	1.0	ug/L
Cis-1,2-dichloroethylene	MW98-25	3/17/2008		8.9	1.0	ug/L
Cis-1,2-dichloroethylene	MW98-25	6/04/2008		6.1	1.0	ug/L
Cis-1,2-dichloroethylene	MW98-25	7/23/2008		6.2	1.0	ug/L
Cis-1,2-dichloroethylene	MW98-25	9/12/2008		6.9	1.0	ug/L
Cis-1,2-dichloroethylene	MW98-25	12/11/2008		5.4	1.0	ug/L
Cis-1,2-dichloroethylene	MW98-25	3/04/2009		5.0	1.0	ug/L
Cis-1,2-dichloroethylene	MW98-25	3/04/2009		5.2	1.0	ug/L
Cis-1,2-dichloroethylene	MW98-25	9/20/2009		5.8	1.0	ug/L
Cis-1,2-dichloroethylene	MW98-25	3/26/2010		4.6	1.0	ug/L
Cis-1,2-dichloroethylene	MW98-25	9/24/2010		7.0	1.0	ug/L
Cis-1,2-dichloroethylene	MW98-25	3/30/2011		6.4	1.0	ug/L
Cis-1,2-dichloroethylene	MW98-25	9/14/2011		6.1	1.0	ug/L
Cis-1,2-dichloroethylene	MW98-25	3/07/2012		6.7	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
Cis-1,2-dichloroethylene	MW98-25	9/12/2012		3.4	1.0	ug/L
Cis-1,2-dichloroethylene	MW98-25	3/20/2013		2.9	1.0	ug/L
Cis-1,2-dichloroethylene	MW98-25	9/27/2013		4.1	1.0	ug/L
Cis-1,2-dichloroethylene	MW98-25	3/13/2014		4.8	1.0	ug/L
Cis-1,2-dichloroethylene	MW98-25	9/18/2014		4.5	1.0	ug/L
Cis-1,2-dichloroethylene	MW98-25	3/17/2015		5.1	1.0	ug/L
Cis-1,2-dichloroethylene	MW98-25	9/11/2015		1.4	1.0	ug/L
Cis-1,2-dichloroethylene	MW98-25	3/16/2016		5.1	1.0	ug/L
Cis-1,2-dichloroethylene	MW98-25	9/08/2016		2.9	1.0	ug/L
Cis-1,2-dichloroethylene	MW98-25	3/18/2017		2.1	1.0	ug/L
Cis-1,2-dichloroethylene	MW98-25	9/19/2017		1.3	1.0	ug/L
Cis-1,2-dichloroethylene	MW98-25	3/08/2018		2.5	1.0	ug/L
Cis-1,2-dichloroethylene	MW98-25	9/24/2018		2.3	1.0	ug/L
Cis-1,2-dichloroethylene	MW98-25	3/25/2019		1.0	1.0	ug/L
Cis-1,2-dichloroethylene	MW98-25	9/04/2020		2.0	1.0	ug/L
Cis-1,2-dichloroethylene	MW98-25	3/09/2021		2.5	1.0	ug/L
Cis-1,2-dichloroethylene	MW98-25	9/07/2021		3.4	1.0	ug/L
Cis-1,2-dichloroethylene	MW98-25	3/28/2022		2.5	1.0	ug/L
Cis-1,2-dichloroethylene	MW98-25	3/20/2023		2.3	1.0	ug/L
Cis-1,2-dichloroethylene	MW98-25	9/12/2023		2.8	1.0	ug/L
Cis-1,2-dichloroethylene	MW98-25	3/12/2024		1.4	1.0	ug/L
Cis-1,2-dichloroethylene	MW98-25	9/30/2024		2.0	1.0	ug/L
Cis-1,2-dichloroethylene	MW98-25	3/24/2025		1.5	1.0	ug/L
Cis-1,2-dichloroethylene	MW98-25	9/09/2025		2.4	1.0	ug/L
Dichlorodifluoromethane	MW98-25	7/23/2008		6.2	1.0	ug/L
Dichlorodifluoromethane	MW98-25	9/12/2008		2.6	1.0	ug/L
Dichlorodifluoromethane	MW98-25	3/04/2009		21.6	1.0	ug/L
Dichlorodifluoromethane	MW98-25	9/27/2009		16.6	1.0	ug/L
Dichlorodifluoromethane	MW98-25	3/26/2010		34.6	1.0	ug/L
Dichlorodifluoromethane	MW98-25	9/24/2010		28.2	1.0	ug/L
Dichlorodifluoromethane	MW98-25	3/30/2011		32.0	1.0	ug/L
Dichlorodifluoromethane	MW98-25	9/14/2011		12.6	1.0	ug/L
Dichlorodifluoromethane	MW98-25	3/07/2012		34.5	1.0	ug/L
Dichlorodifluoromethane	MW98-25	9/12/2012		4.2	1.0	ug/L
Dichlorodifluoromethane	MW98-25	3/20/2013		13.0	1.0	ug/L
Dichlorodifluoromethane	MW98-25	9/27/2013		1.3	1.0	ug/L
Dichlorodifluoromethane	MW98-25	3/13/2014		1.5	1.0	ug/L
Dichlorodifluoromethane	MW98-25	9/18/2014		24.3	1.0	ug/L
Dichlorodifluoromethane	MW98-25	9/11/2015		14.7	1.0	ug/L
Dichlorodifluoromethane	MW98-25	9/08/2016		6.6	1.0	ug/L
Dichlorodifluoromethane	MW98-25	3/18/2017		18.8	1.0	ug/L
Dichlorodifluoromethane	MW98-25	9/19/2017		6.9	1.0	ug/L
Dichlorodifluoromethane	MW98-25	3/08/2018		38.4	1.0	ug/L
Dichlorodifluoromethane	MW98-25	9/24/2018		1.6	1.0	ug/L
Dichlorodifluoromethane	MW98-25	3/25/2019		3.8	1.0	ug/L
Dichlorodifluoromethane	MW98-25	3/23/2020		19.4	1.0	ug/L
Dichlorodifluoromethane	MW98-25	9/04/2020		1.2	1.0	ug/L
Dichlorodifluoromethane	MW98-25	3/09/2021		8.6	1.0	ug/L
Dichlorodifluoromethane	MW98-25	9/07/2021		4.8	1.0	ug/L
Dichlorodifluoromethane	MW98-25	3/28/2022		1.7	1.0	ug/L
Dichlorodifluoromethane	MW98-25	3/20/2023		3.3	1.0	ug/L
Dichlorodifluoromethane	MW98-25	9/12/2023		2.1	1.0	ug/L
Dichlorodifluoromethane	MW98-25	3/24/2025		2.0	1.0	ug/L

Detections are shown for the constituents and sample points selected for the analysis
The Limit column refers to the laboratory reporting limit

Table 1

Historical Volatile Organic Compound Detections

Constituent	Well	Date	Identifier	Result	Limit	Units
Ethylbenzene	MW98-25	6/04/2008		2.2	1.0	ug/L
Ethylbenzene	MW98-25	12/11/2008		1.8	1.0	ug/L
Ethylbenzene	MW98-25	9/20/2009		1.2	1.0	ug/L
Ethylbenzene	MW98-25	3/26/2010		2.6	1.0	ug/L
Toluene	MW98-25	6/04/2008		1.2	1.0	ug/L
Toluene	MW98-25	3/26/2010		1.2	1.0	ug/L
Toluene	MW98-25	9/24/2010		1.3	1.0	ug/L
Trichloroethylene	MW98-25	6/04/2008		1.2	1.0	ug/L
Trichlorofluoromethane	MW98-25	6/04/2008		28.7	1.0	ug/L
Trichlorofluoromethane	MW98-25	9/12/2008		2.4	1.0	ug/L
Trichlorofluoromethane	MW98-25	3/04/2009		16.0	1.0	ug/L
Trichlorofluoromethane	MW98-25	3/04/2009		16.4	1.0	ug/L
Trichlorofluoromethane	MW98-25	3/26/2010		27.0	1.0	ug/L
Trichlorofluoromethane	MW98-25	9/24/2010		12.1	1.0	ug/L
Trichlorofluoromethane	MW98-25	3/30/2011		19.3	1.0	ug/L
Trichlorofluoromethane	MW98-25	9/14/2011		5.0	1.0	ug/L
Trichlorofluoromethane	MW98-25	3/07/2012		16.4	1.0	ug/L
Trichlorofluoromethane	MW98-25	9/12/2012		1.0	1.0	ug/L
Trichlorofluoromethane	MW98-25	3/20/2013		6.2	1.0	ug/L
Trichlorofluoromethane	MW98-25	9/27/2013		1.9	1.0	ug/L
Trichlorofluoromethane	MW98-25	9/18/2014		3.2	1.0	ug/L
Trichlorofluoromethane	MW98-25	9/08/2016		4.4	1.0	ug/L
Trichlorofluoromethane	MW98-25	3/18/2017		4.3	1.0	ug/L
Trichlorofluoromethane	MW98-25	9/19/2017		1.6	1.0	ug/L
Trichlorofluoromethane	MW98-25	3/08/2018		2.5	1.0	ug/L
Trichlorofluoromethane	MW98-25	3/23/2020		6.0	1.0	ug/L
Trichlorofluoromethane	MW98-25	9/04/2020		1.0	1.0	ug/L
Trichlorofluoromethane	MW98-25	3/09/2021		2.6	1.0	ug/L
Trichlorofluoromethane	MW98-25	3/28/2022		1.0	1.0	ug/L
Trichlorofluoromethane	MW98-25	3/20/2023		1.2	1.0	ug/L
Trichlorofluoromethane	MW98-25	9/12/2023		1.1	1.0	ug/L
Trichlorofluoromethane	MW98-25	3/12/2024		1.0	1.0	ug/L
Vinyl chloride	MW98-25	3/17/2008		2.8	1.0	ug/L
Vinyl chloride	MW98-25	6/04/2008		2.8	1.0	ug/L
Vinyl chloride	MW98-25	7/23/2008		1.9	1.0	ug/L
Vinyl chloride	MW98-25	12/11/2008		2.4	1.0	ug/L
Vinyl chloride	MW98-25	3/04/2009		2.5	1.0	ug/L
Vinyl chloride	MW98-25	3/04/2009		2.3	1.0	ug/L
Vinyl chloride	MW98-25	3/26/2010		1.6	1.0	ug/L
Vinyl chloride	MW98-25	9/24/2010		1.7	1.0	ug/L
Vinyl chloride	MW98-25	3/30/2011		1.5	1.0	ug/L
Vinyl chloride	MW98-25	9/14/2011		1.0	1.0	ug/L
Vinyl chloride	MW98-25	3/07/2012		1.4	1.0	ug/L
Xylenes, total	MW98-25	6/04/2008		5.5	2.0	ug/L
Xylenes, total	MW98-25	7/23/2008		2.5	2.0	ug/L
2-butanone (mek)	PEC-3	12/08/2024		606	20	ug/L
Acetone	PEC-3	12/08/2024		508	20	ug/L
Benzene	PEC-3	3/28/2022		1.5	1.0	ug/L
Cis-1,2-dichloroethylene	PEC-3	3/28/2022		3.2	1.0	ug/L
Cis-1,2-dichloroethylene	PEC-3	3/24/2025		1.4	1.0	ug/L
Toluene	PEC-3	12/08/2024		2	2	ug/L
1,1-dichloroethane	Sramp 1	9/21/2009		1.1	1.0	ug/L
1,1-dichloroethane	Sramp 1	3/30/2011		1.0	1.0	ug/L

Detections are shown for the constituents and sample points selected for the analysis
The Limit column refers to the laboratory reporting limit

Table 1

Historical Volatile Organic Compound Detections

Constituent	Well	Date	Identifier	Result	Limit	Units
1,1-dichloroethane	Sramp 1	3/09/2021		2.6	1.0	ug/L
1,1-dichloroethane	Sramp 1	3/28/2022		1.4	1.0	ug/L
1,1-dichloroethane	Sramp 1	3/20/2023		1.4	1.0	ug/L
1,1-dichloroethylene	Sramp 1	12/12/2008		1	1	ug/L
1,2,4-trichlorobenzene	Sramp 1	9/21/2009		5.2	1.0	ug/L
1,4-dichlorobenzene	Sramp 1	7/21/2008		1.8	1.0	ug/L
1,4-dichlorobenzene	Sramp 1	9/12/2008		1.8	1.0	ug/L
1,4-dichlorobenzene	Sramp 1	12/12/2008		1.6	1.0	ug/L
1,4-dichlorobenzene	Sramp 1	3/04/2009		1.4	1.0	ug/L
1,4-dichlorobenzene	Sramp 1	9/21/2009		2.8	1.0	ug/L
1,4-dichlorobenzene	Sramp 1	9/24/2010		3.4	1.0	ug/L
1,4-dichlorobenzene	Sramp 1	3/30/2011		3.5	1.0	ug/L
1,4-dichlorobenzene	Sramp 1	9/14/2011		2.7	1.0	ug/L
1,4-dichlorobenzene	Sramp 1	3/07/2012		1.3	1.0	ug/L
1,4-dichlorobenzene	Sramp 1	3/20/2013		4.0	1.0	ug/L
1,4-dichlorobenzene	Sramp 1	9/26/2013		3.3	1.0	ug/L
1,4-dichlorobenzene	Sramp 1	3/17/2015		2.2	1.0	ug/L
1,4-dichlorobenzene	Sramp 1	9/11/2015		6.4	1.0	ug/L
1,4-dichlorobenzene	Sramp 1	3/16/2016		3.9	1.0	ug/L
1,4-dichlorobenzene	Sramp 1	9/08/2016		4.6	1.0	ug/L
1,4-dichlorobenzene	Sramp 1	3/18/2017		2.7	1.0	ug/L
1,4-dichlorobenzene	Sramp 1	3/09/2021		5.8	1.0	ug/L
1,4-dichlorobenzene	Sramp 1	3/28/2022		5.0	1.0	ug/L
1,4-dichlorobenzene	Sramp 1	3/20/2023		6.5	1.0	ug/L
1,4-dichlorobenzene	Sramp 1	3/24/2025		9.1	1.0	ug/L
Acetone	Sramp 1	3/30/2011		40.1	10.0	ug/L
Acetone	Sramp 1	3/16/2016		82.1	10.0	ug/L
Acetone	Sramp 1	3/25/2019		19.3	10.0	ug/L
Acetone	Sramp 1	3/28/2022		23.5	10.0	ug/L
Benzene	Sramp 1	7/21/2008		4.7	1.0	ug/L
Benzene	Sramp 1	9/12/2008		3.6	1.0	ug/L
Benzene	Sramp 1	3/04/2009		1.3	1.0	ug/L
Benzene	Sramp 1	9/21/2009		7.6	1.0	ug/L
Benzene	Sramp 1	9/24/2010		4.2	1.0	ug/L
Benzene	Sramp 1	3/30/2011		5.8	1.0	ug/L
Benzene	Sramp 1	3/20/2013		3.5	1.0	ug/L
Benzene	Sramp 1	9/26/2013		6.0	1.0	ug/L
Benzene	Sramp 1	3/17/2015		2.6	1.0	ug/L
Benzene	Sramp 1	9/11/2015		6.2	1.0	ug/L
Benzene	Sramp 1	3/16/2016		5.0	1.0	ug/L
Benzene	Sramp 1	9/08/2016		2.2	1.0	ug/L
Benzene	Sramp 1	3/18/2017		2.0	1.0	ug/L
Benzene	Sramp 1	3/25/2019		1.2	1.0	ug/L
Benzene	Sramp 1	9/03/2019		1.2	1.0	ug/L
Benzene	Sramp 1	3/09/2021		5.7	1.0	ug/L
Benzene	Sramp 1	3/28/2022		4.8	1.0	ug/L
Benzene	Sramp 1	3/20/2023		5.7	1.0	ug/L
Benzene	Sramp 1	3/24/2025		5.6	1.0	ug/L
Chlorobenzene	Sramp 1	7/21/2008		1.6	1.0	ug/L
Chlorobenzene	Sramp 1	9/12/2008		1.8	1.0	ug/L
Chlorobenzene	Sramp 1	9/21/2009		2.8	1.0	ug/L
Chlorobenzene	Sramp 1	9/24/2010		1.5	1.0	ug/L
Chlorobenzene	Sramp 1	3/30/2011		1.5	1.0	ug/L

Detections are shown for the constituents and sample points selected for the analysis
The Limit column refers to the laboratory reporting limit

Table 1

Historical Volatile Organic Compound Detections

Constituent	Well	Date	Identifier	Result	Limit	Units
Chlorobenzene	Sramp 1	3/20/2013		1.1	1.0	ug/L
Chlorobenzene	Sramp 1	9/26/2013		2.1	1.0	ug/L
Chlorobenzene	Sramp 1	9/11/2015		2.4	1.0	ug/L
Chlorobenzene	Sramp 1	3/16/2016		1.9	1.0	ug/L
Chlorobenzene	Sramp 1	9/08/2016		1.4	1.0	ug/L
Chlorobenzene	Sramp 1	3/18/2017		1.1	1.0	ug/L
Chlorobenzene	Sramp 1	3/25/2019		1.5	1.0	ug/L
Chlorobenzene	Sramp 1	3/09/2021		1.7	1.0	ug/L
Chlorobenzene	Sramp 1	3/28/2022		1.4	1.0	ug/L
Chlorobenzene	Sramp 1	3/20/2023		1.7	1.0	ug/L
Chlorobenzene	Sramp 1	3/24/2025		2.4	1.0	ug/L
Chloroethane	Sramp 1	7/21/2008		1.5	1.0	ug/L
Chloroethane	Sramp 1	9/12/2008		1.0	1.0	ug/L
Chloroethane	Sramp 1	3/04/2009		1.4	1.0	ug/L
Chloroethane	Sramp 1	9/21/2009		1.4	1.0	ug/L
Chloroethane	Sramp 1	3/30/2011		1.3	1.0	ug/L
Chloroethane	Sramp 1	9/14/2011		1.2	1.0	ug/L
Chloroethane	Sramp 1	9/26/2013		2.2	1.0	ug/L
Chloroethane	Sramp 1	9/11/2015		1.4	1.0	ug/L
Chloroethane	Sramp 1	3/16/2016		1.9	1.0	ug/L
Chloroethane	Sramp 1	9/08/2016		2.0	1.0	ug/L
Chloroethane	Sramp 1	3/18/2017		1.6	1.0	ug/L
Chloroethane	Sramp 1	3/25/2019		2.6	1.0	ug/L
Chloroethane	Sramp 1	9/03/2019		2.5	1.0	ug/L
Chloroethane	Sramp 1	3/09/2021		2.6	1.0	ug/L
Chloroethane	Sramp 1	3/28/2022		1.6	1.0	ug/L
Chloroethane	Sramp 1	3/20/2023		2.0	1.0	ug/L
Chloroethane	Sramp 1	3/24/2025		1.6	1.0	ug/L
Cis-1,2-dichloroethylene	Sramp 1	7/21/2008		3.1	1.0	ug/L
Cis-1,2-dichloroethylene	Sramp 1	9/12/2008		2.5	1.0	ug/L
Cis-1,2-dichloroethylene	Sramp 1	12/12/2008		1.7	1.0	ug/L
Cis-1,2-dichloroethylene	Sramp 1	3/04/2009		1.8	1.0	ug/L
Cis-1,2-dichloroethylene	Sramp 1	9/21/2009		2.9	1.0	ug/L
Cis-1,2-dichloroethylene	Sramp 1	9/24/2010		2.3	1.0	ug/L
Cis-1,2-dichloroethylene	Sramp 1	3/30/2011		3.6	1.0	ug/L
Cis-1,2-dichloroethylene	Sramp 1	9/14/2011		2.4	1.0	ug/L
Cis-1,2-dichloroethylene	Sramp 1	3/20/2013		2.3	1.0	ug/L
Cis-1,2-dichloroethylene	Sramp 1	9/26/2013		3.3	1.0	ug/L
Cis-1,2-dichloroethylene	Sramp 1	3/17/2015		1.4	1.0	ug/L
Cis-1,2-dichloroethylene	Sramp 1	9/11/2015		2.7	1.0	ug/L
Cis-1,2-dichloroethylene	Sramp 1	3/16/2016		2.5	1.0	ug/L
Cis-1,2-dichloroethylene	Sramp 1	9/08/2016		2.8	1.0	ug/L
Cis-1,2-dichloroethylene	Sramp 1	3/18/2017		2.1	1.0	ug/L
Cis-1,2-dichloroethylene	Sramp 1	3/25/2019		4.0	1.0	ug/L
Cis-1,2-dichloroethylene	Sramp 1	9/03/2019		2.4	1.0	ug/L
Cis-1,2-dichloroethylene	Sramp 1	3/09/2021		4.4	1.0	ug/L
Cis-1,2-dichloroethylene	Sramp 1	3/28/2022		3.0	1.0	ug/L
Cis-1,2-dichloroethylene	Sramp 1	3/20/2023		3.0	1.0	ug/L
Cis-1,2-dichloroethylene	Sramp 1	3/24/2025		2.5	1.0	ug/L
Dichlorodifluoromethane	Sramp 1	9/21/2009		20.4	1.0	ug/L
Dichlorodifluoromethane	Sramp 1	9/24/2010		7.6	1.0	ug/L
Dichlorodifluoromethane	Sramp 1	3/07/2012		1.1	1.0	ug/L
Dichlorodifluoromethane	Sramp 1	9/12/2012		2.2	1.0	ug/L

Detections are shown for the constituents and sample points selected for the analysis
The Limit column refers to the laboratory reporting limit

Table 1

Historical Volatile Organic Compound Detections

Constituent	Well	Date	Identifier	Result	Limit	Units
Dichlorodifluoromethane	Sramp 1	3/20/2013		9.5	1.0	ug/L
Dichlorodifluoromethane	Sramp 1	9/26/2013		20.3	1.0	ug/L
Dichlorodifluoromethane	Sramp 1	3/17/2015		16.7	1.0	ug/L
Dichlorodifluoromethane	Sramp 1	9/11/2015		40.6	1.0	ug/L
Dichlorodifluoromethane	Sramp 1	3/16/2016		16.5	1.0	ug/L
Dichlorodifluoromethane	Sramp 1	9/08/2016		40.7	1.0	ug/L
Dichlorodifluoromethane	Sramp 1	3/18/2017		34.8	1.0	ug/L
Dichlorodifluoromethane	Sramp 1	9/19/2017		3.1	1.0	ug/L
Dichlorodifluoromethane	Sramp 1	3/25/2019		38.4	1.0	ug/L
Dichlorodifluoromethane	Sramp 1	3/09/2021		50.7	1.0	ug/L
Dichlorodifluoromethane	Sramp 1	3/28/2022		12.2	1.0	ug/L
Dichlorodifluoromethane	Sramp 1	3/20/2023		18.4	1.0	ug/L
Dichlorodifluoromethane	Sramp 1	3/24/2025		16.9	1.0	ug/L
Ethylbenzene	Sramp 1	7/21/2008		2.6	1.0	ug/L
Ethylbenzene	Sramp 1	9/12/2008		2.0	1.0	ug/L
Ethylbenzene	Sramp 1	9/21/2009		7.7	1.0	ug/L
Ethylbenzene	Sramp 1	9/24/2010		2.7	1.0	ug/L
Ethylbenzene	Sramp 1	3/30/2011		2.3	1.0	ug/L
Ethylbenzene	Sramp 1	9/14/2011		1.8	1.0	ug/L
Ethylbenzene	Sramp 1	9/26/2013		3.5	1.0	ug/L
Ethylbenzene	Sramp 1	3/16/2016		2.1	1.0	ug/L
Ethylbenzene	Sramp 1	3/09/2021		1.9	1.0	ug/L
Trichlorofluoromethane	Sramp 1	7/21/2008		26.0	1.0	ug/L
Trichlorofluoromethane	Sramp 1	9/12/2008		12.7	1.0	ug/L
Trichlorofluoromethane	Sramp 1	12/12/2008		17.7	1.0	ug/L
Trichlorofluoromethane	Sramp 1	3/04/2009		26.8	1.0	ug/L
Trichlorofluoromethane	Sramp 1	9/21/2009		14.1	1.0	ug/L
Trichlorofluoromethane	Sramp 1	9/24/2010		3.0	1.0	ug/L
Trichlorofluoromethane	Sramp 1	3/30/2011		7.3	1.0	ug/L
Trichlorofluoromethane	Sramp 1	9/14/2011		2.8	1.0	ug/L
Trichlorofluoromethane	Sramp 1	3/20/2013		4.0	1.0	ug/L
Trichlorofluoromethane	Sramp 1	9/26/2013		3.0	1.0	ug/L
Trichlorofluoromethane	Sramp 1	9/11/2015		7.3	1.0	ug/L
Trichlorofluoromethane	Sramp 1	3/16/2016		39.1	1.0	ug/L
Trichlorofluoromethane	Sramp 1	9/08/2016		24.2	1.0	ug/L
Trichlorofluoromethane	Sramp 1	3/18/2017		17.9	1.0	ug/L
Trichlorofluoromethane	Sramp 1	9/19/2017		2.1	1.0	ug/L
Trichlorofluoromethane	Sramp 1	3/25/2019		22.5	1.0	ug/L
Trichlorofluoromethane	Sramp 1	3/09/2021		28.0	1.0	ug/L
Trichlorofluoromethane	Sramp 1	3/28/2022		8.1	1.0	ug/L
Trichlorofluoromethane	Sramp 1	3/20/2023		9.1	1.0	ug/L
Trichlorofluoromethane	Sramp 1	3/24/2025		11.1	1.0	ug/L
Vinyl chloride	Sramp 1	7/21/2008		1.1	1.0	ug/L
Vinyl chloride	Sramp 1	9/12/2008		1.0	1.0	ug/L
Vinyl chloride	Sramp 1	12/12/2008		1.0	1.0	ug/L
Vinyl chloride	Sramp 1	3/04/2009		1.0	1.0	ug/L
Xylenes, total	Sramp 1	7/21/2008		3.4	2.0	ug/L
Xylenes, total	Sramp 1	9/12/2008		2.8	2.0	ug/L
Xylenes, total	Sramp 1	12/12/2008		2.3	2.0	ug/L
Xylenes, total	Sramp 1	9/21/2009		5.9	2.0	ug/L
Xylenes, total	Sramp 1	9/24/2010		5.7	2.0	ug/L
Xylenes, total	Sramp 1	9/14/2011		3.2	2.0	ug/L
Xylenes, total	Sramp 1	9/26/2013		3.4	2.0	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
Xylenes, total	Sramp 1	3/16/2016		2.4	2.0	ug/L
Acetone	SRAMP 2	3/13/2014		82.2	10.0	ug/L
Ethylbenzene	SRAMP 2	9/24/2018		1.5	1.0	ug/L
Xylenes, total	SRAMP 2	9/24/2018		8.1	2.0	ug/L

Detections are shown for the constituents and sample points selected for the analysis
The Limit column refers to the laboratory reporting limit

Attachment F

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	MW98-25	4	1.075	0.096	1.176	0.962	1.188	140.000	
1,4-dichlorobenzene	ug/L	MW98-25	4	1.875	0.574	1.176	1.200	2.550	75.000	
Benzene	ug/L	MW98-25	4	0.725	0.450	1.176	0.196	1.254	5.000	
Chlorobenzene	ug/L	MW98-25	4	0.850	0.436	1.176	0.337	1.363	100.000	
Chloroethane	ug/L	MW98-25	4	1.075	0.427	1.176	0.572	1.578	2800.000	dec
Chloromethane	ug/L	MW98-25	4	0.825	0.650	1.176	0.060	1.590		
Cis-1,2-dichloroethylene	ug/L	MW98-25	4	1.825	0.465	1.176	1.279	2.371	70.000	dec
Dichlorodifluoromethane	ug/L	MW98-25	4	1.275	0.896	1.176	0.221	2.329	1000.000	
Trichlorofluoromethane	ug/L	MW98-25	4	0.625	0.250	1.176	0.331	0.919	2000.000	

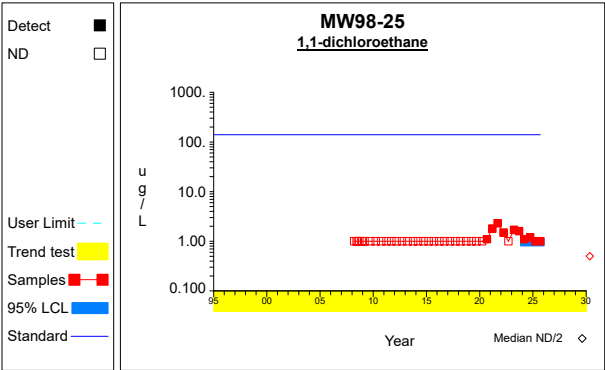
* - Insufficient Data

** - Significant Exceedance

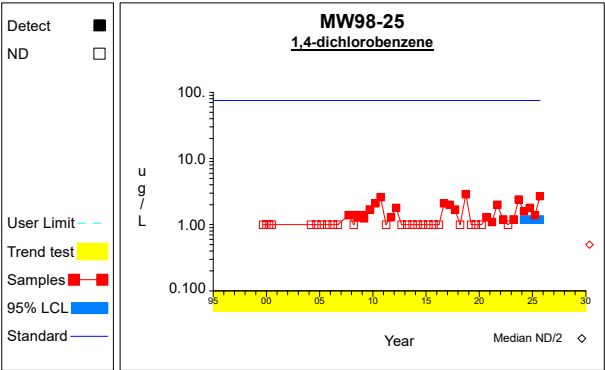
LCL = Lower Confidence Limit

UCL = Upper Confidence Limit

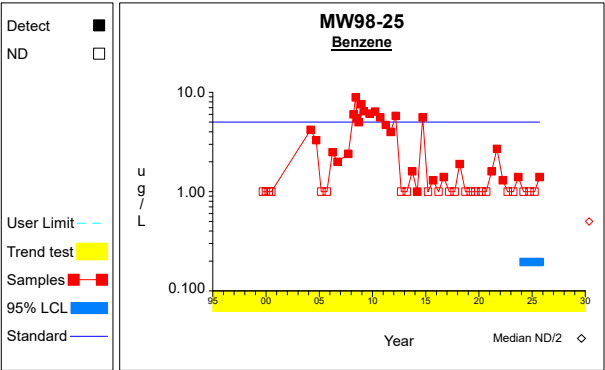
Confidence Limits (Assessment)



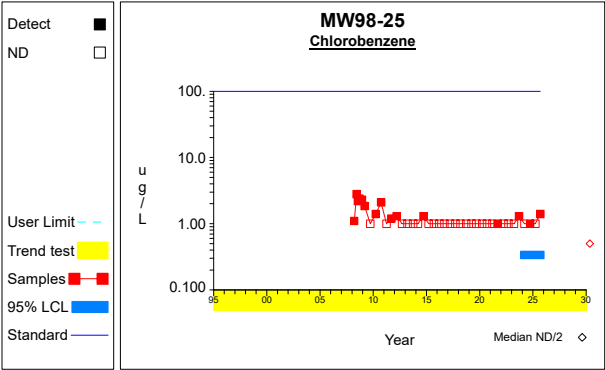
Graph 1



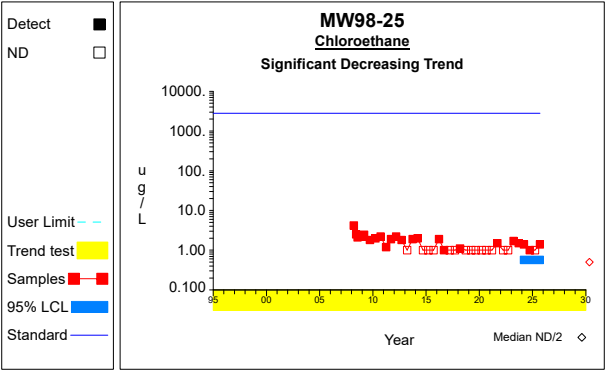
Graph 2



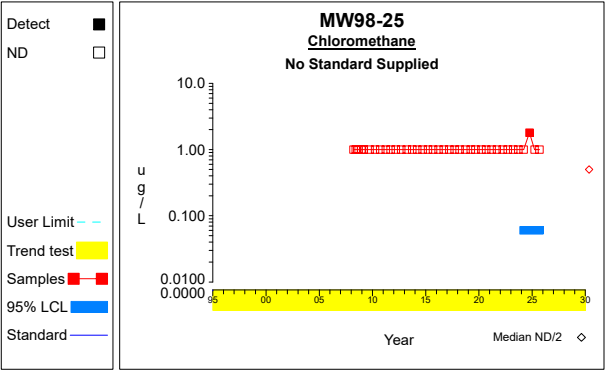
Graph 3



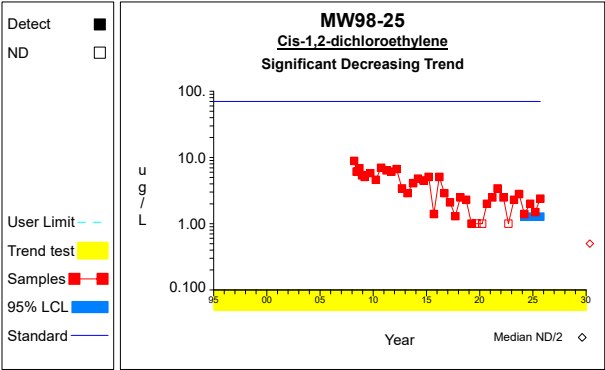
Graph 4



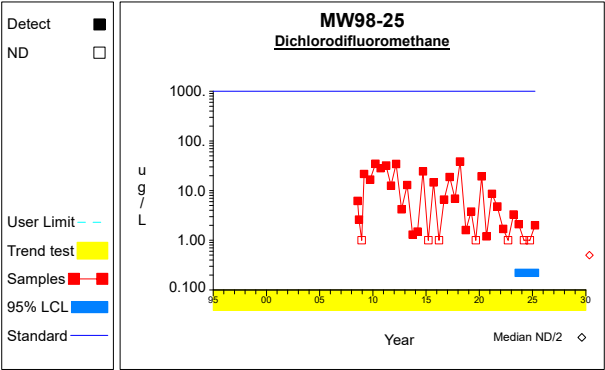
Graph 5



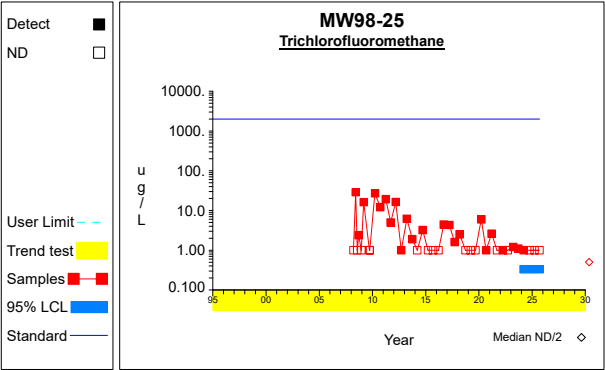
Graph 6



Graph 7



Graph 8



Graph 9

Appendix C

Laboratory Reports for Report Period



Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

1IC1728

Project Description

6007

For:

Todd Whipple

HLW Engineering

204 West Broad St

Story City, IA 50248

Sue Thompson

Client Services Manager

Thursday, June 19, 2025

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

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

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Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

1IC1728

HLW Engineering

Todd Whipple
204 West Broad St
Story City, IA 50248

Project Name: 6007

Project / PO Number: N/A
Received: 03/25/2025
Reported: 06/19/2025

Sample Summary Report

<u>Sample Name</u>	<u>Laboratory ID</u>	<u>Client Matrix</u>	<u>Sample Type</u>	<u>Sample Begin</u>	<u>Sample Taken</u>	<u>Lab Received</u>
MW91-8	1IC1728-01	Aqueous	GRAB		03/24/25 14:39	03/25/25 09:45
MW02-15A	1IC1728-02	Aqueous	GRAB		03/24/25 13:10	03/25/25 09:45
MW98-28	1IC1728-03	Aqueous	GRAB		03/24/25 08:34	03/25/25 09:45
MW02-30A	1IC1728-04	Aqueous	GRAB		03/24/25 12:57	03/25/25 09:45
MW88-2	1IC1728-05	Aqueous	GRAB		03/24/25 11:40	03/25/25 09:45
MW94-18	1IC1728-06	Aqueous	GRAB		03/24/25 08:50	03/25/25 09:45
MW09-40	1IC1728-07	Aqueous	GRAB		03/24/25 09:01	03/25/25 09:45
MW91-10	1IC1728-08	Aqueous	GRAB		03/24/25 09:40	03/25/25 09:45
MW96-21	1IC1728-09	Aqueous	GRAB		03/24/25 10:02	03/25/25 09:45
MW96-24	1IC1728-10	Aqueous	GRAB		03/24/25 10:25	03/25/25 09:45
MW88-3	1IC1728-11	Aqueous	GRAB		03/24/25 11:15	03/25/25 09:45
MW96-23	1IC1728-12	Aqueous	GRAB		03/24/25 10:43	03/25/25 09:45
MW21-43	1IC1728-13	Aqueous	GRAB		03/24/25 12:35	03/25/25 09:45
GU-3	1IC1728-14	Aqueous	GRAB		03/24/25 12:09	03/25/25 09:45
PEC-3	1IC1728-15	Aqueous	GRAB		03/24/25 12:21	03/25/25 09:45
GU-4	1IC1728-16	Aqueous	GRAB		03/24/25 11:57	03/25/25 09:45
SRAMP #1	1IC1728-17	Aqueous	GRAB		03/24/25 13:49	03/25/25 09:45
SRAMP #2	1IC1728-18	Aqueous	GRAB		03/24/25 10:59	03/25/25 09:45
MW98-25	1IC1728-19	Aqueous	GRAB		03/24/25 13:38	03/25/25 09:45
MW06-37	1IC1728-20	Aqueous	GRAB		03/24/25 14:24	03/25/25 09:45
MW06-38	1IC1728-21	Aqueous	GRAB		03/24/25 14:14	03/25/25 09:45
MW06-39	1IC1728-22	Aqueous	GRAB		03/24/25 14:04	03/25/25 09:45
Field Duplicate	1IC1728-23	Aqueous	GRAB		03/24/25 09:40	03/25/25 09:45



Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

11C1728

Analytical Testing Parameters

Client Sample ID:	MW91-8	Collected By:	JGH
Sample Matrix:	Aqueous	Collection Date:	03/24/2025 14:39
Lab Sample ID:	11C1728-01		

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 8260D							
Chloromethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1254	CSM
Vinyl Chloride	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1254	CSM
Bromomethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1254	CSM
Chloroethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1254	CSM
Trichlorofluoromethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1254	CSM
1,1-Dichloroethylene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1254	CSM
Acetone	<10.0	10.0	ug/L		03/27/25 0000	03/27/25 1254	CSM
Methyl Iodide	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1254	CSM
Carbon Disulfide	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1254	CSM
Methylene Chloride	<5.0	5.0	ug/L		03/27/25 0000	03/27/25 1254	CSM
Acrylonitrile	<5.0	5.0	ug/L		03/27/25 0000	03/27/25 1254	CSM
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1254	CSM
1,1-Dichloroethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1254	CSM
Vinyl Acetate	<5.0	5.0	ug/L		03/27/25 0000	03/27/25 1254	CSM
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1254	CSM
2-Butanone (MEK)	<10.0	10.0	ug/L		03/27/25 0000	03/27/25 1254	CSM
Bromochloromethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1254	CSM
Chloroform	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1254	CSM
1,1,1-Trichloroethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1254	CSM
Carbon Tetrachloride	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1254	CSM
Benzene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1254	CSM
1,2-Dichloroethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1254	CSM
Trichloroethylene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1254	CSM
1,2-Dichloropropane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1254	CSM
Dibromomethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1254	CSM
Bromodichloromethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1254	CSM
cis-1,3-Dichloropropene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1254	CSM
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L		03/27/25 0000	03/27/25 1254	CSM
Toluene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1254	CSM
trans-1,3-Dichloropropene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1254	CSM
1,1,2-Trichloroethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1254	CSM
Tetrachloroethylene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1254	CSM
2-Hexanone (MBK)	<5.0	5.0	ug/L		03/27/25 0000	03/27/25 1254	CSM
Dibromochloromethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1254	CSM
1,2-Dibromoethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1254	CSM
Chlorobenzene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1254	CSM
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1254	CSM
Ethylbenzene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1254	CSM
Xylenes, total	<2.0	2.0	ug/L		03/27/25 0000	03/27/25 1254	CSM
Styrene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1254	CSM

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CERTIFICATE OF ANALYSIS

11C1728

Client Sample ID: MW91-8
Sample Matrix: Aqueous
Lab Sample ID: 11C1728-01

Collected By: JGH
Collection Date: 03/24/2025 14:39

Determination of Volatile Organic Compounds		Result	RL	Units	Note	Prepared	Analyzed	Analyst
Bromoform		<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1254	CSM
1,2,3-Trichloropropane		<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1254	CSM
trans-1,4-Dichloro-2-butene		<5.0	5.0	ug/L		03/27/25 0000	03/27/25 1254	CSM
1,1,2,2-Tetrachloroethane		<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1254	CSM
1,4-Dichlorobenzene		<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1254	CSM
1,2-Dichlorobenzene		<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1254	CSM
1,2-Dibromo-3-chloropropane		<5.0	5.0	ug/L		03/27/25 0000	03/27/25 1254	CSM
Surrogate: Dibromofluoromethane	91.9	Limit: 75-136	% Rec			03/27/25 0000	03/27/25 1254	CSM
Surrogate: Dibromofluoromethane	91.9	Limit: 57-134	% Rec			03/27/25 0000	03/27/25 1254	CSM
Surrogate: 1,2-Dichloroethane-d4	84.6	Limit: 53-140	% Rec			03/27/25 0000	03/27/25 1254	CSM
Surrogate: 1,2-Dichloroethane-d4	84.6	Limit: 61-142	% Rec			03/27/25 0000	03/27/25 1254	CSM
Surrogate: Toluene-d8	91.6	Limit: 86-114	% Rec			03/27/25 0000	03/27/25 1254	CSM
Surrogate: Toluene-d8	91.6	Limit: 82-121	% Rec			03/27/25 0000	03/27/25 1254	CSM
Surrogate: 4-Bromofluorobenzene	98.0	Limit: 80-116	% Rec			03/27/25 0000	03/27/25 1254	CSM
Surrogate: 4-Bromofluorobenzene	98.0	Limit: 78-121	% Rec			03/27/25 0000	03/27/25 1254	CSM

Determination of Total Metals		Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A								
Antimony, total		<0.0010	0.0010	mg/L		04/07/25 1634	06/16/25 1857	RVV
Arsenic, total		<0.0020	0.0020	mg/L		04/07/25 1634	06/16/25 1857	RVV
Barium, total	0.0964		0.0010	mg/L		04/07/25 1634	06/16/25 1857	RVV
Beryllium, total		<0.0005	0.0005	mg/L		04/07/25 1634	06/16/25 1857	RVV
Cadmium, total	0.0005		0.0002	mg/L		04/07/25 1634	06/16/25 1857	RVV
Chromium, total	0.0016		0.0010	mg/L		04/07/25 1634	06/16/25 1857	RVV
Cobalt, total		<0.0005	0.0005	mg/L		04/07/25 1634	06/16/25 1857	RVV
Copper, total		<0.0040	0.0040	mg/L		04/07/25 1634	04/09/25 2028	KKJ
Lead, total		<0.0010	0.0010	mg/L		04/07/25 1634	06/16/25 1857	RVV
Nickel, total		<0.0040	0.0040	mg/L		04/07/25 1634	04/09/25 2028	KKJ
Selenium, total	0.0021		0.0020	mg/L		04/07/25 1634	06/16/25 1857	RVV
Silver, total		<0.0050	0.0050	mg/L		04/07/25 1634	06/16/25 1857	RVV
Thallium, total		<0.0005	0.0005	mg/L		04/07/25 1634	06/16/25 1857	RVV
Vanadium, total		<0.0020	0.0020	mg/L		04/07/25 1634	06/16/25 1857	RVV
Zinc, total		<0.0050	0.0050	mg/L		04/07/25 1634	06/16/25 1857	RVV

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CERTIFICATE OF ANALYSIS

1IC1728

Client Sample ID: MW02-15A
Sample Matrix: Aqueous
Lab Sample ID: 1IC1728-02

Collected By: JGH
Collection Date: 03/24/2025 13:10

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 8260D							
Chloromethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1316	CSM
Vinyl Chloride	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1316	CSM
Bromomethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1316	CSM
Chloroethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1316	CSM
Trichlorofluoromethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1316	CSM
1,1-Dichloroethylene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1316	CSM
Acetone	<10.0	10.0	ug/L		03/27/25 0000	03/27/25 1316	CSM
Methyl Iodide	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1316	CSM
Carbon Disulfide	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1316	CSM
Methylene Chloride	<5.0	5.0	ug/L		03/27/25 0000	03/27/25 1316	CSM
Acrylonitrile	<5.0	5.0	ug/L		03/27/25 0000	03/27/25 1316	CSM
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1316	CSM
1,1-Dichloroethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1316	CSM
Vinyl Acetate	<5.0	5.0	ug/L		03/27/25 0000	03/27/25 1316	CSM
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1316	CSM
2-Butanone (MEK)	<10.0	10.0	ug/L		03/27/25 0000	03/27/25 1316	CSM
Bromochloromethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1316	CSM
Chloroform	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1316	CSM
1,1,1-Trichloroethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1316	CSM
Carbon Tetrachloride	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1316	CSM
Benzene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1316	CSM
1,2-Dichloroethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1316	CSM
Trichloroethylene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1316	CSM
1,2-Dichloropropane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1316	CSM
Dibromomethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1316	CSM
Bromodichloromethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1316	CSM
cis-1,3-Dichloropropene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1316	CSM
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L		03/27/25 0000	03/27/25 1316	CSM
Toluene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1316	CSM
trans-1,3-Dichloropropene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1316	CSM
1,1,2-Trichloroethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1316	CSM
Tetrachloroethylene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1316	CSM
2-Hexanone (MBK)	<5.0	5.0	ug/L		03/27/25 0000	03/27/25 1316	CSM
Dibromochloromethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1316	CSM
1,2-Dibromoethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1316	CSM
Chlorobenzene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1316	CSM
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1316	CSM
Ethylbenzene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1316	CSM
Xylenes, total	<2.0	2.0	ug/L		03/27/25 0000	03/27/25 1316	CSM
Styrene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1316	CSM
Bromoform	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1316	CSM
1,2,3-Trichloropropane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1316	CSM

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CERTIFICATE OF ANALYSIS

11C1728

Client Sample ID: MW02-15A
Sample Matrix: Aqueous
Lab Sample ID: 11C1728-02

Collected By: JGH
Collection Date: 03/24/2025 13:10

Determination of Volatile Organic Compounds		Result	RL	Units	Note	Prepared	Analyzed	Analyst
trans-1,4-Dichloro-2-butene		<5.0	5.0	ug/L		03/27/25 0000	03/27/25 1316	CSM
1,1,2,2-Tetrachloroethane		<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1316	CSM
1,4-Dichlorobenzene		<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1316	CSM
1,2-Dichlorobenzene		<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1316	CSM
1,2-Dibromo-3-chloropropane		<5.0	5.0	ug/L		03/27/25 0000	03/27/25 1316	CSM
Surrogate: Dibromofluoromethane	94.5	Limit: 57-134	% Rec			03/27/25 0000	03/27/25 1316	CSM
Surrogate: Dibromofluoromethane	94.5	Limit: 75-136	% Rec			03/27/25 0000	03/27/25 1316	CSM
Surrogate: 1,2-Dichloroethane-d4	88.9	Limit: 53-140	% Rec			03/27/25 0000	03/27/25 1316	CSM
Surrogate: 1,2-Dichloroethane-d4	88.9	Limit: 61-142	% Rec			03/27/25 0000	03/27/25 1316	CSM
Surrogate: Toluene-d8	98.4	Limit: 82-121	% Rec			03/27/25 0000	03/27/25 1316	CSM
Surrogate: Toluene-d8	98.4	Limit: 86-114	% Rec			03/27/25 0000	03/27/25 1316	CSM
Surrogate: 4-Bromofluorobenzene	90.7	Limit: 80-116	% Rec			03/27/25 0000	03/27/25 1316	CSM
Surrogate: 4-Bromofluorobenzene	90.7	Limit: 78-121	% Rec			03/27/25 0000	03/27/25 1316	CSM

Determination of Total Metals		Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A								
Antimony, total		<0.0020	0.0020	mg/L		04/07/25 1634	04/09/25 2053	KKJ
Arsenic, total		<0.0040	0.0040	mg/L		04/07/25 1634	04/09/25 2053	KKJ
Barium, total	0.0326	0.0040	mg/L			04/07/25 1634	04/09/25 2053	KKJ
Beryllium, total		<0.0040	0.0040	mg/L		04/07/25 1634	04/09/25 2053	KKJ
Cadmium, total		<0.0008	0.0008	mg/L		04/07/25 1634	04/09/25 2053	KKJ
Chromium, total		<0.0080	0.0080	mg/L		04/07/25 1634	04/09/25 2053	KKJ
Cobalt, total	0.0004	0.0004	mg/L			04/07/25 1634	04/09/25 2053	KKJ
Copper, total		<0.0040	0.0040	mg/L		04/07/25 1634	04/09/25 2053	KKJ
Lead, total		<0.0040	0.0040	mg/L		04/07/25 1634	04/09/25 2053	KKJ
Nickel, total	0.0044	0.0040	mg/L			04/07/25 1634	04/09/25 2053	KKJ
Selenium, total		<0.0040	0.0040	mg/L		04/07/25 1634	04/09/25 2053	KKJ
Silver, total		<0.0040	0.0040	mg/L		04/07/25 1634	04/09/25 2053	KKJ
Thallium, total		<0.0020	0.0020	mg/L		04/07/25 1634	04/09/25 2053	KKJ
Vanadium, total		<0.0200	0.0200	mg/L		04/07/25 1634	04/09/25 2053	KKJ
Zinc, total		<0.0200	0.0200	mg/L		04/07/25 1634	04/09/25 2053	KKJ

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CERTIFICATE OF ANALYSIS

1IC1728

Client Sample ID: MW98-28
Sample Matrix: Aqueous
Lab Sample ID: 1IC1728-03

Collected By: JGH
Collection Date: 03/24/2025 8:34

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 8260D							
Chloromethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1338	CSM
Vinyl Chloride	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1338	CSM
Bromomethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1338	CSM
Chloroethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1338	CSM
Trichlorofluoromethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1338	CSM
1,1-Dichloroethylene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1338	CSM
Acetone	<10.0	10.0	ug/L		03/27/25 0000	03/27/25 1338	CSM
Methyl Iodide	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1338	CSM
Carbon Disulfide	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1338	CSM
Methylene Chloride	<5.0	5.0	ug/L		03/27/25 0000	03/27/25 1338	CSM
Acrylonitrile	<5.0	5.0	ug/L		03/27/25 0000	03/27/25 1338	CSM
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1338	CSM
1,1-Dichloroethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1338	CSM
Vinyl Acetate	<5.0	5.0	ug/L		03/27/25 0000	03/27/25 1338	CSM
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1338	CSM
2-Butanone (MEK)	<10.0	10.0	ug/L		03/27/25 0000	03/27/25 1338	CSM
Bromochloromethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1338	CSM
Chloroform	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1338	CSM
1,1,1-Trichloroethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1338	CSM
Carbon Tetrachloride	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1338	CSM
Benzene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1338	CSM
1,2-Dichloroethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1338	CSM
Trichloroethylene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1338	CSM
1,2-Dichloropropane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1338	CSM
Dibromomethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1338	CSM
Bromodichloromethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1338	CSM
cis-1,3-Dichloropropene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1338	CSM
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L		03/27/25 0000	03/27/25 1338	CSM
Toluene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1338	CSM
trans-1,3-Dichloropropene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1338	CSM
1,1,2-Trichloroethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1338	CSM
Tetrachloroethylene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1338	CSM
2-Hexanone (MBK)	<5.0	5.0	ug/L		03/27/25 0000	03/27/25 1338	CSM
Dibromochloromethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1338	CSM
1,2-Dibromoethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1338	CSM
Chlorobenzene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1338	CSM
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1338	CSM
Ethylbenzene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1338	CSM
Xylenes, total	<2.0	2.0	ug/L		03/27/25 0000	03/27/25 1338	CSM
Styrene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1338	CSM
Bromoform	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1338	CSM
1,2,3-Trichloropropane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1338	CSM

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CERTIFICATE OF ANALYSIS

11C1728

Client Sample ID: MW98-28
Sample Matrix: Aqueous
Lab Sample ID: 11C1728-03

Collected By: JGH
Collection Date: 03/24/2025 8:34

Determination of Volatile Organic Compounds		Result	RL	Units	Note	Prepared	Analyzed	Analyst
trans-1,4-Dichloro-2-butene		<5.0	5.0	ug/L		03/27/25 0000	03/27/25 1338	CSM
1,1,2,2-Tetrachloroethane		<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1338	CSM
1,4-Dichlorobenzene		<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1338	CSM
1,2-Dichlorobenzene		<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1338	CSM
1,2-Dibromo-3-chloropropane		<5.0	5.0	ug/L		03/27/25 0000	03/27/25 1338	CSM
Surrogate: Dibromofluoromethane	93.6	Limit: 57-134	% Rec			03/27/25 0000	03/27/25 1338	CSM
Surrogate: Dibromofluoromethane	93.6	Limit: 75-136	% Rec			03/27/25 0000	03/27/25 1338	CSM
Surrogate: 1,2-Dichloroethane-d4	87.4	Limit: 53-140	% Rec			03/27/25 0000	03/27/25 1338	CSM
Surrogate: 1,2-Dichloroethane-d4	87.4	Limit: 61-142	% Rec			03/27/25 0000	03/27/25 1338	CSM
Surrogate: Toluene-d8	95.6	Limit: 82-121	% Rec			03/27/25 0000	03/27/25 1338	CSM
Surrogate: Toluene-d8	95.6	Limit: 86-114	% Rec			03/27/25 0000	03/27/25 1338	CSM
Surrogate: 4-Bromofluorobenzene	91.3	Limit: 78-121	% Rec			03/27/25 0000	03/27/25 1338	CSM
Surrogate: 4-Bromofluorobenzene	91.3	Limit: 80-116	% Rec			03/27/25 0000	03/27/25 1338	CSM

Determination of Total Metals		Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A								
Antimony, total		<0.0020	0.0020	mg/L		04/07/25 1634	04/09/25 2059	KKJ
Arsenic, total		<0.0040	0.0040	mg/L		04/07/25 1634	04/09/25 2059	KKJ
Barium, total	0.256		0.0040	mg/L		04/07/25 1634	04/09/25 2059	KKJ
Beryllium, total		<0.0040	0.0040	mg/L		04/07/25 1634	04/09/25 2059	KKJ
Cadmium, total		<0.0008	0.0008	mg/L		04/07/25 1634	04/09/25 2059	KKJ
Chromium, total		<0.0080	0.0080	mg/L		04/07/25 1634	04/09/25 2059	KKJ
Cobalt, total	0.0021		0.0004	mg/L		04/07/25 1634	04/09/25 2059	KKJ
Copper, total		<0.0040	0.0040	mg/L		04/07/25 1634	04/09/25 2059	KKJ
Lead, total		<0.0040	0.0040	mg/L		04/07/25 1634	04/09/25 2059	KKJ
Nickel, total	0.0078		0.0040	mg/L		04/07/25 1634	04/09/25 2059	KKJ
Selenium, total		<0.0040	0.0040	mg/L		04/07/25 1634	04/09/25 2059	KKJ
Silver, total		<0.0040	0.0040	mg/L		04/07/25 1634	04/09/25 2059	KKJ
Thallium, total		<0.0020	0.0020	mg/L		04/07/25 1634	04/09/25 2059	KKJ
Vanadium, total		<0.0200	0.0200	mg/L		04/07/25 1634	04/09/25 2059	KKJ
Zinc, total		<0.0200	0.0200	mg/L		04/07/25 1634	04/09/25 2059	KKJ

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CERTIFICATE OF ANALYSIS

1IC1728

Client Sample ID: MW02-30A
Sample Matrix: Aqueous
Lab Sample ID: 1IC1728-04

Collected By: JGH
Collection Date: 03/24/2025 12:57

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 8260D							
Chloromethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1400	CSM
Vinyl Chloride	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1400	CSM
Bromomethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1400	CSM
Chloroethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1400	CSM
Trichlorofluoromethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1400	CSM
1,1-Dichloroethylene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1400	CSM
Acetone	<10.0	10.0	ug/L		03/27/25 0000	03/27/25 1400	CSM
Methyl Iodide	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1400	CSM
Carbon Disulfide	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1400	CSM
Methylene Chloride	<5.0	5.0	ug/L		03/27/25 0000	03/27/25 1400	CSM
Acrylonitrile	<5.0	5.0	ug/L		03/27/25 0000	03/27/25 1400	CSM
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1400	CSM
1,1-Dichloroethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1400	CSM
Vinyl Acetate	<5.0	5.0	ug/L		03/27/25 0000	03/27/25 1400	CSM
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1400	CSM
2-Butanone (MEK)	<10.0	10.0	ug/L		03/27/25 0000	03/27/25 1400	CSM
Bromochloromethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1400	CSM
Chloroform	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1400	CSM
1,1,1-Trichloroethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1400	CSM
Carbon Tetrachloride	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1400	CSM
Benzene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1400	CSM
1,2-Dichloroethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1400	CSM
Trichloroethylene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1400	CSM
1,2-Dichloropropane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1400	CSM
Dibromomethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1400	CSM
Bromodichloromethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1400	CSM
cis-1,3-Dichloropropene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1400	CSM
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L		03/27/25 0000	03/27/25 1400	CSM
Toluene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1400	CSM
trans-1,3-Dichloropropene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1400	CSM
1,1,2-Trichloroethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1400	CSM
Tetrachloroethylene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1400	CSM
2-Hexanone (MBK)	<5.0	5.0	ug/L		03/27/25 0000	03/27/25 1400	CSM
Dibromochloromethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1400	CSM
1,2-Dibromoethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1400	CSM
Chlorobenzene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1400	CSM
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1400	CSM
Ethylbenzene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1400	CSM
Xylenes, total	<2.0	2.0	ug/L		03/27/25 0000	03/27/25 1400	CSM
Styrene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1400	CSM
Bromoform	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1400	CSM
1,2,3-Trichloropropane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1400	CSM

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CERTIFICATE OF ANALYSIS

11C1728

Client Sample ID: MW02-30A
Sample Matrix: Aqueous
Lab Sample ID: 11C1728-04

Collected By: JGH
Collection Date: 03/24/2025 12:57

Determination of Volatile Organic Compounds		Result	RL	Units	Note	Prepared	Analyzed	Analyst
trans-1,4-Dichloro-2-butene		<5.0	5.0	ug/L		03/27/25 0000	03/27/25 1400	CSM
1,1,2,2-Tetrachloroethane		<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1400	CSM
1,4-Dichlorobenzene		<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1400	CSM
1,2-Dichlorobenzene		<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1400	CSM
1,2-Dibromo-3-chloropropane		<5.0	5.0	ug/L		03/27/25 0000	03/27/25 1400	CSM
Surrogate: Dibromofluoromethane	97.0	Limit: 75-136	% Rec			03/27/25 0000	03/27/25 1400	CSM
Surrogate: Dibromofluoromethane	97.0	Limit: 57-134	% Rec			03/27/25 0000	03/27/25 1400	CSM
Surrogate: 1,2-Dichloroethane-d4	93.1	Limit: 61-142	% Rec			03/27/25 0000	03/27/25 1400	CSM
Surrogate: 1,2-Dichloroethane-d4	93.1	Limit: 53-140	% Rec			03/27/25 0000	03/27/25 1400	CSM
Surrogate: Toluene-d8	93.9	Limit: 82-121	% Rec			03/27/25 0000	03/27/25 1400	CSM
Surrogate: Toluene-d8	93.9	Limit: 86-114	% Rec			03/27/25 0000	03/27/25 1400	CSM
Surrogate: 4-Bromofluorobenzene	90.0	Limit: 78-121	% Rec			03/27/25 0000	03/27/25 1400	CSM
Surrogate: 4-Bromofluorobenzene	90.0	Limit: 80-116	% Rec			03/27/25 0000	03/27/25 1400	CSM

Determination of Total Metals		Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A								
Antimony, total		<0.0020	0.0020	mg/L		04/07/25 1634	04/09/25 2105	KKJ
Arsenic, total	0.0383		0.0040	mg/L		04/07/25 1634	04/09/25 2105	KKJ
Barium, total	0.0857		0.0040	mg/L		04/07/25 1634	04/09/25 2105	KKJ
Beryllium, total		<0.0040	0.0040	mg/L		04/07/25 1634	04/09/25 2105	KKJ
Cadmium, total		<0.0008	0.0008	mg/L		04/07/25 1634	04/09/25 2105	KKJ
Chromium, total		<0.0080	0.0080	mg/L		04/07/25 1634	04/09/25 2105	KKJ
Cobalt, total		<0.0004	0.0004	mg/L		04/07/25 1634	04/09/25 2105	KKJ
Copper, total		<0.0040	0.0040	mg/L		04/07/25 1634	04/09/25 2105	KKJ
Lead, total		<0.0040	0.0040	mg/L		04/07/25 1634	04/09/25 2105	KKJ
Nickel, total		<0.0040	0.0040	mg/L		04/07/25 1634	04/09/25 2105	KKJ
Selenium, total		<0.0040	0.0040	mg/L		04/07/25 1634	04/09/25 2105	KKJ
Silver, total		<0.0040	0.0040	mg/L		04/07/25 1634	04/09/25 2105	KKJ
Thallium, total		<0.0020	0.0020	mg/L		04/07/25 1634	04/09/25 2105	KKJ
Vanadium, total		<0.0200	0.0200	mg/L		04/07/25 1634	04/09/25 2105	KKJ
Zinc, total		<0.0200	0.0200	mg/L		04/07/25 1634	04/09/25 2105	KKJ

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CERTIFICATE OF ANALYSIS

1IC1728

Client Sample ID: MW88-2
Sample Matrix: Aqueous
Lab Sample ID: 1IC1728-05

Collected By: JGH
Collection Date: 03/24/2025 11:40

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 8260D							
Chloromethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1423	CSM
Vinyl Chloride	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1423	CSM
Bromomethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1423	CSM
Chloroethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1423	CSM
Trichlorofluoromethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1423	CSM
1,1-Dichloroethylene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1423	CSM
Acetone	<10.0	10.0	ug/L		03/27/25 0000	03/27/25 1423	CSM
Methyl Iodide	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1423	CSM
Carbon Disulfide	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1423	CSM
Methylene Chloride	<5.0	5.0	ug/L		03/27/25 0000	03/27/25 1423	CSM
Acrylonitrile	<5.0	5.0	ug/L		03/27/25 0000	03/27/25 1423	CSM
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1423	CSM
1,1-Dichloroethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1423	CSM
Vinyl Acetate	<5.0	5.0	ug/L		03/27/25 0000	03/27/25 1423	CSM
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1423	CSM
2-Butanone (MEK)	<10.0	10.0	ug/L		03/27/25 0000	03/27/25 1423	CSM
Bromochloromethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1423	CSM
Chloroform	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1423	CSM
1,1,1-Trichloroethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1423	CSM
Carbon Tetrachloride	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1423	CSM
Benzene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1423	CSM
1,2-Dichloroethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1423	CSM
Trichloroethylene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1423	CSM
1,2-Dichloropropane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1423	CSM
Dibromomethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1423	CSM
Bromodichloromethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1423	CSM
cis-1,3-Dichloropropene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1423	CSM
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L		03/27/25 0000	03/27/25 1423	CSM
Toluene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1423	CSM
trans-1,3-Dichloropropene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1423	CSM
1,1,2-Trichloroethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1423	CSM
Tetrachloroethylene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1423	CSM
2-Hexanone (MBK)	<5.0	5.0	ug/L		03/27/25 0000	03/27/25 1423	CSM
Dibromochloromethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1423	CSM
1,2-Dibromoethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1423	CSM
Chlorobenzene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1423	CSM
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1423	CSM
Ethylbenzene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1423	CSM
Xylenes, total	<2.0	2.0	ug/L		03/27/25 0000	03/27/25 1423	CSM
Styrene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1423	CSM
Bromoform	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1423	CSM
1,2,3-Trichloropropane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1423	CSM

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CERTIFICATE OF ANALYSIS

11C1728

Client Sample ID: MW88-2
Sample Matrix: Aqueous
Lab Sample ID: 11C1728-05

Collected By: JGH
Collection Date: 03/24/2025 11:40

Determination of Volatile Organic Compounds		Result	RL	Units	Note	Prepared	Analyzed	Analyst
trans-1,4-Dichloro-2-butene		<5.0	5.0	ug/L		03/27/25 0000	03/27/25 1423	CSM
1,1,2,2-Tetrachloroethane		<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1423	CSM
1,4-Dichlorobenzene		<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1423	CSM
1,2-Dichlorobenzene		<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1423	CSM
1,2-Dibromo-3-chloropropane		<5.0	5.0	ug/L		03/27/25 0000	03/27/25 1423	CSM
Surrogate: Dibromofluoromethane	96.6	Limit: 57-134	% Rec			03/27/25 0000	03/27/25 1423	CSM
Surrogate: Dibromofluoromethane	96.6	Limit: 75-136	% Rec			03/27/25 0000	03/27/25 1423	CSM
Surrogate: 1,2-Dichloroethane-d4	93.7	Limit: 53-140	% Rec			03/27/25 0000	03/27/25 1423	CSM
Surrogate: 1,2-Dichloroethane-d4	93.7	Limit: 61-142	% Rec			03/27/25 0000	03/27/25 1423	CSM
Surrogate: Toluene-d8	97.9	Limit: 86-114	% Rec			03/27/25 0000	03/27/25 1423	CSM
Surrogate: Toluene-d8	97.9	Limit: 82-121	% Rec			03/27/25 0000	03/27/25 1423	CSM
Surrogate: 4-Bromofluorobenzene	96.1	Limit: 78-121	% Rec			03/27/25 0000	03/27/25 1423	CSM
Surrogate: 4-Bromofluorobenzene	96.1	Limit: 80-116	% Rec			03/27/25 0000	03/27/25 1423	CSM

Determination of Total Metals		Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A								
Antimony, total		<0.0020	0.0020	mg/L		04/07/25 1634	04/09/25 2123	KKJ
Arsenic, total		<0.0040	0.0040	mg/L		04/07/25 1634	04/09/25 2123	KKJ
Barium, total	0.297	0.0040	0.0040	mg/L		04/07/25 1634	04/09/25 2123	KKJ
Beryllium, total		<0.0040	0.0040	mg/L		04/07/25 1634	04/09/25 2123	KKJ
Cadmium, total		<0.0008	0.0008	mg/L		04/07/25 1634	04/09/25 2123	KKJ
Chromium, total		<0.0080	0.0080	mg/L		04/07/25 1634	04/09/25 2123	KKJ
Cobalt, total	0.0007	0.0004	0.0004	mg/L		04/07/25 1634	04/09/25 2123	KKJ
Copper, total		<0.0040	0.0040	mg/L		04/07/25 1634	04/09/25 2123	KKJ
Lead, total		<0.0040	0.0040	mg/L		04/07/25 1634	04/09/25 2123	KKJ
Nickel, total	0.0040	0.0040	0.0040	mg/L		04/07/25 1634	04/09/25 2123	KKJ
Selenium, total		<0.0040	0.0040	mg/L		04/07/25 1634	04/09/25 2123	KKJ
Silver, total		<0.0040	0.0040	mg/L		04/07/25 1634	04/09/25 2123	KKJ
Thallium, total		<0.0020	0.0020	mg/L		04/07/25 1634	04/09/25 2123	KKJ
Vanadium, total		<0.0200	0.0200	mg/L		04/07/25 1634	04/09/25 2123	KKJ
Zinc, total		<0.0200	0.0200	mg/L		04/07/25 1634	04/09/25 2123	KKJ

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CERTIFICATE OF ANALYSIS

1IC1728

Client Sample ID: MW94-18
Sample Matrix: Aqueous
Lab Sample ID: 1IC1728-06

Collected By: JGH
Collection Date: 03/24/2025 8:50

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 8260D							
Chloromethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1445	CSM
Vinyl Chloride	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1445	CSM
Bromomethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1445	CSM
Chloroethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1445	CSM
Trichlorofluoromethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1445	CSM
1,1-Dichloroethylene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1445	CSM
Acetone	<10.0	10.0	ug/L		03/27/25 0000	03/27/25 1445	CSM
Methyl Iodide	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1445	CSM
Carbon Disulfide	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1445	CSM
Methylene Chloride	<5.0	5.0	ug/L		03/27/25 0000	03/27/25 1445	CSM
Acrylonitrile	<5.0	5.0	ug/L		03/27/25 0000	03/27/25 1445	CSM
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1445	CSM
1,1-Dichloroethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1445	CSM
Vinyl Acetate	<5.0	5.0	ug/L		03/27/25 0000	03/27/25 1445	CSM
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1445	CSM
2-Butanone (MEK)	<10.0	10.0	ug/L		03/27/25 0000	03/27/25 1445	CSM
Bromochloromethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1445	CSM
Chloroform	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1445	CSM
1,1,1-Trichloroethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1445	CSM
Carbon Tetrachloride	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1445	CSM
Benzene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1445	CSM
1,2-Dichloroethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1445	CSM
Trichloroethylene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1445	CSM
1,2-Dichloropropane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1445	CSM
Dibromomethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1445	CSM
Bromodichloromethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1445	CSM
cis-1,3-Dichloropropene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1445	CSM
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L		03/27/25 0000	03/27/25 1445	CSM
Toluene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1445	CSM
trans-1,3-Dichloropropene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1445	CSM
1,1,2-Trichloroethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1445	CSM
Tetrachloroethylene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1445	CSM
2-Hexanone (MBK)	<5.0	5.0	ug/L		03/27/25 0000	03/27/25 1445	CSM
Dibromochloromethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1445	CSM
1,2-Dibromoethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1445	CSM
Chlorobenzene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1445	CSM
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1445	CSM
Ethylbenzene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1445	CSM
Xylenes, total	<2.0	2.0	ug/L		03/27/25 0000	03/27/25 1445	CSM
Styrene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1445	CSM
Bromoform	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1445	CSM
1,2,3-Trichloropropane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1445	CSM

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CERTIFICATE OF ANALYSIS

11C1728

Client Sample ID: MW94-18
Sample Matrix: Aqueous
Lab Sample ID: 11C1728-06

Collected By: JGH
Collection Date: 03/24/2025 8:50

Determination of Volatile Organic Compounds		Result	RL	Units	Note	Prepared	Analyzed	Analyst
trans-1,4-Dichloro-2-butene		<5.0	5.0	ug/L		03/27/25 0000	03/27/25 1445	CSM
1,1,2,2-Tetrachloroethane		<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1445	CSM
1,4-Dichlorobenzene		<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1445	CSM
1,2-Dichlorobenzene		<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1445	CSM
1,2-Dibromo-3-chloropropane		<5.0	5.0	ug/L		03/27/25 0000	03/27/25 1445	CSM
Surrogate: Dibromofluoromethane	92.2	Limit: 57-134	% Rec			03/27/25 0000	03/27/25 1445	CSM
Surrogate: Dibromofluoromethane	92.2	Limit: 75-136	% Rec			03/27/25 0000	03/27/25 1445	CSM
Surrogate: 1,2-Dichloroethane-d4	88.8	Limit: 53-140	% Rec			03/27/25 0000	03/27/25 1445	CSM
Surrogate: 1,2-Dichloroethane-d4	88.8	Limit: 61-142	% Rec			03/27/25 0000	03/27/25 1445	CSM
Surrogate: Toluene-d8	97.1	Limit: 86-114	% Rec			03/27/25 0000	03/27/25 1445	CSM
Surrogate: Toluene-d8	97.1	Limit: 82-121	% Rec			03/27/25 0000	03/27/25 1445	CSM
Surrogate: 4-Bromofluorobenzene	90.6	Limit: 78-121	% Rec			03/27/25 0000	03/27/25 1445	CSM
Surrogate: 4-Bromofluorobenzene	90.6	Limit: 80-116	% Rec			03/27/25 0000	03/27/25 1445	CSM

Determination of Total Metals		Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A								
Antimony, total		<0.0020	0.0020	mg/L		04/07/25 1634	04/09/25 2129	KKJ
Arsenic, total		<0.0040	0.0040	mg/L		04/07/25 1634	04/09/25 2129	KKJ
Barium, total	0.0252		0.0040	mg/L		04/07/25 1634	04/09/25 2129	KKJ
Beryllium, total		<0.0040	0.0040	mg/L		04/07/25 1634	04/09/25 2129	KKJ
Cadmium, total		<0.0008	0.0008	mg/L		04/07/25 1634	04/09/25 2129	KKJ
Chromium, total		<0.0080	0.0080	mg/L		04/07/25 1634	04/09/25 2129	KKJ
Cobalt, total		<0.0004	0.0004	mg/L		04/07/25 1634	04/09/25 2129	KKJ
Copper, total		<0.0040	0.0040	mg/L		04/07/25 1634	04/09/25 2129	KKJ
Lead, total		<0.0040	0.0040	mg/L		04/07/25 1634	04/09/25 2129	KKJ
Nickel, total		<0.0040	0.0040	mg/L		04/07/25 1634	04/09/25 2129	KKJ
Selenium, total		<0.0040	0.0040	mg/L		04/07/25 1634	04/09/25 2129	KKJ
Silver, total		<0.0040	0.0040	mg/L		04/07/25 1634	04/09/25 2129	KKJ
Thallium, total		<0.0020	0.0020	mg/L		04/07/25 1634	04/09/25 2129	KKJ
Vanadium, total		<0.0200	0.0200	mg/L		04/07/25 1634	04/09/25 2129	KKJ
Zinc, total		<0.0200	0.0200	mg/L		04/07/25 1634	04/09/25 2129	KKJ

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CERTIFICATE OF ANALYSIS

1IC1728

Client Sample ID: MW09-40
Sample Matrix: Aqueous
Lab Sample ID: 1IC1728-07

Collected By: JGH
Collection Date: 03/24/2025 9:01

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 8260D							
Chloromethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1507	CSM
Vinyl Chloride	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1507	CSM
Bromomethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1507	CSM
Chloroethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1507	CSM
Trichlorofluoromethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1507	CSM
1,1-Dichloroethylene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1507	CSM
Acetone	<10.0	10.0	ug/L		03/27/25 0000	03/27/25 1507	CSM
Methyl Iodide	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1507	CSM
Carbon Disulfide	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1507	CSM
Methylene Chloride	<5.0	5.0	ug/L		03/27/25 0000	03/27/25 1507	CSM
Acrylonitrile	<5.0	5.0	ug/L		03/27/25 0000	03/27/25 1507	CSM
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1507	CSM
1,1-Dichloroethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1507	CSM
Vinyl Acetate	<5.0	5.0	ug/L		03/27/25 0000	03/27/25 1507	CSM
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1507	CSM
2-Butanone (MEK)	<10.0	10.0	ug/L		03/27/25 0000	03/27/25 1507	CSM
Bromochloromethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1507	CSM
Chloroform	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1507	CSM
1,1,1-Trichloroethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1507	CSM
Carbon Tetrachloride	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1507	CSM
Benzene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1507	CSM
1,2-Dichloroethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1507	CSM
Trichloroethylene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1507	CSM
1,2-Dichloropropane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1507	CSM
Dibromomethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1507	CSM
Bromodichloromethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1507	CSM
cis-1,3-Dichloropropene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1507	CSM
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L		03/27/25 0000	03/27/25 1507	CSM
Toluene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1507	CSM
trans-1,3-Dichloropropene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1507	CSM
1,1,2-Trichloroethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1507	CSM
Tetrachloroethylene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1507	CSM
2-Hexanone (MBK)	<5.0	5.0	ug/L		03/27/25 0000	03/27/25 1507	CSM
Dibromochloromethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1507	CSM
1,2-Dibromoethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1507	CSM
Chlorobenzene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1507	CSM
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1507	CSM
Ethylbenzene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1507	CSM
Xylenes, total	<2.0	2.0	ug/L		03/27/25 0000	03/27/25 1507	CSM
Styrene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1507	CSM
Bromoform	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1507	CSM
1,2,3-Trichloropropane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1507	CSM

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CERTIFICATE OF ANALYSIS

11C1728

Client Sample ID: MW09-40
Sample Matrix: Aqueous
Lab Sample ID: 11C1728-07

Collected By: JGH
Collection Date: 03/24/2025 9:01

Determination of Volatile Organic Compounds		Result	RL	Units	Note	Prepared	Analyzed	Analyst
trans-1,4-Dichloro-2-butene		<5.0	5.0	ug/L		03/27/25 0000	03/27/25 1507	CSM
1,1,2,2-Tetrachloroethane		<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1507	CSM
1,4-Dichlorobenzene		<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1507	CSM
1,2-Dichlorobenzene		<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1507	CSM
1,2-Dibromo-3-chloropropane		<5.0	5.0	ug/L		03/27/25 0000	03/27/25 1507	CSM
Surrogate: Dibromofluoromethane	95.1	Limit: 57-134	% Rec			03/27/25 0000	03/27/25 1507	CSM
Surrogate: Dibromofluoromethane	95.1	Limit: 75-136	% Rec			03/27/25 0000	03/27/25 1507	CSM
Surrogate: 1,2-Dichloroethane-d4	91.9	Limit: 61-142	% Rec			03/27/25 0000	03/27/25 1507	CSM
Surrogate: 1,2-Dichloroethane-d4	91.9	Limit: 53-140	% Rec			03/27/25 0000	03/27/25 1507	CSM
Surrogate: Toluene-d8	98.1	Limit: 86-114	% Rec			03/27/25 0000	03/27/25 1507	CSM
Surrogate: Toluene-d8	98.1	Limit: 82-121	% Rec			03/27/25 0000	03/27/25 1507	CSM
Surrogate: 4-Bromofluorobenzene	91.0	Limit: 80-116	% Rec			03/27/25 0000	03/27/25 1507	CSM
Surrogate: 4-Bromofluorobenzene	91.0	Limit: 78-121	% Rec			03/27/25 0000	03/27/25 1507	CSM

Determination of Total Metals		Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A								
Antimony, total	0.0028	0.0010	mg/L			04/07/25 1634	06/16/25 1911	RVV
Arsenic, total	<0.0040	0.0040	mg/L			04/07/25 1634	04/09/25 2136	KKJ
Barium, total	0.0152	0.0040	mg/L			04/07/25 1634	04/09/25 2136	KKJ
Beryllium, total	<0.0040	0.0040	mg/L			04/07/25 1634	04/09/25 2136	KKJ
Cadmium, total	<0.0008	0.0008	mg/L			04/07/25 1634	04/09/25 2136	KKJ
Chromium, total	<0.0080	0.0080	mg/L			04/07/25 1634	04/09/25 2136	KKJ
Cobalt, total	<0.0004	0.0004	mg/L			04/07/25 1634	04/09/25 2136	KKJ
Copper, total	<0.0040	0.0040	mg/L			04/07/25 1634	04/09/25 2136	KKJ
Lead, total	<0.0040	0.0040	mg/L			04/07/25 1634	04/09/25 2136	KKJ
Nickel, total	<0.0040	0.0040	mg/L			04/07/25 1634	04/09/25 2136	KKJ
Selenium, total	<0.0040	0.0040	mg/L			04/07/25 1634	04/09/25 2136	KKJ
Silver, total	<0.0040	0.0040	mg/L			04/07/25 1634	04/09/25 2136	KKJ
Thallium, total	<0.0020	0.0020	mg/L			04/07/25 1634	04/09/25 2136	KKJ
Vanadium, total	<0.0200	0.0200	mg/L			04/07/25 1634	04/09/25 2136	KKJ
Zinc, total	<0.0200	0.0200	mg/L			04/07/25 1634	04/09/25 2136	KKJ

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CERTIFICATE OF ANALYSIS

1IC1728

Client Sample ID: MW91-10
Sample Matrix: Aqueous
Lab Sample ID: 1IC1728-08

Collected By: JGH
Collection Date: 03/24/2025 9:40

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 8260D							
Chloromethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1529	CSM
Vinyl Chloride	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1529	CSM
Bromomethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1529	CSM
Chloroethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1529	CSM
Trichlorofluoromethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1529	CSM
1,1-Dichloroethylene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1529	CSM
Acetone	<10.0	10.0	ug/L		03/27/25 0000	03/27/25 1529	CSM
Methyl Iodide	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1529	CSM
Carbon Disulfide	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1529	CSM
Methylene Chloride	<5.0	5.0	ug/L		03/27/25 0000	03/27/25 1529	CSM
Acrylonitrile	<5.0	5.0	ug/L		03/27/25 0000	03/27/25 1529	CSM
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1529	CSM
1,1-Dichloroethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1529	CSM
Vinyl Acetate	<5.0	5.0	ug/L		03/27/25 0000	03/27/25 1529	CSM
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1529	CSM
2-Butanone (MEK)	<10.0	10.0	ug/L		03/27/25 0000	03/27/25 1529	CSM
Bromochloromethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1529	CSM
Chloroform	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1529	CSM
1,1,1-Trichloroethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1529	CSM
Carbon Tetrachloride	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1529	CSM
Benzene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1529	CSM
1,2-Dichloroethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1529	CSM
Trichloroethylene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1529	CSM
1,2-Dichloropropane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1529	CSM
Dibromomethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1529	CSM
Bromodichloromethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1529	CSM
cis-1,3-Dichloropropene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1529	CSM
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L		03/27/25 0000	03/27/25 1529	CSM
Toluene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1529	CSM
trans-1,3-Dichloropropene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1529	CSM
1,1,2-Trichloroethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1529	CSM
Tetrachloroethylene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1529	CSM
2-Hexanone (MBK)	<5.0	5.0	ug/L		03/27/25 0000	03/27/25 1529	CSM
Dibromochloromethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1529	CSM
1,2-Dibromoethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1529	CSM
Chlorobenzene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1529	CSM
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1529	CSM
Ethylbenzene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1529	CSM
Xylenes, total	<2.0	2.0	ug/L		03/27/25 0000	03/27/25 1529	CSM
Styrene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1529	CSM
Bromoform	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1529	CSM
1,2,3-Trichloropropane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1529	CSM

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CERTIFICATE OF ANALYSIS

11C1728

Client Sample ID: MW91-10
Sample Matrix: Aqueous
Lab Sample ID: 11C1728-08

Collected By: JGH
Collection Date: 03/24/2025 9:40

Determination of Volatile Organic Compounds		Result	RL	Units	Note	Prepared	Analyzed	Analyst
trans-1,4-Dichloro-2-butene		<5.0	5.0	ug/L		03/27/25 0000	03/27/25 1529	CSM
1,1,2,2-Tetrachloroethane		<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1529	CSM
1,4-Dichlorobenzene		<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1529	CSM
1,2-Dichlorobenzene		<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1529	CSM
1,2-Dibromo-3-chloropropane		<5.0	5.0	ug/L		03/27/25 0000	03/27/25 1529	CSM
Surrogate: Dibromofluoromethane	96.2	Limit: 57-134	% Rec			03/27/25 0000	03/27/25 1529	CSM
Surrogate: Dibromofluoromethane	96.2	Limit: 75-136	% Rec			03/27/25 0000	03/27/25 1529	CSM
Surrogate: 1,2-Dichloroethane-d4	93.6	Limit: 53-140	% Rec			03/27/25 0000	03/27/25 1529	CSM
Surrogate: 1,2-Dichloroethane-d4	93.6	Limit: 61-142	% Rec			03/27/25 0000	03/27/25 1529	CSM
Surrogate: Toluene-d8	95.1	Limit: 86-114	% Rec			03/27/25 0000	03/27/25 1529	CSM
Surrogate: Toluene-d8	95.1	Limit: 82-121	% Rec			03/27/25 0000	03/27/25 1529	CSM
Surrogate: 4-Bromofluorobenzene	90.5	Limit: 78-121	% Rec			03/27/25 0000	03/27/25 1529	CSM
Surrogate: 4-Bromofluorobenzene	90.5	Limit: 80-116	% Rec			03/27/25 0000	03/27/25 1529	CSM

Determination of Total Metals		Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A								
Antimony, total		<0.0020	0.0020	mg/L		04/07/25 1634	04/09/25 2142	KKJ
Arsenic, total		<0.0040	0.0040	mg/L		04/07/25 1634	04/09/25 2142	KKJ
Barium, total	0.0384	0.0040	mg/L			04/07/25 1634	04/09/25 2142	KKJ
Beryllium, total		<0.0040	0.0040	mg/L		04/07/25 1634	04/09/25 2142	KKJ
Cadmium, total	0.0011	0.0002	mg/L			04/07/25 1634	06/16/25 1914	RVV
Chromium, total		<0.0080	0.0080	mg/L		04/07/25 1634	04/09/25 2142	KKJ
Cobalt, total		<0.0004	0.0004	mg/L		04/07/25 1634	04/09/25 2142	KKJ
Copper, total		<0.0040	0.0040	mg/L		04/07/25 1634	04/09/25 2142	KKJ
Lead, total		<0.0040	0.0040	mg/L		04/07/25 1634	04/09/25 2142	KKJ
Nickel, total		<0.0040	0.0040	mg/L		04/07/25 1634	04/09/25 2142	KKJ
Selenium, total	0.0086	0.0020	mg/L			04/07/25 1634	06/16/25 1914	RVV
Silver, total		<0.0040	0.0040	mg/L		04/07/25 1634	04/09/25 2142	KKJ
Thallium, total		<0.0020	0.0020	mg/L		04/07/25 1634	04/09/25 2142	KKJ
Vanadium, total		<0.0200	0.0200	mg/L		04/07/25 1634	04/09/25 2142	KKJ
Zinc, total		<0.0200	0.0200	mg/L		04/07/25 1634	04/09/25 2142	KKJ

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CERTIFICATE OF ANALYSIS

1IC1728

Client Sample ID: MW96-21
Sample Matrix: Aqueous
Lab Sample ID: 1IC1728-09

Collected By: JGH
Collection Date: 03/24/2025 10:02

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 8260D							
Chloromethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1552	CSM
Vinyl Chloride	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1552	CSM
Bromomethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1552	CSM
Chloroethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1552	CSM
Trichlorofluoromethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1552	CSM
1,1-Dichloroethylene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1552	CSM
Acetone	<10.0	10.0	ug/L		03/27/25 0000	03/27/25 1552	CSM
Methyl Iodide	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1552	CSM
Carbon Disulfide	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1552	CSM
Methylene Chloride	<5.0	5.0	ug/L		03/27/25 0000	03/27/25 1552	CSM
Acrylonitrile	<5.0	5.0	ug/L		03/27/25 0000	03/27/25 1552	CSM
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1552	CSM
1,1-Dichloroethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1552	CSM
Vinyl Acetate	<5.0	5.0	ug/L		03/27/25 0000	03/27/25 1552	CSM
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1552	CSM
2-Butanone (MEK)	<10.0	10.0	ug/L		03/27/25 0000	03/27/25 1552	CSM
Bromochloromethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1552	CSM
Chloroform	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1552	CSM
1,1,1-Trichloroethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1552	CSM
Carbon Tetrachloride	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1552	CSM
Benzene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1552	CSM
1,2-Dichloroethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1552	CSM
Trichloroethylene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1552	CSM
1,2-Dichloropropane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1552	CSM
Dibromomethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1552	CSM
Bromodichloromethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1552	CSM
cis-1,3-Dichloropropene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1552	CSM
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L		03/27/25 0000	03/27/25 1552	CSM
Toluene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1552	CSM
trans-1,3-Dichloropropene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1552	CSM
1,1,2-Trichloroethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1552	CSM
Tetrachloroethylene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1552	CSM
2-Hexanone (MBK)	<5.0	5.0	ug/L		03/27/25 0000	03/27/25 1552	CSM
Dibromochloromethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1552	CSM
1,2-Dibromoethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1552	CSM
Chlorobenzene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1552	CSM
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1552	CSM
Ethylbenzene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1552	CSM
Xylenes, total	<2.0	2.0	ug/L		03/27/25 0000	03/27/25 1552	CSM
Styrene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1552	CSM
Bromoform	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1552	CSM
1,2,3-Trichloropropane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1552	CSM

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CERTIFICATE OF ANALYSIS

11C1728

Client Sample ID: MW96-21
Sample Matrix: Aqueous
Lab Sample ID: 11C1728-09

Collected By: JGH
Collection Date: 03/24/2025 10:02

Determination of Volatile Organic Compounds		Result	RL	Units	Note	Prepared	Analyzed	Analyst
trans-1,4-Dichloro-2-butene		<5.0	5.0	ug/L		03/27/25 0000	03/27/25 1552	CSM
1,1,2,2-Tetrachloroethane		<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1552	CSM
1,4-Dichlorobenzene		<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1552	CSM
1,2-Dichlorobenzene		<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1552	CSM
1,2-Dibromo-3-chloropropane		<5.0	5.0	ug/L		03/27/25 0000	03/27/25 1552	CSM
Surrogate: Dibromofluoromethane	96.1	Limit: 75-136	% Rec			03/27/25 0000	03/27/25 1552	CSM
Surrogate: Dibromofluoromethane	96.1	Limit: 57-134	% Rec			03/27/25 0000	03/27/25 1552	CSM
Surrogate: 1,2-Dichloroethane-d4	90.8	Limit: 61-142	% Rec			03/27/25 0000	03/27/25 1552	CSM
Surrogate: 1,2-Dichloroethane-d4	90.8	Limit: 53-140	% Rec			03/27/25 0000	03/27/25 1552	CSM
Surrogate: Toluene-d8	95.8	Limit: 82-121	% Rec			03/27/25 0000	03/27/25 1552	CSM
Surrogate: Toluene-d8	95.8	Limit: 86-114	% Rec			03/27/25 0000	03/27/25 1552	CSM
Surrogate: 4-Bromofluorobenzene	90.8	Limit: 78-121	% Rec			03/27/25 0000	03/27/25 1552	CSM
Surrogate: 4-Bromofluorobenzene	90.8	Limit: 80-116	% Rec			03/27/25 0000	03/27/25 1552	CSM

Determination of Total Metals		Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A								
Antimony, total		<0.0020	0.0020	mg/L		04/07/25 1634	04/09/25 2148	KKJ
Arsenic, total	0.0212		0.0040	mg/L		04/07/25 1634	04/09/25 2148	KKJ
Barium, total	0.296		0.0040	mg/L		04/07/25 1634	04/09/25 2148	KKJ
Beryllium, total		<0.0040	0.0040	mg/L		04/07/25 1634	04/09/25 2148	KKJ
Cadmium, total		<0.0008	0.0008	mg/L		04/07/25 1634	04/09/25 2148	KKJ
Chromium, total		<0.0080	0.0080	mg/L		04/07/25 1634	04/09/25 2148	KKJ
Cobalt, total	0.0006		0.0004	mg/L		04/07/25 1634	04/09/25 2148	KKJ
Copper, total		<0.0040	0.0040	mg/L		04/07/25 1634	04/09/25 2148	KKJ
Lead, total		<0.0040	0.0040	mg/L		04/07/25 1634	04/09/25 2148	KKJ
Nickel, total	0.0046		0.0040	mg/L		04/07/25 1634	04/09/25 2148	KKJ
Selenium, total		<0.0040	0.0040	mg/L		04/07/25 1634	04/09/25 2148	KKJ
Silver, total		<0.0040	0.0040	mg/L		04/07/25 1634	04/09/25 2148	KKJ
Thallium, total		<0.0020	0.0020	mg/L		04/07/25 1634	04/09/25 2148	KKJ
Vanadium, total		<0.0200	0.0200	mg/L		04/07/25 1634	04/09/25 2148	KKJ
Zinc, total		<0.0200	0.0200	mg/L		04/07/25 1634	04/09/25 2148	KKJ

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CERTIFICATE OF ANALYSIS

1IC1728

Client Sample ID: MW96-24
Sample Matrix: Aqueous
Lab Sample ID: 1IC1728-10

Collected By: JGH
Collection Date: 03/24/2025 10:25

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 8260D							
Chloromethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1614	CSM
Vinyl Chloride	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1614	CSM
Bromomethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1614	CSM
Chloroethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1614	CSM
Trichlorofluoromethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1614	CSM
1,1-Dichloroethylene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1614	CSM
Acetone	<10.0	10.0	ug/L		03/27/25 0000	03/27/25 1614	CSM
Methyl Iodide	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1614	CSM
Carbon Disulfide	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1614	CSM
Methylene Chloride	<5.0	5.0	ug/L		03/27/25 0000	03/27/25 1614	CSM
Acrylonitrile	<5.0	5.0	ug/L		03/27/25 0000	03/27/25 1614	CSM
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1614	CSM
1,1-Dichloroethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1614	CSM
Vinyl Acetate	<5.0	5.0	ug/L		03/27/25 0000	03/27/25 1614	CSM
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1614	CSM
2-Butanone (MEK)	<10.0	10.0	ug/L		03/27/25 0000	03/27/25 1614	CSM
Bromochloromethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1614	CSM
Chloroform	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1614	CSM
1,1,1-Trichloroethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1614	CSM
Carbon Tetrachloride	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1614	CSM
Benzene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1614	CSM
1,2-Dichloroethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1614	CSM
Trichloroethylene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1614	CSM
1,2-Dichloropropane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1614	CSM
Dibromomethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1614	CSM
Bromodichloromethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1614	CSM
cis-1,3-Dichloropropene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1614	CSM
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L		03/27/25 0000	03/27/25 1614	CSM
Toluene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1614	CSM
trans-1,3-Dichloropropene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1614	CSM
1,1,2-Trichloroethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1614	CSM
Tetrachloroethylene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1614	CSM
2-Hexanone (MBK)	<5.0	5.0	ug/L		03/27/25 0000	03/27/25 1614	CSM
Dibromochloromethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1614	CSM
1,2-Dibromoethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1614	CSM
Chlorobenzene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1614	CSM
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1614	CSM
Ethylbenzene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1614	CSM
Xylenes, total	<2.0	2.0	ug/L		03/27/25 0000	03/27/25 1614	CSM
Styrene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1614	CSM
Bromoform	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1614	CSM
1,2,3-Trichloropropane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1614	CSM

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CERTIFICATE OF ANALYSIS

11C1728

Client Sample ID: MW96-24
Sample Matrix: Aqueous
Lab Sample ID: 11C1728-10

Collected By: JGH
Collection Date: 03/24/2025 10:25

Determination of Volatile Organic Compounds		Result	RL	Units	Note	Prepared	Analyzed	Analyst
trans-1,4-Dichloro-2-butene		<5.0	5.0	ug/L		03/27/25 0000	03/27/25 1614	CSM
1,1,2,2-Tetrachloroethane		<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1614	CSM
1,4-Dichlorobenzene		<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1614	CSM
1,2-Dichlorobenzene		<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1614	CSM
1,2-Dibromo-3-chloropropane		<5.0	5.0	ug/L		03/27/25 0000	03/27/25 1614	CSM
Surrogate: Dibromofluoromethane	93.5	Limit: 75-136	% Rec			03/27/25 0000	03/27/25 1614	CSM
Surrogate: Dibromofluoromethane	93.5	Limit: 57-134	% Rec			03/27/25 0000	03/27/25 1614	CSM
Surrogate: 1,2-Dichloroethane-d4	90.2	Limit: 53-140	% Rec			03/27/25 0000	03/27/25 1614	CSM
Surrogate: 1,2-Dichloroethane-d4	90.2	Limit: 61-142	% Rec			03/27/25 0000	03/27/25 1614	CSM
Surrogate: Toluene-d8	95.8	Limit: 82-121	% Rec			03/27/25 0000	03/27/25 1614	CSM
Surrogate: Toluene-d8	95.8	Limit: 86-114	% Rec			03/27/25 0000	03/27/25 1614	CSM
Surrogate: 4-Bromofluorobenzene	90.9	Limit: 80-116	% Rec			03/27/25 0000	03/27/25 1614	CSM
Surrogate: 4-Bromofluorobenzene	90.9	Limit: 78-121	% Rec			03/27/25 0000	03/27/25 1614	CSM

Determination of Total Metals		Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A								
Antimony, total		<0.0020	0.0020	mg/L		04/07/25 1634	04/09/25 2154	KKJ
Arsenic, total		<0.0040	0.0040	mg/L		04/07/25 1634	04/09/25 2154	KKJ
Barium, total	0.544		0.0040	mg/L		04/07/25 1634	04/09/25 2154	KKJ
Beryllium, total		<0.0040	0.0040	mg/L		04/07/25 1634	04/09/25 2154	KKJ
Cadmium, total		<0.0008	0.0008	mg/L		04/07/25 1634	04/09/25 2154	KKJ
Chromium, total		<0.0080	0.0080	mg/L		04/07/25 1634	04/09/25 2154	KKJ
Cobalt, total		<0.0004	0.0004	mg/L		04/07/25 1634	04/09/25 2154	KKJ
Copper, total		<0.0040	0.0040	mg/L		04/07/25 1634	04/09/25 2154	KKJ
Lead, total		<0.0040	0.0040	mg/L		04/07/25 1634	04/09/25 2154	KKJ
Nickel, total		<0.0040	0.0040	mg/L		04/07/25 1634	04/09/25 2154	KKJ
Selenium, total		<0.0040	0.0040	mg/L		04/07/25 1634	04/09/25 2154	KKJ
Silver, total		<0.0040	0.0040	mg/L		04/07/25 1634	04/09/25 2154	KKJ
Thallium, total		<0.0020	0.0020	mg/L		04/07/25 1634	04/09/25 2154	KKJ
Vanadium, total		<0.0200	0.0200	mg/L		04/07/25 1634	04/09/25 2154	KKJ
Zinc, total		<0.0200	0.0200	mg/L		04/07/25 1634	04/09/25 2154	KKJ

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CERTIFICATE OF ANALYSIS

1IC1728

Client Sample ID: MW88-3
Sample Matrix: Aqueous
Lab Sample ID: 1IC1728-11

Collected By: JGH
Collection Date: 03/24/2025 11:15

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 8260D							
Chloromethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1636	CSM
Vinyl Chloride	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1636	CSM
Bromomethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1636	CSM
Chloroethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1636	CSM
Trichlorofluoromethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1636	CSM
1,1-Dichloroethylene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1636	CSM
Acetone	<10.0	10.0	ug/L		03/27/25 0000	03/27/25 1636	CSM
Methyl Iodide	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1636	CSM
Carbon Disulfide	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1636	CSM
Methylene Chloride	<5.0	5.0	ug/L		03/27/25 0000	03/27/25 1636	CSM
Acrylonitrile	<5.0	5.0	ug/L		03/27/25 0000	03/27/25 1636	CSM
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1636	CSM
1,1-Dichloroethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1636	CSM
Vinyl Acetate	<5.0	5.0	ug/L		03/27/25 0000	03/27/25 1636	CSM
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1636	CSM
2-Butanone (MEK)	<10.0	10.0	ug/L		03/27/25 0000	03/27/25 1636	CSM
Bromochloromethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1636	CSM
Chloroform	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1636	CSM
1,1,1-Trichloroethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1636	CSM
Carbon Tetrachloride	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1636	CSM
Benzene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1636	CSM
1,2-Dichloroethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1636	CSM
Trichloroethylene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1636	CSM
1,2-Dichloropropane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1636	CSM
Dibromomethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1636	CSM
Bromodichloromethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1636	CSM
cis-1,3-Dichloropropene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1636	CSM
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L		03/27/25 0000	03/27/25 1636	CSM
Toluene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1636	CSM
trans-1,3-Dichloropropene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1636	CSM
1,1,2-Trichloroethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1636	CSM
Tetrachloroethylene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1636	CSM
2-Hexanone (MBK)	<5.0	5.0	ug/L		03/27/25 0000	03/27/25 1636	CSM
Dibromochloromethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1636	CSM
1,2-Dibromoethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1636	CSM
Chlorobenzene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1636	CSM
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1636	CSM
Ethylbenzene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1636	CSM
Xylenes, total	<2.0	2.0	ug/L		03/27/25 0000	03/27/25 1636	CSM
Styrene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1636	CSM
Bromoform	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1636	CSM
1,2,3-Trichloropropane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1636	CSM

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CERTIFICATE OF ANALYSIS

11C1728

Client Sample ID: MW88-3
Sample Matrix: Aqueous
Lab Sample ID: 11C1728-11

Collected By: JGH
Collection Date: 03/24/2025 11:15

Determination of Volatile Organic Compounds		Result	RL	Units	Note	Prepared	Analyzed	Analyst
trans-1,4-Dichloro-2-butene		<5.0	5.0	ug/L		03/27/25 0000	03/27/25 1636	CSM
1,1,2,2-Tetrachloroethane		<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1636	CSM
1,4-Dichlorobenzene		<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1636	CSM
1,2-Dichlorobenzene		<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1636	CSM
1,2-Dibromo-3-chloropropane		<5.0	5.0	ug/L		03/27/25 0000	03/27/25 1636	CSM
Surrogate: Dibromofluoromethane	91.8	Limit: 75-136	% Rec			03/27/25 0000	03/27/25 1636	CSM
Surrogate: Dibromofluoromethane	91.8	Limit: 57-134	% Rec			03/27/25 0000	03/27/25 1636	CSM
Surrogate: 1,2-Dichloroethane-d4	87.7	Limit: 61-142	% Rec			03/27/25 0000	03/27/25 1636	CSM
Surrogate: 1,2-Dichloroethane-d4	87.7	Limit: 53-140	% Rec			03/27/25 0000	03/27/25 1636	CSM
Surrogate: Toluene-d8	97.4	Limit: 86-114	% Rec			03/27/25 0000	03/27/25 1636	CSM
Surrogate: Toluene-d8	97.4	Limit: 82-121	% Rec			03/27/25 0000	03/27/25 1636	CSM
Surrogate: 4-Bromofluorobenzene	88.7	Limit: 80-116	% Rec			03/27/25 0000	03/27/25 1636	CSM
Surrogate: 4-Bromofluorobenzene	88.7	Limit: 78-121	% Rec			03/27/25 0000	03/27/25 1636	CSM

Determination of Total Metals		Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A								
Antimony, total		<0.0020	0.0020	mg/L		04/07/25 1634	04/09/25 2200	KKJ
Arsenic, total		<0.0040	0.0040	mg/L		04/07/25 1634	04/09/25 2200	KKJ
Barium, total	0.146		0.0040	mg/L		04/07/25 1634	04/09/25 2200	KKJ
Beryllium, total		<0.0040	0.0040	mg/L		04/07/25 1634	04/09/25 2200	KKJ
Cadmium, total		<0.0008	0.0008	mg/L		04/07/25 1634	04/09/25 2200	KKJ
Chromium, total		<0.0080	0.0080	mg/L		04/07/25 1634	04/09/25 2200	KKJ
Cobalt, total		<0.0004	0.0004	mg/L		04/07/25 1634	04/09/25 2200	KKJ
Copper, total		<0.0040	0.0040	mg/L		04/07/25 1634	04/09/25 2200	KKJ
Lead, total		<0.0040	0.0040	mg/L		04/07/25 1634	04/09/25 2200	KKJ
Nickel, total		<0.0040	0.0040	mg/L		04/07/25 1634	04/09/25 2200	KKJ
Selenium, total		<0.0040	0.0040	mg/L		04/07/25 1634	04/09/25 2200	KKJ
Silver, total		<0.0040	0.0040	mg/L		04/07/25 1634	04/09/25 2200	KKJ
Thallium, total		<0.0020	0.0020	mg/L		04/07/25 1634	04/09/25 2200	KKJ
Vanadium, total		<0.0200	0.0200	mg/L		04/07/25 1634	04/09/25 2200	KKJ
Zinc, total		<0.0200	0.0200	mg/L		04/07/25 1634	04/09/25 2200	KKJ

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CERTIFICATE OF ANALYSIS

1IC1728

Client Sample ID: MW96-23
Sample Matrix: Aqueous
Lab Sample ID: 1IC1728-12

Collected By: JGH
Collection Date: 03/24/2025 10:43

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 8260D							
Chloromethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1658	CSM
Vinyl Chloride	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1658	CSM
Bromomethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1658	CSM
Chloroethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1658	CSM
Trichlorofluoromethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1658	CSM
1,1-Dichloroethylene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1658	CSM
Acetone	<10.0	10.0	ug/L		03/27/25 0000	03/27/25 1658	CSM
Methyl Iodide	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1658	CSM
Carbon Disulfide	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1658	CSM
Methylene Chloride	<5.0	5.0	ug/L		03/27/25 0000	03/27/25 1658	CSM
Acrylonitrile	<5.0	5.0	ug/L		03/27/25 0000	03/27/25 1658	CSM
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1658	CSM
1,1-Dichloroethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1658	CSM
Vinyl Acetate	<5.0	5.0	ug/L		03/27/25 0000	03/27/25 1658	CSM
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1658	CSM
2-Butanone (MEK)	<10.0	10.0	ug/L		03/27/25 0000	03/27/25 1658	CSM
Bromochloromethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1658	CSM
Chloroform	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1658	CSM
1,1,1-Trichloroethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1658	CSM
Carbon Tetrachloride	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1658	CSM
Benzene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1658	CSM
1,2-Dichloroethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1658	CSM
Trichloroethylene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1658	CSM
1,2-Dichloropropane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1658	CSM
Dibromomethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1658	CSM
Bromodichloromethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1658	CSM
cis-1,3-Dichloropropene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1658	CSM
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L		03/27/25 0000	03/27/25 1658	CSM
Toluene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1658	CSM
trans-1,3-Dichloropropene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1658	CSM
1,1,2-Trichloroethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1658	CSM
Tetrachloroethylene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1658	CSM
2-Hexanone (MBK)	<5.0	5.0	ug/L		03/27/25 0000	03/27/25 1658	CSM
Dibromochloromethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1658	CSM
1,2-Dibromoethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1658	CSM
Chlorobenzene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1658	CSM
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1658	CSM
Ethylbenzene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1658	CSM
Xylenes, total	<2.0	2.0	ug/L		03/27/25 0000	03/27/25 1658	CSM
Styrene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1658	CSM
Bromoform	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1658	CSM
1,2,3-Trichloropropane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1658	CSM

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CERTIFICATE OF ANALYSIS

11C1728

Client Sample ID: MW96-23
Sample Matrix: Aqueous
Lab Sample ID: 11C1728-12

Collected By: JGH
Collection Date: 03/24/2025 10:43

Determination of Volatile Organic Compounds		Result	RL	Units	Note	Prepared	Analyzed	Analyst
trans-1,4-Dichloro-2-butene		<5.0	5.0	ug/L		03/27/25 0000	03/27/25 1658	CSM
1,1,2,2-Tetrachloroethane		<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1658	CSM
1,4-Dichlorobenzene		<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1658	CSM
1,2-Dichlorobenzene		<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1658	CSM
1,2-Dibromo-3-chloropropane		<5.0	5.0	ug/L		03/27/25 0000	03/27/25 1658	CSM
Surrogate: Dibromofluoromethane	94.2	Limit: 75-136	% Rec			03/27/25 0000	03/27/25 1658	CSM
Surrogate: Dibromofluoromethane	94.2	Limit: 57-134	% Rec			03/27/25 0000	03/27/25 1658	CSM
Surrogate: 1,2-Dichloroethane-d4	91.7	Limit: 53-140	% Rec			03/27/25 0000	03/27/25 1658	CSM
Surrogate: 1,2-Dichloroethane-d4	91.7	Limit: 61-142	% Rec			03/27/25 0000	03/27/25 1658	CSM
Surrogate: Toluene-d8	95.6	Limit: 82-121	% Rec			03/27/25 0000	03/27/25 1658	CSM
Surrogate: Toluene-d8	95.6	Limit: 86-114	% Rec			03/27/25 0000	03/27/25 1658	CSM
Surrogate: 4-Bromofluorobenzene	88.2	Limit: 78-121	% Rec			03/27/25 0000	03/27/25 1658	CSM
Surrogate: 4-Bromofluorobenzene	88.2	Limit: 80-116	% Rec			03/27/25 0000	03/27/25 1658	CSM

Determination of Total Metals		Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A								
Antimony, total		<0.0020	0.0020	mg/L		04/07/25 1634	04/09/25 2206	KKJ
Arsenic, total	0.0377		0.0040	mg/L		04/07/25 1634	04/09/25 2206	KKJ
Barium, total	0.603		0.0040	mg/L		04/07/25 1634	04/09/25 2206	KKJ
Beryllium, total		<0.0040	0.0040	mg/L		04/07/25 1634	04/09/25 2206	KKJ
Cadmium, total		<0.0008	0.0008	mg/L		04/07/25 1634	04/09/25 2206	KKJ
Chromium, total		<0.0080	0.0080	mg/L		04/07/25 1634	04/09/25 2206	KKJ
Cobalt, total		<0.0004	0.0004	mg/L		04/07/25 1634	04/09/25 2206	KKJ
Copper, total		<0.0040	0.0040	mg/L		04/07/25 1634	04/09/25 2206	KKJ
Lead, total		<0.0040	0.0040	mg/L		04/07/25 1634	04/09/25 2206	KKJ
Nickel, total		<0.0040	0.0040	mg/L		04/07/25 1634	04/09/25 2206	KKJ
Selenium, total		<0.0040	0.0040	mg/L		04/07/25 1634	04/09/25 2206	KKJ
Silver, total		<0.0040	0.0040	mg/L		04/07/25 1634	04/09/25 2206	KKJ
Thallium, total		<0.0020	0.0020	mg/L		04/07/25 1634	04/09/25 2206	KKJ
Vanadium, total		<0.0200	0.0200	mg/L		04/07/25 1634	04/09/25 2206	KKJ
Zinc, total		<0.0200	0.0200	mg/L		04/07/25 1634	04/09/25 2206	KKJ

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CERTIFICATE OF ANALYSIS

1IC1728

Client Sample ID: MW21-43
Sample Matrix: Aqueous
Lab Sample ID: 1IC1728-13

Collected By: JGH
Collection Date: 03/24/2025 12:35

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 8260D							
Chloromethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1721	CSM
Vinyl Chloride	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1721	CSM
Bromomethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1721	CSM
Chloroethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1721	CSM
Trichlorofluoromethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1721	CSM
1,1-Dichloroethylene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1721	CSM
Acetone	<10.0	10.0	ug/L		03/27/25 0000	03/27/25 1721	CSM
Methyl Iodide	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1721	CSM
Carbon Disulfide	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1721	CSM
Methylene Chloride	<5.0	5.0	ug/L		03/27/25 0000	03/27/25 1721	CSM
Acrylonitrile	<5.0	5.0	ug/L		03/27/25 0000	03/27/25 1721	CSM
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1721	CSM
1,1-Dichloroethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1721	CSM
Vinyl Acetate	<5.0	5.0	ug/L		03/27/25 0000	03/27/25 1721	CSM
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1721	CSM
2-Butanone (MEK)	<10.0	10.0	ug/L		03/27/25 0000	03/27/25 1721	CSM
Bromochloromethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1721	CSM
Chloroform	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1721	CSM
1,1,1-Trichloroethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1721	CSM
Carbon Tetrachloride	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1721	CSM
Benzene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1721	CSM
1,2-Dichloroethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1721	CSM
Trichloroethylene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1721	CSM
1,2-Dichloropropane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1721	CSM
Dibromomethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1721	CSM
Bromodichloromethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1721	CSM
cis-1,3-Dichloropropene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1721	CSM
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L		03/27/25 0000	03/27/25 1721	CSM
Toluene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1721	CSM
trans-1,3-Dichloropropene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1721	CSM
1,1,2-Trichloroethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1721	CSM
Tetrachloroethylene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1721	CSM
2-Hexanone (MBK)	<5.0	5.0	ug/L		03/27/25 0000	03/27/25 1721	CSM
Dibromochloromethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1721	CSM
1,2-Dibromoethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1721	CSM
Chlorobenzene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1721	CSM
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1721	CSM
Ethylbenzene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1721	CSM
Xylenes, total	<2.0	2.0	ug/L		03/27/25 0000	03/27/25 1721	CSM
Styrene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1721	CSM
Bromoform	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1721	CSM
1,2,3-Trichloropropane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1721	CSM

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CERTIFICATE OF ANALYSIS

11C1728

Client Sample ID: MW21-43
Sample Matrix: Aqueous
Lab Sample ID: 11C1728-13

Collected By: JGH
Collection Date: 03/24/2025 12:35

Determination of Volatile Organic Compounds		Result	RL	Units	Note	Prepared	Analyzed	Analyst
trans-1,4-Dichloro-2-butene		<5.0	5.0	ug/L		03/27/25 0000	03/27/25 1721	CSM
1,1,2,2-Tetrachloroethane		<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1721	CSM
1,4-Dichlorobenzene		<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1721	CSM
1,2-Dichlorobenzene		<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1721	CSM
1,2-Dibromo-3-chloropropane		<5.0	5.0	ug/L		03/27/25 0000	03/27/25 1721	CSM
Surrogate: Dibromofluoromethane	96.7	Limit: 57-134	% Rec			03/27/25 0000	03/27/25 1721	CSM
Surrogate: Dibromofluoromethane	96.7	Limit: 75-136	% Rec			03/27/25 0000	03/27/25 1721	CSM
Surrogate: 1,2-Dichloroethane-d4	91.0	Limit: 53-140	% Rec			03/27/25 0000	03/27/25 1721	CSM
Surrogate: 1,2-Dichloroethane-d4	91.0	Limit: 61-142	% Rec			03/27/25 0000	03/27/25 1721	CSM
Surrogate: Toluene-d8	94.2	Limit: 86-114	% Rec			03/27/25 0000	03/27/25 1721	CSM
Surrogate: Toluene-d8	94.2	Limit: 82-121	% Rec			03/27/25 0000	03/27/25 1721	CSM
Surrogate: 4-Bromofluorobenzene	88.8	Limit: 78-121	% Rec			03/27/25 0000	03/27/25 1721	CSM
Surrogate: 4-Bromofluorobenzene	88.8	Limit: 80-116	% Rec			03/27/25 0000	03/27/25 1721	CSM

Determination of Total Metals		Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A								
Antimony, total		<0.0020	0.0020	mg/L		04/07/25 1634	04/09/25 2212	KKJ
Arsenic, total	0.0043		0.0040	mg/L		04/07/25 1634	04/09/25 2212	KKJ
Barium, total	0.211		0.0040	mg/L		04/07/25 1634	04/09/25 2212	KKJ
Beryllium, total		<0.0040	0.0040	mg/L		04/07/25 1634	04/09/25 2212	KKJ
Cadmium, total		<0.0008	0.0008	mg/L		04/07/25 1634	04/09/25 2212	KKJ
Chromium, total		<0.0080	0.0080	mg/L		04/07/25 1634	04/09/25 2212	KKJ
Cobalt, total	0.0007		0.0004	mg/L		04/07/25 1634	04/09/25 2212	KKJ
Copper, total		<0.0040	0.0040	mg/L		04/07/25 1634	04/09/25 2212	KKJ
Lead, total		<0.0040	0.0040	mg/L		04/07/25 1634	04/09/25 2212	KKJ
Nickel, total	0.0068		0.0040	mg/L		04/07/25 1634	04/09/25 2212	KKJ
Selenium, total		<0.0040	0.0040	mg/L		04/07/25 1634	04/09/25 2212	KKJ
Silver, total		<0.0040	0.0040	mg/L		04/07/25 1634	04/09/25 2212	KKJ
Thallium, total		<0.0020	0.0020	mg/L		04/07/25 1634	04/09/25 2212	KKJ
Vanadium, total		<0.0200	0.0200	mg/L		04/07/25 1634	04/09/25 2212	KKJ
Zinc, total		<0.0200	0.0200	mg/L		04/07/25 1634	04/09/25 2212	KKJ

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CERTIFICATE OF ANALYSIS

1IC1728

Client Sample ID: GU-3
Sample Matrix: Aqueous
Lab Sample ID: 1IC1728-14

Collected By: JGH
Collection Date: 03/24/2025 12:09

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 8260D							
Chloromethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1743	CSM
Vinyl Chloride	1.4	1.0	ug/L		03/27/25 0000	03/27/25 1743	CSM
Bromomethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1743	CSM
Chloroethane	1.1	1.0	ug/L		03/27/25 0000	03/27/25 1743	CSM
Trichlorofluoromethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1743	CSM
1,1-Dichloroethylene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1743	CSM
Acetone	<10.0	10.0	ug/L		03/27/25 0000	03/27/25 1743	CSM
Methyl Iodide	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1743	CSM
Carbon Disulfide	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1743	CSM
Methylene Chloride	<5.0	5.0	ug/L		03/27/25 0000	03/27/25 1743	CSM
Acrylonitrile	<5.0	5.0	ug/L		03/27/25 0000	03/27/25 1743	CSM
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1743	CSM
1,1-Dichloroethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1743	CSM
Vinyl Acetate	<5.0	5.0	ug/L		03/27/25 0000	03/27/25 1743	CSM
cis-1,2-Dichloroethylene	3.8	1.0	ug/L		03/27/25 0000	03/27/25 1743	CSM
2-Butanone (MEK)	<10.0	10.0	ug/L		03/27/25 0000	03/27/25 1743	CSM
Bromochloromethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1743	CSM
Chloroform	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1743	CSM
1,1,1-Trichloroethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1743	CSM
Carbon Tetrachloride	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1743	CSM
Benzene	7.8	1.0	ug/L		03/27/25 0000	03/27/25 1743	CSM
1,2-Dichloroethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1743	CSM
Trichloroethylene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1743	CSM
1,2-Dichloropropane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1743	CSM
Dibromomethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1743	CSM
Bromodichloromethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1743	CSM
cis-1,3-Dichloropropene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1743	CSM
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L		03/27/25 0000	03/27/25 1743	CSM
Toluene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1743	CSM
trans-1,3-Dichloropropene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1743	CSM
1,1,2-Trichloroethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1743	CSM
Tetrachloroethylene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1743	CSM
2-Hexanone (MBK)	<5.0	5.0	ug/L		03/27/25 0000	03/27/25 1743	CSM
Dibromochloromethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1743	CSM
1,2-Dibromoethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1743	CSM
Chlorobenzene	1.6	1.0	ug/L		03/27/25 0000	03/27/25 1743	CSM
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1743	CSM
Ethylbenzene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1743	CSM
Xylenes, total	<2.0	2.0	ug/L		03/27/25 0000	03/27/25 1743	CSM
Styrene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1743	CSM
Bromoform	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1743	CSM
1,2,3-Trichloropropane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1743	CSM

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CERTIFICATE OF ANALYSIS

11C1728

Client Sample ID: GU-3
Sample Matrix: Aqueous
Lab Sample ID: 11C1728-14

Collected By: JGH
Collection Date: 03/24/2025 12:09

Determination of Volatile Organic Compounds		Result	RL	Units	Note	Prepared	Analyzed	Analyst
trans-1,4-Dichloro-2-butene		<5.0	5.0	ug/L		03/27/25 0000	03/27/25 1743	CSM
1,1,2,2-Tetrachloroethane		<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1743	CSM
1,4-Dichlorobenzene	1.1		1.0	ug/L		03/27/25 0000	03/27/25 1743	CSM
1,2-Dichlorobenzene		<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1743	CSM
1,2-Dibromo-3-chloropropane		<5.0	5.0	ug/L		03/27/25 0000	03/27/25 1743	CSM
Surrogate: Dibromofluoromethane	100	Limit: 75-136	% Rec			03/27/25 0000	03/27/25 1743	CSM
Surrogate: Dibromofluoromethane	100	Limit: 57-134	% Rec			03/27/25 0000	03/27/25 1743	CSM
Surrogate: 1,2-Dichloroethane-d4	97.3	Limit: 61-142	% Rec			03/27/25 0000	03/27/25 1743	CSM
Surrogate: 1,2-Dichloroethane-d4	97.3	Limit: 53-140	% Rec			03/27/25 0000	03/27/25 1743	CSM
Surrogate: Toluene-d8	94.5	Limit: 82-121	% Rec			03/27/25 0000	03/27/25 1743	CSM
Surrogate: Toluene-d8	94.5	Limit: 86-114	% Rec			03/27/25 0000	03/27/25 1743	CSM
Surrogate: 4-Bromofluorobenzene	89.8	Limit: 78-121	% Rec			03/27/25 0000	03/27/25 1743	CSM
Surrogate: 4-Bromofluorobenzene	89.8	Limit: 80-116	% Rec			03/27/25 0000	03/27/25 1743	CSM

Determination of Total Metals		Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A								
Antimony, total		<0.0020	0.0020	mg/L		04/07/25 1634	04/09/25 2219	KKJ
Arsenic, total		<0.0040	0.0040	mg/L		04/07/25 1634	04/09/25 2219	KKJ
Barium, total	0.719		0.0040	mg/L		04/07/25 1634	04/09/25 2219	KKJ
Beryllium, total		<0.0040	0.0040	mg/L		04/07/25 1634	04/09/25 2219	KKJ
Cadmium, total		<0.0008	0.0008	mg/L		04/07/25 1634	04/09/25 2219	KKJ
Chromium, total		<0.0080	0.0080	mg/L		04/07/25 1634	04/09/25 2219	KKJ
Cobalt, total		<0.0004	0.0004	mg/L		04/07/25 1634	04/09/25 2219	KKJ
Copper, total		<0.0040	0.0040	mg/L		04/07/25 1634	04/09/25 2219	KKJ
Lead, total		<0.0040	0.0040	mg/L		04/07/25 1634	04/09/25 2219	KKJ
Nickel, total	0.0306		0.0040	mg/L		04/07/25 1634	04/09/25 2219	KKJ
Selenium, total		<0.0040	0.0040	mg/L		04/07/25 1634	04/09/25 2219	KKJ
Silver, total		<0.0040	0.0040	mg/L		04/07/25 1634	04/09/25 2219	KKJ
Thallium, total		<0.0020	0.0020	mg/L		04/07/25 1634	04/09/25 2219	KKJ
Vanadium, total		<0.0200	0.0200	mg/L		04/07/25 1634	04/09/25 2219	KKJ
Zinc, total		<0.0200	0.0200	mg/L		04/07/25 1634	04/09/25 2219	KKJ

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CERTIFICATE OF ANALYSIS

11C1728

Client Sample ID: PEC-3
Sample Matrix: Aqueous
Lab Sample ID: 11C1728-15

Collected By: JGH
Collection Date: 03/24/2025 12:21

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 8260D							
Chloromethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1805	CSM
Vinyl Chloride	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1805	CSM
Bromomethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1805	CSM
Chloroethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1805	CSM
Trichlorofluoromethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1805	CSM
1,1-Dichloroethylene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1805	CSM
Acetone	<10.0	10.0	ug/L		03/27/25 0000	03/27/25 1805	CSM
Methyl Iodide	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1805	CSM
Carbon Disulfide	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1805	CSM
Methylene Chloride	<5.0	5.0	ug/L		03/27/25 0000	03/27/25 1805	CSM
Acrylonitrile	<5.0	5.0	ug/L		03/27/25 0000	03/27/25 1805	CSM
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1805	CSM
1,1-Dichloroethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1805	CSM
Vinyl Acetate	<5.0	5.0	ug/L		03/27/25 0000	03/27/25 1805	CSM
cis-1,2-Dichloroethylene	1.4	1.0	ug/L		03/27/25 0000	03/27/25 1805	CSM
2-Butanone (MEK)	<10.0	10.0	ug/L		03/27/25 0000	03/27/25 1805	CSM
Bromochloromethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1805	CSM
Chloroform	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1805	CSM
1,1,1-Trichloroethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1805	CSM
Carbon Tetrachloride	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1805	CSM
Benzene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1805	CSM
1,2-Dichloroethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1805	CSM
Trichloroethylene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1805	CSM
1,2-Dichloropropane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1805	CSM
Dibromomethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1805	CSM
Bromodichloromethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1805	CSM
cis-1,3-Dichloropropene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1805	CSM
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L		03/27/25 0000	03/27/25 1805	CSM
Toluene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1805	CSM
trans-1,3-Dichloropropene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1805	CSM
1,1,2-Trichloroethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1805	CSM
Tetrachloroethylene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1805	CSM
2-Hexanone (MBK)	<5.0	5.0	ug/L		03/27/25 0000	03/27/25 1805	CSM
Dibromochloromethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1805	CSM
1,2-Dibromoethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1805	CSM
Chlorobenzene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1805	CSM
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1805	CSM
Ethylbenzene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1805	CSM
Xylenes, total	<2.0	2.0	ug/L		03/27/25 0000	03/27/25 1805	CSM
Styrene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1805	CSM
Bromoform	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1805	CSM
1,2,3-Trichloropropane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1805	CSM

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CERTIFICATE OF ANALYSIS

11C1728

Client Sample ID: PEC-3
Sample Matrix: Aqueous
Lab Sample ID: 11C1728-15

Collected By: JGH
Collection Date: 03/24/2025 12:21

Determination of Volatile Organic Compounds		Result	RL	Units	Note	Prepared	Analyzed	Analyst
trans-1,4-Dichloro-2-butene		<5.0	5.0	ug/L		03/27/25 0000	03/27/25 1805	CSM
1,1,2,2-Tetrachloroethane		<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1805	CSM
1,4-Dichlorobenzene		<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1805	CSM
1,2-Dichlorobenzene		<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1805	CSM
1,2-Dibromo-3-chloropropane		<5.0	5.0	ug/L		03/27/25 0000	03/27/25 1805	CSM
Surrogate: Dibromofluoromethane	100	Limit: 57-134	% Rec			03/27/25 0000	03/27/25 1805	CSM
Surrogate: Dibromofluoromethane	100	Limit: 75-136	% Rec			03/27/25 0000	03/27/25 1805	CSM
Surrogate: 1,2-Dichloroethane-d4	93.9	Limit: 53-140	% Rec			03/27/25 0000	03/27/25 1805	CSM
Surrogate: 1,2-Dichloroethane-d4	93.9	Limit: 61-142	% Rec			03/27/25 0000	03/27/25 1805	CSM
Surrogate: Toluene-d8	95.3	Limit: 86-114	% Rec			03/27/25 0000	03/27/25 1805	CSM
Surrogate: Toluene-d8	95.3	Limit: 82-121	% Rec			03/27/25 0000	03/27/25 1805	CSM
Surrogate: 4-Bromofluorobenzene	91.3	Limit: 78-121	% Rec			03/27/25 0000	03/27/25 1805	CSM
Surrogate: 4-Bromofluorobenzene	91.3	Limit: 80-116	% Rec			03/27/25 0000	03/27/25 1805	CSM

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CERTIFICATE OF ANALYSIS

11C1728

Client Sample ID: GU-4
Sample Matrix: Aqueous
Lab Sample ID: 11C1728-16

Collected By: JGH
Collection Date: 03/24/2025 11:57

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 8260D							
Chloromethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1827	CSM
Vinyl Chloride	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1827	CSM
Bromomethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1827	CSM
Chloroethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1827	CSM
Trichlorofluoromethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1827	CSM
1,1-Dichloroethylene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1827	CSM
Acetone	<10.0	10.0	ug/L		03/27/25 0000	03/27/25 1827	CSM
Methyl Iodide	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1827	CSM
Carbon Disulfide	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1827	CSM
Methylene Chloride	<5.0	5.0	ug/L		03/27/25 0000	03/27/25 1827	CSM
Acrylonitrile	<5.0	5.0	ug/L		03/27/25 0000	03/27/25 1827	CSM
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1827	CSM
1,1-Dichloroethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1827	CSM
Vinyl Acetate	<5.0	5.0	ug/L		03/27/25 0000	03/27/25 1827	CSM
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1827	CSM
2-Butanone (MEK)	<10.0	10.0	ug/L		03/27/25 0000	03/27/25 1827	CSM
Bromochloromethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1827	CSM
Chloroform	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1827	CSM
1,1,1-Trichloroethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1827	CSM
Carbon Tetrachloride	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1827	CSM
Benzene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1827	CSM
1,2-Dichloroethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1827	CSM
Trichloroethylene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1827	CSM
1,2-Dichloropropane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1827	CSM
Dibromomethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1827	CSM
Bromodichloromethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1827	CSM
cis-1,3-Dichloropropene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1827	CSM
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L		03/27/25 0000	03/27/25 1827	CSM
Toluene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1827	CSM
trans-1,3-Dichloropropene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1827	CSM
1,1,2-Trichloroethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1827	CSM
Tetrachloroethylene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1827	CSM
2-Hexanone (MBK)	<5.0	5.0	ug/L		03/27/25 0000	03/27/25 1827	CSM
Dibromochloromethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1827	CSM
1,2-Dibromoethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1827	CSM
Chlorobenzene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1827	CSM
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1827	CSM
Ethylbenzene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1827	CSM
Xylenes, total	<2.0	2.0	ug/L		03/27/25 0000	03/27/25 1827	CSM
Styrene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1827	CSM
Bromoform	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1827	CSM
1,2,3-Trichloropropane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1827	CSM

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CERTIFICATE OF ANALYSIS

11C1728

Client Sample ID: GU-4
Sample Matrix: Aqueous
Lab Sample ID: 11C1728-16

Collected By: JGH
Collection Date: 03/24/2025 11:57

Determination of Volatile Organic Compounds		Result	RL	Units	Note	Prepared	Analyzed	Analyst
trans-1,4-Dichloro-2-butene		<5.0	5.0	ug/L		03/27/25 0000	03/27/25 1827	CSM
1,1,2,2-Tetrachloroethane		<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1827	CSM
1,4-Dichlorobenzene		<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1827	CSM
1,2-Dichlorobenzene		<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1827	CSM
1,2-Dibromo-3-chloropropane		<5.0	5.0	ug/L		03/27/25 0000	03/27/25 1827	CSM
Surrogate: Dibromofluoromethane	96.3	Limit: 57-134	% Rec			03/27/25 0000	03/27/25 1827	CSM
Surrogate: Dibromofluoromethane	96.3	Limit: 75-136	% Rec			03/27/25 0000	03/27/25 1827	CSM
Surrogate: 1,2-Dichloroethane-d4	92.3	Limit: 53-140	% Rec			03/27/25 0000	03/27/25 1827	CSM
Surrogate: 1,2-Dichloroethane-d4	92.3	Limit: 61-142	% Rec			03/27/25 0000	03/27/25 1827	CSM
Surrogate: Toluene-d8	96.9	Limit: 86-114	% Rec			03/27/25 0000	03/27/25 1827	CSM
Surrogate: Toluene-d8	96.9	Limit: 82-121	% Rec			03/27/25 0000	03/27/25 1827	CSM
Surrogate: 4-Bromofluorobenzene	88.4	Limit: 78-121	% Rec			03/27/25 0000	03/27/25 1827	CSM
Surrogate: 4-Bromofluorobenzene	88.4	Limit: 80-116	% Rec			03/27/25 0000	03/27/25 1827	CSM

Determination of Total Metals		Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A								
Antimony, total		<0.0010	0.0010	mg/L		04/07/25 1634	06/16/25 1916	RVV
Arsenic, total	0.0023		0.0020	mg/L		04/07/25 1634	06/16/25 1916	RVV
Barium, total	0.350		0.100	mg/L		04/07/25 1634	06/17/25 1239	RVV
Beryllium, total		<0.0005	0.0005	mg/L		04/07/25 1634	06/16/25 1916	RVV
Cadmium, total	0.0002		0.0002	mg/L		04/07/25 1634	06/16/25 1916	RVV
Chromium, total	0.0076		0.0010	mg/L		04/07/25 1634	06/16/25 1916	RVV
Cobalt, total	0.0029		0.0005	mg/L		04/07/25 1634	06/16/25 1916	RVV
Copper, total	0.0065		0.0050	mg/L		04/07/25 1634	06/16/25 1916	RVV
Lead, total	0.0038		0.0010	mg/L		04/07/25 1634	06/16/25 1916	RVV
Nickel, total	0.0095		0.0050	mg/L		04/07/25 1634	06/16/25 1916	RVV
Selenium, total		<0.0020	0.0020	mg/L		04/07/25 1634	06/16/25 1916	RVV
Silver, total		<0.0050	0.0050	mg/L		04/07/25 1634	06/16/25 1916	RVV
Thallium, total		<0.0005	0.0005	mg/L		04/07/25 1634	06/16/25 1916	RVV
Vanadium, total	0.0130		0.0020	mg/L		04/07/25 1634	06/16/25 1916	RVV
Zinc, total	0.243		0.0050	mg/L		04/07/25 1634	06/16/25 1916	RVV

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CERTIFICATE OF ANALYSIS

1IC1728

Client Sample ID: SRAMP #1
Sample Matrix: Aqueous
Lab Sample ID: 1IC1728-17

Collected By: JGH
Collection Date: 03/24/2025 13:49

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 8260D							
Dichlorodifluoromethane	16.9	1.0	ug/L		03/27/25 0000	03/27/25 1850	CSM
Chloromethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1850	CSM
Vinyl Chloride	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1850	CSM
Bromomethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1850	CSM
Chloroethane	1.6	1.0	ug/L		03/27/25 0000	03/27/25 1850	CSM
Trichlorofluoromethane	11.1	1.0	ug/L		03/27/25 0000	03/27/25 1850	CSM
1,1-Dichloroethylene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1850	CSM
Acetone	<10.0	10.0	ug/L		03/27/25 0000	03/27/25 1850	CSM
Methyl Iodide	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1850	CSM
Carbon Disulfide	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1850	CSM
Methylene Chloride	<5.0	5.0	ug/L		03/27/25 0000	03/27/25 1850	CSM
Acrylonitrile	<5.0	5.0	ug/L		03/27/25 0000	03/27/25 1850	CSM
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1850	CSM
1,1-Dichloroethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1850	CSM
Vinyl Acetate	<5.0	5.0	ug/L		03/27/25 0000	03/27/25 1850	CSM
cis-1,2-Dichloroethylene	2.5	1.0	ug/L		03/27/25 0000	03/27/25 1850	CSM
2-Butanone (MEK)	<10.0	10.0	ug/L		03/27/25 0000	03/27/25 1850	CSM
Bromochloromethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1850	CSM
Chloroform	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1850	CSM
1,1,1-Trichloroethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1850	CSM
Carbon Tetrachloride	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1850	CSM
Benzene	5.6	1.0	ug/L		03/27/25 0000	03/27/25 1850	CSM
1,2-Dichloroethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1850	CSM
Trichloroethylene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1850	CSM
1,2-Dichloropropane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1850	CSM
Dibromomethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1850	CSM
Bromodichloromethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1850	CSM
cis-1,3-Dichloropropene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1850	CSM
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L		03/27/25 0000	03/27/25 1850	CSM
Toluene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1850	CSM
trans-1,3-Dichloropropene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1850	CSM
1,1,2-Trichloroethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1850	CSM
Tetrachloroethylene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1850	CSM
2-Hexanone (MBK)	<5.0	5.0	ug/L		03/27/25 0000	03/27/25 1850	CSM
Dibromochloromethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1850	CSM
1,2-Dibromoethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1850	CSM
Chlorobenzene	2.4	1.0	ug/L		03/27/25 0000	03/27/25 1850	CSM
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1850	CSM
Ethylbenzene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1850	CSM
Xylenes, total	<2.0	2.0	ug/L		03/27/25 0000	03/27/25 1850	CSM
Styrene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1850	CSM
Bromoform	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1850	CSM

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CERTIFICATE OF ANALYSIS

11C1728

Client Sample ID: SRAMP #1
Sample Matrix: Aqueous
Lab Sample ID: 11C1728-17

Collected By: JGH
Collection Date: 03/24/2025 13:49

Determination of Volatile Organic Compounds		Result	RL	Units	Note	Prepared	Analyzed	Analyst
1,2,3-Trichloropropane		<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1850	CSM
trans-1,4-Dichloro-2-butene		<5.0	5.0	ug/L		03/27/25 0000	03/27/25 1850	CSM
1,1,2,2-Tetrachloroethane		<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1850	CSM
1,4-Dichlorobenzene	9.1		1.0	ug/L		03/27/25 0000	03/27/25 1850	CSM
1,2-Dichlorobenzene		<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1850	CSM
1,2-Dibromo-3-chloropropane		<5.0	5.0	ug/L		03/27/25 0000	03/27/25 1850	CSM
Surrogate: Dibromofluoromethane	101	Limit: 57-134	% Rec			03/27/25 0000	03/27/25 1850	CSM
Surrogate: Dibromofluoromethane	101	Limit: 75-136	% Rec			03/27/25 0000	03/27/25 1850	CSM
Surrogate: 1,2-Dichloroethane-d4	97.1	Limit: 61-142	% Rec			03/27/25 0000	03/27/25 1850	CSM
Surrogate: 1,2-Dichloroethane-d4	97.1	Limit: 53-140	% Rec			03/27/25 0000	03/27/25 1850	CSM
Surrogate: Toluene-d8	96.1	Limit: 86-114	% Rec			03/27/25 0000	03/27/25 1850	CSM
Surrogate: Toluene-d8	96.1	Limit: 82-121	% Rec			03/27/25 0000	03/27/25 1850	CSM
Surrogate: 4-Bromofluorobenzene	94.4	Limit: 80-116	% Rec			03/27/25 0000	03/27/25 1850	CSM
Surrogate: 4-Bromofluorobenzene	94.4	Limit: 78-121	% Rec			03/27/25 0000	03/27/25 1850	CSM

Determination of Total Metals		Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A								
Antimony, total		<0.0010	0.0010	mg/L		04/07/25 1634	06/16/25 1919	RVV
Arsenic, total	0.0056		0.0020	mg/L		04/07/25 1634	06/16/25 1919	RVV
Barium, total	0.139		0.0010	mg/L		04/07/25 1634	06/16/25 1919	RVV
Beryllium, total		<0.0005	0.0005	mg/L		04/07/25 1634	06/16/25 1919	RVV
Cadmium, total		<0.0002	0.0002	mg/L		04/07/25 1634	06/16/25 1919	RVV
Chromium, total	0.0012		0.0010	mg/L		04/07/25 1634	06/16/25 1919	RVV
Cobalt, total	0.0017		0.0005	mg/L		04/07/25 1634	06/16/25 1919	RVV
Copper, total		<0.0050	0.0050	mg/L		04/07/25 1634	06/16/25 1919	RVV
Lead, total		<0.0010	0.0010	mg/L		04/07/25 1634	06/16/25 1919	RVV
Nickel, total	0.0065		0.0050	mg/L		04/07/25 1634	06/16/25 1919	RVV
Selenium, total		<0.0020	0.0020	mg/L		04/07/25 1634	06/16/25 1919	RVV
Silver, total		<0.0050	0.0050	mg/L		04/07/25 1634	06/16/25 1919	RVV
Thallium, total		<0.0005	0.0005	mg/L		04/07/25 1634	06/16/25 1919	RVV
Vanadium, total		<0.0020	0.0020	mg/L		04/07/25 1634	06/16/25 1919	RVV
Zinc, total		<0.0050	0.0050	mg/L		04/07/25 1634	06/16/25 1919	RVV

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CERTIFICATE OF ANALYSIS

1IC1728

Client Sample ID: SRAMP #2
Sample Matrix: Aqueous
Lab Sample ID: 1IC1728-18

Collected By: JGH
Collection Date: 03/24/2025 10:59

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 8260D							
Dichlorodifluoromethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1912	CSM
Chloromethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1912	CSM
Vinyl Chloride	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1912	CSM
Bromomethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1912	CSM
Chloroethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1912	CSM
Trichlorofluoromethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1912	CSM
1,1-Dichloroethylene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1912	CSM
Acetone	<10.0	10.0	ug/L		03/27/25 0000	03/27/25 1912	CSM
Methyl Iodide	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1912	CSM
Carbon Disulfide	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1912	CSM
Methylene Chloride	<5.0	5.0	ug/L		03/27/25 0000	03/27/25 1912	CSM
Acrylonitrile	<5.0	5.0	ug/L		03/27/25 0000	03/27/25 1912	CSM
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1912	CSM
1,1-Dichloroethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1912	CSM
Vinyl Acetate	<5.0	5.0	ug/L		03/27/25 0000	03/27/25 1912	CSM
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1912	CSM
2-Butanone (MEK)	<10.0	10.0	ug/L		03/27/25 0000	03/27/25 1912	CSM
Bromochloromethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1912	CSM
Chloroform	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1912	CSM
1,1,1-Trichloroethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1912	CSM
Carbon Tetrachloride	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1912	CSM
Benzene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1912	CSM
1,2-Dichloroethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1912	CSM
Trichloroethylene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1912	CSM
1,2-Dichloropropane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1912	CSM
Dibromomethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1912	CSM
Bromodichloromethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1912	CSM
cis-1,3-Dichloropropene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1912	CSM
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L		03/27/25 0000	03/27/25 1912	CSM
Toluene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1912	CSM
trans-1,3-Dichloropropene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1912	CSM
1,1,2-Trichloroethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1912	CSM
Tetrachloroethylene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1912	CSM
2-Hexanone (MBK)	<5.0	5.0	ug/L		03/27/25 0000	03/27/25 1912	CSM
Dibromochloromethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1912	CSM
1,2-Dibromoethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1912	CSM
Chlorobenzene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1912	CSM
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1912	CSM
Ethylbenzene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1912	CSM
Xylenes, total	<2.0	2.0	ug/L		03/27/25 0000	03/27/25 1912	CSM
Styrene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1912	CSM
Bromoform	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1912	CSM

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CERTIFICATE OF ANALYSIS

11C1728

Client Sample ID: SRAMP #2
Sample Matrix: Aqueous
Lab Sample ID: 11C1728-18

Collected By: JGH
Collection Date: 03/24/2025 10:59

Determination of Volatile Organic Compounds		Result	RL	Units	Note	Prepared	Analyzed	Analyst
1,2,3-Trichloropropane		<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1912	CSM
trans-1,4-Dichloro-2-butene		<5.0	5.0	ug/L		03/27/25 0000	03/27/25 1912	CSM
1,1,2,2-Tetrachloroethane		<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1912	CSM
1,4-Dichlorobenzene		<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1912	CSM
1,2-Dichlorobenzene		<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1912	CSM
1,2-Dibromo-3-chloropropane		<5.0	5.0	ug/L		03/27/25 0000	03/27/25 1912	CSM
Surrogate: Dibromofluoromethane	95.9	Limit: 57-134	% Rec			03/27/25 0000	03/27/25 1912	CSM
Surrogate: Dibromofluoromethane	95.9	Limit: 75-136	% Rec			03/27/25 0000	03/27/25 1912	CSM
Surrogate: 1,2-Dichloroethane-d4	93.2	Limit: 61-142	% Rec			03/27/25 0000	03/27/25 1912	CSM
Surrogate: 1,2-Dichloroethane-d4	93.2	Limit: 53-140	% Rec			03/27/25 0000	03/27/25 1912	CSM
Surrogate: Toluene-d8	93.9	Limit: 86-114	% Rec			03/27/25 0000	03/27/25 1912	CSM
Surrogate: Toluene-d8	93.9	Limit: 82-121	% Rec			03/27/25 0000	03/27/25 1912	CSM
Surrogate: 4-Bromofluorobenzene	88.6	Limit: 78-121	% Rec			03/27/25 0000	03/27/25 1912	CSM
Surrogate: 4-Bromofluorobenzene	88.6	Limit: 80-116	% Rec			03/27/25 0000	03/27/25 1912	CSM

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CERTIFICATE OF ANALYSIS

1IC1728

Client Sample ID: MW98-25
Sample Matrix: Aqueous
Lab Sample ID: 1IC1728-19

Collected By: JGH
Collection Date: 03/24/2025 13:38

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 8260D							
Dichlorodifluoromethane	2.0	1.0	ug/L		03/27/25 0000	03/27/25 1934	CSM
Chloromethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1934	CSM
Vinyl Chloride	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1934	CSM
Bromomethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1934	CSM
Chloroethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1934	CSM
Trichlorofluoromethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1934	CSM
1,1-Dichloroethylene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1934	CSM
Acetone	<10.0	10.0	ug/L		03/27/25 0000	03/27/25 1934	CSM
Methyl Iodide	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1934	CSM
Carbon Disulfide	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1934	CSM
Methylene Chloride	<5.0	5.0	ug/L		03/27/25 0000	03/27/25 1934	CSM
Acrylonitrile	<5.0	5.0	ug/L		03/27/25 0000	03/27/25 1934	CSM
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1934	CSM
1,1-Dichloroethane	1.0	1.0	ug/L		03/27/25 0000	03/27/25 1934	CSM
Vinyl Acetate	<5.0	5.0	ug/L		03/27/25 0000	03/27/25 1934	CSM
cis-1,2-Dichloroethylene	1.5	1.0	ug/L		03/27/25 0000	03/27/25 1934	CSM
2-Butanone (MEK)	<10.0	10.0	ug/L		03/27/25 0000	03/27/25 1934	CSM
Bromochloromethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1934	CSM
Chloroform	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1934	CSM
1,1,1-Trichloroethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1934	CSM
Carbon Tetrachloride	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1934	CSM
Benzene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1934	CSM
1,2-Dichloroethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1934	CSM
Trichloroethylene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1934	CSM
1,2-Dichloropropane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1934	CSM
Dibromomethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1934	CSM
Bromodichloromethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1934	CSM
cis-1,3-Dichloropropene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1934	CSM
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L		03/27/25 0000	03/27/25 1934	CSM
Toluene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1934	CSM
trans-1,3-Dichloropropene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1934	CSM
1,1,2-Trichloroethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1934	CSM
Tetrachloroethylene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1934	CSM
2-Hexanone (MBK)	<5.0	5.0	ug/L		03/27/25 0000	03/27/25 1934	CSM
Dibromochloromethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1934	CSM
1,2-Dibromoethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1934	CSM
Chlorobenzene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1934	CSM
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1934	CSM
Ethylbenzene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1934	CSM
Xylenes, total	<2.0	2.0	ug/L		03/27/25 0000	03/27/25 1934	CSM
Styrene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1934	CSM
Bromoform	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1934	CSM

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CERTIFICATE OF ANALYSIS

11C1728

Client Sample ID: MW98-25
Sample Matrix: Aqueous
Lab Sample ID: 11C1728-19

Collected By: JGH
Collection Date: 03/24/2025 13:38

Determination of Volatile Organic Compounds		Result	RL	Units	Note	Prepared	Analyzed	Analyst
1,2,3-Trichloropropane		<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1934	CSM
trans-1,4-Dichloro-2-butene		<5.0	5.0	ug/L		03/27/25 0000	03/27/25 1934	CSM
1,1,2,2-Tetrachloroethane		<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1934	CSM
1,4-Dichlorobenzene	1.4		1.0	ug/L		03/27/25 0000	03/27/25 1934	CSM
1,2-Dichlorobenzene		<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1934	CSM
1,2-Dibromo-3-chloropropane		<5.0	5.0	ug/L		03/27/25 0000	03/27/25 1934	CSM
Surrogate: Dibromofluoromethane	100	Limit: 57-134	% Rec			03/27/25 0000	03/27/25 1934	CSM
Surrogate: Dibromofluoromethane	100	Limit: 75-136	% Rec			03/27/25 0000	03/27/25 1934	CSM
Surrogate: 1,2-Dichloroethane-d4	97.8	Limit: 53-140	% Rec			03/27/25 0000	03/27/25 1934	CSM
Surrogate: 1,2-Dichloroethane-d4	97.8	Limit: 61-142	% Rec			03/27/25 0000	03/27/25 1934	CSM
Surrogate: Toluene-d8	97.6	Limit: 86-114	% Rec			03/27/25 0000	03/27/25 1934	CSM
Surrogate: Toluene-d8	97.6	Limit: 82-121	% Rec			03/27/25 0000	03/27/25 1934	CSM
Surrogate: 4-Bromofluorobenzene	90.0	Limit: 78-121	% Rec			03/27/25 0000	03/27/25 1934	CSM
Surrogate: 4-Bromofluorobenzene	90.0	Limit: 80-116	% Rec			03/27/25 0000	03/27/25 1934	CSM

Determination of Total Metals		Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A								
Antimony, total		<0.0010	0.0010	mg/L		04/07/25 1634	06/16/25 1921	RVV
Arsenic, total	0.0062		0.0020	mg/L		04/07/25 1634	06/16/25 1921	RVV
Barium, total	0.0907		0.0010	mg/L		04/07/25 1634	06/16/25 1921	RVV
Beryllium, total		<0.0005	0.0005	mg/L		04/07/25 1634	06/16/25 1921	RVV
Cadmium, total		<0.0002	0.0002	mg/L		04/07/25 1634	06/16/25 1921	RVV
Chromium, total	0.0015		0.0010	mg/L		04/07/25 1634	06/16/25 1921	RVV
Cobalt, total	0.0087		0.0005	mg/L		04/07/25 1634	06/16/25 1921	RVV
Copper, total		<0.0050	0.0050	mg/L		04/07/25 1634	06/16/25 1921	RVV
Lead, total		<0.0010	0.0010	mg/L		04/07/25 1634	06/16/25 1921	RVV
Nickel, total	0.0192		0.0050	mg/L		04/07/25 1634	06/16/25 1921	RVV
Selenium, total		<0.0020	0.0020	mg/L		04/07/25 1634	06/16/25 1921	RVV
Silver, total		<0.0050	0.0050	mg/L		04/07/25 1634	06/16/25 1921	RVV
Thallium, total		<0.0005	0.0005	mg/L		04/07/25 1634	06/16/25 1921	RVV
Vanadium, total		<0.0020	0.0020	mg/L		04/07/25 1634	06/16/25 1921	RVV
Zinc, total		<0.0050	0.0050	mg/L		04/07/25 1634	06/16/25 1921	RVV

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CERTIFICATE OF ANALYSIS

1IC1728

Client Sample ID: MW06-37
Sample Matrix: Aqueous
Lab Sample ID: 1IC1728-20

Collected By: JGH
Collection Date: 03/24/2025 14:24

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 8260D							
Chloromethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1956	CSM
Vinyl Chloride	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1956	CSM
Bromomethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1956	CSM
Chloroethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1956	CSM
Trichlorofluoromethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1956	CSM
1,1-Dichloroethylene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1956	CSM
Acetone	<10.0	10.0	ug/L		03/27/25 0000	03/27/25 1956	CSM
Methyl Iodide	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1956	CSM
Carbon Disulfide	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1956	CSM
Methylene Chloride	<5.0	5.0	ug/L		03/27/25 0000	03/27/25 1956	CSM
Acrylonitrile	<5.0	5.0	ug/L		03/27/25 0000	03/27/25 1956	CSM
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1956	CSM
1,1-Dichloroethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1956	CSM
Vinyl Acetate	<5.0	5.0	ug/L		03/27/25 0000	03/27/25 1956	CSM
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1956	CSM
2-Butanone (MEK)	<10.0	10.0	ug/L		03/27/25 0000	03/27/25 1956	CSM
Bromochloromethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1956	CSM
Chloroform	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1956	CSM
1,1,1-Trichloroethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1956	CSM
Carbon Tetrachloride	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1956	CSM
Benzene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1956	CSM
1,2-Dichloroethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1956	CSM
Trichloroethylene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1956	CSM
1,2-Dichloropropane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1956	CSM
Dibromomethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1956	CSM
Bromodichloromethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1956	CSM
cis-1,3-Dichloropropene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1956	CSM
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L		03/27/25 0000	03/27/25 1956	CSM
Toluene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1956	CSM
trans-1,3-Dichloropropene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1956	CSM
1,1,2-Trichloroethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1956	CSM
Tetrachloroethylene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1956	CSM
2-Hexanone (MBK)	<5.0	5.0	ug/L		03/27/25 0000	03/27/25 1956	CSM
Dibromochloromethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1956	CSM
1,2-Dibromoethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1956	CSM
Chlorobenzene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1956	CSM
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1956	CSM
Ethylbenzene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1956	CSM
Xylenes, total	<2.0	2.0	ug/L		03/27/25 0000	03/27/25 1956	CSM
Styrene	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1956	CSM
Bromoform	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1956	CSM
1,2,3-Trichloropropane	<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1956	CSM

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CERTIFICATE OF ANALYSIS

11C1728

Client Sample ID: MW06-37
Sample Matrix: Aqueous
Lab Sample ID: 11C1728-20

Collected By: JGH
Collection Date: 03/24/2025 14:24

Determination of Volatile Organic Compounds		Result	RL	Units	Note	Prepared	Analyzed	Analyst
trans-1,4-Dichloro-2-butene		<5.0	5.0	ug/L		03/27/25 0000	03/27/25 1956	CSM
1,1,2,2-Tetrachloroethane		<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1956	CSM
1,4-Dichlorobenzene		<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1956	CSM
1,2-Dichlorobenzene		<1.0	1.0	ug/L		03/27/25 0000	03/27/25 1956	CSM
1,2-Dibromo-3-chloropropane		<5.0	5.0	ug/L		03/27/25 0000	03/27/25 1956	CSM
Surrogate: Dibromofluoromethane	98.8	Limit: 57-134	% Rec			03/27/25 0000	03/27/25 1956	CSM
Surrogate: Dibromofluoromethane	98.8	Limit: 75-136	% Rec			03/27/25 0000	03/27/25 1956	CSM
Surrogate: 1,2-Dichloroethane-d4	98.3	Limit: 61-142	% Rec			03/27/25 0000	03/27/25 1956	CSM
Surrogate: 1,2-Dichloroethane-d4	98.3	Limit: 53-140	% Rec			03/27/25 0000	03/27/25 1956	CSM
Surrogate: Toluene-d8	98.9	Limit: 82-121	% Rec			03/27/25 0000	03/27/25 1956	CSM
Surrogate: Toluene-d8	98.9	Limit: 86-114	% Rec			03/27/25 0000	03/27/25 1956	CSM
Surrogate: 4-Bromofluorobenzene	90.4	Limit: 80-116	% Rec			03/27/25 0000	03/27/25 1956	CSM
Surrogate: 4-Bromofluorobenzene	90.4	Limit: 78-121	% Rec			03/27/25 0000	03/27/25 1956	CSM

Determination of Total Metals		Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A								
Antimony, total		<0.0010	0.0010	mg/L		04/07/25 1634	06/16/25 1923	RVV
Arsenic, total		<0.0020	0.0020	mg/L		04/07/25 1634	06/16/25 1923	RVV
Barium, total	0.118		0.0010	mg/L		04/07/25 1634	06/16/25 1923	RVV
Beryllium, total		<0.0005	0.0005	mg/L		04/07/25 1634	06/16/25 1923	RVV
Cadmium, total	0.0005		0.0002	mg/L		04/07/25 1634	06/16/25 1923	RVV
Chromium, total	0.0019		0.0010	mg/L		04/07/25 1634	06/16/25 1923	RVV
Cobalt, total		<0.0005	0.0005	mg/L		04/07/25 1634	06/16/25 1923	RVV
Copper, total		<0.0050	0.0050	mg/L		04/07/25 1634	06/16/25 1923	RVV
Lead, total		<0.0010	0.0010	mg/L		04/07/25 1634	06/16/25 1923	RVV
Nickel, total		<0.0050	0.0050	mg/L		04/07/25 1634	06/16/25 1923	RVV
Selenium, total	0.0021		0.0020	mg/L		04/07/25 1634	06/16/25 1923	RVV
Silver, total		<0.0050	0.0050	mg/L		04/07/25 1634	06/16/25 1923	RVV
Thallium, total		<0.0005	0.0005	mg/L		04/07/25 1634	06/16/25 1923	RVV
Vanadium, total		<0.0020	0.0020	mg/L		04/07/25 1634	06/16/25 1923	RVV
Zinc, total		<0.0050	0.0050	mg/L		04/07/25 1634	06/16/25 1923	RVV

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CERTIFICATE OF ANALYSIS

1IC1728

Client Sample ID: MW06-38
Sample Matrix: Aqueous
Lab Sample ID: 1IC1728-21

Collected By: JGH
Collection Date: 03/24/2025 14:14

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 8260D							
Chloromethane	<1.0	1.0	ug/L		03/28/25 0000	03/28/25 1532	CSM
Vinyl Chloride	<1.0	1.0	ug/L		03/28/25 0000	03/28/25 1532	CSM
Bromomethane	<1.0	1.0	ug/L		03/28/25 0000	03/28/25 1532	CSM
Chloroethane	<1.0	1.0	ug/L		03/28/25 0000	03/28/25 1532	CSM
Trichlorofluoromethane	<1.0	1.0	ug/L		03/28/25 0000	03/28/25 1532	CSM
1,1-Dichloroethylene	<1.0	1.0	ug/L		03/28/25 0000	03/28/25 1532	CSM
Acetone	<10.0	10.0	ug/L		03/28/25 0000	03/28/25 1532	CSM
Methyl Iodide	<1.0	1.0	ug/L		03/28/25 0000	03/28/25 1532	CSM
Carbon Disulfide	<1.0	1.0	ug/L		03/28/25 0000	03/28/25 1532	CSM
Methylene Chloride	<5.0	5.0	ug/L		03/28/25 0000	03/28/25 1532	CSM
Acrylonitrile	<5.0	5.0	ug/L		03/28/25 0000	03/28/25 1532	CSM
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L		03/28/25 0000	03/28/25 1532	CSM
1,1-Dichloroethane	<1.0	1.0	ug/L		03/28/25 0000	03/28/25 1532	CSM
Vinyl Acetate	<5.0	5.0	ug/L		03/28/25 0000	03/28/25 1532	CSM
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L		03/28/25 0000	03/28/25 1532	CSM
2-Butanone (MEK)	<10.0	10.0	ug/L		03/28/25 0000	03/28/25 1532	CSM
Bromochloromethane	<1.0	1.0	ug/L		03/28/25 0000	03/28/25 1532	CSM
Chloroform	<1.0	1.0	ug/L		03/28/25 0000	03/28/25 1532	CSM
1,1,1-Trichloroethane	<1.0	1.0	ug/L		03/28/25 0000	03/28/25 1532	CSM
Carbon Tetrachloride	<1.0	1.0	ug/L		03/28/25 0000	03/28/25 1532	CSM
Benzene	<1.0	1.0	ug/L		03/28/25 0000	03/28/25 1532	CSM
1,2-Dichloroethane	<1.0	1.0	ug/L		03/28/25 0000	03/28/25 1532	CSM
Trichloroethylene	<1.0	1.0	ug/L		03/28/25 0000	03/28/25 1532	CSM
1,2-Dichloropropane	<1.0	1.0	ug/L		03/28/25 0000	03/28/25 1532	CSM
Dibromomethane	<1.0	1.0	ug/L		03/28/25 0000	03/28/25 1532	CSM
Bromodichloromethane	<1.0	1.0	ug/L		03/28/25 0000	03/28/25 1532	CSM
cis-1,3-Dichloropropene	<1.0	1.0	ug/L		03/28/25 0000	03/28/25 1532	CSM
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L		03/28/25 0000	03/28/25 1532	CSM
Toluene	<1.0	1.0	ug/L		03/28/25 0000	03/28/25 1532	CSM
trans-1,3-Dichloropropene	<1.0	1.0	ug/L		03/28/25 0000	03/28/25 1532	CSM
1,1,2-Trichloroethane	<1.0	1.0	ug/L		03/28/25 0000	03/28/25 1532	CSM
Tetrachloroethylene	<1.0	1.0	ug/L		03/28/25 0000	03/28/25 1532	CSM
2-Hexanone (MBK)	<5.0	5.0	ug/L		03/28/25 0000	03/28/25 1532	CSM
Dibromochloromethane	<1.0	1.0	ug/L		03/28/25 0000	03/28/25 1532	CSM
1,2-Dibromoethane	<1.0	1.0	ug/L		03/28/25 0000	03/28/25 1532	CSM
Chlorobenzene	<1.0	1.0	ug/L		03/28/25 0000	03/28/25 1532	CSM
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L		03/28/25 0000	03/28/25 1532	CSM
Ethylbenzene	<1.0	1.0	ug/L		03/28/25 0000	03/28/25 1532	CSM
Xylenes, total	<2.0	2.0	ug/L		03/28/25 0000	03/28/25 1532	CSM
Styrene	<1.0	1.0	ug/L		03/28/25 0000	03/28/25 1532	CSM
Bromoform	<1.0	1.0	ug/L		03/28/25 0000	03/28/25 1532	CSM
1,2,3-Trichloropropane	<1.0	1.0	ug/L		03/28/25 0000	03/28/25 1532	CSM

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CERTIFICATE OF ANALYSIS

11C1728

Client Sample ID: MW06-38
Sample Matrix: Aqueous
Lab Sample ID: 11C1728-21

Collected By: JGH
Collection Date: 03/24/2025 14:14

Determination of Volatile Organic Compounds		Result	RL	Units	Note	Prepared	Analyzed	Analyst
trans-1,4-Dichloro-2-butene		<5.0	5.0	ug/L		03/28/25 0000	03/28/25 1532	CSM
1,1,2,2-Tetrachloroethane		<1.0	1.0	ug/L		03/28/25 0000	03/28/25 1532	CSM
1,4-Dichlorobenzene		<1.0	1.0	ug/L		03/28/25 0000	03/28/25 1532	CSM
1,2-Dichlorobenzene		<1.0	1.0	ug/L		03/28/25 0000	03/28/25 1532	CSM
1,2-Dibromo-3-chloropropane		<5.0	5.0	ug/L		03/28/25 0000	03/28/25 1532	CSM
Surrogate: Dibromofluoromethane	79.7	Limit: 57-134	% Rec			03/28/25 0000	03/28/25 1532	CSM
Surrogate: Dibromofluoromethane	79.7	Limit: 75-136	% Rec			03/28/25 0000	03/28/25 1532	CSM
Surrogate: 1,2-Dichloroethane-d4	74.8	Limit: 53-140	% Rec			03/28/25 0000	03/28/25 1532	CSM
Surrogate: 1,2-Dichloroethane-d4	74.8	Limit: 61-142	% Rec			03/28/25 0000	03/28/25 1532	CSM
Surrogate: Toluene-d8	106	Limit: 86-114	% Rec			03/28/25 0000	03/28/25 1532	CSM
Surrogate: Toluene-d8	106	Limit: 82-121	% Rec			03/28/25 0000	03/28/25 1532	CSM
Surrogate: 4-Bromofluorobenzene	88.7	Limit: 78-121	% Rec			03/28/25 0000	03/28/25 1532	CSM
Surrogate: 4-Bromofluorobenzene	88.7	Limit: 80-116	% Rec			03/28/25 0000	03/28/25 1532	CSM

Determination of Total Metals		Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A								
Antimony, total		<0.0010	0.0010	mg/L		04/07/25 1634	06/16/25 1926	RVV
Arsenic, total		<0.0020	0.0020	mg/L		04/07/25 1634	06/16/25 1926	RVV
Barium, total	0.201		0.0010	mg/L		04/07/25 1634	06/16/25 1926	RVV
Beryllium, total		<0.0005	0.0005	mg/L		04/07/25 1634	06/16/25 1926	RVV
Cadmium, total	0.0004		0.0002	mg/L		04/07/25 1634	06/16/25 1926	RVV
Chromium, total	0.0019		0.0010	mg/L		04/07/25 1634	06/16/25 1926	RVV
Cobalt, total		<0.0005	0.0005	mg/L		04/07/25 1634	06/16/25 1926	RVV
Copper, total		<0.0050	0.0050	mg/L		04/07/25 1634	06/16/25 1926	RVV
Lead, total		<0.0010	0.0010	mg/L		04/07/25 1634	06/16/25 1926	RVV
Nickel, total		<0.0050	0.0050	mg/L		04/07/25 1634	06/16/25 1926	RVV
Selenium, total	0.0038		0.0020	mg/L		04/07/25 1634	06/16/25 1926	RVV
Silver, total		<0.0050	0.0050	mg/L		04/07/25 1634	06/16/25 1926	RVV
Thallium, total		<0.0005	0.0005	mg/L		04/07/25 1634	06/16/25 1926	RVV
Vanadium, total		<0.0020	0.0020	mg/L		04/07/25 1634	06/16/25 1926	RVV
Zinc, total	0.0056		0.0050	mg/L		04/07/25 1634	06/16/25 1926	RVV

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CERTIFICATE OF ANALYSIS

1IC1728

Client Sample ID: MW06-39
Sample Matrix: Aqueous
Lab Sample ID: 1IC1728-22

Collected By: JGH
Collection Date: 03/24/2025 14:04

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 8260D							
Chloromethane	<1.0	1.0	ug/L		03/28/25 0000	03/28/25 1555	CSM
Vinyl Chloride	<1.0	1.0	ug/L		03/28/25 0000	03/28/25 1555	CSM
Bromomethane	<1.0	1.0	ug/L		03/28/25 0000	03/28/25 1555	CSM
Chloroethane	<1.0	1.0	ug/L		03/28/25 0000	03/28/25 1555	CSM
Trichlorofluoromethane	<1.0	1.0	ug/L		03/28/25 0000	03/28/25 1555	CSM
1,1-Dichloroethylene	<1.0	1.0	ug/L		03/28/25 0000	03/28/25 1555	CSM
Acetone	<10.0	10.0	ug/L		03/28/25 0000	03/28/25 1555	CSM
Methyl Iodide	<1.0	1.0	ug/L		03/28/25 0000	03/28/25 1555	CSM
Carbon Disulfide	<1.0	1.0	ug/L		03/28/25 0000	03/28/25 1555	CSM
Methylene Chloride	<5.0	5.0	ug/L		03/28/25 0000	03/28/25 1555	CSM
Acrylonitrile	<5.0	5.0	ug/L		03/28/25 0000	03/28/25 1555	CSM
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L		03/28/25 0000	03/28/25 1555	CSM
1,1-Dichloroethane	<1.0	1.0	ug/L		03/28/25 0000	03/28/25 1555	CSM
Vinyl Acetate	<5.0	5.0	ug/L		03/28/25 0000	03/28/25 1555	CSM
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L		03/28/25 0000	03/28/25 1555	CSM
2-Butanone (MEK)	<10.0	10.0	ug/L		03/28/25 0000	03/28/25 1555	CSM
Bromochloromethane	<1.0	1.0	ug/L		03/28/25 0000	03/28/25 1555	CSM
Chloroform	<1.0	1.0	ug/L		03/28/25 0000	03/28/25 1555	CSM
1,1,1-Trichloroethane	<1.0	1.0	ug/L		03/28/25 0000	03/28/25 1555	CSM
Carbon Tetrachloride	<1.0	1.0	ug/L		03/28/25 0000	03/28/25 1555	CSM
Benzene	<1.0	1.0	ug/L		03/28/25 0000	03/28/25 1555	CSM
1,2-Dichloroethane	<1.0	1.0	ug/L		03/28/25 0000	03/28/25 1555	CSM
Trichloroethylene	<1.0	1.0	ug/L		03/28/25 0000	03/28/25 1555	CSM
1,2-Dichloropropane	<1.0	1.0	ug/L		03/28/25 0000	03/28/25 1555	CSM
Dibromomethane	<1.0	1.0	ug/L		03/28/25 0000	03/28/25 1555	CSM
Bromodichloromethane	<1.0	1.0	ug/L		03/28/25 0000	03/28/25 1555	CSM
cis-1,3-Dichloropropene	<1.0	1.0	ug/L		03/28/25 0000	03/28/25 1555	CSM
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L		03/28/25 0000	03/28/25 1555	CSM
Toluene	<1.0	1.0	ug/L		03/28/25 0000	03/28/25 1555	CSM
trans-1,3-Dichloropropene	<1.0	1.0	ug/L		03/28/25 0000	03/28/25 1555	CSM
1,1,2-Trichloroethane	<1.0	1.0	ug/L		03/28/25 0000	03/28/25 1555	CSM
Tetrachloroethylene	<1.0	1.0	ug/L		03/28/25 0000	03/28/25 1555	CSM
2-Hexanone (MBK)	<5.0	5.0	ug/L		03/28/25 0000	03/28/25 1555	CSM
Dibromochloromethane	<1.0	1.0	ug/L		03/28/25 0000	03/28/25 1555	CSM
1,2-Dibromoethane	<1.0	1.0	ug/L		03/28/25 0000	03/28/25 1555	CSM
Chlorobenzene	<1.0	1.0	ug/L		03/28/25 0000	03/28/25 1555	CSM
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L		03/28/25 0000	03/28/25 1555	CSM
Ethylbenzene	<1.0	1.0	ug/L		03/28/25 0000	03/28/25 1555	CSM
Xylenes, total	<2.0	2.0	ug/L		03/28/25 0000	03/28/25 1555	CSM
Styrene	<1.0	1.0	ug/L		03/28/25 0000	03/28/25 1555	CSM
Bromoform	<1.0	1.0	ug/L		03/28/25 0000	03/28/25 1555	CSM
1,2,3-Trichloropropane	<1.0	1.0	ug/L		03/28/25 0000	03/28/25 1555	CSM

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CERTIFICATE OF ANALYSIS

11C1728

Client Sample ID: MW06-39
Sample Matrix: Aqueous
Lab Sample ID: 11C1728-22

Collected By: JGH
Collection Date: 03/24/2025 14:04

Determination of Volatile Organic Compounds		Result	RL	Units	Note	Prepared	Analyzed	Analyst
trans-1,4-Dichloro-2-butene		<5.0	5.0	ug/L		03/28/25 0000	03/28/25 1555	CSM
1,1,2,2-Tetrachloroethane		<1.0	1.0	ug/L		03/28/25 0000	03/28/25 1555	CSM
1,4-Dichlorobenzene		<1.0	1.0	ug/L		03/28/25 0000	03/28/25 1555	CSM
1,2-Dichlorobenzene		<1.0	1.0	ug/L		03/28/25 0000	03/28/25 1555	CSM
1,2-Dibromo-3-chloropropane		<5.0	5.0	ug/L		03/28/25 0000	03/28/25 1555	CSM
Surrogate: Dibromofluoromethane	82.2	Limit: 57-134	% Rec			03/28/25 0000	03/28/25 1555	CSM
Surrogate: Dibromofluoromethane	82.2	Limit: 75-136	% Rec			03/28/25 0000	03/28/25 1555	CSM
Surrogate: 1,2-Dichloroethane-d4	77.6	Limit: 53-140	% Rec			03/28/25 0000	03/28/25 1555	CSM
Surrogate: 1,2-Dichloroethane-d4	77.6	Limit: 61-142	% Rec			03/28/25 0000	03/28/25 1555	CSM
Surrogate: Toluene-d8	107	Limit: 86-114	% Rec			03/28/25 0000	03/28/25 1555	CSM
Surrogate: Toluene-d8	107	Limit: 82-121	% Rec			03/28/25 0000	03/28/25 1555	CSM
Surrogate: 4-Bromofluorobenzene	93.1	Limit: 78-121	% Rec			03/28/25 0000	03/28/25 1555	CSM
Surrogate: 4-Bromofluorobenzene	93.1	Limit: 80-116	% Rec			03/28/25 0000	03/28/25 1555	CSM

Determination of Total Metals		Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A								
Antimony, total		<0.0010	0.0010	mg/L		04/07/25 1634	06/16/25 1928	RVV
Arsenic, total		<0.0020	0.0020	mg/L		04/07/25 1634	06/16/25 1928	RVV
Barium, total	0.182		0.0010	mg/L		04/07/25 1634	06/16/25 1928	RVV
Beryllium, total		<0.0005	0.0005	mg/L		04/07/25 1634	06/16/25 1928	RVV
Cadmium, total		<0.0002	0.0002	mg/L		04/07/25 1634	06/16/25 1928	RVV
Chromium, total	0.0018		0.0010	mg/L		04/07/25 1634	06/16/25 1928	RVV
Cobalt, total		<0.0005	0.0005	mg/L		04/07/25 1634	06/16/25 1928	RVV
Copper, total		<0.0050	0.0050	mg/L		04/07/25 1634	06/16/25 1928	RVV
Lead, total		<0.0010	0.0010	mg/L		04/07/25 1634	06/16/25 1928	RVV
Nickel, total		<0.0050	0.0050	mg/L		04/07/25 1634	06/16/25 1928	RVV
Selenium, total		<0.0020	0.0020	mg/L		04/07/25 1634	06/16/25 1928	RVV
Silver, total		<0.0050	0.0050	mg/L		04/07/25 1634	06/16/25 1928	RVV
Thallium, total		<0.0005	0.0005	mg/L		04/07/25 1634	06/16/25 1928	RVV
Vanadium, total		<0.0020	0.0020	mg/L		04/07/25 1634	06/16/25 1928	RVV
Zinc, total		<0.0050	0.0050	mg/L		04/07/25 1634	06/16/25 1928	RVV

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CERTIFICATE OF ANALYSIS

11C1728

Client Sample ID: Field Duplicate
Sample Matrix: Aqueous
Lab Sample ID: 11C1728-23

Collected By: JGH
Collection Date: 03/24/2025 9:40

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 8260D							
Chloromethane	<1.0	1.0	ug/L		03/28/25 0000	03/28/25 1617	CSM
Vinyl Chloride	<1.0	1.0	ug/L		03/28/25 0000	03/28/25 1617	CSM
Bromomethane	<1.0	1.0	ug/L		03/28/25 0000	03/28/25 1617	CSM
Chloroethane	<1.0	1.0	ug/L		03/28/25 0000	03/28/25 1617	CSM
Trichlorofluoromethane	<1.0	1.0	ug/L		03/28/25 0000	03/28/25 1617	CSM
1,1-Dichloroethylene	<1.0	1.0	ug/L		03/28/25 0000	03/28/25 1617	CSM
Acetone	<10.0	10.0	ug/L		03/28/25 0000	03/28/25 1617	CSM
Methyl Iodide	<1.0	1.0	ug/L		03/28/25 0000	03/28/25 1617	CSM
Carbon Disulfide	<1.0	1.0	ug/L		03/28/25 0000	03/28/25 1617	CSM
Methylene Chloride	<5.0	5.0	ug/L		03/28/25 0000	03/28/25 1617	CSM
Acrylonitrile	<5.0	5.0	ug/L		03/28/25 0000	03/28/25 1617	CSM
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L		03/28/25 0000	03/28/25 1617	CSM
1,1-Dichloroethane	<1.0	1.0	ug/L		03/28/25 0000	03/28/25 1617	CSM
Vinyl Acetate	<5.0	5.0	ug/L		03/28/25 0000	03/28/25 1617	CSM
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L		03/28/25 0000	03/28/25 1617	CSM
2-Butanone (MEK)	<10.0	10.0	ug/L		03/28/25 0000	03/28/25 1617	CSM
Bromochloromethane	<1.0	1.0	ug/L		03/28/25 0000	03/28/25 1617	CSM
Chloroform	<1.0	1.0	ug/L		03/28/25 0000	03/28/25 1617	CSM
1,1,1-Trichloroethane	<1.0	1.0	ug/L		03/28/25 0000	03/28/25 1617	CSM
Carbon Tetrachloride	<1.0	1.0	ug/L		03/28/25 0000	03/28/25 1617	CSM
Benzene	<1.0	1.0	ug/L		03/28/25 0000	03/28/25 1617	CSM
1,2-Dichloroethane	<1.0	1.0	ug/L		03/28/25 0000	03/28/25 1617	CSM
Trichloroethylene	<1.0	1.0	ug/L		03/28/25 0000	03/28/25 1617	CSM
1,2-Dichloropropane	<1.0	1.0	ug/L		03/28/25 0000	03/28/25 1617	CSM
Dibromomethane	<1.0	1.0	ug/L		03/28/25 0000	03/28/25 1617	CSM
Bromodichloromethane	<1.0	1.0	ug/L		03/28/25 0000	03/28/25 1617	CSM
cis-1,3-Dichloropropene	<1.0	1.0	ug/L		03/28/25 0000	03/28/25 1617	CSM
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L		03/28/25 0000	03/28/25 1617	CSM
Toluene	<1.0	1.0	ug/L		03/28/25 0000	03/28/25 1617	CSM
trans-1,3-Dichloropropene	<1.0	1.0	ug/L		03/28/25 0000	03/28/25 1617	CSM
1,1,2-Trichloroethane	<1.0	1.0	ug/L		03/28/25 0000	03/28/25 1617	CSM
Tetrachloroethylene	<1.0	1.0	ug/L		03/28/25 0000	03/28/25 1617	CSM
2-Hexanone (MBK)	<5.0	5.0	ug/L		03/28/25 0000	03/28/25 1617	CSM
Dibromochloromethane	<1.0	1.0	ug/L		03/28/25 0000	03/28/25 1617	CSM
1,2-Dibromoethane	<1.0	1.0	ug/L		03/28/25 0000	03/28/25 1617	CSM
Chlorobenzene	<1.0	1.0	ug/L		03/28/25 0000	03/28/25 1617	CSM
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L		03/28/25 0000	03/28/25 1617	CSM
Ethylbenzene	<1.0	1.0	ug/L		03/28/25 0000	03/28/25 1617	CSM
Xylenes, total	<2.0	2.0	ug/L		03/28/25 0000	03/28/25 1617	CSM
Styrene	<1.0	1.0	ug/L		03/28/25 0000	03/28/25 1617	CSM
Bromoform	<1.0	1.0	ug/L		03/28/25 0000	03/28/25 1617	CSM
1,2,3-Trichloropropane	<1.0	1.0	ug/L		03/28/25 0000	03/28/25 1617	CSM

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CERTIFICATE OF ANALYSIS

11C1728

Client Sample ID: Field Duplicate
Sample Matrix: Aqueous
Lab Sample ID: 11C1728-23

Collected By: JGH
Collection Date: 03/24/2025 9:40

Determination of Volatile Organic Compounds		Result	RL	Units	Note	Prepared	Analyzed	Analyst
trans-1,4-Dichloro-2-butene		<5.0	5.0	ug/L		03/28/25 0000	03/28/25 1617	CSM
1,1,2,2-Tetrachloroethane		<1.0	1.0	ug/L		03/28/25 0000	03/28/25 1617	CSM
1,4-Dichlorobenzene		<1.0	1.0	ug/L		03/28/25 0000	03/28/25 1617	CSM
1,2-Dichlorobenzene		<1.0	1.0	ug/L		03/28/25 0000	03/28/25 1617	CSM
1,2-Dibromo-3-chloropropane		<5.0	5.0	ug/L		03/28/25 0000	03/28/25 1617	CSM
Surrogate: Dibromofluoromethane	81.2	Limit: 57-134	% Rec			03/28/25 0000	03/28/25 1617	CSM
Surrogate: Dibromofluoromethane	81.2	Limit: 75-136	% Rec			03/28/25 0000	03/28/25 1617	CSM
Surrogate: 1,2-Dichloroethane-d4	76.2	Limit: 61-142	% Rec			03/28/25 0000	03/28/25 1617	CSM
Surrogate: 1,2-Dichloroethane-d4	76.2	Limit: 53-140	% Rec			03/28/25 0000	03/28/25 1617	CSM
Surrogate: Toluene-d8	108	Limit: 86-114	% Rec			03/28/25 0000	03/28/25 1617	CSM
Surrogate: Toluene-d8	108	Limit: 82-121	% Rec			03/28/25 0000	03/28/25 1617	CSM
Surrogate: 4-Bromofluorobenzene	95.0	Limit: 80-116	% Rec			03/28/25 0000	03/28/25 1617	CSM
Surrogate: 4-Bromofluorobenzene	95.0	Limit: 78-121	% Rec			03/28/25 0000	03/28/25 1617	CSM

Determination of Total Metals		Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A								
Antimony, total		<0.0010	0.0010	mg/L		04/17/25 1555	06/16/25 1940	RVV
Arsenic, total		<0.0020	0.0020	mg/L		04/17/25 1555	06/16/25 1940	RVV
Barium, total	0.0414	0.0010	mg/L			04/17/25 1555	06/16/25 1940	RVV
Beryllium, total		<0.0005	0.0005	mg/L		04/17/25 1555	06/16/25 1940	RVV
Cadmium, total	0.0014	0.0002	mg/L			04/17/25 1555	06/16/25 1940	RVV
Chromium, total	0.0015	0.0010	mg/L			04/17/25 1555	06/16/25 1940	RVV
Cobalt, total		<0.0005	0.0005	mg/L		04/17/25 1555	06/16/25 1940	RVV
Copper, total	0.0059	0.0050	mg/L			04/17/25 1555	06/16/25 1940	RVV
Lead, total		<0.0010	0.0010	mg/L		04/17/25 1555	06/16/25 1940	RVV
Nickel, total		<0.0050	0.0050	mg/L		04/17/25 1555	06/16/25 1940	RVV
Selenium, total	0.0086	0.0020	mg/L			04/17/25 1555	06/16/25 1940	RVV
Silver, total		<0.0050	0.0050	mg/L		04/17/25 1555	06/16/25 1940	RVV
Thallium, total		<0.0005	0.0005	mg/L		04/17/25 1555	06/16/25 1940	RVV
Vanadium, total		<0.0020	0.0020	mg/L		04/17/25 1555	06/16/25 1940	RVV
Zinc, total	0.0099	0.0050	mg/L			04/17/25 1555	06/16/25 1940	RVV

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CERTIFICATE OF ANALYSIS

1IC1728

Batch Log Summary

Method	Batch	Laboratory ID	Client / Source ID
EPA 8260D	1IC1443	1IC1443-BS1	
		1IC1443-BSD1	
		1IC1443-BLK1	
		1IC1728-01	MW91-8
		1IC1728-02	MW02-15A
		1IC1728-03	MW98-28
		1IC1728-04	MW02-30A
		1IC1728-05	MW88-2
		1IC1728-06	MW94-18
		1IC1728-07	MW09-40
		1IC1728-08	MW91-10
		1IC1728-09	MW96-21
		1IC1728-10	MW96-24
		1IC1728-11	MW88-3
		1IC1728-12	MW96-23
		1IC1728-13	MW21-43
		1IC1728-14	GU-3
		1IC1728-15	PEC-3
		1IC1728-16	GU-4
		1IC1728-17	SRAMP #1
		1IC1728-18	SRAMP #2
		1IC1728-19	MW98-25
		1IC1728-20	MW06-37
		1IC1443-MS1	1IC1728-01
		1IC1443-MSD1	1IC1728-01
Method	Batch	Laboratory ID	Client / Source ID
EPA 8260D	1IC1489	1IC1489-BS1	
		1IC1489-BSD1	
		1IC1489-BLK1	
		1IC1728-21	MW06-38
		1IC1728-22	MW06-39
		1IC1728-23	Field Duplicate
		1IC1489-MS1	1IC1753-01
		1IC1489-MSD1	1IC1753-01
Method	Batch	Laboratory ID	Client / Source ID
EPA 6020A	1ID0321	1ID0321-BLK1	
		1ID0321-BS1	
		1IC1728-01	MW91-8

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CERTIFICATE OF ANALYSIS

1IC1728

EPA 6020A	1ID0321	1ID0321-MS1	1IC1728-01
		1ID0321-MSD1	1IC1728-01
		1ID0321-PS1	1IC1728-01
		1IC1728-02	MW02-15A
		1IC1728-03	MW98-28
		1IC1728-04	MW02-30A
		1IC1728-05	MW88-2
		1IC1728-06	MW94-18
		1IC1728-07	MW09-40
		1IC1728-08	MW91-10
		1IC1728-09	MW96-21
		1IC1728-10	MW96-24
		1IC1728-11	MW88-3
		1IC1728-12	MW96-23
		1IC1728-13	MW21-43
		1IC1728-14	GU-3
		1ID0321-BLK2	
		1ID0321-BS2	
		1IC1728-01RE1	MW91-8
		1ID0321-MS2	1IC1728-01RE1
		1ID0321-MSD2	1IC1728-01RE1
		1ID0321-PS2	1IC1728-01RE1
		1IC1728-07RE1	MW09-40
		1IC1728-08RE1	MW91-10
		1IC1728-16	GU-4
		1IC1728-17	SRAMP #1
		1IC1728-19	MW98-25
		1IC1728-20	MW06-37
		1IC1728-21	MW06-38
		1IC1728-22	MW06-39
		1IC1728-16RE1	GU-4

Method	Batch	Laboratory ID	Client / Source ID
EPA 6020A	1ID0403	1ID0403-BLK1	
		1ID0403-BS1	
		1IC1728-23	Field Duplicate
		1ID0403-MS1	1IC1753-01
		1ID0403-MSD1	1IC1753-01
		1ID0403-PS1	1IC1753-01

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



Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

1IC1728

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1IC1443 - EPA 5030B - EPA 8260D										
Blank (1IC1443-BLK1)				Prepared: 03/27/25 00:00 Analyzed: 03/27/25 12:31						
Dichlorodifluoromethane	<1.0	1.0	ug/L							
Chloromethane	<1.0	1.0	ug/L							
Vinyl Chloride	<1.0	1.0	ug/L							
Bromomethane	<1.0	1.0	ug/L							
Chloroethane	<1.0	1.0	ug/L							
Trichlorofluoromethane	<1.0	1.0	ug/L							
1,1-Dichloroethylene	<1.0	1.0	ug/L							
Acetone	<10.0	10.0	ug/L							
Methyl Iodide	<1.0	1.0	ug/L							
Carbon Disulfide	<1.0	1.0	ug/L							
Methylene Chloride	<5.0	5.0	ug/L							
Acrylonitrile	<5.0	5.0	ug/L							
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L							
1,1-Dichloroethane	<1.0	1.0	ug/L							
Vinyl Acetate	<5.0	5.0	ug/L							
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L							
2-Butanone (MEK)	<10.0	10.0	ug/L							
Bromochloromethane	<1.0	1.0	ug/L							
Chloroform	<1.0	1.0	ug/L							
1,1,1-Trichloroethane	<1.0	1.0	ug/L							
Carbon Tetrachloride	<1.0	1.0	ug/L							
Benzene	<1.0	1.0	ug/L							
1,2-Dichloroethane	<1.0	1.0	ug/L							
Trichloroethylene	<1.0	1.0	ug/L							
1,2-Dichloropropane	<1.0	1.0	ug/L							
Dibromomethane	<1.0	1.0	ug/L							
Bromodichloromethane	<1.0	1.0	ug/L							
cis-1,3-Dichloropropene	<1.0	1.0	ug/L							
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L							
Toluene	<1.0	1.0	ug/L							
trans-1,3-Dichloropropene	<1.0	1.0	ug/L							
1,1,2-Trichloroethane	<1.0	1.0	ug/L							
Tetrachloroethylene	<1.0	1.0	ug/L							
2-Hexanone (MBK)	<5.0	5.0	ug/L							
Dibromochloromethane	<1.0	1.0	ug/L							
1,2-Dibromoethane	<1.0	1.0	ug/L							
Chlorobenzene	<1.0	1.0	ug/L							
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L							
Ethylbenzene	<1.0	1.0	ug/L							
Xylenes, total	<2.0	2.0	ug/L							
Styrene	<1.0	1.0	ug/L							
Bromoform	<1.0	1.0	ug/L							
1,2,3-Trichloropropane	<1.0	1.0	ug/L							

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CERTIFICATE OF ANALYSIS

1IC1728

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1IC1443 - EPA 5030B - EPA 8260D										
Blank (1IC1443-BLK1)										
Prepared: 03/27/25 00:00 Analyzed: 03/27/25 12:31										
trans-1,4-Dichloro-2-butene	<5.0	5.0	ug/L							
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L							
1,4-Dichlorobenzene	<1.0	1.0	ug/L							
1,2-Dichlorobenzene	<1.0	1.0	ug/L							
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L							
Surrogate: Dibromofluoromethane	45.8		ug/L	50.2		91.3	75-136			
Surrogate: Dibromofluoromethane	45.8		ug/L	50.2		91.3	57-134			
Surrogate: 1,2-Dichloroethane-d4	43.4		ug/L	50.1		86.6	53-140			
Surrogate: 1,2-Dichloroethane-d4	43.4		ug/L	50.1		86.6	61-142			
Surrogate: Toluene-d8	46.9		ug/L	50.4		93.0	86-114			
Surrogate: Toluene-d8	46.9		ug/L	50.4		93.0	82-121			
Surrogate: 4-Bromofluorobenzene	47.5		ug/L	50.1		94.7	80-116			
Surrogate: 4-Bromofluorobenzene	47.5		ug/L	50.1		94.7	78-121			
LCS (1IC1443-BS1)										
Prepared: 03/27/25 00:00 Analyzed: 03/27/25 11:25										
Dichlorodifluoromethane	29.94	1.0	ug/L	30.3		98.9	49-138			
Chloromethane	29.74	1.0	ug/L	30.3		98.1	63-155			
Vinyl Chloride	30.59	1.0	ug/L	30.2		101	70-154			
Bromomethane	28.31	1.0	ug/L	30.1		94.0	52-176			
Chloroethane	30.12	1.0	ug/L	30.3		99.3	72-148			
Trichlorofluoromethane	32.44	1.0	ug/L	30.3		107	70-152			
1,1-Dichloroethylene	52.30	1.0	ug/L	50.1		104	70-148			
Acetone	82.80	10.0	ug/L	100		82.8	43-172			
Methyl Iodide	114.7	1.0	ug/L	100		115	69-170			
Carbon Disulfide	103.1	1.0	ug/L	100		103	72-162			
Methylene Chloride	47.56	5.0	ug/L	50.1		94.9	68-142			
Acrylonitrile	41.97	5.0	ug/L	50.2		83.6	56-135			
trans-1,2-Dichloroethylene	53.48	1.0	ug/L	50.1		107	66-148			
1,1-Dichloroethane	51.64	1.0	ug/L	50.1		103	66-143			
Vinyl Acetate	143.9	5.0	ug/L	140		103	43-153			
cis-1,2-Dichloroethylene	51.79	1.0	ug/L	50.4		103	71-149			
2-Butanone (MEK)	77.05	10.0	ug/L	100		77.0	52-159			
Bromochloromethane	47.01	1.0	ug/L	50.4		93.3	69-143			
Chloroform	48.58	1.0	ug/L	50.1		97.0	69-144			
1,1,1-Trichloroethane	55.65	1.0	ug/L	50.1		111	62-129			
Carbon Tetrachloride	55.42	1.0	ug/L	50.1		111	63-141			
Benzene	53.08	1.0	ug/L	50.4		105	71-134			
1,2-Dichloroethane	50.40	1.0	ug/L	50.1		101	72-132			
Trichloroethylene	55.79	1.0	ug/L	50.1		111	71-135			
1,2-Dichloropropane	51.20	1.0	ug/L	50.1		102	69-136			
Dibromomethane	44.10	1.0	ug/L	50.4		87.6	73-147			
Bromodichloromethane	52.86	1.0	ug/L	50.1		106	68-129			
cis-1,3-Dichloropropene	44.40	1.0	ug/L	50.1		88.6	65-134			
4-Methyl-2-pentanone (MIBK)	73.60	5.0	ug/L	100		73.6	58-147			

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CERTIFICATE OF ANALYSIS

1IC1728

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1IC1443 - EPA 5030B - EPA 8260D										
LCS (1IC1443-BS1)										
Prepared: 03/27/25 00:00 Analyzed: 03/27/25 11:25										
Toluene	53.97	1.0	ug/L	50.5		107	72-133			
trans-1,3-Dichloropropene	42.42	1.0	ug/L	50.1		84.7	67-130			
1,1,2-Trichloroethane	45.36	1.0	ug/L	50.1		90.6	69-135			
Tetrachloroethylene	56.43	1.0	ug/L	50.1		113	69-130			
2-Hexanone (MBK)	72.52	5.0	ug/L	100		72.5	55-144			
Dibromochloromethane	50.02	1.0	ug/L	50.1		99.9	73-127			
1,2-Dibromoethane	44.80	1.0	ug/L	50.2		89.2	67-132			
Chlorobenzene	53.10	1.0	ug/L	50.1		106	72-123			
1,1,1,2-Tetrachloroethane	52.56	1.0	ug/L	50.3		104	73-127			
Ethylbenzene	57.18	1.0	ug/L	50.2		114	71-127			
Xylenes, total	177.5	2.0	ug/L	151		117	74-127			
Styrene	51.02	1.0	ug/L	50.4		101	66-126			
Bromoform	48.07	1.0	ug/L	50.1		95.9	68-130			
1,2,3-Trichloropropane	45.55	1.0	ug/L	50.3		90.5	63-136			
trans-1,4-Dichloro-2-butene	80.79	5.0	ug/L	100		80.8	54-134			
1,1,2,2-Tetrachloroethane	42.41	1.0	ug/L	50.1		84.6	61-131			
1,4-Dichlorobenzene	50.21	1.0	ug/L	50.1		100	70-129			
1,2-Dichlorobenzene	52.45	1.0	ug/L	50.1		105	69-126			
1,2-Dibromo-3-chloropropane	35.04	5.0	ug/L	50.1		69.9	50-143			
Surrogate: Dibromofluoromethane	48.9		ug/L	50.2		97.4	57-134			
Surrogate: Dibromofluoromethane	48.9		ug/L	50.2		97.4	75-136			
Surrogate: 1,2-Dichloroethane-d4	45.5		ug/L	50.1		90.9	53-140			
Surrogate: 1,2-Dichloroethane-d4	45.5		ug/L	50.1		90.9	61-142			
Surrogate: Toluene-d8	50.6		ug/L	50.4		100	86-114			
Surrogate: Toluene-d8	50.6		ug/L	50.4		100	82-121			
Surrogate: 4-Bromofluorobenzene	50.6		ug/L	50.1		101	78-121			
Surrogate: 4-Bromofluorobenzene	50.6		ug/L	50.1		101	80-116			
LCS Dup (1IC1443-BSD1)										
Prepared: 03/27/25 00:00 Analyzed: 03/27/25 11:47										
Dichlorodifluoromethane	26.04	1.0	ug/L	30.3		86.0	49-138	13.9	22	
Chloromethane	25.98	1.0	ug/L	30.3		85.7	63-155	13.5	24	
Vinyl Chloride	26.89	1.0	ug/L	30.2		88.9	70-154	12.9	25	
Bromomethane	24.77	1.0	ug/L	30.1		82.2	52-176	13.3	27	
Chloroethane	26.47	1.0	ug/L	30.3		87.3	72-148	12.9	25	
Trichlorofluoromethane	27.97	1.0	ug/L	30.3		92.3	70-152	14.8	26	
1,1-Dichloroethylene	46.11	1.0	ug/L	50.1		92.0	70-148	12.6	24	
Acetone	95.38	10.0	ug/L	100		95.4	43-172	14.1	30	
Methyl Iodide	104.2	1.0	ug/L	100		104	69-170	9.57	30	
Carbon Disulfide	89.98	1.0	ug/L	100		90.0	72-162	13.6	24	
Methylene Chloride	45.23	5.0	ug/L	50.1		90.3	68-142	5.02	21	
Acrylonitrile	45.82	5.0	ug/L	50.2		91.3	56-135	8.77	16	
trans-1,2-Dichloroethylene	48.25	1.0	ug/L	50.1		96.3	66-148	10.3	27	
1,1-Dichloroethane	48.12	1.0	ug/L	50.1		96.0	66-143	7.06	24	
Vinyl Acetate	159.9	5.0	ug/L	140		114	43-153	10.5	30	

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CERTIFICATE OF ANALYSIS

1IC1728

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1IC1443 - EPA 5030B - EPA 8260D										
LCS Dup (1IC1443-BSD1)										
Prepared: 03/27/25 00:00 Analyzed: 03/27/25 11:47										
cis-1,2-Dichloroethylene	47.22	1.0	ug/L	50.4		93.8	71-149	9.23	26	
2-Butanone (MEK)	91.05	10.0	ug/L	100		91.0	52-159	16.7	27	
Bromochloromethane	47.26	1.0	ug/L	50.4		93.8	69-143	0.530	23	
Chloroform	45.97	1.0	ug/L	50.1		91.8	69-144	5.52	23	
1,1,1-Trichloroethane	49.63	1.0	ug/L	50.1		99.0	62-129	11.4	24	
Carbon Tetrachloride	49.62	1.0	ug/L	50.1		99.1	63-141	11.0	25	
Benzene	50.23	1.0	ug/L	50.4		99.6	71-134	5.52	24	
1,2-Dichloroethane	52.33	1.0	ug/L	50.1		104	72-132	3.76	24	
Trichloroethylene	51.65	1.0	ug/L	50.1		103	71-135	7.71	24	
1,2-Dichloropropane	51.83	1.0	ug/L	50.1		103	69-136	1.22	24	
Dibromomethane	47.52	1.0	ug/L	50.4		94.3	73-147	7.47	25	
Bromodichloromethane	54.08	1.0	ug/L	50.1		108	68-129	2.28	22	
cis-1,3-Dichloropropene	45.12	1.0	ug/L	50.1		90.1	65-134	1.61	23	
4-Methyl-2-pentanone (MIBK)	91.57	5.0	ug/L	100		91.6	58-147	21.8	27	
Toluene	50.97	1.0	ug/L	50.5		101	72-133	5.72	24	
trans-1,3-Dichloropropene	45.49	1.0	ug/L	50.1		90.8	67-130	6.98	24	
1,1,2-Trichloroethane	49.33	1.0	ug/L	50.1		98.5	69-135	8.39	23	
Tetrachloroethylene	51.11	1.0	ug/L	50.1		102	69-130	9.89	25	
2-Hexanone (MBK)	83.37	5.0	ug/L	100		83.4	55-144	13.9	25	
Dibromochloromethane	52.56	1.0	ug/L	50.1		105	73-127	4.95	22	
1,2-Dibromoethane	47.47	1.0	ug/L	50.2		94.5	67-132	5.79	24	
Chlorobenzene	48.67	1.0	ug/L	50.1		97.2	72-123	8.71	23	
1,1,1,2-Tetrachloroethane	49.84	1.0	ug/L	50.3		99.0	73-127	5.31	24	
Ethylbenzene	51.93	1.0	ug/L	50.2		104	71-127	9.62	26	
Xylenes, total	160.3	2.0	ug/L	151		106	74-127	10.2	25	
Styrene	48.73	1.0	ug/L	50.4		96.7	66-126	4.59	23	
Bromoform	51.96	1.0	ug/L	50.1		104	68-130	7.78	23	
1,2,3-Trichloropropane	51.70	1.0	ug/L	50.3		103	63-136	12.6	24	
trans-1,4-Dichloro-2-butene	93.25	5.0	ug/L	100		93.2	54-134	14.3	27	
1,1,2,2-Tetrachloroethane	45.55	1.0	ug/L	50.1		90.9	61-131	7.14	29	
1,4-Dichlorobenzene	47.32	1.0	ug/L	50.1		94.4	70-129	5.93	24	
1,2-Dichlorobenzene	50.67	1.0	ug/L	50.1		101	69-126	3.45	26	
1,2-Dibromo-3-chloropropane	43.16	5.0	ug/L	50.1		86.1	50-143	20.8	30	
Surrogate: Dibromofluoromethane	49.4		ug/L	50.2		98.5	57-134			
Surrogate: Dibromofluoromethane	49.4		ug/L	50.2		98.5	75-136			
Surrogate: 1,2-Dichloroethane-d4	49.4		ug/L	50.1		98.7	53-140			
Surrogate: 1,2-Dichloroethane-d4	49.4		ug/L	50.1		98.7	61-142			
Surrogate: Toluene-d8	51.0		ug/L	50.4		101	86-114			
Surrogate: Toluene-d8	51.0		ug/L	50.4		101	82-121			
Surrogate: 4-Bromofluorobenzene	52.1		ug/L	50.1		104	78-121			
Surrogate: 4-Bromofluorobenzene	52.1		ug/L	50.1		104	80-116			
Matrix Spike (1IC1443-MS1)										
Source: 1IC1728-01 Prepared: 03/27/25 00:00 Analyzed: 03/27/25 20:19										
Dichlorodifluoromethane	274.6	10.0	ug/L	303	ND	90.7	37-140			

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CERTIFICATE OF ANALYSIS

1IC1728

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1IC1443 - EPA 5030B - EPA 8260D										
Matrix Spike (1IC1443-MS1)	Source: 1IC1728-01			Prepared: 03/27/25 00:00 Analyzed: 03/27/25 20:19						
Chloromethane	262.1	10.0	ug/L	303	ND	86.4	61-152			
Vinyl Chloride	274.7	10.0	ug/L	302	ND	90.8	66-149			
Bromomethane	245.1	10.0	ug/L	301	ND	81.4	43-171			
Chloroethane	271.0	10.0	ug/L	303	ND	89.4	69-148			
Trichlorofluoromethane	310.3	10.0	ug/L	303	ND	102	62-163			
1,1-Dichloroethylene	482.5	10.0	ug/L	501	ND	96.3	70-148			
Acetone	1002	100	ug/L	1000	ND	100	45-173			
Methyl Iodide	1063	10.0	ug/L	1000	ND	106	62-167			
Carbon Disulfide	924.7	10.0	ug/L	1000	ND	92.5	71-163			
Methylene Chloride	469.0	50.0	ug/L	501	ND	93.6	69-140			
Acrylonitrile	456.1	50.0	ug/L	502	ND	90.9	38-147			
trans-1,2-Dichloroethylene	512.0	10.0	ug/L	501	ND	102	69-144			
1,1-Dichloroethane	510.6	10.0	ug/L	501	ND	102	70-138			
Vinyl Acetate	1531	50.0	ug/L	1400	ND	109	58-142			
cis-1,2-Dichloroethylene	489.6	10.0	ug/L	504	ND	97.2	68-151			
2-Butanone (MEK)	887.8	100	ug/L	1000	ND	88.8	50-160			
Bromochloromethane	480.3	10.0	ug/L	504	ND	95.3	65-143			
Chloroform	492.5	10.0	ug/L	501	ND	98.3	71-143			
1,1,1-Trichloroethane	550.8	10.0	ug/L	501	ND	110	63-133			
Carbon Tetrachloride	548.8	10.0	ug/L	501	ND	110	63-142			
Benzene	543.1	10.0	ug/L	504	ND	108	69-133			
1,2-Dichloroethane	560.4	10.0	ug/L	501	ND	112	63-138			
Trichloroethylene	551.0	10.0	ug/L	501	ND	110	71-133			
1,2-Dichloropropane	538.8	10.0	ug/L	501	ND	108	69-132			
Dibromomethane	497.4	10.0	ug/L	504	ND	98.8	70-147			
Bromodichloromethane	578.7	10.0	ug/L	501	ND	116	67-130			
cis-1,3-Dichloropropene	455.3	10.0	ug/L	501	ND	90.9	61-126			
4-Methyl-2-pentanone (MIBK)	846.6	50.0	ug/L	1000	ND	84.7	55-147			
Toluene	536.0	10.0	ug/L	505	ND	106	71-133			
trans-1,3-Dichloropropene	448.2	10.0	ug/L	501	ND	89.5	63-124			
1,1,2-Trichloroethane	512.0	10.0	ug/L	501	ND	102	69-133			
Tetrachloroethylene	552.3	10.0	ug/L	501	ND	110	70-124			
2-Hexanone (MBK)	796.2	50.0	ug/L	1000	ND	79.6	53-141			
Dibromochloromethane	534.7	10.0	ug/L	501	ND	107	74-122			
1,2-Dibromoethane	497.7	10.0	ug/L	502	ND	99.1	66-127			
Chlorobenzene	512.4	10.0	ug/L	501	ND	102	76-116			
1,1,1,2-Tetrachloroethane	538.7	10.0	ug/L	503	ND	107	77-121			
Ethylbenzene	548.2	10.0	ug/L	502	ND	109	73-124			
Xylenes, total	1670	20.0	ug/L	1510	ND	111	75-123			
Styrene	500.3	10.0	ug/L	504	ND	99.3	70-120			
Bromoform	517.0	10.0	ug/L	501	ND	103	70-124			
1,2,3-Trichloropropane	522.2	10.0	ug/L	503	ND	104	62-135			
trans-1,4-Dichloro-2-butene	837.4	50.0	ug/L	1000	ND	83.7	50-120			

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CERTIFICATE OF ANALYSIS

1IC1728

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1IC1443 - EPA 5030B - EPA 8260D										
Matrix Spike (1IC1443-MS1)	Source: 1IC1728-01			Prepared: 03/27/25 00:00 Analyzed: 03/27/25 20:19						
1,1,2,2-Tetrachloroethane	447.6	10.0	ug/L	501	ND	89.3	63-126			
1,4-Dichlorobenzene	468.1	10.0	ug/L	501	ND	93.4	72-119			
1,2-Dichlorobenzene	499.0	10.0	ug/L	501	ND	99.6	71-117			
1,2-Dibromo-3-chloropropane	406.6	50.0	ug/L	501	ND	81.1	49-134			
Surrogate: Dibromofluoromethane	501		ug/L	502		99.9	57-134			
Surrogate: Dibromofluoromethane	501		ug/L	502		99.9	75-136			
Surrogate: 1,2-Dichloroethane-d4	496		ug/L	501		99.1	53-140			
Surrogate: 1,2-Dichloroethane-d4	496		ug/L	501		99.1	61-142			
Surrogate: Toluene-d8	512		ug/L	504		102	86-114			
Surrogate: Toluene-d8	512		ug/L	504		102	82-121			
Surrogate: 4-Bromofluorobenzene	527		ug/L	501		105	78-121			
Surrogate: 4-Bromofluorobenzene	527		ug/L	501		105	80-116			
Matrix Spike Dup (1IC1443-MSD1)	Source: 1IC1728-01			Prepared: 03/27/25 00:00 Analyzed: 03/27/25 20:41						
Dichlorodifluoromethane	249.8	10.0	ug/L	303	ND	82.5	37-140	9.46	18	
Chloromethane	242.6	10.0	ug/L	303	ND	80.0	61-152	7.73	26	
Vinyl Chloride	257.9	10.0	ug/L	302	ND	85.3	66-149	6.31	23	
Bromomethane	234.7	10.0	ug/L	301	ND	77.9	43-171	4.34	29	
Chloroethane	249.2	10.0	ug/L	303	ND	82.2	69-148	8.38	25	
Trichlorofluoromethane	279.4	10.0	ug/L	303	ND	92.2	62-163	10.5	25	
1,1-Dichloroethylene	443.5	10.0	ug/L	501	ND	88.5	70-148	8.42	22	
Acetone	992.3	100	ug/L	1000	ND	99.2	45-173	1.01	30	
Methyl Iodide	972.8	10.0	ug/L	1000	ND	97.3	62-167	8.85	24	
Carbon Disulfide	845.0	10.0	ug/L	1000	ND	84.5	71-163	9.01	22	
Methylene Chloride	446.3	50.0	ug/L	501	ND	89.1	69-140	4.96	19	
Acrylonitrile	470.6	50.0	ug/L	502	ND	93.7	38-147	3.13	30	
trans-1,2-Dichloroethylene	473.0	10.0	ug/L	501	ND	94.4	69-144	7.92	22	
1,1-Dichloroethane	469.8	10.0	ug/L	501	ND	93.8	70-138	8.32	20	
Vinyl Acetate	1575	50.0	ug/L	1400	ND	112	58-142	2.80	24	
cis-1,2-Dichloroethylene	450.6	10.0	ug/L	504	ND	89.5	68-151	8.30	22	
2-Butanone (MEK)	934.8	100	ug/L	1000	ND	93.5	50-160	5.16	23	
Bromochloromethane	473.0	10.0	ug/L	504	ND	93.8	65-143	1.53	22	
Chloroform	450.9	10.0	ug/L	501	ND	90.0	71-143	8.82	21	
1,1,1-Trichloroethane	505.6	10.0	ug/L	501	ND	101	63-133	8.56	23	
Carbon Tetrachloride	495.9	10.0	ug/L	501	ND	99.0	63-142	10.1	22	
Benzene	476.2	10.0	ug/L	504	ND	94.4	69-133	13.1	18	
1,2-Dichloroethane	519.1	10.0	ug/L	501	ND	104	63-138	7.65	20	
Trichloroethylene	488.9	10.0	ug/L	501	ND	97.6	71-133	11.9	23	
1,2-Dichloropropane	494.5	10.0	ug/L	501	ND	98.7	69-132	8.57	20	
Dibromomethane	468.7	10.0	ug/L	504	ND	93.1	70-147	5.94	22	
Bromodichloromethane	520.4	10.0	ug/L	501	ND	104	67-130	10.6	21	
cis-1,3-Dichloropropene	421.0	10.0	ug/L	501	ND	84.1	61-126	7.83	21	
4-Methyl-2-pentanone (MIBK)	845.4	50.0	ug/L	1000	ND	84.5	55-147	0.142	23	
Toluene	477.2	10.0	ug/L	505	ND	94.5	71-133	11.6	19	

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1IC1728

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1IC1443 - EPA 5030B - EPA 8260D										
Matrix Spike Dup (1IC1443-MSD1)		Source: 1IC1728-01		Prepared: 03/27/25 00:00 Analyzed: 03/27/25 20:41						
trans-1,3-Dichloropropene	419.6	10.0	ug/L	501	ND	83.8	63-124	6.59	21	
1,1,2-Trichloroethane	472.7	10.0	ug/L	501	ND	94.4	69-133	7.98	19	
Tetrachloroethylene	478.5	10.0	ug/L	501	ND	95.5	70-124	14.3	24	
2-Hexanone (MBK)	796.6	50.0	ug/L	1000	ND	79.7	53-141	0.0502	24	
Dibromochloromethane	500.0	10.0	ug/L	501	ND	99.9	74-122	6.71	21	
1,2-Dibromoethane	465.4	10.0	ug/L	502	ND	92.7	66-127	6.71	23	
Chlorobenzene	455.2	10.0	ug/L	501	ND	90.9	76-116	11.8	21	
1,1,1,2-Tetrachloroethane	477.5	10.0	ug/L	503	ND	94.8	77-121	12.0	25	
Ethylbenzene	474.9	10.0	ug/L	502	ND	94.7	73-124	14.3	20	
Xylenes, total	1461	20.0	ug/L	1510	ND	96.7	75-123	13.3	20	
Styrene	437.5	10.0	ug/L	504	ND	86.9	70-120	13.4	23	
Bromoform	507.8	10.0	ug/L	501	ND	101	70-124	1.80	22	
1,2,3-Trichloropropane	487.8	10.0	ug/L	503	ND	96.9	62-135	6.81	28	
trans-1,4-Dichloro-2-butene	828.4	50.0	ug/L	1000	ND	82.8	50-120	1.08	26	
1,1,2,2-Tetrachloroethane	434.4	10.0	ug/L	501	ND	86.7	63-126	2.99	24	
1,4-Dichlorobenzene	432.5	10.0	ug/L	501	ND	86.3	72-119	7.91	24	
1,2-Dichlorobenzene	462.4	10.0	ug/L	501	ND	92.3	71-117	7.61	24	
1,2-Dibromo-3-chloropropane	409.0	50.0	ug/L	501	ND	81.6	49-134	0.589	28	
Surrogate: Dibromofluoromethane	525		ug/L	502		105	57-134			
Surrogate: Dibromofluoromethane	525		ug/L	502		105	75-136			
Surrogate: 1,2-Dichloroethane-d4	546		ug/L	501		109	53-140			
Surrogate: 1,2-Dichloroethane-d4	546		ug/L	501		109	61-142			
Surrogate: Toluene-d8	510		ug/L	504		101	86-114			
Surrogate: Toluene-d8	510		ug/L	504		101	82-121			
Surrogate: 4-Bromofluorobenzene	523		ug/L	501		104	78-121			
Surrogate: 4-Bromofluorobenzene	523		ug/L	501		104	80-116			

Batch 1IC1489 - EPA 5030B - EPA 8260D

Blank (1IC1489-BLK1)		Prepared: 03/28/25 00:00 Analyzed: 03/28/25 14:51								
Chloromethane	<1.0	1.0	ug/L							
Vinyl Chloride	<1.0	1.0	ug/L							
Bromomethane	<1.0	1.0	ug/L							
Chloroethane	<1.0	1.0	ug/L							
Trichlorofluoromethane	<1.0	1.0	ug/L							
1,1-Dichloroethylene	<1.0	1.0	ug/L							
Acetone	<10.0	10.0	ug/L							
Methyl Iodide	<1.0	1.0	ug/L							
Carbon Disulfide	<1.0	1.0	ug/L							
Methylene Chloride	<5.0	5.0	ug/L							
Acrylonitrile	<5.0	5.0	ug/L							
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L							
1,1-Dichloroethane	<1.0	1.0	ug/L							
Vinyl Acetate	<5.0	5.0	ug/L							

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CERTIFICATE OF ANALYSIS

1IC1728

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1IC1489 - EPA 5030B - EPA 8260D										
Blank (1IC1489-BLK1)				Prepared: 03/28/25 00:00 Analyzed: 03/28/25 14:51						
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L							
2-Butanone (MEK)	<10.0	10.0	ug/L							
Bromochloromethane	<1.0	1.0	ug/L							
Chloroform	<1.0	1.0	ug/L							
1,1,1-Trichloroethane	<1.0	1.0	ug/L							
Carbon Tetrachloride	<1.0	1.0	ug/L							
Benzene	<1.0	1.0	ug/L							
1,2-Dichloroethane	<1.0	1.0	ug/L							
Trichloroethylene	<1.0	1.0	ug/L							
1,2-Dichloropropane	<1.0	1.0	ug/L							
Dibromomethane	<1.0	1.0	ug/L							
Bromodichloromethane	<1.0	1.0	ug/L							
cis-1,3-Dichloropropene	<1.0	1.0	ug/L							
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L							
Toluene	<1.0	1.0	ug/L							
trans-1,3-Dichloropropene	<1.0	1.0	ug/L							
1,1,2-Trichloroethane	<1.0	1.0	ug/L							
Tetrachloroethylene	<1.0	1.0	ug/L							
2-Hexanone (MBK)	<5.0	5.0	ug/L							
Dibromochloromethane	<1.0	1.0	ug/L							
1,2-Dibromoethane	<1.0	1.0	ug/L							
Chlorobenzene	<1.0	1.0	ug/L							
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L							
Ethylbenzene	<1.0	1.0	ug/L							
Xylenes, total	<2.0	2.0	ug/L							
Styrene	<1.0	1.0	ug/L							
Bromoform	<1.0	1.0	ug/L							
1,2,3-Trichloropropane	<1.0	1.0	ug/L							
trans-1,4-Dichloro-2-butene	<5.0	5.0	ug/L							
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L							
1,4-Dichlorobenzene	<1.0	1.0	ug/L							
1,2-Dichlorobenzene	<1.0	1.0	ug/L							
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L							
Surrogate: Dibromofluoromethane	42.0		ug/L	50.2		83.6	57-134			
Surrogate: Dibromofluoromethane	42.0		ug/L	50.2		83.6	75-136			
Surrogate: 1,2-Dichloroethane-d4	38.4		ug/L	50.1		76.7	53-140			
Surrogate: 1,2-Dichloroethane-d4	38.4		ug/L	50.1		76.7	61-142			
Surrogate: Toluene-d8	52.8		ug/L	50.4		105	86-114			
Surrogate: Toluene-d8	52.8		ug/L	50.4		105	82-121			
Surrogate: 4-Bromofluorobenzene	46.9		ug/L	50.1		93.5	78-121			
Surrogate: 4-Bromofluorobenzene	46.9		ug/L	50.1		93.5	80-116			
LCS (1IC1489-BS1)				Prepared: 03/28/25 00:00 Analyzed: 03/28/25 13:44						
Chloromethane	29.81	1.0	ug/L	30.3		98.3	63-155			

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CERTIFICATE OF ANALYSIS

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Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1IC1489 - EPA 5030B - EPA 8260D										
LCS (1IC1489-BS1)				Prepared: 03/28/25 00:00 Analyzed: 03/28/25 13:44						
Vinyl Chloride	29.69	1.0	ug/L	30.2		98.2	70-154			
Bromomethane	28.25	1.0	ug/L	30.1		93.8	52-176			
Chloroethane	30.17	1.0	ug/L	30.3		99.5	72-148			
Trichlorofluoromethane	31.76	1.0	ug/L	30.3		105	70-152			
1,1-Dichloroethylene	52.93	1.0	ug/L	50.1		106	70-148			
Acetone	130.4	10.0	ug/L	100		130	43-172			
Methyl Iodide	97.19	1.0	ug/L	100		97.2	69-170			
Carbon Disulfide	99.74	1.0	ug/L	100		99.7	72-162			
Methylene Chloride	50.56	5.0	ug/L	50.1		101	68-142			
Acrylonitrile	58.85	5.0	ug/L	50.2		117	56-135			
trans-1,2-Dichloroethylene	53.43	1.0	ug/L	50.1		107	66-148			
1,1-Dichloroethane	55.08	1.0	ug/L	50.1		110	66-143			
Vinyl Acetate	175.0	5.0	ug/L	140		125	43-153			
cis-1,2-Dichloroethylene	55.02	1.0	ug/L	50.4		109	71-149			
2-Butanone (MEK)	113.8	10.0	ug/L	100		114	52-159			
Bromochloromethane	58.61	1.0	ug/L	50.4		116	69-143			
Chloroform	55.04	1.0	ug/L	50.1		110	69-144			
1,1,1-Trichloroethane	52.88	1.0	ug/L	50.1		106	62-129			
Carbon Tetrachloride	51.98	1.0	ug/L	50.1		104	63-141			
Benzene	50.45	1.0	ug/L	50.4		100	71-134			
1,2-Dichloroethane	58.66	1.0	ug/L	50.1		117	72-132			
Trichloroethylene	50.31	1.0	ug/L	50.1		100	71-135			
1,2-Dichloropropane	54.29	1.0	ug/L	50.1		108	69-136			
Dibromomethane	59.61	1.0	ug/L	50.4		118	73-147			
Bromodichloromethane	58.55	1.0	ug/L	50.1		117	68-129			
cis-1,3-Dichloropropene	55.82	1.0	ug/L	50.1		111	65-134			
4-Methyl-2-pentanone (MIBK)	124.3	5.0	ug/L	100		124	58-147			
Toluene	54.21	1.0	ug/L	50.5		107	72-133			
trans-1,3-Dichloropropene	55.10	1.0	ug/L	50.1		110	67-130			
1,1,2-Trichloroethane	54.15	1.0	ug/L	50.1		108	69-135			
Tetrachloroethylene	46.37	1.0	ug/L	50.1		92.6	69-130			
2-Hexanone (MBK)	124.7	5.0	ug/L	100		125	55-144			
Dibromochloromethane	56.69	1.0	ug/L	50.1		113	73-127			
1,2-Dibromoethane	56.24	1.0	ug/L	50.2		112	67-132			
Chlorobenzene	49.34	1.0	ug/L	50.1		98.5	72-123			
1,1,1,2-Tetrachloroethane	49.00	1.0	ug/L	50.3		97.3	73-127			
Ethylbenzene	51.55	1.0	ug/L	50.2		103	71-127			
Xylenes, total	155.5	2.0	ug/L	151		103	74-127			
Styrene	55.43	1.0	ug/L	50.4		110	66-126			
Bromoform	56.78	1.0	ug/L	50.1		113	68-130			
1,2,3-Trichloropropane	51.90	1.0	ug/L	50.3		103	63-136			
trans-1,4-Dichloro-2-butene	115.6	5.0	ug/L	100		116	54-134			
1,1,2,2-Tetrachloroethane	54.67	1.0	ug/L	50.1		109	61-131			

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CERTIFICATE OF ANALYSIS

1IC1728

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1IC1489 - EPA 5030B - EPA 8260D										
LCS (1IC1489-BS1) Prepared: 03/28/25 00:00 Analyzed: 03/28/25 13:44										
1,4-Dichlorobenzene	47.25	1.0	ug/L	50.1		94.3	70-129			
1,2-Dichlorobenzene	50.82	1.0	ug/L	50.1		101	69-126			
1,2-Dibromo-3-chloropropane	60.75	5.0	ug/L	50.1		121	50-143			
Surrogate: Dibromofluoromethane	53.1		ug/L	50.2		106	57-134			
Surrogate: Dibromofluoromethane	53.1		ug/L	50.2		106	75-136			
Surrogate: 1,2-Dichloroethane-d4	55.0		ug/L	50.1		110	53-140			
Surrogate: 1,2-Dichloroethane-d4	55.0		ug/L	50.1		110	61-142			
Surrogate: Toluene-d8	50.8		ug/L	50.4		101	86-114			
Surrogate: Toluene-d8	50.8		ug/L	50.4		101	82-121			
Surrogate: 4-Bromofluorobenzene	50.7		ug/L	50.1		101	78-121			
Surrogate: 4-Bromofluorobenzene	50.7		ug/L	50.1		101	80-116			
LCS Dup (1IC1489-BS1) Prepared: 03/28/25 00:00 Analyzed: 03/28/25 14:06										
Chloromethane	30.47	1.0	ug/L	30.3		100	63-155	2.19	24	
Vinyl Chloride	31.13	1.0	ug/L	30.2		103	70-154	4.74	25	
Bromomethane	28.43	1.0	ug/L	30.1		94.4	52-176	0.635	27	
Chloroethane	30.80	1.0	ug/L	30.3		102	72-148	2.07	25	
Trichlorofluoromethane	33.09	1.0	ug/L	30.3		109	70-152	4.10	26	
1,1-Dichloroethylene	55.40	1.0	ug/L	50.1		111	70-148	4.56	24	
Acetone	130.7	10.0	ug/L	100		131	43-172	0.245	30	
Methyl Iodide	101.2	1.0	ug/L	100		101	69-170	4.08	30	
Carbon Disulfide	105.0	1.0	ug/L	100		105	72-162	5.10	24	
Methylene Chloride	51.76	5.0	ug/L	50.1		103	68-142	2.35	21	
Acrylonitrile	59.55	5.0	ug/L	50.2		119	56-135	1.18	16	
trans-1,2-Dichloroethylene	55.63	1.0	ug/L	50.1		111	66-148	4.03	27	
1,1-Dichloroethane	56.61	1.0	ug/L	50.1		113	66-143	2.74	24	
Vinyl Acetate	182.4	5.0	ug/L	140		130	43-153	4.15	30	
cis-1,2-Dichloroethylene	57.64	1.0	ug/L	50.4		114	71-149	4.65	26	
2-Butanone (MEK)	122.2	10.0	ug/L	100		122	52-159	7.14	27	
Bromochloromethane	59.66	1.0	ug/L	50.4		118	69-143	1.78	23	
Chloroform	56.14	1.0	ug/L	50.1		112	69-144	1.98	23	
1,1,1-Trichloroethane	55.94	1.0	ug/L	50.1		112	62-129	5.62	24	
Carbon Tetrachloride	54.26	1.0	ug/L	50.1		108	63-141	4.29	25	
Benzene	51.14	1.0	ug/L	50.4		101	71-134	1.36	24	
1,2-Dichloroethane	58.45	1.0	ug/L	50.1		117	72-132	0.359	24	
Trichloroethylene	50.59	1.0	ug/L	50.1		101	71-135	0.555	24	
1,2-Dichloropropane	54.57	1.0	ug/L	50.1		109	69-136	0.514	24	
Dibromomethane	60.25	1.0	ug/L	50.4		120	73-147	1.07	25	
Bromodichloromethane	57.82	1.0	ug/L	50.1		115	68-129	1.25	22	
cis-1,3-Dichloropropene	56.37	1.0	ug/L	50.1		113	65-134	0.980	23	
4-Methyl-2-pentanone (MIBK)	124.0	5.0	ug/L	100		124	58-147	0.234	27	
Toluene	55.34	1.0	ug/L	50.5		110	72-133	2.06	24	
trans-1,3-Dichloropropene	57.08	1.0	ug/L	50.1		114	67-130	3.53	24	
1,1,2-Trichloroethane	52.78	1.0	ug/L	50.1		105	69-135	2.56	23	

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CERTIFICATE OF ANALYSIS

1IC1728

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1IC1489 - EPA 5030B - EPA 8260D										
LCS Dup (1IC1489-BSD1)										
Prepared: 03/28/25 00:00 Analyzed: 03/28/25 14:06										
Tetrachloroethylene	49.50	1.0	ug/L	50.1		98.8	69-130	6.53	25	
2-Hexanone (MBK)	128.2	5.0	ug/L	100		128	55-144	2.82	25	
Dibromochloromethane	57.63	1.0	ug/L	50.1		115	73-127	1.64	22	
1,2-Dibromoethane	58.34	1.0	ug/L	50.2		116	67-132	3.67	24	
Chlorobenzene	51.83	1.0	ug/L	50.1		103	72-123	4.92	23	
1,1,1,2-Tetrachloroethane	51.17	1.0	ug/L	50.3		102	73-127	4.33	24	
Ethylbenzene	54.09	1.0	ug/L	50.2		108	71-127	4.81	26	
Xylenes, total	164.0	2.0	ug/L	151		109	74-127	5.33	25	
Styrene	57.80	1.0	ug/L	50.4		115	66-126	4.19	23	
Bromoform	57.43	1.0	ug/L	50.1		115	68-130	1.14	23	
1,2,3-Trichloropropane	56.21	1.0	ug/L	50.3		112	63-136	7.97	24	
trans-1,4-Dichloro-2-butene	118.6	5.0	ug/L	100		119	54-134	2.55	27	
1,1,2,2-Tetrachloroethane	55.17	1.0	ug/L	50.1		110	61-131	0.910	29	
1,4-Dichlorobenzene	48.02	1.0	ug/L	50.1		95.8	70-129	1.62	24	
1,2-Dichlorobenzene	51.85	1.0	ug/L	50.1		104	69-126	2.01	26	
1,2-Dibromo-3-chloropropane	56.32	5.0	ug/L	50.1		112	50-143	7.57	30	
Surrogate: Dibromofluoromethane	54.0		ug/L	50.2		108	57-134			
Surrogate: Dibromofluoromethane	54.0		ug/L	50.2		108	75-136			
Surrogate: 1,2-Dichloroethane-d4	55.4		ug/L	50.1		111	53-140			
Surrogate: 1,2-Dichloroethane-d4	55.4		ug/L	50.1		111	61-142			
Surrogate: Toluene-d8	49.5		ug/L	50.4		98.3	86-114			
Surrogate: Toluene-d8	49.5		ug/L	50.4		98.3	82-121			
Surrogate: 4-Bromofluorobenzene	51.2		ug/L	50.1		102	78-121			
Surrogate: 4-Bromofluorobenzene	51.2		ug/L	50.1		102	80-116			
Matrix Spike (1IC1489-MS1)										
Source: 1IC1753-01 Prepared: 03/28/25 00:00 Analyzed: 03/28/25 22:59										
Chloromethane	289.9	10.0	ug/L	303	ND	95.6	61-152			
Vinyl Chloride	295.4	10.0	ug/L	302	ND	97.7	66-149			
Bromomethane	261.3	10.0	ug/L	301	ND	86.7	43-171			
Chloroethane	293.6	10.0	ug/L	303	ND	96.8	69-148			
Trichlorofluoromethane	317.3	10.0	ug/L	303	ND	105	62-163			
1,1-Dichloroethylene	519.3	10.0	ug/L	501	ND	104	70-148			
Acetone	1161	100	ug/L	1000	ND	116	45-173			
Methyl Iodide	916.1	10.0	ug/L	1000	ND	91.6	62-167			
Carbon Disulfide	975.1	10.0	ug/L	1000	ND	97.5	71-163			
Methylene Chloride	454.3	50.0	ug/L	501	ND	90.7	69-140			
Acrylonitrile	551.3	50.0	ug/L	502	ND	110	38-147			
trans-1,2-Dichloroethylene	520.6	10.0	ug/L	501	ND	104	69-144			
1,1-Dichloroethane	520.1	10.0	ug/L	501	ND	104	70-138			
Vinyl Acetate	1628	50.0	ug/L	1400	ND	116	58-142			
cis-1,2-Dichloroethylene	524.5	10.0	ug/L	504	ND	104	68-151			
2-Butanone (MEK)	1021	100	ug/L	1000	ND	102	50-160			
Bromochloromethane	525.9	10.0	ug/L	504	ND	104	65-143			
Chloroform	516.7	10.0	ug/L	501	ND	103	71-143			

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CERTIFICATE OF ANALYSIS

1IC1728

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1IC1489 - EPA 5030B - EPA 8260D										
Matrix Spike (1IC1489-MS1)	Source: 1IC1753-01			Prepared: 03/28/25 00:00 Analyzed: 03/28/25 22:59						
1,1,1-Trichloroethane	536.4	10.0	ug/L	501	ND	107	63-133			
Carbon Tetrachloride	527.2	10.0	ug/L	501	ND	105	63-142			
Benzene	493.9	10.0	ug/L	504	ND	97.9	69-133			
1,2-Dichloroethane	530.1	10.0	ug/L	501	ND	106	63-138			
Trichloroethylene	495.8	10.0	ug/L	501	ND	99.0	71-133			
1,2-Dichloropropane	501.7	10.0	ug/L	501	ND	100	69-132			
Dibromomethane	519.9	10.0	ug/L	504	ND	103	70-147			
Bromodichloromethane	525.8	10.0	ug/L	501	ND	105	67-130			
cis-1,3-Dichloropropene	491.4	10.0	ug/L	501	ND	98.1	61-126			
4-Methyl-2-pentanone (MIBK)	1030	50.0	ug/L	1000	ND	103	55-147			
Toluene	537.4	10.0	ug/L	505	ND	106	71-133			
trans-1,3-Dichloropropene	474.5	10.0	ug/L	501	ND	94.8	63-124			
1,1,2-Trichloroethane	480.0	10.0	ug/L	501	ND	95.8	69-133			
Tetrachloroethylene	496.2	10.0	ug/L	501	ND	99.0	70-124			
2-Hexanone (MBK)	1080	50.0	ug/L	1000	ND	108	53-141			
Dibromochloromethane	505.0	10.0	ug/L	501	ND	101	74-122			
1,2-Dibromoethane	519.2	10.0	ug/L	502	ND	103	66-127			
Chlorobenzene	489.4	10.0	ug/L	501	ND	97.7	76-116			
1,1,1,2-Tetrachloroethane	477.2	10.0	ug/L	503	ND	94.8	77-121			
Ethylbenzene	525.7	10.0	ug/L	502	ND	105	73-124			
Xylenes, total	1567	20.0	ug/L	1510	ND	104	75-123			
Styrene	525.3	10.0	ug/L	504	ND	104	70-120			
Bromoform	501.8	10.0	ug/L	501	ND	100	70-124			
1,2,3-Trichloropropane	452.4	10.0	ug/L	503	ND	89.9	62-135			
trans-1,4-Dichloro-2-butene	931.3	50.0	ug/L	1000	ND	93.1	50-120			
1,1,2,2-Tetrachloroethane	508.4	10.0	ug/L	501	ND	101	63-126			
1,4-Dichlorobenzene	449.1	10.0	ug/L	501	ND	89.6	72-119			
1,2-Dichlorobenzene	459.5	10.0	ug/L	501	ND	91.7	71-117			
1,2-Dibromo-3-chloropropane	419.5	50.0	ug/L	501	ND	83.7	49-134			
Surrogate: Dibromofluoromethane	512		ug/L	502		102	57-134			
Surrogate: Dibromofluoromethane	512		ug/L	502		102	75-136			
Surrogate: 1,2-Dichloroethane-d4	514		ug/L	501		103	53-140			
Surrogate: 1,2-Dichloroethane-d4	514		ug/L	501		103	61-142			
Surrogate: Toluene-d8	500		ug/L	504		99.2	86-114			
Surrogate: Toluene-d8	500		ug/L	504		99.2	82-121			
Surrogate: 4-Bromofluorobenzene	493		ug/L	501		98.4	78-121			
Surrogate: 4-Bromofluorobenzene	493		ug/L	501		98.4	80-116			
Matrix Spike Dup (1IC1489-MSD1)	Source: 1IC1753-01			Prepared: 03/28/25 00:00 Analyzed: 03/28/25 23:22						
Chloromethane	275.6	10.0	ug/L	303	ND	90.9	61-152	5.06	26	
Vinyl Chloride	283.4	10.0	ug/L	302	ND	93.7	66-149	4.15	23	
Bromomethane	253.3	10.0	ug/L	301	ND	84.1	43-171	3.11	29	
Chloroethane	275.6	10.0	ug/L	303	ND	90.9	69-148	6.32	25	
Trichlorofluoromethane	288.8	10.0	ug/L	303	ND	95.3	62-163	9.40	25	

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CERTIFICATE OF ANALYSIS

1IC1728

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1IC1489 - EPA 5030B - EPA 8260D										
Matrix Spike Dup (1IC1489-MSD1) Source: 1IC1753-01 Prepared: 03/28/25 00:00 Analyzed: 03/28/25 23:22										
1,1-Dichloroethylene	489.6	10.0	ug/L	501	ND	97.7	70-148	5.89	22	
Acetone	1190	100	ug/L	1000	ND	119	45-173	2.42	30	
Methyl Iodide	874.0	10.0	ug/L	1000	ND	87.4	62-167	4.70	24	
Carbon Disulfide	919.9	10.0	ug/L	1000	ND	92.0	71-163	5.83	22	
Methylene Chloride	430.6	50.0	ug/L	501	ND	85.9	69-140	5.36	19	
Acrylonitrile	498.8	50.0	ug/L	502	ND	99.4	38-147	10.0	30	
trans-1,2-Dichloroethylene	491.5	10.0	ug/L	501	ND	98.1	69-144	5.75	22	
1,1-Dichloroethane	486.9	10.0	ug/L	501	ND	97.2	70-138	6.59	20	
Vinyl Acetate	1477	50.0	ug/L	1400	ND	105	58-142	9.75	24	
cis-1,2-Dichloroethylene	491.5	10.0	ug/L	504	ND	97.6	68-151	6.50	22	
2-Butanone (MEK)	852.7	100	ug/L	1000	ND	85.3	50-160	17.9	23	
Bromochloromethane	503.0	10.0	ug/L	504	ND	99.8	65-143	4.45	22	
Chloroform	492.3	10.0	ug/L	501	ND	98.3	71-143	4.84	21	
1,1,1-Trichloroethane	498.0	10.0	ug/L	501	ND	99.4	63-133	7.42	23	
Carbon Tetrachloride	493.8	10.0	ug/L	501	ND	98.6	63-142	6.54	22	
Benzene	459.4	10.0	ug/L	504	ND	91.1	69-133	7.24	18	
1,2-Dichloroethane	504.2	10.0	ug/L	501	ND	101	63-138	5.01	20	
Trichloroethylene	465.8	10.0	ug/L	501	ND	93.0	71-133	6.24	23	
1,2-Dichloropropane	474.4	10.0	ug/L	501	ND	94.7	69-132	5.59	20	
Dibromomethane	505.1	10.0	ug/L	504	ND	100	70-147	2.89	22	
Bromodichloromethane	490.0	10.0	ug/L	501	ND	97.8	67-130	7.05	21	
cis-1,3-Dichloropropene	466.4	10.0	ug/L	501	ND	93.1	61-126	5.22	21	
4-Methyl-2-pentanone (MIBK)	1032	50.0	ug/L	1000	ND	103	55-147	0.107	23	
Toluene	503.5	10.0	ug/L	505	ND	99.8	71-133	6.51	19	
trans-1,3-Dichloropropene	453.6	10.0	ug/L	501	ND	90.6	63-124	4.50	21	
1,1,2-Trichloroethane	448.7	10.0	ug/L	501	ND	89.6	69-133	6.74	19	
Tetrachloroethylene	473.9	10.0	ug/L	501	ND	94.6	70-124	4.60	24	
2-Hexanone (MBK)	1077	50.0	ug/L	1000	ND	108	53-141	0.232	24	
Dibromochloromethane	493.3	10.0	ug/L	501	ND	98.5	74-122	2.34	21	
1,2-Dibromoethane	485.8	10.0	ug/L	502	ND	96.7	66-127	6.65	23	
Chlorobenzene	460.0	10.0	ug/L	501	ND	91.8	76-116	6.19	21	
1,1,1,2-Tetrachloroethane	453.9	10.0	ug/L	503	ND	90.2	77-121	5.00	25	
Ethylbenzene	500.5	10.0	ug/L	502	ND	99.8	73-124	4.91	20	
Xylenes, total	1490	20.0	ug/L	1510	ND	98.6	75-123	5.05	20	
Styrene	505.6	10.0	ug/L	504	ND	100	70-120	3.82	23	
Bromoform	465.3	10.0	ug/L	501	ND	92.8	70-124	7.55	22	
1,2,3-Trichloropropane	431.5	10.0	ug/L	503	ND	85.7	62-135	4.73	28	
trans-1,4-Dichloro-2-butene	903.6	50.0	ug/L	1000	ND	90.4	50-120	3.02	26	
1,1,2,2-Tetrachloroethane	496.3	10.0	ug/L	501	ND	99.1	63-126	2.41	24	
1,4-Dichlorobenzene	454.7	10.0	ug/L	501	ND	90.7	72-119	1.24	24	
1,2-Dichlorobenzene	462.7	10.0	ug/L	501	ND	92.4	71-117	0.694	24	
1,2-Dibromo-3-chloropropane	493.6	50.0	ug/L	501	ND	98.5	49-134	16.2	28	

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CERTIFICATE OF ANALYSIS

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Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1IC1489 - EPA 5030B - EPA 8260D										
Matrix Spike Dup (1IC1489-MSD1)		Source: 1IC1753-01		Prepared: 03/28/25 00:00 Analyzed: 03/28/25 23:22						
Surrogate: Dibromofluoromethane	502		ug/L	502		100	57-134			
Surrogate: Dibromofluoromethane	502		ug/L	502		100	75-136			
Surrogate: 1,2-Dichloroethane-d4	496		ug/L	501		99.0	53-140			
Surrogate: 1,2-Dichloroethane-d4	496		ug/L	501		99.0	61-142			
Surrogate: Toluene-d8	499		ug/L	504		99.0	86-114			
Surrogate: Toluene-d8	499		ug/L	504		99.0	82-121			
Surrogate: 4-Bromofluorobenzene	472		ug/L	501		94.2	78-121			
Surrogate: 4-Bromofluorobenzene	472		ug/L	501		94.2	80-116			

Determination of Total Metals	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1ID0321 - EPA 3005A Total Recoverable Metals - EPA 6020A										
Blank (1ID0321-BLK1)		Prepared: 04/07/25 16:34 Analyzed: 04/09/25 20:16								
Antimony, total	<0.0020	0.0020	mg/L							
Arsenic, total	<0.0040	0.0040	mg/L							
Barium, total	<0.0040	0.0040	mg/L							
Beryllium, total	<0.0040	0.0040	mg/L							
Cadmium, total	<0.0008	0.0008	mg/L							
Chromium, total	<0.0080	0.0080	mg/L							
Cobalt, total	<0.0004	0.0004	mg/L							
Copper, total	<0.0040	0.0040	mg/L							
Lead, total	<0.0040	0.0040	mg/L							
Nickel, total	<0.0040	0.0040	mg/L							
Selenium, total	<0.0040	0.0040	mg/L							
Silver, total	<0.0040	0.0040	mg/L							
Thallium, total	<0.0020	0.0020	mg/L							
Vanadium, total	<0.0200	0.0200	mg/L							
Zinc, total	<0.0200	0.0200	mg/L							

Blank (1ID0321-BLK2)		Prepared: 04/07/25 16:34 Analyzed: 06/16/25 18:53								
Antimony, total	<0.0010	0.0010	mg/L							
Arsenic, total	<0.0020	0.0020	mg/L							
Barium, total	<0.0010	0.0010	mg/L							
Beryllium, total	<0.0005	0.0005	mg/L							
Cadmium, total	<0.0002	0.0002	mg/L							
Chromium, total	<0.0010	0.0010	mg/L							
Cobalt, total	<0.0005	0.0005	mg/L							
Copper, total	<0.0050	0.0050	mg/L							
Lead, total	<0.0010	0.0010	mg/L							
Nickel, total	<0.0050	0.0050	mg/L							
Selenium, total	<0.0020	0.0020	mg/L							
Silver, total	<0.0050	0.0050	mg/L							
Thallium, total	<0.0005	0.0005	mg/L							



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CERTIFICATE OF ANALYSIS

11C1728

Determination of Total Metals	Result	RL	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch 11D0321 - EPA 3005A Total Recoverable Metals - EPA 6020A									
Blank (11D0321-BLK2) Prepared: 04/07/25 16:34 Analyzed: 06/16/25 18:53									
Vanadium, total	<0.0020	0.0020	mg/L						
Zinc, total	<0.0050	0.0050	mg/L						
LCS (11D0321-BS1) Prepared: 04/07/25 16:34 Analyzed: 04/09/25 20:22									
Antimony, total	0.0985	0.0020	mg/L	0.100		98.5	80-120		
Arsenic, total	0.0970	0.0040	mg/L	0.100		97.0	80-120		
Barium, total	0.107	0.0040	mg/L	0.100		107	80-120		
Beryllium, total	0.0969	0.0040	mg/L	0.100		96.9	80-120		
Cadmium, total	0.0959	0.0008	mg/L	0.100		95.9	80-120		
Chromium, total	0.0977	0.0080	mg/L	0.100		97.7	80-120		
Cobalt, total	0.100	0.0004	mg/L	0.100		100	80-120		
Copper, total	0.100	0.0040	mg/L	0.100		100	80-120		
Lead, total	0.0969	0.0040	mg/L	0.100		96.9	80-120		
Nickel, total	0.0980	0.0040	mg/L	0.100		98.0	80-120		
Selenium, total	0.0938	0.0040	mg/L	0.100		93.8	80-120		
Silver, total	0.0989	0.0040	mg/L	0.100		98.9	80-120		
Thallium, total	0.0953	0.0020	mg/L	0.100		95.3	80-120		
Vanadium, total	0.100	0.0200	mg/L	0.100		100	80-120		
Zinc, total	0.0942	0.0200	mg/L	0.100		94.2	80-120		
LCS (11D0321-BS2) Prepared: 04/07/25 16:34 Analyzed: 06/16/25 18:55									
Antimony, total	0.103	0.0010	mg/L	0.100		103	80-120		
Arsenic, total	0.0990	0.0020	mg/L	0.100		99.0	80-120		
Barium, total	0.116	0.0010	mg/L	0.100		116	80-120		
Beryllium, total	0.102	0.0005	mg/L	0.100		102	80-120		
Cadmium, total	0.103	0.0002	mg/L	0.100		103	80-120		
Chromium, total	0.104	0.0010	mg/L	0.100		104	80-120		
Cobalt, total	0.0984	0.0005	mg/L	0.100		98.4	80-120		
Copper, total	0.0936	0.0050	mg/L	0.100		93.6	80-120		
Lead, total	0.101	0.0010	mg/L	0.100		101	80-120		
Nickel, total	0.0943	0.0050	mg/L	0.100		94.3	80-120		
Selenium, total	0.0992	0.0020	mg/L	0.100		99.2	80-120		
Silver, total	0.109	0.0050	mg/L	0.100		109	80-120		
Thallium, total	0.107	0.0005	mg/L	0.100		107	80-120		
Vanadium, total	0.115	0.0020	mg/L	0.100		115	80-120		
Zinc, total	0.0953	0.0050	mg/L	0.100		95.3	80-120		
Matrix Spike (11D0321-MS1) Source: 11C1728-01 Prepared: 04/07/25 16:34 Analyzed: 04/09/25 20:34									
Antimony, total	0.161	0.0020	mg/L	0.100	ND	161	75-125		M1
Arsenic, total	0.163	0.0040	mg/L	0.100	0.0009	162	75-125		M1
Barium, total	0.332	0.0040	mg/L	0.100	0.0893	242	75-125		M1
Beryllium, total	0.171	0.0040	mg/L	0.100	ND	171	75-125		M1
Cadmium, total	0.155	0.0008	mg/L	0.100	0.0005	155	75-125		M1
Chromium, total	0.160	0.0080	mg/L	0.100	0.0013	159	75-125		M1
Cobalt, total	0.165	0.0004	mg/L	0.100	ND	165	75-125		M1
Copper, total	0.159	0.0040	mg/L	0.100	0.0012	158	75-125		M1

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Determination of Total Metals	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1ID0321 - EPA 3005A Total Recoverable Metals - EPA 6020A										
Matrix Spike (1ID0321-MS1) Source: 1IC1728-01 Prepared: 04/07/25 16:34 Analyzed: 04/09/25 20:34										
Lead, total	0.155	0.0040	mg/L	0.100	ND	155	75-125			M1
Nickel, total	0.161	0.0040	mg/L	0.100	ND	161	75-125			M1
Selenium, total	0.1656	0.0040	mg/L	0.100	ND	166	75-125			M1
Silver, total	0.161	0.0040	mg/L	0.100	ND	161	75-125			M1
Thallium, total	0.157	0.0020	mg/L	0.100	0.0003	157	75-125			M1
Vanadium, total	0.169	0.0200	mg/L	0.100	ND	169	75-125			M1
Zinc, total	0.154	0.0200	mg/L	0.100	ND	154	75-125			M1
Matrix Spike (1ID0321-MS2) Source: 1IC1728-01RE1 Prepared: 04/07/25 16:34 Analyzed: 06/16/25 19:00										
Antimony, total	0.108	0.0010	mg/L	0.100	ND	108	75-125			
Arsenic, total	0.0999	0.0020	mg/L	0.100	ND	99.9	75-125			
Barium, total	0.220	0.0010	mg/L	0.100	0.0964	124	75-125			
Beryllium, total	0.101	0.0005	mg/L	0.100	ND	101	75-125			
Cadmium, total	0.103	0.0002	mg/L	0.100	0.0005	103	75-125			
Chromium, total	0.106	0.0010	mg/L	0.100	0.0016	105	75-125			
Cobalt, total	0.0935	0.0005	mg/L	0.100	0.00008	93.4	75-125			
Copper, total	0.0889	0.0050	mg/L	0.100	0.0021	86.8	75-125			
Lead, total	0.0994	0.0010	mg/L	0.100	ND	99.4	75-125			
Nickel, total	0.0896	0.0050	mg/L	0.100	0.0010	88.7	75-125			
Selenium, total	0.1021	0.0020	mg/L	0.100	0.0021	99.9	75-125			
Silver, total	0.109	0.0050	mg/L	0.100	ND	109	75-125			
Thallium, total	0.110	0.0005	mg/L	0.100	ND	110	75-125			
Vanadium, total	0.114	0.0020	mg/L	0.100	0.0003	114	75-125			
Zinc, total	0.0942	0.0050	mg/L	0.100	0.0027	94.2	75-125			
Matrix Spike Dup (1ID0321-MSD1) Source: 1IC1728-01 Prepared: 04/07/25 16:34 Analyzed: 04/09/25 20:41										
Antimony, total	0.118	0.0020	mg/L	0.100	ND	118	75-125	30.9	20	R1
Arsenic, total	0.119	0.0040	mg/L	0.100	0.0009	118	75-125	31.2	20	R1
Barium, total	0.247	0.0040	mg/L	0.100	0.0893	158	75-125	29.3	20	M1, R1
Beryllium, total	0.119	0.0040	mg/L	0.100	ND	119	75-125	35.6	20	R1
Cadmium, total	0.115	0.0008	mg/L	0.100	0.0005	114	75-125	29.7	20	R1
Chromium, total	0.114	0.0080	mg/L	0.100	0.0013	113	75-125	33.3	20	R1
Cobalt, total	0.120	0.0004	mg/L	0.100	ND	120	75-125	31.5	20	R1
Copper, total	0.117	0.0040	mg/L	0.100	0.0012	116	75-125	30.8	20	R1
Lead, total	0.114	0.0040	mg/L	0.100	ND	114	75-125	30.3	20	R1
Nickel, total	0.120	0.0040	mg/L	0.100	ND	120	75-125	29.4	20	R1
Selenium, total	0.1173	0.0040	mg/L	0.100	ND	117	75-125	34.1	20	R1
Silver, total	0.118	0.0040	mg/L	0.100	ND	118	75-125	30.9	20	R1
Thallium, total	0.115	0.0020	mg/L	0.100	0.0003	115	75-125	31.1	20	R1
Vanadium, total	0.121	0.0200	mg/L	0.100	ND	121	75-125	32.5	20	R1
Zinc, total	0.110	0.0200	mg/L	0.100	ND	110	75-125	32.6	20	R1
Matrix Spike Dup (1ID0321-MSD2) Source: 1IC1728-01RE1 Prepared: 04/07/25 16:34 Analyzed: 06/16/25 19:02										
Antimony, total	0.103	0.0010	mg/L	0.100	ND	103	75-125	4.13	20	
Arsenic, total	0.0966	0.0020	mg/L	0.100	ND	96.6	75-125	3.35	20	
Barium, total	0.214	0.0010	mg/L	0.100	0.0964	117	75-125	2.98	20	

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1IC1728

Determination of Total Metals	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1ID0321 - EPA 3005A Total Recoverable Metals - EPA 6020A										
Matrix Spike Dup (1ID0321-MSD2) Source: 1IC1728-01RE1 Prepared: 04/07/25 16:34 Analyzed: 06/16/25 19:02										
Beryllium, total	0.0969	0.0005	mg/L	0.100	ND	96.9	75-125	3.84	20	
Cadmium, total	0.0988	0.0002	mg/L	0.100	0.0005	98.3	75-125	4.49	20	
Chromium, total	0.101	0.0010	mg/L	0.100	0.0016	99.0	75-125	5.46	20	
Cobalt, total	0.0919	0.0005	mg/L	0.100	0.00008	91.8	75-125	1.72	20	
Copper, total	0.0847	0.0050	mg/L	0.100	0.0021	82.6	75-125	4.77	20	
Lead, total	0.0969	0.0010	mg/L	0.100	ND	96.9	75-125	2.60	20	
Nickel, total	0.0860	0.0050	mg/L	0.100	0.0010	85.0	75-125	4.18	20	
Selenium, total	0.0978	0.0020	mg/L	0.100	0.0021	95.7	75-125	4.25	20	
Silver, total	0.107	0.0050	mg/L	0.100	ND	107	75-125	1.45	20	
Thallium, total	0.104	0.0005	mg/L	0.100	ND	104	75-125	5.59	20	
Vanadium, total	0.107	0.0020	mg/L	0.100	0.0003	107	75-125	6.04	20	
Zinc, total	0.0900	0.0050	mg/L	0.100	0.0027	90.0	75-125	4.47	20	
Post Spike (1ID0321-PS1) Source: 1IC1728-01 Prepared: 04/07/25 16:34 Analyzed: 04/09/25 20:47										
Antimony, total	0.0759		mg/L	0.0800	0.0001	94.7	80-120			
Arsenic, total	0.0777		mg/L	0.0800	0.0009	96.0	80-120			
Barium, total	0.166		mg/L	0.0800	0.0875	98.3	80-120			
Beryllium, total	0.0830		mg/L	0.0800	0.000009	104	80-120			
Cadmium, total	0.0737		mg/L	0.0800	0.0005	91.6	80-120			
Chromium, total	0.0760		mg/L	0.0800	0.0012	93.5	80-120			
Cobalt, total	0.0783		mg/L	0.0800	0.00005	97.8	80-120			
Copper, total	0.0753		mg/L	0.0800	0.0011	92.7	80-120			
Lead, total	0.0739		mg/L	0.0800	0.00004	92.4	80-120			
Nickel, total	0.0776		mg/L	0.0800	0.0009	95.9	80-120			
Selenium, total	0.0745		mg/L	0.0800	0.0013	91.5	80-120			
Silver, total	0.0769		mg/L	0.0800	0.0002	96.0	80-120			
Thallium, total	0.0743		mg/L	0.0800	0.0003	92.5	80-120			
Vanadium, total	0.0805		mg/L	0.0800	0.0032	96.7	80-120			
Zinc, total	0.0713		mg/L	0.0800	-0.0007	89.1	80-120			
Post Spike (1ID0321-PS2) Source: 1IC1728-01RE1 Prepared: 04/07/25 16:34 Analyzed: 06/16/25 19:09										
Antimony, total	0.0194		mg/L	0.0200	0.0003	95.5	80-120			
Arsenic, total	0.0196		mg/L	0.0200	0.0001	97.1	80-120			
Barium, total	0.115		mg/L	0.0200	0.0945	105	80-120			
Beryllium, total	0.0197		mg/L	0.0200	0.000006	98.3	80-120			
Cadmium, total	0.0198		mg/L	0.0200	0.0005	96.6	80-120			
Chromium, total	0.0206		mg/L	0.0200	0.0015	95.4	80-120			
Cobalt, total	0.0177		mg/L	0.0200	0.00008	88.3	80-120			
Copper, total	0.0189		mg/L	0.0200	0.0020	84.5	80-120			
Lead, total	0.0186		mg/L	0.0200	0.00005	92.8	80-120			
Nickel, total	0.0182		mg/L	0.0200	0.0010	86.2	80-120			
Selenium, total	0.0205		mg/L	0.0200	0.0021	91.9	80-120			
Silver, total	0.0198		mg/L	0.0200	0.000007	99.0	80-120			
Thallium, total	0.0196		mg/L	0.0200	0.000006	98.0	80-120			
Vanadium, total	0.0202		mg/L	0.0200	0.0003	99.7	80-120			

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CERTIFICATE OF ANALYSIS

1IC1728

Determination of Total Metals	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1ID0321 - EPA 3005A Total Recoverable Metals - EPA 6020A										
Post Spike (1ID0321-PS2)		Source: 1IC1728-01RE1 Prepared: 04/07/25 16:34 Analyzed: 06/16/25 19:09								
Zinc, total	0.0212		mg/L	0.0200	0.0027	92.5	80-120			
Batch 1ID0403 - EPA 3005A Total Recoverable Metals - EPA 6020A										
Blank (1ID0403-BLK1)		Prepared: 04/17/25 15:55 Analyzed: 06/16/25 19:30								
Antimony, total	<0.0010	0.0010	mg/L							
Arsenic, total	<0.0020	0.0020	mg/L							
Barium, total	<0.0010	0.0010	mg/L							
Beryllium, total	<0.0005	0.0005	mg/L							
Cadmium, total	<0.0002	0.0002	mg/L							
Chromium, total	<0.0010	0.0010	mg/L							B
Cobalt, total	<0.0005	0.0005	mg/L							
Copper, total	<0.0050	0.0050	mg/L							
Lead, total	<0.0010	0.0010	mg/L							
Nickel, total	<0.0050	0.0050	mg/L							
Selenium, total	<0.0020	0.0020	mg/L							
Silver, total	<0.0050	0.0050	mg/L							
Thallium, total	<0.0005	0.0005	mg/L							
Vanadium, total	<0.0020	0.0020	mg/L							
Zinc, total	<0.0050	0.0050	mg/L							
LCS (1ID0403-BS1)		Prepared: 04/17/25 15:55 Analyzed: 06/16/25 19:38								
Antimony, total	0.102	0.0010	mg/L	0.100		102	80-120			
Arsenic, total	0.0954	0.0020	mg/L	0.100		95.4	80-120			
Barium, total	0.112	0.0010	mg/L	0.100		112	80-120			
Beryllium, total	0.0963	0.0005	mg/L	0.100		96.3	80-120			
Cadmium, total	0.0994	0.0002	mg/L	0.100		99.4	80-120			
Chromium, total	0.103	0.0010	mg/L	0.100		103	80-120			
Cobalt, total	0.0976	0.0005	mg/L	0.100		97.6	80-120			
Copper, total	0.0933	0.0050	mg/L	0.100		93.3	80-120			
Lead, total	0.0959	0.0010	mg/L	0.100		95.9	80-120			
Nickel, total	0.0904	0.0050	mg/L	0.100		90.4	80-120			
Selenium, total	0.0954	0.0020	mg/L	0.100		95.4	80-120			
Silver, total	0.107	0.0050	mg/L	0.100		107	80-120			
Thallium, total	0.105	0.0005	mg/L	0.100		105	80-120			
Vanadium, total	0.108	0.0020	mg/L	0.100		108	80-120			
Zinc, total	0.0935	0.0050	mg/L	0.100		93.5	80-120			
Matrix Spike (1ID0403-MS1)		Source: 1IC1753-01 Prepared: 04/17/25 15:55 Analyzed: 06/16/25 19:44								
Antimony, total	0.105	0.0010	mg/L	0.100	ND	105	75-125			
Arsenic, total	0.0283	0.0020	mg/L	0.100	ND	28.3	75-125			M2
Barium, total	0.121	0.0010	mg/L	0.100	0.0095	111	75-125			
Beryllium, total	0.0857	0.0005	mg/L	0.100	0.0003	85.4	75-125			
Cadmium, total	0.0986	0.0002	mg/L	0.100	0.0002	98.5	75-125			
Chromium, total	0.100	0.0010	mg/L	0.100	0.0008	99.2	75-125			
Cobalt, total	0.131	0.0005	mg/L	0.100	0.0374	93.6	75-125			

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CERTIFICATE OF ANALYSIS

11C1728

Determination of Total Metals	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 11D0403 - EPA 3005A Total Recoverable Metals - EPA 6020A										
Matrix Spike (11D0403-MS1) Source: 11C1753-01 Prepared: 04/17/25 15:55 Analyzed: 06/16/25 19:44										
Copper, total	0.0722	0.0050	mg/L	0.100	0.0021	70.2	75-125			M2
Lead, total	0.0960	0.0010	mg/L	0.100	ND	96.0	75-125			
Nickel, total	0.126	0.0050	mg/L	0.100	0.0534	73.0	75-125			M2
Selenium, total	0.0290	0.0020	mg/L	0.100	ND	29.0	75-125			M2
Silver, total	0.104	0.0050	mg/L	0.100	ND	104	75-125			
Thallium, total	0.103	0.0005	mg/L	0.100	0.00005	103	75-125			
Vanadium, total	0.107	0.0020	mg/L	0.100	ND	107	75-125			
Zinc, total	0.341	0.0050	mg/L	0.100	0.238	103	75-125			
Matrix Spike Dup (11D0403-MSD1) Source: 11C1753-01 Prepared: 04/17/25 15:55 Analyzed: 06/16/25 19:47										
Antimony, total	0.103	0.0010	mg/L	0.100	ND	103	75-125	2.58	20	
Arsenic, total	0.0279	0.0020	mg/L	0.100	ND	27.9	75-125	1.63	20	M2
Barium, total	0.122	0.0010	mg/L	0.100	0.0095	112	75-125	1.15	20	
Beryllium, total	0.0838	0.0005	mg/L	0.100	0.0003	83.5	75-125	2.27	20	
Cadmium, total	0.0966	0.0002	mg/L	0.100	0.0002	96.4	75-125	2.10	20	
Chromium, total	0.103	0.0010	mg/L	0.100	0.0008	102	75-125	2.82	20	
Cobalt, total	0.129	0.0005	mg/L	0.100	0.0374	91.3	75-125	1.80	20	
Copper, total	0.0721	0.0050	mg/L	0.100	0.0021	70.0	75-125	0.193	20	M2
Lead, total	0.0954	0.0010	mg/L	0.100	ND	95.4	75-125	0.625	20	
Nickel, total	0.128	0.0050	mg/L	0.100	0.0534	74.3	75-125	1.05	20	M2
Selenium, total	0.0286	0.0020	mg/L	0.100	ND	28.6	75-125	1.53	20	M2
Silver, total	0.104	0.0050	mg/L	0.100	ND	104	75-125	0.220	20	
Thallium, total	0.103	0.0005	mg/L	0.100	0.00005	103	75-125	0.197	20	
Vanadium, total	0.110	0.0020	mg/L	0.100	ND	110	75-125	2.09	20	
Zinc, total	0.341	0.0050	mg/L	0.100	0.238	103	75-125	0.0540	20	
Post Spike (11D0403-PS1) Source: 11C1753-01 Prepared: 04/17/25 15:55 Analyzed: 06/16/25 19:49										
Antimony, total	0.0196		mg/L	0.0200	0.0002	97.0	80-120			
Arsenic, total	0.0064		mg/L	0.0200	0.0004	29.7	80-120			M2
Barium, total	0.0295		mg/L	0.0200	0.0093	101	80-120			
Beryllium, total	0.0170		mg/L	0.0200	0.0003	83.5	80-120			
Cadmium, total	0.0196		mg/L	0.0200	0.0001	97.2	80-120			
Chromium, total	0.0204		mg/L	0.0200	0.0008	97.7	80-120			M2
Cobalt, total	0.0564		mg/L	0.0200	0.0366	99.0	80-120			
Copper, total	0.0165		mg/L	0.0200	0.0020	72.2	80-120			M2
Lead, total	0.0188		mg/L	0.0200	0.00003	93.8	80-120			
Nickel, total	0.0676		mg/L	0.0200	0.0523	76.3	80-120			M2
Selenium, total	0.0064		mg/L	0.0200	0.0001	31.2	80-120			M2
Silver, total	0.0196		mg/L	0.0200	0.000006	98.0	80-120			
Thallium, total	0.0198		mg/L	0.0200	0.00005	98.8	80-120			
Vanadium, total	0.0209		mg/L	0.0200	0.0002	104	80-120			
Zinc, total	0.257		mg/L	0.0200	0.233	121	80-120			M1

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CERTIFICATE OF ANALYSIS

1IC1728

Definitions

B:	The target analyte was detected in the blank at or above the method acceptance criteria.
M1:	Matrix spike recovery is above acceptance limits.
M2:	Matrix spike recovery is below acceptance limits.
R1:	Duplicate RPD is outside acceptance criteria.
RL:	Reporting Limit
RPD:	Relative Percent Difference

Cooler Receipt Log

Cooler ID: Default Cooler Temp: 0.0°C

Cooler Inspection Checklist

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

Report Comments

The data and information on this, and other accompanying documents, represents only the sample(s) analyzed. This report is incomplete unless all pages indicated in the footnote are present and an authorized signature is included. **The services were provided under and subject to Microbac's standard terms and conditions which can be located and reviewed at <https://www.microbac.com/standard-terms-conditions>.**

Reviewed and Approved By:

Sue Thompson
Client Services Manager
06/19/25 16:00



CHAIN OF CUSTODY

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HLW Engineering
PM: Heather Murphy

Page 1 of 1
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SITE INFORMATION

Sampler: JGH
Project: Boone Landfill-New Regs
6007

REPORT TO

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

INVOICE TO

John Roosa
Boone County Sanitary Landfill
1268 224th Lane
Boone, IA 50036

SPECIAL INSTRUCTIONS

None

Turn Around Time

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

LAB USE ONLY

Work Order HC1728Temperature 0.0Turn-Cooler: No

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

Number	Sample Identification / Client ID	Matrix	Type	Date	Time	Number of Containers	Analyses	Lab Sample Number
-001	MW91-8	Aqueous	GRAB	3/24/25	14:39	7	Indfill-app1-voc-group Indfill-app1-metals-6020	01
-001	MW02-15A	Aqueous	GRAB	3/24/25	13:10	7	Indfill-app1-voc-group Indfill-app1-metals-6020	02
-001	MW98-28	Aqueous	GRAB	3/24/25	8:34	7	Indfill-app1-voc-group Indfill-app1-metals-6020	03
-001	MW02-30A	Aqueous	GRAB	3/24/25	12:57	7	Indfill-app1-voc-group Indfill-app1-metals-6020	04
-001	MW88-2	Aqueous	GRAB	3/24/25	11:40	7	Indfill-app1-voc-group Indfill-app1-metals-6020	05
-001	MW94-18	Aqueous	GRAB	3/24/25	8:50	7	Indfill-app1-voc-group Indfill-app1-metals-6020	06
-001	MW09-40	Aqueous	GRAB	3/24/25	9:01	7	Indfill-app1-voc-group Indfill-app1-metals-6020	07

Relinquished By J. Whipple Date/Time 3/25/25

Received By _____ Date/Time _____

Relinquished By _____ Date/Time _____

Received for Lab By Todd Whipple Date/Time 3/24/25-0940

Remarks:

Original - Lab Copy Yellow - Sampler Copy



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SITE INFORMATION

Sampler: LeH
Project: Boone Landfill-New Regs
6007

REPORT TO

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

INVOICE TO

John Roosa
Boone County Sanitary Landfill
1268 224th Lane
Boone, IA 50036

SPECIAL INSTRUCTIONS

None

Turn Around Time

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

LAB USE ONLY

Work Order 1IC1728Temperature 0.0

Turn-Cooler: No

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

Number	Sample Identification / Client ID	Matrix	Sample Type	Date	Time	Number of Containers	Analyses	Lab Sample Number
-001	MW91-10	Aqueous	GRAB	3/24/25	9:40	7	landfill-app1-voc-group landfill-app1-metals-6020	08
-001	MW96-21	Aqueous	GRAB	3/24/25	10:02	7	landfill-app1-voc-group landfill-app1-metals-6020	09
-001	MW96-24	Aqueous	GRAB	3/24/25	10:25	7	landfill-app1-voc-group landfill-app1-metals-6020	10
-001	MW88-3	Aqueous	GRAB	3/24/25	11:15	7	landfill-app1-voc-group landfill-app1-metals-6020	11
-001	MW96-23	Aqueous	GRAB	3/24/25	10:43	7	landfill-app1-voc-group landfill-app1-metals-6020	12
-001	MW21-43	Aqueous	GRAB	3/24/25	12:35	7	landfill-app1-voc-group landfill-app1-metals-6020	13
-001	GWD-1 No Sample	Aqueous	GRAB	---	---	---	landfill-app1-voc-group landfill-app1-metals-6020	---

Relinquished By S. Lofgren Date/Time 3/25/25

Relinquished By _____ Date/Time _____

Received By _____ Date/Time _____

Received for Lab By Todd Whipple Date/Time 3/24/25 0945

Remarks:

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CHAIN OF CUSTODY



HLW Engineering
PM: Heather Murphy

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SITE INFORMATION

Sampler: Left
Project: Boone Landfill-New Regs
6007

REPORT TO

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

INVOICE TO

John Roosa
Boone County Sanitary Landfill
1268 224th Lane
Boone, IA 50036

SPECIAL INSTRUCTIONS

None

Turn Around Time

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

LAB USE ONLY

Work Order 15C1728

Temperature 0.0

Turn-Cooler: No

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

Number	Sample Identification / Client ID	Matrix	Sample Type	Date	Time	Number of Containers	Analyses	Lab Sample Number
-001	GU-3	Aqueous	GRAB	3/24/25	12:09	7	landfill-app1-voc-group landfill-app1-metals-6020	14
-001	PEC-3	Aqueous	GRAB	3/24/25	12:21	6	landfill-app1-voc-group	15
-001	GU-4	Aqueous	GRAB	3/24/25	11:57	7	landfill-app1-voc-group landfill-app1-metals-6020	16
-001	SRAMP #1	Aqueous	GRAB	3/24/25	13:49	7	8260@dichlorodifluorom landfill-app1-voc-group ethane landfill-app1-metals-6020	17
-001	SRAMP #2	Aqueous	GRAB	3/24/25	10:59	7	8260@dichlorodifluorom landfill-app1-voc-group ethane	18
-001	MW98-25	Aqueous	GRAB	3/24/25	13:38	7	8260@dichlorodifluorom landfill-app1-voc-group ethane landfill-app1-metals-6020	19

Relinquished By J. Coyle Date/Time 3/25/25

Received By _____ Date/Time _____

Relinquished By _____ Date/Time _____

Received for Lab By _____ Date/Time _____

Remarks:

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SITE INFORMATION

Sampler: JCH
Project: Boone Landfill-New Regs
6007

REPORT TO

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

INVOICE TO

John Roosa
Boone County Sanitary Landfill
1268 224th Lane
Boone, IA 50036

SPECIAL INSTRUCTIONS

None

Turn Around Time

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

LAB USE ONLY

Work Order

Temperature

Turn-Cooler:

No

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

Number	Sample Identification / Client ID	Matrix	Sample Type	Date	Time	Number of Containers	Analyses	Lab Sample Number
-001	MW06-37	Aqueous	GRAB	3/24/25	14:24	7	landfill-app1-voc-group landfill-app1-metals-6020	20
-001	MW06-38	Aqueous	GRAB	3/24/25	14:14	7	landfill-app1-voc-group landfill-app1-metals-6020	21
-001	MW06-39	Aqueous	GRAB	3/24/25	14:04	7	landfill-app1-voc-group landfill-app1-metals-6020	22
-001	Field Duplicate	Aqueous	GRAB	3/24/25	9:40	7	landfill-app1-voc-group landfill-app1-metals-6020	23

Relinquished By

Date/Time

Relinquished By

Date/Time

Remarks:

Received By

Date/Time

Received for Lab By

Date/Time

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Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

1IG1035

Project Description

6007

For:

Todd Whipple

HLW Engineering

204 West Broad St

Story City, IA 50248

Heather Murphy

Customer Relationship Specialist

Friday, August 1, 2025

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

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

Microbac Laboratories, Inc.

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CERTIFICATE OF ANALYSIS

1IG1035

HLW Engineering

Todd Whipple
204 West Broad St
Story City, IA 50248

Project Name: 6007

Project / PO Number: N/A
Received: 07/09/2025
Reported: 08/01/2025

Case Narrative

Amended Report, July 30, 2025: Sample 1IG1035-01 was originally analyzed within the EPA recommended holding time at a dilution for cis-1,2-Dichloroethylene by EPA 8260D which elevated the reporting limit. At the request of the client the sample was re-analyzed outside of the EPA recommended holding time without the dilution, and that result is included in this report.

James Eggers
Quality Assurance Officer

Sample Summary Report

<u>Sample Name</u>	<u>Laboratory ID</u>	<u>Client Matrix</u>	<u>Sample Type</u>	<u>Sample Begin</u>	<u>Sample Taken</u>	<u>Lab Received</u>
PEC-3	1IG1035-01	Aqueous	GRAB		07/08/25 10:07	07/09/25 09:28



Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

1IG1035

Analytical Testing Parameters

Client Sample ID:	PEC-3	Collected By:	JGH
Sample Matrix:	Aqueous	Collection Date:	07/08/2025 10:07
Lab Sample ID:	1IG1035-01		

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 8260D	Method Notes: H2						
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L		07/28/25 0000	07/28/25 1432	RAF
Surrogate: Dibromofluoromethane	86.0	Limit: 57-128	% Rec	H2	07/28/25 0000	07/28/25 1432	RAF
Surrogate: 1,2-Dichloroethane-d4	76.9	Limit: 49-135	% Rec	H2	07/28/25 0000	07/28/25 1432	RAF



Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

1IG1035

Batch Log Summary

Method	Batch	Laboratory ID	Client / Source ID
EPA 8260D	1IG0575	1IG0575-BS1	
		1IG0575-BS1	
		1IG0575-BSD1	
		1IG0575-BSD1	
		1IG0575-BLK1	
		1IG0575-BLK1	
		1IG0575-MS1	1IG0795-01
		1IG0575-MS1	1IG0795-01
		1IG0575-MSD1	1IG0795-01
		1IG0575-MSD1	1IG0795-01
Method	Batch	Laboratory ID	Client / Source ID
EPA 8260D	1IG1602	1IG1602-BS1	
		1IG1602-BS1	
		1IG1602-BSD1	
		1IG1602-BSD1	
		1IG1602-BLK1	
		1IG1602-BLK1	
		1IG1035-01RE1	PEC-3
		1IG1035-01RE1	PEC-3
		1IG1602-MS1	1IG2300-03
		1IG1602-MS1	1IG2300-03
		1IG1602-MSD1	1IG2300-03
		1IG1602-MSD1	1IG2300-03

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 1IG0575 - EPA 5030B - EPA 8260D										
Blank (1IG0575-BLK1)				Prepared: 07/10/25 00:00 Analyzed: 07/10/25 13:15						
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L							
Surrogate: Dibromofluoromethane	37.5		ug/L	50.2		74.7	57-128			
Surrogate: 1,2-Dichloroethane-d4	34.8		ug/L	50.4		69.0	49-135			
Surrogate: Toluene-d8	50.1		ug/L	50.5		99.2	82-116			
Surrogate: 4-Bromofluorobenzene	45.1		ug/L	50.2		89.9	77-114			
LCS (1IG0575-BS1)				Prepared: 07/10/25 00:00 Analyzed: 07/10/25 10:25						
cis-1,2-Dichloroethylene	55.13	1.0	ug/L	50.0		110	70-132			
Surrogate: Dibromofluoromethane	46.9		ug/L	50.2		93.5	57-128			
Surrogate: 1,2-Dichloroethane-d4	48.9		ug/L	50.4		97.0	49-135			

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CERTIFICATE OF ANALYSIS

1IG1035

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1IG0575 - EPA 5030B - EPA 8260D										
LCS (1IG0575-BS1) Prepared: 07/10/25 00:00 Analyzed: 07/10/25 10:25										
Surrogate: Toluene-d8	48.2		ug/L	50.5		95.5	82-116			
Surrogate: 4-Bromofluorobenzene	49.5		ug/L	50.2		98.6	77-114			
LCS Dup (1IG0575-BSD1) Prepared: 07/10/25 00:00 Analyzed: 07/10/25 10:49										
cis-1,2-Dichloroethylene	52.68	1.0	ug/L	50.0		105	70-132	4.55	13	
Surrogate: Dibromofluoromethane	47.6		ug/L	50.2		94.9	57-128			
Surrogate: 1,2-Dichloroethane-d4	48.2		ug/L	50.4		95.6	49-135			
Surrogate: Toluene-d8	47.6		ug/L	50.5		94.4	82-116			
Surrogate: 4-Bromofluorobenzene	49.3		ug/L	50.2		98.3	77-114			
Matrix Spike (1IG0575-MS1) Source: 1IG0795-01 Prepared: 07/10/25 00:00 Analyzed: 07/10/25 16:53										
cis-1,2-Dichloroethylene	560.6	10.0	ug/L	500	ND	112	65-136			
Surrogate: Dibromofluoromethane	472		ug/L	502		94.1	57-128			
Surrogate: 1,2-Dichloroethane-d4	493		ug/L	504		97.8	49-135			
Surrogate: Toluene-d8	475		ug/L	505		94.0	82-116			
Surrogate: 4-Bromofluorobenzene	492		ug/L	502		98.0	77-114			
Matrix Spike Dup (1IG0575-MSD1) Source: 1IG0795-01 Prepared: 07/10/25 00:00 Analyzed: 07/10/25 17:18										
cis-1,2-Dichloroethylene	545.4	10.0	ug/L	500	ND	109	65-136	2.75	16	
Surrogate: Dibromofluoromethane	471		ug/L	502		93.8	57-128			
Surrogate: 1,2-Dichloroethane-d4	494		ug/L	504		98.2	49-135			
Surrogate: Toluene-d8	481		ug/L	505		95.3	82-116			
Surrogate: 4-Bromofluorobenzene	505		ug/L	502		101	77-114			
Batch 1IG1602 - EPA 5030B - EPA 8260D										
Blank (1IG1602-BLK1) Prepared: 07/28/25 00:00 Analyzed: 07/28/25 13:31										
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L							
Surrogate: Dibromofluoromethane	39.0		ug/L	50.2		77.7	57-128			
Surrogate: 1,2-Dichloroethane-d4	33.5		ug/L	50.4		66.6	49-135			
Surrogate: Toluene-d8	56.8		ug/L	50.5		112	82-116			
Surrogate: 4-Bromofluorobenzene	45.3		ug/L	50.2		90.3	77-114			
LCS (1IG1602-BS1) Prepared: 07/28/25 00:00 Analyzed: 07/28/25 11:54										
cis-1,2-Dichloroethylene	43.19	1.0	ug/L	50.4		85.8	70-132			
Surrogate: Dibromofluoromethane	48.1		ug/L	50.2		95.8	57-128			
Surrogate: 1,2-Dichloroethane-d4	45.0		ug/L	50.4		89.4	49-135			
Surrogate: Toluene-d8	48.5		ug/L	50.5		96.1	82-116			
Surrogate: 4-Bromofluorobenzene	47.3		ug/L	50.2		94.3	77-114			
LCS Dup (1IG1602-BSD1) Prepared: 07/28/25 00:00 Analyzed: 07/28/25 12:18										
cis-1,2-Dichloroethylene	42.02	1.0	ug/L	50.4		83.5	70-132	2.75	13	
Surrogate: Dibromofluoromethane	46.7		ug/L	50.2		93.0	57-128			
Surrogate: 1,2-Dichloroethane-d4	43.8		ug/L	50.4		87.1	49-135			

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Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

1IG1035

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1IG1602 - EPA 5030B - EPA 8260D										

LCS Dup (1IG1602-BSD1)

Prepared: 07/28/25 00:00 Analyzed: 07/28/25 12:18

Surrogate: Toluene-d8	49.2		ug/L	50.5		97.6	82-116			
Surrogate: 4-Bromofluorobenzene	47.5		ug/L	50.2		94.6	77-114			

Matrix Spike (1IG1602-MS1)

Source: 1IG2300-03

Prepared: 07/28/25 00:00 Analyzed: 07/28/25 16:33

cis-1,2-Dichloroethylene	491.8	10.0	ug/L	504	ND	97.7	65-136			

Surrogate: Dibromofluoromethane	556		ug/L	502		111	57-128			
Surrogate: 1,2-Dichloroethane-d4	566		ug/L	504		112	49-135			
Surrogate: Toluene-d8	494		ug/L	505		97.8	82-116			
Surrogate: 4-Bromofluorobenzene	494		ug/L	502		98.5	77-114			

Matrix Spike Dup (1IG1602-MSD1)

Source: 1IG2300-03

Prepared: 07/28/25 00:00 Analyzed: 07/28/25 16:57

cis-1,2-Dichloroethylene	490.4	10.0	ug/L	504	ND	97.4	65-136	0.285	16	

Surrogate: Dibromofluoromethane	567		ug/L	502		113	57-128			
Surrogate: 1,2-Dichloroethane-d4	505		ug/L	504		100	49-135			
Surrogate: Toluene-d8	494		ug/L	505		97.9	82-116			
Surrogate: 4-Bromofluorobenzene	440		ug/L	502		87.7	77-114			

Definitions

H2:	Initial analysis was within holding time. Reanalysis was done past holding time.
RL:	Reporting Limit
RPD:	Relative Percent Difference

Cooler Receipt Log

Cooler ID:	Default Cooler	Temp:	0.0°C

Cooler Inspection Checklist

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

Report Comments

The data and information on this, and other accompanying documents, represents only the sample(s) analyzed. This report is incomplete unless all pages indicated in the footnote are present and an authorized signature is included. The services were provided under and subject to Microbac's standard terms and conditions which can be located and reviewed at <https://www.microbac.com/standard-terms-conditions>.

Reviewed and Approved By:

Heather Murphy
Customer Relationship Specialist
heather.murphy@microbac.com
08/01/25 11:23

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Newton, IA 50208
Phone: 641-792-8451
Fax: 641-792-7989



HLW Engineering
PM: Heather Murphy

Paul
ity, KS 66105
3-321-7856
13-831-6778

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

PAGE _____ OF _____

Page 7 of 7

PRINT OR TYPE INFORMATION BELOW

SAMPLER: JGH

SITE NAME: Boone Co SWF

ADDRESS:

CITY/ST/ZIP:

PHONE:

REPORT TO:

NAME: TODD WHIPPLE
COMPANY NAME: HLW ENGINEERING
ADDRESS: PO Box 314
CITY/ST/ZIP: STORY CITY, IA 50248
PHONE: 515-733-4144
FAX: 515-733-4146

BILL TO:

BILL TO:
NAME: JOHN ROOSA
COMPANY NAME: BOONE CO SLF
ADDRESS: 1268 - 224th LN
CITY/ST/ZIP: BOONE, IA 50036
PHONE:

Keystone Quote No: _____
(If Applicable)

[illegible]

Relinquished by: (Signature)

1095

Relinquished by: (Signature)

Date _____

521815

Time

Received by: (Signature)

	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467

Received for Lab by: (Signature)

Date _____

Time

Date _____

Turn Around:

☒ Standard

 Rush

Contact Lab Prior to Submission

Remarks:

Date _____

7-2-25



Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

1111028

Project Description

6007

For:

Todd Whipple

HLW Engineering

204 West Broad St

Story City, IA 50248

Heather Murphy

Customer Relationship Specialist

Wednesday, November 12, 2025

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

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

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Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

1II1028

HLW Engineering

Todd Whipple
204 West Broad St
Story City, IA 50248

Project Name: 6007

Project / PO Number: N/A
Received: 09/11/2025
Reported: 11/12/2025

Case Narrative

Amended Report, November 11, 2025: The Dichlorodifluoromethane result for sample 1II1028-15 was originally missing from the original report due to a login error. The result is included in this report.

James Eggers
Quality Assurance Officer

Amended Report, October 1, 2025: Two Zinc results were originally reported for samples 1II1028-06, 12, and 13 due to a data entry error. Only one zinc result is included for each sample in this report.

James Eggers
Quality Assurance Officer

Sample Summary Report

<u>Sample Name</u>	<u>Laboratory ID</u>	<u>Client Matrix</u>	<u>Sample Type</u>	<u>Sample Begin</u>	<u>Sample Taken</u>	<u>Lab Received</u>
MW91-8	1II1028-01	Aqueous	GRAB		09/09/25 14:13	09/11/25 10:48
MW02-15A	1II1028-02	Aqueous	GRAB		09/09/25 13:37	09/11/25 10:48
MW98-28	1II1028-03	Aqueous	GRAB		09/09/25 09:05	09/11/25 10:48
MW02-30A	1II1028-04	Aqueous	GRAB		09/09/25 13:21	09/11/25 10:48
MW88-2	1II1028-05	Aqueous	GRAB		09/09/25 12:30	09/11/25 10:48
MW94-18	1II1028-06	Aqueous	GRAB		09/09/25 09:27	09/11/25 10:48
MW09-40	1II1028-07	Aqueous	GRAB		09/09/25 09:49	09/11/25 10:48
MW91-10	1II1028-08	Aqueous	GRAB		09/09/25 10:10	09/11/25 10:48
MW96-21R	1II1028-09	Aqueous	GRAB		09/09/25 10:38	09/11/25 10:48
MW96-24	1II1028-10	Aqueous	GRAB		09/09/25 11:11	09/11/25 10:48
MW88-3	1II1028-11	Aqueous	GRAB		09/09/25 12:05	09/11/25 10:48
MW96-23	1II1028-12	Aqueous	GRAB		09/09/25 11:29	09/11/25 10:48
MW21-43	1II1028-13	Aqueous	GRAB		09/09/25 11:42	09/11/25 10:48
GU-4	1II1028-14	Aqueous	GRAB		09/09/25 12:50	09/11/25 10:48
MW98-25	1II1028-15	Aqueous	GRAB		09/09/25 08:45	09/11/25 10:48
MW06-37	1II1028-16	Aqueous	GRAB		09/09/25 14:26	09/11/25 10:48
MW06-38	1II1028-17	Aqueous	GRAB		09/09/25 14:33	09/11/25 10:48
MW06-39	1II1028-18	Aqueous	GRAB		09/09/25 14:45	09/11/25 10:48
Field Duplicate	1II1028-19	Aqueous	GRAB		09/09/25 00:00	09/11/25 10:48



Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

1111028

Analytical Testing Parameters

Client Sample ID: MW91-8
Sample Matrix: Aqueous
Lab Sample ID: 1111028-01

Collected By: Whipple, Todd
Collection Date: 09/09/2025 14:13

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 8260D							
Chloromethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1154	RAF
Vinyl Chloride	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1154	RAF
Bromomethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1154	RAF
Chloroethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1154	RAF
Trichlorofluoromethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1154	RAF
1,1-Dichloroethylene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1154	RAF
Acetone	<10.0	10.0	ug/L		09/12/25 0000	09/12/25 1154	RAF
Methyl Iodide	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1154	RAF
Carbon Disulfide	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1154	RAF
Methylene Chloride	<5.0	5.0	ug/L		09/12/25 0000	09/12/25 1154	RAF
Acrylonitrile	<5.0	5.0	ug/L		09/12/25 0000	09/12/25 1154	RAF
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1154	RAF
1,1-Dichloroethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1154	RAF
Vinyl Acetate	<5.0	5.0	ug/L		09/12/25 0000	09/12/25 1154	RAF
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1154	RAF
2-Butanone (MEK)	<10.0	10.0	ug/L		09/12/25 0000	09/12/25 1154	RAF
Bromochloromethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1154	RAF
Chloroform	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1154	RAF
1,1,1-Trichloroethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1154	RAF
Carbon Tetrachloride	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1154	RAF
Benzene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1154	RAF
1,2-Dichloroethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1154	RAF
Trichloroethylene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1154	RAF
1,2-Dichloropropane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1154	RAF
Dibromomethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1154	RAF
Bromodichloromethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1154	RAF
cis-1,3-Dichloropropene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1154	RAF
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L		09/12/25 0000	09/12/25 1154	RAF
Toluene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1154	RAF
trans-1,3-Dichloropropene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1154	RAF
1,1,2-Trichloroethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1154	RAF
Tetrachloroethylene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1154	RAF
2-Hexanone (MBK)	<5.0	5.0	ug/L		09/12/25 0000	09/12/25 1154	RAF
Dibromochloromethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1154	RAF
1,2-Dibromoethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1154	RAF
Chlorobenzene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1154	RAF
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1154	RAF
Ethylbenzene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1154	RAF
Xylenes, total	<2.0	2.0	ug/L		09/12/25 0000	09/12/25 1154	RAF
Styrene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1154	RAF

Microbac Laboratories, Inc., Newton

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Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

111028

Client Sample ID: MW91-8
Sample Matrix: Aqueous
Lab Sample ID: 111028-01

Collected By: Whipple, Todd
Collection Date: 09/09/2025 14:13

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
Bromoform	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1154	RAF
1,2,3-Trichloropropane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1154	RAF
trans-1,4-Dichloro-2-butene	<5.0	5.0	ug/L		09/12/25 0000	09/12/25 1154	RAF
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1154	RAF
1,4-Dichlorobenzene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1154	RAF
1,2-Dichlorobenzene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1154	RAF
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L		09/12/25 0000	09/12/25 1154	RAF
Surrogate: Dibromofluoromethane	94.1	Limit: 75-136	% Rec		09/12/25 0000	09/12/25 1154	RAF
Surrogate: Dibromofluoromethane	94.1	Limit: 57-128	% Rec		09/12/25 0000	09/12/25 1154	RAF
Surrogate: 1,2-Dichloroethane-d4	92.3	Limit: 61-142	% Rec		09/12/25 0000	09/12/25 1154	RAF
Surrogate: 1,2-Dichloroethane-d4	92.3	Limit: 49-135	% Rec		09/12/25 0000	09/12/25 1154	RAF
Surrogate: Toluene-d8	99.4	Limit: 82-121	% Rec		09/12/25 0000	09/12/25 1154	RAF
Surrogate: Toluene-d8	99.4	Limit: 82-116	% Rec		09/12/25 0000	09/12/25 1154	RAF
Surrogate: 4-Bromofluorobenzene	92.2	Limit: 80-116	% Rec		09/12/25 0000	09/12/25 1154	RAF
Surrogate: 4-Bromofluorobenzene	92.2	Limit: 77-114	% Rec		09/12/25 0000	09/12/25 1154	RAF

Metals Total by ICPMS	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A							
Antimony	<0.0010	0.0010	mg/L		09/12/25 1653	09/15/25 2243	RVV
Arsenic	<0.0020	0.0020	mg/L		09/12/25 1653	09/15/25 2243	RVV
Barium	0.109	0.0010	mg/L		09/12/25 1653	09/15/25 2243	RVV
Beryllium	<0.0005	0.0005	mg/L		09/12/25 1653	09/15/25 2243	RVV
Cadmium	0.0002	0.0002	mg/L		09/12/25 1653	09/15/25 2243	RVV
Chromium	<0.0010	0.0010	mg/L		09/12/25 1653	09/15/25 2243	RVV
Cobalt	<0.0005	0.0005	mg/L		09/17/25 0726	09/17/25 1734	JAR
Copper	<0.0050	0.0050	mg/L		09/17/25 0726	09/17/25 1734	JAR
Lead	<0.0010	0.0010	mg/L		09/12/25 1653	09/15/25 2243	RVV
Nickel	<0.0050	0.0050	mg/L		09/12/25 1653	09/15/25 2243	RVV
Selenium	0.0033	0.0020	mg/L		09/12/25 1653	09/15/25 2243	RVV
Silver	<0.0050	0.0050	mg/L		09/12/25 1653	09/15/25 2243	RVV
Thallium	<0.0005	0.0005	mg/L		09/12/25 1653	09/15/25 2243	RVV
Vanadium	<0.0020	0.0020	mg/L		09/12/25 1653	09/15/25 2243	RVV
Zinc	0.0063	0.0050	mg/L		09/12/25 1653	09/15/25 2243	RVV

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CERTIFICATE OF ANALYSIS

111028

Client Sample ID: MW02-15A
Sample Matrix: Aqueous
Lab Sample ID: 111028-02

Collected By: Whipple, Todd
Collection Date: 09/09/2025 13:37

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 8260D							
Chloromethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1217	RAF
Vinyl Chloride	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1217	RAF
Bromomethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1217	RAF
Chloroethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1217	RAF
Trichlorofluoromethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1217	RAF
1,1-Dichloroethylene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1217	RAF
Acetone	<10.0	10.0	ug/L		09/12/25 0000	09/12/25 1217	RAF
Methyl Iodide	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1217	RAF
Carbon Disulfide	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1217	RAF
Methylene Chloride	<5.0	5.0	ug/L		09/12/25 0000	09/12/25 1217	RAF
Acrylonitrile	<5.0	5.0	ug/L		09/12/25 0000	09/12/25 1217	RAF
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1217	RAF
1,1-Dichloroethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1217	RAF
Vinyl Acetate	<5.0	5.0	ug/L		09/12/25 0000	09/12/25 1217	RAF
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1217	RAF
2-Butanone (MEK)	<10.0	10.0	ug/L		09/12/25 0000	09/12/25 1217	RAF
Bromochloromethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1217	RAF
Chloroform	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1217	RAF
1,1,1-Trichloroethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1217	RAF
Carbon Tetrachloride	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1217	RAF
Benzene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1217	RAF
1,2-Dichloroethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1217	RAF
Trichloroethylene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1217	RAF
1,2-Dichloropropane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1217	RAF
Dibromomethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1217	RAF
Bromodichloromethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1217	RAF
cis-1,3-Dichloropropene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1217	RAF
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L		09/12/25 0000	09/12/25 1217	RAF
Toluene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1217	RAF
trans-1,3-Dichloropropene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1217	RAF
1,1,2-Trichloroethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1217	RAF
Tetrachloroethylene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1217	RAF
2-Hexanone (MBK)	<5.0	5.0	ug/L		09/12/25 0000	09/12/25 1217	RAF
Dibromochloromethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1217	RAF
1,2-Dibromoethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1217	RAF
Chlorobenzene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1217	RAF
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1217	RAF
Ethylbenzene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1217	RAF
Xylenes, total	<2.0	2.0	ug/L		09/12/25 0000	09/12/25 1217	RAF
Styrene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1217	RAF
Bromoform	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1217	RAF
1,2,3-Trichloropropane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1217	RAF

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CERTIFICATE OF ANALYSIS

111028

Client Sample ID: MW02-15A
Sample Matrix: Aqueous
Lab Sample ID: 111028-02

Collected By: Whipple, Todd
Collection Date: 09/09/2025 13:37

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
trans-1,4-Dichloro-2-butene	<5.0	5.0	ug/L		09/12/25 0000	09/12/25 1217	RAF
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1217	RAF
1,4-Dichlorobenzene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1217	RAF
1,2-Dichlorobenzene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1217	RAF
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L		09/12/25 0000	09/12/25 1217	RAF
Surrogate: Dibromofluoromethane	97.4	Limit: 57-128	% Rec		09/12/25 0000	09/12/25 1217	RAF
Surrogate: Dibromofluoromethane	97.4	Limit: 75-136	% Rec		09/12/25 0000	09/12/25 1217	RAF
Surrogate: 1,2-Dichloroethane-d4	97.0	Limit: 49-135	% Rec		09/12/25 0000	09/12/25 1217	RAF
Surrogate: 1,2-Dichloroethane-d4	97.0	Limit: 61-142	% Rec		09/12/25 0000	09/12/25 1217	RAF
Surrogate: Toluene-d8	99.6	Limit: 82-121	% Rec		09/12/25 0000	09/12/25 1217	RAF
Surrogate: Toluene-d8	99.6	Limit: 82-116	% Rec		09/12/25 0000	09/12/25 1217	RAF
Surrogate: 4-Bromofluorobenzene	90.1	Limit: 77-114	% Rec		09/12/25 0000	09/12/25 1217	RAF
Surrogate: 4-Bromofluorobenzene	90.1	Limit: 80-116	% Rec		09/12/25 0000	09/12/25 1217	RAF

Metals Total by ICPMS	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A							
Antimony	<0.0010	0.0010	mg/L		09/12/25 1653	09/15/25 2253	RVV
Arsenic	<0.0020	0.0020	mg/L		09/12/25 1653	09/15/25 2253	RVV
Barium	0.0403	0.0010	mg/L		09/12/25 1653	09/15/25 2253	RVV
Beryllium	<0.0005	0.0005	mg/L		09/12/25 1653	09/15/25 2253	RVV
Cadmium	0.0003	0.0002	mg/L		09/12/25 1653	09/15/25 2253	RVV
Chromium	0.0030	0.0010	mg/L		09/12/25 1653	09/15/25 2253	RVV
Cobalt	0.0016	0.0005	mg/L		09/12/25 1653	09/15/25 2253	RVV
Copper	<0.0050	0.0050	mg/L		09/12/25 1653	09/15/25 2253	RVV
Lead	<0.0010	0.0010	mg/L		09/12/25 1653	09/15/25 2253	RVV
Nickel	0.0098	0.0050	mg/L		09/12/25 1653	09/15/25 2253	RVV
Selenium	<0.0020	0.0020	mg/L		09/12/25 1653	09/15/25 2253	RVV
Silver	<0.0050	0.0050	mg/L		09/12/25 1653	09/15/25 2253	RVV
Thallium	<0.0005	0.0005	mg/L		09/12/25 1653	09/15/25 2253	RVV
Vanadium	<0.0020	0.0020	mg/L		09/12/25 1653	09/15/25 2253	RVV
Zinc	0.0176	0.0050	mg/L		09/12/25 1653	09/15/25 2253	RVV

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CERTIFICATE OF ANALYSIS

111028

Client Sample ID: MW98-28
Sample Matrix: Aqueous
Lab Sample ID: 111028-03

Collected By: Whipple, Todd
Collection Date: 09/09/2025 9:05

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 8260D							
Chloromethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1240	RAF
Vinyl Chloride	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1240	RAF
Bromomethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1240	RAF
Chloroethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1240	RAF
Trichlorofluoromethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1240	RAF
1,1-Dichloroethylene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1240	RAF
Acetone	<10.0	10.0	ug/L		09/12/25 0000	09/12/25 1240	RAF
Methyl Iodide	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1240	RAF
Carbon Disulfide	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1240	RAF
Methylene Chloride	<5.0	5.0	ug/L		09/12/25 0000	09/12/25 1240	RAF
Acrylonitrile	<5.0	5.0	ug/L		09/12/25 0000	09/12/25 1240	RAF
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1240	RAF
1,1-Dichloroethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1240	RAF
Vinyl Acetate	<5.0	5.0	ug/L		09/12/25 0000	09/12/25 1240	RAF
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1240	RAF
2-Butanone (MEK)	<10.0	10.0	ug/L		09/12/25 0000	09/12/25 1240	RAF
Bromochloromethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1240	RAF
Chloroform	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1240	RAF
1,1,1-Trichloroethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1240	RAF
Carbon Tetrachloride	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1240	RAF
Benzene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1240	RAF
1,2-Dichloroethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1240	RAF
Trichloroethylene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1240	RAF
1,2-Dichloropropane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1240	RAF
Dibromomethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1240	RAF
Bromodichloromethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1240	RAF
cis-1,3-Dichloropropene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1240	RAF
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L		09/12/25 0000	09/12/25 1240	RAF
Toluene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1240	RAF
trans-1,3-Dichloropropene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1240	RAF
1,1,2-Trichloroethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1240	RAF
Tetrachloroethylene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1240	RAF
2-Hexanone (MBK)	<5.0	5.0	ug/L		09/12/25 0000	09/12/25 1240	RAF
Dibromochloromethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1240	RAF
1,2-Dibromoethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1240	RAF
Chlorobenzene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1240	RAF
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1240	RAF
Ethylbenzene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1240	RAF
Xylenes, total	<2.0	2.0	ug/L		09/12/25 0000	09/12/25 1240	RAF
Styrene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1240	RAF
Bromoform	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1240	RAF
1,2,3-Trichloropropane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1240	RAF

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CERTIFICATE OF ANALYSIS

111028

Client Sample ID: MW98-28
Sample Matrix: Aqueous
Lab Sample ID: 111028-03

Collected By: Whipple, Todd
Collection Date: 09/09/2025 9:05

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
trans-1,4-Dichloro-2-butene	<5.0	5.0	ug/L		09/12/25 0000	09/12/25 1240	RAF
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1240	RAF
1,4-Dichlorobenzene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1240	RAF
1,2-Dichlorobenzene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1240	RAF
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L		09/12/25 0000	09/12/25 1240	RAF
Surrogate: Dibromofluoromethane	95.7	Limit: 75-136	% Rec		09/12/25 0000	09/12/25 1240	RAF
Surrogate: Dibromofluoromethane	95.7	Limit: 57-128	% Rec		09/12/25 0000	09/12/25 1240	RAF
Surrogate: 1,2-Dichloroethane-d4	92.1	Limit: 49-135	% Rec		09/12/25 0000	09/12/25 1240	RAF
Surrogate: 1,2-Dichloroethane-d4	92.1	Limit: 61-142	% Rec		09/12/25 0000	09/12/25 1240	RAF
Surrogate: Toluene-d8	99.9	Limit: 82-121	% Rec		09/12/25 0000	09/12/25 1240	RAF
Surrogate: Toluene-d8	99.9	Limit: 82-116	% Rec		09/12/25 0000	09/12/25 1240	RAF
Surrogate: 4-Bromofluorobenzene	91.5	Limit: 77-114	% Rec		09/12/25 0000	09/12/25 1240	RAF
Surrogate: 4-Bromofluorobenzene	91.5	Limit: 80-116	% Rec		09/12/25 0000	09/12/25 1240	RAF

Metals Total by ICPMS	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A							
Antimony	<0.0010	0.0010	mg/L		09/12/25 1653	09/15/25 2255	RVV
Arsenic	<0.0020	0.0020	mg/L		09/12/25 1653	09/15/25 2255	RVV
Barium	0.237	0.0010	mg/L		09/12/25 1653	09/15/25 2255	RVV
Beryllium	<0.0005	0.0005	mg/L		09/12/25 1653	09/15/25 2255	RVV
Cadmium	<0.0002	0.0002	mg/L		09/12/25 1653	09/15/25 2255	RVV
Chromium	0.0028	0.0010	mg/L		09/12/25 1653	09/15/25 2255	RVV
Cobalt	0.0011	0.0005	mg/L		09/12/25 1653	09/15/25 2255	RVV
Copper	<0.0050	0.0050	mg/L		09/12/25 1653	09/15/25 2255	RVV
Lead	<0.0010	0.0010	mg/L		09/12/25 1653	09/15/25 2255	RVV
Nickel	0.0082	0.0050	mg/L		09/12/25 1653	09/15/25 2255	RVV
Selenium	<0.0020	0.0020	mg/L		09/12/25 1653	09/15/25 2255	RVV
Silver	<0.0050	0.0050	mg/L		09/12/25 1653	09/15/25 2255	RVV
Thallium	<0.0005	0.0005	mg/L		09/12/25 1653	09/15/25 2255	RVV
Vanadium	<0.0020	0.0020	mg/L		09/12/25 1653	09/15/25 2255	RVV
Zinc	0.0063	0.0050	mg/L		09/12/25 1653	09/15/25 2255	RVV

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CERTIFICATE OF ANALYSIS

111028

Client Sample ID: MW02-30A
Sample Matrix: Aqueous
Lab Sample ID: 111028-04

Collected By: Whipple, Todd
Collection Date: 09/09/2025 13:21

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 8260D							
Chloromethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1302	RAF
Vinyl Chloride	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1302	RAF
Bromomethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1302	RAF
Chloroethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1302	RAF
Trichlorofluoromethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1302	RAF
1,1-Dichloroethylene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1302	RAF
Acetone	<10.0	10.0	ug/L		09/12/25 0000	09/12/25 1302	RAF
Methyl Iodide	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1302	RAF
Carbon Disulfide	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1302	RAF
Methylene Chloride	<5.0	5.0	ug/L		09/12/25 0000	09/12/25 1302	RAF
Acrylonitrile	<5.0	5.0	ug/L		09/12/25 0000	09/12/25 1302	RAF
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1302	RAF
1,1-Dichloroethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1302	RAF
Vinyl Acetate	<5.0	5.0	ug/L		09/12/25 0000	09/12/25 1302	RAF
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1302	RAF
2-Butanone (MEK)	<10.0	10.0	ug/L		09/12/25 0000	09/12/25 1302	RAF
Bromochloromethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1302	RAF
Chloroform	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1302	RAF
1,1,1-Trichloroethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1302	RAF
Carbon Tetrachloride	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1302	RAF
Benzene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1302	RAF
1,2-Dichloroethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1302	RAF
Trichloroethylene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1302	RAF
1,2-Dichloropropane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1302	RAF
Dibromomethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1302	RAF
Bromodichloromethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1302	RAF
cis-1,3-Dichloropropene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1302	RAF
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L		09/12/25 0000	09/12/25 1302	RAF
Toluene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1302	RAF
trans-1,3-Dichloropropene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1302	RAF
1,1,2-Trichloroethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1302	RAF
Tetrachloroethylene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1302	RAF
2-Hexanone (MBK)	<5.0	5.0	ug/L		09/12/25 0000	09/12/25 1302	RAF
Dibromochloromethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1302	RAF
1,2-Dibromoethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1302	RAF
Chlorobenzene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1302	RAF
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1302	RAF
Ethylbenzene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1302	RAF
Xylenes, total	<2.0	2.0	ug/L		09/12/25 0000	09/12/25 1302	RAF
Styrene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1302	RAF
Bromoform	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1302	RAF
1,2,3-Trichloropropane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1302	RAF

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CERTIFICATE OF ANALYSIS

111028

Client Sample ID: MW02-30A
Sample Matrix: Aqueous
Lab Sample ID: 111028-04

Collected By: Whipple, Todd
Collection Date: 09/09/2025 13:21

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
trans-1,4-Dichloro-2-butene	<5.0	5.0	ug/L		09/12/25 0000	09/12/25 1302	RAF
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1302	RAF
1,4-Dichlorobenzene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1302	RAF
1,2-Dichlorobenzene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1302	RAF
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L		09/12/25 0000	09/12/25 1302	RAF
Surrogate: Dibromofluoromethane	94.4	Limit: 75-136	% Rec		09/12/25 0000	09/12/25 1302	RAF
Surrogate: Dibromofluoromethane	94.4	Limit: 57-128	% Rec		09/12/25 0000	09/12/25 1302	RAF
Surrogate: 1,2-Dichloroethane-d4	97.3	Limit: 49-135	% Rec		09/12/25 0000	09/12/25 1302	RAF
Surrogate: 1,2-Dichloroethane-d4	97.3	Limit: 61-142	% Rec		09/12/25 0000	09/12/25 1302	RAF
Surrogate: Toluene-d8	98.6	Limit: 82-121	% Rec		09/12/25 0000	09/12/25 1302	RAF
Surrogate: Toluene-d8	98.6	Limit: 82-116	% Rec		09/12/25 0000	09/12/25 1302	RAF
Surrogate: 4-Bromofluorobenzene	89.5	Limit: 77-114	% Rec		09/12/25 0000	09/12/25 1302	RAF
Surrogate: 4-Bromofluorobenzene	89.5	Limit: 80-116	% Rec		09/12/25 0000	09/12/25 1302	RAF

Metals Total by ICPMS	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A							
Antimony	<0.0010	0.0010	mg/L		09/12/25 1653	09/15/25 2258	RVV
Arsenic	0.0430	0.0020	mg/L		09/12/25 1653	09/15/25 2258	RVV
Barium	0.0891	0.0010	mg/L		09/12/25 1653	09/15/25 2258	RVV
Beryllium	<0.0005	0.0005	mg/L		09/12/25 1653	09/15/25 2258	RVV
Cadmium	<0.0002	0.0002	mg/L		09/12/25 1653	09/15/25 2258	RVV
Chromium	<0.0010	0.0010	mg/L		09/12/25 1653	09/15/25 2258	RVV
Cobalt	<0.0005	0.0005	mg/L		09/12/25 1653	09/15/25 2258	RVV
Copper	<0.0050	0.0050	mg/L		09/12/25 1653	09/15/25 2258	RVV
Lead	<0.0010	0.0010	mg/L		09/12/25 1653	09/15/25 2258	RVV
Nickel	<0.0050	0.0050	mg/L		09/12/25 1653	09/15/25 2258	RVV
Selenium	<0.0020	0.0020	mg/L		09/12/25 1653	09/15/25 2258	RVV
Silver	<0.0050	0.0050	mg/L		09/12/25 1653	09/15/25 2258	RVV
Thallium	<0.0005	0.0005	mg/L		09/12/25 1653	09/15/25 2258	RVV
Vanadium	<0.0020	0.0020	mg/L		09/12/25 1653	09/15/25 2258	RVV
Zinc	0.0063	0.0050	mg/L		09/12/25 1653	09/15/25 2258	RVV

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CERTIFICATE OF ANALYSIS

111028

Client Sample ID: MW88-2
Sample Matrix: Aqueous
Lab Sample ID: 111028-05

Collected By: Whipple, Todd
Collection Date: 09/09/2025 12:30

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 8260D							
Chloromethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1325	RAF
Vinyl Chloride	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1325	RAF
Bromomethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1325	RAF
Chloroethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1325	RAF
Trichlorofluoromethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1325	RAF
1,1-Dichloroethylene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1325	RAF
Acetone	<10.0	10.0	ug/L		09/12/25 0000	09/12/25 1325	RAF
Methyl Iodide	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1325	RAF
Carbon Disulfide	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1325	RAF
Methylene Chloride	<5.0	5.0	ug/L		09/12/25 0000	09/12/25 1325	RAF
Acrylonitrile	<5.0	5.0	ug/L		09/12/25 0000	09/12/25 1325	RAF
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1325	RAF
1,1-Dichloroethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1325	RAF
Vinyl Acetate	<5.0	5.0	ug/L		09/12/25 0000	09/12/25 1325	RAF
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1325	RAF
2-Butanone (MEK)	<10.0	10.0	ug/L		09/12/25 0000	09/12/25 1325	RAF
Bromochloromethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1325	RAF
Chloroform	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1325	RAF
1,1,1-Trichloroethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1325	RAF
Carbon Tetrachloride	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1325	RAF
Benzene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1325	RAF
1,2-Dichloroethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1325	RAF
Trichloroethylene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1325	RAF
1,2-Dichloropropane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1325	RAF
Dibromomethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1325	RAF
Bromodichloromethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1325	RAF
cis-1,3-Dichloropropene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1325	RAF
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L		09/12/25 0000	09/12/25 1325	RAF
Toluene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1325	RAF
trans-1,3-Dichloropropene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1325	RAF
1,1,2-Trichloroethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1325	RAF
Tetrachloroethylene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1325	RAF
2-Hexanone (MBK)	<5.0	5.0	ug/L		09/12/25 0000	09/12/25 1325	RAF
Dibromochloromethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1325	RAF
1,2-Dibromoethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1325	RAF
Chlorobenzene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1325	RAF
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1325	RAF
Ethylbenzene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1325	RAF
Xylenes, total	<2.0	2.0	ug/L		09/12/25 0000	09/12/25 1325	RAF
Styrene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1325	RAF
Bromoform	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1325	RAF
1,2,3-Trichloropropane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1325	RAF

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1111028

Client Sample ID: MW88-2
Sample Matrix: Aqueous
Lab Sample ID: 1111028-05

Collected By: Whipple, Todd
Collection Date: 09/09/2025 12:30

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
trans-1,4-Dichloro-2-butene	<5.0	5.0	ug/L		09/12/25 0000	09/12/25 1325	RAF
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1325	RAF
1,4-Dichlorobenzene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1325	RAF
1,2-Dichlorobenzene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1325	RAF
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L		09/12/25 0000	09/12/25 1325	RAF
Surrogate: Dibromofluoromethane	98.0	Limit: 75-136	% Rec		09/12/25 0000	09/12/25 1325	RAF
Surrogate: Dibromofluoromethane	98.0	Limit: 57-128	% Rec		09/12/25 0000	09/12/25 1325	RAF
Surrogate: 1,2-Dichloroethane-d4	95.3	Limit: 49-135	% Rec		09/12/25 0000	09/12/25 1325	RAF
Surrogate: 1,2-Dichloroethane-d4	95.3	Limit: 61-142	% Rec		09/12/25 0000	09/12/25 1325	RAF
Surrogate: Toluene-d8	97.6	Limit: 82-121	% Rec		09/12/25 0000	09/12/25 1325	RAF
Surrogate: Toluene-d8	97.6	Limit: 82-116	% Rec		09/12/25 0000	09/12/25 1325	RAF
Surrogate: 4-Bromofluorobenzene	89.7	Limit: 77-114	% Rec		09/12/25 0000	09/12/25 1325	RAF
Surrogate: 4-Bromofluorobenzene	89.7	Limit: 80-116	% Rec		09/12/25 0000	09/12/25 1325	RAF

Metals Total by ICPMS	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A							
Antimony	<0.0010	0.0010	mg/L		09/12/25 1653	09/15/25 2300	RVV
Arsenic	<0.0020	0.0020	mg/L		09/12/25 1653	09/15/25 2300	RVV
Barium	0.169	0.0010	mg/L		09/12/25 1653	09/15/25 2300	RVV
Beryllium	<0.0005	0.0005	mg/L		09/12/25 1653	09/15/25 2300	RVV
Cadmium	0.0002	0.0002	mg/L		09/12/25 1653	09/15/25 2300	RVV
Chromium	0.0022	0.0010	mg/L		09/12/25 1653	09/15/25 2300	RVV
Cobalt	0.0011	0.0005	mg/L		09/12/25 1653	09/15/25 2300	RVV
Copper	0.0145	0.0050	mg/L		09/12/25 1653	09/15/25 2300	RVV
Lead	<0.0010	0.0010	mg/L		09/12/25 1653	09/15/25 2300	RVV
Nickel	0.0069	0.0050	mg/L		09/12/25 1653	09/15/25 2300	RVV
Selenium	<0.0020	0.0020	mg/L		09/12/25 1653	09/15/25 2300	RVV
Silver	<0.0050	0.0050	mg/L		09/12/25 1653	09/15/25 2300	RVV
Thallium	<0.0005	0.0005	mg/L		09/12/25 1653	09/15/25 2300	RVV
Vanadium	<0.0020	0.0020	mg/L		09/12/25 1653	09/15/25 2300	RVV
Zinc	0.0120	0.0050	mg/L		09/12/25 1653	09/15/25 2300	RVV

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CERTIFICATE OF ANALYSIS

111028

Client Sample ID: MW94-18
Sample Matrix: Aqueous
Lab Sample ID: 111028-06

Collected By: Whipple, Todd
Collection Date: 09/09/2025 9:27

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 8260D							
Chloromethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1348	RAF
Vinyl Chloride	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1348	RAF
Bromomethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1348	RAF
Chloroethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1348	RAF
Trichlorofluoromethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1348	RAF
1,1-Dichloroethylene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1348	RAF
Acetone	<10.0	10.0	ug/L		09/12/25 0000	09/12/25 1348	RAF
Methyl Iodide	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1348	RAF
Carbon Disulfide	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1348	RAF
Methylene Chloride	<5.0	5.0	ug/L		09/12/25 0000	09/12/25 1348	RAF
Acrylonitrile	<5.0	5.0	ug/L		09/12/25 0000	09/12/25 1348	RAF
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1348	RAF
1,1-Dichloroethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1348	RAF
Vinyl Acetate	<5.0	5.0	ug/L		09/12/25 0000	09/12/25 1348	RAF
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1348	RAF
2-Butanone (MEK)	<10.0	10.0	ug/L		09/12/25 0000	09/12/25 1348	RAF
Bromochloromethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1348	RAF
Chloroform	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1348	RAF
1,1,1-Trichloroethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1348	RAF
Carbon Tetrachloride	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1348	RAF
Benzene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1348	RAF
1,2-Dichloroethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1348	RAF
Trichloroethylene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1348	RAF
1,2-Dichloropropane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1348	RAF
Dibromomethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1348	RAF
Bromodichloromethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1348	RAF
cis-1,3-Dichloropropene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1348	RAF
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L		09/12/25 0000	09/12/25 1348	RAF
Toluene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1348	RAF
trans-1,3-Dichloropropene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1348	RAF
1,1,2-Trichloroethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1348	RAF
Tetrachloroethylene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1348	RAF
2-Hexanone (MBK)	<5.0	5.0	ug/L		09/12/25 0000	09/12/25 1348	RAF
Dibromochloromethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1348	RAF
1,2-Dibromoethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1348	RAF
Chlorobenzene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1348	RAF
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1348	RAF
Ethylbenzene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1348	RAF
Xylenes, total	<2.0	2.0	ug/L		09/12/25 0000	09/12/25 1348	RAF
Styrene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1348	RAF
Bromoform	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1348	RAF
1,2,3-Trichloropropane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1348	RAF

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CERTIFICATE OF ANALYSIS

111028

Client Sample ID: MW94-18
Sample Matrix: Aqueous
Lab Sample ID: 111028-06

Collected By: Whipple, Todd
Collection Date: 09/09/2025 9:27

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
trans-1,4-Dichloro-2-butene	<5.0	5.0	ug/L		09/12/25 0000	09/12/25 1348	RAF
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1348	RAF
1,4-Dichlorobenzene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1348	RAF
1,2-Dichlorobenzene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1348	RAF
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L		09/12/25 0000	09/12/25 1348	RAF
Surrogate: Dibromofluoromethane	95.4	Limit: 75-136	% Rec		09/12/25 0000	09/12/25 1348	RAF
Surrogate: Dibromofluoromethane	95.4	Limit: 57-128	% Rec		09/12/25 0000	09/12/25 1348	RAF
Surrogate: 1,2-Dichloroethane-d4	94.8	Limit: 61-142	% Rec		09/12/25 0000	09/12/25 1348	RAF
Surrogate: 1,2-Dichloroethane-d4	94.8	Limit: 49-135	% Rec		09/12/25 0000	09/12/25 1348	RAF
Surrogate: Toluene-d8	101	Limit: 82-121	% Rec		09/12/25 0000	09/12/25 1348	RAF
Surrogate: Toluene-d8	101	Limit: 82-116	% Rec		09/12/25 0000	09/12/25 1348	RAF
Surrogate: 4-Bromofluorobenzene	88.9	Limit: 80-116	% Rec		09/12/25 0000	09/12/25 1348	RAF
Surrogate: 4-Bromofluorobenzene	88.9	Limit: 77-114	% Rec		09/12/25 0000	09/12/25 1348	RAF

Metals Total by ICPMS	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A							
Antimony	<0.0010	0.0010	mg/L		09/12/25 1653	09/15/25 2303	RVV
Arsenic	<0.0020	0.0020	mg/L		09/12/25 1653	09/15/25 2303	RVV
Barium	0.0315	0.0010	mg/L		09/12/25 1653	09/15/25 2303	RVV
Beryllium	<0.0005	0.0005	mg/L		09/12/25 1653	09/15/25 2303	RVV
Cadmium	0.0018	0.0002	mg/L		09/12/25 1653	09/15/25 2303	RVV
Chromium	0.0011	0.0010	mg/L		09/12/25 1653	09/15/25 2303	RVV
Cobalt	0.0007	0.0005	mg/L		09/12/25 1653	09/15/25 2303	RVV
Copper	0.0092	0.0050	mg/L		09/12/25 1653	09/15/25 2303	RVV
Lead	<0.0010	0.0010	mg/L		09/12/25 1653	09/15/25 2303	RVV
Nickel	0.0156	0.0050	mg/L		09/12/25 1653	09/15/25 2303	RVV
Selenium	0.0024	0.0020	mg/L		09/12/25 1653	09/15/25 2303	RVV
Silver	<0.0050	0.0050	mg/L		09/12/25 1653	09/15/25 2303	RVV
Thallium	<0.0005	0.0005	mg/L		09/12/25 1653	09/15/25 2303	RVV
Vanadium	<0.0020	0.0020	mg/L		09/12/25 1653	09/15/25 2303	RVV
Zinc	0.0167	0.0050	mg/L		09/12/25 1653	09/15/25 2303	RVV

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Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

111028

Client Sample ID: MW09-40
Sample Matrix: Aqueous
Lab Sample ID: 111028-07

Collected By: Whipple, Todd
Collection Date: 09/09/2025 9:49

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 8260D							
Chloromethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1411	RAF
Vinyl Chloride	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1411	RAF
Bromomethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1411	RAF
Chloroethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1411	RAF
Trichlorofluoromethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1411	RAF
1,1-Dichloroethylene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1411	RAF
Acetone	<10.0	10.0	ug/L		09/12/25 0000	09/12/25 1411	RAF
Methyl Iodide	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1411	RAF
Carbon Disulfide	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1411	RAF
Methylene Chloride	<5.0	5.0	ug/L		09/12/25 0000	09/12/25 1411	RAF
Acrylonitrile	<5.0	5.0	ug/L		09/12/25 0000	09/12/25 1411	RAF
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1411	RAF
1,1-Dichloroethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1411	RAF
Vinyl Acetate	<5.0	5.0	ug/L		09/12/25 0000	09/12/25 1411	RAF
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1411	RAF
2-Butanone (MEK)	<10.0	10.0	ug/L		09/12/25 0000	09/12/25 1411	RAF
Bromochloromethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1411	RAF
Chloroform	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1411	RAF
1,1,1-Trichloroethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1411	RAF
Carbon Tetrachloride	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1411	RAF
Benzene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1411	RAF
1,2-Dichloroethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1411	RAF
Trichloroethylene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1411	RAF
1,2-Dichloropropane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1411	RAF
Dibromomethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1411	RAF
Bromodichloromethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1411	RAF
cis-1,3-Dichloropropene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1411	RAF
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L		09/12/25 0000	09/12/25 1411	RAF
Toluene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1411	RAF
trans-1,3-Dichloropropene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1411	RAF
1,1,2-Trichloroethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1411	RAF
Tetrachloroethylene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1411	RAF
2-Hexanone (MBK)	<5.0	5.0	ug/L		09/12/25 0000	09/12/25 1411	RAF
Dibromochloromethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1411	RAF
1,2-Dibromoethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1411	RAF
Chlorobenzene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1411	RAF
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1411	RAF
Ethylbenzene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1411	RAF
Xylenes, total	<2.0	2.0	ug/L		09/12/25 0000	09/12/25 1411	RAF
Styrene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1411	RAF
Bromoform	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1411	RAF
1,2,3-Trichloropropane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1411	RAF

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CERTIFICATE OF ANALYSIS

111028

Client Sample ID: MW09-40
Sample Matrix: Aqueous
Lab Sample ID: 111028-07

Collected By: Whipple, Todd
Collection Date: 09/09/2025 9:49

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
trans-1,4-Dichloro-2-butene	<5.0	5.0	ug/L		09/12/25 0000	09/12/25 1411	RAF
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1411	RAF
1,4-Dichlorobenzene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1411	RAF
1,2-Dichlorobenzene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1411	RAF
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L		09/12/25 0000	09/12/25 1411	RAF
Surrogate: Dibromofluoromethane	93.4	Limit: 57-128	% Rec		09/12/25 0000	09/12/25 1411	RAF
Surrogate: Dibromofluoromethane	93.4	Limit: 75-136	% Rec		09/12/25 0000	09/12/25 1411	RAF
Surrogate: 1,2-Dichloroethane-d4	96.9	Limit: 49-135	% Rec		09/12/25 0000	09/12/25 1411	RAF
Surrogate: 1,2-Dichloroethane-d4	96.9	Limit: 61-142	% Rec		09/12/25 0000	09/12/25 1411	RAF
Surrogate: Toluene-d8	99.4	Limit: 82-121	% Rec		09/12/25 0000	09/12/25 1411	RAF
Surrogate: Toluene-d8	99.4	Limit: 82-116	% Rec		09/12/25 0000	09/12/25 1411	RAF
Surrogate: 4-Bromofluorobenzene	92.4	Limit: 77-114	% Rec		09/12/25 0000	09/12/25 1411	RAF
Surrogate: 4-Bromofluorobenzene	92.4	Limit: 80-116	% Rec		09/12/25 0000	09/12/25 1411	RAF

Metals Total by ICPMS	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A							
Antimony	0.0019	0.0010	mg/L		09/12/25 1653	09/15/25 2306	RVV
Arsenic	0.0020	0.0020	mg/L		09/12/25 1653	09/15/25 2306	RVV
Barium	0.0224	0.0010	mg/L		09/12/25 1653	09/15/25 2306	RVV
Beryllium	<0.0005	0.0005	mg/L		09/12/25 1653	09/15/25 2306	RVV
Cadmium	<0.0002	0.0002	mg/L		09/12/25 1653	09/15/25 2306	RVV
Chromium	0.0011	0.0010	mg/L		09/12/25 1653	09/15/25 2306	RVV
Cobalt	0.0009	0.0005	mg/L		09/12/25 1653	09/15/25 2306	RVV
Copper	<0.0050	0.0050	mg/L		09/12/25 1653	09/15/25 2306	RVV
Lead	<0.0010	0.0010	mg/L		09/12/25 1653	09/15/25 2306	RVV
Nickel	<0.0050	0.0050	mg/L		09/12/25 1653	09/15/25 2306	RVV
Selenium	0.0036	0.0020	mg/L		09/12/25 1653	09/15/25 2306	RVV
Silver	<0.0050	0.0050	mg/L		09/12/25 1653	09/15/25 2306	RVV
Thallium	<0.0005	0.0005	mg/L		09/12/25 1653	09/15/25 2306	RVV
Vanadium	<0.0020	0.0020	mg/L		09/12/25 1653	09/15/25 2306	RVV
Zinc	0.0092	0.0050	mg/L		09/12/25 1653	09/15/25 2306	RVV

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CERTIFICATE OF ANALYSIS

111028

Client Sample ID: MW91-10
Sample Matrix: Aqueous
Lab Sample ID: 111028-08

Collected By: Whipple, Todd
Collection Date: 09/09/2025 10:10

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 8260D							
Chloromethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1434	RAF
Vinyl Chloride	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1434	RAF
Bromomethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1434	RAF
Chloroethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1434	RAF
Trichlorofluoromethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1434	RAF
1,1-Dichloroethylene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1434	RAF
Acetone	<10.0	10.0	ug/L		09/12/25 0000	09/12/25 1434	RAF
Methyl Iodide	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1434	RAF
Carbon Disulfide	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1434	RAF
Methylene Chloride	<5.0	5.0	ug/L		09/12/25 0000	09/12/25 1434	RAF
Acrylonitrile	<5.0	5.0	ug/L		09/12/25 0000	09/12/25 1434	RAF
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1434	RAF
1,1-Dichloroethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1434	RAF
Vinyl Acetate	<5.0	5.0	ug/L		09/12/25 0000	09/12/25 1434	RAF
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1434	RAF
2-Butanone (MEK)	<10.0	10.0	ug/L		09/12/25 0000	09/12/25 1434	RAF
Bromochloromethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1434	RAF
Chloroform	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1434	RAF
1,1,1-Trichloroethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1434	RAF
Carbon Tetrachloride	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1434	RAF
Benzene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1434	RAF
1,2-Dichloroethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1434	RAF
Trichloroethylene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1434	RAF
1,2-Dichloropropane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1434	RAF
Dibromomethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1434	RAF
Bromodichloromethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1434	RAF
cis-1,3-Dichloropropene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1434	RAF
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L		09/12/25 0000	09/12/25 1434	RAF
Toluene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1434	RAF
trans-1,3-Dichloropropene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1434	RAF
1,1,2-Trichloroethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1434	RAF
Tetrachloroethylene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1434	RAF
2-Hexanone (MBK)	<5.0	5.0	ug/L		09/12/25 0000	09/12/25 1434	RAF
Dibromochloromethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1434	RAF
1,2-Dibromoethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1434	RAF
Chlorobenzene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1434	RAF
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1434	RAF
Ethylbenzene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1434	RAF
Xylenes, total	<2.0	2.0	ug/L		09/12/25 0000	09/12/25 1434	RAF
Styrene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1434	RAF
Bromoform	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1434	RAF
1,2,3-Trichloropropane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1434	RAF

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CERTIFICATE OF ANALYSIS

111028

Client Sample ID: MW91-10
Sample Matrix: Aqueous
Lab Sample ID: 111028-08

Collected By: Whipple, Todd
Collection Date: 09/09/2025 10:10

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
trans-1,4-Dichloro-2-butene	<5.0	5.0	ug/L		09/12/25 0000	09/12/25 1434	RAF
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1434	RAF
1,4-Dichlorobenzene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1434	RAF
1,2-Dichlorobenzene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1434	RAF
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L		09/12/25 0000	09/12/25 1434	RAF
Surrogate: Dibromofluoromethane	95.2	Limit: 57-128	% Rec		09/12/25 0000	09/12/25 1434	RAF
Surrogate: Dibromofluoromethane	95.2	Limit: 75-136	% Rec		09/12/25 0000	09/12/25 1434	RAF
Surrogate: 1,2-Dichloroethane-d4	95.3	Limit: 49-135	% Rec		09/12/25 0000	09/12/25 1434	RAF
Surrogate: 1,2-Dichloroethane-d4	95.3	Limit: 61-142	% Rec		09/12/25 0000	09/12/25 1434	RAF
Surrogate: Toluene-d8	97.6	Limit: 82-116	% Rec		09/12/25 0000	09/12/25 1434	RAF
Surrogate: Toluene-d8	97.6	Limit: 82-121	% Rec		09/12/25 0000	09/12/25 1434	RAF
Surrogate: 4-Bromofluorobenzene	89.9	Limit: 77-114	% Rec		09/12/25 0000	09/12/25 1434	RAF
Surrogate: 4-Bromofluorobenzene	89.9	Limit: 80-116	% Rec		09/12/25 0000	09/12/25 1434	RAF

Metals Total by ICPMS	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A							
Antimony	<0.0010	0.0010	mg/L		09/12/25 1653	09/15/25 2313	RVV
Arsenic	<0.0020	0.0020	mg/L		09/12/25 1653	09/15/25 2313	RVV
Barium	0.0357	0.0010	mg/L		09/12/25 1653	09/15/25 2313	RVV
Beryllium	<0.0005	0.0005	mg/L		09/12/25 1653	09/15/25 2313	RVV
Cadmium	<0.0002	0.0002	mg/L		09/12/25 1653	09/15/25 2313	RVV
Chromium	<0.0010	0.0010	mg/L		09/12/25 1653	09/15/25 2313	RVV
Cobalt	0.0008	0.0005	mg/L		09/12/25 1653	09/15/25 2313	RVV
Copper	<0.0050	0.0050	mg/L		09/12/25 1653	09/15/25 2313	RVV
Lead	<0.0010	0.0010	mg/L		09/12/25 1653	09/15/25 2313	RVV
Nickel	<0.0050	0.0050	mg/L		09/12/25 1653	09/15/25 2313	RVV
Selenium	0.0049	0.0020	mg/L		09/12/25 1653	09/15/25 2313	RVV
Silver	<0.0050	0.0050	mg/L		09/12/25 1653	09/15/25 2313	RVV
Thallium	<0.0005	0.0005	mg/L		09/12/25 1653	09/15/25 2313	RVV
Vanadium	<0.0020	0.0020	mg/L		09/12/25 1653	09/15/25 2313	RVV
Zinc	0.0158	0.0050	mg/L		09/12/25 1653	09/15/25 2313	RVV

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CERTIFICATE OF ANALYSIS

111028

Client Sample ID: MW96-21R
Sample Matrix: Aqueous
Lab Sample ID: 111028-09

Collected By: Whipple, Todd
Collection Date: 09/09/2025 10:38

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 8260D							
Chloromethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1457	RAF
Vinyl Chloride	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1457	RAF
Bromomethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1457	RAF
Chloroethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1457	RAF
Trichlorofluoromethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1457	RAF
1,1-Dichloroethylene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1457	RAF
Acetone	<10.0	10.0	ug/L		09/12/25 0000	09/12/25 1457	RAF
Methyl Iodide	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1457	RAF
Carbon Disulfide	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1457	RAF
Methylene Chloride	<5.0	5.0	ug/L		09/12/25 0000	09/12/25 1457	RAF
Acrylonitrile	<5.0	5.0	ug/L		09/12/25 0000	09/12/25 1457	RAF
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1457	RAF
1,1-Dichloroethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1457	RAF
Vinyl Acetate	<5.0	5.0	ug/L		09/12/25 0000	09/12/25 1457	RAF
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1457	RAF
2-Butanone (MEK)	<10.0	10.0	ug/L		09/12/25 0000	09/12/25 1457	RAF
Bromochloromethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1457	RAF
Chloroform	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1457	RAF
1,1,1-Trichloroethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1457	RAF
Carbon Tetrachloride	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1457	RAF
Benzene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1457	RAF
1,2-Dichloroethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1457	RAF
Trichloroethylene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1457	RAF
1,2-Dichloropropane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1457	RAF
Dibromomethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1457	RAF
Bromodichloromethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1457	RAF
cis-1,3-Dichloropropene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1457	RAF
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L		09/12/25 0000	09/12/25 1457	RAF
Toluene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1457	RAF
trans-1,3-Dichloropropene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1457	RAF
1,1,2-Trichloroethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1457	RAF
Tetrachloroethylene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1457	RAF
2-Hexanone (MBK)	<5.0	5.0	ug/L		09/12/25 0000	09/12/25 1457	RAF
Dibromochloromethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1457	RAF
1,2-Dibromoethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1457	RAF
Chlorobenzene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1457	RAF
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1457	RAF
Ethylbenzene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1457	RAF
Xylenes, total	<2.0	2.0	ug/L		09/12/25 0000	09/12/25 1457	RAF
Styrene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1457	RAF
Bromoform	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1457	RAF
1,2,3-Trichloropropane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1457	RAF

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CERTIFICATE OF ANALYSIS

111028

Client Sample ID: MW96-21R
Sample Matrix: Aqueous
Lab Sample ID: 111028-09

Collected By: Whipple, Todd
Collection Date: 09/09/2025 10:38

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
trans-1,4-Dichloro-2-butene	<5.0	5.0	ug/L		09/12/25 0000	09/12/25 1457	RAF
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1457	RAF
1,4-Dichlorobenzene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1457	RAF
1,2-Dichlorobenzene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1457	RAF
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L		09/12/25 0000	09/12/25 1457	RAF
Surrogate: Dibromofluoromethane	93.8	Limit: 75-136	% Rec		09/12/25 0000	09/12/25 1457	RAF
Surrogate: Dibromofluoromethane	93.8	Limit: 57-128	% Rec		09/12/25 0000	09/12/25 1457	RAF
Surrogate: 1,2-Dichloroethane-d4	96.6	Limit: 49-135	% Rec		09/12/25 0000	09/12/25 1457	RAF
Surrogate: 1,2-Dichloroethane-d4	96.6	Limit: 61-142	% Rec		09/12/25 0000	09/12/25 1457	RAF
Surrogate: Toluene-d8	98.0	Limit: 82-121	% Rec		09/12/25 0000	09/12/25 1457	RAF
Surrogate: Toluene-d8	98.0	Limit: 82-116	% Rec		09/12/25 0000	09/12/25 1457	RAF
Surrogate: 4-Bromofluorobenzene	94.7	Limit: 77-114	% Rec		09/12/25 0000	09/12/25 1457	RAF
Surrogate: 4-Bromofluorobenzene	94.7	Limit: 80-116	% Rec		09/12/25 0000	09/12/25 1457	RAF

Metals Total by ICPMS	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A							
Antimony	<0.0010	0.0010	mg/L		09/12/25 1653	09/15/25 2316	RVV
Arsenic	0.0124	0.0020	mg/L		09/12/25 1653	09/15/25 2316	RVV
Barium	0.369	0.0010	mg/L		09/12/25 1653	09/15/25 2316	RVV
Beryllium	<0.0005	0.0005	mg/L		09/12/25 1653	09/15/25 2316	RVV
Cadmium	<0.0002	0.0002	mg/L		09/12/25 1653	09/15/25 2316	RVV
Chromium	0.0024	0.0010	mg/L		09/12/25 1653	09/15/25 2316	RVV
Cobalt	0.0008	0.0005	mg/L		09/12/25 1653	09/15/25 2316	RVV
Copper	0.0065	0.0050	mg/L		09/12/25 1653	09/15/25 2316	RVV
Lead	<0.0010	0.0010	mg/L		09/12/25 1653	09/15/25 2316	RVV
Nickel	<0.0050	0.0050	mg/L		09/12/25 1653	09/15/25 2316	RVV
Selenium	<0.0020	0.0020	mg/L		09/12/25 1653	09/15/25 2316	RVV
Silver	<0.0050	0.0050	mg/L		09/12/25 1653	09/15/25 2316	RVV
Thallium	<0.0005	0.0005	mg/L		09/12/25 1653	09/15/25 2316	RVV
Vanadium	<0.0020	0.0020	mg/L		09/12/25 1653	09/15/25 2316	RVV
Zinc	0.0117	0.0050	mg/L		09/12/25 1653	09/15/25 2316	RVV

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CERTIFICATE OF ANALYSIS

111028

Client Sample ID: MW96-24
Sample Matrix: Aqueous
Lab Sample ID: 111028-10

Collected By: Whipple, Todd
Collection Date: 09/09/2025 11:11

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 8260D							
Chloromethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1520	RAF
Vinyl Chloride	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1520	RAF
Bromomethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1520	RAF
Chloroethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1520	RAF
Trichlorofluoromethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1520	RAF
1,1-Dichloroethylene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1520	RAF
Acetone	<10.0	10.0	ug/L		09/12/25 0000	09/12/25 1520	RAF
Methyl Iodide	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1520	RAF
Carbon Disulfide	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1520	RAF
Methylene Chloride	<5.0	5.0	ug/L		09/12/25 0000	09/12/25 1520	RAF
Acrylonitrile	<5.0	5.0	ug/L		09/12/25 0000	09/12/25 1520	RAF
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1520	RAF
1,1-Dichloroethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1520	RAF
Vinyl Acetate	<5.0	5.0	ug/L		09/12/25 0000	09/12/25 1520	RAF
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1520	RAF
2-Butanone (MEK)	<10.0	10.0	ug/L		09/12/25 0000	09/12/25 1520	RAF
Bromochloromethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1520	RAF
Chloroform	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1520	RAF
1,1,1-Trichloroethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1520	RAF
Carbon Tetrachloride	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1520	RAF
Benzene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1520	RAF
1,2-Dichloroethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1520	RAF
Trichloroethylene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1520	RAF
1,2-Dichloropropane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1520	RAF
Dibromomethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1520	RAF
Bromodichloromethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1520	RAF
cis-1,3-Dichloropropene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1520	RAF
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L		09/12/25 0000	09/12/25 1520	RAF
Toluene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1520	RAF
trans-1,3-Dichloropropene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1520	RAF
1,1,2-Trichloroethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1520	RAF
Tetrachloroethylene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1520	RAF
2-Hexanone (MBK)	<5.0	5.0	ug/L		09/12/25 0000	09/12/25 1520	RAF
Dibromochloromethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1520	RAF
1,2-Dibromoethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1520	RAF
Chlorobenzene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1520	RAF
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1520	RAF
Ethylbenzene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1520	RAF
Xylenes, total	<2.0	2.0	ug/L		09/12/25 0000	09/12/25 1520	RAF
Styrene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1520	RAF
Bromoform	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1520	RAF
1,2,3-Trichloropropane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1520	RAF

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111028

Client Sample ID: MW96-24
Sample Matrix: Aqueous
Lab Sample ID: 111028-10

Collected By: Whipple, Todd
Collection Date: 09/09/2025 11:11

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
trans-1,4-Dichloro-2-butene	<5.0	5.0	ug/L		09/12/25 0000	09/12/25 1520	RAF
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1520	RAF
1,4-Dichlorobenzene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1520	RAF
1,2-Dichlorobenzene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1520	RAF
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L		09/12/25 0000	09/12/25 1520	RAF
Surrogate: Dibromofluoromethane	99.0	Limit: 57-128	% Rec		09/12/25 0000	09/12/25 1520	RAF
Surrogate: Dibromofluoromethane	99.0	Limit: 75-136	% Rec		09/12/25 0000	09/12/25 1520	RAF
Surrogate: 1,2-Dichloroethane-d4	101	Limit: 49-135	% Rec		09/12/25 0000	09/12/25 1520	RAF
Surrogate: 1,2-Dichloroethane-d4	101	Limit: 61-142	% Rec		09/12/25 0000	09/12/25 1520	RAF
Surrogate: Toluene-d8	99.8	Limit: 82-116	% Rec		09/12/25 0000	09/12/25 1520	RAF
Surrogate: Toluene-d8	99.8	Limit: 82-121	% Rec		09/12/25 0000	09/12/25 1520	RAF
Surrogate: 4-Bromofluorobenzene	91.5	Limit: 77-114	% Rec		09/12/25 0000	09/12/25 1520	RAF
Surrogate: 4-Bromofluorobenzene	91.5	Limit: 80-116	% Rec		09/12/25 0000	09/12/25 1520	RAF

Metals Total by ICPMS	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A							
Antimony	<0.0010	0.0010	mg/L		09/12/25 1653	09/15/25 2318	RVV
Arsenic	<0.0020	0.0020	mg/L		09/12/25 1653	09/15/25 2318	RVV
Barium	0.559	0.0010	mg/L		09/12/25 1653	09/15/25 2318	RVV
Beryllium	<0.0005	0.0005	mg/L		09/12/25 1653	09/15/25 2318	RVV
Cadmium	0.0002	0.0002	mg/L		09/12/25 1653	09/15/25 2318	RVV
Chromium	<0.0010	0.0010	mg/L		09/12/25 1653	09/15/25 2318	RVV
Cobalt	0.0006	0.0005	mg/L		09/12/25 1653	09/15/25 2318	RVV
Copper	<0.0050	0.0050	mg/L		09/12/25 1653	09/15/25 2318	RVV
Lead	<0.0010	0.0010	mg/L		09/12/25 1653	09/15/25 2318	RVV
Nickel	<0.0050	0.0050	mg/L		09/12/25 1653	09/15/25 2318	RVV
Selenium	<0.0020	0.0020	mg/L		09/12/25 1653	09/15/25 2318	RVV
Silver	<0.0050	0.0050	mg/L		09/12/25 1653	09/15/25 2318	RVV
Thallium	<0.0005	0.0005	mg/L		09/12/25 1653	09/15/25 2318	RVV
Vanadium	<0.0020	0.0020	mg/L		09/12/25 1653	09/15/25 2318	RVV
Zinc	0.0107	0.0050	mg/L		09/12/25 1653	09/15/25 2318	RVV

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CERTIFICATE OF ANALYSIS

111028

Client Sample ID: MW88-3
Sample Matrix: Aqueous
Lab Sample ID: 111028-11

Collected By: Whipple, Todd
Collection Date: 09/09/2025 12:05

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 8260D							
Chloromethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1543	RAF
Vinyl Chloride	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1543	RAF
Bromomethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1543	RAF
Chloroethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1543	RAF
Trichlorofluoromethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1543	RAF
1,1-Dichloroethylene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1543	RAF
Acetone	<10.0	10.0	ug/L		09/12/25 0000	09/12/25 1543	RAF
Methyl Iodide	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1543	RAF
Carbon Disulfide	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1543	RAF
Methylene Chloride	<5.0	5.0	ug/L		09/12/25 0000	09/12/25 1543	RAF
Acrylonitrile	<5.0	5.0	ug/L		09/12/25 0000	09/12/25 1543	RAF
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1543	RAF
1,1-Dichloroethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1543	RAF
Vinyl Acetate	<5.0	5.0	ug/L		09/12/25 0000	09/12/25 1543	RAF
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1543	RAF
2-Butanone (MEK)	<10.0	10.0	ug/L		09/12/25 0000	09/12/25 1543	RAF
Bromochloromethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1543	RAF
Chloroform	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1543	RAF
1,1,1-Trichloroethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1543	RAF
Carbon Tetrachloride	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1543	RAF
Benzene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1543	RAF
1,2-Dichloroethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1543	RAF
Trichloroethylene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1543	RAF
1,2-Dichloropropane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1543	RAF
Dibromomethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1543	RAF
Bromodichloromethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1543	RAF
cis-1,3-Dichloropropene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1543	RAF
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L		09/12/25 0000	09/12/25 1543	RAF
Toluene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1543	RAF
trans-1,3-Dichloropropene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1543	RAF
1,1,2-Trichloroethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1543	RAF
Tetrachloroethylene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1543	RAF
2-Hexanone (MBK)	<5.0	5.0	ug/L		09/12/25 0000	09/12/25 1543	RAF
Dibromochloromethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1543	RAF
1,2-Dibromoethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1543	RAF
Chlorobenzene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1543	RAF
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1543	RAF
Ethylbenzene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1543	RAF
Xylenes, total	<2.0	2.0	ug/L		09/12/25 0000	09/12/25 1543	RAF
Styrene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1543	RAF
Bromoform	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1543	RAF
1,2,3-Trichloropropane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1543	RAF

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CERTIFICATE OF ANALYSIS

111028

Client Sample ID: MW88-3
Sample Matrix: Aqueous
Lab Sample ID: 111028-11

Collected By: Whipple, Todd
Collection Date: 09/09/2025 12:05

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
trans-1,4-Dichloro-2-butene	<5.0	5.0	ug/L		09/12/25 0000	09/12/25 1543	RAF
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1543	RAF
1,4-Dichlorobenzene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1543	RAF
1,2-Dichlorobenzene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1543	RAF
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L		09/12/25 0000	09/12/25 1543	RAF
Surrogate: Dibromofluoromethane	97.9	Limit: 75-136	% Rec		09/12/25 0000	09/12/25 1543	RAF
Surrogate: Dibromofluoromethane	97.9	Limit: 57-128	% Rec		09/12/25 0000	09/12/25 1543	RAF
Surrogate: 1,2-Dichloroethane-d4	98.7	Limit: 49-135	% Rec		09/12/25 0000	09/12/25 1543	RAF
Surrogate: 1,2-Dichloroethane-d4	98.7	Limit: 61-142	% Rec		09/12/25 0000	09/12/25 1543	RAF
Surrogate: Toluene-d8	98.0	Limit: 82-121	% Rec		09/12/25 0000	09/12/25 1543	RAF
Surrogate: Toluene-d8	98.0	Limit: 82-116	% Rec		09/12/25 0000	09/12/25 1543	RAF
Surrogate: 4-Bromofluorobenzene	90.0	Limit: 80-116	% Rec		09/12/25 0000	09/12/25 1543	RAF
Surrogate: 4-Bromofluorobenzene	90.0	Limit: 77-114	% Rec		09/12/25 0000	09/12/25 1543	RAF

Metals Total by ICPMS	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A							
Antimony	<0.0010	0.0010	mg/L		09/12/25 1653	09/15/25 2321	RVV
Arsenic	<0.0020	0.0020	mg/L		09/12/25 1653	09/15/25 2321	RVV
Barium	0.124	0.0010	mg/L		09/12/25 1653	09/15/25 2321	RVV
Beryllium	<0.0005	0.0005	mg/L		09/12/25 1653	09/15/25 2321	RVV
Cadmium	0.0024	0.0002	mg/L		09/12/25 1653	09/15/25 2321	RVV
Chromium	<0.0010	0.0010	mg/L		09/12/25 1653	09/15/25 2321	RVV
Cobalt	0.0007	0.0005	mg/L		09/12/25 1653	09/15/25 2321	RVV
Copper	<0.0050	0.0050	mg/L		09/12/25 1653	09/15/25 2321	RVV
Lead	<0.0010	0.0010	mg/L		09/12/25 1653	09/15/25 2321	RVV
Nickel	<0.0050	0.0050	mg/L		09/12/25 1653	09/15/25 2321	RVV
Selenium	<0.0020	0.0020	mg/L		09/12/25 1653	09/15/25 2321	RVV
Silver	<0.0050	0.0050	mg/L		09/12/25 1653	09/15/25 2321	RVV
Thallium	<0.0005	0.0005	mg/L		09/12/25 1653	09/15/25 2321	RVV
Vanadium	<0.0020	0.0020	mg/L		09/12/25 1653	09/15/25 2321	RVV
Zinc	0.0079	0.0050	mg/L		09/12/25 1653	09/15/25 2321	RVV

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CERTIFICATE OF ANALYSIS

111028

Client Sample ID: MW96-23
Sample Matrix: Aqueous
Lab Sample ID: 111028-12

Collected By: Whipple, Todd
Collection Date: 09/09/2025 11:29

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 8260D							
Chloromethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1605	RAF
Vinyl Chloride	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1605	RAF
Bromomethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1605	RAF
Chloroethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1605	RAF
Trichlorofluoromethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1605	RAF
1,1-Dichloroethylene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1605	RAF
Acetone	<10.0	10.0	ug/L		09/12/25 0000	09/12/25 1605	RAF
Methyl Iodide	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1605	RAF
Carbon Disulfide	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1605	RAF
Methylene Chloride	<5.0	5.0	ug/L		09/12/25 0000	09/12/25 1605	RAF
Acrylonitrile	<5.0	5.0	ug/L		09/12/25 0000	09/12/25 1605	RAF
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1605	RAF
1,1-Dichloroethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1605	RAF
Vinyl Acetate	<5.0	5.0	ug/L		09/12/25 0000	09/12/25 1605	RAF
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1605	RAF
2-Butanone (MEK)	<10.0	10.0	ug/L		09/12/25 0000	09/12/25 1605	RAF
Bromochloromethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1605	RAF
Chloroform	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1605	RAF
1,1,1-Trichloroethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1605	RAF
Carbon Tetrachloride	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1605	RAF
Benzene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1605	RAF
1,2-Dichloroethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1605	RAF
Trichloroethylene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1605	RAF
1,2-Dichloropropane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1605	RAF
Dibromomethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1605	RAF
Bromodichloromethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1605	RAF
cis-1,3-Dichloropropene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1605	RAF
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L		09/12/25 0000	09/12/25 1605	RAF
Toluene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1605	RAF
trans-1,3-Dichloropropene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1605	RAF
1,1,2-Trichloroethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1605	RAF
Tetrachloroethylene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1605	RAF
2-Hexanone (MBK)	<5.0	5.0	ug/L		09/12/25 0000	09/12/25 1605	RAF
Dibromochloromethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1605	RAF
1,2-Dibromoethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1605	RAF
Chlorobenzene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1605	RAF
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1605	RAF
Ethylbenzene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1605	RAF
Xylenes, total	<2.0	2.0	ug/L		09/12/25 0000	09/12/25 1605	RAF
Styrene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1605	RAF
Bromoform	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1605	RAF
1,2,3-Trichloropropane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1605	RAF

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CERTIFICATE OF ANALYSIS

111028

Client Sample ID: MW96-23
Sample Matrix: Aqueous
Lab Sample ID: 111028-12

Collected By: Whipple, Todd
Collection Date: 09/09/2025 11:29

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
trans-1,4-Dichloro-2-butene	<5.0	5.0	ug/L		09/12/25 0000	09/12/25 1605	RAF
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1605	RAF
1,4-Dichlorobenzene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1605	RAF
1,2-Dichlorobenzene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1605	RAF
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L		09/12/25 0000	09/12/25 1605	RAF
Surrogate: Dibromofluoromethane	96.1	Limit: 75-136	% Rec		09/12/25 0000	09/12/25 1605	RAF
Surrogate: Dibromofluoromethane	96.1	Limit: 57-128	% Rec		09/12/25 0000	09/12/25 1605	RAF
Surrogate: 1,2-Dichloroethane-d4	102	Limit: 61-142	% Rec		09/12/25 0000	09/12/25 1605	RAF
Surrogate: 1,2-Dichloroethane-d4	102	Limit: 49-135	% Rec		09/12/25 0000	09/12/25 1605	RAF
Surrogate: Toluene-d8	99.7	Limit: 82-116	% Rec		09/12/25 0000	09/12/25 1605	RAF
Surrogate: Toluene-d8	99.7	Limit: 82-121	% Rec		09/12/25 0000	09/12/25 1605	RAF
Surrogate: 4-Bromofluorobenzene	91.6	Limit: 80-116	% Rec		09/12/25 0000	09/12/25 1605	RAF
Surrogate: 4-Bromofluorobenzene	91.6	Limit: 77-114	% Rec		09/12/25 0000	09/12/25 1605	RAF

Metals Total by ICPMS	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A							
Antimony	<0.0010	0.0010	mg/L		09/12/25 1653	09/15/25 2323	RVV
Arsenic	0.0392	0.0020	mg/L		09/12/25 1653	09/15/25 2323	RVV
Barium	0.704	0.0010	mg/L		09/12/25 1653	09/15/25 2323	RVV
Beryllium	<0.0005	0.0005	mg/L		09/12/25 1653	09/15/25 2323	RVV
Cadmium	<0.0002	0.0002	mg/L		09/12/25 1653	09/15/25 2323	RVV
Chromium	0.0010	0.0010	mg/L		09/12/25 1653	09/15/25 2323	RVV
Cobalt	<0.0005	0.0005	mg/L		09/12/25 1653	09/15/25 2323	RVV
Copper	<0.0050	0.0050	mg/L		09/12/25 1653	09/15/25 2323	RVV
Lead	<0.0010	0.0010	mg/L		09/12/25 1653	09/15/25 2323	RVV
Nickel	<0.0050	0.0050	mg/L		09/12/25 1653	09/15/25 2323	RVV
Selenium	<0.0020	0.0020	mg/L		09/12/25 1653	09/15/25 2323	RVV
Silver	<0.0050	0.0050	mg/L		09/12/25 1653	09/15/25 2323	RVV
Thallium	<0.0005	0.0005	mg/L		09/12/25 1653	09/15/25 2323	RVV
Vanadium	<0.0020	0.0020	mg/L		09/12/25 1653	09/15/25 2323	RVV
Zinc	0.0102	0.0050	mg/L		09/12/25 1653	09/15/25 2323	RVV

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CERTIFICATE OF ANALYSIS

111028

Client Sample ID: MW21-43
Sample Matrix: Aqueous
Lab Sample ID: 111028-13

Collected By: Whipple, Todd
Collection Date: 09/09/2025 11:42

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 8260D							
Chloromethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1628	RAF
Vinyl Chloride	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1628	RAF
Bromomethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1628	RAF
Chloroethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1628	RAF
Trichlorofluoromethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1628	RAF
1,1-Dichloroethylene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1628	RAF
Acetone	<10.0	10.0	ug/L		09/12/25 0000	09/12/25 1628	RAF
Methyl Iodide	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1628	RAF
Carbon Disulfide	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1628	RAF
Methylene Chloride	<5.0	5.0	ug/L		09/12/25 0000	09/12/25 1628	RAF
Acrylonitrile	<5.0	5.0	ug/L		09/12/25 0000	09/12/25 1628	RAF
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1628	RAF
1,1-Dichloroethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1628	RAF
Vinyl Acetate	<5.0	5.0	ug/L		09/12/25 0000	09/12/25 1628	RAF
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1628	RAF
2-Butanone (MEK)	<10.0	10.0	ug/L		09/12/25 0000	09/12/25 1628	RAF
Bromochloromethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1628	RAF
Chloroform	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1628	RAF
1,1,1-Trichloroethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1628	RAF
Carbon Tetrachloride	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1628	RAF
Benzene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1628	RAF
1,2-Dichloroethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1628	RAF
Trichloroethylene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1628	RAF
1,2-Dichloropropane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1628	RAF
Dibromomethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1628	RAF
Bromodichloromethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1628	RAF
cis-1,3-Dichloropropene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1628	RAF
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L		09/12/25 0000	09/12/25 1628	RAF
Toluene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1628	RAF
trans-1,3-Dichloropropene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1628	RAF
1,1,2-Trichloroethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1628	RAF
Tetrachloroethylene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1628	RAF
2-Hexanone (MBK)	<5.0	5.0	ug/L		09/12/25 0000	09/12/25 1628	RAF
Dibromochloromethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1628	RAF
1,2-Dibromoethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1628	RAF
Chlorobenzene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1628	RAF
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1628	RAF
Ethylbenzene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1628	RAF
Xylenes, total	<2.0	2.0	ug/L		09/12/25 0000	09/12/25 1628	RAF
Styrene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1628	RAF
Bromoform	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1628	RAF
1,2,3-Trichloropropane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1628	RAF

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CERTIFICATE OF ANALYSIS

111028

Client Sample ID: MW21-43
Sample Matrix: Aqueous
Lab Sample ID: 111028-13

Collected By: Whipple, Todd
Collection Date: 09/09/2025 11:42

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
trans-1,4-Dichloro-2-butene	<5.0	5.0	ug/L		09/12/25 0000	09/12/25 1628	RAF
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1628	RAF
1,4-Dichlorobenzene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1628	RAF
1,2-Dichlorobenzene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1628	RAF
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L		09/12/25 0000	09/12/25 1628	RAF
Surrogate: Dibromofluoromethane	95.5	Limit: 75-136	% Rec		09/12/25 0000	09/12/25 1628	RAF
Surrogate: Dibromofluoromethane	95.5	Limit: 57-128	% Rec		09/12/25 0000	09/12/25 1628	RAF
Surrogate: 1,2-Dichloroethane-d4	96.5	Limit: 61-142	% Rec		09/12/25 0000	09/12/25 1628	RAF
Surrogate: 1,2-Dichloroethane-d4	96.5	Limit: 49-135	% Rec		09/12/25 0000	09/12/25 1628	RAF
Surrogate: Toluene-d8	100	Limit: 82-116	% Rec		09/12/25 0000	09/12/25 1628	RAF
Surrogate: Toluene-d8	100	Limit: 82-121	% Rec		09/12/25 0000	09/12/25 1628	RAF
Surrogate: 4-Bromofluorobenzene	97.4	Limit: 80-116	% Rec		09/12/25 0000	09/12/25 1628	RAF
Surrogate: 4-Bromofluorobenzene	97.4	Limit: 77-114	% Rec		09/12/25 0000	09/12/25 1628	RAF

Metals Total by ICPMS	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A							
Antimony	<0.0010	0.0010	mg/L		09/12/25 1653	09/15/25 2326	RVV
Arsenic	0.0057	0.0020	mg/L		09/12/25 1653	09/15/25 2326	RVV
Barium	0.200	0.0010	mg/L		09/12/25 1653	09/15/25 2326	RVV
Beryllium	<0.0005	0.0005	mg/L		09/12/25 1653	09/15/25 2326	RVV
Cadmium	0.0002	0.0002	mg/L		09/12/25 1653	09/15/25 2326	RVV
Chromium	<0.0010	0.0010	mg/L		09/12/25 1653	09/15/25 2326	RVV
Cobalt	<0.0005	0.0005	mg/L		09/12/25 1653	09/15/25 2326	RVV
Copper	<0.0050	0.0050	mg/L		09/12/25 1653	09/15/25 2326	RVV
Lead	<0.0010	0.0010	mg/L		09/12/25 1653	09/15/25 2326	RVV
Nickel	<0.0050	0.0050	mg/L		09/12/25 1653	09/15/25 2326	RVV
Selenium	<0.0020	0.0020	mg/L		09/12/25 1653	09/15/25 2326	RVV
Silver	<0.0050	0.0050	mg/L		09/12/25 1653	09/15/25 2326	RVV
Thallium	<0.0005	0.0005	mg/L		09/12/25 1653	09/15/25 2326	RVV
Vanadium	<0.0020	0.0020	mg/L		09/12/25 1653	09/15/25 2326	RVV
Zinc	0.0117	0.0050	mg/L		09/12/25 1653	09/15/25 2326	RVV

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CERTIFICATE OF ANALYSIS

111028

Client Sample ID: GU-4
Sample Matrix: Aqueous
Lab Sample ID: 111028-14

Collected By: Whipple, Todd
Collection Date: 09/09/2025 12:50

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 8260D							
Chloromethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1651	RAF
Vinyl Chloride	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1651	RAF
Bromomethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1651	RAF
Chloroethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1651	RAF
Trichlorofluoromethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1651	RAF
1,1-Dichloroethylene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1651	RAF
Acetone	<10.0	10.0	ug/L		09/12/25 0000	09/12/25 1651	RAF
Methyl Iodide	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1651	RAF
Carbon Disulfide	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1651	RAF
Methylene Chloride	<5.0	5.0	ug/L		09/12/25 0000	09/12/25 1651	RAF
Acrylonitrile	<5.0	5.0	ug/L		09/12/25 0000	09/12/25 1651	RAF
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1651	RAF
1,1-Dichloroethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1651	RAF
Vinyl Acetate	<5.0	5.0	ug/L		09/12/25 0000	09/12/25 1651	RAF
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1651	RAF
2-Butanone (MEK)	<10.0	10.0	ug/L		09/12/25 0000	09/12/25 1651	RAF
Bromochloromethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1651	RAF
Chloroform	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1651	RAF
1,1,1-Trichloroethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1651	RAF
Carbon Tetrachloride	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1651	RAF
Benzene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1651	RAF
1,2-Dichloroethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1651	RAF
Trichloroethylene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1651	RAF
1,2-Dichloropropane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1651	RAF
Dibromomethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1651	RAF
Bromodichloromethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1651	RAF
cis-1,3-Dichloropropene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1651	RAF
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L		09/12/25 0000	09/12/25 1651	RAF
Toluene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1651	RAF
trans-1,3-Dichloropropene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1651	RAF
1,1,2-Trichloroethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1651	RAF
Tetrachloroethylene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1651	RAF
2-Hexanone (MBK)	<5.0	5.0	ug/L		09/12/25 0000	09/12/25 1651	RAF
Dibromochloromethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1651	RAF
1,2-Dibromoethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1651	RAF
Chlorobenzene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1651	RAF
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1651	RAF
Ethylbenzene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1651	RAF
Xylenes, total	<2.0	2.0	ug/L		09/12/25 0000	09/12/25 1651	RAF
Styrene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1651	RAF
Bromoform	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1651	RAF
1,2,3-Trichloropropane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1651	RAF

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CERTIFICATE OF ANALYSIS

111028

Client Sample ID: GU-4
Sample Matrix: Aqueous
Lab Sample ID: 111028-14

Collected By: Whipple, Todd
Collection Date: 09/09/2025 12:50

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
trans-1,4-Dichloro-2-butene	<5.0	5.0	ug/L		09/12/25 0000	09/12/25 1651	RAF
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1651	RAF
1,4-Dichlorobenzene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1651	RAF
1,2-Dichlorobenzene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1651	RAF
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L		09/12/25 0000	09/12/25 1651	RAF
Surrogate: Dibromofluoromethane	94.5	Limit: 57-128	% Rec		09/12/25 0000	09/12/25 1651	RAF
Surrogate: Dibromofluoromethane	94.5	Limit: 75-136	% Rec		09/12/25 0000	09/12/25 1651	RAF
Surrogate: 1,2-Dichloroethane-d4	98.3	Limit: 49-135	% Rec		09/12/25 0000	09/12/25 1651	RAF
Surrogate: 1,2-Dichloroethane-d4	98.3	Limit: 61-142	% Rec		09/12/25 0000	09/12/25 1651	RAF
Surrogate: Toluene-d8	99.9	Limit: 82-121	% Rec		09/12/25 0000	09/12/25 1651	RAF
Surrogate: Toluene-d8	99.9	Limit: 82-116	% Rec		09/12/25 0000	09/12/25 1651	RAF
Surrogate: 4-Bromofluorobenzene	90.8	Limit: 77-114	% Rec		09/12/25 0000	09/12/25 1651	RAF
Surrogate: 4-Bromofluorobenzene	90.8	Limit: 80-116	% Rec		09/12/25 0000	09/12/25 1651	RAF

Metals Total by ICPMS	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A							
Antimony	<0.0010	0.0010	mg/L		09/12/25 1653	09/15/25 2328	RVV
Arsenic	0.0024	0.0020	mg/L		09/12/25 1653	09/15/25 2328	RVV
Barium	0.477	0.0010	mg/L		09/12/25 1653	09/15/25 2328	RVV
Beryllium	<0.0005	0.0005	mg/L		09/12/25 1653	09/15/25 2328	RVV
Cadmium	<0.0002	0.0002	mg/L		09/12/25 1653	09/15/25 2328	RVV
Chromium	<0.0010	0.0010	mg/L		09/12/25 1653	09/15/25 2328	RVV
Cobalt	0.0008	0.0005	mg/L		09/12/25 1653	09/15/25 2328	RVV
Copper	<0.0050	0.0050	mg/L		09/12/25 1653	09/15/25 2328	RVV
Lead	<0.0010	0.0010	mg/L		09/12/25 1653	09/15/25 2328	RVV
Nickel	<0.0050	0.0050	mg/L		09/12/25 1653	09/15/25 2328	RVV
Selenium	<0.0020	0.0020	mg/L		09/12/25 1653	09/15/25 2328	RVV
Silver	<0.0050	0.0050	mg/L		09/12/25 1653	09/15/25 2328	RVV
Thallium	<0.0005	0.0005	mg/L		09/12/25 1653	09/15/25 2328	RVV
Vanadium	<0.0020	0.0020	mg/L		09/12/25 1653	09/15/25 2328	RVV
Zinc	0.0341	0.0050	mg/L		09/12/25 1653	09/15/25 2328	RVV

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CERTIFICATE OF ANALYSIS

111028

Client Sample ID: MW98-25
Sample Matrix: Aqueous
Lab Sample ID: 111028-15

Collected By: Whipple, Todd
Collection Date: 09/09/2025 8:45

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 8260D							
Dichlorodifluoromethane	4.2	1.0	ug/L		09/12/25 0000	09/12/25 1714	RAF
Chloromethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1714	RAF
Vinyl Chloride	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1714	RAF
Bromomethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1714	RAF
Chloroethane	1.4	1.0	ug/L		09/12/25 0000	09/12/25 1714	RAF
Trichlorofluoromethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1714	RAF
1,1-Dichloroethylene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1714	RAF
Acetone	<10.0	10.0	ug/L		09/12/25 0000	09/12/25 1714	RAF
Methyl Iodide	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1714	RAF
Carbon Disulfide	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1714	RAF
Methylene Chloride	<5.0	5.0	ug/L		09/12/25 0000	09/12/25 1714	RAF
Acrylonitrile	<5.0	5.0	ug/L		09/12/25 0000	09/12/25 1714	RAF
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1714	RAF
1,1-Dichloroethane	1.0	1.0	ug/L		09/12/25 0000	09/12/25 1714	RAF
Vinyl Acetate	<5.0	5.0	ug/L		09/12/25 0000	09/12/25 1714	RAF
cis-1,2-Dichloroethylene	2.4	1.0	ug/L		09/12/25 0000	09/12/25 1714	RAF
2-Butanone (MEK)	<10.0	10.0	ug/L		09/12/25 0000	09/12/25 1714	RAF
Bromochloromethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1714	RAF
Chloroform	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1714	RAF
1,1,1-Trichloroethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1714	RAF
Carbon Tetrachloride	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1714	RAF
Benzene	1.4	1.0	ug/L		09/12/25 0000	09/12/25 1714	RAF
1,2-Dichloroethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1714	RAF
Trichloroethylene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1714	RAF
1,2-Dichloropropane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1714	RAF
Dibromomethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1714	RAF
Bromodichloromethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1714	RAF
cis-1,3-Dichloropropene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1714	RAF
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L		09/12/25 0000	09/12/25 1714	RAF
Toluene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1714	RAF
trans-1,3-Dichloropropene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1714	RAF
1,1,2-Trichloroethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1714	RAF
Tetrachloroethylene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1714	RAF
2-Hexanone (MBK)	<5.0	5.0	ug/L		09/12/25 0000	09/12/25 1714	RAF
Dibromochloromethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1714	RAF
1,2-Dibromoethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1714	RAF
Chlorobenzene	1.4	1.0	ug/L		09/12/25 0000	09/12/25 1714	RAF
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1714	RAF
Ethylbenzene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1714	RAF
Xylenes, total	<2.0	2.0	ug/L		09/12/25 0000	09/12/25 1714	RAF
Styrene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1714	RAF
Bromoform	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1714	RAF

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111028

Client Sample ID: MW98-25
Sample Matrix: Aqueous
Lab Sample ID: 111028-15

Collected By: Whipple, Todd
Collection Date: 09/09/2025 8:45

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
1,2,3-Trichloropropane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1714	RAF
trans-1,4-Dichloro-2-butene	<5.0	5.0	ug/L		09/12/25 0000	09/12/25 1714	RAF
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1714	RAF
1,4-Dichlorobenzene	2.7	1.0	ug/L		09/12/25 0000	09/12/25 1714	RAF
1,2-Dichlorobenzene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1714	RAF
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L		09/12/25 0000	09/12/25 1714	RAF
Surrogate: Dibromofluoromethane	97.4	Limit: 57-128	% Rec		09/12/25 0000	09/12/25 1714	RAF
Surrogate: Dibromofluoromethane	97.4	Limit: 75-136	% Rec		09/12/25 0000	09/12/25 1714	RAF
Surrogate: 1,2-Dichloroethane-d4	97.2	Limit: 49-135	% Rec		09/12/25 0000	09/12/25 1714	RAF
Surrogate: 1,2-Dichloroethane-d4	97.2	Limit: 61-142	% Rec		09/12/25 0000	09/12/25 1714	RAF
Surrogate: Toluene-d8	97.8	Limit: 82-121	% Rec		09/12/25 0000	09/12/25 1714	RAF
Surrogate: Toluene-d8	97.8	Limit: 82-116	% Rec		09/12/25 0000	09/12/25 1714	RAF
Surrogate: 4-Bromofluorobenzene	94.0	Limit: 77-114	% Rec		09/12/25 0000	09/12/25 1714	RAF
Surrogate: 4-Bromofluorobenzene	94.0	Limit: 80-116	% Rec		09/12/25 0000	09/12/25 1714	RAF

Metals Total by ICPMS	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A							
Antimony	<0.0010	0.0010	mg/L		09/12/25 1653	09/15/25 2331	RVV
Arsenic	0.0076	0.0020	mg/L		09/12/25 1653	09/15/25 2331	RVV
Barium	0.0877	0.0010	mg/L		09/12/25 1653	09/15/25 2331	RVV
Beryllium	<0.0005	0.0005	mg/L		09/12/25 1653	09/15/25 2331	RVV
Cadmium	<0.0002	0.0002	mg/L		09/12/25 1653	09/15/25 2331	RVV
Chromium	0.0016	0.0010	mg/L		09/12/25 1653	09/15/25 2331	RVV
Cobalt	0.0123	0.0005	mg/L		09/12/25 1653	09/15/25 2331	RVV
Copper	<0.0050	0.0050	mg/L		09/12/25 1653	09/15/25 2331	RVV
Lead	<0.0010	0.0010	mg/L		09/12/25 1653	09/15/25 2331	RVV
Nickel	0.0276	0.0050	mg/L		09/12/25 1653	09/15/25 2331	RVV
Selenium	<0.0020	0.0020	mg/L		09/12/25 1653	09/15/25 2331	RVV
Silver	<0.0050	0.0050	mg/L		09/12/25 1653	09/15/25 2331	RVV
Thallium	<0.0005	0.0005	mg/L		09/12/25 1653	09/15/25 2331	RVV
Vanadium	<0.0020	0.0020	mg/L		09/12/25 1653	09/15/25 2331	RVV
Zinc	<0.0050	0.0050	mg/L		09/12/25 1653	09/15/25 2331	RVV

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CERTIFICATE OF ANALYSIS

111028

Client Sample ID: MW06-37
Sample Matrix: Aqueous
Lab Sample ID: 111028-16

Collected By: Whipple, Todd
Collection Date: 09/09/2025 14:26

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 8260D							
Chloromethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1737	RAF
Vinyl Chloride	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1737	RAF
Bromomethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1737	RAF
Chloroethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1737	RAF
Trichlorofluoromethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1737	RAF
1,1-Dichloroethylene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1737	RAF
Acetone	<10.0	10.0	ug/L		09/12/25 0000	09/12/25 1737	RAF
Methyl Iodide	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1737	RAF
Carbon Disulfide	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1737	RAF
Methylene Chloride	<5.0	5.0	ug/L		09/12/25 0000	09/12/25 1737	RAF
Acrylonitrile	<5.0	5.0	ug/L		09/12/25 0000	09/12/25 1737	RAF
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1737	RAF
1,1-Dichloroethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1737	RAF
Vinyl Acetate	<5.0	5.0	ug/L		09/12/25 0000	09/12/25 1737	RAF
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1737	RAF
2-Butanone (MEK)	<10.0	10.0	ug/L		09/12/25 0000	09/12/25 1737	RAF
Bromochloromethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1737	RAF
Chloroform	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1737	RAF
1,1,1-Trichloroethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1737	RAF
Carbon Tetrachloride	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1737	RAF
Benzene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1737	RAF
1,2-Dichloroethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1737	RAF
Trichloroethylene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1737	RAF
1,2-Dichloropropane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1737	RAF
Dibromomethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1737	RAF
Bromodichloromethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1737	RAF
cis-1,3-Dichloropropene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1737	RAF
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L		09/12/25 0000	09/12/25 1737	RAF
Toluene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1737	RAF
trans-1,3-Dichloropropene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1737	RAF
1,1,2-Trichloroethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1737	RAF
Tetrachloroethylene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1737	RAF
2-Hexanone (MBK)	<5.0	5.0	ug/L		09/12/25 0000	09/12/25 1737	RAF
Dibromochloromethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1737	RAF
1,2-Dibromoethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1737	RAF
Chlorobenzene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1737	RAF
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1737	RAF
Ethylbenzene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1737	RAF
Xylenes, total	<2.0	2.0	ug/L		09/12/25 0000	09/12/25 1737	RAF
Styrene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1737	RAF
Bromoform	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1737	RAF
1,2,3-Trichloropropane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1737	RAF

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CERTIFICATE OF ANALYSIS

111028

Client Sample ID: MW06-37
Sample Matrix: Aqueous
Lab Sample ID: 111028-16

Collected By: Whipple, Todd
Collection Date: 09/09/2025 14:26

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
trans-1,4-Dichloro-2-butene	<5.0	5.0	ug/L		09/12/25 0000	09/12/25 1737	RAF
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1737	RAF
1,4-Dichlorobenzene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1737	RAF
1,2-Dichlorobenzene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1737	RAF
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L		09/12/25 0000	09/12/25 1737	RAF
Surrogate: Dibromofluoromethane	93.8	Limit: 75-136	% Rec		09/12/25 0000	09/12/25 1737	RAF
Surrogate: Dibromofluoromethane	93.8	Limit: 57-128	% Rec		09/12/25 0000	09/12/25 1737	RAF
Surrogate: 1,2-Dichloroethane-d4	95.0	Limit: 61-142	% Rec		09/12/25 0000	09/12/25 1737	RAF
Surrogate: 1,2-Dichloroethane-d4	95.0	Limit: 49-135	% Rec		09/12/25 0000	09/12/25 1737	RAF
Surrogate: Toluene-d8	99.4	Limit: 82-121	% Rec		09/12/25 0000	09/12/25 1737	RAF
Surrogate: Toluene-d8	99.4	Limit: 82-116	% Rec		09/12/25 0000	09/12/25 1737	RAF
Surrogate: 4-Bromofluorobenzene	92.7	Limit: 80-116	% Rec		09/12/25 0000	09/12/25 1737	RAF
Surrogate: 4-Bromofluorobenzene	92.7	Limit: 77-114	% Rec		09/12/25 0000	09/12/25 1737	RAF

Metals Total by ICPMS	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A							
Antimony	<0.0010	0.0010	mg/L		09/12/25 1653	09/15/25 2333	RVV
Arsenic	<0.0020	0.0020	mg/L		09/12/25 1653	09/15/25 2333	RVV
Barium	0.112	0.0010	mg/L		09/12/25 1653	09/15/25 2333	RVV
Beryllium	<0.0005	0.0005	mg/L		09/12/25 1653	09/15/25 2333	RVV
Cadmium	<0.0002	0.0002	mg/L		09/12/25 1653	09/15/25 2333	RVV
Chromium	<0.0010	0.0010	mg/L		09/12/25 1653	09/15/25 2333	RVV
Cobalt	<0.0005	0.0005	mg/L		09/12/25 1653	09/15/25 2333	RVV
Copper	<0.0050	0.0050	mg/L		09/12/25 1653	09/15/25 2333	RVV
Lead	<0.0010	0.0010	mg/L		09/12/25 1653	09/15/25 2333	RVV
Nickel	<0.0050	0.0050	mg/L		09/12/25 1653	09/15/25 2333	RVV
Selenium	0.0025	0.0020	mg/L		09/12/25 1653	09/15/25 2333	RVV
Silver	<0.0050	0.0050	mg/L		09/12/25 1653	09/15/25 2333	RVV
Thallium	<0.0005	0.0005	mg/L		09/12/25 1653	09/15/25 2333	RVV
Vanadium	<0.0020	0.0020	mg/L		09/12/25 1653	09/15/25 2333	RVV
Zinc	0.0051	0.0050	mg/L		09/12/25 1653	09/15/25 2333	RVV

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CERTIFICATE OF ANALYSIS

111028

Client Sample ID: MW06-38
Sample Matrix: Aqueous
Lab Sample ID: 111028-17

Collected By: Whipple, Todd
Collection Date: 09/09/2025 14:33

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 8260D							
Chloromethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1800	RAF
Vinyl Chloride	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1800	RAF
Bromomethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1800	RAF
Chloroethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1800	RAF
Trichlorofluoromethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1800	RAF
1,1-Dichloroethylene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1800	RAF
Acetone	<10.0	10.0	ug/L		09/12/25 0000	09/12/25 1800	RAF
Methyl Iodide	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1800	RAF
Carbon Disulfide	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1800	RAF
Methylene Chloride	<5.0	5.0	ug/L		09/12/25 0000	09/12/25 1800	RAF
Acrylonitrile	<5.0	5.0	ug/L		09/12/25 0000	09/12/25 1800	RAF
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1800	RAF
1,1-Dichloroethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1800	RAF
Vinyl Acetate	<5.0	5.0	ug/L		09/12/25 0000	09/12/25 1800	RAF
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1800	RAF
2-Butanone (MEK)	<10.0	10.0	ug/L		09/12/25 0000	09/12/25 1800	RAF
Bromochloromethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1800	RAF
Chloroform	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1800	RAF
1,1,1-Trichloroethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1800	RAF
Carbon Tetrachloride	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1800	RAF
Benzene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1800	RAF
1,2-Dichloroethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1800	RAF
Trichloroethylene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1800	RAF
1,2-Dichloropropane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1800	RAF
Dibromomethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1800	RAF
Bromodichloromethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1800	RAF
cis-1,3-Dichloropropene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1800	RAF
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L		09/12/25 0000	09/12/25 1800	RAF
Toluene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1800	RAF
trans-1,3-Dichloropropene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1800	RAF
1,1,2-Trichloroethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1800	RAF
Tetrachloroethylene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1800	RAF
2-Hexanone (MBK)	<5.0	5.0	ug/L		09/12/25 0000	09/12/25 1800	RAF
Dibromochloromethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1800	RAF
1,2-Dibromoethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1800	RAF
Chlorobenzene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1800	RAF
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1800	RAF
Ethylbenzene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1800	RAF
Xylenes, total	<2.0	2.0	ug/L		09/12/25 0000	09/12/25 1800	RAF
Styrene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1800	RAF
Bromoform	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1800	RAF
1,2,3-Trichloropropane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1800	RAF

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CERTIFICATE OF ANALYSIS

111028

Client Sample ID: MW06-38
Sample Matrix: Aqueous
Lab Sample ID: 111028-17

Collected By: Whipple, Todd
Collection Date: 09/09/2025 14:33

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
trans-1,4-Dichloro-2-butene	<5.0	5.0	ug/L		09/12/25 0000	09/12/25 1800	RAF
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1800	RAF
1,4-Dichlorobenzene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1800	RAF
1,2-Dichlorobenzene	<1.0	1.0	ug/L		09/12/25 0000	09/12/25 1800	RAF
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L		09/12/25 0000	09/12/25 1800	RAF
Surrogate: Dibromofluoromethane	96.8	Limit: 75-136	% Rec		09/12/25 0000	09/12/25 1800	RAF
Surrogate: Dibromofluoromethane	96.8	Limit: 57-128	% Rec		09/12/25 0000	09/12/25 1800	RAF
Surrogate: 1,2-Dichloroethane-d4	100	Limit: 61-142	% Rec		09/12/25 0000	09/12/25 1800	RAF
Surrogate: 1,2-Dichloroethane-d4	100	Limit: 49-135	% Rec		09/12/25 0000	09/12/25 1800	RAF
Surrogate: Toluene-d8	99.6	Limit: 82-116	% Rec		09/12/25 0000	09/12/25 1800	RAF
Surrogate: Toluene-d8	99.6	Limit: 82-121	% Rec		09/12/25 0000	09/12/25 1800	RAF
Surrogate: 4-Bromofluorobenzene	96.2	Limit: 77-114	% Rec		09/12/25 0000	09/12/25 1800	RAF
Surrogate: 4-Bromofluorobenzene	96.2	Limit: 80-116	% Rec		09/12/25 0000	09/12/25 1800	RAF

Metals Total by ICPMS	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A							
Antimony	<0.0010	0.0010	mg/L		09/12/25 1653	09/15/25 2336	RVV
Arsenic	<0.0020	0.0020	mg/L		09/12/25 1653	09/15/25 2336	RVV
Barium	0.203	0.0010	mg/L		09/12/25 1653	09/15/25 2336	RVV
Beryllium	<0.0005	0.0005	mg/L		09/12/25 1653	09/15/25 2336	RVV
Cadmium	0.0002	0.0002	mg/L		09/12/25 1653	09/15/25 2336	RVV
Chromium	0.0034	0.0010	mg/L		09/12/25 1653	09/15/25 2336	RVV
Cobalt	0.0008	0.0005	mg/L		09/12/25 1653	09/15/25 2336	RVV
Copper	<0.0050	0.0050	mg/L		09/12/25 1653	09/15/25 2336	RVV
Lead	<0.0010	0.0010	mg/L		09/12/25 1653	09/15/25 2336	RVV
Nickel	<0.0050	0.0050	mg/L		09/12/25 1653	09/15/25 2336	RVV
Selenium	0.0046	0.0020	mg/L		09/12/25 1653	09/15/25 2336	RVV
Silver	<0.0050	0.0050	mg/L		09/12/25 1653	09/15/25 2336	RVV
Thallium	<0.0005	0.0005	mg/L		09/12/25 1653	09/15/25 2336	RVV
Vanadium	<0.0020	0.0020	mg/L		09/12/25 1653	09/15/25 2336	RVV
Zinc	0.0111	0.0050	mg/L		09/12/25 1653	09/15/25 2336	RVV

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CERTIFICATE OF ANALYSIS

111028

Client Sample ID: MW06-39
Sample Matrix: Aqueous
Lab Sample ID: 111028-18

Collected By: Whipple, Todd
Collection Date: 09/09/2025 14:45

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 5030B/EPA 8260D							
Chloromethane	<1.0	1.0	ug/L		09/15/25 0000	09/15/25 1441	RAF
Vinyl Chloride	<1.0	1.0	ug/L		09/15/25 0000	09/15/25 1441	RAF
Bromomethane	<1.0	1.0	ug/L		09/15/25 0000	09/15/25 1441	RAF
Chloroethane	<1.0	1.0	ug/L		09/15/25 0000	09/15/25 1441	RAF
Trichlorofluoromethane	<1.0	1.0	ug/L		09/15/25 0000	09/15/25 1441	RAF
1,1-Dichloroethylene	<1.0	1.0	ug/L		09/15/25 0000	09/15/25 1441	RAF
Acetone	<10.0	10.0	ug/L		09/15/25 0000	09/15/25 1441	RAF
Methyl Iodide	<1.0	1.0	ug/L		09/15/25 0000	09/15/25 1441	RAF
Carbon Disulfide	<1.0	1.0	ug/L		09/15/25 0000	09/15/25 1441	RAF
Methylene Chloride	<5.0	5.0	ug/L		09/15/25 0000	09/15/25 1441	RAF
Acrylonitrile	<5.0	5.0	ug/L		09/15/25 0000	09/15/25 1441	RAF
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L		09/15/25 0000	09/15/25 1441	RAF
1,1-Dichloroethane	<1.0	1.0	ug/L		09/15/25 0000	09/15/25 1441	RAF
Vinyl Acetate	<5.0	5.0	ug/L		09/15/25 0000	09/15/25 1441	RAF
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L		09/15/25 0000	09/15/25 1441	RAF
2-Butanone (MEK)	<10.0	10.0	ug/L		09/15/25 0000	09/15/25 1441	RAF
Bromochloromethane	<1.0	1.0	ug/L		09/15/25 0000	09/15/25 1441	RAF
Chloroform	<1.0	1.0	ug/L		09/15/25 0000	09/15/25 1441	RAF
1,1,1-Trichloroethane	<1.0	1.0	ug/L		09/15/25 0000	09/15/25 1441	RAF
Carbon Tetrachloride	<1.0	1.0	ug/L		09/15/25 0000	09/15/25 1441	RAF
Benzene	<1.0	1.0	ug/L		09/15/25 0000	09/15/25 1441	RAF
1,2-Dichloroethane	<1.0	1.0	ug/L		09/15/25 0000	09/15/25 1441	RAF
Trichloroethylene	<1.0	1.0	ug/L		09/15/25 0000	09/15/25 1441	RAF
1,2-Dichloropropane	<1.0	1.0	ug/L		09/15/25 0000	09/15/25 1441	RAF
Dibromomethane	<1.0	1.0	ug/L		09/15/25 0000	09/15/25 1441	RAF
Bromodichloromethane	<1.0	1.0	ug/L		09/15/25 0000	09/15/25 1441	RAF
cis-1,3-Dichloropropene	<1.0	1.0	ug/L		09/15/25 0000	09/15/25 1441	RAF
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L		09/15/25 0000	09/15/25 1441	RAF
Toluene	<1.0	1.0	ug/L		09/15/25 0000	09/15/25 1441	RAF
trans-1,3-Dichloropropene	<1.0	1.0	ug/L		09/15/25 0000	09/15/25 1441	RAF
1,1,2-Trichloroethane	<1.0	1.0	ug/L		09/15/25 0000	09/15/25 1441	RAF
Tetrachloroethylene	<1.0	1.0	ug/L		09/15/25 0000	09/15/25 1441	RAF
2-Hexanone (MBK)	<5.0	5.0	ug/L		09/15/25 0000	09/15/25 1441	RAF
Dibromochloromethane	<1.0	1.0	ug/L		09/15/25 0000	09/15/25 1441	RAF
1,2-Dibromoethane	<1.0	1.0	ug/L		09/15/25 0000	09/15/25 1441	RAF
Chlorobenzene	<1.0	1.0	ug/L		09/15/25 0000	09/15/25 1441	RAF
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L		09/15/25 0000	09/15/25 1441	RAF
Ethylbenzene	<1.0	1.0	ug/L		09/15/25 0000	09/15/25 1441	RAF
Xylenes, total	<2.0	2.0	ug/L		09/15/25 0000	09/15/25 1441	RAF
Styrene	<1.0	1.0	ug/L		09/15/25 0000	09/15/25 1441	RAF
Bromoform	<1.0	1.0	ug/L		09/15/25 0000	09/15/25 1441	RAF
1,2,3-Trichloropropane	<1.0	1.0	ug/L		09/15/25 0000	09/15/25 1441	RAF

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CERTIFICATE OF ANALYSIS

111028

Client Sample ID: MW06-39
Sample Matrix: Aqueous
Lab Sample ID: 111028-18

Collected By: Whipple, Todd
Collection Date: 09/09/2025 14:45

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst
trans-1,4-Dichloro-2-butene	<5.0	5.0	ug/L		09/15/25 0000	09/15/25 1441	RAF
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L		09/15/25 0000	09/15/25 1441	RAF
1,4-Dichlorobenzene	<1.0	1.0	ug/L		09/15/25 0000	09/15/25 1441	RAF
1,2-Dichlorobenzene	<1.0	1.0	ug/L		09/15/25 0000	09/15/25 1441	RAF
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L		09/15/25 0000	09/15/25 1441	RAF
Surrogate: Dibromofluoromethane	106	Limit: 75-136	% Rec		09/15/25 0000	09/15/25 1441	RAF
Surrogate: Dibromofluoromethane	106	Limit: 57-128	% Rec		09/15/25 0000	09/15/25 1441	RAF
Surrogate: 1,2-Dichloroethane-d4	99.7	Limit: 61-142	% Rec		09/15/25 0000	09/15/25 1441	RAF
Surrogate: 1,2-Dichloroethane-d4	99.7	Limit: 49-135	% Rec		09/15/25 0000	09/15/25 1441	RAF
Surrogate: Toluene-d8	99.4	Limit: 82-121	% Rec		09/15/25 0000	09/15/25 1441	RAF
Surrogate: Toluene-d8	99.4	Limit: 82-116	% Rec		09/15/25 0000	09/15/25 1441	RAF
Surrogate: 4-Bromofluorobenzene	91.8	Limit: 77-114	% Rec		09/15/25 0000	09/15/25 1441	RAF
Surrogate: 4-Bromofluorobenzene	91.8	Limit: 80-116	% Rec		09/15/25 0000	09/15/25 1441	RAF

Metals Total by ICPMS	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A							
Antimony	<0.0010	0.0010	mg/L		09/12/25 1653	09/15/25 2343	RVV
Arsenic	<0.0020	0.0020	mg/L		09/12/25 1653	09/15/25 2343	RVV
Barium	0.159	0.0010	mg/L		09/12/25 1653	09/15/25 2343	RVV
Beryllium	<0.0005	0.0005	mg/L		09/12/25 1653	09/15/25 2343	RVV
Cadmium	0.0002	0.0002	mg/L		09/12/25 1653	09/15/25 2343	RVV
Chromium	0.0012	0.0010	mg/L		09/12/25 1653	09/15/25 2343	RVV
Cobalt	<0.0005	0.0005	mg/L		09/12/25 1653	09/15/25 2343	RVV
Copper	<0.0050	0.0050	mg/L		09/12/25 1653	09/15/25 2343	RVV
Lead	<0.0010	0.0010	mg/L		09/12/25 1653	09/15/25 2343	RVV
Nickel	<0.0050	0.0050	mg/L		09/12/25 1653	09/15/25 2343	RVV
Selenium	0.0025	0.0020	mg/L		09/12/25 1653	09/15/25 2343	RVV
Silver	<0.0050	0.0050	mg/L		09/12/25 1653	09/15/25 2343	RVV
Thallium	<0.0005	0.0005	mg/L		09/12/25 1653	09/15/25 2343	RVV
Vanadium	<0.0020	0.0020	mg/L		09/12/25 1653	09/15/25 2343	RVV
Zinc	0.0085	0.0050	mg/L		09/12/25 1653	09/15/25 2343	RVV

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CERTIFICATE OF ANALYSIS

1111028

Client Sample ID: Field Duplicate

Sample Matrix: Aqueous

Lab Sample ID: 1111028-19

Collected By: Whipple, Todd

Collection Date: 09/09/2025

Metals Total by ICPMS	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 3005A/EPA 6020A							
Antimony	<0.0010	0.0010	mg/L		09/12/25 1653	09/15/25 2346	RVV
Arsenic	0.0068	0.0020	mg/L		09/12/25 1653	09/15/25 2346	RVV
Barium	0.0874	0.0010	mg/L		09/12/25 1653	09/15/25 2346	RVV
Beryllium	<0.0005	0.0005	mg/L		09/12/25 1653	09/15/25 2346	RVV
Cadmium	<0.0002	0.0002	mg/L		09/12/25 1653	09/15/25 2346	RVV
Chromium	0.0010	0.0010	mg/L		09/12/25 1653	09/15/25 2346	RVV
Cobalt	0.0134	0.0005	mg/L		09/12/25 1653	09/15/25 2346	RVV
Copper	<0.0050	0.0050	mg/L		09/12/25 1653	09/15/25 2346	RVV
Lead	<0.0010	0.0010	mg/L		09/12/25 1653	09/15/25 2346	RVV
Nickel	0.0272	0.0050	mg/L		09/12/25 1653	09/15/25 2346	RVV
Selenium	<0.0020	0.0020	mg/L		09/12/25 1653	09/15/25 2346	RVV
Silver	<0.0050	0.0050	mg/L		09/12/25 1653	09/15/25 2346	RVV
Thallium	<0.0005	0.0005	mg/L		09/12/25 1653	09/15/25 2346	RVV
Vanadium	<0.0020	0.0020	mg/L		09/12/25 1653	09/15/25 2346	RVV
Zinc	<0.0050	0.0050	mg/L		09/12/25 1653	09/15/25 2346	RVV

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CERTIFICATE OF ANALYSIS

111028

Batch Log Summary

Method	Batch	Laboratory ID	Client / Source ID
EPA 8260D	1110774	1110774-BS1	
		1110774-BSD1	
		1110774-BLK1	
		111028-01	MW91-8
		111028-02	MW02-15A
		111028-03	MW98-28
		111028-04	MW02-30A
		111028-05	MW88-2
		111028-06	MW94-18
		111028-07	MW09-40
		111028-08	MW91-10
		111028-09	MW96-21R
		111028-10	MW96-24
		111028-11	MW88-3
		111028-12	MW96-23
		111028-13	MW21-43
		111028-14	GU-4
		111028-15	MW98-25
		111028-15	MW98-25
		111028-16	MW06-37
		111028-17	MW06-38
		1110774-MS1	1110767-08
		1110774-MSD1	1110767-08
Method	Batch	Laboratory ID	Client / Source ID
EPA 6020A	1110792	1110792-BLK1	
		1110792-BS1	
		111028-01	MW91-8
		1110792-MS1	111028-01
		1110792-MSD1	111028-01
		1110792-PS1	111028-01
		111028-02	MW02-15A
		111028-03	MW98-28
		111028-04	MW02-30A
		111028-05	MW88-2
		111028-06	MW94-18
		111028-07	MW09-40
		111028-08	MW91-10
		111028-09	MW96-21R
		111028-10	MW96-24
		111028-11	MW88-3
		111028-12	MW96-23
		111028-13	MW21-43
		111028-14	GU-4
		111028-15	MW98-25
		111028-16	MW06-37
		111028-17	MW06-38
		111028-18	MW06-39
		111028-19	Field Duplicate
Method	Batch	Laboratory ID	Client / Source ID

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CERTIFICATE OF ANALYSIS

11I1028

Method	Batch	Laboratory ID	Client / Source ID
EPA 8260D	11I0883	11I0883-BS1	
		11I0883-BSD1	
		11I0883-BLK1	
		11I1028-18	MW06-39
		11I0883-MS1	11I1028-18
		11I0883-MSD1	11I1028-18
Method	Batch	Laboratory ID	Client / Source ID
EPA 6020A	11I0971	11I0971-BLK1	
		11I0971-BS1	
		11I1028-01RE1	MW91-8
		11I1028-01RE1	MW91-8
		11I0971-MS1	11I1028-06RE1
		11I0971-MSD1	11I1028-06RE1
EPA 6020A	11I1450	11I0971-PS1	11I1028-06RE1
		11I1450-BLK1	
		11I1450-BS1	
		11I1450-MS1	11I1940-01
		11I1450-MSD1	11I1940-01
		11I1450-PS1	11I1940-01

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 11I0774 - EPA 5030B - EPA 8260D										
Blank (11I0774-BLK1)				Prepared: 09/12/25 00:00 Analyzed: 09/12/25 10:22						
Dichlorodifluoromethane	<1.0	1.0	ug/L							
Chloromethane	<1.0	1.0	ug/L							
Vinyl Chloride	<1.0	1.0	ug/L							
Bromomethane	<1.0	1.0	ug/L							
Chloroethane	<1.0	1.0	ug/L							
Trichlorofluoromethane	<1.0	1.0	ug/L							
1,1-Dichloroethylene	<1.0	1.0	ug/L							
Acetone	<10.0	10.0	ug/L							
Methyl Iodide	<1.0	1.0	ug/L							
Carbon Disulfide	<1.0	1.0	ug/L							
Methylene Chloride	<5.0	5.0	ug/L							
Acrylonitrile	<5.0	5.0	ug/L							
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L							
1,1-Dichloroethane	<1.0	1.0	ug/L							
Vinyl Acetate	<5.0	5.0	ug/L							
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L							
2-Butanone (MEK)	<10.0	10.0	ug/L							
Bromochloromethane	<1.0	1.0	ug/L							
Chloroform	<1.0	1.0	ug/L							
1,1,1-Trichloroethane	<1.0	1.0	ug/L							

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CERTIFICATE OF ANALYSIS

11I1028

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 11I0774 - EPA 5030B - EPA 8260D										
Blank (11I0774-BLK1)										
Prepared: 09/12/25 00:00 Analyzed: 09/12/25 10:22										
Carbon Tetrachloride	<1.0	1.0	ug/L							
Benzene	<1.0	1.0	ug/L							
1,2-Dichloroethane	<1.0	1.0	ug/L							
Trichloroethylene	<1.0	1.0	ug/L							
1,2-Dichloropropane	<1.0	1.0	ug/L							
Dibromomethane	<1.0	1.0	ug/L							
Bromodichloromethane	<1.0	1.0	ug/L							
cis-1,3-Dichloropropene	<1.0	1.0	ug/L							
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L							
Toluene	<1.0	1.0	ug/L							
trans-1,3-Dichloropropene	<1.0	1.0	ug/L							
1,1,2-Trichloroethane	<1.0	1.0	ug/L							
Tetrachloroethylene	<1.0	1.0	ug/L							
2-Hexanone (MBK)	<5.0	5.0	ug/L							
Dibromochloromethane	<1.0	1.0	ug/L							
1,2-Dibromoethane	<1.0	1.0	ug/L							
Chlorobenzene	<1.0	1.0	ug/L							
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L							
Ethylbenzene	<1.0	1.0	ug/L							
Xylenes, total	<2.0	2.0	ug/L							
Styrene	<1.0	1.0	ug/L							
Bromoform	<1.0	1.0	ug/L							
1,2,3-Trichloropropane	<1.0	1.0	ug/L							
trans-1,4-Dichloro-2-butene	<5.0	5.0	ug/L							
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L							
1,4-Dichlorobenzene	<1.0	1.0	ug/L							
1,2-Dichlorobenzene	<1.0	1.0	ug/L							
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L							
Surrogate: Dibromofluoromethane	48.1		ug/L	50.2		95.8	57-128			
Surrogate: Dibromofluoromethane	48.1		ug/L	50.2		95.8	75-136			
Surrogate: 1,2-Dichloroethane-d4	48.2		ug/L	50.4		95.7	49-135			
Surrogate: 1,2-Dichloroethane-d4	48.2		ug/L	50.4		95.7	61-142			
Surrogate: Toluene-d8	49.1		ug/L	50.5		97.3	82-116			
Surrogate: Toluene-d8	49.1		ug/L	50.5		97.3	82-121			
Surrogate: 4-Bromofluorobenzene	45.7		ug/L	50.2		91.0	77-114			
Surrogate: 4-Bromofluorobenzene	45.7		ug/L	50.2		91.0	80-116			
LCS (11I0774-BS1)										
Prepared: 09/12/25 00:00 Analyzed: 09/12/25 09:13										
Dichlorodifluoromethane	39.54	1.0	ug/L	30.3		131	55-141			
Chloromethane	33.12	1.0	ug/L	30.3		109	63-155			
Vinyl Chloride	32.45	1.0	ug/L	30.2		107	70-154			
Bromomethane	27.98	1.0	ug/L	30.1		92.9	52-176			
Chloroethane	29.49	1.0	ug/L	30.3		97.3	72-148			
Trichlorofluoromethane	29.60	1.0	ug/L	30.3		97.7	70-152			

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CERTIFICATE OF ANALYSIS

111028

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1110774 - EPA 5030B - EPA 8260D										
LCS (1110774-BS1)				Prepared: 09/12/25 00:00 Analyzed: 09/12/25 09:13						
1,1-Dichloroethylene	51.62	1.0	ug/L	50.1		103	70-148			
Acetone	82.03	10.0	ug/L	100		82.0	43-172			
Methyl Iodide	93.15	1.0	ug/L	100		93.2	69-170			
Carbon Disulfide	105.9	1.0	ug/L	100		106	72-162			
Methylene Chloride	46.90	5.0	ug/L	50.1		93.6	68-142			
Acrylonitrile	87.54	5.0	ug/L	50.4		174	33-163			Q2
trans-1,2-Dichloroethylene	49.48	1.0	ug/L	50.1		98.8	66-148			
1,1-Dichloroethane	51.45	1.0	ug/L	50.1		103	66-143			
Vinyl Acetate	163.8	5.0	ug/L	131		125	43-153			
cis-1,2-Dichloroethylene	49.28	1.0	ug/L	50.4		97.9	71-149			
2-Butanone (MEK)	95.83	10.0	ug/L	100		95.8	52-159			
Bromochloromethane	48.78	1.0	ug/L	50.4		96.8	69-143			
Chloroform	49.18	1.0	ug/L	50.1		98.2	69-144			
1,1,1-Trichloroethane	51.16	1.0	ug/L	50.1		102	62-129			
Carbon Tetrachloride	54.13	1.0	ug/L	50.1		108	63-141			
Benzene	50.55	1.0	ug/L	50.4		100	71-134			
1,2-Dichloroethane	52.28	1.0	ug/L	50.1		104	72-132			
Trichloroethylene	53.52	1.0	ug/L	50.1		107	71-135			
1,2-Dichloropropane	52.42	1.0	ug/L	50.1		105	69-136			
Dibromomethane	48.60	1.0	ug/L	50.4		96.5	73-147			
Bromodichloromethane	52.99	1.0	ug/L	50.1		106	68-129			
cis-1,3-Dichloropropene	53.59	1.0	ug/L	50.1		107	65-134			
4-Methyl-2-pentanone (MIBK)	104.0	5.0	ug/L	100		104	58-147			
Toluene	49.18	1.0	ug/L	50.5		97.4	72-133			
trans-1,3-Dichloropropene	57.07	1.0	ug/L	50.1		114	67-130			
1,1,2-Trichloroethane	49.87	1.0	ug/L	50.1		99.6	69-135			
Tetrachloroethylene	52.99	1.0	ug/L	50.1		106	69-130			
2-Hexanone (MBK)	101.4	5.0	ug/L	100		101	55-144			
Dibromochloromethane	52.87	1.0	ug/L	50.1		106	73-127			
1,2-Dibromoethane	52.50	1.0	ug/L	50.2		105	67-132			
Chlorobenzene	50.79	1.0	ug/L	50.1		101	72-123			
1,1,1,2-Tetrachloroethane	50.58	1.0	ug/L	50.3		100	73-127			
Ethylbenzene	49.87	1.0	ug/L	50.2		99.4	71-127			
Xylenes, total	152.5	2.0	ug/L	151		101	74-127			
Styrene	53.43	1.0	ug/L	50.4		106	66-126			
Bromoform	57.88	1.0	ug/L	50.1		115	68-130			
1,2,3-Trichloropropane	53.79	1.0	ug/L	50.3		107	63-136			
trans-1,4-Dichloro-2-butene	111.5	5.0	ug/L	100		111	54-134			
1,1,2,2-Tetrachloroethane	48.22	1.0	ug/L	50.1		96.2	61-131			
1,4-Dichlorobenzene	46.99	1.0	ug/L	50.1		93.7	70-129			
1,2-Dichlorobenzene	51.32	1.0	ug/L	50.1		102	69-126			
1,2-Dibromo-3-chloropropane	52.10	5.0	ug/L	50.1		104	50-143			

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CERTIFICATE OF ANALYSIS

11I1028

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 11I0774 - EPA 5030B - EPA 8260D										
LCS (11I0774-BS1)										
				Prepared: 09/12/25 00:00 Analyzed: 09/12/25 09:13						
Surrogate: Dibromofluoromethane	49.7		ug/L	50.2		99.0	57-128			
Surrogate: Dibromofluoromethane	49.7		ug/L	50.2		99.0	75-136			
Surrogate: 1,2-Dichloroethane-d4	49.0		ug/L	50.4		97.4	49-135			
Surrogate: 1,2-Dichloroethane-d4	49.0		ug/L	50.4		97.4	61-142			
Surrogate: Toluene-d8	50.8		ug/L	50.5		101	82-116			
Surrogate: Toluene-d8	50.8		ug/L	50.5		101	82-121			
Surrogate: 4-Bromofluorobenzene	51.0		ug/L	50.2		102	77-114			
Surrogate: 4-Bromofluorobenzene	51.0		ug/L	50.2		102	80-116			
LCS Dup (11I0774-BSD1)										
				Prepared: 09/12/25 00:00 Analyzed: 09/12/25 09:36						
Dichlorodifluoromethane	42.84	1.0	ug/L	30.3		141	55-141	8.01	24	
Chloromethane	33.67	1.0	ug/L	30.3		111	63-155	1.65	24	
Vinyl Chloride	33.64	1.0	ug/L	30.2		111	70-154	3.60	25	
Bromomethane	28.31	1.0	ug/L	30.1		94.0	52-176	1.17	27	
Chloroethane	29.80	1.0	ug/L	30.3		98.3	72-148	1.05	25	
Trichlorofluoromethane	32.27	1.0	ug/L	30.3		106	70-152	8.63	26	
1,1-Dichloroethylene	54.03	1.0	ug/L	50.1		108	70-148	4.56	24	
Acetone	81.18	10.0	ug/L	100		81.2	43-172	1.04	30	
Methyl Iodide	96.85	1.0	ug/L	100		96.8	69-170	3.89	30	
Carbon Disulfide	109.6	1.0	ug/L	100		110	72-162	3.49	24	
Methylene Chloride	48.40	5.0	ug/L	50.1		96.6	68-142	3.15	21	
Acrylonitrile	88.38	5.0	ug/L	50.4		176	33-163	0.955	28	Q2
trans-1,2-Dichloroethylene	50.02	1.0	ug/L	50.1		99.9	66-148	1.09	27	
1,1-Dichloroethane	52.48	1.0	ug/L	50.1		105	66-143	1.98	24	
Vinyl Acetate	164.5	5.0	ug/L	131		126	43-153	0.408	30	
cis-1,2-Dichloroethylene	47.51	1.0	ug/L	50.4		94.4	71-149	3.66	26	
2-Butanone (MEK)	102.4	10.0	ug/L	100		102	52-159	6.67	27	
Bromochloromethane	50.02	1.0	ug/L	50.4		99.2	69-143	2.51	23	
Chloroform	49.46	1.0	ug/L	50.1		98.8	69-144	0.568	23	
1,1,1-Trichloroethane	52.53	1.0	ug/L	50.1		105	62-129	2.64	24	
Carbon Tetrachloride	54.33	1.0	ug/L	50.1		108	63-141	0.369	25	
Benzene	52.90	1.0	ug/L	50.4		105	71-134	4.54	24	
1,2-Dichloroethane	54.30	1.0	ug/L	50.1		108	72-132	3.79	24	
Trichloroethylene	55.82	1.0	ug/L	50.1		111	71-135	4.21	24	
1,2-Dichloropropane	54.48	1.0	ug/L	50.1		109	69-136	3.85	24	
Dibromomethane	49.45	1.0	ug/L	50.4		98.2	73-147	1.73	25	
Bromodichloromethane	54.06	1.0	ug/L	50.1		108	68-129	2.00	22	
cis-1,3-Dichloropropene	54.89	1.0	ug/L	50.1		110	65-134	2.40	23	
4-Methyl-2-pentanone (MIBK)	105.2	5.0	ug/L	100		105	58-147	1.14	27	
Toluene	51.92	1.0	ug/L	50.5		103	72-133	5.42	24	
trans-1,3-Dichloropropene	57.70	1.0	ug/L	50.1		115	67-130	1.10	24	
1,1,2-Trichloroethane	49.86	1.0	ug/L	50.1		99.5	69-135	0.0201	23	
Tetrachloroethylene	55.50	1.0	ug/L	50.1		111	69-130	4.63	25	
2-Hexanone (MBK)	100.8	5.0	ug/L	100		101	55-144	0.643	25	

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CERTIFICATE OF ANALYSIS

11I1028

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 11I0774 - EPA 5030B - EPA 8260D										
LCS Dup (11I0774-BSD1)				Prepared: 09/12/25 00:00 Analyzed: 09/12/25 09:36						
Dibromochloromethane	53.07	1.0	ug/L	50.1		106	73-127	0.378	22	
1,2-Dibromoethane	52.03	1.0	ug/L	50.2		104	67-132	0.899	24	
Chlorobenzene	51.22	1.0	ug/L	50.1		102	72-123	0.843	23	
1,1,1,2-Tetrachloroethane	55.22	1.0	ug/L	50.3		110	73-127	8.77	24	
Ethylbenzene	51.28	1.0	ug/L	50.2		102	71-127	2.79	26	
Xylenes, total	154.7	2.0	ug/L	151		102	74-127	1.39	25	
Styrene	52.75	1.0	ug/L	50.4		105	66-126	1.28	23	
Bromoform	58.83	1.0	ug/L	50.1		117	68-130	1.63	23	
1,2,3-Trichloropropane	55.92	1.0	ug/L	50.3		111	63-136	3.88	24	
trans-1,4-Dichloro-2-butene	108.3	5.0	ug/L	100		108	54-134	2.89	27	
1,1,2,2-Tetrachloroethane	48.16	1.0	ug/L	50.1		96.1	61-131	0.125	29	
1,4-Dichlorobenzene	47.53	1.0	ug/L	50.1		94.8	70-129	1.14	24	
1,2-Dichlorobenzene	50.97	1.0	ug/L	50.1		102	69-126	0.684	26	
1,2-Dibromo-3-chloropropane	52.81	5.0	ug/L	50.1		105	50-143	1.35	30	
Surrogate: Dibromofluoromethane	48.6		ug/L	50.2		96.7	57-128			
Surrogate: Dibromofluoromethane	48.6		ug/L	50.2		96.7	75-136			
Surrogate: 1,2-Dichloroethane-d4	48.5		ug/L	50.4		96.3	49-135			
Surrogate: 1,2-Dichloroethane-d4	48.5		ug/L	50.4		96.3	61-142			
Surrogate: Toluene-d8	51.1		ug/L	50.5		101	82-116			
Surrogate: Toluene-d8	51.1		ug/L	50.5		101	82-121			
Surrogate: 4-Bromofluorobenzene	49.1		ug/L	50.2		97.8	77-114			
Surrogate: 4-Bromofluorobenzene	49.1		ug/L	50.2		97.8	80-116			
Matrix Spike (11I0774-MS1)				Source: 11I0767-08		Prepared: 09/12/25 00:00 Analyzed: 09/12/25 18:22				
Dichlorodifluoromethane	371.5	10.0	ug/L	303	ND	123	58-130			
Chloromethane	316.2	10.0	ug/L	303	ND	104	61-152			
Vinyl Chloride	301.1	10.0	ug/L	302	ND	99.5	66-149			
Bromomethane	289.2	10.0	ug/L	301	ND	96.0	43-171			
Chloroethane	295.1	10.0	ug/L	303	ND	97.3	69-148			
Trichlorofluoromethane	313.3	10.0	ug/L	303	ND	103	62-163			
1,1-Dichloroethylene	506.0	10.0	ug/L	501	ND	101	70-148			
Acetone	908.9	100	ug/L	1000	ND	90.9	45-173			
Methyl Iodide	787.7	10.0	ug/L	1000	ND	78.8	62-167			
Carbon Disulfide	1005	10.0	ug/L	1000	ND	100	71-163			
Methylene Chloride	477.4	50.0	ug/L	501	ND	95.3	69-140			
Acrylonitrile	887.2	50.0	ug/L	504	ND	176	32-159			M1
trans-1,2-Dichloroethylene	471.6	10.0	ug/L	501	ND	94.2	69-144			
1,1-Dichloroethane	496.0	10.0	ug/L	501	ND	99.0	70-138			
Vinyl Acetate	1511	50.0	ug/L	1310	ND	115	58-142			
cis-1,2-Dichloroethylene	469.0	10.0	ug/L	504	ND	93.1	68-151			
2-Butanone (MEK)	970.8	100	ug/L	1000	ND	97.1	50-160			
Bromochloromethane	478.5	10.0	ug/L	504	ND	94.9	65-143			
Chloroform	486.8	10.0	ug/L	501	ND	97.2	71-143			
1,1,1-Trichloroethane	501.8	10.0	ug/L	501	ND	100	63-133			

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CERTIFICATE OF ANALYSIS

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Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 11I0774 - EPA 5030B - EPA 8260D										
Matrix Spike (11I0774-MS1)	Source: 11I0767-08			Prepared: 09/12/25 00:00 Analyzed: 09/12/25 18:22						
Carbon Tetrachloride	507.2	10.0	ug/L	501	ND	101	63-142			
Benzene	510.4	10.0	ug/L	504	ND	101	69-133			
1,2-Dichloroethane	523.3	10.0	ug/L	501	ND	104	63-138			
Trichloroethylene	532.7	10.0	ug/L	501	ND	106	71-133			
1,2-Dichloropropane	522.2	10.0	ug/L	501	ND	104	69-132			
Dibromomethane	496.7	10.0	ug/L	504	ND	98.6	70-147			
Bromodichloromethane	542.3	10.0	ug/L	501	ND	108	67-130			
cis-1,3-Dichloropropene	518.8	10.0	ug/L	501	ND	104	61-126			
4-Methyl-2-pentanone (MIBK)	1024	50.0	ug/L	1000	ND	102	55-147			
Toluene	510.1	10.0	ug/L	505	ND	101	71-133			
trans-1,3-Dichloropropene	530.0	10.0	ug/L	501	ND	106	63-124			
1,1,2-Trichloroethane	516.3	10.0	ug/L	501	ND	103	69-133			
Tetrachloroethylene	556.0	10.0	ug/L	501	ND	111	70-124			
2-Hexanone (MBK)	975.7	50.0	ug/L	1000	ND	97.6	53-141			
Dibromochloromethane	511.0	10.0	ug/L	501	ND	102	74-122			
1,2-Dibromoethane	527.0	10.0	ug/L	502	ND	105	66-127			
Chlorobenzene	505.7	10.0	ug/L	501	ND	101	76-116			
1,1,1,2-Tetrachloroethane	538.9	10.0	ug/L	503	ND	107	77-121			
Ethylbenzene	522.1	10.0	ug/L	502	ND	104	73-124			
Xylenes, total	1559	20.0	ug/L	1510	ND	103	75-123			
Styrene	543.9	10.0	ug/L	504	ND	108	70-120			
Bromoform	562.4	10.0	ug/L	501	ND	112	70-124			
1,2,3-Trichloropropane	551.9	10.0	ug/L	503	ND	110	62-135			
trans-1,4-Dichloro-2-butene	1020	50.0	ug/L	1000	ND	102	50-120			
1,1,2,2-Tetrachloroethane	464.1	10.0	ug/L	501	ND	92.6	63-126			
1,4-Dichlorobenzene	466.0	10.0	ug/L	501	ND	93.0	72-119			
1,2-Dichlorobenzene	505.6	10.0	ug/L	501	ND	101	71-117			
1,2-Dibromo-3-chloropropane	470.6	50.0	ug/L	501	ND	93.9	49-134			
Surrogate: Dibromofluoromethane	479		ug/L	502		95.5	57-128			
Surrogate: Dibromofluoromethane	479		ug/L	502		95.5	75-136			
Surrogate: 1,2-Dichloroethane-d4	484		ug/L	504		96.1	49-135			
Surrogate: 1,2-Dichloroethane-d4	484		ug/L	504		96.1	61-142			
Surrogate: Toluene-d8	505		ug/L	505		100	82-116			
Surrogate: Toluene-d8	505		ug/L	505		100	82-121			
Surrogate: 4-Bromofluorobenzene	500		ug/L	502		99.6	77-114			
Surrogate: 4-Bromofluorobenzene	500		ug/L	502		99.6	80-116			
Matrix Spike Dup (11I0774-MSD1)	Source: 11I0767-08			Prepared: 09/12/25 00:00 Analyzed: 09/12/25 18:45						
Dichlorodifluoromethane	398.3	10.0	ug/L	303	ND	132	58-130	6.96	30	M1
Chloromethane	319.3	10.0	ug/L	303	ND	105	61-152	0.976	26	
Vinyl Chloride	311.3	10.0	ug/L	302	ND	103	66-149	3.33	23	
Bromomethane	285.0	10.0	ug/L	301	ND	94.6	43-171	1.46	29	
Chloroethane	277.7	10.0	ug/L	303	ND	91.6	69-148	6.08	25	
Trichlorofluoromethane	312.5	10.0	ug/L	303	ND	103	62-163	0.256	25	

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CERTIFICATE OF ANALYSIS

111028

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1110774 - EPA 5030B - EPA 8260D										
Matrix Spike Dup (1110774-MSD1) Source: 1110767-08 Prepared: 09/12/25 00:00 Analyzed: 09/12/25 18:45										
1,1-Dichloroethylene	507.1	10.0	ug/L	501	ND	101	70-148	0.217	22	
Acetone	880.6	100	ug/L	1000	ND	88.1	45-173	3.16	30	
Methyl Iodide	848.6	10.0	ug/L	1000	ND	84.9	62-167	7.44	24	
Carbon Disulfide	982.5	10.0	ug/L	1000	ND	98.2	71-163	2.24	22	
Methylene Chloride	461.2	50.0	ug/L	501	ND	92.0	69-140	3.45	19	
Acrylonitrile	888.3	50.0	ug/L	504	ND	176	32-159	0.124	30	M1
trans-1,2-Dichloroethylene	470.4	10.0	ug/L	501	ND	93.9	69-144	0.255	22	
1,1-Dichloroethane	500.1	10.0	ug/L	501	ND	99.8	70-138	0.823	20	
Vinyl Acetate	1544	50.0	ug/L	1310	ND	118	58-142	2.13	24	
cis-1,2-Dichloroethylene	440.8	10.0	ug/L	504	ND	87.5	68-151	6.20	22	
2-Butanone (MEK)	1011	100	ug/L	1000	ND	101	50-160	4.05	23	
Bromochloromethane	475.7	10.0	ug/L	504	ND	94.4	65-143	0.587	22	
Chloroform	474.0	10.0	ug/L	501	ND	94.6	71-143	2.66	21	
1,1,1-Trichloroethane	490.1	10.0	ug/L	501	ND	97.8	63-133	2.36	23	
Carbon Tetrachloride	524.8	10.0	ug/L	501	ND	105	63-142	3.41	22	
Benzene	495.0	10.0	ug/L	504	ND	98.1	69-133	3.06	18	
1,2-Dichloroethane	512.6	10.0	ug/L	501	ND	102	63-138	2.07	20	
Trichloroethylene	512.3	10.0	ug/L	501	ND	102	71-133	3.90	23	
1,2-Dichloropropane	504.1	10.0	ug/L	501	ND	101	69-132	3.53	20	
Dibromomethane	488.2	10.0	ug/L	504	ND	96.9	70-147	1.73	22	
Bromodichloromethane	527.6	10.0	ug/L	501	ND	105	67-130	2.75	21	
cis-1,3-Dichloropropene	509.5	10.0	ug/L	501	ND	102	61-126	1.81	21	
4-Methyl-2-pentanone (MIBK)	997.4	50.0	ug/L	1000	ND	99.7	55-147	2.60	23	
Toluene	485.0	10.0	ug/L	505	ND	96.1	71-133	5.04	19	
trans-1,3-Dichloropropene	550.5	10.0	ug/L	501	ND	110	63-124	3.79	21	
1,1,2-Trichloroethane	487.9	10.0	ug/L	501	ND	97.4	69-133	5.66	19	
Tetrachloroethylene	544.6	10.0	ug/L	501	ND	109	70-124	2.07	24	
2-Hexanone (MBK)	989.1	50.0	ug/L	1000	ND	98.9	53-141	1.36	24	
Dibromochloromethane	503.5	10.0	ug/L	501	ND	101	74-122	1.48	21	
1,2-Dibromoethane	496.9	10.0	ug/L	502	ND	98.9	66-127	5.88	23	
Chlorobenzene	494.1	10.0	ug/L	501	ND	98.7	76-116	2.32	21	
1,1,1,2-Tetrachloroethane	531.0	10.0	ug/L	503	ND	105	77-121	1.48	25	
Ethylbenzene	499.3	10.0	ug/L	502	ND	99.5	73-124	4.46	20	
Xylenes, total	1515	20.0	ug/L	1510	ND	100	75-123	2.85	20	
Styrene	528.3	10.0	ug/L	504	ND	105	70-120	2.91	23	
Bromoform	547.4	10.0	ug/L	501	ND	109	70-124	2.70	22	
1,2,3-Trichloropropane	521.0	10.0	ug/L	503	ND	103	62-135	5.76	28	
trans-1,4-Dichloro-2-butene	994.8	50.0	ug/L	1000	ND	99.5	50-120	2.47	26	
1,1,2,2-Tetrachloroethane	455.7	10.0	ug/L	501	ND	91.0	63-126	1.83	24	
1,4-Dichlorobenzene	452.6	10.0	ug/L	501	ND	90.3	72-119	2.92	24	
1,2-Dichlorobenzene	480.9	10.0	ug/L	501	ND	96.0	71-117	5.01	24	
1,2-Dibromo-3-chloropropane	474.1	50.0	ug/L	501	ND	94.6	49-134	0.741	28	

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CERTIFICATE OF ANALYSIS

11I1028

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch 11I0774 - EPA 5030B - EPA 8260D									
Matrix Spike Dup (11I0774-MSD1)		Source: 11I0767-08		Prepared: 09/12/25 00:00 Analyzed: 09/12/25 18:45					
Surrogate: Dibromofluoromethane	475		ug/L	502		94.6 57-128			
Surrogate: Dibromofluoromethane	475		ug/L	502		94.6 75-136			
Surrogate: 1,2-Dichloroethane-d4	488		ug/L	504		97.0 49-135			
Surrogate: 1,2-Dichloroethane-d4	488		ug/L	504		97.0 61-142			
Surrogate: Toluene-d8	494		ug/L	505		98.0 82-116			
Surrogate: Toluene-d8	494		ug/L	505		98.0 82-121			
Surrogate: 4-Bromofluorobenzene	500		ug/L	502		99.6 77-114			
Surrogate: 4-Bromofluorobenzene	500		ug/L	502		99.6 80-116			

Batch 11I0883 - EPA 5030B - EPA 8260D

Blank (11I0883-BLK1)		Prepared: 09/15/25 00:00 Analyzed: 09/15/25 11:16							
Chloromethane	<1.0	1.0	ug/L						
Vinyl Chloride	<1.0	1.0	ug/L						
Bromomethane	<1.0	1.0	ug/L						
Chloroethane	<1.0	1.0	ug/L						
Trichlorofluoromethane	<1.0	1.0	ug/L						
1,1-Dichloroethylene	<1.0	1.0	ug/L						
Acetone	<10.0	10.0	ug/L						
Methyl Iodide	<1.0	1.0	ug/L						
Carbon Disulfide	<1.0	1.0	ug/L						
Methylene Chloride	<5.0	5.0	ug/L						
Acrylonitrile	<5.0	5.0	ug/L						
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L						
1,1-Dichloroethane	<1.0	1.0	ug/L						
Vinyl Acetate	<5.0	5.0	ug/L						
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L						
2-Butanone (MEK)	<10.0	10.0	ug/L						
Bromochloromethane	<1.0	1.0	ug/L						
Chloroform	<1.0	1.0	ug/L						
1,1,1-Trichloroethane	<1.0	1.0	ug/L						
Carbon Tetrachloride	<1.0	1.0	ug/L						
Benzene	<1.0	1.0	ug/L						
1,2-Dichloroethane	<1.0	1.0	ug/L						
Trichloroethylene	<1.0	1.0	ug/L						
1,2-Dichloropropane	<1.0	1.0	ug/L						
Dibromomethane	<1.0	1.0	ug/L						
Bromodichloromethane	<1.0	1.0	ug/L						
cis-1,3-Dichloropropene	<1.0	1.0	ug/L						
4-Methyl-2-pentanone (MIBK)	<5.0	5.0	ug/L						
Toluene	<1.0	1.0	ug/L						
trans-1,3-Dichloropropene	<1.0	1.0	ug/L						
1,1,2-Trichloroethane	<1.0	1.0	ug/L						
Tetrachloroethylene	<1.0	1.0	ug/L						

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Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1110883 - EPA 5030B - EPA 8260D										
Blank (1110883-BLK1)				Prepared: 09/15/25 00:00 Analyzed: 09/15/25 11:16						
2-Hexanone (MBK)	<5.0	5.0	ug/L							
Dibromochloromethane	<1.0	1.0	ug/L							
1,2-Dibromoethane	<1.0	1.0	ug/L							
Chlorobenzene	<1.0	1.0	ug/L							
1,1,1,2-Tetrachloroethane	<1.0	1.0	ug/L							
Ethylbenzene	<1.0	1.0	ug/L							
Xylenes, total	<2.0	2.0	ug/L							
Styrene	<1.0	1.0	ug/L							
Bromoform	<1.0	1.0	ug/L							
1,2,3-Trichloropropane	<1.0	1.0	ug/L							
trans-1,4-Dichloro-2-butene	<5.0	5.0	ug/L							
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L							
1,4-Dichlorobenzene	<1.0	1.0	ug/L							
1,2-Dichlorobenzene	<1.0	1.0	ug/L							
1,2-Dibromo-3-chloropropane	<5.0	5.0	ug/L							
Surrogate: Dibromofluoromethane	48.6		ug/L	50.2		96.9	75-136			
Surrogate: Dibromofluoromethane	48.6		ug/L	50.2		96.9	57-128			
Surrogate: 1,2-Dichloroethane-d4	49.2		ug/L	50.4		97.6	49-135			
Surrogate: 1,2-Dichloroethane-d4	49.2		ug/L	50.4		97.6	61-142			
Surrogate: Toluene-d8	49.3		ug/L	50.5		97.8	82-121			
Surrogate: Toluene-d8	49.3		ug/L	50.5		97.8	82-116			
Surrogate: 4-Bromofluorobenzene	46.8		ug/L	50.2		93.4	77-114			
Surrogate: 4-Bromofluorobenzene	46.8		ug/L	50.2		93.4	80-116			
LCS (1110883-BS1)				Prepared: 09/15/25 00:00 Analyzed: 09/15/25 10:07						
Chloromethane	34.51	1.0	ug/L	30.3		114	63-155			
Vinyl Chloride	33.67	1.0	ug/L	30.2		111	70-154			
Bromomethane	29.00	1.0	ug/L	30.1		96.3	52-176			
Chloroethane	30.27	1.0	ug/L	30.3		99.8	72-148			
Trichlorofluoromethane	34.26	1.0	ug/L	30.3		113	70-152			
1,1-Dichloroethylene	56.03	1.0	ug/L	50.1		112	70-148			
Acetone	87.68	10.0	ug/L	100		87.7	43-172			
Methyl Iodide	95.45	1.0	ug/L	100		95.4	69-170			
Carbon Disulfide	110.6	1.0	ug/L	100		111	72-162			
Methylene Chloride	49.49	5.0	ug/L	50.1		98.8	68-142			
Acrylonitrile	86.56	5.0	ug/L	50.4		172	33-163			Q2
trans-1,2-Dichloroethylene	50.38	1.0	ug/L	50.1		101	66-148			
1,1-Dichloroethane	52.92	1.0	ug/L	50.1		106	66-143			
Vinyl Acetate	155.7	5.0	ug/L	131		119	43-153			
cis-1,2-Dichloroethylene	45.62	1.0	ug/L	50.4		90.6	71-149			
2-Butanone (MEK)	104.5	10.0	ug/L	100		104	52-159			
Bromochloromethane	50.63	1.0	ug/L	50.4		100	69-143			
Chloroform	50.64	1.0	ug/L	50.1		101	69-144			
1,1,1-Trichloroethane	52.69	1.0	ug/L	50.1		105	62-129			

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CERTIFICATE OF ANALYSIS

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Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 11I0883 - EPA 5030B - EPA 8260D										
LCS (11I0883-BS1)										
Prepared: 09/15/25 00:00 Analyzed: 09/15/25 10:07										
Carbon Tetrachloride	56.07	1.0	ug/L	50.1		112	63-141			
Benzene	49.74	1.0	ug/L	50.4		98.6	71-134			
1,2-Dichloroethane	54.13	1.0	ug/L	50.1		108	72-132			
Trichloroethylene	55.03	1.0	ug/L	50.1		110	71-135			
1,2-Dichloropropane	50.71	1.0	ug/L	50.1		101	69-136			
Dibromomethane	47.04	1.0	ug/L	50.4		93.4	73-147			
Bromodichloromethane	55.76	1.0	ug/L	50.1		111	68-129			
cis-1,3-Dichloropropene	53.70	1.0	ug/L	50.1		107	65-134			
4-Methyl-2-pentanone (MIBK)	100.0	5.0	ug/L	100		100	58-147			
Toluene	49.46	1.0	ug/L	50.5		98.0	72-133			
trans-1,3-Dichloropropene	57.22	1.0	ug/L	50.1		114	67-130			
1,1,2-Trichloroethane	50.05	1.0	ug/L	50.1		99.9	69-135			
Tetrachloroethylene	55.48	1.0	ug/L	50.1		111	69-130			
2-Hexanone (MBK)	97.65	5.0	ug/L	100		97.6	55-144			
Dibromochloromethane	52.66	1.0	ug/L	50.1		105	73-127			
1,2-Dibromoethane	53.35	1.0	ug/L	50.2		106	67-132			
Chlorobenzene	49.82	1.0	ug/L	50.1		99.5	72-123			
1,1,1,2-Tetrachloroethane	53.90	1.0	ug/L	50.3		107	73-127			
Ethylbenzene	50.91	1.0	ug/L	50.2		101	71-127			
Xylenes, total	155.0	2.0	ug/L	151		103	74-127			
Styrene	52.47	1.0	ug/L	50.4		104	66-126			
Bromoform	57.11	1.0	ug/L	50.1		114	68-130			
1,2,3-Trichloropropane	53.11	1.0	ug/L	50.3		105	63-136			
trans-1,4-Dichloro-2-butene	104.1	5.0	ug/L	100		104	54-134			
1,1,2,2-Tetrachloroethane	44.21	1.0	ug/L	50.1		88.2	61-131			
1,4-Dichlorobenzene	44.61	1.0	ug/L	50.1		89.0	70-129			
1,2-Dichlorobenzene	47.61	1.0	ug/L	50.1		95.0	69-126			
1,2-Dibromo-3-chloropropane	47.55	5.0	ug/L	50.1		94.9	50-143			
Surrogate: Dibromofluoromethane	49.0		ug/L	50.2		97.6	57-128			
Surrogate: Dibromofluoromethane	49.0		ug/L	50.2		97.6	75-136			
Surrogate: 1,2-Dichloroethane-d4	48.9		ug/L	50.4		97.1	49-135			
Surrogate: 1,2-Dichloroethane-d4	48.9		ug/L	50.4		97.1	61-142			
Surrogate: Toluene-d8	48.9		ug/L	50.5		96.8	82-116			
Surrogate: Toluene-d8	48.9		ug/L	50.5		96.8	82-121			
Surrogate: 4-Bromofluorobenzene	52.0		ug/L	50.2		104	77-114			
Surrogate: 4-Bromofluorobenzene	52.0		ug/L	50.2		104	80-116			
LCS Dup (11I0883-BSD1)										
Prepared: 09/15/25 00:00 Analyzed: 09/15/25 10:30										
Chloromethane	33.08	1.0	ug/L	30.3		109	63-155	4.23	24	
Vinyl Chloride	32.66	1.0	ug/L	30.2		108	70-154	3.05	25	
Bromomethane	28.95	1.0	ug/L	30.1		96.1	52-176	0.173	27	
Chloroethane	29.57	1.0	ug/L	30.3		97.5	72-148	2.34	25	
Trichlorofluoromethane	33.73	1.0	ug/L	30.3		111	70-152	1.56	26	
1,1-Dichloroethylene	53.31	1.0	ug/L	50.1		106	70-148	4.98	24	

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Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1110883 - EPA 5030B - EPA 8260D										
LCS Dup (1110883-BSD1)				Prepared: 09/15/25 00:00 Analyzed: 09/15/25 10:30						
Acetone	92.20	10.0	ug/L	100		92.2	43-172	5.03	30	
Methyl Iodide	97.12	1.0	ug/L	100		97.1	69-170	1.73	30	
Carbon Disulfide	108.1	1.0	ug/L	100		108	72-162	2.29	24	
Methylene Chloride	49.86	5.0	ug/L	50.1		99.5	68-142	0.745	21	
Acrylonitrile	89.86	5.0	ug/L	50.4		178	33-163	3.74	28	Q2
trans-1,2-Dichloroethylene	48.85	1.0	ug/L	50.1		97.5	66-148	3.08	27	
1,1-Dichloroethane	50.49	1.0	ug/L	50.1		101	66-143	4.70	24	
Vinyl Acetate	153.8	5.0	ug/L	131		117	43-153	1.23	30	
cis-1,2-Dichloroethylene	47.25	1.0	ug/L	50.4		93.8	71-149	3.51	26	
2-Butanone (MEK)	103.8	10.0	ug/L	100		104	52-159	0.663	27	
Bromochloromethane	50.26	1.0	ug/L	50.4		99.7	69-143	0.733	23	
Chloroform	49.47	1.0	ug/L	50.1		98.8	69-144	2.34	23	
1,1,1-Trichloroethane	50.67	1.0	ug/L	50.1		101	62-129	3.91	24	
Carbon Tetrachloride	54.17	1.0	ug/L	50.1		108	63-141	3.45	25	
Benzene	50.10	1.0	ug/L	50.4		99.3	71-134	0.721	24	
1,2-Dichloroethane	51.75	1.0	ug/L	50.1		103	72-132	4.50	24	
Trichloroethylene	52.49	1.0	ug/L	50.1		105	71-135	4.72	24	
1,2-Dichloropropane	50.91	1.0	ug/L	50.1		102	69-136	0.394	24	
Dibromomethane	48.43	1.0	ug/L	50.4		96.2	73-147	2.91	25	
Bromodichloromethane	53.01	1.0	ug/L	50.1		106	68-129	5.06	22	
cis-1,3-Dichloropropene	53.94	1.0	ug/L	50.1		108	65-134	0.446	23	
4-Methyl-2-pentanone (MIBK)	103.5	5.0	ug/L	100		103	58-147	3.39	27	
Toluene	48.41	1.0	ug/L	50.5		95.9	72-133	2.15	24	
trans-1,3-Dichloropropene	56.97	1.0	ug/L	50.1		114	67-130	0.438	24	
1,1,2-Trichloroethane	49.87	1.0	ug/L	50.1		99.6	69-135	0.360	23	
Tetrachloroethylene	51.63	1.0	ug/L	50.1		103	69-130	7.19	25	
2-Hexanone (MBK)	101.3	5.0	ug/L	100		101	55-144	3.66	25	
Dibromochloromethane	53.07	1.0	ug/L	50.1		106	73-127	0.776	22	
1,2-Dibromoethane	50.52	1.0	ug/L	50.2		101	67-132	5.45	24	
Chlorobenzene	49.13	1.0	ug/L	50.1		98.1	72-123	1.39	23	
1,1,1,2-Tetrachloroethane	52.26	1.0	ug/L	50.3		104	73-127	3.09	24	
Ethylbenzene	50.00	1.0	ug/L	50.2		99.7	71-127	1.80	26	
Xylenes, total	150.0	2.0	ug/L	151		99.3	74-127	3.26	25	
Styrene	52.45	1.0	ug/L	50.4		104	66-126	0.0381	23	
Bromoform	56.19	1.0	ug/L	50.1		112	68-130	1.62	23	
1,2,3-Trichloropropane	51.85	1.0	ug/L	50.3		103	63-136	2.40	24	
trans-1,4-Dichloro-2-butene	105.0	5.0	ug/L	100		105	54-134	0.871	27	
1,1,2,2-Tetrachloroethane	44.54	1.0	ug/L	50.1		88.9	61-131	0.744	29	
1,4-Dichlorobenzene	44.97	1.0	ug/L	50.1		89.7	70-129	0.804	24	
1,2-Dichlorobenzene	46.48	1.0	ug/L	50.1		92.8	69-126	2.40	26	
1,2-Dibromo-3-chloropropane	47.36	5.0	ug/L	50.1		94.5	50-143	0.400	30	
Surrogate: Dibromofluoromethane	47.8		ug/L	50.2		95.2	57-128			

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CERTIFICATE OF ANALYSIS

11I1028

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 11I0883 - EPA 5030B - EPA 8260D										
LCS Dup (11I0883-BSD1)				Prepared: 09/15/25 00:00 Analyzed: 09/15/25 10:30						
Surrogate: Dibromofluoromethane	47.8		ug/L	50.2		95.2	75-136			
Surrogate: 1,2-Dichloroethane-d4	50.6		ug/L	50.4		100	49-135			
Surrogate: 1,2-Dichloroethane-d4	50.6		ug/L	50.4		100	61-142			
Surrogate: Toluene-d8	49.4		ug/L	50.5		97.8	82-116			
Surrogate: Toluene-d8	49.4		ug/L	50.5		97.8	82-121			
Surrogate: 4-Bromofluorobenzene	51.5		ug/L	50.2		103	77-114			
Surrogate: 4-Bromofluorobenzene	51.5		ug/L	50.2		103	80-116			
Matrix Spike (11I0883-MS1)				Source: 11I1028-18 Prepared: 09/15/25 00:00 Analyzed: 09/15/25 19:15						
Chloromethane	713.7	10.0	ug/L	303	ND	235	61-152			M1
Vinyl Chloride	373.8	10.0	ug/L	302	ND	124	66-149			
Bromomethane	163.4	10.0	ug/L	301	ND	54.2	43-171			
Chloroethane	353.7	10.0	ug/L	303	ND	117	69-148			
Trichlorofluoromethane	369.2	10.0	ug/L	303	ND	122	62-163			
1,1-Dichloroethylene	596.4	10.0	ug/L	501	ND	119	70-148			
Acetone	1194	100	ug/L	1000	ND	119	45-173			
Methyl Iodide	499.2	10.0	ug/L	1000	ND	49.9	62-167			M2
Carbon Disulfide	1175	10.0	ug/L	1000	ND	117	71-163			
Methylene Chloride	562.2	50.0	ug/L	501	ND	112	69-140			
Acrylonitrile	981.8	50.0	ug/L	504	ND	195	32-159			M1
trans-1,2-Dichloroethylene	531.2	10.0	ug/L	501	ND	106	69-144			
1,1-Dichloroethane	564.9	10.0	ug/L	501	ND	113	70-138			
Vinyl Acetate	1742	50.0	ug/L	1310	ND	133	58-142			
cis-1,2-Dichloroethylene	507.6	10.0	ug/L	504	ND	101	68-151			
2-Butanone (MEK)	1200	100	ug/L	1000	ND	120	50-160			
Bromochloromethane	556.4	10.0	ug/L	504	ND	110	65-143			
Chloroform	557.1	10.0	ug/L	501	ND	111	71-143			
1,1,1-Trichloroethane	555.5	10.0	ug/L	501	ND	111	63-133			
Carbon Tetrachloride	509.9	10.0	ug/L	501	ND	102	63-142			
Benzene	527.6	10.0	ug/L	504	ND	105	69-133			
1,2-Dichloroethane	544.9	10.0	ug/L	501	ND	109	63-138			
Trichloroethylene	568.5	10.0	ug/L	501	ND	113	71-133			
1,2-Dichloropropane	544.2	10.0	ug/L	501	ND	109	69-132			
Dibromomethane	523.4	10.0	ug/L	504	ND	104	70-147			
Bromodichloromethane	542.6	10.0	ug/L	501	ND	108	67-130			
cis-1,3-Dichloropropene	597.5	10.0	ug/L	501	ND	119	61-126			
4-Methyl-2-pentanone (MIBK)	1134	50.0	ug/L	1000	ND	113	55-147			
Toluene	517.8	10.0	ug/L	505	ND	103	71-133			
trans-1,3-Dichloropropene	600.7	10.0	ug/L	501	ND	120	63-124			
1,1,2-Trichloroethane	530.6	10.0	ug/L	501	ND	106	69-133			
Tetrachloroethylene	569.1	10.0	ug/L	501	ND	114	70-124			
2-Hexanone (MBK)	1071	50.0	ug/L	1000	ND	107	53-141			
Dibromochloromethane	508.3	10.0	ug/L	501	ND	102	74-122			
1,2-Dibromoethane	542.0	10.0	ug/L	502	ND	108	66-127			

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111028

Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 11I0883 - EPA 5030B - EPA 8260D										
Matrix Spike (11I0883-MS1)	Source: 11I1028-18			Prepared: 09/15/25 00:00 Analyzed: 09/15/25 19:15						
Chlorobenzene	521.7	10.0	ug/L	501	ND	104	76-116			
1,1,1,2-Tetrachloroethane	533.7	10.0	ug/L	503	ND	106	77-121			
Ethylbenzene	523.6	10.0	ug/L	502	ND	104	73-124			
Xylenes, total	1560	20.0	ug/L	1510	ND	103	75-123			
Styrene	549.8	10.0	ug/L	504	ND	109	70-120			
Bromoform	579.9	10.0	ug/L	501	ND	116	70-124			
1,2,3-Trichloropropane	560.8	10.0	ug/L	503	ND	111	62-135			
trans-1,4-Dichloro-2-butene	1186	50.0	ug/L	1000	ND	119	50-120			
1,1,2,2-Tetrachloroethane	498.3	10.0	ug/L	501	ND	99.5	63-126			
1,4-Dichlorobenzene	484.8	10.0	ug/L	501	ND	96.7	72-119			
1,2-Dichlorobenzene	518.9	10.0	ug/L	501	ND	104	71-117			
1,2-Dibromo-3-chloropropane	571.3	50.0	ug/L	501	ND	114	49-134			
Surrogate: Dibromofluoromethane	523		ug/L	502		104	57-128			
Surrogate: Dibromofluoromethane	523		ug/L	502		104	75-136			
Surrogate: 1,2-Dichloroethane-d4	524		ug/L	504		104	49-135			
Surrogate: 1,2-Dichloroethane-d4	524		ug/L	504		104	61-142			
Surrogate: Toluene-d8	501		ug/L	505		99.3	82-116			
Surrogate: Toluene-d8	501		ug/L	505		99.3	82-121			
Surrogate: 4-Bromofluorobenzene	491		ug/L	502		97.8	77-114			
Surrogate: 4-Bromofluorobenzene	491		ug/L	502		97.8	80-116			
Matrix Spike Dup (11I0883-MSD1)	Source: 11I1028-18			Prepared: 09/15/25 00:00 Analyzed: 09/15/25 19:38						
Chloromethane	681.3	10.0	ug/L	303	ND	225	61-152	4.65	26	M1
Vinyl Chloride	350.5	10.0	ug/L	302	ND	116	66-149	6.43	23	
Bromomethane	157.6	10.0	ug/L	301	ND	52.3	43-171	3.61	29	
Chloroethane	326.0	10.0	ug/L	303	ND	108	69-148	8.15	25	
Trichlorofluoromethane	344.6	10.0	ug/L	303	ND	114	62-163	6.89	25	
1,1-Dichloroethylene	589.7	10.0	ug/L	501	ND	118	70-148	1.13	22	
Acetone	1253	100	ug/L	1000	ND	125	45-173	4.82	30	
Methyl Iodide	496.2	10.0	ug/L	1000	ND	49.6	62-167	0.603	24	M2
Carbon Disulfide	1129	10.0	ug/L	1000	ND	113	71-163	3.98	22	
Methylene Chloride	536.7	50.0	ug/L	501	ND	107	69-140	4.64	19	
Acrylonitrile	993.2	50.0	ug/L	504	ND	197	32-159	1.15	30	M1
trans-1,2-Dichloroethylene	521.5	10.0	ug/L	501	ND	104	69-144	1.84	22	
1,1-Dichloroethane	542.4	10.0	ug/L	501	ND	108	70-138	4.06	20	
Vinyl Acetate	1763	50.0	ug/L	1310	ND	135	58-142	1.20	24	
cis-1,2-Dichloroethylene	506.2	10.0	ug/L	504	ND	101	68-151	0.276	22	
2-Butanone (MEK)	1277	100	ug/L	1000	ND	128	50-160	6.26	23	
Bromochloromethane	526.8	10.0	ug/L	504	ND	105	65-143	5.47	22	
Chloroform	529.3	10.0	ug/L	501	ND	106	71-143	5.12	21	
1,1,1-Trichloroethane	534.2	10.0	ug/L	501	ND	107	63-133	3.91	23	
Carbon Tetrachloride	486.7	10.0	ug/L	501	ND	97.2	63-142	4.66	22	
Benzene	499.8	10.0	ug/L	504	ND	99.1	69-133	5.41	18	
1,2-Dichloroethane	532.3	10.0	ug/L	501	ND	106	63-138	2.34	20	

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Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 11I0883 - EPA 5030B - EPA 8260D										
Matrix Spike Dup (11I0883-MSD1)	Source: 11I1028-18			Prepared: 09/15/25 00:00 Analyzed: 09/15/25 19:38						
Trichloroethylene	513.6	10.0	ug/L	501	ND	103	71-133	10.1	23	
1,2-Dichloropropane	527.0	10.0	ug/L	501	ND	105	69-132	3.21	20	
Dibromomethane	489.3	10.0	ug/L	504	ND	97.1	70-147	6.73	22	
Bromodichloromethane	519.5	10.0	ug/L	501	ND	104	67-130	4.35	21	
cis-1,3-Dichloropropene	553.4	10.0	ug/L	501	ND	110	61-126	7.66	21	
4-Methyl-2-pentanone (MIBK)	1099	50.0	ug/L	1000	ND	110	55-147	3.15	23	
Toluene	490.2	10.0	ug/L	505	ND	97.1	71-133	5.48	19	
trans-1,3-Dichloropropene	571.1	10.0	ug/L	501	ND	114	63-124	5.05	21	
1,1,2-Trichloroethane	496.7	10.0	ug/L	501	ND	99.2	69-133	6.60	19	
Tetrachloroethylene	535.2	10.0	ug/L	501	ND	107	70-124	6.14	24	
2-Hexanone (MBK)	1075	50.0	ug/L	1000	ND	108	53-141	0.410	24	
Dibromochloromethane	515.8	10.0	ug/L	501	ND	103	74-122	1.46	21	
1,2-Dibromoethane	548.1	10.0	ug/L	502	ND	109	66-127	1.12	23	
Chlorobenzene	502.0	10.0	ug/L	501	ND	100	76-116	3.85	21	
1,1,1,2-Tetrachloroethane	526.4	10.0	ug/L	503	ND	105	77-121	1.38	25	
Ethylbenzene	498.2	10.0	ug/L	502	ND	99.3	73-124	4.97	20	
Xylenes, total	1504	20.0	ug/L	1510	ND	99.5	75-123	3.65	20	
Styrene	510.9	10.0	ug/L	504	ND	101	70-120	7.33	23	
Bromoform	565.9	10.0	ug/L	501	ND	113	70-124	2.44	22	
1,2,3-Trichloropropane	548.3	10.0	ug/L	503	ND	109	62-135	2.25	28	
trans-1,4-Dichloro-2-butene	1129	50.0	ug/L	1000	ND	113	50-120	4.97	26	
1,1,2,2-Tetrachloroethane	464.1	10.0	ug/L	501	ND	92.6	63-126	7.11	24	
1,4-Dichlorobenzene	446.2	10.0	ug/L	501	ND	89.0	72-119	8.29	24	
1,2-Dichlorobenzene	478.7	10.0	ug/L	501	ND	95.6	71-117	8.06	24	
1,2-Dibromo-3-chloropropane	548.0	50.0	ug/L	501	ND	109	49-134	4.16	28	
Surrogate: Dibromofluoromethane	515		ug/L	502		103	57-128			
Surrogate: Dibromofluoromethane	515		ug/L	502		103	75-136			
Surrogate: 1,2-Dichloroethane-d4	552		ug/L	504		110	49-135			
Surrogate: 1,2-Dichloroethane-d4	552		ug/L	504		110	61-142			
Surrogate: Toluene-d8	502		ug/L	505		99.4	82-116			
Surrogate: Toluene-d8	502		ug/L	505		99.4	82-121			
Surrogate: 4-Bromofluorobenzene	500		ug/L	502		99.7	77-114			
Surrogate: 4-Bromofluorobenzene	500		ug/L	502		99.7	80-116			

Metals Total by ICPMS	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 11I0792 - EPA 3005A Total Recoverable Metals - EPA 6020A										
Blank (11I0792-BLK1)				Prepared: 09/12/25 16:53 Analyzed: 09/15/25 22:30						
Antimony	<0.0010	0.0010	mg/L							B
Arsenic	<0.0020	0.0020	mg/L							
Barium	<0.0010	0.0010	mg/L							
Beryllium	<0.0005	0.0005	mg/L							
Cadmium	<0.0002	0.0002	mg/L							

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Metals Total by ICPMS	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 11I0792 - EPA 3005A Total Recoverable Metals - EPA 6020A										
Blank (11I0792-BLK1)				Prepared: 09/12/25 16:53 Analyzed: 09/15/25 22:30						
Chromium	<0.0010	0.0010	mg/L							B
Cobalt	<0.0005	0.0005	mg/L							B
Copper	<0.0050	0.0050	mg/L							
Lead	<0.0010	0.0010	mg/L							
Nickel	<0.0050	0.0050	mg/L							
Selenium	<0.0020	0.0020	mg/L							
Silver	<0.0050	0.0050	mg/L							
Thallium	<0.0005	0.0005	mg/L							
Vanadium	<0.0020	0.0020	mg/L							
Zinc	<0.0050	0.0050	mg/L							
LCS (11I0792-BS1)				Prepared: 09/12/25 16:53 Analyzed: 09/15/25 22:33						
Antimony	0.107	0.0010	mg/L	0.100		107	80-120			
Arsenic	0.103	0.0020	mg/L	0.100		103	80-120			
Barium	0.104	0.0010	mg/L	0.100		104	80-120			
Beryllium	0.106	0.0005	mg/L	0.100		106	80-120			
Cadmium	0.105	0.0002	mg/L	0.100		105	80-120			
Chromium	0.105	0.0010	mg/L	0.100		105	80-120			
Cobalt	0.107	0.0005	mg/L	0.100		107	80-120			
Copper	0.0990	0.0050	mg/L	0.100		99.0	80-120			
Lead	0.112	0.0010	mg/L	0.100		112	80-120			
Nickel	0.0983	0.0050	mg/L	0.100		98.3	80-120			
Selenium	0.1013	0.0020	mg/L	0.100		101	80-120			
Silver	0.107	0.0050	mg/L	0.100		107	80-120			
Thallium	0.106	0.0005	mg/L	0.100		106	80-120			
Vanadium	0.118	0.0020	mg/L	0.100		118	80-120			
Zinc	0.106	0.0050	mg/L	0.100		106	80-120			
Matrix Spike (11I0792-MS1)				Source: 11I1028-01 Prepared: 09/12/25 16:53 Analyzed: 09/15/25 22:45						
Antimony	0.112	0.0010	mg/L	0.100	0.0005	112	75-125			
Arsenic	0.106	0.0020	mg/L	0.100	ND	106	75-125			
Barium	0.220	0.0010	mg/L	0.100	0.109	110	75-125			
Beryllium	0.111	0.0005	mg/L	0.100	ND	111	75-125			
Cadmium	0.108	0.0002	mg/L	0.100	0.0002	107	75-125			
Chromium	0.105	0.0010	mg/L	0.100	0.0008	104	75-125			
Cobalt	0.104	0.0005	mg/L	0.100	0.0012	102	75-125			
Copper	0.0976	0.0050	mg/L	0.100	0.0055	92.1	75-125			
Lead	0.109	0.0010	mg/L	0.100	ND	109	75-125			
Nickel	0.0983	0.0050	mg/L	0.100	0.0014	96.9	75-125			
Selenium	0.1055	0.0020	mg/L	0.100	0.0033	102	75-125			
Silver	0.109	0.0050	mg/L	0.100	ND	109	75-125			
Thallium	0.111	0.0005	mg/L	0.100	ND	111	75-125			
Vanadium	0.120	0.0020	mg/L	0.100	ND	120	75-125			
Zinc	0.109	0.0050	mg/L	0.100	0.0063	103	75-125			
Matrix Spike Dup (11I0792-MSD1)				Source: 11I1028-01 Prepared: 09/12/25 16:53 Analyzed: 09/15/25 22:48						

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Metals Total by ICPMS	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 11I0792 - EPA 3005A Total Recoverable Metals - EPA 6020A										
Matrix Spike Dup (11I0792-MSD1) Source: 11I1028-01 Prepared: 09/12/25 16:53 Analyzed: 09/15/25 22:48										
Antimony	0.112	0.0010	mg/L	0.100	0.0005	112	75-125	0.561	20	
Arsenic	0.108	0.0020	mg/L	0.100	ND	108	75-125	2.50	20	
Barium	0.221	0.0010	mg/L	0.100	0.109	112	75-125	0.631	20	
Beryllium	0.111	0.0005	mg/L	0.100	ND	111	75-125	0.365	20	
Cadmium	0.108	0.0002	mg/L	0.100	0.0002	108	75-125	0.394	20	
Chromium	0.109	0.0010	mg/L	0.100	0.0008	108	75-125	3.09	20	
Cobalt	0.108	0.0005	mg/L	0.100	0.0012	107	75-125	4.30	20	
Copper	0.0969	0.0050	mg/L	0.100	0.0055	91.4	75-125	0.707	20	
Lead	0.110	0.0010	mg/L	0.100	ND	110	75-125	1.73	20	
Nickel	0.0996	0.0050	mg/L	0.100	0.0014	98.2	75-125	1.32	20	
Selenium	0.1089	0.0020	mg/L	0.100	0.0033	106	75-125	3.23	20	
Silver	0.108	0.0050	mg/L	0.100	ND	108	75-125	0.143	20	
Thallium	0.110	0.0005	mg/L	0.100	ND	110	75-125	0.782	20	
Vanadium	0.120	0.0020	mg/L	0.100	ND	120	75-125	0.505	20	
Zinc	0.110	0.0050	mg/L	0.100	0.0063	104	75-125	1.30	20	
Post Spike (11I0792-PS1) Source: 11I1028-01 Prepared: 09/12/25 16:53 Analyzed: 09/15/25 22:50										
Antimony	0.0216		mg/L	0.0200	0.0005	106	80-120			
Arsenic	0.0205		mg/L	0.0200	0.00001	102	80-120			
Barium	0.126		mg/L	0.0200	0.109	84.9	80-120			
Beryllium	0.0210		mg/L	0.0200	0.000007	105	80-120			
Cadmium	0.0202		mg/L	0.0200	0.0002	99.7	80-120			
Chromium	0.0207		mg/L	0.0200	0.0008	99.1	80-120			
Cobalt	0.0201		mg/L	0.0200	0.0012	94.8	80-120			
Copper	0.0232		mg/L	0.0200	0.0055	88.2	80-120			
Lead	0.0205		mg/L	0.0200	0.00004	102	80-120			
Nickel	0.0198		mg/L	0.0200	0.0014	91.9	80-120			
Selenium	0.0228		mg/L	0.0200	0.0033	97.3	80-120			
Silver	0.0210		mg/L	0.0200	0.0001	105	80-120			
Thallium	0.0202		mg/L	0.0200	0.000005	101	80-120			
Vanadium	0.0206		mg/L	0.0200	-0.0001	103	80-120			
Zinc	0.0254		mg/L	0.0200	0.0063	95.6	80-120			
Batch 11I0971 - EPA 3005A Total Recoverable Metals - EPA 6020A										
Blank (11I0971-BLK1) Prepared: 09/17/25 07:26 Analyzed: 09/17/25 17:24										
Cobalt	<0.0005	0.0005	mg/L							
Copper	<0.0050	0.0050	mg/L							
Zinc	<0.0050	0.0050	mg/L							
LCS (11I0971-BS1) Prepared: 09/17/25 07:26 Analyzed: 09/17/25 17:31										
Cobalt	0.101	0.0005	mg/L	0.100		101	80-120			
Copper	0.104	0.0050	mg/L	0.100		104	80-120			
Zinc	0.106	0.0050	mg/L	0.100		106	80-120			
Matrix Spike (11I0971-MS1) Source: 11I1028-06RE1 Prepared: 09/17/25 07:26 Analyzed: 09/17/25 17:37										

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Metals Total by ICPMS	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 11I0971 - EPA 3005A Total Recoverable Metals - EPA 6020A										
Matrix Spike (11I0971-MS1) Source: 11I1028-06RE1 Prepared: 09/17/25 07:26 Analyzed: 09/17/25 17:37										
Cobalt	0.0977	0.0005	mg/L	0.100	0.0003	97.4	75-125			
Copper	0.106	0.0050	mg/L	0.100	0.0094	96.9	75-125			
Zinc	0.117	0.0050	mg/L	0.100	0.0177	99.3	75-125			
Matrix Spike Dup (11I0971-MSD1) Source: 11I1028-06RE1 Prepared: 09/17/25 07:26 Analyzed: 09/17/25 17:39										
Cobalt	0.0943	0.0005	mg/L	0.100	0.0003	94.0	75-125	3.58	20	
Copper	0.105	0.0050	mg/L	0.100	0.0094	95.3	75-125	1.53	20	
Zinc	0.115	0.0050	mg/L	0.100	0.0177	97.8	75-125	1.29	20	
Post Spike (11I0971-PS1) Source: 11I1028-06RE1 Prepared: 09/17/25 07:26 Analyzed: 09/17/25 17:41										
Cobalt	0.0749		mg/L	0.0800	0.0003	93.3	80-120			
Copper	0.0867		mg/L	0.0800	0.0094	96.6	80-120			
Zinc	0.0953		mg/L	0.0800	0.0177	97.0	80-120			

Batch 11I1450 - EPA 3005A Total Recoverable Metals - EPA 6020A

Blank (11I1450-BLK1) Prepared: 09/24/25 16:12 Analyzed: 09/25/25 18:01										
Copper	<0.0050	0.0050	mg/L							
LCS (11I1450-BS1) Prepared: 09/24/25 16:12 Analyzed: 09/25/25 18:04										
Copper	0.103	0.0050	mg/L	0.100		103	80-120			
Matrix Spike (11I1450-MS1) Source: 11I1940-01 Prepared: 09/24/25 16:12 Analyzed: 09/25/25 18:19										
Copper	0.0994	0.0050	mg/L	0.100	0.0042	95.2	75-125			
Matrix Spike Dup (11I1450-MSD1) Source: 11I1940-01 Prepared: 09/24/25 16:12 Analyzed: 09/25/25 18:21										
Copper	0.101	0.0050	mg/L	0.100	0.0042	96.7	75-125	1.45	20	
Post Spike (11I1450-PS1) Source: 11I1940-01 Prepared: 09/24/25 16:12 Analyzed: 09/25/25 18:24										
Copper	0.0230		mg/L	0.0200	0.0042	94.1	80-120			

Definitions

B:	The target analyte was detected in the blank at or above the method acceptance criteria.
M1:	Matrix spike recovery is above acceptance limits.
M2:	Matrix spike recovery is below acceptance limits.
Q2:	LCS recovery is above acceptance limits.
RL:	Reporting Limit
RPD:	Relative Percent Difference

Cooler Receipt Log

Cooler ID: Default Cooler Temp: 1.4°C

Cooler Inspection Checklist

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



Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

1111028

Report Comments

The data and information on this, and other accompanying documents, represents only the sample(s) analyzed. This report is incomplete unless all pages indicated in the footnote are present and an authorized signature is included. The services were provided under and subject to Microbac's standard terms and conditions which can be located and reviewed at <https://www.microbac.com/standard-terms-conditions>.

Reviewed and Approved By:

Heather Murphy

Customer Relationship Specialist

heather.murphy@microbac.com

11/12/25 09:37

CHAIN OF CUSTODY RECORD



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

Page 1 of 3

Printed: 8/26/2025 4:07:15PM

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SITE INFORMATION

Sampler: TODD WHIPPLE

Project: Boone Landfill-New Regs
6007

SPECIAL INSTRUCTIONS

None

Turn Around Time

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

REPORT TO

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

INVOICE TO

John Roosa
Boone County Sanitary Landfill
1268 224th Lane
Boone, IA 50036



1 I I 1 0 2 8

HLW Engineering
PM: Heather Murphy

Temperature: 1.4 °C Vice

Number	Sample Identification / Client ID	Matrix	Sample Type	Date	Time	# Containers	Analyses	Lab Sample Number
01-001	MW91-8	Aqueous	GRAB	9/9/25	14:13	7	Indfil-app1-metals-6020dfill-app1-voc-group	01
02-001	MW02-15A	Aqueous	GRAB	9/9/25	13:37	7	Indfil-app1-metals-6020dfill-app1-voc-group	02
03-001	MW98-28	Aqueous	GRAB	9/9/25	9:05	7*	Indfil-app1-metals-6020dfill-app1-voc-group	03
04-001	MW02-30A	Aqueous	GRAB	9/9/25	13:21	7	Indfil-app1-metals-6020dfill-app1-voc-group	04
05-001	MW88-2	Aqueous	GRAB	9/9/25	12:30	7	Indfil-app1-metals-6020dfill-app1-voc-group	05
06-001	MW94-18	Aqueous	GRAB	9/9/25	9:27	7	Indfil-app1-metals-6020dfill-app1-voc-group	06
07-001	MW09-40	Aqueous	GRAB	9/9/25	9:49	7	Indfil-app1-metals-6020dfill-app1-voc-group	07
08-001	MW91-10	Aqueous	GRAB	9/9/25	10:10	7	Indfil-app1-metals-6020dfill-app1-voc-group	08
09-001	MW96-21 R	Aqueous	GRAB	9/9/25	10:38	7	Indfil-app1-metals-6020dfill-app1-voc-group	09
10-001	MW96-24	Aqueous	GRAB	9/9/25	11:11	7	Indfil-app1-metals-6020dfill-app1-voc-group	10

Relinquished By

Date/Time

Relinquished By

Date/Time

Received By

Date/Time

Received for Lab By

Date/Time

Remarks:

* 1 vial short

CHAIN OF CUSTODY RECORD



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

Page 2 of 3

Printed: 8/26/2025 4:07:15PM

Page 60 of 61

SITE INFORMATION

Sampler: Todd Whipple

Project: **Boone Landfill-New Regs**
6007

REPORT TO

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

INVOICE TO

John Roosa
Boone County Sanitary Landfill
1268 224th Lane
Boone, IA 50036

SPECIAL INSTRUCTIONS

None

Turn Around Time

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

LAB USE ONLY



1 I I 1 0 2 8

HLW Engineering
PM: Heather Murphy

Temperature: 1.4 °C Vice

Number	Sample Identification / Client ID	Matrix	Sample Type	Date	Time	# Containers	Analyses	Lab Sample Number
11-001	MW88-3	Aqueous	GRAB	9/9/25	12:05	7	Indfil-app1-metals-602ndfill-app1-voc-group	11
12-001	MW96-23	Aqueous	GRAB	9/9/25	11:29	7	Indfil-app1-metals-602ndfill-app1-voc-group	12
13-001	MW21-43	Aqueous	GRAB	9/9/25	11:42	7	Indfil-app1-metals-602ndfill-app1-voc-group	13
14-001	GWD-1 <u>Dry</u>	Aqueous	GRAB				Indfil-app1-metals-602ndfill-app1-voc-group	
15-001	GU-3 <u>Buried</u>	Aqueous	GRAB				Indfil-app1-metals-602ndfill-app1-voc-group	
16-001	PEC-3 <u>Buried</u>	Aqueous	GRAB				Indfil-app1-voc-group	
17-001	GU-4	Aqueous	GRAB	9/9/25	12:50	7	Indfil-app1-metals-602ndfill-app1-voc-group	14
18-001	SRAMP #1 <u>Dry</u>	Aqueous	GRAB				Indfil-app1-metals-602ndfill-app1-voc-group 8260@dichlorodifluorome thane	
19-001	SRAMP #2 <u>Dry</u>	Aqueous	GRAB				Indfil-app1-voc-group8260@dichlorodifluorome thane	

Relinquished By [Signature] Date/Time 9/10/25

Relinquished By [Signature] Date/Time 9-11-25 10:48

Remarks:

Received By _____ Date/Time _____

Received for Lab By _____ Date/Time _____

CHAIN OF CUSTODY RECORD



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

Page 3 of 3

Printed: 8/26/2025 4:07:15PM

Page 61 of 61

SITE INFORMATION

Sampler: Todd WhippleProject: **Boone Landfill-New Regs**
6007

REPORT TO

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

INVOICE TO

John Roosa
Boone County Sanitary Landfill
1268 224th Lane
Boone, IA 50036

SPECIAL INSTRUCTIONS

None

Turn Around Time

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

LAB USE ONLY



1 I I 1 0 2 8

HLW Engineering
PM: Heather MurphyTemperature: 1.4 °C

Vice

Number	Sample Identification / Client ID	Matrix	Sample Type	Date	Time	# Containers	Analyses	Lab Sample Number
20-001	MW98-25	Aqueous	GRAB	9/9/25	8:45	7	Indfil-app1-metals-6020dfill-app1-voc-group 8260@dichlorodifluorome thane	15
21-001	MW06-37	Aqueous	GRAB	9/9/25	14:26	7	Indfil-app1-metals-6020dfill-app1-voc-group	16
22-001	MW06-38	Aqueous	GRAB	9/9/25	14:33	7	Indfil-app1-metals-6020dfill-app1-voc-group	17
23-001	MW06-39	Aqueous	GRAB	9/9/25	14:45	7	Indfil-app1-metals-6020dfill-app1-voc-group	18
24-001	Field Duplicate	Aqueous	GRAB	9/9/25	✓	1	Indfil-app1-metals-6020dfill-app1-voc-group	19

Relinquished By

Date/Time

Relinquished By

Date/Time

Received By

Date/Time

Received for Lab By

Date/Time

Remarks:

Appendix D

Turbidity Data

Boone County Sanitary Landfill

Field Turbidity Over Time

No-Purge Sampling

	9/19/14	11/13/14	3/17/15	6/29/15	9/11/15	11/9/15	3/16/16	6/7/16	9/8/16
Well	NTU	NTU	NTU	NTU	NTU	NTU	NTU	NTU	NTU
2	177.6	19.70	9.53	13.89	0.82		1.72		13.05
3	90.07		53.10		10.90		3.77		24.71
8	9.11	1.19	2.20	2.08	1.45		0.94		2.64
10	2.73		3.65		9.47		0.72		0.76
15A	6.82	0.76	2.95	5.15	2.46		0.77		11.85
18	2.57		0.56		1.88		2.08		0.61
21	308.5								11.30
23	250.2		2.46		1.79	1.90	1.45		0.66
24	396.5		4.86		0.82		3.67		0.55
25	24.95		82.60		3.87		157.00		2.27
28	853.8	20.50	11.70	975.00	11.70		5.78		19.87
30A							0.91	9.79	11.48
37	7.35		1.31		0.89		1.75		1.64
38	20.65		1.04		2.30		2.09		1.48
39	6.09		0.51		4.18		1.09		1.19
40	2.88		1.91		0.63		2.41		1.91
GU-3									
SRAMP1	2.51		38.80		4.15		1.85		10.90
SRAMP2	5.56	5.09	3.02		7.34		3.94		11.82
GU-4									
Max	853.80	20.50	82.60	975.00	11.70	1.90	157.00	29.70	24.71
Min	1.00	0.76	0.51	2.08	0.63	1.90	0.72	9.79	0.49
Median	8.23	5.09	2.95	9.52	2.46	1.90	2.08	19.75	2.09
Average	120.49	9.45	13.07	249.03	3.96	1.90	11.19	19.75	6.49

Boone C

Field Turbic

No-Purge

	3/17/17	6/8/17	9/19/17	3/8/18	5/16/18	8/9/18	9/24/18	12/20/18	3/25/19
<u>Well</u>	<u>NTU</u>	<u>NTU</u>	<u>NTU</u>	<u>NTU</u>	<u>NTU</u>	<u>NTU</u>	<u>NTU</u>	<u>NTU</u>	<u>NTU</u>
2	3.33		3.95	100.30			94.49		73.74
3	149.00	5.06	3.79	20.86			0.71		3.52
8	1.83		1.37	0.75			0.73		0.77
10	0.87		0.86	0.44			0.74		0.58
15A	2.22		2.93	4.29			0.85		1.83
18	2.14		2.58	0.35			0.84		0.77
21	1.50		10.40	5.54				16.20	32.97
23	3.27		3.44	1.59			1.28		0.97
24	1.43		4.26	1.51			1.24		1.04
25	30.50		2.59	3.01			1.40		1.69
28	47.30		38.20	14.85			85.43		29.02
30A	2.50		11.30	4.80			79.17		169.90
37	1.04		1.78	0.57			0.44		0.52
38	3.07		2.87	0.34			0.53		1.27
39	0.71		6.44	3.22			0.47		2.50
40	1.22		1.93	0.29			0.69		0.70
GU-3									
SRAMP1	3.31		4.30						0.85
SRAMP2	2.89			1.96			4.61		1.19
GU-4									
Max	149.00	80.70	38.20	100.30	648.00	43.95	94.49	16.20	170.10
Min	0.71	5.06	0.86	0.29	648.00	43.95	0.44	16.20	0.52
Median	2.50	42.88	3.13	1.87	648.00	43.95	0.85	16.20	1.27
Average	14.68	42.88	5.70	9.25	648.00	43.95	15.42	16.20	22.19

Boone C

Field Turbic

No-Purge

	9/3/19	12/3/19	3/23/20	9/4/20	3/9/21	6/7/21	9/7/21	12/3/21	3/28/22	6/24/22	9/14/22
<u>Well</u>	<u>NTU</u>	<u>NTU</u>	<u>NTU</u>	<u>NTU</u>	<u>NTU</u>	<u>NTU</u>	<u>NTU</u>	<u>NTU</u>	<u>NTU</u>	<u>NTU</u>	<u>NTU</u>
2	88.24		8.04	21.25	145.00				32.2		0.63
3	8.76		6.85	7.31	45.22		11.90		13.80		1.43
8	1.81		15.44	1.05	1.23		0.71		0.70		1.48
10	0.98		0.70	1.28	1.78	1.80	0.51		1.09		0.76
15A	0.89		3.62	11.19	3.45		3.99		3.51		4.43
18	1.35		1.04	0.90	1.38	1.41	1.44		1.39		1.12
21	113.80		32.08	8.20	2.52		1.64		1000.00		0.92
23	6.19		3.74	4.82	1.91		1.26		453.00		4.37
24	0.81		1.07	1.68	2.04		0.83	5.13	5.20		1.89
25	0.74		70.61	3.03	63.55		0.83		388.00		3.40
28	13.99		22.36	16.09	178.50		8.57		75.60		21.03
30A	15.25		65.97	1.85	110.40		3.39		3.08		257.20
37	0.86	2.16	1.24	1.25	1.82		1.58	1.76	0.56		1.20
38	0.86		2.08	0.91	2.11		0.97		1.00		2.34
39	0.72		1.47	1.62	1.93		0.82		1.90		0.99
40	0.49		3.53	1.01	3.86		1.00	2.84	2.97		1.31
GU-3							103.00	6.88			6.42
SRAMP1	1.30				2.08				3.30		
SRAMP2			1.99		2.94				3.82		
GU-4										5.50	1.75
Max	113.80	2.16	182.10	66.45	178.50	1.80	103.00	6.88	1000.00	5.50	257.20
Min	0.49	2.16	0.70	0.90	1.23	1.41	0.51	1.76	0.56	5.50	0.63
Median	1.33	2.16	3.68	1.85	2.32	1.61	1.35	3.99	3.41	5.50	1.62
Average	14.62	2.16	23.55	8.82	31.76	1.61	8.90	4.15	110.62	5.50	17.37

Boone C

Field Turbic

No-Purge

	3/20/23	9/12/23	3/12/24	9/30/24	11/25/24	12/9/24	3/24/25	9/9/25	Max	Min	Ave	Std Dev
<u>Well</u>	<u>NTU</u>	<u>NTU</u>	<u>NTU</u>	<u>NTU</u>	<u>NTU</u>	<u>NTU</u>	<u>NTU</u>	<u>NTU</u>				
2	2.96	4.41	16.30	7.51			15	24.60	177.60	0.63	36.59	49.45
3	3.05	2.66	5.04	2.57	2.14		2.04	3.35	149.00	0.71	19.26	33.98
8	1.94	0.87	2.82	1.98			0.49	0.95	15.44	0.49	2.26	3.21
10	0.94	0.80	2.85	2.35			1.69	1.50	9.47	0.44	1.66	1.86
15A	2.46	3.50	3.53	4.98			3.39	5.12	11.85	0.76	3.88	2.75
18	1.50	3.23	7.16	1.80			7.21	2.54	7.21	0.35	1.99	1.76
21	59.71	12.40	608.30	115.50			35.10	52.33	1000.00	0.92	121.45	252.04
23	1.62	1.48	4.31	8.21			4.20	3.12	453.00	0.66	31.97	102.90
24	1.76	1.37	4.19	3.13			8.02	4.42	396.50	0.55	19.06	80.42
25	161.90	11.00	259.10	8.20			95.00	8.99	388.00	0.74	60.18	98.16
28	11.37	25.80	11.17	49.16			61.20	32.62	975.00	5.78	105.62	246.73
30A	250.90	4.72	2.93	3.05			6.48	2.32	257.20	0.91	48.45	81.31
37	1.55	1.04	2.01	2.78			0.50	0.76	7.35	0.44	1.53	1.35
38	1.21	1.28	3.70	2.56			1.01	1.47	20.65	0.34	2.48	4.05
39	1.16	1.24	2.52	2.92			2.58	1.13	6.44	0.47	2.06	1.63
40	0.93	1.22	2.98	2.79			5.89	0.74	5.89	0.29	1.92	1.35
GU-3				1.87		26.20	6.02		103.00	1.87	25.07	39.13
SRAMP1	1.51						7.53		38.80	0.85	6.34	10.15
SRAMP2	2.60		2.63				3.98		11.82	1.19	4.09	2.58
GU-4	54.30	247.00	2.31		5.29		85.40	7.66	247.00	1.75	51.15	84.89
Max	250.90	247.00	608.30	115.50	5.29	26.20	95.00	52.33				
Min	0.93	0.80	2.01	1.80	2.14	26.20	0.49	0.74				
Median	1.94	2.66	3.62	2.92	3.72	26.20	5.96	3.12				
Average	29.65	19.06	52.44	13.02	3.72	26.20	17.64	9.04				

Appendix E

Running Summary of Prediction Limit Exceedances

Spring, 2013*		Fall, 2013*	
MW00-36	1,1-dichloroethane	MW00-36	1,1-dichloroethane
MW98-25	cis-1,2-dichloroethene	MW98-25	benzene
	dichlorodifluoromethane		bis(2ethylhexyl)phthalate
	trichlorodifluoromethane		chloroethane
			cis-1,2-dichloroethene
			dichlorodifluoromethane
			trichlorodifluoromethane
SRAMP #1	1,4-dichlorobenzene	SRAMP #1	1,4-dichlorobenzene
	benzene		benzene
	chlorobenzene		chlorobenzene
	cis-1,2-dichloroethene		chloroethane
	dichlorodifluoromethane		cis-1,2-dichloroethene
	trichlorodifluoromethane		dichlorodifluoromethane
			ethyl benzene
			trichlorodifluoromethane
			xylene
			arsenic

Spring, 2014*		Fall, 2014*	
MW00-36	1,1-dichloroethane	MW00-36	1,1-dichloroethane
MW96-23	None	MW96-23	arsenic
MW98-25	benzene	MW98-25	benzene
	beta-BHC		chlorobenzene
	chloroethane		cis-1,2-dichloroethene
	cis-1,2-dichloroethene		dichlorodifluoromethane
	dichlorodifluoromethane		trichlorodifluoromethane
SRAMP #1	zinc	SRAMP #1	zinc

Spring, 2015*		Fall, 2015*	
MW00-36	None	MW00-36	abandoned
MW96-23	None	MW96-23	arsenic
MW98-25	cis-1,2-dichloroethene	MW98-25	benzene
			cis-1,2-dichloroethene
			dichlorodifluoromethane
SRAMP #1	1,4-dichlorobenzene	SRAMP #1	1,4-dichlorobenzene
	Benzene		Benzene
	cis-1,2-dichloroethene		Chlorobenzene
	dichlorodifluoromethane		Chloroethane
			cis-1,2-dichloroethene
			dichlorodifluoromethane
			trichlorodifluoromethane

Spring, 2016*		Fall, 2016	
MW96-23*	Arsenic	MW96-23	None
MW98-25*	Chloroethane	MW98-25	Cobalt
	cis-1,2-dichloroethene		Nickel
			1,4-dichlorobenzene
			Benzene
			Chloroethane
			cis-1,2-dichloroethene
			dichlorodifluoromethane
			trichlorodifluoromethane
SRAMP #1*	1,4-dichlorobenzene	SRAMP #1	Cobalt
	Acetone		Nickel
	Benzene		1,4-dichlorobenzene
	Chlorobenzene		Benzene
	Chloroethane		Chlorobenzene
	cis-1,2-dichloroethene		Chloroethane
	dichlorodifluoromethane		cis-1,2-dichloroethene
	Ethylbenzene		dichlorodifluoromethane
	trichlorodifluoromethane		trichlorodifluoromethane
	Xylenes, total		

* Predates validated background data pool.

Spring, 2017		Fall, 2017	
MW96-21	cobalt	MW96-21	none
MW98-25	cobalt	MW98-25	cobalt
	nickel		nickel
	1,4-dichlorobenzene		1,4-dichlorobenzene
	cis-1,2-dichloroethene		bis(2-ethylhexyl)phthalate
	dichlorodifluoromethane		cis-1,2-dichloroethene
	trichlorodifluoromethane		dichlorodifluoromethane
			trichlorodifluoromethane
SRAMP #1*	cobalt	SRAMP #1*	dichlorodifluoromethane
	nickel		trichlorodifluoromethane
	1,4-dichlorobenzene		
	benzene		
	chlorobenzene		
	chloroethane		
	cis-1,2-dichloroethene		
	dichlorodifluoromethane		
	trichlorodifluoromethane		
MW09-42	barium	MW09-42	none

Spring, 2018		Fall, 2018	
MW96-21	none	MW96-21	none
MW98-25	cobalt	MW98-25	cobalt
	nickel		nickel
	acetone		1,4-dichlorobenzene
	chloroethane		cis-1,2-dichloroethene
	cis-1,2-dichloroethene		dichlorodifluoromethane
	dichlorodifluoromethane		
	trichlorodifluoromethane		

Spring, 2019		Fall, 2019	
MW96-21	none	MW96-21	none
MW-09-42	barium	MW-09-42	barium
MW98-25	cobalt	MW98-25	cobalt
	nickel		
	cis-1,2-dichloroethene		
	dichlorodifluoromethane		
SRAMP 1	acetone	SRAMP 1	benzene
	benzene		chloroethane
	chlorobenzene		cis-1,2-dichloroethene
	chloroethane		
	cis-1,2-dichloroethene		
	dichlorodifluoromethane		
	trichlorodifluoromethane		

Spring, 2020		Fall, 2020	
MW-09-42	barium	MW-09-42	barium
MW98-25	cobalt	MW98-25	cobalt
	nickel		1,1-dichloroethane
	dichlorodifluoromethane		1,4-dichlorobenzene
	trichlorofluoromethane		cis-1,2-dichloroethene
			dichlorodifluoromethane
			trichlorofluoromethane
SRAMP 1	dry	SRAMP 1	dry

Spring, 2021		Fall, 2021	
MW98-25	cobalt	MW98-25	cobalt
	copper		nickel
	nickel		1,1-dichloroethane
	1,1-dichloroethane		1,4-dichlorobenzene
	1,4-dichlorobenzene		benzene
	benzene		chlorobenzene
	cis-1,2-dichloroethene		chloroethane
	dichlorodifluoromethane		cis-1,2-dichloroethene
	trichlorofluoromethane		dichlorodifluoromethane
SRAMP 1	1,1-dichloroethane	SRAMP 1	dry
	1,4-dichlorobenzene		
	benzene	GU-3	benzene
	chlorobenzene		chloroethane
	chloroethane		cis-1,2-dichloroethene
	cis-1,2-dichloroethene		vinyl chloride
	dichlorodifluoromethane		
	ethylbenzene		
	trichlorofluoromethane		

Spring, 2022		Fall, 2022	
MW-96-21*	<i>Elevated metals are due to elevated turbidity. Data is disregarded</i>	MW-96-21	None
MW98-25	cobalt	MW98-25	cobalt
	1,1-dichloroethane		
	1,4-dichlorobenzene		
	benzene		
	cis-1,2-dichloroethene		
	dichlorodifluoromethane		
	trichlorofluoromethane		
SRAMP 1	1,1-dichloroethane	SRAMP 1	dry
	1,4-dichlorobenzene		
	acetone	GU-3	benzene
	benzene		chlorobenzene
	chlorobenzene		chloroethane
	chloroethane		cis-1,2-dichloroethene
	cis-1,2-dichloroethene		ethylbenzene
	dichlorodifluoromethane		vinyl chloride
	trichlorofluoromethane		
GU-3	benzene		
	chlorobenzene		
	vinyl chloride		

Spring, 2023		Fall, 2023	
MW98-25	cobalt	MW98-25	cobalt
	1,1-dichloroethane		nickel
	1,4-dichlorobenzene		1,1-dichloroethane
	chloroethane		1,4-dichlorobenzene
	cis-1,2-dichloroethene		benzene
	dichlorodifluoromethane		chlorobenzene
	trichlorofluoromethane		chloroethane
			cis-1,2-dichloroethene
			dichlorodifluoromethane
			trichlorofluoromethane
SRAMP 1	1,1-dichloroethane	SRAMP 1	dry
	1,4-dichlorobenzene		
	benzene		
	chlorobenzene		
	chloroethane		
	cis-1,2-dichloroethene		
	dichlorodifluoromethane		
	trichlorofluoromethane		

Spring, 2024		Fall, 2024	
MW98-25	cobalt	MW98-25	cobalt
	nickel		nickel
	1,1-dichloroethane		1,1-dichloroethane
	1,4-dichlorobenzene		1,4-dichlorobenzene
	chloroethane		chlorobenzene
	cis-1,2-dichloroethene		chloroethane
	trichlorofluoromethane		chloromethane
			cis-1,2-dichloroethene
GU-3	submerged	GU-3	Nickel
			benzene
			chlorobenzene
			chloroethane
			cis-1,2-dichloroethene
			vinyl chloride
SRAMP 1	dry	SRAMP 1	dry

Spring, 2025		Fall, 2025	
MW98-25	cobalt	MW98-25	cobalt
	nickel		nickel
	1,1-dichloroethane		1,1-dichloroethane
	1,4-dichlorobenzene		1,4-dichlorobenzene
	cis-1,2-dichloroethene		benzene
	cis-1,2-dichloroethene		chlorobenzene
	dichlorodifluoromethane		chloroethane
			cis-1,2-dichloroethene
GU-3	metals by intrawell methods	GU-3	Submerged
	1,4-dichlorobenzene		
	benzene		
	chlorobenzene		
	chloroethane		
	cis-1,2-dichloroethene		
	vinyl chloride		
SRAMP 1	1,4-dichlorobenzene	SRAMP 1	dry
	benzene		
	chlorobenzene		
	chloroethane		
	cis-1,2-dichloroethene		
	dichlorodifluoromethane		
	Trichlorofluoromethane		

Appendix F

Summary of Assessment Monitoring Data

MW96-21 (green highlights indicate full Appendix II sample analyses were performed)

Date	<i>dichlorodifluoromethane</i> ug/L	<i>bis(2-ethylhexyl)phthalate</i> ug/L	<i>beta (BHC)</i> ug/L	<i>VOC</i> ug/L
9/19/2017	<1.0	<6	<0.05	<1.0
3/8/2018	NT	NT	NT	<1.0
9/24/2018	<1.0	<6	<0.05	<1.0
3/25/2019	NT	NT	NT	<1.0
9/3/2019	NT	NT	NT	<1.0
3/26/2020	NT	NT	NT	<1.0
9/4/2020	NT	NT	NT	<1.0
3/6/2021	NT	NT	NT	<1.0
9/7/2021	NT	NT	NT	<1.0
3/28/2022	NT	NT	NT	<1.0
9/14/2022	NT	NT	NT	<1.0
3/20/2023	NT	NT	NT	<1.0
9/12/2023	<1.0	<6	<0.05	<1.0
3/12/2024	<1.0	<6	<0.05	<1.0
9/30/2024	NT	NT	NT	<1.0

NT = Not Tested

VOC = Appendix I volatile organic compounds

Appendix G

Corrective Measures Monitoring Summary Data

SRAMP #1

Date	dichlorodifluoromethane ug/L	bis(2-ethylhexyl)phthalate ug/L	beta (BHC) ug/L	VOC (yes/ND)
3/17/2008	NT	NT	NT	NT
6/4/2008	NT	NT	NT	NT
7/22/2008	NT	NT	NT	yes
9/12/2008	NT	NT	NT	yes
12/11/2008	NT	NT	NT	yes
3/4/2009	NT	NT	NT	yes
9/21/2009	20.4	<6	<0.05	yes
3/25/2010	NT	NT	NT	NT
9/25/2010	7.6	<6	<0.05	yes
3/30/2011	NT	NT	NT	yes
9/15/2011	NT	NT	NT	yes
3/7/2012	1.1	<6	<0.05	yes
9/12/2012	2.2	<6	<0.05	ND
3/20/2013	9.5	<6	<0.05	yes
9/27/2013	20.3	<6	<0.05	yes
3/14/2014	<1.0	<6	<0.05	ND
9/19/2014	<1.0	<6	<0.05	ND
3/17/2015	16.7	<6	<0.05	yes
9/11/2015	40.6	<6	<0.05	yes
3/16/2016	16.5	<6	<0.05	yes
9/8/2016	40.7	<6	<0.05	yes
3/18/2017	34.8	<6	<0.05	yes
9/19/2017	3.1	<6	<0.05	yes
3/8/2018	Dry	Dry	Dry	Dry
9/24/2018	Dry	Dry	Dry	Dry
3/25/2019	38.4	NT	NT	yes
9/3/2019	<1.0	NT	NT	yes
3/26/2020	NT	NT	NT	NT
9/4/2020	NT	NT	NT	NT
3/6/2021	50.7	NT	NT	yes
9/7/2021	Dry	Dry	Dry	Dry
3/28/2022	12.2	NT	NT	yes
9/14/2022	Dry	Dry	Dry	Dry
3/20/2023	18.5	NT	NT	yes
9/12/2023	Dry	Dry	Dry	Dry
3/12/2024	Dry	Dry	Dry	Dry
9/30/2024	Dry	Dry	Dry	Dry
3/24/2025	16.9	NT	NT	yes
9/9/2025	Dry	Dry	Dry	Dry

NT = Not Tested
ND = Non-Detected
VOC = Appendix I volatile organic compounds

SRAMP #2

Date	<i>dichlorodifluoromethane</i> ug/L	<i>bis(2-ethylhexyl)phthalate</i> ug/L	<i>beta (BHC)</i> ug/L	VOC (yes/ND)
3/14/2014	<1.0	<6	<0.05	yes
6/10/2014	NT	NT	NT	ND
8/7/2014	NT	NT	NT	ND
9/19/2014	NT	NT	NT	ND
11/13/2014	NT	NT	NT	ND
3/17/2015	NT	NT	NT	ND
9/11/2015	<1.0	<6	<0.05	ND
3/16/2016	<1.0	<6	<0.05	ND
9/8/2016	<1.0	<6	<0.05	ND
3/18/2017	<1.0	<6	<0.05	ND
9/19/2017	dry	dry	dry	dry
3/8/2018	<1.0	NT	NT	ND
9/24/2018	<1.0	NT	NT	ND
3/25/2019	<1.0	NT	NT	ND
9/3/2019	Dry	Dry	Dry	Dry
3/26/2020	<1.0	NT	NT	ND
9/4/2020	<1.0	NT	NT	ND
3/6/2021	<1.0	NT	NT	ND
9/7/2021	Dry	Dry	Dry	Dry
3/28/2022	<1.0	NT	NT	ND
9/14/2022	Dry	Dry	Dry	Dry
3/20/2023	<1.0	NT	NT	ND
9/12/2023	Dry	Dry	Dry	Dry
3/12/2024	<1.0	NT	NT	ND
9/30/2024	Dry	Dry	Dry	Dry
3/24/2025	<1.0	NT	NT	ND
9/9/2025	Dry	Dry	Dry	Dry

NT = Not Tested

ND = Non-Detected

VOC = Appendix I volatile organic compounds

MW98-25

Date	dichlorodifluoromethane ug/L	bis(2- ethylhexyl)phthalate ug/L	beta (BHC) ug/L	VOC (yes/ND)
3/17/2008	NT	NT	NT	yes
6/4/2008	NT	NT	NT	yes
7/22/2008	6.2	<6.0	<0.05	yes
9/12/2008	2.6	<6.0	0.14	yes
12/11/2008	<1.0	13.0	<0.05	yes
3/4/2009	21.6	<6.0	<0.05	yes
9/21/2009	16.6	<6.0	<0.05	yes
3/25/2010	34.6	<6.0	<0.05	yes
9/25/2010	28.2	<6.0	<0.05	yes
3/30/2011	32.0	<6.0	<0.05	yes
9/15/2011	12.6	<6.0	<0.05	yes
3/7/2012	34.5	<6.0	<0.05	yes
9/12/2012	4.2	<6.0	<0.05	yes
3/20/2013	13.0	<6.0	<0.05	yes
9/27/2013	1.3	10.0	<0.05	yes
3/14/2014	1.5	<6.0	0.07	yes
9/19/2014	24.3	<6.0	<0.05	yes
3/17/2015	ND	<6.0	<0.05	yes
9/11/2015	14.7	<6.0	<0.05	yes
3/16/2016	ND	<6.0	<0.05	yes
9/8/2016	6.6	<6.0	<0.05	yes
3/18/2017	18.8	<6.0	<0.05	yes
9/19/2017	6.9	6.0	<0.05	yes
3/8/2018	38.4	NT	NT	yes
9/24/2018	1.6	NT	NT	yes
3/25/2019	3.8	NT	NT	yes
9/3/2019	<1.0	NT	NT	ND
3/26/2020	19.4	NT	NT	yes
9/4/2020	19.4	NT	NT	yes
3/6/2021	8.6	NT	NT	yes
9/7/2021	4.8	NT	NT	yes
3/28/2022	1.7	NT	NT	yes
9/14/2022	<1.0	<6.0	<0.05	ND
3/20/2023	3.3	NT	NT	yes
9/12/2023	2.1	NT	NT	yes
3/12/2024	<1.0	NT	NT	yes
9/30/2024	<1.0	NT	NT	yes
3/24/2025	2.0	NT	NT	yes
9/9/2025	NT	NT	NT	yes

NT = Not Tested

ND = Non-Detected

VOC = Appendix I volatile organic compounds

MW06-37 and MW06-38 and MW06-39

Date	dichlorodifluoromethane ug/L	bis(2- ethylhexyl)phthalate ug/L	beta (BHC) ug/L	VOC (yes/ND)
3/17/2008	NT	NT	NT	ND
6/4/2008	NT	NT	NT	ND
7/22/2008	<1	<6	<0.05	ND
9/12/2008	<1	<6	<0.05	ND
12/11/2008	<1	<6	<0.05	ND
3/4/2009	NT	NT	NT	ND
9/21/2009	NT	NT	NT	ND
3/25/2010	NT	NT	NT	ND
9/25/2010	NT	NT	NT	ND
3/30/2011	NT	NT	NT	ND
9/15/2011	NT	NT	NT	ND
3/7/2012	NT	NT	NT	ND
9/12/2012	NT	NT	NT	ND
3/20/2013	NT	NT	NT	ND
9/27/2013	NT	NT	NT	ND
3/14/2014	NT	NT	NT	ND
9/19/2014	NT	NT	NT	ND
3/17/2015	NT	NT	NT	ND
9/11/2015	NT	NT	NT	ND
3/16/2016	NT	NT	NT	ND
9/8/2016	NT	NT	NT	ND
3/17/2017	NT	NT	NT	ND
9/19/2017	NT	NT	NT	ND
3/8/2018	NT	NT	NT	ND
9/24/2018	NT	NT	NT	ND
3/25/2019	NT	NT	NT	ND
9/3/2019	NT	NT	NT	ND
3/26/2020	NT	NT	NT	ND
9/4/2020	NT	NT	NT	ND
3/6/2021	NT	NT	NT	ND
9/7/2021	NT	NT	NT	ND
3/28/2022	NT	NT	NT	ND
9/14/2022	NT	NT	NT	ND
3/20/2023	NT	NT	NT	ND
9/12/2023	NT	NT	NT	ND
3/12/2024	NT	NT	NT	ND
9/30/2024	NT	NT	NT	ND
3/24/2025	NT	NT	NT	ND
9/9/2025	NT	NT	NT	ND

NT = Not Tested

ND = Non-Detected

VOC = Appendix I volatile organic compounds

Appendix H

Confidence Interval Evaluation – Corrective Measures

Monitoring Well	Compound	Date	Result (ug/L)	Prediction Limit (ug/L)	95% LCL (ug/L)	95% UCL (ug/L)	GWPS (ug/L)
MW98-25	Cobalt	3/16/16	4.7	1.5	0.000	26.390	3.2
MW98-25	Cobalt	9/8/16	29.1	1.5	0.000	26.390	3.2
MW98-25	Cobalt	3/17/17	14.6	1.5	3.420	27.280	3.2
MW98-25	Cobalt	9/19/17	6.2	4.4	0.495	26.805	3.2
MW98-25	Cobalt	3/8/18	10.3	4.8	3.317	26.783	3.2
MW98-25	Cobalt	9/24/18	11.6	4.8	6.576	14.774	3.2
MW98-25	Cobalt	3/25/19	13.9	4.8	6.701	14.299	3.2
MW98-25	Cobalt	9/3/19	8.5	4.8	8.402	13.748	3.2
MW98-25	Cobalt	3/23/20	22.2	3.2	7.149	20.951	3.2
MW98-25	Cobalt	9/4/20	7.6	3.2	5.164	20.936	3.2
MW98-25	Cobalt	3/9/21	11.7	3.2	4.617	20.383	3.2
MW98-25	Cobalt	9/7/21	12.8	3.2	6.317	20.833	3.2
MW98-25	Cobalt	3/28/22	10.9	5.8	8.115	13.385	5.8
MW98-25	Cobalt	9/14/22	19.4	7.0	9.137	18.263	7.0
MW98-25	Cobalt	3/20/23	11.2	7.0	8.903	18.247	7.0
MW98-25	Cobalt	9/12/23	15.2	7.0	9.473	18.877	7.0
MW98-25	Cobalt	3/12/24	10.7	7.0	9.358	18.892	7.0
MW98-25	Cobalt	9/30/24	11.0	7.0	9.523	14.527	7.0
MW98-25	Cobalt	3/24/25	8.7	7.0	8.187	14.613	7.0
MW98-25	Cobalt	9/9/25	12.3	7.0	8.924	12.426	7.0
MW98-25	Nickel	3/16/16	37.9	14.0	23.843	74.857	100.0
MW98-25	Nickel	9/8/16	81.7	14.0	23.843	74.857	100.0
MW98-25	Nickel	3/17/17	34.3	14.0	20.669	74.381	100.0
MW98-25	Nickel	9/19/17	17.0	14.0	10.332	75.118	100.0
MW98-25	Nickel	3/8/18	20.1	14.0	3.088	73.462	100.0
MW98-25	Nickel	9/24/18	24.6	14.0	15.128	32.872	100.0
MW98-25	Nickel	3/25/19	21.2	14.0	17.036	24.414	100.0
MW98-25	Nickel	9/3/19	9.0	14.0	10.773	26.677	100.0
MW98-25	Nickel	3/23/20	29.9	14.0	10.740	31.610	100.0
MW98-25	Nickel	9/4/20	10.5	14.0	6.113	29.187	100.0
MW98-25	Nickel	3/9/21	16.7	17.3	5.328	27.722	100.0
MW98-25	Nickel	9/7/21	20.4	17.3	9.825	28.925	100.0
MW98-25	Nickel	3/28/22	10.9	33.6	11.402	23.348	100.0
MW98-25	Nickel	9/14/22	24.3	33.6	17.079	24.571	100.0
MW98-25	Nickel	3/20/23	23.4	33.6	20.483	24.517	100.0
MW98-25	Nickel	9/12/23	35.7	17.4	18.882	33.768	100.0
MW98-25	Nickel	3/12/24	23.6	17.4	19.717	33.783	100.0
MW98-25	Nickel	9/30/24	26.5	17.4	20.505	34.095	100.0
MW98-25	Nickel	3/24/25	19.2	17.4	18.042	34.458	100.0
MW98-25	Nickel	9/9/25	27.6	17.4	19.813	28.673	100.0
MW98-25	1,1-DCA	3/16/16	<1.0	1.0	0.5	0.5	140.0
MW98-25	1,1-DCA	9/8/16	<1.0	1.0	0.5	0.5	140.0
MW98-25	1,1-DCA	3/17/17	<1.0	1.0	0.5	0.5	140.0
MW98-25	1,1-DCA	9/19/17	<1.0	1.0	0.5	0.5	140.0
MW98-25	1,1-DCA	3/8/18	<1.0	1.0	0.5	0.5	140.0
MW98-25	1,1-DCA	9/24/18	<1.0	1.0	0.5	0.5	140.0
MW98-25	1,1-DCA	3/25/19	<1.0	1.0	0.5	0.5	140.0
MW98-25	1,1-DCA	9/3/19	<1.0	1.0	0.5	0.5	140.0
MW98-25	1,1-DCA	3/23/20	<1.0	1.0	0.5	0.5	140.0
MW98-25	1,1-DCA	9/4/20	1.1	1.0	0.297	1.003	140.0
MW98-25	1,1-DCA	3/9/21	1.8	1.0	0.248	1.702	140.0
MW98-25	1,1-DCA	9/7/21	2.3	1.0	0.497	2.353	140.0

MW98-25	1,1-DCA	3/28/22	1.5	1.0	1.080	2.270	140.0
MW98-25	1,1-DCA	9/14/22	<1.0	1.0	0.632	2.418	140.0
MW98-25	1,1-DCA	3/20/23	<1.0	1.0	0.620	2.380	140.0
MW98-25	1,1-DCA	9/12/23	1.6	1.0	0.671	1.979	140.0
MW98-25	1,1-DCA	3/12/24	1.1	1.0	0.578	1.872	140.0
MW98-25	1,1-DCA	9/30/24	1.2	1.0	1.054	1.746	140.0
MW98-25	1,1-DCA	3/24/25	1.0	1.0	0.916	1.534	140.0
MW98-25	1,1-DCA	9/9/25	1.0	1.0	0.962	1.188	140.0
MW98-25	1,4-DCB	3/16/16	<1.0	1.0	0.500	0.500	75.0
MW98-25	1,4-DCB	9/8/16	2.1	1.0	0.000	1.841	75.0
MW98-25	1,4-DCB	3/17/17	2.0	1.0	0.221	2.329	75.0
MW98-25	1,4-DCB	9/19/17	1.7	1.0	0.709	2.441	75.0
MW98-25	1,4-DCB	3/8/18	<1.0	1.0	0.709	2.441	75.0
MW98-25	1,4-DCB	9/24/18	2.9	1.0	0.609	2.941	75.0
MW98-25	1,4-DCB	3/25/19	<1.0	1.0	0.049	2.751	75.0
MW98-25	1,4-DCB	9/3/19	<1.0	1.0	0.000	2.512	75.0
MW98-25	1,4-DCB	3/23/20	<1.0	1.0	0.000	2.512	75.0
MW98-25	1,4-DCB	9/4/20	1.3	1.0	0.229	1.171	75.0
MW98-25	1,4-DCB	3/9/21	1.1	1.0	0.365	1.335	75.0
MW98-25	1,4-DCB	9/7/21	2.0	1.0	0.498	1.952	75.0
MW98-25	1,4-DCB	3/28/22	1.2	1.0	0.920	1.880	75.0
MW98-25	1,4-DCB	9/14/22	<1.0	1.0	0.475	1.925	75.0
MW98-25	1,4-DCB	3/20/23	1.2	1.0	0.504	1.946	75.0
MW98-25	1,4-DCB	9/12/23	2.4	1.0	0.397	2.253	75.0
MW98-25	1,4-DCB	3/12/24	1.6	1.0	0.492	2.358	75.0
MW98-25	1,4-DCB	9/30/24	1.8	1.0	1.162	2.338	75.0
MW98-25	1,4-DCB	3/24/25	1.4	1.0	1.292	2.308	75.0
MW98-25	1,4-DCB	9/9/25	2.7	1.0	1.200	2.550	75.0
MW98-25	Acetone	3/16/16	<10	10.0	5.0	5.0	6,300
MW98-25	Acetone	9/8/16	<10	10.0	5.0	5.0	6,300
MW98-25	Acetone	3/17/17	<10	10.0	5.0	5.0	6,300
MW98-25	Acetone	9/19/17	<10	10.0	5.0	5.0	6,300
MW98-25	Acetone	3/8/18	46.5	10.0	0.000	39.783	6,300
MW98-25	Acetone	9/24/18	<10	10.0	0.000	39.783	6,300
MW98-25	Acetone	3/25/19	<10	10.0	0.000	39.783	6,300
MW98-25	Acetone	9/3/19	<10	10.0	0.000	39.783	6,300
MW98-25	Acetone	3/23/20	<10	10.0	5.0	5.0	6,300
MW98-25	Acetone	9/4/20	<10	10.0	5.0	5.0	6,300
MW98-25	Acetone	3/9/21	<10	10.0	5.0	5.0	6,300
MW98-25	Acetone	9/7/21	<10	10.0	5.0	5.0	6,300
MW98-25	Acetone	3/28/22	<10	10.0	5.0	5.0	6,300
MW98-25	Acetone	9/14/22	<10	10.0	5.0	5.0	6,300
MW98-25	Acetone	3/20/23	<10	10.0	5.0	5.0	6,300
MW98-25	Acetone	9/12/23	<10	10.0	5.0	5.0	6,300
MW98-25	Acetone	3/12/24	<10	10.0	5.0	5.0	6,300
MW98-25	Acetone	9/30/24	<10	10.0	5.0	5.0	6,300
MW98-25	Acetone	3/24/25	<10	10.0	5.0	5.0	6,300
MW98-25	Acetone	9/9/25	<10	10.0	5.0	5.0	6,300
MW98-25	Benzene	3/16/16	<1	1.0	0.500	0.500	5.0
MW98-25	Benzene	9/8/16	1.4	1.0	0.128	1.422	5.0
MW98-25	Benzene	3/17/17	<1	1.0	0.128	1.422	5.0
MW98-25	Benzene	9/19/17	<1	1.0	0.128	1.422	5.0
MW98-25	Benzene	3/8/18	1.9	1.0	0.086	2.564	5.0

MW98-25	Benzene	9/24/18	<1	1.0	0.112	1.717	5.0
MW98-25	Benzene	3/25/19	<1	1.0	0.112	1.717	5.0
MW98-25	Benzene	9/3/19	<1	1.0	0.112	1.717	5.0
MW98-25	Benzene	3/23/20	<1	1.0	0.500	0.500	5.0
MW98-25	Benzene	9/4/20	<1	1.0	0.500	0.500	5.0
MW98-25	Benzene	3/9/21	1.6	1.0	0.128	1.422	5.0
MW98-25	Benzene	9/7/21	2.7	1.0	0.086	2.564	5.0
MW98-25	Benzene	3/28/22	1.3	1.0	0.454	2.596	5.0
MW98-25	Benzene	9/14/22	<1	1.0	0.454	2.596	5.0
MW98-25	Benzene	3/20/23	<1	1.0	0.029	2.471	5.0
MW98-25	Benzene	9/12/23	1.4	1.0	0.346	1.504	5.0
MW98-25	Benzene	3/12/24	<1	1.0	0.196	1.254	5.0
MW98-25	Benzene	9/30/24	<1	1.0	0.196	1.254	5.0
MW98-25	Benzene	3/24/25	<1	1.0	0.196	1.254	5.0
MW98-25	Benzene	9/9/25	1.4	1.0	0.196	1.254	5.0
MW98-25	Bis(2-EH)P	3/16/16	<6	6.0	5.0	5.0	6.0
MW98-25	Bis(2-EH)P	9/8/16	<6	6.0	5.0	5.0	6.0
MW98-25	Bis(2-EH)P	3/17/17	<6	6.0	5.0	5.0	6.0
MW98-25	Bis(2-EH)P	9/19/17	6.0	6.0	4.662	5.838	6.0
MW98-25	Bis(2-EH)P	3/8/18	---	6.0	4.662	5.838	6.0
MW98-25	Bis(2-EH)P	9/24/18	---	6.0	4.662	5.838	6.0
MW98-25	Bis(2-EH)P	3/25/19	---	6.0	4.662	5.838	6.0
MW98-25	Bis(2-EH)P	9/3/19	---	6.0	4.662	5.838	6.0
MW98-25	Bis(2-EH)P	3/23/20	---	6.0	4.662	5.838	6.0
MW98-25	Bis(2-EH)P	9/4/20	---	6.0	4.662	5.838	6.0
MW98-25	Bis(2-EH)P	3/9/21	---	6.0	4.662	5.838	6.0
MW98-25	Bis(2-EH)P	9/7/21	---	6.0	4.662	5.838	6.0
MW98-25	Bis(2-EH)P	3/28/22	---	6.0	4.662	5.838	6.0
MW98-25	Bis(2-EH)P	9/14/22	<6	6.0	4.662	5.838	6.0
MW98-25	Bis(2-EH)P	3/20/23	---	6.0	4.662	5.838	6.0
MW98-25	Bis(2-EH)P	9/12/23	---	6.0	4.662	5.838	6.0
MW98-25	Bis(2-EH)P	3/12/24	---	6.0	4.662	5.838	6.0
MW98-25	Bis(2-EH)P	9/30/24	---	6.0	4.662	5.838	6.0
MW98-25	Bis(2-EH)P	3/24/25	---	6.0	4.662	5.838	6.0
MW98-25	Bis(2-EH)P	9/9/25	---	6.0	4.662	5.838	6.0
MW98-25	chlorobenzene	3/16/16	<1	1.0	0.500	0.500	100.0
MW98-25	chlorobenzene	9/8/16	<1	1.0	0.500	0.500	100.0
MW98-25	chlorobenzene	3/17/17	<1	1.0	0.500	0.500	100.0
MW98-25	chlorobenzene	9/19/17	<1	1.0	0.500	0.500	100.0
MW98-25	chlorobenzene	3/8/18	<1	1.0	0.500	0.500	100.0
MW98-25	chlorobenzene	9/24/18	<1	1.0	0.500	0.500	100.0
MW98-25	chlorobenzene	3/25/19	<1	1.0	0.500	0.500	100.0
MW98-25	chlorobenzene	9/3/19	<1	1.0	0.500	0.500	100.0
MW98-25	chlorobenzene	3/23/20	<1	1.0	0.500	0.500	100.0
MW98-25	chlorobenzene	9/4/20	<1	1.0	0.500	0.500	100.0
MW98-25	chlorobenzene	3/9/21	<1	1.0	0.500	0.500	100.0
MW98-25	chlorobenzene	9/7/21	1.0	1.0	0.331	0.919	100.0
MW98-25	chlorobenzene	3/28/22	<1	1.0	0.331	0.919	100.0
MW98-25	chlorobenzene	9/14/22	<1	1.0	0.331	0.919	100.0
MW98-25	chlorobenzene	3/20/23	<1	1.0	0.331	0.919	100.0
MW98-25	chlorobenzene	9/12/23	<1	1.0	0.229	1.171	100.0
MW98-25	chlorobenzene	3/12/24	<1	1.0	0.229	1.171	100.0
MW98-25	chlorobenzene	9/30/24	1.0	1.0	0.361	1.289	100.0

MW98-25	chlorobenzene	3/24/25	<1	1.0	0.361	1.289	100.0
MW98-25	chlorobenzene	9/9/25	1.4	1.0	0.337	1.363	100.0
MW98-25	chloroethane	3/16/16	1.9	1.0	0.027	1.673	2,800
MW98-25	chloroethane	9/8/16	1.0	1.0	0.198	1.752	2,800
MW98-25	chloroethane	3/17/17	<1.0	1.0	0.198	1.752	2,800
MW98-25	chloroethane	9/19/17	<1.0	1.0	0.198	1.752	2,800
MW98-25	chloroethane	3/8/18	1.1	1.0	0.398	1.152	2,800
MW98-25	chloroethane	9/24/18	<1.0	1.0	0.297	1.003	2,800
MW98-25	chloroethane	3/25/19	<1.0	1.0	0.297	1.003	2,800
MW98-25	chloroethane	9/3/19	<1.0	1.0	0.297	1.003	2,800
MW98-25	chloroethane	3/23/20	<1.0	1.0	0.500	0.500	2,800
MW98-25	chloroethane	9/4/20	<1.0	1.0	0.500	0.500	2,800
MW98-25	chloroethane	3/9/21	<1.0	1.0	0.500	0.500	2,800
MW98-25	chloroethane	9/7/21	1.5	1.0	0.162	1.338	2,800
MW98-25	chloroethane	3/28/22	<1.0	1.0	0.162	1.338	2,800
MW98-25	chloroethane	9/14/22	<1.0	1.0	0.162	1.338	2,800
MW98-25	chloroethane	3/20/23	1.7	1.0	0.297	1.803	2,800
MW98-25	chloroethane	9/12/23	1.5	1.0	0.297	1.803	2,800
MW98-25	chloroethane	3/12/24	1.4	1.0	0.650	1.900	2,800
MW98-25	chloroethane	9/30/24	1.0	1.0	1.054	1.746	2,800
MW98-25	chloroethane	3/24/25	<1.0	1.0	0.565	1.635	2,800
MW98-25	chloroethane	9/9/25	1.4	1.0	0.572	1.578	2,800
MW98-25	Cis-1,2-DCE	3/16/16	5.1	1.0	1.940	6.110	70.0
MW98-25	Cis-1,2-DCE	9/8/16	2.9	1.0	1.496	5.754	70.0
MW98-25	Cis-1,2-DCE	3/17/17	2.1	1.0	0.987	4.763	70.0
MW98-25	Cis-1,2-DCE	9/19/17	1.3	1.0	0.926	4.774	70.0
MW98-25	Cis-1,2-DCE	3/8/18	2.5	1.0	1.396	3.004	70.0
MW98-25	Cis-1,2-DCE	9/24/18	2.3	1.0	1.431	2.669	70.0
MW98-25	Cis-1,2-DCE	3/25/19	1.0	1.0	0.909	2.641	70.0
MW98-25	Cis-1,2-DCE	9/3/19	<1.0	1.0	0.425	2.725	70.0
MW98-25	Cis-1,2-DCE	3/23/20	<1.0	1.0	0.075	2.075	70.0
MW98-25	Cis-1,2-DCE	9/4/20	2.0	1.0	0.168	1.832	70.0
MW98-25	Cis-1,2-DCE	3/9/21	2.5	1.0	0.163	2.587	70.0
MW98-25	Cis-1,2-DCE	9/7/21	3.4	1.0	0.672	3.528	70.0
MW98-25	Cis-1,2-DCE	3/28/22	2.5	1.0	1.914	3.286	70.0
MW98-25	Cis-1,2-DCE	9/14/22	<1.0	1.0	0.783	3.667	70.0
MW98-25	Cis-1,2-DCE	3/20/23	2.3	1.0	0.746	3.604	70.0
MW98-25	Cis-1,2-DCE	9/12/23	2.8	1.0	0.805	3.245	70.0
MW98-25	Cis-1,2-DCE	3/12/24	1.4	1.0	0.556	2.944	70.0
MW98-25	Cis-1,2-DCE	9/30/24	2.0	1.0	1.437	2.813	70.0
MW98-25	Cis-1,2-DCE	3/24/25	1.5	1.0	1.173	2.677	70.0
MW98-25	Cis-1,2-DCE	9/9/25	2.4	1.0	1.279	2.371	70.0
MW98-25	DCDFM	3/16/16	<1.0	1.0	0.000	23.702	1000.0
MW98-25	DCDFM	9/8/16	6.6	1.0	0.000	13.490	1000.0
MW98-25	DCDFM	3/17/17	18.8	1.0	0.516	19.784	1000.0
MW98-25	DCDFM	9/19/17	6.9	1.0	0.000	17.207	1000.0
MW98-25	DCDFM	3/8/18	38.4	1.0	0.102	35.248	1000.0
MW98-25	DCDFM	9/24/18	1.6	1.0	0.000	35.622	1000.0
MW98-25	DCDFM	3/25/19	3.8	1.0	0.000	33.010	1000.0
MW98-25	DCDFM	9/3/19	<1.0	1.0	0.000	32.564	1000.0
MW98-25	DCDFM	3/23/20	19.4	1.0	0.000	16.705	1000.0
MW98-25	DCDFM	9/4/20	1.2	1.0	0.000	16.691	1000.0
MW98-25	DCDFM	3/9/21	8.6	1.0	0.000	17.758	1000.0

MW98-25	DCDFM	9/7/21	4.8	1.0	0.000	17.757	1000.0
MW98-25	DCDFM	3/28/22	1.7	1.0	0.063	8.087	1000.0
MW98-25	DCDFM	9/14/22	<1.0	1.0	0.000	8.157	1000.0
MW98-25	DCDFM	3/20/23	3.3	1.0	0.369	4.781	1000.0
MW98-25	DCDFM	9/12/23	2.1	1.0	0.542	3.258	1000.0
MW98-25	DCDFM	3/12/24	<1.0	1.0	0.000	3.201	1000.0
MW98-25	DCDFM	9/30/24	<1.0	1.0	0.000	3.201	1000.0
MW98-25	DCDFM	3/24/25	2.0	1.0	0.221	2.329	1000.0
MW98-25	DCDFM	9/9/25	NT	1.0	0.221	2.329	1000.0
MW98-25	TCFM	3/16/16	<1.0	1.0	0.000	2.763	2000.0
MW98-25	TCFM	9/8/16	4.4	1.0	0.000	3.769	2000.0
MW98-25	TCFM	3/17/17	4.3	1.0	0.000	5.040	2000.0
MW98-25	TCFM	9/19/17	1.6	1.0	0.397	5.003	2000.0
MW98-25	TCFM	3/8/18	2.5	1.0	1.579	4.821	2000.0
MW98-25	TCFM	9/24/18	<1.0	1.0	0.335	4.115	2000.0
MW98-25	TCFM	3/25/19	<1.0	1.0	0.137	2.413	2000.0
MW98-25	TCFM	9/3/19	<1.0	1.0	0.000	2.176	2000.0
MW98-25	TCFM	3/23/20	6.0	1.0	0.000	5.110	2000.0
MW98-25	TCFM	9/4/20	1.0	1.0	0.000	5.149	2000.0
MW98-25	TCFM	3/9/21	2.6	1.0	0.000	5.447	2000.0
MW98-25	TCFM	9/7/21	<1.0	1.0	0.000	5.447	2000.0
MW98-25	TCFM	3/28/22	1.0	1.0	0.200	2.350	2000.0
MW98-25	TCFM	9/14/22	<1.0	1.0	0.000	2.320	2000.0
MW98-25	TCFM	3/20/23	1.2	1.0	0.381	1.219	2000.0
MW98-25	TCFM	9/12/23	1.1	1.0	0.584	1.316	2000.0
MW98-25	TCFM	3/12/24	1.0	1.0	0.584	1.316	2000.0
MW98-25	TCFM	9/30/24	<1.0	1.0	0.584	1.316	2000.0
MW98-25	TCFM	3/24/25	<1.0	1.0	0.398	1.152	2000.0
MW98-25	TCFM	9/9/25	<1.0	1.0	0.331	0.919	2000.0

Monitoring Well	Compound	Date	Result (ug/L)	Prediction Limit (ug/L)	95% LCL (ug/L)	95% UCL (ug/L)	GWPS (ug/L)
SRAMP-1	Cobalt	3/16/16	20.1	1.5	1.671	17.979	3.2
SRAMP-1	Cobalt	9/8/16	7.1	1.5	1.671	17.979	3.2
SRAMP-1	Cobalt	3/17/17	8.1	1.5	0.000	17.929	3.2
SRAMP-1	Cobalt	9/19/17	1.5	4.4	0.000	18.405	3.2
SRAMP-1	Cobalt	3/8/18	Dry	4.8	0.000	18.405	3.2
SRAMP-1	Cobalt	9/24/18	Dry	4.8	0.000	18.405	3.2
SRAMP-1	Cobalt	3/25/19	7.7	4.8	2.460	9.740	3.2
SRAMP-1	Cobalt	9/3/19	8.9	4.8	2.547	10.553	3.2
SRAMP-1	Cobalt	3/23/20	Dry	3.2	2.547	10.553	3.2
SRAMP-1	Cobalt	9/4/20	Dry	3.2	2.547	10.553	3.2
SRAMP-1	Cobalt	3/9/21	2.7	3.2	2.042	8.358	3.2
SRAMP-1	Cobalt	9/7/21	Dry	3.2	2.042	8.358	3.2
SRAMP-1	Cobalt	3/28/22	2.1	5.8	2.042	8.358	5.8
SRAMP-1	Cobalt	9/14/22	Dry	7.0	2.042	8.358	7.0
SRAMP-1	Cobalt	3/20/23	1.8	7.0	0.956	6.794	7.0
SRAMP-1	Cobalt	9/12/23	Dry	7.0	0.956	6.794	7.0
SRAMP-1	Cobalt	3/12/24	Dry	7.0	0.956	6.794	7.0
SRAMP-1	Cobalt	9/30/24	Dry	7.0	0.956	6.794	7.0
SRAMP-1	Cobalt	3/24/25	1.7	7.0	1.685	2.465	7.0
SRAMP-1	Cobalt	9/9/25	Dry	7.0	1.685	2.465	7.0
SRAMP-1	Nickel	3/16/16	27.9	14.0	14.139	30.011	100.0
SRAMP-1	Nickel	9/8/16	24.9	14.0	14.139	30.011	100.0
SRAMP-1	Nickel	3/17/17	23.9	14.0	4.434	30.316	100.0
SRAMP-1	Nickel	9/19/17	6.7	14.0	9.575	32.125	100.0
SRAMP-1	Nickel	3/8/18	Dry	14.0	9.575	32.125	100.0
SRAMP-1	Nickel	9/24/18	Dry	14.0	9.575	32.125	100.0
SRAMP-1	Nickel	3/25/19	18.2	14.0	8.597	28.253	100.0
SRAMP-1	Nickel	9/3/19	26.0	14.0	8.523	28.877	100.0
SRAMP-1	Nickel	3/23/20	Dry	14.0	8.523	28.877	100.0
SRAMP-1	Nickel	9/4/20	Dry	14.0	8.523	28.877	100.0
SRAMP-1	Nickel	3/9/21	6.4	14.0	6.075	22.575	100.0
SRAMP-1	Nickel	9/7/21	Dry	14.0	6.075	22.575	100.0
SRAMP-1	Nickel	3/28/22	7.6	33.6	6.075	22.575	100.0
SRAMP-1	Nickel	9/14/22	Dry	33.6	6.075	22.575	100.0
SRAMP-1	Nickel	3/20/23	7.5	33.6	3.706	20.044	100.0
SRAMP-1	Nickel	9/12/23	Dry	17.4	3.706	20.044	100.0
SRAMP-1	Nickel	3/12/24	Dry	17.4	3.706	20.044	100.0
SRAMP-1	Nickel	9/30/24	Dry	17.4	3.706	20.044	100.0
SRAMP-1	Nickel	3/24/25	6.5	17.4	6.448	7.552	100.0
SRAMP-1	Nickel	9/9/25	Dry	17.4	6.448	7.552	100.0
SRAMP-1	1,1-DCA	3/16/16	<1.0	1.0	0.500	0.500	140.0
SRAMP-1	1,1-DCA	9/8/16	<1.0	1.0	0.500	0.500	140.0
SRAMP-1	1,1-DCA	3/17/17	<1.0	1.0	0.500	0.500	140.0
SRAMP-1	1,1-DCA	9/19/17	<1.0	1.0	0.500	0.500	140.0
SRAMP-1	1,1-DCA	3/8/18	Dry	1.0	0.500	0.500	140.0
SRAMP-1	1,1-DCA	9/24/18	Dry	1.0	0.500	0.500	140.0
SRAMP-1	1,1-DCA	3/25/19	<1.0	1.0	0.500	0.500	140.0
SRAMP-1	1,1-DCA	9/3/19	<1.0	1.0	0.500	0.500	140.0
SRAMP-1	1,1-DCA	3/23/20	Dry	1.0	0.500	0.500	140.0
SRAMP-1	1,1-DCA	9/4/20	Dry	1.0	0.500	0.500	140.0
SRAMP-1	1,1-DCA	3/9/21	2.6	1.0	0.000	2.260	140.0
SRAMP-1	1,1-DCA	9/7/21	Dry	1.0	0.000	2.260	140.0

SRAMP-1	1,1-DCA	3/28/22	1.4	1.0	0.080	2.420	140.0
SRAMP-1	1,1-DCA	9/14/22	Dry	1.0	0.080	2.420	140.0
SRAMP-1	1,1-DCA	3/20/23	1.4	1.0	0.461	2.489	140.0
SRAMP-1	1,1-DCA	9/12/23	Dry	1.0	0.461	2.489	140.0
SRAMP-1	1,1-DCA	3/12/24	Dry	1.0	0.461	2.489	140.0
SRAMP-1	1,1-DCA	9/30/24	Dry	1.0	0.461	2.489	140.0
SRAMP-1	1,1-DCA	3/24/25	<1.0	1.0	0.461	2.489	140.0
SRAMP-1	1,1-DCA	9/9/25	Dry	1.0	0.461	2.489	140.0
SRAMP-1	1,4-DCB	3/16/16	3.9	1.0	0.289	6.211	75.0
SRAMP-1	1,4-DCB	9/8/16	4.6	1.0	2.230	6.320	75.0
SRAMP-1	1,4-DCB	3/17/17	2.7	1.0	0.000	2.344	75.0
SRAMP-1	1,4-DCB	9/19/17	<1.0	1.0	0.811	5.039	75.0
SRAMP-1	1,4-DCB	3/8/18	Dry	1.0	0.811	5.039	75.0
SRAMP-1	1,4-DCB	9/24/18	Dry	1.0	0.811	5.039	75.0
SRAMP-1	1,4-DCB	3/25/19	<1.0	1.0	0.000	4.401	75.0
SRAMP-1	1,4-DCB	9/3/19	<1.0	1.0	0.000	2.344	75.0
SRAMP-1	1,4-DCB	3/23/20	Dry	1.0	0.000	2.344	75.0
SRAMP-1	1,4-DCB	9/4/20	Dry	1.0	0.000	2.344	75.0
SRAMP-1	1,4-DCB	3/9/21	5.8	1.0	0.000	4.942	75.0
SRAMP-1	1,4-DCB	9/7/21	Dry	1.0	0.000	4.942	75.0
SRAMP-1	1,4-DCB	3/28/22	5.0	1.0	0.000	6.300	75.0
SRAMP-1	1,4-DCB	9/14/22	Dry	1.0	0.000	6.300	75.0
SRAMP-1	1,4-DCB	3/20/23	6.5	1.0	1.270	7.630	75.0
SRAMP-1	1,4-DCB	9/12/23	Dry	1.0	1.270	7.630	75.0
SRAMP-1	1,4-DCB	3/12/24	Dry	1.0	1.270	7.630	75.0
SRAMP-1	1,4-DCB	9/30/24	Dry	1.0	1.270	7.630	75.0
SRAMP-1	1,4-DCB	3/24/25	9.1	1.0	4.511	8.689	75.0
SRAMP-1	1,4-DCB	9/9/25	Dry	1.0	4.511	8.689	75.0
SRAMP-1	Benzene	3/16/16	5.0	1.0	0.589	6.561	5.0
SRAMP-1	Benzene	9/8/16	2.2	1.0	1.743	6.257	5.0
SRAMP-1	Benzene	3/17/17	2.0	1.0	0.000	1.757	5.0
SRAMP-1	Benzene	9/19/17	<1.0	1.0	0.217	4.633	5.0
SRAMP-1	Benzene	3/8/18	Dry	1.0	0.217	4.633	5.0
SRAMP-1	Benzene	9/24/18	Dry	1.0	0.217	4.633	5.0
SRAMP-1	Benzene	3/25/19	1.2	1.0	0.557	2.393	5.0
SRAMP-1	Benzene	9/3/19	1.2	1.0	0.504	1.946	5.0
SRAMP-1	Benzene	3/23/20	Dry	1.0	0.504	1.946	5.0
SRAMP-1	Benzene	9/4/20	Dry	1.0	0.504	1.946	5.0
SRAMP-1	Benzene	3/9/21	5.7	1.0	0.000	4.961	5.0
SRAMP-1	Benzene	9/7/21	Dry	1.0	0.000	4.961	5.0
SRAMP-1	Benzene	3/28/22	4.8	1.0	0.441	6.009	5.0
SRAMP-1	Benzene	9/14/22	Dry	1.0	0.441	6.009	5.0
SRAMP-1	Benzene	3/20/23	5.7	1.0	1.830	6.870	5.0
SRAMP-1	Benzene	9/12/23	Dry	1.0	1.830	6.870	5.0
SRAMP-1	Benzene	3/12/24	Dry	1.0	1.830	6.870	5.0
SRAMP-1	Benzene	9/30/24	Dry	1.0	1.830	6.870	5.0
SRAMP-1	Benzene	3/24/25	5.6	1.0	4.937	5.963	5.0
SRAMP-1	Benzene	9/9/25	Dry	1.0	4.937	5.963	5.0
SRAMP-1	Chlorobenzene	3/16/16	1.9	1.0	0.179	2.471	100.0
SRAMP-1	Chlorobenzene	9/8/16	1.4	1.0	0.597	2.503	100.0
SRAMP-1	Chlorobenzene	3/17/17	1.1	1.0	0.297	1.003	100.0
SRAMP-1	Chlorobenzene	9/19/17	<1.0	1.0	0.537	1.913	100.0
SRAMP-1	Chlorobenzene	3/8/18	Dry	1.0	0.537	1.913	100.0

SRAMP-1	Chlorobenzene	9/24/18	Dry	1.0	0.537	1.913	100.0
SRAMP-1	Chlorobenzene	3/25/19	1.5	1.0	0.596	1.654	100.0
SRAMP-1	Chlorobenzene	9/3/19	<1.0	1.0	0.324	1.476	100.0
SRAMP-1	Chlorobenzene	3/23/20	Dry	1.0	0.324	1.476	100.0
SRAMP-1	Chlorobenzene	9/4/20	Dry	1.0	0.324	1.476	100.0
SRAMP-1	Chlorobenzene	3/9/21	1.7	1.0	0.297	1.803	100.0
SRAMP-1	Chlorobenzene	9/7/21	Dry	1.0	0.297	1.803	100.0
SRAMP-1	Chlorobenzene	3/28/22	1.4	1.0	0.650	1.900	100.0
SRAMP-1	Chlorobenzene	9/14/22	Dry	1.0	0.650	1.900	100.0
SRAMP-1	Chlorobenzene	3/20/23	1.7	1.0	0.657	1.993	100.0
SRAMP-1	Chlorobenzene	9/12/23	Dry	1.0	0.657	1.993	100.0
SRAMP-1	Chlorobenzene	3/12/24	Dry	1.0	0.657	1.993	100.0
SRAMP-1	Chlorobenzene	9/30/24	Dry	1.0	0.657	1.993	100.0
SRAMP-1	Chlorobenzene	3/24/25	1.7	1.0	1.301	2.299	100.0
SRAMP-1	Chlorobenzene	9/9/25	Dry	1.0	1.301	2.299	100.0
SRAMP-1	Chloroethane	3/16/16	1.9	1.0	0.258	1.892	2,800.0
SRAMP-1	Chloroethane	9/8/16	2.0	1.0	0.644	2.256	2,800.0
SRAMP-1	Chloroethane	3/17/17	1.6	1.0	0.128	1.422	2,800.0
SRAMP-1	Chloroethane	9/19/17	<1.0	1.0	0.691	2.309	2,800.0
SRAMP-1	Chloroethane	3/8/18	Dry	1.0	0.691	2.309	2,800.0
SRAMP-1	Chloroethane	9/24/18	Dry	1.0	0.691	2.309	2,800.0
SRAMP-1	Chloroethane	3/25/19	2.6	1.0	0.634	2.716	2,800.0
SRAMP-1	Chloroethane	9/3/19	2.5	1.0	0.651	2.949	2,800.0
SRAMP-1	Chloroethane	3/23/20	Dry	1.0	0.651	2.949	2,800.0
SRAMP-1	Chloroethane	9/4/20	Dry	1.0	0.651	2.949	2,800.0
SRAMP-1	Chloroethane	3/9/21	2.6	1.0	0.833	3.267	2,800.0
SRAMP-1	Chloroethane	9/7/21	Dry	1.0	0.833	3.267	2,800.0
SRAMP-1	Chloroethane	3/28/22	1.6	1.0	1.754	2.896	2,800.0
SRAMP-1	Chloroethane	9/14/22	Dry	1.0	1.754	2.896	2,800.0
SRAMP-1	Chloroethane	3/20/23	2.0	1.0	1.629	2.721	2,800.0
SRAMP-1	Chloroethane	9/12/23	Dry	1.0	1.629	2.721	2,800.0
SRAMP-1	Chloroethane	3/12/24	Dry	1.0	1.629	2.721	2,800.0
SRAMP-1	Chloroethane	9/30/24	Dry	1.0	1.629	2.721	2,800.0
SRAMP-1	Chloroethane	3/24/25	1.6	1.0	1.394	2.506	2,800.0
SRAMP-1	Chloroethane	9/9/25	Dry	1.0	1.394	2.506	2,800.0
SRAMP-1	Cis-1,2-DCE	3/16/16	2.5	1.0	0.570	2.980	70.0
SRAMP-1	Cis-1,2-DCE	9/8/16	2.8	1.0	1.591	3.109	70.0
SRAMP-1	Cis-1,2-DCE	3/17/17	2.1	1.0	0.000	1.841	70.0
SRAMP-1	Cis-1,2-DCE	9/19/17	<1.0	1.0	0.770	3.180	70.0
SRAMP-1	Cis-1,2-DCE	3/8/18	Dry	1.0	0.770	3.180	70.0
SRAMP-1	Cis-1,2-DCE	9/24/18	Dry	1.0	0.770	3.180	70.0
SRAMP-1	Cis-1,2-DCE	3/25/19	4.0	1.0	0.631	4.069	70.0
SRAMP-1	Cis-1,2-DCE	9/3/19	2.4	1.0	0.563	3.937	70.0
SRAMP-1	Cis-1,2-DCE	3/23/20	Dry	1.0	0.563	3.937	70.0
SRAMP-1	Cis-1,2-DCE	9/4/20	Dry	1.0	0.563	3.937	70.0
SRAMP-1	Cis-1,2-DCE	3/9/21	4.4	1.0	0.738	4.912	70.0
SRAMP-1	Cis-1,2-DCE	9/7/21	Dry	1.0	0.738	4.912	70.0
SRAMP-1	Cis-1,2-DCE	3/28/22	3.0	1.0	2.374	4.526	70.0
SRAMP-1	Cis-1,2-DCE	9/14/22	Dry	1.0	2.374	4.526	70.0
SRAMP-1	Cis-1,2-DCE	3/20/23	3.0	1.0	2.202	4.198	70.0
SRAMP-1	Cis-1,2-DCE	9/12/23	Dry	1.0	2.202	4.198	70.0
SRAMP-1	Cis-1,2-DCE	3/12/24	Dry	1.0	2.202	4.198	70.0
SRAMP-1	Cis-1,2-DCE	9/30/24	Dry	1.0	2.202	4.198	70.0

SRAMP-1	Cis-1,2-DCE	3/24/25	2.5	1.0	2.263	4.187	70.0
SRAMP-1	Cis-1,2-DCE	9/9/25	Dry	1.0	2.263	4.187	70.0
SRAMP-1	DCDFM	3/16/16	16.5	1.0	0.000	38.018	1000.0
SRAMP-1	DCDFM	9/8/16	40.7	1.0	12.292	44.958	1000.0
SRAMP-1	DCDFM	3/17/17	34.8	1.0	0.000	29.248	1000.0
SRAMP-1	DCDFM	9/19/17	3.1	1.0	3.533	44.017	1000.0
SRAMP-1	DCDFM	3/8/18	Dry	1.0	3.533	44.017	1000.0
SRAMP-1	DCDFM	9/24/18	Dry	1.0	3.533	44.017	1000.0
SRAMP-1	DCDFM	3/25/19	38.4	1.0	8.545	49.955	1000.0
SRAMP-1	DCDFM	9/3/19	<1.0	1.0	0.000	42.930	1000.0
SRAMP-1	DCDFM	3/23/20	Dry	1.0	0.000	42.930	1000.0
SRAMP-1	DCDFM	9/4/20	Dry	1.0	0.000	42.930	1000.0
SRAMP-1	DCDFM	3/9/21	50.7	1.0	0.000	52.829	1000.0
SRAMP-1	DCDFM	9/7/21	Dry	1.0	0.000	52.829	1000.0
SRAMP-1	DCDFM	3/28/22	12.2	1.0	0.000	52.643	1000.0
SRAMP-1	DCDFM	9/14/22	Dry	1.0	0.000	52.643	1000.0
SRAMP-1	DCDFM	3/20/23	18.4	1.0	0.000	45.727	1000.0
SRAMP-1	DCDFM	9/12/23	Dry	1.0	0.000	45.727	1000.0
SRAMP-1	DCDFM	3/12/24	Dry	1.0	0.000	45.727	1000.0
SRAMP-1	DCDFM	9/30/24	Dry	1.0	0.000	45.727	1000.0
SRAMP-1	DCDFM	3/24/25	16.9	1.0	3.809	45.291	1000.0
SRAMP-1	DCDFM	9/9/25	Dry	1.0	3.809	45.291	1000.0
SRAMP-1	TCFM	3/16/16	39.1	1.0	0.000	33.549	2000.0
SRAMP-1	TCFM	9/8/16	24.2	1.0	0.000	38.196	2000.0
SRAMP-1	TCFM	3/17/17	17.9	1.0	0.000	15.084	2000.0
SRAMP-1	TCFM	9/19/17	2.1	1.0	2.779	38.851	2000.0
SRAMP-1	TCFM	3/8/18	Dry	1.0	2.779	38.851	2000.0
SRAMP-1	TCFM	9/24/18	Dry	1.0	2.779	38.851	2000.0
SRAMP-1	TCFM	3/25/19	22.5	1.0	4.824	28.526	2000.0
SRAMP-1	TCFM	9/3/19	<1.0	1.0	0.000	23.797	2000.0
SRAMP-1	TCFM	3/23/20	Dry	1.0	0.000	23.797	2000.0
SRAMP-1	TCFM	9/4/20	Dry	1.0	0.000	23.797	2000.0
SRAMP-1	TCFM	3/9/21	28.0	1.0	0.000	29.771	2000.0
SRAMP-1	TCFM	9/7/21	Dry	1.0	0.000	29.771	2000.0
SRAMP-1	TCFM	3/28/22	8.1	1.0	0.000	29.699	2000.0
SRAMP-1	TCFM	9/14/22	Dry	1.0	0.000	29.699	2000.0
SRAMP-1	TCFM	3/20/23	9.1	1.0	0.000	25.186	2000.0
SRAMP-1	TCFM	9/12/23	Dry	1.0	0.000	25.186	2000.0
SRAMP-1	TCFM	3/12/24	Dry	1.0	0.000	25.186	2000.0
SRAMP-1	TCFM	9/30/24	Dry	1.0	0.000	25.186	2000.0
SRAMP-1	TCFM	3/24/25	11.1	1.0	3.057	25.093	2000.0
SRAMP-1	TCFM	9/9/25	Dry	1.0	3.057	25.093	2000.0

Monitoring Well	Compound	Date	Result (ug/L)	Prediction Limit (ug/L)	95% LCL (ug/L)	95% UCL (ug/L)	GWPS (ug/L)
GU-3	Nickel	9/13/21	15.2	17.4	---	---	100.0
GU-3	Nickel	12/3/21	12.4	17.4	---	---	100.0
GU-3	Nickel	3/28/22	12.7	17.4	---	---	100.0
GU-3	Nickel	9/15/22	21.1	17.4	11.857	18.843	100.0
GU-3	Nickel	3/20/23	submerged	17.4	11.857	18.843	100.0
GU-3	Nickel	9/12/23	submerged	17.4	11.857	18.843	100.0
GU-3	Nickel	3/12/24	submerged	17.4	11.857	18.843	100.0
GU-3	Nickel	9/30/24	36.8	17.4	7.300	34.200	100.0
GU-3	Nickel	12/9/24	23.5	17.4	7.300	34.200	100.0
GU-3	Nickel	3/24/25	30.6	17.4	19.625	36.375	100.0
GU-3	Nickel	9/9/25	submerged	17.4	19.625	36.375	100.0
GU-3	Benzene	9/13/21	1.3	1.0	---	---	5.0
GU-3	Benzene	12/3/21	6.0	1.0	---	---	5.0
GU-3	Benzene	3/28/22	6.2	1.0	---	---	5.0
GU-3	Benzene	9/15/22	6.1	1.0	2.075	7.725	5.0
GU-3	Benzene	3/20/23	submerged	1.0	2.075	7.725	5.0
GU-3	Benzene	9/12/23	submerged	1.0	2.075	7.725	5.0
GU-3	Benzene	3/12/24	submerged	1.0	2.075	7.725	5.0
GU-3	Benzene	9/30/24	6.0	1.0	5.962	6.188	5.0
GU-3	Benzene	3/24/25	7.8	1.0	5.736	8.114	5.0
GU-3	Benzene	9/9/25	submerged	1.0	5.736	8.114	5.0
GU-3	Chlorobenzene	9/13/21	<1.0	1.0	---	---	100.0
GU-3	Chlorobenzene	12/3/21	<1.0	1.0	---	---	100.0
GU-3	Chlorobenzene	3/28/22	1.8	1.0	---	---	100.0
GU-3	Chlorobenzene	9/15/22	1.7	1.0	0.275	1.975	100.0
GU-3	Chlorobenzene	3/20/23	submerged	1.0	0.275	1.975	100.0
GU-3	Chlorobenzene	9/12/23	submerged	1.0	0.275	1.975	100.0
GU-3	Chlorobenzene	3/12/24	submerged	1.0	0.275	1.975	100.0
GU-3	Chlorobenzene	9/30/24	1.3	1.0	0.630	2.020	100.0
GU-3	Chlorobenzene	3/24/25	1.6	1.0	1.346	1.854	100.0
GU-3	Chlorobenzene	9/9/25	submerged	1.0	1.346	1.854	100.0
GU-3	Chloroethane	9/13/21	1.4	1.0	---	---	2,800.0
GU-3	Chloroethane	12/3/21	2.0	1.0	---	---	2,800.0
GU-3	Chloroethane	3/28/22	<1.0	1.0	---	---	2,800.0
GU-3	Chloroethane	9/15/22	1.6	1.0	0.826	1.924	2,800.0
GU-3	Chloroethane	3/20/23	submerged	1.0	0.826	1.924	2,800.0
GU-3	Chloroethane	9/12/23	submerged	1.0	0.826	1.924	2,800.0
GU-3	Chloroethane	3/12/24	submerged	1.0	0.826	1.924	2,800.0
GU-3	Chloroethane	9/30/24	1.3	1.0	1.081	1.969	2,800.0
GU-3	Chloroethane	3/24/25	1.1	1.0	0.931	1.519	2,800.0
GU-3	Chloroethane	9/9/25	submerged	1.0	0.931	1.519	2,800.0
GU-3	Cis-1,2-DCE	9/13/21	1.0	1.0	---	---	70.0
GU-3	Cis-1,2-DCE	12/3/21	10.5	1.0	---	---	70.0
GU-3	Cis-1,2-DCE	3/28/22	<1.0	1.0	---	---	70.0
GU-3	Cis-1,2-DCE	9/15/22	11.9	1.0	0.724	11.226	70.0
GU-3	Cis-1,2-DCE	3/20/23	submerged	1.0	0.724	11.226	70.0
GU-3	Cis-1,2-DCE	9/12/23	submerged	1.0	0.724	11.226	70.0
GU-3	Cis-1,2-DCE	3/12/24	submerged	1.0	0.724	11.226	70.0
GU-3	Cis-1,2-DCE	9/30/24	4.3	1.0	0.896	12.981	70.0
GU-3	Cis-1,2-DCE	3/24/25	3.8	1.0	2.123	10.877	70.0
GU-3	Cis-1,2-DCE	9/9/25	submerged	1.0	2.123	10.877	70.0

GU-3	Ethylbenzene	9/13/21	<1.0	1.0	---	---	2.0
GU-3	Ethylbenzene	12/3/21	<1.0	1.0	---	---	2.0
GU-3	Ethylbenzene	3/28/22	<1.0	1.0	---	---	2.0
GU-3	Ethylbenzene	9/15/22	1.8	1.0	0.060	1.590	2.0
GU-3	Ethylbenzene	3/20/23	submerged	1.0	0.060	1.590	2.0
GU-3	Ethylbenzene	9/12/23	submerged	1.0	0.060	1.590	2.0
GU-3	Ethylbenzene	3/12/24	submerged	1.0	0.060	1.590	2.0
GU-3	Ethylbenzene	9/30/24	<1.0	1.0	0.060	1.590	2.0
GU-3	Ethylbenzene	3/24/25	<1.0	1.0	0.060	1.590	2.0
GU-3	Ethylbenzene	9/9/25	submerged	1.0	0.060	1.590	2.0
GU-3	Vinyl Chloride	9/13/21	<1.0	1.0	---	---	2.0
GU-3	Vinyl Chloride	12/3/21	3.6	1.0	---	---	2.0
GU-3	Vinyl Chloride	3/28/22	3.0	1.0	---	---	2.0
GU-3	Vinyl Chloride	9/15/22	1.9	1.0	0.647	3.853	2.0
GU-3	Vinyl Chloride	3/20/23	submerged	1.0	0.647	3.853	2.0
GU-3	Vinyl Chloride	9/12/23	submerged	1.0	0.647	3.853	2.0
GU-3	Vinyl Chloride	3/12/24	submerged	1.0	0.647	3.853	2.0
GU-3	Vinyl Chloride	9/30/24	1.2	1.0	1.157	3.693	2.0
GU-3	Vinyl Chloride	3/24/25	1.4	1.0	1.186	1.964	2.0
GU-3	Vinyl Chloride	9/9/25	submerged	1.0	1.186	1.964	2.0

Appendix I

Leachate Collection System Performance Evaluation Data

Appendix I.1 - Industrial User Permit



Daniel Scott
City Engineer

April 20, 2021

Board of Supervisors
Boone County Courthouse
201 State Street
Boone, Iowa 50036

RE: Modification of Boone County Landfill Industrial User Permit No. 003.

Dear Board Members:

The City of Boone has modified the Boone County Landfill industrial sewer user permit for ease of understanding. The permit is now classified as a Monitoring permit. Monitoring permits have no limits associated with them and are used as verification of concentration of pollutants in the leachate wastewater. Enclosed with this letter is the Boone County Sanitary Landfill Industrial User Permit.

The enclosed Industrial User Permit No. 003 covers the landfill leachate wastewater discharged from the Boone County Landfill into the City of Boone sewer system. All discharges from this facility and actions and reports relating thereto shall be in accordance with the terms and conditions of this permit.

If you wish to appeal or challenge any conditions imposed in this permit, a petition shall be filed for modification or reissuance in accordance with the requirements of the City of Boone Code of Ordinances, Section 96.23 "WASTEWATER DISCHARGE PERMIT APPEALS" within 30 days of your receipt of this correspondence. Pursuant to Ordinance 96.23, failure to petition for reconsideration of this permit within allocated time is deemed a waiver by the permittee of this right to challenge the terms of this permit.

Signed by: 
City Engineer

Issued Date: 4/21/21

Industrial User Monitoring Permit No. 003

In accordance with all terms and conditions of the City of Boone Code of Ordinances, Chapter 96 and also with any applicable provisions of Federal or State law or regulation, permission is hereby granted to:

Boone County Landfill
1268 224th Lane
Boone, Iowa 50036

For the Contribution of landfill leachate wastewater into the City of Boone sewer system located at 1721 McHose Drive, The City of Boone Water Environment Plant (WEP), wastewater dumping station. This permit granted in conformity with the plans, specifications and other data submitted to the Utilities Superintendent in support of the application filed on 7/1/20, and considered part of this permit.

Effective: January 1, 2021

Expire: December 31, 2025

If the permittee wishes to continue to discharge after the expiration date of this permit, an application must be filed for a renewal permit in accordance with the requirements of the City of Boone Code of Ordinances, Section 96.27 "WASTEWATER DISCHARGE PERMIT REISSUANCE". The application must be received a minimum of 90 days prior to the expiration date of this Permit.

Signed by: _____



City Engineer

Issued Date: _____

4/21/21

PART I, OUTFALLS

During the period of January 1, 2021 to December 31, 2025, the permittee has authorization to discharge Landfill Leachate wastewater into the City of Boone sewer system through the City of Boone WEP, wastewater, receiving station, located at 1721 McHose Drive, Boone, Iowa.

The discharger shall deliver the leachate to the wastewater dumping station in a tanker approved by the City Engineer. The tanker shall be equipped with a discharge device capable of controlling the rate of discharge to the sewer system. Delivery of the leachate shall be at the times the WEP normally staffed.

PART II, DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS

From the period beginning on January 1, 2021, and ending on December 31, 2025, of this permit, the permittee shall monitor the Landfill Leachate wastewater for the following parameters at the indicated frequencies. The permittee shall comply with the effluent monitoring requirements as specified in the following TABLE 1 of this permit.

TABLE 1

Parameters	Units	Monitoring Frequency	Sample Type
Flow - Batch	GPD	Each load	Tanker volume
BOD5	lbs./day	1/20,000 gal	Grab
NH3-N	lbs./day	1/20,000 gal	Grab
pH	STD Units	1/20,000 gal	Grab
TSS	lbs./day	1/20,000 gal	Grab
Arsenic	mg/l	1/6 months	Grab
Barium	mg/l	1/6/ months	Grab
Benzene	mg/l	1/year	Grab
Cadmium	mg/l	1/6 months	Grab
Carbon- tetrachloride	mg/l	1/year	Grab
Chlordane	mg/l	1/year	Grab
Chloride	mg/l	1/year	Grab
Chlorobenzene	mg/l	1/year	Grab
Chloroform	mg/l	1/year	Grab
Chromium, Total	mg/l	1/6 months	Grab
Copper	mg/l	1/6 months	Grab
Cyanide	mg/l	1/6 months	Grab
o-Cresol	mg/l	1/year	Grab
m-Cresol	mg/l	1/year	Grab
p-Cresol	mg/l	1/year	Grab
Cresol	mg/l	1/year	Grab
2,4-D	mg/l	1/year	Grab
1,4-Dichlorobenzene	mg/l	1/year	Grab

PARAMETERS	UNITS	MONITORING	
		FREQUENCIES	SAMPLE TYPES
1,2-Dichloroethane	mg/l	1/year	Grab
1,1-Dichloroethylene	mg/l	1/year	Grab
2,4-Dinitrotoluene	mg/l	1/year	Grab
Endrin	mg/l	1/year	Grab
Heptachlor- epoxide	mg/l	1/year	Grab
Hexa-chlorobenzene	mg/l	1/year	Grab
Hexachlorobutadiene	mg/l	1/year	Grab
Hexachloroethane	mg/l	1/year	Grab
Lead	mg/l	1/6 months	Grab
Lindane	mg/l	1/year	Grab
Mercury	mg/l	1/6 months	Grab
Methoxychlor	mg/l	1/year	Grab
Methyl-ethyl ketone	mg/l	1/year	Grab
Molybdenum	mg/l	1/6 months	Grab
Nickel	mg/l	1/6 months	Grab
Nitrobenzene	mg/l	1/year	Grab
Pentachlorophenol	mg/l	1/year	Grab
Pyridine	mg/l	1/year	Grab
Selenium	mg/l	1/6 months	Grab
Silver	mg/l	1/6 months	Grab
Tetrachloroethylene	mg/l	1/year	Grab
Toxaphene	mg/l	1/year	Grab
Total Phenols	mg/l	1/year	Grab
Trichloroethylene	mg/l	1/year	Grab
2,4,5-Trichlorophenol	mg/l	1/year	Grab
2,4,6-Trichlorophenol	mg/l	1/year	Grab
2,4,5-TP (Silvex)	mg/l	1/year	Grab
Vinyl chloride	mg/l	1/year	Grab
Zinc	mg/l	1/6 months	Grab

BOD5 = 5 day Biological Oxygen Demand

mg/l = milligram per liter

NH₃-N = Ammonia Nitrogen as Nitrogen

GPD = Gallons per day

Grab = grab sample

STD Unit = Standard pH Unit

TSS = Total Suspended Solids

NA = Does not apply

PART III, SPECIAL CONDITIONS

The Boone County Landfill will be required to have the Landfill Leachate wastewater, analyzed for all of the parameters at their respective monitoring frequencies and at each of the leachate containment tanks (with the exception of BOD, NH₃-N, pH and TSS) as specified in Table 1 in PART II, DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS. Samples that are to be analyzed one sample per six month are to be

collected between the months January 1 to June 30 for the first six months of the year, and July 1 to December 31 for the second six month of the same year. A signed report, in accordance with the City of Boone Code of Ordinances, Section 96.19 "APPLICATION SIGNITORIES AND CERTIFICATION", that include monitoring results is to be sent to the City of Boone Engineer's office no later than 15 days after analysis report has been received by the landfill administration.

The City of Boone WEP personnel will be responsible for overseeing the monitoring of the flows, and the sampling of the leachate wastewater discharged from the hauling truck. The samples will be analyzed for BOD, NH₃-N, pH, and TSS. These sample containers will be labeled with a date, time, sample person and leachate tank the truck is discharging. These analyses are used for billing purposes.

The Superintendent may modify a wastewater permit for good cause as describe in City Boone Code of Ordinances, Section 96.24 "WASTEWATER DISCHARGE PERMIT MODIFICATION".

Wastewater discharge permit is non-transferable without prior notification to the City of Boone in accordance with City of Boone Code of Ordinances, Section 96.25 "WASTEWATER DISCHARGE PERMIT TRANSFER".

A user who violates, or continues to violate the wastewater discharge permit, or any other pretreatment standard or requirement shall be liable to the City for a maximum civil penalty of \$1,000 per violation, per day. In the case of a monthly or other long-term average discharge limit, penalties shall occur for each day during the period of the violation. Refer to City of Boone Code of Ordinances, Section 96.52.1A "VIOLATIONS. Civil Penalties".

A user who willfully violates any provision of this chapter, a wastewater permit, or order issued hereunder, or any other pretreatment standard or requirement, shall upon conviction, be guilty of a misdemeanor, and subject to a penalty as prescribed in City of Boone Code of Ordinance, Section 1.14 "STANDARD PENALTIES". The punishment can be a fine of not more than \$500 per violation, per day, or imprisonment for no more than 30 days. Refer to City of Boone Code of Ordinances, Sections 96.52.2A "VIOLATIONS, Criminal Prosecution".

PART IV, STANDARD CONDITIONS

The standard conditions can be found in the City of Boone Code of Ordinances, Chapter 96.

Appendix I.2 – Leachate Volume Hauled

Leachate Volumes Hauled to Boone POTW
Boone County SLF - 2025
TOTAL

TANK 1	79,557	Gallons
TANK 3	27,334	Gallons
LEACHATE STORAGE LAGOON	899,720	Gallons
TOTAL - 2025	1,006,610	Gallons

Appendix I.3 – Leachate Testing Results

February 12, 2025

John Roberts, Water Environment Plant Supervisor
USW Utility Group - Boone WPCF
P.O. Box 550
1721 McHose Park Drive
Boone, Iowa 50036

RE: First Semester 2025 (January 1, 2025 to June 30, 2025)
Leachate Sampling Results
Boone Co SLF
08-SDP-1-75P

Mr. Roberts:

Attached find the Keystone Analytical Report for the January 23, 2025 Leachate Tank and Lagoon Sampling Episode. Samples were collected from two (2) leachate tanks and the lagoon on site:

Leachate Tank #1
Leachate Tank #3
Lagoon (Load Out Manhole)

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to ensure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Mr. John Roosa
Landfill Administrator-Authorized Representative
Boone County Landfill

Date

cc: *Todd Whipple, HLW Engineering*



Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

1IA1692

Project Description

Boone CO SLF-1/6 mo Leachate

For:

Todd Whipple

HLW Engineering

204 West Broad St

Story City, IA 50248

Heather Murphy

Customer Relationship Specialist

Thursday, February 6, 2025

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

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

Microbac Laboratories, Inc.

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Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

1IA1692

HLW Engineering

Todd Whipple
204 West Broad St
Story City, IA 50248

Project Name: Boone CO SLF-1/6 mo Leachate

Project / PO Number: N/A
Received: 01/24/2025
Reported: 02/06/2025

Sample Summary Report

<u>Sample Name</u>	<u>Laboratory ID</u>	<u>Client Matrix</u>	<u>Sample Type</u>	<u>Sample Begin</u>	<u>Sample Taken</u>	<u>Lab Received</u>
Leachate Tank #1	1IA1692-01	Aqueous	GRAB		01/23/25 12:24	01/24/25 11:36
Leachate Tank #3	1IA1692-02	Aqueous	GRAB		01/23/25 12:40	01/24/25 11:36
Lagoon	1IA1692-03	Aqueous	GRAB		01/23/25 12:14	01/24/25 11:36



Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

11A1692

Analytical Testing Parameters

Client Sample ID:	Leachate Tank #1	Collected By:	JGH
Sample Matrix:	Aqueous	Collection Date:	01/23/2025 12:24
Lab Sample ID:	11A1692-01		

Determination of Conventional Chemistry Parameters	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
4500CN-E								
Cyanide, total	<0.005	0.005	mg/L	1		02/03/25 0805	02/03/25 1602	CES
EPA 150.1								
pH	6.7	0.5	pH	1	H4	01/27/25 1100	01/27/25 1328	BSS
SM 5210 B-2016								
BOD (5 day)	7	6	mg/L	3		01/24/25 1506	01/24/25 1752	MND
TIMBERLINE								
Nitrogen, Ammonia	48.5	1.00	mg/L	10		01/28/25 1221	01/28/25 1503	SDF
USGS I-3765-85								
Total Suspended Solids (TSS)	12	5	mg/L	5		01/28/25 1412	01/29/25 0950	LAW
Determination of Total Metals	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
245.1								
Mercury, total	<0.00050	0.00050	mg/L	1		01/29/25 1020	01/30/25 1304	JAR
EPA 200.8, Rv. 5.4 (1994)								
Arsenic, total	0.0021	0.0020	mg/L	4		01/27/25 1558	01/29/25 1853	RVV
Barium, total	0.373	0.0020	mg/L	4		01/27/25 1558	01/29/25 1853	ZZZ
Cadmium, total	<0.0002	0.0002	mg/L	4		01/27/25 1558	01/29/25 1853	ZZZ
Chromium, total	0.0038	0.0020	mg/L	4		01/27/25 1558	01/29/25 1853	ZZZ
Copper, total	0.0028	0.0020	mg/L	4		01/27/25 1558	01/29/25 1853	ZZZ
Lead, total	<0.0008	0.0008	mg/L	4		01/27/25 1558	01/29/25 1853	ZZZ
Molybdenum, total	<0.0020	0.0020	mg/L	4		01/27/25 1558	01/29/25 1853	ZZZ
Nickel, total	0.0384	0.0040	mg/L	4		01/27/25 1558	01/29/25 1853	ZZZ
Selenium, total	<0.0040	0.0040	mg/L	4		01/27/25 1558	01/29/25 1853	ZZZ
Silver, total	<0.0020	0.0020	mg/L	4		01/27/25 1558	01/29/25 1853	RVV
Zinc, total	<0.0200	0.0200	mg/L	4		01/27/25 1558	01/29/25 1853	ZZZ

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CERTIFICATE OF ANALYSIS

11A1692

Client Sample ID:	Leachate Tank #3	Collected By:	JGH
Sample Matrix:	Aqueous	Collection Date:	01/23/2025 12:40
Lab Sample ID:	11A1692-02		

Determination of Conventional Chemistry Parameters	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
4500CN-E								
Cyanide, total	<0.005	0.005	mg/L	1		02/03/25 0805	02/03/25 1602	CES
EPA 150.1								
pH	7.0	0.5	pH	1	H4	01/27/25 1100	01/27/25 1328	BSS
SM 5210 B-2016								
BOD (5 day)	21	6	mg/L	3		01/24/25 1506	01/24/25 1755	MND
TIMBERLINE								
Nitrogen, Ammonia	381	10.0	mg/L	100		01/28/25 1221	01/28/25 1533	SDF
USGS I-3765-85								
Total Suspended Solids (TSS)	36	5	mg/L	5		01/28/25 1412	01/29/25 0950	LAW
Determination of Total Metals	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
245.1								
Mercury, total	<0.00050	0.00050	mg/L	1		01/29/25 1020	01/30/25 1414	JAR
EPA 200.8, Rv. 5.4 (1994)								
Arsenic, total	0.0070	0.0020	mg/L	4		01/27/25 1558	01/30/25 1051	ZZZ
Barium, total	0.691	0.0020	mg/L	4		01/27/25 1558	01/30/25 1051	ZZZ
Cadmium, total	<0.0002	0.0002	mg/L	4		01/27/25 1558	01/30/25 1051	ZZZ
Chromium, total	0.0169	0.0020	mg/L	4		01/27/25 1558	01/30/25 1051	ZZZ
Copper, total	<0.0020	0.0020	mg/L	4		01/27/25 1558	01/30/25 1051	ZZZ
Lead, total	0.0023	0.0008	mg/L	4		01/27/25 1558	01/30/25 1051	ZZZ
Molybdenum, total	0.0023	0.0020	mg/L	4		01/27/25 1558	01/30/25 1051	ZZZ
Nickel, total	0.0771	0.0040	mg/L	4		01/27/25 1558	01/30/25 1051	ZZZ
Selenium, total	<0.0040	0.0040	mg/L	4		01/27/25 1558	01/30/25 1051	ZZZ
Silver, total	<0.0020	0.0020	mg/L	4		01/27/25 1558	01/30/25 1051	ZZZ
Zinc, total	<0.0200	0.0200	mg/L	4		01/27/25 1558	01/30/25 1051	ZZZ

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CERTIFICATE OF ANALYSIS

11A1692

Client Sample ID: Lagoon
Sample Matrix: Aqueous
Lab Sample ID: 11A1692-03

Collected By: JGH
Collection Date: 01/23/2025 12:14

Determination of Conventional Chemistry Parameters	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
4500CN-E								
Cyanide, total	<0.005	0.005	mg/L	1		01/30/25 0809	01/31/25 1007	CES
EPA 150.1								
pH	7.2	0.5	pH	1	H4	01/27/25 1100	01/27/25 1328	BSS
SM 5210 B-2016								
BOD (5 day)	26	20	mg/L	10		01/24/25 1506	01/24/25 1801	MND
TIMBERLINE								
Nitrogen, Ammonia	233	10.0	mg/L	100		01/28/25 1221	01/28/25 1506	SDF
USGS I-3765-85								
Total Suspended Solids (TSS)	26	5	mg/L	5		01/28/25 1412	01/29/25 0950	LAW
Determination of Total Metals	Result	RL	Units	DF	Note	Prepared	Analyzed	Analyst
245.1								
Mercury, total	<0.00050	0.00050	mg/L	1		01/29/25 1020	01/30/25 1313	JAR
EPA 200.8, Rv. 5.4 (1994)								
Arsenic, total	0.0154	0.0020	mg/L	4		01/27/25 1558	01/29/25 1917	RVV
Barium, total	1.31	0.0020	mg/L	4		01/27/25 1558	01/29/25 1917	ZZZ
Cadmium, total	<0.0002	0.0002	mg/L	4		01/27/25 1558	01/29/25 1917	ZZZ
Chromium, total	0.0106	0.0020	mg/L	4		01/27/25 1558	01/29/25 1917	ZZZ
Copper, total	<0.0020	0.0020	mg/L	4		01/27/25 1558	01/29/25 1917	ZZZ
Lead, total	<0.0008	0.0008	mg/L	4		01/27/25 1558	01/29/25 1917	ZZZ
Molybdenum, total	0.0028	0.0020	mg/L	4		01/27/25 1558	01/29/25 1917	ZZZ
Nickel, total	0.103	0.0040	mg/L	4		01/27/25 1558	01/29/25 1917	ZZZ
Selenium, total	<0.0040	0.0040	mg/L	4		01/27/25 1558	01/29/25 1917	ZZZ
Silver, total	<0.0020	0.0020	mg/L	4		01/27/25 1558	01/29/25 1917	RVV
Zinc, total	0.0995	0.0200	mg/L	4		01/27/25 1558	01/29/25 1917	ZZZ

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CERTIFICATE OF ANALYSIS

11A1692

Batch Log Summary

Method	Batch	Laboratory ID	Client / Source ID
SM 5210 B-2016	11A1183	11A1183-BLK1	
		11A1183-SRM1	
		11A1183-DUP1	11A1668-01
		11A1692-01	Leachate Tank #1
		11A1692-02	Leachate Tank #3
		11A1692-03	Lagoon
Method	Batch	Laboratory ID	Client / Source ID
EPA 150.1	11A1221	11A1692-03	Lagoon
		11A1692-01	Leachate Tank #1
		11A1692-02	Leachate Tank #3
		11A1221-SRM1	
		11A1221-SRM2	
		11A1221-DUP1	11A1665-02
Method	Batch	Laboratory ID	Client / Source ID
EPA 200.8, Rv. 5.4 (1994)	11A1267	11A1267-BLK1	
		11A1267-BS1	
		11A1267-BS2	
		11A1267-BS3	
		11A1267-BS4	
		11A1267-MS1	11A1641-01
		11A1267-MSD1	11A1641-01
		11A1267-PS1	11A1641-01
		11A1692-01	Leachate Tank #1
		11A1692-03	Lagoon
		11A1692-02	Leachate Tank #3
Method	Batch	Laboratory ID	Client / Source ID
TIMBERLINE	11A1306	11A1306-BLK2	
		11A1306-BS2	
		11A1306-MS2	11A1709-01
		11A1306-MSD2	11A1709-01
		11A1692-01	Leachate Tank #1
		11A1692-03	Lagoon
		11A1692-02	Leachate Tank #3
Method	Batch	Laboratory ID	Client / Source ID
USGS I-3765-85	11A1321	11A1321-BLK1	
		11A1692-01	Leachate Tank #1
		11A1321-BS1	

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CERTIFICATE OF ANALYSIS

11A1692

USGS I-3765-85

11A1321

11A1692-03

Lagoon

11A1321-DUP1

11A1690-01

11A1692-02

Leachate Tank #3

Method	Batch	Laboratory ID	Client / Source ID

245.1

11A1370

11A1370-BLK1

11A1370-BS1

11A1692-01

Leachate Tank #1

11A1370-MS1

11A1692-01

11A1370-MSD1

11A1692-01

11A1692-03

Lagoon

11A1692-02

Leachate Tank #3

Method	Batch	Laboratory ID	Client / Source ID

4500CN-E

11A1422

11A1422-BS1

11A1692-03

Lagoon

11A1422-MS1

11A1690-03

11A1422-MSD1

11A1690-03

11A1422-BLK1

Method	Batch	Laboratory ID	Client / Source ID

4500CN-E

11B0004

11B0004-MS1

11A1641-01

11B0004-MSD1

11A1641-01

11B0004-BLK1

11B0004-BS1

11A1692-01

Leachate Tank #1

11A1692-02

Leachate Tank #3

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

Determination of Conventional Chemistry Parameters	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Batch 11A1183 - General Prep Micro - SM 5210 B-2016

Blank (11A1183-BLK1)

Prepared: 01/24/25 15:06 Analyzed: 01/24/25 16:32

BOD (5 day)	<2	2	mg/L							AC, K

Duplicate (11A1183-DUP1)

Source: 11A1668-01

Prepared: 01/24/25 15:06 Analyzed: 01/24/25 17:19

BOD (5 day)	177	24	mg/L		174			1.45	30	

Reference (11A1183-SRM1)

Prepared: 01/24/25 15:06 Analyzed: 01/24/25 16:46

BOD (5 day)	192	100	mg/L	198		97.2	84.6-115.4			

Batch 11A1221 - Wet Chem Preparation - EPA 150.1

Duplicate (11A1221-DUP1)

Source: 11A1665-02

Prepared: 01/27/25 11:00 Analyzed: 01/27/25 13:28

pH	7.4	0.5	pH		7.4			0.0407	10	

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Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

11A1692

Determination of Conventional Chemistry Parameters	Result	RL	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch 11A1221 - Wet Chem Preparation - EPA 150.1									
Reference (11A1221-SRM1)				Prepared: 01/27/25 11:00 Analyzed: 01/27/25 13:28					
pH	7.0	0.5	pH	7.00	100	98.6-101.4			
Reference (11A1221-SRM2)				Prepared: 01/27/25 11:00 Analyzed: 01/27/25 13:28					
pH	7.0	0.5	pH	7.00	101	98.6-101.4			
Batch 11A1306 - General Prep HPLC/IC - TIMBERLINE									
Blank (11A1306-BLK2)				Prepared: 01/28/25 12:21 Analyzed: 01/28/25 14:36					
Nitrogen, Ammonia	<0.10	0.10	mg/L						
LCS (11A1306-BS2)				Prepared: 01/28/25 12:21 Analyzed: 01/28/25 14:37					
Nitrogen, Ammonia	5.02	0.10	mg/L	5.00	100	90-114			
Matrix Spike (11A1306-MS2)				Source: 11A1709-01 Prepared: 01/28/25 12:21 Analyzed: 01/28/25 14:39					
Nitrogen, Ammonia	5.76	0.10	mg/L	5.00	0.274	110	84-115		
Matrix Spike Dup (11A1306-MSD2)				Source: 11A1709-01 Prepared: 01/28/25 12:21 Analyzed: 01/28/25 14:40					
Nitrogen, Ammonia	5.76	0.10	mg/L	5.00	0.274	110	84-115	0.0885	20
Batch 11A1321 - Wet Chem Preparation - USGS I-3765-85									
Blank (11A1321-BLK1)				Prepared: 01/28/25 14:12 Analyzed: 01/29/25 09:50					
Total Suspended Solids (TSS)	<1	1	mg/L						
LCS (11A1321-BS1)				Prepared: 01/28/25 14:12 Analyzed: 01/29/25 09:50					
Total Suspended Solids (TSS)	12.9	1	mg/L	15.0	86.0	71-110			
Duplicate (11A1321-DUP1)				Source: 11A1690-01 Prepared: 01/28/25 14:12 Analyzed: 01/29/25 09:50					
Total Suspended Solids (TSS)	54.7	7	mg/L		47.3		14.4	30	
Batch 11A1422 - Wet Chem Preparation - 4500CN-E									
Blank (11A1422-BLK1)				Prepared: 01/30/25 08:09 Analyzed: 01/31/25 10:07					
Cyanide, total	<0.005	0.005	mg/L						
LCS (11A1422-BS1)				Prepared: 01/30/25 08:09 Analyzed: 01/31/25 10:07					
Cyanide, total	0.039	0.005	mg/L	0.0600	65.4	64-123			
Matrix Spike (11A1422-MS1)				Source: 11A1690-03 Prepared: 01/30/25 08:09 Analyzed: 01/31/25 10:07					
Cyanide, total	0.041	0.005	mg/L	0.0600	ND	67.8	60-127		
Matrix Spike Dup (11A1422-MSD1)				Source: 11A1690-03 Prepared: 01/30/25 08:09 Analyzed: 01/31/25 10:07					
Cyanide, total	0.040	0.005	mg/L	0.0600	ND	67.4	60-127	0.508	30
Batch 11B0004 - Wet Chem Preparation - 4500CN-E									
Blank (11B0004-BLK1)				Prepared: 02/03/25 08:05 Analyzed: 02/03/25 16:02					
Cyanide, total	<0.005	0.005	mg/L						
LCS (11B0004-BS1)				Prepared: 02/03/25 08:05 Analyzed: 02/03/25 16:02					
Cyanide, total	0.074	0.005	mg/L	0.100	74.0	64-123			

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Determination of Conventional Chemistry Parameters	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 11B0004 - Wet Chem Preparation - 4500CN-E										
Matrix Spike (11B0004-MS1)	Source: 11A1641-01			Prepared: 02/03/25 08:05 Analyzed: 02/03/25 16:02						
Cyanide, total	0.094	0.005	mg/L	0.100	0.024	70.6	60-127			
Matrix Spike Dup (11B0004-MSD1)	Source: 11A1641-01			Prepared: 02/03/25 08:05 Analyzed: 02/03/25 16:02						
Cyanide, total	0.094	0.005	mg/L	0.100	0.024	70.6	60-127	0.00	30	
Determination of Total Metals	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 11A1267 - EPA 200.2 Total ICP-MS - EPA 200.8, Rv. 5.4 (1994)										
Blank (11A1267-BLK1)	Prepared: 01/27/25 15:58 Analyzed: 01/29/25 17:27									
Arsenic, total	<0.0020	0.0020	mg/L							
Barium, total	<0.0020	0.0020	mg/L							
Cadmium, total	<0.0002	0.0002	mg/L							
Chromium, total	<0.0020	0.0020	mg/L							
Copper, total	<0.0020	0.0020	mg/L							
Lead, total	<0.0008	0.0008	mg/L							
Molybdenum, total	<0.0020	0.0020	mg/L							
Nickel, total	<0.0040	0.0040	mg/L							
Selenium, total	<0.0040	0.0040	mg/L							
Silver, total	<0.0020	0.0020	mg/L							
Zinc, total	<0.0200	0.0200	mg/L							
LCS (11A1267-BS1)	Prepared: 01/27/25 15:58 Analyzed: 01/29/25 17:33									
Arsenic, total	0.0908	0.0020	mg/L	0.100		90.8	85-115			
Barium, total	0.101	0.0020	mg/L	0.100		101	85-115			
Cadmium, total	0.0920	0.0002	mg/L	0.100		92.0	85-115			
Chromium, total	0.0924	0.0020	mg/L	0.100		92.4	85-115			
Copper, total	0.0968	0.0020	mg/L	0.100		96.8	85-115			
Lead, total	0.0934	0.0008	mg/L	0.100		93.4	85-115			
Molybdenum, total	0.0939	0.0020	mg/L	0.100		93.9	85-115			
Nickel, total	0.0974	0.0040	mg/L	0.100		97.4	85-115			
Selenium, total	0.0857	0.0040	mg/L	0.100		85.7	85-115			
Silver, total	0.0950	0.0020	mg/L	0.100		95.0	85-115			
Zinc, total	0.0930	0.0200	mg/L	0.100		93.0	85-115			
LCS (11A1267-BS2)	Prepared: 01/27/25 15:58 Analyzed: 01/29/25 17:39									
Arsenic, total	0.0906	0.0020	mg/L	0.100		90.6	85-115			
Barium, total	0.100	0.0020	mg/L	0.100		100	85-115			
Cadmium, total	0.0905	0.0002	mg/L	0.100		90.5	85-115			
Chromium, total	0.0913	0.0020	mg/L	0.100		91.3	85-115			
Copper, total	0.0957	0.0020	mg/L	0.100		95.7	85-115			
Lead, total	0.0918	0.0008	mg/L	0.100		91.8	85-115			
Molybdenum, total	0.0928	0.0020	mg/L	0.100		92.8	85-115			
Nickel, total	0.0978	0.0040	mg/L	0.100		97.8	85-115			
Selenium, total	0.0864	0.0040	mg/L	0.100		86.4	85-115			

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Determination of Total Metals	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 11A1267 - EPA 200.2 Total ICP-MS - EPA 200.8, Rv. 5.4 (1994)										
LCS (11A1267-BS2)				Prepared: 01/27/25 15:58 Analyzed: 01/29/25 17:39						
Silver, total	0.0930	0.0020	mg/L	0.100		93.0	85-115			
Zinc, total	0.0917	0.0200	mg/L	0.100		91.7	85-115			
LCS (11A1267-BS3)				Prepared: 01/27/25 15:58 Analyzed: 01/29/25 17:45						
Arsenic, total	0.0918	0.0020	mg/L	0.100		91.8	85-115			
Barium, total	0.100	0.0020	mg/L	0.100		100	85-115			
Cadmium, total	0.0924	0.0002	mg/L	0.100		92.4	85-115			
Chromium, total	0.0932	0.0020	mg/L	0.100		93.2	85-115			
Copper, total	0.0970	0.0020	mg/L	0.100		97.0	85-115			
Lead, total	0.0952	0.0008	mg/L	0.100		95.2	85-115			
Molybdenum, total	0.0939	0.0020	mg/L	0.100		93.9	85-115			
Nickel, total	0.0968	0.0040	mg/L	0.100		96.8	85-115			
Selenium, total	0.0882	0.0040	mg/L	0.100		88.2	85-115			
Silver, total	0.0958	0.0020	mg/L	0.100		95.8	85-115			
Zinc, total	0.0931	0.0200	mg/L	0.100		93.1	85-115			
LCS (11A1267-BS4)				Prepared: 01/27/25 15:58 Analyzed: 01/29/25 18:04						
Arsenic, total	0.0937	0.0020	mg/L	0.100		93.7	85-115			
Barium, total	0.0992	0.0020	mg/L	0.100		99.2	85-115			
Cadmium, total	0.0911	0.0002	mg/L	0.100		91.1	85-115			
Chromium, total	0.0930	0.0020	mg/L	0.100		93.0	85-115			
Copper, total	0.0971	0.0020	mg/L	0.100		97.1	85-115			
Lead, total	0.0945	0.0008	mg/L	0.100		94.5	85-115			
Molybdenum, total	0.0947	0.0020	mg/L	0.100		94.7	85-115			
Nickel, total	0.0989	0.0040	mg/L	0.100		98.9	85-115			
Selenium, total	0.0886	0.0040	mg/L	0.100		88.6	85-115			
Silver, total	0.0956	0.0020	mg/L	0.100		95.6	85-115			
Zinc, total	0.0939	0.0200	mg/L	0.100		93.9	85-115			
Matrix Spike (11A1267-MS1)				Source: 11A1641-01		Prepared: 01/27/25 15:58 Analyzed: 01/29/25 18:16				
Arsenic, total	0.102	0.0020	mg/L	0.100	0.0054	96.6	70-130			
Barium, total	0.114	0.0020	mg/L	0.100	0.0106	103	70-130			
Cadmium, total	0.0894	0.0002	mg/L	0.100	ND	89.4	70-130			
Chromium, total	0.0929	0.0020	mg/L	0.100	0.0049	87.9	70-130			
Copper, total	0.113	0.0020	mg/L	0.100	0.0264	86.5	70-130			
Lead, total	0.0868	0.0008	mg/L	0.100	ND	86.8	70-130			
Molybdenum, total	0.121	0.0020	mg/L	0.100	0.0185	102	70-130			
Nickel, total	0.104	0.0040	mg/L	0.100	0.0121	91.7	70-130			
Selenium, total	0.0896	0.0040	mg/L	0.100	ND	89.6	70-130			
Silver, total	0.0900	0.0020	mg/L	0.100	ND	90.0	70-130			
Zinc, total	0.770	0.0200	mg/L	0.100	0.709	61.1	70-130			M6
Matrix Spike Dup (11A1267-MSD1)				Source: 11A1641-01		Prepared: 01/27/25 15:58 Analyzed: 01/29/25 18:22				
Arsenic, total	0.103	0.0020	mg/L	0.100	0.0054	97.5	70-130	0.892	20	
Barium, total	0.118	0.0020	mg/L	0.100	0.0106	108	70-130	3.81	20	
Cadmium, total	0.0914	0.0002	mg/L	0.100	ND	91.4	70-130	2.24	20	
Chromium, total	0.0946	0.0020	mg/L	0.100	0.0049	89.7	70-130	1.85	20	

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Determination of Total Metals	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 11A1267 - EPA 200.2 Total ICP-MS - EPA 200.8, Rv. 5.4 (1994)										
Matrix Spike Dup (11A1267-MSD1) Source: 11A1641-01 Prepared: 01/27/25 15:58 Analyzed: 01/29/25 18:22										
Copper, total	0.114	0.0020	mg/L	0.100	0.0264	87.5	70-130	0.960	20	
Lead, total	0.0884	0.0008	mg/L	0.100	ND	88.4	70-130	1.80	20	
Molybdenum, total	0.122	0.0020	mg/L	0.100	0.0185	104	70-130	1.44	20	
Nickel, total	0.108	0.0040	mg/L	0.100	0.0121	96.0	70-130	4.08	20	
Selenium, total	0.0884	0.0040	mg/L	0.100	ND	88.4	70-130	1.34	20	
Silver, total	0.0909	0.0020	mg/L	0.100	ND	90.9	70-130	1.07	20	
Zinc, total	0.787	0.0200	mg/L	0.100	0.709	78.1	70-130	2.18	20	
Post Spike (11A1267-PS1) Source: 11A1641-01 Prepared: 01/27/25 15:58 Analyzed: 01/29/25 18:28										
Arsenic, total	0.0829		mg/L	0.0800	0.0053	97.0	70-130			
Barium, total	0.0923		mg/L	0.0800	0.0103	102	70-130			
Cadmium, total	0.0737		mg/L	0.0800	0.00004	92.1	70-130			
Chromium, total	0.0766		mg/L	0.0800	0.0048	89.7	70-130			
Copper, total	0.0986		mg/L	0.0800	0.0259	90.9	70-130			
Lead, total	0.0703		mg/L	0.0800	0.0004	87.4	70-130			
Molybdenum, total	0.104		mg/L	0.0800	0.0181	108	70-130			
Nickel, total	0.0872		mg/L	0.0800	0.0119	94.2	70-130			
Selenium, total	0.0716		mg/L	0.0800	0.0001	89.3	70-130			
Silver, total	0.0743		mg/L	0.0800	0.0001	92.7	70-130			
Zinc, total	0.753		mg/L	0.0800	0.694	73.0	70-130			
Batch 11A1370 - EPA 7470A Hg Water - 245.1										
Blank (11A1370-BLK1) Prepared: 01/29/25 10:20 Analyzed: 01/30/25 12:59										
Mercury, total	<0.00050	0.00050	mg/L							
LCS (11A1370-BS1) Prepared: 01/29/25 10:20 Analyzed: 01/30/25 13:01										
Mercury, total	0.00233	0.00050	mg/L	0.00250		93.1	85-115			
Matrix Spike (11A1370-MS1) Source: 11A1692-01 Prepared: 01/29/25 10:20 Analyzed: 01/30/25 13:06										
Mercury, total	0.00229	0.00050	mg/L	0.00250	ND	91.5	70-130			
Matrix Spike Dup (11A1370-MSD1) Source: 11A1692-01 Prepared: 01/29/25 10:20 Analyzed: 01/30/25 13:08										
Mercury, total	0.00236	0.00050	mg/L	0.00250	ND	94.2	70-130	2.90	10	

Definitions

AC:	BOD blank = 0.36mg/L
H4:	The test was performed outside of the EPA recommended holding time of 15 minutes.
K:	Sample dilutions did not meet the residual dissolved oxygen criteria of at least 1mg/L.
M6:	Matrix spike recovery is outside of acceptance limits. The analyte concentration is greater than 4X the spiking level.
RL:	Reporting Limit
RPD:	Relative Percent Difference

Cooler Receipt Log

Cooler ID: Default Cooler Temp: 0.0°C



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CERTIFICATE OF ANALYSIS

11A1692

Cooler Inspection Checklist

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

Report Comments

The data and information on this, and other accompanying documents, represents only the sample(s) analyzed. This report is incomplete unless all pages indicated in the footnote are present and an authorized signature is included. The services were provided under and subject to Microbac's standard terms and conditions which can be located and reviewed at <https://www.microbac.com/standard-terms-conditions>.

Reviewed and Approved By:

Heather Murphy
Customer Relationship Specialist
heather.murphy@microbac.com
02/06/25 12:19



SITE INFORMATION

Sampler: JGH
Project: Boone CO SLF-1/6 mo Leachate

REPORT TO

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

INVOICE TO

Accounts Payable
Boone County Sanitary Landfill
1268 224th Lane
Boone, IA 50036

SPECIAL INSTRUCTIONS

None

Turn Around Time

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

LAB USE ONLY

Work Order IA1692
Temperature 0.0
Turn-Cooler: No

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

Number	Sample Identification / Client ID	Matrix	Sample Type	Date	Time	Number of Containers	Analyses		Lab Sample Number
-001	Leachate Tank #1	Aqueous	GRAB	1/23/25	12:24	5	ag-t-200.8 ba-i-200.8 cd-l-200.8 cr-t-200.8 hg-t-245.1 nh3-timberline pb-l-200.8 se-t-200.8 zn-t-200.8	as-t-200.8 bod-5210 cn-t-4500e cu-t-200.8 mo-l-200.8 ni-l-200.8 ph-150.1 tss-i-3765-85	<u>01</u>

Relinquished By J. W. [Signature] Date/Time 1/24/25

Received By _____ Date/Time _____

Relinquished By _____ Date/Time _____

Received for Lab By [Signature] Date/Time 1/24/25 11:36

Remarks:

Original - Lab Copy Yellow - Sampler Copy



SITE INFORMATION

Sampler: Leach
Project: Boone CO SLF-1/6 mo Leachate

REPORT TO

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

INVOICE TO

Accounts Payable
Boone County Sanitary Landfill
1268 224th Lane
Boone, IA 50036

SPECIAL INSTRUCTIONS

None

Turn Around Time

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

LAB USE ONLY

Work Order IA1692
Temperature 0.0
Turn-Cooler: No

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

Number	Sample Identification / Client ID	Matrix	Sample Type	Date	Time	Number of Containers	Analyses		Lab Sample Number
-001	Leachate Tank #3	Aqueous	GRAB	<u>1/23/25</u>	<u>12:40</u>	<u>5</u>	ag-t-200.8 ba-t-200.8 cd-l-200.8 cr-t-200.8 hg-l-245.1 nh3-timberline pb-t-200.8 se-t-200.8 zn-t-200.8	as-t-200.8 bod-5210 cu-l-4500e cu-t-200.8 mo-l-200.8 ni-t-200.8 ph-150.1 iss-i-3765-85	<u>01</u>
-001	Lagoon	Aqueous	GRAB	<u>1/23/25</u>	<u>12:14</u>	<u>5</u>	ag-t-200.8 ba-t-200.8 cd-l-200.8 cr-t-200.8 hg-l-245.1 nh3-timberline pb-t-200.8 se-t-200.8 zn-t-200.8	as-t-200.8 bod-5210 cu-l-4500e cu-t-200.8 mo-l-200.8 ni-t-200.8 ph-150.1 iss-i-3765-85	<u>02</u>

S. Lopez 1/24/25
Relinquished By Date/Time

Received By Date/Time

S. Lopez 1/24/25 11:26
Relinquished By Date/Time
Received for Lab By Date/Time

Original - Lab Copy Yellow - Sampler Copy

Remarks:

July 24, 2025

John Roberts, Water Environment Plant Supervisor
USW Utility Group - Boone WPCF
P.O. Box 550
1721 McHose Park Drive
Boone, Iowa 50036

RE: Second Semester 2025 (July 1, 2025 to December 30, 2025)
Leachate Sampling Results
Boone Co SLF
08-SDP-1-75P

Mr. Roberts:

Attached find the Keystone Analytical Report for the July 8, 2025 Leachate Tank and Lagoon Sampling Episode. Samples were collected from two (2) leachate tanks and the lagoon on site:

Leachate Tank #1
Leachate Tank #3
Lagoon (Load Out Manhole)

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to ensure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.



Mr. John Roosa
Landfill Administrator-Authorized Representative
Boone County Landfill

7/24/2025

Date

cc: Todd Whipple, HLW Engineering



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CERTIFICATE OF ANALYSIS

1IG1049

Project Description

Boone CO SLF-Annual Leachate

For:

Todd Whipple

HLW Engineering

204 West Broad St

Story City, IA 50248

Heather Murphy

Customer Relationship Specialist

Wednesday, July 23, 2025

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

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

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CERTIFICATE OF ANALYSIS

1IG1049

HLW Engineering

Todd Whipple
204 West Broad St
Story City, IA 50248

Project Name: Boone CO SLF-Annual Leachate

Project / PO Number: N/A
Received: 07/09/2025
Reported: 07/23/2025

Sample Summary Report

<u>Sample Name</u>	<u>Laboratory ID</u>	<u>Client Matrix</u>	<u>Sample Type</u>	<u>Sample Begin</u>	<u>Sample Taken</u>	<u>Lab Received</u>
Leachate Tank #1	1IG1049-01	Aqueous	GRAB		07/08/25 09:32	07/09/25 09:28
Leachate Tank #3	1IG1049-02	Aqueous	GRAB		07/08/25 10:54	07/09/25 09:28
Lagoon	1IG1049-03	Aqueous	GRAB		07/08/25 09:53	07/09/25 09:28



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CERTIFICATE OF ANALYSIS

1IG1049

Analytical Testing Parameters

Client Sample ID:	Leachate Tank #1	Collected By:	JGH
Sample Matrix:	Aqueous	Collection Date:	07/08/2025 9:32
Lab Sample ID:	1IG1049-01		

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst

EPA 5030B/EPA 624.1

Vinyl Chloride	<1.0	1.0	ug/L		07/10/25 0000	07/10/25 1452	RAF
1,1-Dichloroethylene	<1.0	1.0	ug/L		07/10/25 0000	07/10/25 1452	RAF
2-Butanone (MEK)	<10.0	10.0	ug/L		07/10/25 0000	07/10/25 1452	RAF
Chloroform	<1.0	1.0	ug/L		07/10/25 0000	07/10/25 1452	RAF
Carbon Tetrachloride	<1.0	1.0	ug/L		07/10/25 0000	07/10/25 1452	RAF
Benzene	<1.0	1.0	ug/L		07/10/25 0000	07/10/25 1452	RAF
1,2-Dichloroethane	<1.0	1.0	ug/L		07/10/25 0000	07/10/25 1452	RAF
Trichloroethylene	<1.0	1.0	ug/L		07/10/25 0000	07/10/25 1452	RAF
Tetrachloroethylene	<1.0	1.0	ug/L		07/10/25 0000	07/10/25 1452	RAF
Chlorobenzene	<1.0	1.0	ug/L		07/10/25 0000	07/10/25 1452	RAF
1,4-Dichlorobenzene	<1.0	1.0	ug/L		07/10/25 0000	07/10/25 1452	RAF
Hexachlorobutadiene	<2.0	2.0	ug/L		07/10/25 0000	07/10/25 1452	RAF
Surrogate: Dibromofluoromethane	77.2	Limit: 59-123	% Rec		07/10/25 0000	07/10/25 1452	RAF
Surrogate: 1,2-Dichloroethane-d4	75.2	Limit: 56-130	% Rec		07/10/25 0000	07/10/25 1452	RAF
Surrogate: Toluene-d8	96.8	Limit: 85-113	% Rec		07/10/25 0000	07/10/25 1452	RAF
Surrogate: 4-Bromofluorobenzene	88.4	Limit: 82-112	% Rec		07/10/25 0000	07/10/25 1452	RAF

Determination of Base/Neutral/Acid Extractable Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst

EPA 3520C/EPA 625.1

Pyridine	<10	10	ug/L		07/14/25 1131	07/17/25 2216	EPP
2-Methylphenol (o-Cresol)	<10	10	ug/L		07/14/25 1131	07/17/25 2216	EPP
(3 & 4)-Methylphenol	<10	10	ug/L		07/14/25 1131	07/17/25 2216	EPP
Hexachloroethane	<10	10	ug/L	Q3	07/14/25 1131	07/17/25 2216	EPP
Nitrobenzene	<10	10	ug/L	Q3	07/14/25 1131	07/17/25 2216	EPP
2,4,6-Trichlorophenol	<10	10	ug/L	Q3	07/14/25 1131	07/17/25 2216	EPP
2,4,5-Trichlorophenol	<50	50	ug/L		07/14/25 1131	07/17/25 2216	EPP
2,4-Dinitrotoluene	<10	10	ug/L		07/14/25 1131	07/17/25 2216	EPP
Hexachlorobenzene	<10	10	ug/L		07/14/25 1131	07/17/25 2216	EPP
Pentachlorophenol	<20	20	ug/L		07/14/25 1131	07/17/25 2216	EPP
Surrogate: 2-Fluorophenol	91.3	Limit: 16-140	% Rec		07/14/25 1131	07/17/25 2216	EPP
Surrogate: Phenol-d6	92.4	Limit: 13-147	% Rec		07/14/25 1131	07/17/25 2216	EPP
Surrogate: Nitrobenzene-d5	87.3	Limit: 17-150	% Rec		07/14/25 1131	07/17/25 2216	EPP
Surrogate: 2-Fluorobiphenyl	82.9	Limit: 15-134	% Rec		07/14/25 1131	07/17/25 2216	EPP
Surrogate: 2,4,6-Tribromophenol	107	Limit: 20-158	% Rec		07/14/25 1131	07/17/25 2216	EPP
Surrogate: Terphenyl-dl4	91.7	Limit: 12-157	% Rec		07/14/25 1131	07/17/25 2216	EPP

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

EPA 615

2,4-D	<2.0	2.0	ug/L		07/15/25 0957	07/21/25 1105	EPP

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CERTIFICATE OF ANALYSIS

1IG1049

Client Sample ID: Leachate Tank #1
Sample Matrix: Aqueous
Lab Sample ID: 1IG1049-01

Collected By: JGH
Collection Date: 07/08/2025 9:32

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

2,4,5-TP (Silvex)	<0.5	0.5	ug/L		07/15/25 0957	07/21/25 1105	EPP
Surrogate: 2,5-Dichlorobenzoic Acid	137	Limit: 31-116	% Rec	S1	07/15/25 0957	07/21/25 1105	EPP

Determination of Organochlorine Insecticides & PCBs	Result	RL	Units	Note	Prepared	Analyzed	Analyst

EPA 608.3 GC-ECD

Gamma-BHC [Lindane]	<0.05	0.05	ug/L		07/15/25 1448	07/21/25 1505	EPP
Heptachlor Epoxide	<0.05	0.05	ug/L		07/15/25 1448	07/21/25 1505	EPP
Endrin	<0.05	0.05	ug/L		07/15/25 1448	07/21/25 1505	EPP
Methoxychlor	<0.05	0.05	ug/L		07/15/25 1448	07/21/25 1505	EPP
Chlordane	<0.10	0.10	ug/L		07/15/25 1448	07/21/25 1505	EPP
Toxaphene	<0.20	0.20	ug/L		07/15/25 1448	07/21/25 1505	EPP
Surrogate: Tetrachloro-m-xylene	69.6	Limit: 10-144	% Rec		07/15/25 1448	07/21/25 1505	EPP

Determination of Conventional Chemistry Parameters	Result	RL	Units	Note	Prepared	Analyzed	Analyst

4500CN-E

Cyanide, total	<0.005	0.005	mg/L		07/15/25 0821	07/15/25 1616	KKJ

EPA 420.1

Phenols, total	<0.035	0.035	mg/L		07/10/25 0754	07/11/25 0929	CES

SM 4500-H+ B-2011

pH	7.6	0.5	pH	H4		07/15/25 0814	BSS

SM 5210 B-2016

BOD (5 day)	<6	6	mg/L		07/09/25 1646	07/09/25 1857	MND

TIMBERLINE

Nitrogen, Ammonia	1.23	0.10	mg/L		07/10/25 1140	07/10/25 1338	SDF

USGS I-3765-85

Total Suspended Solids (TSS)	10	1	mg/L		07/10/25 0712	07/11/25 0806	LAW

Determination of Inorganic Anions	Result	RL	Units	Note	Prepared	Analyzed	Analyst

300.0

Chloride	8.9	5.0	mg/L		07/15/25 0000	07/16/25 0213	BMS

Determination of Total Metals	Result	RL	Units	Note	Prepared	Analyzed	Analyst

245.1

Mercury, total	<0.00050	0.00050	mg/L		07/11/25 1633	07/15/25 1120	JAR

EPA 200.8, Rv. 5.4 (1994)

Arsenic, total	0.0013	0.0010	mg/L		07/09/25 1608	07/10/25 2047	RVV
Barium, total	0.0611	0.0010	mg/L		07/09/25 1608	07/10/25 2047	RVV
Cadmium, total	<0.0002	0.0002	mg/L		07/09/25 1608	07/10/25 2047	RVV
Chromium, total	0.0010	0.0010	mg/L		07/09/25 1608	07/10/25 2047	RVV
Copper, total	<0.0050	0.0050	mg/L		07/09/25 1608	07/10/25 2047	RVV
Lead, total	<0.0005	0.0005	mg/L		07/09/25 1608	07/10/25 2047	RVV

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CERTIFICATE OF ANALYSIS

1IG1049

Client Sample ID:	Leachate Tank #1	Collected By:	JGH
Sample Matrix:	Aqueous	Collection Date:	07/08/2025 9:32
Lab Sample ID:	1IG1049-01		

Determination of Total Metals	Result	RL	Units	Note	Prepared	Analyzed	Analyst
Molybdenum, total	0.0027	0.0010	mg/L		07/09/25 1608	07/10/25 2047	RVV
Nickel, total	0.0026	0.0010	mg/L		07/09/25 1608	07/10/25 2047	RVV
Selenium, total	<0.0020	0.0020	mg/L		07/09/25 1608	07/10/25 2047	RVV
Silver, total	<0.0050	0.0050	mg/L		07/09/25 1608	07/10/25 2047	RVV
Zinc, total	<0.0200	0.0200	mg/L		07/09/25 1608	07/10/25 2047	RVV

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CERTIFICATE OF ANALYSIS

1IG1049

Client Sample ID: Leachate Tank #3
Sample Matrix: Aqueous
Lab Sample ID: 1IG1049-02

Collected By: JGH
Collection Date: 07/08/2025 10:54

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst

EPA 5030B/EPA 624.1

Vinyl Chloride	<1.0	1.0	ug/L		07/10/25 0000	07/10/25 1517	RAF
1,1-Dichloroethylene	<1.0	1.0	ug/L		07/10/25 0000	07/10/25 1517	RAF
2-Butanone (MEK)	<10.0	10.0	ug/L		07/10/25 0000	07/10/25 1517	RAF
Chloroform	<1.0	1.0	ug/L		07/10/25 0000	07/10/25 1517	RAF
Carbon Tetrachloride	<1.0	1.0	ug/L		07/10/25 0000	07/10/25 1517	RAF
Benzene	3.8	1.0	ug/L		07/10/25 0000	07/10/25 1517	RAF
1,2-Dichloroethane	<1.0	1.0	ug/L		07/10/25 0000	07/10/25 1517	RAF
Trichloroethylene	<1.0	1.0	ug/L		07/10/25 0000	07/10/25 1517	RAF
Tetrachloroethylene	<1.0	1.0	ug/L		07/10/25 0000	07/10/25 1517	RAF
Chlorobenzene	3.5	1.0	ug/L		07/10/25 0000	07/10/25 1517	RAF
1,4-Dichlorobenzene	4.8	1.0	ug/L		07/10/25 0000	07/10/25 1517	RAF
Hexachlorobutadiene	<2.0	2.0	ug/L		07/10/25 0000	07/10/25 1517	RAF
Surrogate: Dibromofluoromethane	83.2	Limit: 59-123	% Rec		07/10/25 0000	07/10/25 1517	RAF
Surrogate: 1,2-Dichloroethane-d4	82.5	Limit: 56-130	% Rec		07/10/25 0000	07/10/25 1517	RAF
Surrogate: Toluene-d8	97.5	Limit: 85-113	% Rec		07/10/25 0000	07/10/25 1517	RAF
Surrogate: 4-Bromofluorobenzene	96.1	Limit: 82-112	% Rec		07/10/25 0000	07/10/25 1517	RAF

Determination of Base/Neutral/Acid Extractable Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst

EPA 3520C/EPA 625.1

Pyridine	<10	10	ug/L		07/14/25 1131	07/17/25 2241	EPP
2-Methylphenol (o-Cresol)	<10	10	ug/L		07/14/25 1131	07/17/25 2241	EPP
(3 & 4)-Methylphenol	<10	10	ug/L		07/14/25 1131	07/17/25 2241	EPP
Hexachloroethane	<10	10	ug/L	Q3	07/14/25 1131	07/17/25 2241	EPP
Nitrobenzene	<10	10	ug/L	Q3	07/14/25 1131	07/17/25 2241	EPP
2,4,6-Trichlorophenol	<10	10	ug/L	Q3	07/14/25 1131	07/17/25 2241	EPP
2,4,5-Trichlorophenol	<50	50	ug/L		07/14/25 1131	07/17/25 2241	EPP
2,4-Dinitrotoluene	<10	10	ug/L		07/14/25 1131	07/17/25 2241	EPP
Hexachlorobenzene	<10	10	ug/L		07/14/25 1131	07/17/25 2241	EPP
Pentachlorophenol	<20	20	ug/L		07/14/25 1131	07/17/25 2241	EPP
Surrogate: 2-Fluorophenol	92.2	Limit: 16-140	% Rec		07/14/25 1131	07/17/25 2241	EPP
Surrogate: Phenol-d6	88.4	Limit: 13-147	% Rec		07/14/25 1131	07/17/25 2241	EPP
Surrogate: Nitrobenzene-d5	82.5	Limit: 17-150	% Rec		07/14/25 1131	07/17/25 2241	EPP
Surrogate: 2-Fluorobiphenyl	74.6	Limit: 15-134	% Rec		07/14/25 1131	07/17/25 2241	EPP
Surrogate: 2,4,6-Tribromophenol	105	Limit: 20-158	% Rec		07/14/25 1131	07/17/25 2241	EPP
Surrogate: Terphenyl-dl4	47.3	Limit: 12-157	% Rec		07/14/25 1131	07/17/25 2241	EPP

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

EPA 615

2,4-D	<2.0	2.0	ug/L		07/15/25 0957	07/21/25 1136	EPP
2,4,5-TP (Silvex)	<0.5	0.5	ug/L		07/15/25 0957	07/21/25 1136	EPP
Surrogate: 2,5-Dichlorobenzoic Acid	61.9	Limit: 31-116	% Rec		07/15/25 0957	07/21/25 1136	EPP

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CERTIFICATE OF ANALYSIS

1IG1049

Client Sample ID: Leachate Tank #3
Sample Matrix: Aqueous
Lab Sample ID: 1IG1049-02

Collected By: JGH
Collection Date: 07/08/2025 10:54

Determination of Organochlorine
Insecticides & PCBs

	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 608.3 GC-ECD							
Gamma-BHC [Lindane]	<0.05	0.05	ug/L		07/15/25 1448	07/21/25 1519	EPP
Heptachlor Epoxide	<0.05	0.05	ug/L		07/15/25 1448	07/21/25 1519	EPP
Endrin	<0.05	0.05	ug/L		07/15/25 1448	07/21/25 1519	EPP
Methoxychlor	<0.05	0.05	ug/L		07/15/25 1448	07/21/25 1519	EPP
Chlordane	<0.10	0.10	ug/L		07/15/25 1448	07/21/25 1519	EPP
Toxaphene	<0.20	0.20	ug/L		07/15/25 1448	07/21/25 1519	EPP
Surrogate: Tetrachloro-m-xylene	55.4	Limit: 10-144	% Rec		07/15/25 1448	07/21/25 1519	EPP

Determination of Conventional Chemistry
Parameters

	Result	RL	Units	Note	Prepared	Analyzed	Analyst
4500CN-E							
Cyanide, total	0.005	0.005	mg/L		07/15/25 0821	07/15/25 1616	KKJ
EPA 420.1							
Phenols, total	0.047	0.035	mg/L		07/10/25 0754	07/11/25 0929	CES
SM 4500-H+ B-2011							
pH	7.2	0.5	pH	H4		07/15/25 0814	BSS
SM 5210 B-2016							
BOD (5 day)	19	6	mg/L		07/09/25 1646	07/09/25 1908	MND
TIMBERLINE							
Nitrogen, Ammonia	200	10.0	mg/L		07/10/25 1140	07/10/25 1424	SDF
USGS I-3765-85							
Total Suspended Solids (TSS)	37	1	mg/L		07/10/25 0712	07/11/25 0806	LAW

Determination of Inorganic Anions

	Result	RL	Units	Note	Prepared	Analyzed	Analyst
300.0							
Chloride	2110	50.0	mg/L			07/17/25 1616	BMS

Determination of Total Metals

	Result	RL	Units	Note	Prepared	Analyzed	Analyst
245.1							
Mercury, total	<0.00050	0.00050	mg/L		07/11/25 1633	07/15/25 1122	JAR
EPA 200.8, Rv. 5.4 (1994)							
Arsenic, total	0.0057	0.0010	mg/L		07/09/25 1608	07/10/25 2049	RVV
Barium, total	0.401	0.0010	mg/L		07/09/25 1608	07/10/25 2049	RVV
Cadmium, total	<0.0002	0.0002	mg/L		07/09/25 1608	07/10/25 2049	RVV
Chromium, total	0.0106	0.0010	mg/L		07/09/25 1608	07/10/25 2049	RVV
Copper, total	0.0064	0.0050	mg/L		07/09/25 1608	07/10/25 2049	RVV
Lead, total	0.0017	0.0005	mg/L		07/09/25 1608	07/10/25 2049	RVV
Molybdenum, total	0.0019	0.0010	mg/L		07/09/25 1608	07/10/25 2049	RVV
Nickel, total	0.0425	0.0010	mg/L		07/09/25 1608	07/10/25 2049	RVV
Selenium, total	0.0042	0.0020	mg/L		07/09/25 1608	07/10/25 2049	RVV
Silver, total	<0.0050	0.0050	mg/L		07/09/25 1608	07/10/25 2049	RVV

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CERTIFICATE OF ANALYSIS

1IG1049

Client Sample ID:	Leachate Tank #3	Collected By:	JGH
Sample Matrix:	Aqueous	Collection Date:	07/08/2025 10:54
Lab Sample ID:	1IG1049-02		

Determination of Total Metals	Result	RL	Units	Note	Prepared	Analyzed	Analyst
Zinc, total	0.0212	0.0200	mg/L		07/09/25 1608	07/10/25 2049	RVV



Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

1IG1049

Client Sample ID: Lagoon
Sample Matrix: Aqueous
Lab Sample ID: 1IG1049-03

Collected By: JGH
Collection Date: 07/08/2025 9:53

Determination of Volatile Organic Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst

EPA 5030B/EPA 624.1

Vinyl Chloride	1.7	1.0	ug/L		07/10/25 0000	07/10/25 1541	RAF
1,1-Dichloroethylene	<1.0	1.0	ug/L		07/10/25 0000	07/10/25 1541	RAF
2-Butanone (MEK)	21.7	10.0	ug/L		07/10/25 0000	07/10/25 1541	RAF
Chloroform	<1.0	1.0	ug/L		07/10/25 0000	07/10/25 1541	RAF
Carbon Tetrachloride	<1.0	1.0	ug/L		07/10/25 0000	07/10/25 1541	RAF
Benzene	6.4	1.0	ug/L		07/10/25 0000	07/10/25 1541	RAF
1,2-Dichloroethane	<1.0	1.0	ug/L		07/10/25 0000	07/10/25 1541	RAF
Trichloroethylene	<1.0	1.0	ug/L		07/10/25 0000	07/10/25 1541	RAF
Tetrachloroethylene	<1.0	1.0	ug/L		07/10/25 0000	07/10/25 1541	RAF
Chlorobenzene	<1.0	1.0	ug/L		07/10/25 0000	07/10/25 1541	RAF
1,4-Dichlorobenzene	<1.0	1.0	ug/L		07/10/25 0000	07/10/25 1541	RAF
Hexachlorobutadiene	<2.0	2.0	ug/L		07/10/25 0000	07/10/25 1541	RAF
Surrogate: Dibromofluoromethane	77.8	Limit: 59-123	% Rec		07/10/25 0000	07/10/25 1541	RAF
Surrogate: 1,2-Dichloroethane-d4	75.9	Limit: 56-130	% Rec		07/10/25 0000	07/10/25 1541	RAF
Surrogate: Toluene-d8	96.9	Limit: 85-113	% Rec		07/10/25 0000	07/10/25 1541	RAF
Surrogate: 4-Bromofluorobenzene	93.5	Limit: 82-112	% Rec		07/10/25 0000	07/10/25 1541	RAF

Determination of Base/Neutral/Acid Extractable Compounds	Result	RL	Units	Note	Prepared	Analyzed	Analyst

EPA 3520C/EPA 625.1

Pyridine	<10	10	ug/L		07/14/25 1131	07/17/25 2305	EPP
2-Methylphenol (o-Cresol)	<10	10	ug/L		07/14/25 1131	07/17/25 2305	EPP
(3 & 4)-Methylphenol	43	10	ug/L		07/14/25 1131	07/17/25 2305	EPP
Hexachloroethane	<10	10	ug/L	Q3	07/14/25 1131	07/17/25 2305	EPP
Nitrobenzene	<10	10	ug/L	Q3	07/14/25 1131	07/17/25 2305	EPP
2,4,6-Trichlorophenol	<10	10	ug/L	Q3	07/14/25 1131	07/17/25 2305	EPP
2,4,5-Trichlorophenol	<50	50	ug/L		07/14/25 1131	07/17/25 2305	EPP
2,4-Dinitrotoluene	<10	10	ug/L		07/14/25 1131	07/17/25 2305	EPP
Hexachlorobenzene	<10	10	ug/L		07/14/25 1131	07/17/25 2305	EPP
Pentachlorophenol	<20	20	ug/L		07/14/25 1131	07/17/25 2305	EPP
Surrogate: 2-Fluorophenol	92.9	Limit: 16-140	% Rec		07/14/25 1131	07/17/25 2305	EPP
Surrogate: Phenol-d6	87.4	Limit: 13-147	% Rec		07/14/25 1131	07/17/25 2305	EPP
Surrogate: Nitrobenzene-d5	93.2	Limit: 17-150	% Rec		07/14/25 1131	07/17/25 2305	EPP
Surrogate: 2-Fluorobiphenyl	75.0	Limit: 15-134	% Rec		07/14/25 1131	07/17/25 2305	EPP
Surrogate: 2,4,6-Tribromophenol	101	Limit: 20-158	% Rec		07/14/25 1131	07/17/25 2305	EPP
Surrogate: Terphenyl-dl4	66.5	Limit: 12-157	% Rec		07/14/25 1131	07/17/25 2305	EPP

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

EPA 615

2,4-D	<2.0	2.0	ug/L		07/15/25 0957	07/21/25 1206	EPP
2,4,5-TP (Silvex)	<0.5	0.5	ug/L		07/15/25 0957	07/21/25 1206	EPP
Surrogate: 2,5-Dichlorobenzoic Acid	48.6	Limit: 31-116	% Rec		07/15/25 0957	07/21/25 1206	EPP

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CERTIFICATE OF ANALYSIS

1IG1049

Client Sample ID: Lagoon
Sample Matrix: Aqueous
Lab Sample ID: 1IG1049-03

Collected By: JGH
Collection Date: 07/08/2025 9:53

Determination of Organochlorine
Insecticides & PCBs

	Result	RL	Units	Note	Prepared	Analyzed	Analyst
EPA 608.3 GC-ECD							
Gamma-BHC [Lindane]	<0.05	0.05	ug/L		07/15/25 1448	07/21/25 1601	EPP
Heptachlor Epoxide	<0.05	0.05	ug/L		07/15/25 1448	07/21/25 1601	EPP
Endrin	<0.05	0.05	ug/L		07/15/25 1448	07/21/25 1601	EPP
Methoxychlor	<0.05	0.05	ug/L		07/15/25 1448	07/21/25 1601	EPP
Chlordane	<0.10	0.10	ug/L		07/15/25 1448	07/21/25 1601	EPP
Toxaphene	<0.20	0.20	ug/L		07/15/25 1448	07/21/25 1601	EPP
Surrogate: Tetrachloro-m-xylene	42.2	Limit: 10-144	% Rec		07/15/25 1448	07/21/25 1601	EPP

Determination of Conventional Chemistry
Parameters

	Result	RL	Units	Note	Prepared	Analyzed	Analyst
4500CN-E							
Cyanide, total	0.005	0.005	mg/L		07/15/25 0821	07/15/25 1616	KKJ
EPA 420.1							
Phenols, total	0.051	0.035	mg/L		07/10/25 0754	07/11/25 0929	CES
SM 4500-H+ B-2011							
pH	7.2	0.5	pH	H4		07/15/25 0814	BSS
SM 5210 B-2016							
BOD (5 day)	47	6	mg/L		07/09/25 1646	07/09/25 1852	MND
TIMBERLINE							
Nitrogen, Ammonia	197	10.0	mg/L		07/10/25 1140	07/10/25 1426	SDF
USGS I-3765-85							
Total Suspended Solids (TSS)	58	1	mg/L		07/10/25 0712	07/11/25 0806	LAW

Determination of Inorganic Anions

	Result	RL	Units	Note	Prepared	Analyzed	Analyst
300.0							
Chloride	681	20.0	mg/L		07/15/25 0000	07/16/25 0251	BMS

Determination of Total Metals

	Result	RL	Units	Note	Prepared	Analyzed	Analyst
245.1							
Mercury, total	<0.00050	0.00050	mg/L		07/11/25 1633	07/15/25 1125	JAR
EPA 200.8, Rv. 5.4 (1994)							
Arsenic, total	0.0144	0.0010	mg/L		07/09/25 1608	07/10/25 2052	RVV
Barium, total	1.42	0.0010	mg/L		07/09/25 1608	07/10/25 2052	RVV
Cadmium, total	<0.0002	0.0002	mg/L		07/09/25 1608	07/10/25 2052	RVV
Chromium, total	0.0143	0.0010	mg/L		07/09/25 1608	07/10/25 2052	RVV
Copper, total	<0.0050	0.0050	mg/L		07/09/25 1608	07/10/25 2052	RVV
Lead, total	<0.0005	0.0005	mg/L		07/09/25 1608	07/10/25 2052	RVV
Molybdenum, total	0.0023	0.0010	mg/L		07/09/25 1608	07/10/25 2052	RVV
Nickel, total	0.0839	0.0010	mg/L		07/09/25 1608	07/10/25 2052	RVV
Selenium, total	<0.0020	0.0020	mg/L		07/09/25 1608	07/10/25 2052	RVV
Silver, total	<0.0050	0.0050	mg/L		07/09/25 1608	07/10/25 2052	RVV

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1IG1049

Client Sample ID:	Lagoon	Collected By:	JGH
Sample Matrix:	Aqueous	Collection Date:	07/08/2025 9:53
Lab Sample ID:	1IG1049-03		

Determination of Total Metals	Result	RL	Units	Note	Prepared	Analyzed	Analyst
Zinc, total	0.104	0.0200	mg/L		07/09/25 1608	07/10/25 2052	RVV



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CERTIFICATE OF ANALYSIS

1IG1049

Batch Log Summary

Method	Batch	Laboratory ID	Client / Source ID
EPA 200.8, Rv. 5.4 (1994)	1IG0484	1IG0484-BLK1	
		1IG0484-BS1	
		1IG0484-MS1	1IG0673-02
		1IG0484-MSD1	1IG0673-02
		1IG0484-PS1	1IG0673-02
		1IG1049-01	Leachate Tank #1
		1IG1049-02	Leachate Tank #3
		1IG1049-03	Lagoon
Method	Batch	Laboratory ID	Client / Source ID
SM 5210 B-2016	1IG0493	1IG0493-BLK1	
		1IG0493-SRM1	
		1IG1049-03	Lagoon
		1IG1049-01	Leachate Tank #1
		1IG1049-02	Leachate Tank #3
		1IG0493-DUP1	1IG1048-01
Method	Batch	Laboratory ID	Client / Source ID
USGS I-3765-85	1IG0501	1IG1049-01	Leachate Tank #1
		1IG1049-02	Leachate Tank #3
		1IG0501-BLK1	
		1IG0501-DUP1	1IG1059-01
		1IG1049-03	Lagoon
		1IG0501-BS1	
Method	Batch	Laboratory ID	Client / Source ID
EPA 420.1	1IG0503	1IG1049-01	Leachate Tank #1
		1IG0503-BLK1	
		1IG0503-MSD1	1IG0943-02
		1IG1049-02	Leachate Tank #3
		1IG0503-BS1	
		1IG1049-03	Lagoon
		1IG0503-MS1	1IG0943-02
Method	Batch	Laboratory ID	Client / Source ID
TIMBERLINE	1IG0543	1IG0543-BLK1	
		1IG0543-BS1	
		1IG0543-MS1	1IG1125-02
		1IG0543-MSD1	1IG1125-02
		1IG1049-01	Leachate Tank #1
		1IG1049-02	Leachate Tank #3

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1IG1049

TIMBERLINE	1IG0543	1IG1049-03	Lagoon
Method	Batch	Laboratory ID	Client / Source ID
EPA 624.1	1IG0575	1IG0575-BS1	
		1IG0575-BSD1	
		1IG0575-BLK1	
		1IG1049-01	Leachate Tank #1
		1IG1049-02	Leachate Tank #3
		1IG1049-03	Lagoon
		1IG0575-MS1	1IG0795-01
		1IG0575-MSD1	1IG0795-01
Method	Batch	Laboratory ID	Client / Source ID
TIMBERLINE	1IG0621	1IG0621-BLK2	
		1IG0621-BS2	
		1IG0621-MS2	1IG1157-04
		1IG0621-MSD2	1IG1157-04
Method	Batch	Laboratory ID	Client / Source ID
245.1	1IG0666	1IG0666-BLK1	
		1IG0666-MS1	1IG0669-01
		1IG0666-MSD1	1IG0669-01
		1IG1049-01	Leachate Tank #1
		1IG1049-02	Leachate Tank #3
		1IG1049-03	Lagoon
		1IG0666-BS1	
Method	Batch	Laboratory ID	Client / Source ID
EPA 625.1	1IG0721	1IG0721-BLK1	
		1IG0721-BS1	
		1IG0721-BSD1	
		1IG0721-SRM1	
		1IG1049-01	Leachate Tank #1
		1IG1049-02	Leachate Tank #3
		1IG1049-03	Lagoon
Method	Batch	Laboratory ID	Client / Source ID
SM 4500-H+ B-2011	1IG0775	1IG0775-DUP1	1IG1049-01
		1IG1049-02	Leachate Tank #3
		1IG1049-01	Leachate Tank #1
		1IG0775-SRM2	
		1IG1049-03	Lagoon
		1IG0775-SRM1	
Method	Batch	Laboratory ID	Client / Source ID

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4500CN-E	1IG0778	1IG0778-MSD1	1IG0659-02
		1IG0778-MS1	1IG0659-02
		1IG1049-02	Leachate Tank #3
		1IG1049-01	Leachate Tank #1
		1IG0778-BS1	
		1IG0778-BLK1	
		1IG1049-03	Lagoon

Method	Batch	Laboratory ID	Client / Source ID
EPA 615	1IG0792	1IG0792-BLK1	
		1IG1049-01	Leachate Tank #1
		1IG1049-02	Leachate Tank #3
		1IG1049-03	Lagoon
		1IG0792-BS1	
		1IG0792-BSD1	

Method	Batch	Laboratory ID	Client / Source ID
EPA 608.3 GC-ECD	1IG0830	1IG0830-BLK1	
		1IG0830-BS1	
		1IG0830-BSD1	
		1IG1049-01	Leachate Tank #1
		1IG1049-02	Leachate Tank #3
		1IG1049-03	Lagoon

Method	Batch	Laboratory ID	Client / Source ID
300.0	1IG0883	1IG0883-MS1	1IG0892-03
		1IG0883-MSD1	1IG0892-03
		1IG0883-BLK1	
		1IG0883-BS1	
		1IG0883-BSD1	
		1IG1049-01	Leachate Tank #1
		1IG1049-03	Lagoon
		1IG0883-MS2	1IG1146-01
		1IG0883-MSD2	1IG1146-01
		1IG0883-BLK2	
		1IG0883-BS2	
		1IG0883-BSD2	

Method	Batch	Laboratory ID	Client / Source ID
300.0	1IG1089	1IG1089-BLK1	
		1IG1089-BS1	
		1IG1089-BSD1	
		1IG1049-02	Leachate Tank #3
		1IG1089-MS1	1IG1702-01



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1IG1049

300.0

1IG1089

1IG1089-MS2

1IG1579-03

1IG1089-BLK2

1IG1089-BS2

1IG1089-BSD2

1IG1089-MSD2

1IG1579-03

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 1IG0575 - EPA 5030B - EPA 624.1										
Blank (1IG0575-BLK1)										
Prepared: 07/10/25 00:00 Analyzed: 07/10/25 13:15										
Vinyl Chloride	<1.0	1.0	ug/L							
1,1-Dichloroethylene	<1.0	1.0	ug/L							
2-Butanone (MEK)	<10.0	10.0	ug/L							
Chloroform	<1.0	1.0	ug/L							
Carbon Tetrachloride	<1.0	1.0	ug/L							
Benzene	<1.0	1.0	ug/L							
1,2-Dichloroethane	<1.0	1.0	ug/L							
Trichloroethylene	<1.0	1.0	ug/L							
Tetrachloroethylene	<1.0	1.0	ug/L							
Chlorobenzene	<1.0	1.0	ug/L							
1,4-Dichlorobenzene	<1.0	1.0	ug/L							
Hexachlorobutadiene	<2.0	2.0	ug/L							
Surrogate: Dibromofluoromethane	37.5		ug/L	50.2		74.7	59-123			
Surrogate: 1,2-Dichloroethane-d4	34.8		ug/L	50.4		69.0	56-130			
Surrogate: Toluene-d8	50.1		ug/L	50.5		99.2	85-113			
Surrogate: 4-Bromofluorobenzene	45.1		ug/L	50.2		89.9	82-112			
LCS (1IG0575-BS1)										
Prepared: 07/10/25 00:00 Analyzed: 07/10/25 10:25										
Vinyl Chloride	30.80	1.0	ug/L	30.0		103	5-195			
1,1-Dichloroethylene	57.33	1.0	ug/L	50.0		115	50-150			
2-Butanone (MEK)	102.0	10.0	ug/L	100		102	44-134			
Chloroform	53.50	1.0	ug/L	50.0		107	70-135			
Carbon Tetrachloride	54.04	1.0	ug/L	50.0		108	70-130			
Benzene	54.72	1.0	ug/L	50.0		109	65-135			
1,2-Dichloroethane	56.47	1.0	ug/L	50.0		113	70-130			
Trichloroethylene	59.43	1.0	ug/L	50.0		119	65-135			
Tetrachloroethylene	64.92	1.0	ug/L	50.0		130	70-130			
Chlorobenzene	55.26	1.0	ug/L	50.0		111	65-135			
1,4-Dichlorobenzene	54.45	1.0	ug/L	50.0		109	65-135			
Hexachlorobutadiene	58.74	2.0	ug/L	50.0		117	79-155			
Surrogate: Dibromofluoromethane	46.9		ug/L	50.2		93.5	59-123			
Surrogate: 1,2-Dichloroethane-d4	48.9		ug/L	50.4		97.0	56-130			
Surrogate: Toluene-d8	48.2		ug/L	50.5		95.5	85-113			
Surrogate: 4-Bromofluorobenzene	49.5		ug/L	50.2		98.6	82-112			
LCS Dup (1IG0575-BSD1)										
Prepared: 07/10/25 00:00 Analyzed: 07/10/25 10:49										

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Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1IG0575 - EPA 5030B - EPA 624.1										
LCS Dup (1IG0575-BSD1) Prepared: 07/10/25 00:00 Analyzed: 07/10/25 10:49										
Vinyl Chloride	29.34	1.0	ug/L	30.0		97.8	5-195	4.86	26	
1,1-Dichloroethylene	55.09	1.0	ug/L	50.0		110	50-150	3.99	19	
2-Butanone (MEK)	99.34	10.0	ug/L	100		99.3	44-134	2.60	30	
Chloroform	51.72	1.0	ug/L	50.0		103	70-135	3.38	17	
Carbon Tetrachloride	51.37	1.0	ug/L	50.0		103	70-130	5.07	19	
Benzene	51.94	1.0	ug/L	50.0		104	65-135	5.21	17	
1,2-Dichloroethane	55.18	1.0	ug/L	50.0		110	70-130	2.31	15	
Trichloroethylene	56.09	1.0	ug/L	50.0		112	65-135	5.78	18	
Tetrachloroethylene	63.94	1.0	ug/L	50.0		128	70-130	1.52	16	
Chlorobenzene	54.41	1.0	ug/L	50.0		109	65-135	1.55	18	
1,4-Dichlorobenzene	53.85	1.0	ug/L	50.0		108	65-135	1.11	15	
Hexachlorobutadiene	56.44	2.0	ug/L	50.0		113	79-155	3.99	30	
Surrogate: Dibromofluoromethane	47.6		ug/L	50.2		94.9	59-123			
Surrogate: 1,2-Dichloroethane-d4	48.2		ug/L	50.4		95.6	56-130			
Surrogate: Toluene-d8	47.6		ug/L	50.5		94.4	85-113			
Surrogate: 4-Bromofluorobenzene	49.3		ug/L	50.2		98.3	82-112			
Matrix Spike (1IG0575-MS1) Source: 1IG0795-01 Prepared: 07/10/25 00:00 Analyzed: 07/10/25 16:53										
Vinyl Chloride	307.3	10.0	ug/L	300	ND	102	5-251			
1,1-Dichloroethylene	594.2	10.0	ug/L	500	ND	119	5-235			
2-Butanone (MEK)	1150	100	ug/L	1000	14.21	114	57-133			
Chloroform	550.1	10.0	ug/L	500	7.36	109	51-138			
Carbon Tetrachloride	565.1	10.0	ug/L	500	ND	113	70-140			
Benzene	553.5	10.0	ug/L	500	ND	111	37-151			
1,2-Dichloroethane	586.0	10.0	ug/L	500	ND	117	59-155			
Trichloroethylene	601.5	10.0	ug/L	500	ND	120	70-157			
Tetrachloroethylene	683.0	10.0	ug/L	500	ND	137	64-148			
Chlorobenzene	568.3	10.0	ug/L	500	ND	114	37-160			
1,4-Dichlorobenzene	552.2	10.0	ug/L	500	ND	110	18-190			
Hexachlorobutadiene	552.4	20.0	ug/L	500	ND	110	70-130			
Surrogate: Dibromofluoromethane	472		ug/L	502		94.1	59-123			
Surrogate: 1,2-Dichloroethane-d4	493		ug/L	504		97.8	56-130			
Surrogate: Toluene-d8	475		ug/L	505		94.0	85-113			
Surrogate: 4-Bromofluorobenzene	492		ug/L	502		98.0	82-112			
Matrix Spike Dup (1IG0575-MSD1) Source: 1IG0795-01 Prepared: 07/10/25 00:00 Analyzed: 07/10/25 17:18										
Vinyl Chloride	306.8	10.0	ug/L	300	ND	102	5-251	0.163	66	
1,1-Dichloroethylene	581.7	10.0	ug/L	500	ND	116	5-235	2.13	32	
2-Butanone (MEK)	1128	100	ug/L	1000	14.21	111	57-133	1.92	30	
Chloroform	546.9	10.0	ug/L	500	7.36	108	51-138	0.583	54	
Carbon Tetrachloride	550.4	10.0	ug/L	500	ND	110	70-140	2.64	41	
Benzene	551.8	10.0	ug/L	500	ND	110	37-151	0.308	61	
1,2-Dichloroethane	579.2	10.0	ug/L	500	ND	116	59-155	1.17	49	
Trichloroethylene	600.7	10.0	ug/L	500	ND	120	70-157	0.133	48	

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Determination of Volatile Organic Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1IG0575 - EPA 5030B - EPA 624.1										
Matrix Spike Dup (1IG0575-MSD1)	Source: 1IG0795-01			Prepared: 07/10/25 00:00 Analyzed: 07/10/25 17:18						
Tetrachloroethylene	663.8	10.0	ug/L	500	ND	133	64-148	2.85	39	
Chlorobenzene	561.3	10.0	ug/L	500	ND	112	37-160	1.24	53	
1,4-Dichlorobenzene	543.7	10.0	ug/L	500	ND	109	18-190	1.55	57	
Hexachlorobutadiene	556.2	20.0	ug/L	500	ND	111	70-130	0.686	20	
Surrogate: Dibromofluoromethane	471		ug/L	502		93.8	59-123			
Surrogate: 1,2-Dichloroethane-d4	494		ug/L	504		98.2	56-130			
Surrogate: Toluene-d8	481		ug/L	505		95.3	85-113			
Surrogate: 4-Bromofluorobenzene	505		ug/L	502		101	82-112			

Determination of Base/Neutral/Acid Extractable Compounds	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1IG0721 - 3520C BNA Cont Liq - EPA 625.1										
Blank (1IG0721-BLK1)	Prepared: 07/14/25 11:31 Analyzed: 07/17/25 16:32									
Pyridine	<10	10	ug/L							
2-Methylphenol (o-Cresol)	<10	10	ug/L							
(3 & 4)-Methylphenol	<10	10	ug/L							
Hexachloroethane	<10	10	ug/L							
Nitrobenzene	<10	10	ug/L							
2,4,6-Trichlorophenol	<10	10	ug/L							
2,4,5-Trichlorophenol	<50	50	ug/L							
2,4-Dinitrotoluene	<10	10	ug/L							
Hexachlorobenzene	<10	10	ug/L							
Pentachlorophenol	<20	20	ug/L							
Surrogate: 2-Fluorophenol	18.2		ug/L	20.2		89.8	16-140			
Surrogate: Phenol-d6	17.5		ug/L	19.8		88.4	13-147			
Surrogate: Nitrobenzene-d5	16.4		ug/L	19.5		84.0	17-150			
Surrogate: 2-Fluorobiphenyl	15.4		ug/L	19.4		79.2	15-134			
Surrogate: 2,4,6-Tribromophenol	22.8		ug/L	20.5		111	20-158			
Surrogate: Terphenyl-d14	ND		ug/L	12.2		69.1	12-157			

LCS (1IG0721-BS1)	Prepared: 07/14/25 11:31 Analyzed: 07/17/25 16:57									
Pyridine	<10	10	ug/L	10.0		23.2	13-127			
2-Methylphenol (o-Cresol)	<10	10	ug/L	10.0		47.2	35-117			
(3 & 4)-Methylphenol	<10	10	ug/L	10.0		48.7	37-114			
Hexachloroethane	<10	10	ug/L	10.0		31.2	55-120			Q3
Nitrobenzene	<10	10	ug/L	10.0		45.0	54-158			Q3
2,4,6-Trichlorophenol	<10	10	ug/L	10.0		50.0	52-129			Q3
2,4,5-Trichlorophenol	<50	50	ug/L	10.0		55.3	50-121			
2,4-Dinitrotoluene	<10	10	ug/L	10.0		54.5	48-127			
Hexachlorobenzene	<10	10	ug/L	10.0		46.4	8-142			
Pentachlorophenol	<20	20	ug/L	10.0		50.1	38-152			

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CERTIFICATE OF ANALYSIS

1IG1049

Determination of Base/Neutral/Acid Extractable Compounds	Result	RL	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch 1IG0721 - 3520C BNA Cont Liq - EPA 625.1									
LCS (1IG0721-BS1)				Prepared: 07/14/25 11:31 Analyzed: 07/17/25 16:57					
Surrogate: 2-Fluorophenol	11.6		ug/L	20.2		57.3 16-140			
Surrogate: Phenol-d6	11.4		ug/L	19.8		57.6 13-147			
Surrogate: Nitrobenzene-d5	11.0		ug/L	19.5		56.6 17-150			
Surrogate: 2-Fluorobiphenyl	10.1		ug/L	19.4		51.9 15-134			
Surrogate: 2,4,6-Tribromophenol	15.7		ug/L	20.5		76.5 20-158			
Surrogate: Terphenyl-dl4	6.16		ug/L	12.2		50.6 12-157			
LCS Dup (1IG0721-BSD1)				Prepared: 07/14/25 11:31 Analyzed: 07/17/25 17:21					
Pyridine	<10	10	ug/L	10.0		7.00 13-127	107	30	Q3, R1
2-Methylphenol (o-Cresol)	<10	10	ug/L	10.0		31.5 35-117	39.9	30	Q3, R1
(3 & 4)-Methylphenol	<10	10	ug/L	10.0		39.9 37-114	19.9	28	
Hexachloroethane	<10	10	ug/L	10.0		8.20 55-120	117	32	Q3, R1
Nitrobenzene	<10	10	ug/L	10.0		22.1 54-158	68.3	37	Q3, R1
2,4,6-Trichlorophenol	<10	10	ug/L	10.0		67.9 52-129	30.4	35	
2,4,5-Trichlorophenol	<50	50	ug/L	10.0		80.7 50-121	37.4	25	R1
2,4-Dinitrotoluene	<10	10	ug/L	10.0		78.7 48-127	36.3	25	R1
Hexachlorobenzene	<10	10	ug/L	10.0		71.1 8-142	42.0	33	R1
Pentachlorophenol	<20	20	ug/L	10.0		81.6 38-152	47.8	52	
Surrogate: 2-Fluorophenol	5.02		ug/L	20.2		24.8 16-140			
Surrogate: Phenol-d6	6.80		ug/L	19.8		34.3 13-147			
Surrogate: Nitrobenzene-d5	5.03		ug/L	19.5		25.8 17-150			
Surrogate: 2-Fluorobiphenyl	8.50		ug/L	19.4		43.8 15-134			
Surrogate: 2,4,6-Tribromophenol	21.1		ug/L	20.5		103 20-158			
Surrogate: Terphenyl-dl4	8.49		ug/L	12.2		69.7 12-157			
Reference (1IG0721-SRM1)				Prepared: 07/14/25 11:31 Analyzed: 07/17/25 17:46					
Pyridine	<10	10	ug/L	10.0		82.0 80-120			
2-Methylphenol (o-Cresol)	<10	10	ug/L	10.0		87.4 80-120			
(3 & 4)-Methylphenol	<10	10	ug/L	10.0		81.5 80-120			
Hexachloroethane	<10	10	ug/L	10.0		83.5 80-120			
Nitrobenzene	<10	10	ug/L	10.0		85.6 80-120			
2,4,6-Trichlorophenol	<10	10	ug/L	10.0		90.0 80-120			
2,4,5-Trichlorophenol	<50	50	ug/L	10.0		90.6 80-120			
2,4-Dinitrotoluene	<10	10	ug/L	10.0		84.6 80-120			
Hexachlorobenzene	<10	10	ug/L	10.0		85.5 80-120			
Pentachlorophenol	<20	20	ug/L	10.0		104 80-120			
Surrogate: 2-Fluorophenol	22.1		ug/L	20.2		109 16-140			
Surrogate: Phenol-d6	21.2		ug/L	19.8		107 13-147			
Surrogate: Nitrobenzene-d5	21.3		ug/L	19.5		109 17-150			
Surrogate: 2-Fluorobiphenyl	20.1		ug/L	19.4		104 15-134			
Surrogate: 2,4,6-Tribromophenol	24.2		ug/L	20.5		118 20-158			
Surrogate: Terphenyl-dl4	13.2		ug/L	12.2		108 12-157			

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Determination of Chlorinated Phenoxy Herbicides	Result	RL	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch 1IG0792 - EPA 615 Phenoxy - EPA 615									
Blank (1IG0792-BLK1) Prepared: 07/15/25 09:57 Analyzed: 07/21/25 10:35									
2,4-D	<2.0	2.0	ug/L						
2,4,5-TP (Silvex)	<0.5	0.5	ug/L						
Surrogate: 2,5-Dichlorobenzoic Acid	1.44		ug/L	1.81		79.7 31-116			
LCS (1IG0792-BS1) Prepared: 07/15/25 09:57 Analyzed: 07/21/25 12:36									
2,4-D	<2.0	2.0	ug/L	1.00		79.9 16-161			
2,4,5-TP (Silvex)	<0.5	0.5	ug/L	0.500		95.0 35-141			
Surrogate: 2,5-Dichlorobenzoic Acid	1.48		ug/L	1.81		81.7 31-116			
LCS Dup (1IG0792-BSD1) Prepared: 07/15/25 09:57 Analyzed: 07/21/25 13:06									
2,4-D	<2.0	2.0	ug/L	1.00		88.6 16-161	10.3	30	
2,4,5-TP (Silvex)	0.50	0.5	ug/L	0.500		99.6 35-141	4.67	30	
Surrogate: 2,5-Dichlorobenzoic Acid	1.48		ug/L	1.81		81.9 31-116			
Determination of Organochlorine Insecticides & PCBs	Result	RL	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch 1IG0830 - EPA 608 OC/PCB - EPA 608.3 GC-ECD									
Blank (1IG0830-BLK1) Prepared: 07/15/25 14:48 Analyzed: 07/21/25 14:22									
Gamma-BHC [Lindane]	<0.05	0.05	ug/L						
Heptachlor Epoxide	<0.05	0.05	ug/L						
Endrin	<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						
Surrogate: Tetrachloro-m-xylene	0.445		ug/L	0.600		74.1 10-144			
LCS (1IG0830-BS1) Prepared: 07/15/25 14:48 Analyzed: 07/21/25 14:36									
Gamma-BHC [Lindane]	0.183	0.05	ug/L	0.250		73.3 49-129			
Heptachlor Epoxide	0.179	0.05	ug/L	0.250		71.7 50-130			
Endrin	0.241	0.05	ug/L	0.250		96.2 18-171			
Methoxychlor	0.220	0.05	ug/L	0.250		88.0 38-159			
Surrogate: Tetrachloro-m-xylene	0.445		ug/L	0.600		74.1 10-144			
LCS Dup (1IG0830-BSD1) Prepared: 07/15/25 14:48 Analyzed: 07/21/25 14:50									
Gamma-BHC [Lindane]	0.177	0.05	ug/L	0.250		70.6 49-129	3.64	30	
Heptachlor Epoxide	0.178	0.05	ug/L	0.250		71.3 50-130	0.557	30	
Endrin	0.233	0.05	ug/L	0.250		93.3 18-171	3.03	30	
Methoxychlor	0.220	0.05	ug/L	0.250		88.0 38-159	0.0477	30	
Surrogate: Tetrachloro-m-xylene	0.534		ug/L	0.600		88.9 10-144			

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Determination of Organochlorine Insecticides & PCBs	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Determination of Conventional Chemistry Parameters	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1IG0493 - General Prep Micro - SM 5210 B-2016										
Blank (1IG0493-BLK1)	Prepared: 07/09/25 16:46 Analyzed: 07/09/25 18:29									
BOD (5 day)	<2	2	mg/L							
Duplicate (1IG0493-DUP1)	Source: 1IG1048-01 Prepared: 07/09/25 16:46 Analyzed: 07/09/25 19:53									
BOD (5 day)	32.4	24	mg/L		41.3			24.3	30	
Reference (1IG0493-SRM1)	Prepared: 07/09/25 16:46 Analyzed: 07/09/25 18:43									
BOD (5 day)	194	100	mg/L	198		98.0	84.6-115.4			
Batch 1IG0501 - Wet Chem Preparation - USGS I-3765-85										
Blank (1IG0501-BLK1)	Prepared: 07/10/25 07:12 Analyzed: 07/11/25 08:06									
Total Suspended Solids (TSS)	<1	1	mg/L							
LCS (1IG0501-BS1)	Prepared: 07/10/25 07:12 Analyzed: 07/11/25 08:06									
Total Suspended Solids (TSS)	15.8	1	mg/L	15.0		105	73-110			
Duplicate (1IG0501-DUP1)	Source: 1IG1059-01 Prepared: 07/10/25 07:12 Analyzed: 07/11/25 08:06									
Total Suspended Solids (TSS)	165	1	mg/L	163				1.22	30	
Batch 1IG0503 - Wet Chem Preparation - EPA 420.1										
Blank (1IG0503-BLK1)	Prepared: 07/10/25 07:54 Analyzed: 07/11/25 09:29									
Phenols, total	<0.035	0.035	mg/L							
LCS (1IG0503-BS1)	Prepared: 07/10/25 07:54 Analyzed: 07/11/25 09:29									
Phenols, total	0.411	0.035	mg/L	0.400		103	67-110			
Matrix Spike (1IG0503-MS1)	Source: 1IG0943-02 Prepared: 07/10/25 07:54 Analyzed: 07/11/25 09:29									
Phenols, total	0.438	0.035	mg/L	0.400	ND	109	57-114			
Matrix Spike Dup (1IG0503-MSD1)	Source: 1IG0943-02 Prepared: 07/10/25 07:54 Analyzed: 07/11/25 09:29									
Phenols, total	0.438	0.035	mg/L	0.400	ND	109	57-114	0.00	30	
Batch 1IG0543 - General Prep HPLC/IC - TIMBERLINE										
Blank (1IG0543-BLK1)	Prepared: 07/10/25 11:40 Analyzed: 07/10/25 13:06									
Nitrogen, Ammonia	<0.10	0.10	mg/L							
LCS (1IG0543-BS1)	Prepared: 07/10/25 11:40 Analyzed: 07/10/25 13:07									
Nitrogen, Ammonia	4.85	0.10	mg/L	5.00		97.0	90-114			
Matrix Spike (1IG0543-MS1)	Source: 1IG1125-02 Prepared: 07/10/25 11:40 Analyzed: 07/10/25 13:09									
Nitrogen, Ammonia	5.63	0.10	mg/L	5.00	0.369	105	84-115			
Matrix Spike Dup (1IG0543-MSD1)	Source: 1IG1125-02 Prepared: 07/10/25 11:40 Analyzed: 07/10/25 13:11									
Nitrogen, Ammonia	5.60	0.10	mg/L	5.00	0.369	105	84-115	0.628	20	

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Determination of Conventional Chemistry Parameters	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1IG0621 - Wet Chem Preparation - TIMBERLINE										
Blank (1IG0621-BLK2)	Prepared: 07/11/25 10:17 Analyzed: 07/11/25 11:59									
Nitrogen, Ammonia	<0.10	0.10	mg/L							
LCS (1IG0621-BS2)	Prepared: 07/11/25 10:17 Analyzed: 07/11/25 12:01									
Nitrogen, Ammonia	5.00	0.10	mg/L	5.00		100	90-114			
Matrix Spike (1IG0621-MS2)	Source: 1IG1157-04	Prepared: 07/11/25 10:17 Analyzed: 07/11/25 12:02								
Nitrogen, Ammonia	5.24	0.10	mg/L	5.00	ND	105	84-115			
Matrix Spike Dup (1IG0621-MSD2)	Source: 1IG1157-04	Prepared: 07/11/25 10:17 Analyzed: 07/11/25 12:04								
Nitrogen, Ammonia	5.35	0.10	mg/L	5.00	ND	107	84-115	2.04	20	
Batch 1IG0775 - Wet Chem Preparation - SM 4500-H+ B-2011										
Duplicate (1IG0775-DUP1)	Source: 1IG1049-01	Prepared & Analyzed: 07/15/25 08:14								
pH	7.6	0.5	pH	7.6				0.0923	10	
Reference (1IG0775-SRM1)	Prepared & Analyzed: 07/15/25 08:14									
pH	7.0	0.5	pH	7.00		99.7	98.6-101.4			
Reference (1IG0775-SRM2)	Prepared & Analyzed: 07/15/25 08:14									
pH	7.0	0.5	pH	7.00		100	98.6-101.4			
Batch 1IG0778 - Wet Chem Preparation - 4500CN-E										
Blank (1IG0778-BLK1)	Prepared: 07/15/25 08:21 Analyzed: 07/15/25 16:16									
Cyanide, total	<0.005	0.005	mg/L							
LCS (1IG0778-BS1)	Prepared: 07/15/25 08:21 Analyzed: 07/15/25 16:16									
Cyanide, total	0.098	0.005	mg/L	0.100		98.0	84-118			
Matrix Spike (1IG0778-MS1)	Source: 1IG0659-02	Prepared: 07/15/25 08:21 Analyzed: 07/15/25 16:16								
Cyanide, total	0.092	0.010	mg/L	0.100	ND	92.0	70-136			
Matrix Spike Dup (1IG0778-MSD1)	Source: 1IG0659-02	Prepared: 07/15/25 08:21 Analyzed: 07/15/25 16:16								
Cyanide, total	0.094	0.010	mg/L	0.100	ND	94.0	70-136	2.15	30	
Determination of Inorganic Anions	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1IG0883 - General Prep HPLC/IC - 300.0										
Blank (1IG0883-BLK1)	Prepared: 07/15/25 00:00 Analyzed: 07/15/25 20:25									
Chloride	<1.0	1.0	mg/L							
Blank (1IG0883-BLK2)	Prepared: 07/15/25 00:00 Analyzed: 07/16/25 05:46									
Chloride	<1.0	1.0	mg/L							
LCS (1IG0883-BS1)	Prepared: 07/15/25 00:00 Analyzed: 07/15/25 20:44									
Chloride	16.54	1.0	mg/L	16.6		99.7	90-110			
LCS (1IG0883-BS2)	Prepared: 07/15/25 00:00 Analyzed: 07/16/25 06:05									



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Determination of Inorganic Anions	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1IG0883 - General Prep HPLC/IC - 300.0										
LCS (1IG0883-BS2)				Prepared: 07/15/25 00:00 Analyzed: 07/16/25 06:05						
Chloride	16.89	1.0	mg/L	16.6		102	90-110			
LCS Dup (1IG0883-BSD1)				Prepared: 07/15/25 00:00 Analyzed: 07/15/25 21:03						
Chloride	16.83	1.0	mg/L	16.6		101	90-110	1.74	10	
LCS Dup (1IG0883-BSD2)				Prepared: 07/15/25 00:00 Analyzed: 07/16/25 06:24						
Chloride	16.41	1.0	mg/L	16.6		99.0	90-110	2.83	10	
Matrix Spike (1IG0883-MS1)				Source: 1IG0892-03 Prepared: 07/15/25 00:00 Analyzed: 07/15/25 19:07						
Chloride	185.0	5.0	mg/L	82.9	99.52	103	80-120			
Matrix Spike (1IG0883-MS2)				Source: 1IG1146-01 Prepared: 07/15/25 00:00 Analyzed: 07/16/25 04:28						
Chloride	327.5	5.0	mg/L	82.9	252.8	90.1	80-120			
Matrix Spike Dup (1IG0883-MSD1)				Source: 1IG0892-03 Prepared: 07/15/25 00:00 Analyzed: 07/15/25 19:26						
Chloride	188.6	5.0	mg/L	82.9	99.52	107	80-120	1.96	10	
Matrix Spike Dup (1IG0883-MSD2)				Source: 1IG1146-01 Prepared: 07/15/25 00:00 Analyzed: 07/16/25 04:48						
Chloride	334.8	5.0	mg/L	82.9	252.8	98.9	80-120	2.19	10	
Batch 1IG1089 - General Prep HPLC/IC - 300.0										
Blank (1IG1089-BLK1)				Prepared & Analyzed: 07/17/25 10:47						
Chloride	<1.0	1.0	mg/L							
Blank (1IG1089-BLK2)				Prepared & Analyzed: 07/17/25 20:46						
Chloride	<1.0	1.0	mg/L							
LCS (1IG1089-BS1)				Prepared & Analyzed: 07/17/25 11:06						
Chloride	16.76	1.0	mg/L	16.6		101	90-110			
LCS (1IG1089-BS2)				Prepared & Analyzed: 07/17/25 21:06						
Chloride	16.82	1.0	mg/L	16.6		101	90-110			
LCS Dup (1IG1089-BSD1)				Prepared & Analyzed: 07/17/25 11:25						
Chloride	16.79	1.0	mg/L	16.6		101	90-110	0.209	10	
LCS Dup (1IG1089-BSD2)				Prepared & Analyzed: 07/17/25 21:25						
Chloride	16.80	1.0	mg/L	16.6		101	90-110	0.136	10	
Matrix Spike (1IG1089-MS1)				Source: 1IG1702-01 Prepared & Analyzed: 07/17/25 19:29						
Chloride	197.1	5.0	mg/L	82.9	110.6	104	80-120			
Matrix Spike (1IG1089-MS2)				Source: 1IG1579-03 Prepared: 07/17/25 23:21 Analyzed: 07/17/25 19:48						
Chloride	195.2	5.0	mg/L	82.9	132.7	75.4	80-120			M2
Matrix Spike Dup (1IG1089-MSD2)				Source: 1IG1579-03 Prepared & Analyzed: 07/17/25 23:41						
Chloride	209.3	5.0	mg/L	82.9	132.7	92.3	80-120	6.94	10	
Determination of Total Metals	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1IG0484 - EPA 200.2 Total ICP-MS - EPA 200.8, Rv. 5.4 (1994)										
Blank (1IG0484-BLK1)				Prepared: 07/09/25 16:08 Analyzed: 07/10/25 20:18						



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Determination of Total Metals	Result	RL	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch 1IG0484 - EPA 200.2 Total ICP-MS - EPA 200.8, Rv. 5.4 (1994)									
Blank (1IG0484-BLK1) Prepared: 07/09/25 16:08 Analyzed: 07/10/25 20:18									
Arsenic, total	<0.0010	0.0010	mg/L						
Barium, total	<0.0010	0.0010	mg/L						
Cadmium, total	<0.0002	0.0002	mg/L						
Chromium, total	<0.0010	0.0010	mg/L						
Copper, total	<0.0050	0.0050	mg/L						
Lead, total	<0.0005	0.0005	mg/L						
Molybdenum, total	<0.0010	0.0010	mg/L						
Nickel, total	<0.0010	0.0010	mg/L						
Selenium, total	<0.0020	0.0020	mg/L						
Silver, total	<0.0050	0.0050	mg/L						
Zinc, total	<0.0200	0.0200	mg/L						
LCS (1IG0484-BS1) Prepared: 07/09/25 16:08 Analyzed: 07/10/25 20:20									
Arsenic, total	0.0954	0.0010	mg/L	0.100		95.4	85-115		
Barium, total	0.112	0.0010	mg/L	0.100		112	85-115		
Cadmium, total	0.0998	0.0002	mg/L	0.100		99.8	85-115		
Chromium, total	0.104	0.0010	mg/L	0.100		104	85-115		
Copper, total	0.109	0.0050	mg/L	0.100		109	85-115		
Lead, total	0.102	0.0005	mg/L	0.100		102	85-115		
Molybdenum, total	0.0988	0.0010	mg/L	0.100		98.8	85-115		
Nickel, total	0.0961	0.0010	mg/L	0.100		96.1	85-115		
Selenium, total	0.0981	0.0020	mg/L	0.100		98.1	85-115		
Silver, total	0.105	0.0050	mg/L	0.100		105	85-115		
Zinc, total	0.102	0.0200	mg/L	0.100		102	85-115		
Matrix Spike (1IG0484-MS1) Source: 1IG0673-02 Prepared: 07/09/25 16:08 Analyzed: 07/10/25 20:25									
Arsenic, total	0.100	0.0010	mg/L	0.100	0.0009	99.5	70-130		
Barium, total	0.173	0.0010	mg/L	0.100	0.0647	109	70-130		
Cadmium, total	0.0991	0.0002	mg/L	0.100	ND	99.1	70-130		
Chromium, total	0.106	0.0010	mg/L	0.100	0.0007	106	70-130		
Copper, total	0.110	0.0050	mg/L	0.100	0.0060	104	70-130		
Lead, total	0.102	0.0005	mg/L	0.100	0.0003	101	70-130		
Molybdenum, total	0.110	0.0010	mg/L	0.100	0.0042	106	70-130		
Nickel, total	0.0969	0.0010	mg/L	0.100	0.0109	86.0	70-130		
Selenium, total	0.102	0.0020	mg/L	0.100	0.0011	101	70-130		
Silver, total	0.106	0.0050	mg/L	0.100	ND	106	70-130		
Zinc, total	0.136	0.0200	mg/L	0.100	0.0381	97.4	70-130		
Matrix Spike Dup (1IG0484-MSD1) Source: 1IG0673-02 Prepared: 07/09/25 16:08 Analyzed: 07/10/25 20:27									
Arsenic, total	0.0996	0.0010	mg/L	0.100	0.0009	98.7	70-130	0.851	20
Barium, total	0.175	0.0010	mg/L	0.100	0.0647	110	70-130	1.09	20
Cadmium, total	0.0984	0.0002	mg/L	0.100	ND	98.4	70-130	0.741	20
Chromium, total	0.104	0.0010	mg/L	0.100	0.0007	103	70-130	2.15	20
Copper, total	0.108	0.0050	mg/L	0.100	0.0060	102	70-130	1.38	20
Lead, total	0.100	0.0005	mg/L	0.100	0.0003	99.9	70-130	1.53	20
Molybdenum, total	0.110	0.0010	mg/L	0.100	0.0042	106	70-130	0.414	20

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Determination of Total Metals	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1IG0484 - EPA 200.2 Total ICP-MS - EPA 200.8, Rv. 5.4 (1994)										
Matrix Spike Dup (1IG0484-MSD1) Source: 1IG0673-02 Prepared: 07/09/25 16:08 Analyzed: 07/10/25 20:27										
Nickel, total	0.0963	0.0010	mg/L	0.100	0.0109	85.4	70-130	0.564	20	
Selenium, total	0.100	0.0020	mg/L	0.100	0.0011	99.3	70-130	1.69	20	
Silver, total	0.106	0.0050	mg/L	0.100	ND	106	70-130	0.627	20	
Zinc, total	0.135	0.0200	mg/L	0.100	0.0381	97.2	70-130	0.199	20	
Post Spike (1IG0484-PS1) Source: 1IG0673-02 Prepared: 07/09/25 16:08 Analyzed: 07/10/25 20:30										
Arsenic, total	0.0199		mg/L	0.0200	0.0009	94.8	70-130			
Barium, total	0.0819		mg/L	0.0200	0.0647	85.9	70-130			
Cadmium, total	0.0189		mg/L	0.0200	-0.00003	94.6	70-130			
Chromium, total	0.0206		mg/L	0.0200	0.0007	99.3	70-130			
Copper, total	0.0250		mg/L	0.0200	0.0060	95.3	70-130			
Lead, total	0.0198		mg/L	0.0200	0.0003	97.8	70-130			
Molybdenum, total	0.0248		mg/L	0.0200	0.0042	103	70-130			
Nickel, total	0.0291		mg/L	0.0200	0.0109	90.8	70-130			
Selenium, total	0.0205		mg/L	0.0200	0.0011	96.8	70-130			
Silver, total	0.0198		mg/L	0.0200	0.00004	98.6	70-130			
Zinc, total	0.0565		mg/L	0.0200	0.0381	91.6	70-130			
Batch 1IG0666 - EPA 7470A Hg Water - 245.1										
Blank (1IG0666-BLK1) Prepared: 07/11/25 16:33 Analyzed: 07/15/25 10:47										
Mercury, total	<0.00050	0.00050	mg/L							
LCS (1IG0666-BS1) Prepared: 07/11/25 16:33 Analyzed: 07/15/25 14:05										
Mercury, total	0.00257	0.00050	mg/L	0.00250		103	85-115			
Matrix Spike (1IG0666-MS1) Source: 1IG0669-01 Prepared: 07/11/25 16:33 Analyzed: 07/15/25 11:08										
Mercury, total	0.00313	0.00050	mg/L	0.00250	0.00016	119	70-130			
Matrix Spike Dup (1IG0666-MSD1) Source: 1IG0669-01 Prepared: 07/11/25 16:33 Analyzed: 07/15/25 11:11										
Mercury, total	0.00273	0.00050	mg/L	0.00250	0.00016	103	70-130	13.7	10	R1

Definitions

H4:	The test was performed outside of the EPA recommended holding time of 15 minutes.
M2:	Matrix spike recovery is below acceptance limits.
Q3:	LCS recovery is below acceptance limits. The reported value is estimated.
R1:	Duplicate RPD is outside acceptance criteria.
RL:	Reporting Limit
RPD:	Relative Percent Difference
S1:	Surrogate recovery is above acceptance limits.

Cooler Receipt Log

Cooler ID: Default Cooler Temp: 0.0°C



Microbac Laboratories, Inc., Newton

CERTIFICATE OF ANALYSIS

1IG1049

Cooler Inspection Checklist

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

Report Comments

The data and information on this, and other accompanying documents, represents only the sample(s) analyzed. This report is incomplete unless all pages indicated in the footnote are present and an authorized signature is included. The services were provided under and subject to Microbac's standard terms and conditions which can be located and reviewed at <https://www.microbac.com/standard-terms-conditions>.

Reviewed and Approved By:

Heather Murphy
Customer Relationship Specialist
heather.murphy@microbac.com
07/23/25 14:22

CHAIN OF CUSTODY RECORD



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

Page 1 of 3
Printed: 6/24/2025 11:04:41AM

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SITE INFORMATION

Sampler: JGH

Project: Boone CO SLF-Annual Leachate

REPORT TO

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

INVOICE TO

John Roosa
Boone County Sanitary Landfill
1268 224th Lane
Boone, IA 50036

SPECIAL INSTRUCTIONS

None

Turn Around Time

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



1 I G 1 0 4 9

HLW Engineering
PM: Heather Murphy

Temperature: 0.0 ice °C

Number	Sample Identification / Client ID	Matrix	Sample Type	Date	Time	# Containers	Analyses	Lab Sample Number
01-001	Leachate Tank #1	Aqueous	GRAB	7/8/25	9:32	11	624-108 as-t-200.8 se-t-200.8 hg-t-245.1 phenol-t-420.1 bod-5210 cn-t-4500e nh3-timberline ph-4500 ag-t-200.8 ba-t-200.8 cd-t-200.8 cr-t-200.8 cu-t-200.8 mo-t-200.8 ni-t-200.8 zn-t-200.8 608-104 tss-i-3765-85 625-107 cl-300.0 615-101 pb-t-200.8	01

J. C. O'Neil 7/9/25
Relinquished By Date/Time

Received By Date/Time

Relinquished By Date/Time
Heather Murphy 7-2-25 2:28
Received for Lab By Date/Time

Remarks:

CHAIN OF CUSTODY RECORD



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

Page 2 of 3

Printed: 6/24/2025 11:04:41AM

Page 27 of 28

SITE INFORMATION

Sampler: Leach

Project: Boone CO SLF-Annual Leachate

REPORT TO

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

INVOICE TO

John Roosa
Boone County Sanitary Landfill
1268 224th Lane
Boone, IA 50036

SPECIAL INSTRUCTIONS

None

Turn Around Time

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

LAB USE ONLY



1 I G 1 0 4 9

HLW Engineering
PM: Heather Murphy

Temperature: 0.0 ice °C

Number	Sample Identification / Client ID	Matrix	Sample Type	Date	Time	# Containers	Analyses	Lab Sample Number
02-001	Leachate Tank #3	Aqueous	GRAB	7/8/25	10:54	11	624-108 as-t-200.8 se-t-200.8 hg-t-245.1 phenol-t-420.1 bod-5210 cn-t-4500e nh3-timberline ph-4500 ag-t-200.8 ba-t-200.8 cd-t-200.8 cr-t-200.8 cu-t-200.8 mo-t-200.8 ni-t-200.8 zn-t-200.8 608-104 tss-i-3765-85 625-107 cl-300.0 615-101 pb-t-200.8	02
Relinquished By 7/9/25 Date/Time								
Relinquished By 7-2-25 9:28 Date/Time								
Received By Date/Time								
Received for Lab By Date/Time								
Received By Date/Time								

Remarks:

CHAIN OF CUSTODY RECORD



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

Page 3 of 3

Printed: 6/24/2025 11:04:41AM

Page 28 of 28

SITE INFORMATION

Sampler: LC11

Project: Boone CO SLF-Annual Leachate

SPECIAL INSTRUCTIONS

None

Turn Around Time

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

REPORT TO

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

INVOICE TO

John Roosa
Boone County Sanitary Landfill
1268 224th Lane
Boone, IA 50036

LAB USE ONLY



1 I G 1 0 4 9

HLW Engineering
PM: Heather Murphy

Temperature: 0.01°C

Number	Sample Identification / Client ID	Matrix	Sample Type	Date	Time	# Containers	Analyses	Lab Sample Number
03-001	Lagoon	Aqueous	GRAB	7/8/25	9:53	11	624-108 as-t-200.8 se-t-200.8 hg-t-245.1 phenol-t-420.1 bod-5210 cn-t-4500e nh3-timberline ph-4500 ag-t-200.8 ba-t-200.8 cd-t-200.8 cr-t-200.8 cu-t-200.8 mo-t-200.8 ni-t-200.8 zn-t-200.8 608-104 tss-i-3765-85 625-107 cl-300.0 615-101 pb-t-200.8	03

T. C. Whipple 7/8/25
Relinquished By Date/Time

T. C. Whipple 7-2-25 9-28
Relinquished By Date/Time

Received By Date/Time

Received for Lab By Date/Time

Remarks:

Appendix I.4 – Leachate Elevation Measurements

Well/TOC LPZ-2R Boone Co SLF Sept 14 1100.43					Well/TOC LPZ-3 1083.81 Boone Co SLF Jan 03 1112.37					Well/TOC LPZ-6R Boone Co SLF Sept 14 1107.81				
Date	Depth to Leachate (ft)	Leachate Elevation	Waste Base Elevation	Saturated Thickness (ft)	Date	Depth to Leachate (ft)	Leachate Elevation	Waste Base Elevation	Saturated Thickness (ft)	Date	Depth to Leachate (ft)	Leachate Elevation	Waste Base Elevation	Saturated Thickness (ft)
1/23/2025	41.62	1058.81	1044.1	14.71	1/23/2025	37.00	1075.37	1024.8	50.57	1/23/2025	68.23	1039.58	1023.7	15.88
2/20/2025	42.50	1057.93	1044.1	13.83	2/20/2025	36.61	1075.76	1024.8	50.96	2/20/2025	68.32	1039.49	1023.7	15.79
3/24/2025	34.97	1065.46	1044.1	21.36	3/24/2025	37.25	1075.12	1024.8	50.32	3/24/2025	68.00	1039.81	1023.7	16.11
4/28/2025	38.41	1062.02	1044.1	17.92	4/28/2025	36.63	1075.74	1024.8	50.94	4/28/2025	68.01	1039.80	1023.7	16.10
5/12/2025	39.82	1060.61	1044.1	16.51	5/12/2025	36.66	1075.71	1024.8	50.91	5/12/2025	68.05	1039.76	1023.7	16.06
6/6/2025	40.99	1059.44	1044.1	15.34	6/6/2025	35.85	1076.52	1024.8	51.72	6/6/2025	68.13	1039.68	1023.7	15.98
7/8/2025	39.80	1060.63	1044.1	16.53	7/8/2025	33.43	1078.94	1024.8	54.14	7/8/2025	68.15	1039.66	1023.7	15.96
8/7/2025	39.35	1061.08	1044.1	16.98	8/7/2025	34.73	1077.64	1024.8	52.84	8/7/2025	67.26	1040.55	1023.7	16.85
9/9/2025	41.26	1059.17	1044.1	15.07	9/9/2025	35.91	1076.46	1024.8	51.66	9/9/2025	65.74	1042.07	1023.7	18.37
10/8/2025	41.23	1059.20	1044.1	15.10	10/8/2025	34.48	1077.89	1024.8	53.09	10/8/2025	65.39	1042.42	1023.7	18.72
11/13/2025	43.23	1057.20	1044.1	13.10	11/13/2025	36.46	1075.91	1024.8	51.11	11/13/2025	66.82	1040.99	1023.7	17.29
12/15/2025	40.05	1060.38	1044.1	16.28	12/15/2025	36.95	1075.42	1024.8	50.62	12/15/2025	67.58	1040.23	1023.7	16.53

Well/TOC LPZ-8A 1077.19 Boone Co SLF					Well/TOC LPZ-9 1089.5 Boone Co SLF Jan 03 1094.55					Well/TOC LPZ-12 1076.88 Boone Co SLF				
Date	Depth to Leachate (ft)	Leachate Elevation	Waste Base Elevation	Saturated Thickness (ft)	Date	Depth to Leachate (ft)	Leachate Elevation	Waste Base Elevation	Saturated Thickness (ft)	Date	Depth to Leachate (ft)	Leachate Elevation	Waste Base Elevation	Saturated Thickness (ft)
1/23/2025	44.33	1032.86	995.12	37.74	1/23/2025	29.67	1064.88	1021.30	43.58	1/23/2025	23.30	1053.58	1047	6.58
2/20/2025	45.25	1031.94	995.12	36.82	2/20/2025	30.05	1064.50	1021.30	43.20	2/20/2025	23.80	1053.08	1047	6.08
3/24/2025	45.35	1031.84	995.12	36.72	3/24/2025	29.01	1065.54	1021.30	44.24	3/24/2025	22.65	1054.23	1047	7.23
4/28/2025	45.88	1031.31	995.12	36.19	4/28/2025	28.93	1065.62	1021.30	44.32	4/28/2025	22.32	1054.56	1047	7.56
5/12/2025	41.80	1035.39	995.12	40.27	5/12/2025	29.05	1065.50	1021.30	44.20	5/12/2025	23.03	1053.85	1047	6.85
6/6/2025	46.16	1031.03	995.12	35.91	6/6/2025	29.04	1065.51	1021.30	44.21	6/6/2025	22.90	1053.98	1047	6.98
7/8/2025	45.57	1031.62	995.12	36.50	7/8/2025	28.82	1065.73	1021.30	44.43	7/8/2025	22.93	1053.95	1047	6.95
8/7/2025	46.19	1031.00	995.12	35.88	8/7/2025	28.77	1065.78	1021.30	44.48	8/7/2025	22.92	1053.96	1047	6.96
9/9/2025	46.35	1030.84	995.12	35.72	9/9/2025	28.93	1065.62	1021.30	44.32	9/9/2025	23.65	1053.23	1047	6.23
10/8/2025	41.80	1035.39	995.12	40.27	10/8/2025	29.41	1065.14	1021.30	43.84	10/8/2025	24.07	1052.81	1047	5.81
11/13/2025	46.80	1030.39	995.12	35.27	11/13/2025	29.38	1065.17	1021.30	43.87	11/13/2025	23.97	1052.91	1047	5.91
12/15/2025	46.00	1031.19	995.12	36.07	12/15/2025	29.37	1065.18	1021.30	43.88	12/15/2025	23.66	1053.22	1047	6.22

Well/TOC LPZ-13C 1095 Boone Co SLF					Well/TOC LPZ-14 Boone Co SLF					Well/TOC LPZ-15 Boone Co SLF				
Sept 14 1091.63					Sept 14 1088.47									
Date	Depth to Leachate (ft)	Leachate Elevation	Waste Base Elevation	Saturated Thickness (ft)	Date	Depth to Leachate (ft)	Leachate Elevation	Waste Base Elevation	Saturated Thickness (ft)	Date	Depth to Leachate (ft)	Leachate Elevation	Waste Base Elevation	Saturated Thickness (ft)
1/23/2025	29.40	1065.60	1049.88	15.72	1/23/2025	36.75	1054.88	1046.4	8.48	1/23/2025	34.28	1054.19	1045.3	8.89
2/20/2025	29.63	1065.37	1049.88	15.49	2/20/2025	37.12	1054.51	1046.4	8.11	2/20/2025	34.25	1054.22	1045.3	8.92
3/24/2025	28.95	1066.05	1049.88	16.17	3/24/2025	34.05	1057.58	1046.4	11.18	3/24/2025	33.60	1054.87	1045.3	9.57
4/28/2025	28.94	1066.06	1049.88	16.18	4/28/2025	33.54	1058.09	1046.4	11.69	4/28/2025	33.71	1054.76	1045.3	9.46
5/12/2025	28.95	1066.05	1049.88	16.17	5/12/2025	36.15	1055.48	1046.4	9.08	5/12/2025	33.65	1054.82	1045.3	9.52
6/6/2025	29.05	1065.95	1049.88	16.07	6/6/2025	36.65	1054.98	1046.4	8.58	6/6/2025	34.00	1054.47	1045.3	9.17
7/8/2025	28.80	1066.20	1049.88	16.32	7/8/2025	36.08	1055.55	1046.4	9.15	7/8/2025	33.85	1054.62	1045.3	9.32
8/7/2025	28.90	1066.10	1049.88	16.22	8/7/2025	35.75	1055.88	1046.4	9.48	8/7/2025	33.83	1054.64	1045.3	9.34
9/9/2025	28.80	1066.20	1049.88	16.32	9/9/2025	36.45	1055.18	1046.4	8.78	9/9/2025	33.94	1054.53	1045.3	9.23
10/8/2025	29.00	1066.00	1049.88	16.12	10/8/2025	36.75	1054.88	1046.4	8.48	10/8/2025	34.30	1054.17	1045.3	8.87
11/13/2025	28.78	1066.22	1049.88	16.34	11/13/2025	36.70	1054.93	1046.4	8.53	11/13/2025	34.42	1054.05	1045.3	8.75
12/15/2025	29.09	1065.91	1049.88	16.03	12/15/2025	NM*	----	1046.4	----	12/15/2025	34.20	1054.27	1045.3	8.97

* Broken at ground level and could not be measured

Well/TOC LPZ-17 Boone Co SLF					EW-1 1107.82 Boone Co SLF					Well/TOC EW-2 1110.92 Boone Co SLF				
		Oct 21	973.5											
		Aug 23 ⁽¹⁾	973.8											
Date	Depth to Leachate (ft)	Leachate Elevation	Waste Base Elevation	Saturated Thickness (ft)	Date	Depth to Leachate (ft)	Leachate Elevation	Waste Base Elevation	Saturated Thickness (ft)	Date	Depth to Leachate (ft)	Leachate Elevation	Waste Base Elevation	Saturated Thickness (ft)
1/23/2025	8.22	965.58	965.5	0.08	1/23/2025	77.38	1030.44	1026	4.44	1/23/2025	78.95	1031.97	1029	2.97
2/20/2025	8.22	965.58	965.5	0.08	2/20/2025	77.25	1030.57	1026	4.57	2/20/2025	79.15	1031.77	1029	2.77
3/24/2025	8.00	965.80	965.5	0.30	3/24/2025	77.65	1030.17	1026	4.17	3/24/2025	79.10	1031.82	1029	2.82
4/28/2025	8.16	965.64	965.5	0.14	4/28/2025	76.20	1031.62	1026	5.62	4/28/2025	79.06	1031.86	1029	2.86
5/12/2025	8.20	965.60	965.5	0.10	5/12/2025	76.65	1031.17	1026	5.17	5/12/2025	79.47	1031.45	1029	2.45
6/6/2025	8.25	965.55	965.5	0.05	6/6/2025	77.10	1030.72	1026	4.72	6/6/2025	79.79	1031.13	1029	2.13
7/8/2025	8.23	965.57	965.5	0.07	7/8/2025	77.32	1030.50	1026	4.50	7/8/2025	79.00	1031.92	1029	2.92
8/7/2025	8.21	965.59	965.5	0.09	8/7/2025	68.09	1039.73	1026	13.73	8/7/2025	79.20	1031.72	1029	2.72
9/9/2025	8.15	965.65	965.5	0.15	9/9/2025	79.16	1028.66	1026	2.66	9/9/2025	79.45	1031.47	1029	2.47
10/8/2025	8.30	965.50	965.5	0.00	10/8/2025	77.28	1030.54	1026	4.54	10/8/2025	71.49	1039.43	1029	10.43
11/13/2025	8.30	965.50	965.5	0.00	11/13/2025	76.87	1030.95	1026	4.95	11/13/2025	79.06	1031.86	1029	2.86
12/15/2025	8.30	965.50	965.5	0.00	12/15/2025	76.70	1031.12	1026	5.12	12/15/2025	79.64	1031.28	1029	2.28

(1) LPZ-17 repaired on August 29, 2023