# 2025 Annual Water Quality Report

Dickinson Landfill, Inc.
Permit No. 30-SDP-01-75P

Stantec

Prepared for:
Dickinson Landfill, Inc.
2575 190th Street
Spirit Lake, IA 51360

Prepared by:
Stantec Consulting Services Inc.
One Carlson Parkway North, Suite 100
Plymouth, MN 55447

January 29, 2026

Project/File:
227708677

Stantec Consulting Services Inc.

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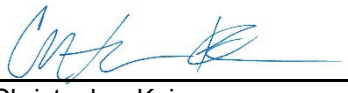
The 2025 Annual Water Quality Report (2025 AWQR), was prepared by the following:



January 29, 2026

Cory Anderson
Stantec Consulting Services Inc.
Senior Associate, Project Manager

Date



January 29, 2026

Christopher Kaiser
Stantec Consulting Services Inc.
Hydrogeologist, P.G. (MN)

Date



January 29, 2026

Tyler Sundell
Stantec Consulting Services Inc.
Geologist, P.G. (KS)

Date

The 2025 AWQR also incorporates the required Statistical Monitoring Report in its entirety as prepared by Otter Creek Environmental Services LLC.

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# Executive Summary

## Site Status and Applicable Rules:

Dickinson Landfill, Inc. (the Landfill) is an open facility that operates under Iowa Department of Natural Resource (IDNR) Permit 30-SDP-1-75P that was most recently reissued March 1, 2021 and most recently revised November 6, 2025. The Landfill accepts municipal solid waste (MSW), construction and demolition debris, asbestos-containing waste, petroleum-contaminated soils, and non-hazardous special wastes subject to prior Special Waste Authorization(s) issued by the IDNR. The Landfill is not authorized to accept bulk liquids; wastes that exhibit free liquids; wastes that have toxic or hazardous properties (i.e., no hazardous wastes, as defined by Chapter 455B.411 of the Iowa Code); radioactive wastes; untreated medical waste; and whole tires.

The Landfill is located approximately two miles east of Arnolds Park, Dickinson County. The property is bounded primarily by open grassland and agricultural land. Submittal of this Report fulfills the requirements of the Permit and the solid waste facility rules of the Iowa Administrative Code (IAC).

## Report Priority:

The Landfill remains a low priority site with little to no risk to receptors. The few volatile organic compound (VOC) detections and inorganic exceedances, some of which exceed applicable standards, are isolated to a few locations within the interior of the Landfill's property and immediately adjacent to the waste boundaries. Analyzed groundwater samples are collected from shallow groundwater that is not used for water supply. Landfill gas (LFG), related to the older unlined fill area, was identified as the source of these VOC detections. Corrective actions were implemented beginning in 1997 and remain in place to control landfill gas; these corrective actions have resulted in gradual improvement in water quality.

## Period of Report Coverage:

Monitoring during 2025 was completed in accordance with the Landfill's 2009 Hydrologic Monitoring System Plan (2009 HMSP) and IDNR approved modifications and the Landfill's Permit. The monitoring activities and contents of this 2025 Annual Water Quality Monitoring Report (2025 AWQR) are as follows:

- Semi-annual monitoring events during the spring and fall were conducted on May 12, 2025 and October 14, 2025, respectively. A confirmatory resampling event at MW-23A was conducted on July 9, 2025. A second mobilization for the fall event on November 24, 2025 was required to sample a well that was inaccessible during the initial October event. The first three background monitoring events for new well MW-41A were completed on October 14, 2025, November 24, 2025, and December 22, 2025.
- This report also provides an evaluation of the effectiveness of the source control at MW-37A as requested by the October 16, 2025 IDNR letter (Doc No. 113775) and briefly summarizes the 2025 monitoring results at temporary gas probes GP-1T and GP-2T located near MW-37A.

- The 2025 Leachate Control System Performance Evaluation (LCSPE), attached as **Appendix A** to this report, addresses leachate management during 2025.
- The 2025 Landfill Gas Management Report, attached as **Appendix B** to this report, addresses landfill gas monitoring during 2025.

## 2025 Activities:

The following activities occurred at the Landfill in 2025:

- The IDNR provided comment to the Landfill's *2024 Annual Water Quality Report* (2024 AWQR), dated January 31, 2024, in their 2024 AWQR Comment Letter (Document No. 112422), dated March 4, 2025. Responses to the IDNR comments that warranted a response were provided in the IDNR Comments Response Letter dated May 5, 2025. The IDNR provided response to the comments response with their letter dated May 21, 2025 (Document No. 113009), which indicated that a meeting with the IDNR's National Pollutant Discharge Elimination System (NPDES) section was required in order to determine future discharge of the groundwater underdrain holding pond. As requested, a meeting attended by Landfill representatives, IDNR NPDES staff, and IDNR solid waste staff to discuss discharge of the groundwater underdrain holding pond was held on June 12, 2025 (see *Section 2.3.1* for further detail).
- The Landfill's *2025 Semi-Annual Monitoring Report* (2025 semi-annual report), dated September 3, 2025, provided results of the spring 2025 monitoring event, which took place on May 12, 2025. The 2025 semi-annual report for the Landfill discussed water quality and leachate monitoring results along with relevant conclusions and recommendations.
- The IDNR letter dated October 16, 2025 approved the 2025 semi-annual report with one comment to provide an evaluation of the effectiveness of the source control at MW-37A in the 2025 AWQR. This evaluation is discussed in *Section 5.3.2* of this report.
- The Landfill's groundwater monitoring network was modified in 2025 pursuant to an IDNR-approved work plan. Modifications included the sealing of MW-36A and the installation of additional downgradient monitoring well MW-41A. Documentation of these modifications were provided to the IDNR within the *Solid Waste Permit Renewal* application for the Landfill, dated November 25, 2025.
- Monitoring well MW-41A is currently in background monitoring with three events being conducted in 2025. Monthly background monitoring is scheduled to be completed in July 2026, prior to the placement of waste in the new Landfill cell.
- The fall monitoring event took place on October 14, 2025 and November 24, 2025. The results of the fall monitoring event have yet to be provided to the IDNR and are provided with this report.



# 1 Introduction

Dickinson Landfill, Inc. (the Landfill) is located in the northern ½ of Section 27, T99N, R36W, Arnolds Park, Dickinson County. The Landfill's IDNR Permit 30-SDP-1-75P was most recently reissued March 1, 2021 and most recently revised November 6, 2025. A permit renewal application was submitted on November 25, 2025. The property is bounded on the north by County Road A31 and is approximately one-half mile west of County Road M56. Adjacent property is primarily open agricultural land. The residential area of Arnolds Park lies approximately two miles west of the facility and residential areas of Spirit Lake are approximately three miles to the north-northwest. The total area of the property owned by Dickinson Landfill, Inc. is 463.4 acres. The Landfill's site location is illustrated on **Figure 1**.

Within the Landfill property there are 77.7 acres permitted for solid waste disposal. The Landfill has previously been recognized by the Wildlife Habitat Council as having a certified "Wildlife at Work" program, with certifications in 2008, 2010, 2012 and again in 2014. The Landfill continues to work intermittently with the Iowa Department of Natural Resources (IDNR) to review opportunities for wildlife habitat enhancement on Landfill property.

## 1.1 Site Hydrogeologic Conditions

The monitoring system for the Landfill was developed in consideration of the site-specific hydrogeologic conditions. These conditions were documented in the Proposed Monitoring and Reporting Program report (Sanifill, March 7, 1995) and in a condensed format in the 2009 HMSP. As described in these documents the hydrogeologic conditions are characterized by approximately 250 feet of glacial till that is underlain by Cretaceous-aged Dakota Formation bedrock. The glacial till deposits include an upper (surficial) weathered interval with a thickness of approximately 20 feet and a lower unweathered interval with a thickness of approximately 230 feet. Overall, the two glacial till units are characterized by a high clay content, containing discontinuous lenses of coarser materials (i.e., silt, sand, and gravel), and being undifferentiated with no indication from soil borings or other information of secondary porosity (e.g., fractures, faults, etc.).

Soil borings completed during the 2009 monitoring well and gas probe installations and subsequent investigations and monitoring well installations have confirmed the previous findings indicating overall consistency with a prevalence of high clay content till with minor quantities of coarser materials and intermittent sand seams. Depth to groundwater at the Landfill varies from approximately 4 to 15 feet below ground surface (bgs), and groundwater flow has consistently been identified to be toward the south/southwest with the localized influence created by the Phase B and C underdrains.

The hydrogeologic conditions and site setting are such that there is minimal risk to groundwater receptors, the nearest of which are identified on **Figure 1**. Because monitoring wells are located in very close proximity to the waste, the monitoring network is well suited to provide early detection of any potential releases from the Landfill. The Landfill's groundwater monitoring network is described below in *Section 2.1*.

# 2 Hydrologic Monitoring System Plan

A revised HMSP was submitted to the IDNR on June 11, 2009. Minor modifications have since been made to the network and monitoring program, as approved by the IDNR, and the 2009 HMSP remained the applicable document for all monitoring completed at the Landfill in 2025. It is noted that the HMSP was updated in 2025 (2025 HMSP) and submitted for IDNR approval along with the *Solid Waste Permit Renewal* application for the Landfill, dated November 25, 2025 (2025 Permit Renewal). The 2025 HMSP has yet to be approved by the IDNR and all monitoring of the Landfill in 2025 occurred in accordance with the 2009 HMSP. Monitoring at the Landfill will occur in accordance with the 2025 HMSP following its approval by the IDNR.

## 2.1 Groundwater Monitoring Network

During the operating history of the Landfill, the groundwater monitoring network has been updated to account for new phases of construction and to allow for refinement in site characterization. A listing of the approved monitoring points, their position relative to the landfilled waste, and their current monitoring status is provided in **Table 1** and a comprehensive construction summary of all wells is provided in **Table 2**. All monitoring wells at the Landfill were installed and sealed by licensed well contractors in accordance with Iowa Administrative Code (IAC) requirements.

The Landfill's groundwater monitoring network was modified in 2025 pursuant to the IDNR-approved *Proposed 2025 Monitoring Network Modifications Work Plan*, dated August 29, 2025 (2025 work plan). Groundwater monitoring network modifications included the sealing of MW-36A and the installation of new downgradient monitoring well MW-41A. Documentation on the groundwater monitoring network modifications were provided within the 2025 HMSP, which was submitted to the IDNR along with the 2025 Permit Renewal.

The 15 groundwater monitoring wells included in the current monitoring network are illustrated on **Figure 2** and **Figure 3**. Additional wells are anticipated to be needed as site development progresses into the planned future phases.

## 2.2 Groundwater Sampling Frequency

The semi-annual monitoring schedule established for the Landfill is based on theoretical release calculations that were completed with site-specific data, as obtained from the monitoring network provided in the HMSP. Groundwater monitoring is conducted semi-annually, generally in the late spring and fall of each year.

Aside from the few monitoring wells used only for static water level monitoring, the Landfill's monitoring wells are either in the detection monitoring program or the assessment monitoring program. Newly installed

monitoring wells go through a period of background data collection prior to formally entering the Landfill's detection monitoring program.

### 2.2.1 Background Monitoring

Statistical procedures implemented for the Landfill require that any new well have eight sets of background groundwater quality data collected. Background data is collected for detection monitoring parameters, as listed in Appendix I of IAC 567 Chapter 113.15. Once eight sets of background groundwater quality data have been collected from a new well it is be incorporated into the Landfill's routine semi-annual detection monitoring program and the statistical program implemented for the Landfill. With the exception of recently installed MW-41A, the full complement of background data has been collected for all monitoring wells in the detection or assessment monitoring program at the Landfill.

MW-41A, which was installed in September 2025, is currently in background data collection status. The background monitoring schedule for MW-41A is provided on **Table 3b** and targets the completion of eight background events prior to the placement of waste in Phase D. The first background monitoring event for MW-41A was completed in October 2025 and the eighth and final background event is scheduled for July 2026.

### 2.2.2 Detection Monitoring and Other Routine Parameters

Monitoring wells in the detection monitoring program at the Landfill are tested for the parameters listed in Appendix I of IAC Chapter 113.15 on a semi-annual basis each year.

Appendix I parameter results are compared to water quality standards and, for the inorganics (metals), against upper control limits (UCL) established according to the statistical methods described in the 2009 HMSP and in the Otter Creek Environmental Services, LLC (Otter Creek) statistical reports. The intent of statistical analysis is to identify, at the earliest indication, changes in water quality that may be indicative of a potential leachate release. Collection of background monitoring data (minimum of eight data sets) is necessary for statistical data review.

The Landfill also collects data at its own initiative for major ions (calcium, magnesium, sodium, potassium, alkalinity, chloride, and sulfate) as a potential aid in evaluating water quality data. Samples are collected for major ion analysis during spring semi-annual monitoring events.

### 2.2.3 Assessment Monitoring

Monitoring wells enter into assessment status when there has been a confirmed volatile organic compound (VOC) detection, or when there has been a confirmed interwell statistical exceedance that is attributable to the Landfill. Monitoring wells in the assessment monitoring program are sampled for the Appendix I parameters on a semi-annual basis each year, and as approved by the IDNR, the Landfill's monitoring wells that are currently in the assessment monitoring program are sampled for the parameters listed in Appendix

II of IAC Chapter 113.15 on a once per five-year schedule. The five monitoring wells currently in assessment status at the Landfill are MW-12A, MW-19A, MW-23A, MW-37A, and MW-38A. Assessment status at each of these wells is based principally on the confirmed detections of VOCs. Each of these wells have undergone a minimum of five assessment monitoring events. It is noted that none of the parameters specific to the IAC Appendix II list have been confirmed to be present at any of the Landfill's monitoring wells. For the Landfill's monitoring wells that are in the assessment monitoring program, testing for the Appendix II parameters was most recently completed during the May 3, 2021 monitoring event and is next scheduled for 2026 (see **Table 1**).

In the event that a new monitoring point enters the assessment monitoring program then at least two rounds of testing for the Appendix II parameter list is required. If no parameters specific to the Appendix II parameter list are detected during the two rounds of Appendix II testing then, with IDNR concurrence, the frequency of testing for the entire Appendix II parameter list may be reduced.

## 2.3 Groundwater Underdrains & Holding Pond

Groundwater collected by the underdrains of Phase B and Phase C (GU-B/C) is discharged to the Groundwater Holding Pond, which is situated on the south side of the Landfill (see **Figure 3**). The groundwater underdrains maintain a five-foot separation between the base of waste and groundwater. The underdrain piping slopes from north to south, from an elevation of approximately 1480 feet on the north end to approximately 1454 feet on the south end at the sump. The result of this fixed head condition is an inward hydraulic gradient towards the underdrains. The piping slope allows for gravity flow of groundwater into the sumps located at the southern end of the cells. An automated pumping system, which includes a transducer, pumps water from the underdrain sumps to the Groundwater Holding Pond. Thus, operation of the pumping system ensures that water will not backup into the underdrain piping, allowing for continued gravity flow of groundwater to maintain the separation distance.

Water quality monitoring from the GU-B/C underdrains began in 2000. Since December 2012, the underdrain water has been monitored at the Groundwater Holding Pond in accordance with IDNR correspondence dated November 8, 2012.

Monitoring of the groundwater underdrain GU-B and GU-C discharge at the Groundwater Holding Pond is currently required, and conducted, in accordance with both the March 2021 Permit (30-SDP-1-75P) and the IDNR's NPDES General Permit #1 (GP1). The management of the Groundwater Holding Pond was evaluated in detail with the August 25, 2014 submittal to the IDNR. The current monitoring and management procedures are as follows:

- The Groundwater Holding Pond is sampled semi-annually for Appendix I parameters and the IDNR NPDES GP1 Land Disposal Units/Incinerators parameter list (NPDES parameters). The Landfill also collects Groundwater Holding Pond samples for major ions at its own initiative during spring semi-annual monitoring events.
- Groundwater Holding Pond NPDES parameter results are compared to GP1 Uncontaminated Groundwater criteria, which is defined as ½ of the Iowa Administrative Code (IAC) Chapter

567.61.3(3) Class C waters criteria (NPDES Uncontaminated Groundwater Criteria) to confirm that discharge as uncontaminated groundwater under GP1 remains appropriate.

- Provided there are no confirmed VOC detections, or statistical exceedances attributable to the Landfill, Groundwater Holding Pond releases will occur as necessary with documentation provided to the IDNR.

Groundwater Holding Pond analytical results are evaluated through intrawell statistics. At the IDNR's request, statistical analyses are conducted to compare Groundwater Holding Pond results with upgradient groundwater quality. However, because the Holding Pond is a surface water body influenced by precipitation, oxidation, evaporation, temperature changes, and other environmental factors, such comparisons are not fully applicable.

The 2025 Groundwater Holding Pond monitoring results are discussed in *Section 5.6*.

### 2.3.1 Request to Discontinued Underdrain and Decommission Groundwater Holding Pond

Groundwater underdrain discharge monitoring and management were discussed during a June 12, 2025 meeting with Landfill staff, IDNR NPDES staff, IDNR solid waste staff, and Stantec. Following the meeting, the Landfill submitted a new underdrain discharge monitoring and management plan to IDNR on June 17, 2025 and requested concurrence. IDNR NPDES staff concurred on June 20, 2025, and IDNR solid waste staff responded on September 10, 2025, noting that upcoming IAC Chapter 113 rule changes will allow landfills to request elimination of groundwater separation requirements in new cells and discontinue underdrain use in existing cells. In the interim, IDNR directed that the Groundwater Holding Pond continue semi-annual Appendix I sampling, statistical evaluation, and if any statistically significant increase over background then discharge must be collected and managed as leachate.

The 2025 permit renewal application included uplift calculations for existing Phases B and C and future phases, indicating that Phase B has sufficient waste in place to discontinue underdrain use for uplift prevention. The IDNR Solid Waste Permit Renewal (Document No. 114863), issued December 19, 2025, requested additional supporting information. Dickinson Landfill will provide a response to the IDNR's comments.

# 3 2025 Reporting Period Activities

As noted above, monitoring activities conducted in 2025 were completed in accordance with the Landfill's 2009 HMSP and IDNR approved modifications and the Landfill's Permit. Sample collection remained consistent with previous years with Minnesota Valley Testing Laboratories (MVTL) of New Ulm, Minnesota providing all field services. Laboratory analytical services were provided by Pace Analytical National Laboratory (Pace National) of Mt. Juliet, Tennessee.

The routine monitoring events completed at the Landfill in 2025 are summarized in **Table 3a**. The first semi-annual monitoring event was completed on May 12, 2025 (spring event). Confirmation resampling of MW-23A for arsenic was conducted on July 9, 2025, in response to the unconfirmed result reported during the spring event. The second semi-annual monitoring event took place on October 14, 2025, and November 24, 2025 (fall event). A second mobilization for the fall event was required due to access issues at MW-34A during the initial mobilization. The Landfill also completed three rounds of background monitoring at newly installed monitoring location MW-41A. Background monitoring events at MW-41A are summarized in **Table 3b**. All locations and parameters were accounted for during both of the routine 2025 monitoring events.

Monitoring results for the spring event, including the statistical evaluation, groundwater and leachate laboratory reports were provided to the IDNR with the Landfill's *2025 Semi-Annual Monitoring Report*, dated September 3, 2025.

## 3.1 Monitoring Well Condition

Evaluation of monitoring well conditions is conducted in accordance with the Landfill's 2009 HMSP and IAC 113.10(2)"f". This evaluation includes a review of well depth, screen positions relative to groundwater elevation, horizontal well positions relative to groundwater flow direction and waste location, well sampling purge rates, water chemistry for signs of well degradation, and the physical condition of each well and dedicated sampling equipment.

The approved Landfill monitoring wells utilize extended screened intervals which were designed to incorporate intermittent sand seams that yield water during water level fluctuations that occur with wet and dry climatic periods as a primary monitoring criterion. Therefore, strict evaluation of screened interval in relation to the water table, as required by IAC 113.10(2)"f"(1), is not applicable to this site-specific monitoring network. In addition, the low-permeability glacial sediments in which the wells are screened may unavoidably yield samples that contain varying amounts of fine-grained sediment. To minimize that potential, dedicated QED Well Wizard® bladder pumps (model number P-110-1S) are used along with micro-purge sampling procedures.

Monitoring well conditions were assessed in 2025 during the spring event and updated information regarding well depth measurements, purge, and recovery rates is provided in **Table 4**. The monitoring well characteristics through 2025 are summarized below. The characteristics indicate the monitoring network

provides for accurate determination of water quality and allows for early detection and response to any potential release.

### 567 IAC 113.10(2)"f"(1) - high and low water levels.

- As noted above, this is not applicable to the site-specific monitoring network at the Landfill. Monitoring well depths and screen positions are properly positioned vertically to account for fluctuations in groundwater elevation that occur naturally within the monitorable zone.

### 567 IAC 113.10(2)"f"(2) – changes in the hydrogeologic setting and flow path.

- This is completed on an annual basis at the site. Groundwater elevation information indicates groundwater flow to be consistent with that which was previously determined. This indicates that the monitoring wells are properly situated horizontally with respect to groundwater flow and landfill phasing.

### 567 IAC 113.10(2)"f"(3) – well depths.

- Well depth measurements were collected in 2017, 2019, 2020, 2021, 2022, 2023, 2024, and 2025.
- Measurement of well depths indicate that no significant siltation into wells has occurred that will affect the usefulness of the wells for sample collection. Samples are collected by dedicated bladder pumps and micro-purge sampling methods to minimize sedimentation potential.

### 567 IAC 113.10(2)"f"(3) – well recharge rates and chemistry.

- Well recharge rates and chemistry are calculated and recorded at least once every two years in accordance with the HMSP.
- Purge rates used by the dedicated bladder pumps have remained consistent (micro-purge sampling methodology) indicating well yield, as necessary for sample collection, remains adequate. It is noted, however, that not all wells recover from purging at the same rate. At those locations this has been a relatively consistent condition since installation and reflective of the relatively low permeability of the shallow groundwater zone.
- The dedicated sampling equipment remains in good condition to provide water quality samples representative of groundwater conditions.
- Well chemistry has not varied to the extent that would suggest well deterioration.
- The physical condition of each well at the surface (well casing, protective casing, barrier posts) remains in good physical condition.

### 113.6(2)"I" – waste separation from groundwater.

- The design and operation of the groundwater underdrains (GU-B and GU-C) is addressed in *Section 2.3.*

# 4 Corrective Action Activities

Corrective actions were implemented beginning in the mid-1990's following the discovery of isolated groundwater VOC detections and the identification that the source of the detections was related to LFG migration. The initiation of corrective actions predates enactment of the revised IAC Chapter 113 solid waste rules in December 2007. A summary evaluation addressing how prior Landfill monitoring and implementation of corrective actions comply with the requirements of the IAC Chapter 113 subrules was presented to the IDNR in a September 28, 2012 correspondence. That evaluation focused on the IAC Chapter 113 subrules 113.10(6) Assessment monitoring program, 113.10(8) Selection of remedy, and 113.10(9) Implementation of a corrective action plan. The evaluation demonstrated that the actions implemented at the Landfill comply with, or meet the intent of, the revised IAC Chapter 113 rules. With minor clarification, the IDNR approved this evaluation.

The selected remedy to address the VOC groundwater detections is the management of LFG to minimize the amount of gas and its non-methane organic compounds (NMOCs) that can be dissolved into groundwater. LFG management also minimizes potential gas migration beyond the immediate vicinity of the unlined waste limits.

The LFG remedial plan is not specific to any individual groundwater well, but rather to the site as a whole. The effectiveness of the LFG remedial efforts may have a greater effect on wells nearer to the extraction points, but is not limited only to those points. A chronology of events related to the identification of impacts and the implementation of corrective actions is provided below.

- 1994 – Monitoring initiated for IDNR specified "assessment" VOCs at selected wells near northeastern limits of waste to track VOC detections.
- 1996 – Groundwater Quality Assessment Report (Geomatrix, March 1996) submitted to document results of study to determine source of VOCs in monitoring wells MW-11, MW-12 and MW-23. Report concluded through isotope analyses that impacts were the result of gas-to-water effects and that the VOCs posed no risk to human health and the environment.
- 1997 – Corrective action initiated with installation of three deep passive gas vent wells.
- 1998, 1999 – New monitoring wells MW-11A, MW-12A and MW-23A installed to enhance monitoring program near property boundary.
- 2000 - Phase B Groundwater Source Evaluation concluded VOC detections in Phase B groundwater were not the result of leachate migration (WM correspondence to IDNR Oct. 2000).
- 2000 – 2001 – Assessment monitoring terminated at MW-11A and MW-13A with IDNR approval after three consecutive events with no detections.
- 2003 – Assessment monitoring initiated at MW-12A & MW-23A in accordance with IDNR Permit.
- 2005 – Plans initiated to convert passive gas venting to an active LFG collection.
- 2006 – Active LFG extraction system start-up.



- 2009 – Significant LFG extraction system enhancements constructed.
- 2009 – Initiation of Assessment monitoring, as required by IAC Chapter 113, at locations with confirmed VOC detections. Assessment monitoring continued at specified locations in 2010 and 2011.
- 2011 – 2012 – LFG extraction system enhancements.
- 2013 – 2017 – Ongoing adjustment of LFG extraction system to maximize gas withdrawal.
- 2018 – Installation of additional horizontal collectors.
- 2019 – 2021 – Ongoing adjustment of the LFG extraction system.
- 2022 – Installation of additional LFG extraction wells; EW-38, EW-51, EW-52, EW-53, and EW-54.
- 2023 – Incorporation of additional LFG extraction wells (installed in 2022) into the gas extraction system.
- 2024 – Installation of an additional horizontal collector and additional gas collection piping.
- 2025 – Ongoing adjustment of the LFG extraction system.

## 4.1 Corrective Action Effectiveness and Risk Management

Implementation of LFG management as a groundwater corrective action addresses the source of the groundwater impacts and minimizes gas migration beyond the immediate vicinity surrounding the unlined waste limits. There have been no results, including Assessment monitoring specific parameters, metals or statistical data, that point to the need for corrective actions beyond those implemented to address LFG and VOCs in groundwater. Continued focus of corrective action on LFG management remains a prudent approach to addressing water quality issues at the Landfill.

The hydrogeologic conditions and existing monitoring data indicate that the VOC detections are localized to areas on Landfill property that are adjacent to the unlined waste and present in shallow groundwater, not within an aquifer used for drinking water supplies. These conditions, along with the lack of nearby groundwater receptors, indicate there is no risk to human health outside of potential LFG intrusion into landfill buildings, as addressed by the quarterly gas migration monitoring discussed in the Landfill Gas Monitoring and Management Report (see **Appendix B**).

The effectiveness of LFG management to mitigate groundwater VOC detections has been demonstrated through the ongoing VOC monitoring that began in 1994. The concentrations of select VOC parameters, as required by IDNR prior to 2009, are plotted against time on **Figure 4**. The total VOC concentrations, inclusive of all method 8260 parameters as required by IDNR Landfill permits post-2009, are plotted against time on **Figure 5**. Each of these figures illustrate the improvement in water quality as a result of LFG management at the Landfill. An estimate of 10 to 15 years to reduce groundwater concentrations to background conditions was provided in the September 28, 2012 correspondence to the IDNR.

In addition to managing VOCs through LFG controls, information has also been generated that indicates LFG migration affect the reduction-oxidation (redox) conditions of the aquifer which, in turn, can affect the mobility of naturally occurring metals, such as arsenic. This was identified during the investigation and

source evaluation work performed in the vicinity of MW-37A conducted in 2022 and is discussed further in *Section 5.3.2*.

Presently, collected data indicates that the VOC concentrations in groundwater have appreciably declined and appear to be nearing equilibrium, meaning they are in balance with natural attenuation capacity of the fine-grained sediments. The timeline for a return to background conditions relies upon continued reduced LFG generation and other related variables that are difficult to forecast. However, with respect to potential risk to groundwater receptors, it is evident that the activities completed to date by the Landfill have mitigated the potential risk for groundwater receptors. Ongoing operation of the LFG management system, coupled with gas migration and groundwater monitoring, will continue to track the effectiveness of the implemented corrective actions.

# 5 Data Evaluation and Summary

## 5.1 Groundwater Flow Conditions

A summary of Landfill groundwater elevations from 2010 through 2025 is presented in **Table 5**. Groundwater elevation fluctuation occurs in response to years of above average precipitation and years with below average precipitation, with shallower wells generally responding to a greater degree than deeper wells. Overall, the screened intervals of the wells remain appropriate for monitoring purposes and the overall flow regime has remained generally consistent over time.

Groundwater elevation data gathered during the fall event is represented on the water table configuration map presented as **Figure 6**. The map incorporates data from the water table wells and the fixed head elevations taken from the Phase B and C underdrain piping, as described in *Section 2.3*. The design results in a fixed head condition with inward gradient towards the underdrains and gravity flow towards the sumps. Groundwater flow is perpendicular to the contours (equipotential lines), and the interpretation presented is similar to that from previous monitoring dates. The overall south-to-southwesterly flow direction with the localized influence of the underdrains is consistent with interpretations from previous monitoring events. Based on this interpretation, the established water quality monitoring well network is well situated for the detection of potential impacts from the landfilled waste.

## 5.2 Quality Assurance/Quality Control (QA/QC) Review

Each 2025 monitoring event utilized established field and laboratory protocols to ensure, to the extent possible, that collected samples are representative of water quality at each respective sampling location. QA/QC procedures include use of dedicated bladder pumps at well locations, proper field protocols and shipment to the laboratory and implementation of internal laboratory protocols. For the 2025 sampling events, samples were received via overnight courier at acceptable temperatures and were analyzed within specified holding times. Trip/Field blanks were prepared/collected and analyzed for VOCs during the spring and fall events; no VOCs were detected in any of the analyzed QA/QC samples. If anomalous detections are observed then the laboratory may be requested to complete an internal data quality review (DQR) which may include reanalysis of the sample in question. With minor exceptions, as may be noted in the laboratory report narratives, the reports indicate conformance with QA/QC protocol and limits. Overall, QA/QC data indicates the reported data for the analyzed samples are valid.

## 5.3 2025 Monitoring Results

Semi-annual monitoring events at the Landfill consists of sampling and analysis for Appendix I parameters on a semi-annual basis. In addition, the Landfill voluntarily collects and analyzes samples for major ions concurrent with spring semi-annual monitoring events. Appendix I parameter results are compared against USEPA maximum contaminant levels (MCL) and/or IDNR groundwater protection standards (GWPS).



Monitoring data is also summarized within Otter Creek's statistical report (see **Appendix C**). The laboratory analytical report for the spring 2025 semi-annual event was provided to the IDNR with the Semi-Annual Monitoring Report dated September 3, 2025. The laboratory analytical reports for the fall 2025 semi-annual monitoring event are provided in **Appendix D**. The 2025 semi-annual monitoring results are discussed in the sections below.

### 5.3.1 Inorganic Groundwater Quality

Many of the inorganic parameters (metals) included in the Appendix I parameter list can be naturally occurring at varying levels depending on the hydro-geochemical environment and the redox state of the groundwater. Metals results can also potentially be affected by sediment in unfiltered and acid preserved groundwater samples. The metals results for the monitoring network, as shown in **Table 6**, identify some natural variability, as may be expected. None of the metal detections appear related to a landfill leachate release. It is noted that efforts are made to minimize potential sediment content of samples, including the use of dedicated bladder pumps and evaluation of potential sediment buildup in monitoring wells.

Consistent with past results, the few metals confirmed to be present at concentrations above their respective groundwater standard (MCL or GWPS) in 2025 consisted of arsenic, cobalt, and nickel. Concentrations for each of these parameters at relevant wells is presented in the table below.

*2025 inorganic parameter groundwater standard exceedance summary*

| Parameter | MCL/GWPS | Well | Concentration | | |
|---|---|---|---|---|---|
| | | | **05/12/2025** | **07/09/2025** | **10/14/2025** |
| Arsenic | 0.01 | MW-23A | 0.0108 | 0.0148 | 0.0122 |
| | | MW-37A | 0.0534 | -- | 0.0556 |
| Cobalt | 0.0021 | MW-12A | 0.0022 | -- | 0.00255 |
| | | MW-13A | 0.00237 | -- | ND |
| | | MW-23A | 0.0113 | -- | 0.00318 |
| | | MW-34A | 0.00402 | -- | ND |
| | | MW-37A | 0.023 | -- | 0.0212 |
| Nickel | 0.1 | MW-37A | 0.278 | -- | 0.289 |

**Notes:**
All concentrations presented in milligrams per liter (mg/L)
ND = Not Detected
Denotes unconfirmed result > MCL/GWPS

Review of reported results from the spring event identified an unconfirmed arsenic result for MW-23A above the MCL. The July 2025 confirmation sampling event for MW-23A identified arsenic above the MCL of 0.01 mg/L at a concentration of 0.0148 mg/L. As such, the spring event and July 2025 confirmation sampling event confirmed that arsenic was present above the MCL at MW-23A. Arsenic was also reported above the MCL at MW-23A during the fall event, though, it is noted that the concentration decreased with respect to

the July 2025 confirmation event result. With exception for MW-12A (barium and nickel), MW-19A (barium and nickel), and MW-37A (barium, nickel, and cobalt), metals results from the 2025 monitoring events remained within each well's respective historical range.

The presence of cobalt in the Landfill's monitoring network is attributed to naturally occurring background conditions (as evidenced by its presence in upgradient wells at concentrations above the GWPS) and, in part, due to changes in the redox state of the groundwater. The presence of other metals at concentrations above their respective groundwater performance standard is generally attributed to changes in the redox state of the underlying groundwater at the Landfill. These redox conditions have been reviewed in detail with other reports submitted to the IDNR (see *Section 5.3.2*).

#### 5.3.1.1 Major Ion Data

As previously noted, the Landfill collects major ions (calcium, magnesium, sodium, potassium, alkalinity, chloride, and sulfate) data at its own initiative as a potential aid in evaluating water quality data. Samples for major ions are collected during spring semi-annual monitoring events. Major ion data collected from 2008 through 2025 is presented in **Table 7**.

### 5.3.2 Groundwater Quality at MW-37A

An Alternative Source Demonstration (ASD) was completed in 2021 to evaluate the factors contributing to the arsenic concentrations at MW-37A. As a part of this ASD, trend charts were prepared showing arsenic versus both oxidation/reduction potential and groundwater elevation over time. Trend charts were updated with the information gathered through 2025 and are included as **Appendix E**. These updated trend charts support the following statements, as identified in the 2021 ASD:

- Beginning roughly in 2013, redox conditions in the vicinity of MW-37A have gradually shifted towards more reducing conditions. These shifts correlate reasonably well with increases in arsenic concentrations indicating a direct causal relationship (see **Appendix E**, **Figure 1**).
- Examination of arsenic concentrations with groundwater elevations reveals some correlation to water levels; however, the correlation is less pronounced historically. This suggests a minor causal relationship with water levels (see **Appendix E**, **Figure 2**).
- Some seasonality is evident in the trends, indicating that as water levels change and recharge events occur, they alter redox conditions which in turn mobilize or demobilize arsenic that is naturally present in the subsurface materials.

Since the time of the 2021 ASD, supplemental investigations and environmental monitoring have continued for MW-37A; supplemental investigations and environmental monitoring for MW-37A are summarized below:

- A field investigation to evaluate potential sources of the arsenic results reported at MW-37A and the construction of two temporary gas probes (GP-1T and GP-2T) near MW-37A was completed in 2022 pursuant to the IDNR-approved *2022 MW-37A Subsurface Investigation Work Plan* and the

*2022 MW-37A Investigation Gas Probe and Underdrain Sampling Work Plan* dated February 15, 2022, and February 25, 2022, respectively.

- The *2022 MW-37A Subsurface Investigation Report* dated June 1, 2022, provided a summary of the work completed during the 2022 field investigation. The 2022 investigation successfully delineated the vertical extent of elevated arsenic near MW-37A and identified a localized shift towards more reducing groundwater conditions, which mobilizes naturally occurring arsenic into groundwater. This report also provided information on the preliminary monitoring results at GP-1T and GP-2T, which identified that LFG may also contribute to reducing conditions at MW-37A.
- The results of the six month monitoring period for GP-1T and GP-2T was summarized to the IDNR in the *Temporary Gas Probe Monitoring Results & Schedule for Final Preparation of Assessment of Corrective Measures*, dated December 28, 2022. This letter also provided the IDNR a final Assessment of Corrective Measures (ACM). The ACM recommended continued monitoring of GP-1T and GP-2T from January-October 2023.
- The results of the temporary gas probe monitoring completed between January-October 2023 were summarized in the *2023 Annual Water Quality Report*, dated January 31, 2024. Within this report, it was recommended that monitoring of GP-1T and GP-2T continue on a quarterly schedule through 2024. This schedule has continued through 2025.

A comprehensive summary of methane results from the monitoring of the temporary gas probes though the 2025 calendar year is provided in **Appendix E** (see **Table E.1**). During 2025, methane was detected in GP-2T during the February 26, 2025 monitoring event, subsequent March 17, 2025 follow-up event, and the December 17, 2025 monitoring event. Methane was also detected in GP-1T during the December 17, 2025 monitoring event.

Following the February methane detection Landfill staff made adjustments to the gas collection system to apply more vacuum to the area. The follow-up event in March showed a decrease in methane at GP-2T and the next quarterly event did not detect methane at GP-2T. The December 2025 methane detections are attributed to the fact that the LFG flare was inoperable at the time of monitoring because of issues related to blower replacement activities conducted earlier in the month. Flare operation was restored the week of December 26, 2025.

As discussed in previous AWQRs, methane detections in the temporary gas probes have largely been attributed to flare downtime and flare mechanical and/or electrical issues. The Landfill completes repairs as soon as possible in order to ensure that the effective management of LFG at the facility is maintained. In general, measurements indicate that when the LFG management system is working as intended, it is effective in reducing the presence of LFG near MW-37A.

#### 5.3.2.1 Evaluation of Source Control Measures at MW-37A

The *IDNR 2025 Semi-Annal Report Letter* dated October 16, 2025 provided comment on the 2025 Semi-Annual Report noting that the spring 2025 statistical report identifies increasing trends in barium and nickel concentrations at monitoring well MW-37A and requested an evaluation of the effectiveness of the source control measures (landfill gas collection) at MW-37A. As evidenced by the intra-well control charts and

prediction limits figures for MW-37A (see **Appendix C**), barium and nickel at MW-37A have illustrated increasing trends since approximately 2016. Barium is well documented to exist at the Landfill in upgradient monitoring wells, and is known to be present in glacial till settings and the groundwater of Iowa (see *Section 5.3.3* for further detail). Nickel is not as commonly detected in the Landfill's upgradient monitoring wells; however, it is occasionally detected in MW-12A.

As summarized above, the 2021 ASD and the 2022 subsurface investigation identified that LFG migration caused a shift in the hydrogeochemical environment near MW-37A which resulted in the mobilization of arsenic into groundwater. It is possible that this environmental shift is also contributing to the mobilization of other metals, like barium and nickel, which are also naturally occurring in the subsurface soils. Like arsenic, the mobility of barium in groundwater is enhanced under reducing conditions (Sharma, et al., 2025). Similarly, nickel can be mobilized as a by-product of water level fluctuations and the resultant reduction of manganese oxides (Larsen & Postma, 1997). It is possible that LFG migration has resulted in a localized shift in hydrogeochemisty nearby MW-37A and that the reported metals results are reflective of the new environment working towards equilibrium.

As noted in *Section 4*, the Landfill has continued to modify and enhance the existing LFG management system as opportunities to do so arise. Extraction wells EW-38, EW-51, EW-52, EW-53, and EW-54 are located near MW-37A and were connected to the gas extraction system in 2023. It is anticipated that, over time, these extraction wells will minimize the potential for LFG intrusion into the Landfill's monitoring network. Based on the results collected to-date at the temporary gas probes, in general it appears that the LFG management system, when tuned, is effective in reducing the presence of LFG nearby the probes when the flare is operational. It is expected that continued operation of the LFG management system will work to reduce LFG migration, thus, leading towards improvement in inorganic groundwater quality at MW-37A. The Landfill continues to take measures to optimize its LFG management system and will continue to ensure its effective operation in the future.

The following conclusion and recommendations are provided based on the results from the gas monitoring of the temporary gas monitoring probes through 2025:

- In general, results of the gas monitoring at GP-1T and GP-2T indicate that the Landfill's active LFG collection system has proven to be effective in mitigating LFG migration in the vicinity of MW-37A, however, LFG migration in the vadose zone may occur when the Landfill's active LFG collection system operation is temporarily interrupted.
- Monitoring well MW-37A should continue to be monitored, to track increasing/decreasing parameter trends, in accordance with the established monitoring schedule consisting of semi-annual monitoring for Appendix I parameters and monitoring for Appendix II parameters on a once per five year basis.
- The methane detections at GP-2T in February and March 2025 suggest that the LFG system may occasionally require tuning to effectively mitigate LFG migration in the vicinity of MW-37A. Thus, monthly monitoring of temporary gas monitoring probes GP-1T and GP-2T during calendar year 2026 is proposed to ensure that the continued operation of the LFG collection system remains effective in mitigating LFG migration near MW-37A.

### 5.3.3 Barium at the Landfill

Barium has been, and continues to be, the most common metal parameter detected in the Landfill's groundwater monitoring network. There has not been any confirmed barium results above the groundwater performance standard (MCL) for any of the monitoring locations to date. Barium is naturally occurring and is common in glacial aquifer systems across the United States (Groschen, Arnold, Morrow, & Warner, 2009). A particular groundwater study conducted in Iowa indicated barium detections above the laboratory reporting limit of 0.05 mg/L in 67% of the sampled wells, with the highest detection of barium at 1.6 mg/L (Hruby, et al., 2013).

Barium concentrations detected in the upgradient background monitoring wells MW-11A and MW-13A and up- to side-gradient monitoring wells MW-23A and MW-34A are comparable to, and in some cases higher, than barium concentrations detected in most of the Landfill's downgradient monitoring wells. The statistical report (see **Appendix C**) indicates increasing barium trends in the background data sets for upgradient wells MW-12A and MW-13A, up- to side-gradient well MW-23A, and in downgradient wells MW-21A, MW-37A, and MW-38A. The above information and historical water quality data identifies the natural variability in barium concentrations for the Landfill's groundwater monitoring network.

The 2025 barium results for MW-21A are generally consistent with results from 2020–2024 and remain below the interwell prediction limits established from upgradient wells. Although the historical data show a slight upward trend in barium at MW-21A, the statistical report notes similar increasing trends in the background dataset. Overall, 2025 barium concentrations fall within the range observed across the monitoring network, including upgradient wells and nearby MW-39A. No confirmed VOC detections have been reported at MW-21A.

### 5.3.4 Organic Groundwater Quality

VOC results from the 2025 monitoring events remained consistent with historical data. There were no confirmed VOC detections for monitoring wells MW-11A, MW-13A, MW-19A, MW-21A, MW-34A, MW-39A, and MW-40A. The few confirmed VOC detections that did occur in 2025 have all previously been detected at each location and the concentrations observed in 2025 are generally lower or similar to recent results.

**Table 8** provides a historical summary of VOC detections at the Landfill. In addition, the Statistical Report (see **Appendix C**) provides a summary table of historical organic groundwater quality at the Landfill. The principal location for confirmed VOC detections remains MW-12A and, to a lesser extent, MW-23A, MW-37A, and MW-38A. Each of these wells are located in close proximity to the waste limits. During the 2025 monitoring events the only VOC detected at concentrations above its groundwater performance standard was vinyl chloride at MW-12A. Trichloroethene had often been detected above its groundwater performance standard at MW-23A from 2009 through 2023, but remained below the MCL in 2025.



## 5.4 Statistical Data Evaluation

Statistical groundwater quality analysis is required by IAC 567, Chapter 113.10(4) to identify changes in water quality that may be indicative of a potential leachate release from the landfill. The statistical approach implemented by Otter Creek involves interwell analysis and, as requested by the IDNR as a secondary step, intrawell statistics. The fundamental principle upon which interwell comparisons are based is that the groundwater upgradient of the landfill is related to the groundwater downgradient. In low permeability settings, because of the extremely long travel times, this principle is often not satisfied. The intrawell statistics are included for information purposes because of the fact that the facility is located in a low permeability glacial till environment.

Otter Creek has prepared the groundwater statistical analyses for the Landfill. Their report is provided in its entirety as **Appendix C**. It presents comprehensive data summaries of analytical data, prediction limit exceedances, VOC detections and their confidence limits and associated explanations.

During 2025, verified interwell prediction limit exceedances were identified for arsenic and barium at MW-23A and MW-37A, nickel at MW-19A, MW-37A, and MW-38A, and cobalt at MW-37A. The prediction limit exceedance for arsenic at MW-23A is new. As noted below, MW-23A is already in the Assessment monitoring program. As discussed in the statistical report and illustrated on the respective control charts within the statistical report, each of remaining prediction limit exceedances observed in 2025 have previously occurred. The prediction limit exceedances for arsenic at MW-23A and arsenic, cobalt, and nickel at MW-37A are associated with MCL/GWPS exceedances. None of the remaining prediction limit exceedances are associated with MCL/GWPS exceedances.

## 5.5 Assessment Monitoring

As noted in *Section 2.2.2*, monitoring wells in the Assessment monitoring program are those where VOCs have been confirmed and/or where there is a confirmed interwell statistical exceedance attributable to the Landfill. These locations include MW-12A, MW-19A, MW-23A, MW-37A, and MW-38A; their Assessment status is based principally on VOC detections. Through 2025 no wells are proposed to be removed from, or entered into, Assessment status.

Testing for the Appendix II parameter list conducted to date has not detected any additional parameters that should be added to the semi-annual Detection monitoring parameter list. In other words, none of the parameters specific only to Appendix II (pesticides, herbicides, PCBs, semi-volatiles, mercury, tin, sulfide, and cyanide) have been confirmed to be present at the locations sampled. These additional parameters are not typically associated with landfill leachate and are not typically included with detection monitoring programs. A summary of historical Appendix II monitoring data is included in **Table 9**. Monitoring wells in the Assessment monitoring program will next be sampled and analyzed for Appendix II parameters in spring 2026 (see **Table 1**).



## 5.6 2025 Holding Pond Data

Inorganic, major ion, and organic parameter results for the Groundwater Holding Pond are summarized alongside results from the Landfill's monitoring wells in **Tables 6**, **7**, and **8**. Groundwater Holding Pond monitoring results from 2020 through fall 2025 are compared to NPDES Uncontaminated Groundwater Criteria on **Table 10**. There were no VOC detections reported in the samples collected from the Holding Pond in 2025. None of the 2025 Groundwater Holding Pond monitoring results exceed the NPDES Uncontaminated Groundwater Criteria.

Statistical evaluation of the 2025 Groundwater Holding Pond results identified interwell prediction limit (spring) and intrawell control limit (spring and fall) exceedances for nickel, and unverified interwell prediction limit (fall) and intrawell control limit (fall) exceedances for arsenic. Verified interwell prediction limit and interwell control limit exceedances for arsenic at the Groundwater Holding Pond have occurred in the past.

The fall event arsenic concentration of 0.0109 mg/L reported for the Groundwater Holding Pond is above the MCL of 0.010 mg/L.

The actual nickel concentrations of 0.0221 mg/L and 0.0142 mg/L during the spring and fall 2025 events, respectively, are less than the IDNR GWPS of 0.1 mg/L for nickel. A summary of the Groundwater Holding Pond nickel and previous underdrain results was provided by the Landfill to the IDNR via email on January 10, 2025. According to the IDNR letter dated January 16, 2025, the IDNR agrees that the levels of nickel observed in the water in the Holding Pond from the groundwater underdrains are naturally occurring. The 2025 nickel concentration reported for the Groundwater Holding Pond are within the range of nickel concentrations detected in the Groundwater Holding Pond and groundwater underdrain system historically. Thus, the 2025 Groundwater Holding Pond nickel result and subsequent statistical exceedance, are not attributable to the Landfill, rather, are representative of naturally occurring water quality.

The collected major ion data for the Groundwater Holding Pond to date continues to indicate a distinct chemical signature that is different from that of leachate. The major ion data is not required by the Landfill permit but is collected at the discretion of the Landfill for use in comparing leachate and natural water quality. Based on these results and a review of historical information, there has been no indication of leachate mixing in the groundwater discharged to the Groundwater Holding Pond from GU-B/C, and the nickel results for the Groundwater Holding Pond are representative of natural conditions in the groundwater pumped from GU-B/C. The fall 2025 arsenic result does not correlate with other leachate indicators such as VOCs or elevated concentrations of other inorganic parameters. However, in accordance with past management practices, the Groundwater Holding Pond results from the fall event do not allow for discharge due to the statistical exceedances for arsenic.

No water was released from the Groundwater Holding Pond in 2025. Consistent with past management practices, no water will be released from the Groundwater Holding Pond unless the water is confirmed to be free of detectable VOCs, there are no statistical exceedances attributable to the Landfill and, of the parameters tested for, no NPDES Uncontaminated Groundwater Criteria exceedances.



## 5.7 MW-41A Background Monitoring Results

Background monitoring for recently installed monitoring well MW-41A was completed in October, November and December 2025 (see **Table 3b)**. No VOCs were detected in any of the samples collected from MW-41A in 2025. Inorganic results from the first three background events completed for MW-41A identify results that are representative of naturally occurring ambient water quality conditions at the Landfill. Analytical results are summarized on **Table 6**, **Table 7**, and **Table 8**. The laboratory analytical reports for the three MW-41A background monitoring events completed in 2025 are provided in **Appendix D**.

# 6 2026 Monitoring Schedule

The proposed 2026 monitoring schedule is provided as **Table 11** and includes semi-annual monitoring for Detection monitoring (Appendix I) parameters for all monitoring points in the Detection monitoring program and Appendix II monitoring during the spring 2026 event for all monitoring wells in the Assessment monitoring program. Assessment monitoring would also be implemented for a new location where it has not yet been completed if confirmed VOC detections or confirmed statistical control limit exceedances attributable to the Landfill occur. Confirmatory sampling events for specific locations and analytes may also be completed, as necessary.

Background monitoring for MW-41A will continue in 2026 in accordance with the schedule provided on **Table 3b**.



# 7 Conclusions and Recommendations

Conclusions and recommendations based on the results presented herein are provided below:

1. The 2025 semi-annual monitoring events were completed in accordance with the approved monitoring schedule provided on **Table 3a** and in accordance with the 2009 HMSP. All locations and parameters were accounted for during the 2025 semi-annual monitoring events.
2. The existing monitoring network continues to provide for the early detection of potential landfill effects on water quality with groundwater elevations consistently indicating flow to the south-southwest. Individual monitoring wells remain in good condition. Two modifications were made to the monitoring network in 2025, consisting of the sealing of MW-36A and installation of MW-41A.
3. The first three background monitoring events for new monitoring well MW-41A have been completed and background monitoring for MW-41A will continue in 2026 in accordance with the schedule outlined on **Table 3b**.
4. Extensive groundwater monitoring data has consistently indicated over the Landfill's history that there is minimal risk to groundwater receptors.
5. Appendix I metals results remain generally consistent with previously collected data and, with few exception, are below their respective groundwater standards (MCL/GWPS) and within statistical limits.
6. VOC detections in 2025 occurred at locations where they have historically occurred, primarily MW-12A and to a lesser extent MW-23A, MW-37A and MW-38A. These detections presently are at relatively low concentrations and remain consistent with recent monitoring results after having decreased significantly over the past two decades.
7. Corrective actions were implemented beginning in 1997 to address landfill gas effects on VOC water quality. Significant enhancements have since been made to the landfill gas management system and gradual water quality improvement has been observed.
8. The LFG management system was most recently modified in 2024 with the installation of additional horizonal header and gas collection piping.
9. The Groundwater Holding Pond was sampled during each semi-annual monitoring event. There were no VOC detections during either event nor any results above NPDES Uncontaminated Groundwater Criteria. Nickel exceeded statistical limits during the spring and fall events. Arsenic was detected in the during the fall event above the statistical limits. The level of nickel detected in the Groundwater Holding Pond are representative of background water quality in the groundwater pumped from GU-B/C (see *Section 5.6*).
10. There was no water discharged from the Groundwater Holding Pond in 2025. Discharge of water from the Holding Pond is allowed when there are no VOC detections, no statistically significant increases attributed to the Landfill and, of the parameters tested for, no exceedances of NPDES Uncontaminated Groundwater Criteria.
11. Continued monitoring of the relationship between redox potential, groundwater elevations, and metals concentrations at MW-37A is recommended.
12. In general, gas monitoring results from temporary gas probes GP-1T and GP-2T indicate that the LFG management system is effective in mitigating LFG migration when it is operated efficiently, appropriately tuned, and adjusted as needed.



13. The temporary gas probes GP-1T and GP-2T near MW-37A will be monitored on a monthly basis during calendar year 2026 to better monitor the effectiveness of the LFG management system and determine if adjustments to the LFG management system are necessary.
14. The 2026 semi-annual monitoring events will be completed in accordance with the monitoring schedule provided on **Table 11**. The 2026 spring event will include monitoring for IDNR Appendix II parameters for all wells in Assessment status.

# 8 References

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# Tables

# Table 1 - Hydrologic Monitoring System Well Status [(1)]

Dickinson Landfill - Spirit Lake, Iowa
Permit No. 30-SDP-01-75P

| Location | Position | Well Status / Use | Assessment Events | Next Full Appendix II List |
|---|---|---|---|---|
| MW-10 (sealed) | ~~upgradient~~ (sealed) | sealed Aug 2009 | na | na |
| MW-11 (sealed) | ~~upgradient~~ (sealed) | sealed Aug 2009 | na | na |
| MW-11A | upgradient | Detection | na | na |
| MW-12A * | upgradient | Assessment | 6 events, 2009-2021 | 2026 |
| MW-13A | upgradient | Detection | na | na |
| MW-14A | up/sidegradient | WL | na | na |
| MW-15A | sidegradient | WL | na | na |
| MW-17A | side/downgradient | WL | na | na |
| MW-18A (sealed) | ~~downgradient~~ (sealed) | sealed Apr 2018 | na | na |
| MW-19A * | downgradient | Assessment | 6 events, 2009-2021 | 2026 |
| MW-21A | downgradient | Detection | na | na |
| MW-22 (sealed) | ~~sidegradient~~ (sealed) | sealed Sept 2014 | 2 events, 2011 | na |
| MW-23 (sealed) | ~~up/sidegradient~~ (sealed) | sealed Aug 2009 | na | na |
| MW-23A * | up/sidegradient | Assessment | 5 events, 2010-2021 | 2026 |
| MW-29 (sealed) | ~~sidegradient~~ (sealed) | sealed Sept 2014 | 2 events, 2011 | na |
| MW-34A | up/sidegradient | Detection | na | na |
| MW-36A (sealed) | ~~sidegradient~~ (sealed) | sealed Sept 2025 | na | na |
| MW-37A * | downgradient | Assessment | 5 events, 2010-2021 | 2026 |
| MW-38A * | downgradient | Assessment | 5 events, 2010-2021 | 2026 |
| MW-39A | downgradient | Detection | na | na |
| MW-40A | sidegradient | Detection | na | na |
| MW-41A [3] | downgradient | Detection [3] | na | na |
| Phase B&C (GU-B and GU-C)[4] | underdrain(s)[4] | ~~Detection~~ [2] | 4 events 2009-2011 | na |
| Groundwater Holding Pond[4] | discharge from underdrain(s)[4] | (to be removed)[4] | na | na |

**Notes:**

(1) - Hydrologic monitoring system in accordance with 2009 HMSP, IDNR approved modifications, and as modified for 2025 permit renewal application and associated 2025 HMSP

2 - Dec 2012 Groundwater Holding Pond sampled in place of GU-B/C, per IDNR letter Nov. 8, 2012

3 - New downgradient Detection monitoring well currently in Background monitoring mode until the 8 background data sets required for statistical program are complete (anticipated July 2026). Well will then be incorporated into routine semi-annual Detection monitoring schedule and statistical program (anticipated fall 2026).

4 - Requesting to remove these features from the monitoring program as part of 2025 permit renewal application and associated 2025 HMSP

WL - Well location available for water elevation monitoring, not part of routine monitoring program

*= Assessment well, sampled for full Appendix II parameter list per five year schedule (next event 2026). Wells sampled per semi-annual detection schedule during interim

na= not applicable

# Table 2 - Monitoring Well Construction Summary

Dickinson Landfill - Spirit Lake, Iowa

Permit No. 30-SDP-01-75P

| Well ID | Dates | | Well Construction Information | | | | | | | | Elevations | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *Installed* | *Sealed* | *Depth (Ft. From TOC)* | *Material & Size (In.)* | *Screen Length (Ft.)* | *Slot Size (In.)* | *Filter Pack* | *Filter Pack Interval (Ft. MSL)* | *Seal Material* | *Seal Interval (Ft. MSL)* | *Ground (Ft. MSL)* | *TOC (Ft. MSL)* | *Screened Interval (Ft. MSL)* |
| MW-10 | 4/12/91 | Sep. '09 | 64.13 | PVC, 2 | 10.0 | 0.010 | Muscatine Sand | -- | Bentonite Chips | -- | 1,535.6 | 1,537.26 | 1,471.00-1,481.00 |
| MW-11 | 4/12/91 | Sep. '09 | 26.84 | PVC, 2 | 10.0 | 0.010 | Muscatine Sand | -- | Bentonite Chips | -- | 1,535.4 | 1,537.31 | 1,510.00-1,520.00 |
| MW-11A | 8/31/99 | -- | 31.00 | PVC, 2 | 15.0 | 0.007 | Redflint | 1,501.39-1,521.39 | Bentonite Chips | 1,521.39-1,523.39 | 1,529.7 | 1,532.39 | 1,516.7-1,501.7 |
| MW-12 | 4/12/91 | Sep. '98 | 25.98 | PVC, 2 | 10.0 | 0.010 | Muscatine Sand | -- | Bentonite Chips | -- | 1,536.00 | 1,537.45 | 1,511.00-1,521.00 |
| MW-12A | 9/14/98 | -- | 33.82 | PVC, 2 | 15.0 | 0.007 | Silica Sand | 1,502.70-1,519.20 | Bentonite Chips | 1,519.20-1,522.00 | 1,534.70 | 1,536.52 | 1,502.7-1,517.7 |
| MW-13 | 4/12/91 | Sep. '98 | 25.72 | PVC, 2 | 10.0 | 0.010 | Muscatine Sand | -- | Bentonite Chips | -- | 1,508.00 | 1,509.91 | 1,484.00-1,494.00 |
| MW-13A | 9/15/98 | -- | 34.06 | PVC, 2 | 15.0 | 0.007 | Silica Sand | 1,475.80-1,492.30 | Bentonite Chips | 1,492.30-1,495.30 | 1,507.80 | 1,509.86 | 1,475.8-1,490.8 |
| MW-14 | 4/12/91 | Sep. '98 | 21.92 | PVC, 2 | 10.0 | 0.010 | Muscatine Sand | -- | Bentonite Chips | -- | 1,481.00 | 1,483.18 | 1,461.00-1,471.00 |
| MW-14A | 4/9/96 | -- | 22.45 | PVC, 2 | 15.5 | 0.010 | Redflint to 1478.0, Silica Sand to 1478.5 | 1,461.53-1,478.50 | Bentonite Chips | 1,478.50-1,479.03 | 1,482.03 | 1,483.98 | 1,461.53-1,477.03 |
| MW-15 | 4/12/91 | Sep. '98 | 40.19 | PVC, 2 | 10.0 | 0.010 | Muscatine Sand | -- | Bentonite Chips | -- | 1,472.00 | 1,474.16 | 1,434.00-1,444.00 |
| MW-15A | 4/11/96 | -- | 26.67 | PVC, 2 | 20.0 | 0.010 | Redflint to 1470.4, Silica Sand to 1470.9 | 1,449.36-1,470.90 | Bentonite Chips | 1,470.90-1,471.36 | 1,474.36 | 1,476.03 | 1,449.36-1,469.36 |
| MW-16 | 4/12/91 | Sep. '98 | 21.92 | PVC, 2 | 10.0 | 0.010 | Muscatine Sand | -- | Bentonite Chips | -- | 1,472.00 | 1,474.10 | 1,452.00-1,462.00 |
| MW-17 | 4/12/91 | Sep. '98 | 35.22 | PVC, 2 | 10.0 | 0.010 | Muscatine Sand | -- | Bentonite Chips | -- | 1,484.00 | 1,475.88 | 1,451.00-1,461.00 |
| MW-17A | 4/10/96 | -- | 22.33 | PVC, 2 | 15.0 | 0.010 | Redflint to 1467.3, Silica Sand to 1467.8 | 1,451.27-1,467.80 | Bentonite Chips | 1,467.80-1,468.27 | 1,471.27 | 1,473.61 | 1,451.27-1,466.27 |
| MW-18 | 4/12/91 | Sep. '98 | 21.73 | PVC, 2 | 10.0 | 0.010 | Muscatine Sand | -- | Bentonite Chips | -- | 1,465.00 | 1,466.78 | 1,445.00-1,455.00 |
| MW-18A | 4/9/96 | Apr. '18 | 22.59 | PVC, 2 | 15.5 | 0.010 | Redflint to 1462.9, Silica Sand to 1463.4 | 1,446.37-1,463.40 | Bentonite Chips | 1,463.40-1,463.87 | 1,466.87 | 1,468.96 | 1,446.37-1,461.87 |
| MW-19 | 4/12/91 | Sep. '98 | 55.49 | PVC, 2 | 10.0 | 0.010 | Muscatine Sand | -- | Bentonite Chips | -- | 1,467.00 | 1,469.65 | 1,412.00-1,422.00 |
| MW-19A | 4/11/96 | -- | 22.16 | PVC, 2 | 15.0 | 0.010 | Redflint to 1463.5, Silica Sand to 1463.96 | 1,447.46-1,463.96 | Bentonite Chips | 1,463.96-1,464.46 | 1,467.46 | 1,469.58 | 1,447.46-1,462.46 |
| MW-20 | 4/12/91 | Sep. '98 | 21.51 | PVC, 2 | 10.0 | 0.010 | Muscatine Sand | -- | Bentonite Chips | -- | 1,468.00 | 1,470.20 | 1,448.00-1,458.00 |
| MW-21 | 4/12/91 | Sep. '98 | 36.77 | PVC, 2 | 10.0 | 0.010 | Muscatine Sand | -- | Bentonite Chips | -- | 1,500.00 | -- | 1,465.00-1,475.00 |
| MW-21A | 4/11/96 | -- | 49.39 | PVC, 2 | 25.0 | 0.010 | Redflint to 1478.5, Silica Sand to 1479.5 | 1,450.49-1,479.50 | Bentonite Chips to 1481.5, Volclay Bentonite to 1494.5 | 1,479.50-1,494.50 | 1,497.49 | 1,499.88 | 1,450.49-1,475.49 |
| MW-22 | 4/12/91 | Apr. '14 | 19.25 | PVC, 2 | 5.0 | 0.010 | Muscatine Sand | -- | Bentonite Chips | -- | 1,488.70 | 1,490.63 | 1,471.00-1,476.00 |
| MW-23 | 4/12/91 | Sep. '09 | 24.90 | PVC, 2 | 10.0 | 0.010 | Muscatine Sand | -- | Bentonite Chips | -- | 1,506.80 | 1,508.81 | 1,484.00-1,494.00 |
| MW-23A | 8/31/99 | -- | 25.00 | PVC, 2 | 15.0 | 0.007 | Redflint | 1,476.80-1,493.80 | Bentonite Chips | 1,493.80-1,495.80 | 1,498.84 | 1,501.73 | 1,476.80-1,491.80 |
| MW-24 | 4/12/91 | -- | 27.91 | PVC, 2 | 10.0 | 0.010 | Muscatine Sand | -- | Bentonite Chips | -- | 1,491.00 | 1,493.67 | 1,467.00-1,477.00 |
| MW-25 | 6/2/92 | -- | 51.67 | PVC, 2 | 10.0 | 0.010 | Muscatine Sand | -- | Bentonite Chips | -- | 1,504.00 | 1,506.27 | 1,455.00-1,465.00 |
| MW-26 | 6/2/92 | -- | 22.69 | PVC, 2 | 10.0 | 0.010 | Muscatine Sand | -- | Bentonite Chips | -- | 1,504.00 | 1,506.20 | 1,484.00-1,494.00 |
| MW-27 | 6/2/92 | -- | 47.91 | PVC, 2 | 10.0 | 0.010 | Muscatine Sand | -- | Bentonite Chips | -- | 1,491.00 | 1,492.88 | 1,445.00-1,455.00 |
| MW-28 | 6/2/92 | -- | 64.86 | PVC, 2 | 10.0 | 0.010 | Muscatine Sand | -- | Bentonite Chips | -- | 1,502.00 | 1,501.90 | 1,439.00-1,449.00 |
| MW-29 | 6/2/92 | Sep. '14 | 55.24 | PVC, 2 | 10.0 | 0.010 | Muscatine Sand | -- | Bentonite Chips | -- | 1,489.00 | 1,491.03 | 1,436.00-1,446.00 |
| MW-30A | 4/10/96 | Apr. '00 | 27.34 | PVC, 2 | 20.0 | 0.010 | Redflint to 1488.4, Silica Sand to 1488.9 | 1,467.38-1,488.90 | Bentonite Chips | 1,488.90-1,489.38 | 1,492.38 | 1,494.72 | 1,467.38-1,487.38 |
| MW-32A | 4/10/96 | Apr. '00 | 27.38 | PVC, 2 | 20.0 | 0.010 | Redflint to 1475.1, Silica Sand to 1475.6 | 1,453.10-1,475.60 | Bentonite Chips | 1,475.60-1,476.10 | 1,478.10 | 1,480.48 | 1,453.10-1,473.10 |
| MW-34A | 9/12/00 | -- | 29.06 | PVC, 2 | 20.0 | 0.006 | 40/30 Unimin | -- | Bentonite/Neat Cement | -- | 1,485.00 | 1,486.93 | 1,458.0-1,478.0 |
| MW-36A | 9/11/00 | Sept. '25 | 29.13 | PVC, 2 | 20.0 | 0.006 | 40/30 Unimin | -- | Bentonite/Neat Cement | -- | 1,478.10 | 1,480.12 | 1,451.1-1,471.1 |
| MW-37A | 8/25/09 | -- | 36.50 | PVC, 2 | 15.0 | 0.010 | 20/40 Unimin | -- | Bentonite/Neat Cement | -- | 1,484.30 | 1,486.35 | 1,449.8-1,464.8 |
| MW-38A | 8/25/09 | -- | 31.00 | PVC, 2 | 15.0 | 0.010 | 20/40 Unimin | -- | Bentonite/Neat Cement | -- | 1,480.20 | 1,482.26 | 1,451.2-1,466.2 |
| MW-39A | 5/22/12 | -- | 22.00 | PVC, 2 | 15.0 | 0.010 | 20/40 Unimin | -- | Bentonite/Neat Cement | -- | 1,476.40 | 1,478.60 | 1,454.4-1,469.4 |
| MW-40A | 9/18/14 | -- | 32.30 | PVC, 2 | 15.0 | 0.010 | 20/40 Silica Sand | -- | Bentonite/Neat Cement | -- | 1,494.70 | 1,496.91 | 1,464.7-1,479.7 |
| MW-41A | 9/24/25 | -- | 32.47 | PVC, 2 | 15.0 | 0.010 | 20/40 Silica Sand | 1,450.75-1,467.75 | Bentonite Chips | 1467.75 - 1,476.75 | 1,480.75 | 1,483.22 | 1,450.75-1,465.75 |

**Notes:**

TOC = Top of Casing

Ft. MSL = Feet relative to Mean Sea Level (MSL)

PVC = Polyvinyl Chloride

# Table 3a - 2025 Monitoring Schedule

Dickinson Landfill - Spirit Lake, Iowa
Permit No. 30-SDP-01-75P

| Well/Monitoring Location ID | | March | May 12, 2025 | July 9, 2025 | October 14, 2025 | November 24, 2025 |
|---|---|---|---|---|---|---|
| MW-11A | | -- | Appendix I & *major ions** | -- | Appendix I | -- |
| MW-12A** | | -- | Appendix I & *major ions** | -- | Appendix I | -- |
| MW-13A | | -- | Appendix I & *major ions** | -- | Appendix I | -- |
| MW-14A | | -- | WL | -- | WL | -- |
| MW-15A | | -- | WL | -- | WL | -- |
| MW-17A | | -- | WL | -- | WL | -- |
| MW-19A** | | -- | Appendix I & *major ions** | -- | Appendix I | -- |
| MW-21A | | -- | Appendix I & *major ions** | -- | Appendix I | -- |
| MW-23A** | | -- | Appendix I & *major ions** | Arsenic | Appendix I | -- |
| MW-34A | | -- | Appendix I & *major ions** | -- | Appendix I | Appendix I |
| MW-36A | | -- | Appendix I & *major ions** | -- | Sealed | -- |
| MW-37A** | | -- | Appendix I & *major ions** | -- | Appendix I | -- |
| MW-38A** | | -- | Appendix I & *major ions** | -- | Appendix I | -- |
| MW-39A | | -- | Appendix I & *major ions** | -- | Appendix I | -- |
| MW-40A | | -- | Appendix I & *major ions** | -- | Appendix I | -- |
| GU-B / C (one sample) ** (2) | | -- | -- (2) | -- | -- (2) | -- |
| GW Holding Pond (2) | | -- | Appendix I, *major ions**, and NPDES | -- | Appendix I and NPDES | -- |
| Leachate (1) | | -- | Appendix I & *major ions** & *WWTP facility Parameters* | -- | -- | -- |
| Outfall | | NPDES parameters upon request / as needed | | | | |

**EXPLANATION:**

**Appendix I (Detection** monitoring parameters per Appendix I list from IDNR rules) = Total metals (antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt copper, lead, nickel, selenium, silver, thallium, vanadium, zinc; VOCs, TSS, & field parameters WL, pH, conductance, temp, turbidity.

**Appendix II (Assessment** parameters per the Appendix II list from IDNR rules: parameters include all Appendix I parameters plus pesticides, herbicides, PCBs, Semi-volatiles, and inorganics cyanide, mercury, sulfide and tin

** Well scheduled for analyses of Appendix II [Assessment] parameters 2026

**Leachate** = parameters include Appendix I [Detection], major ions & **additional WWTP analytes** (Ammonia N, Iron, Mercury, Phenol, COD, CBOD5 and TKN)

* **Major ions** = monitoring for *major ions (calcium, magnesium, sodium, potassium, alkalinity, chloride & sulfate)* at Landfill initiative & use for alternative source demonstrations

**(1)** - Leachate sample from manhole entry into new (2011) leachate pond or direct from new pond (4/24/12)

**(2)** - Holding Pond to be sampled in place of GU-B/C underdrains per IDNR letter November 8, 2012

**NPDES** = oil&grease, Alk., cyanide, ammonia, Nitrate+Nitrite, COD, pH, chloride, sulfate, TOC, TDS, Mg (dissolved), Mg (total), total metals As, Ba, Cd, Ca, Cr, Fe, Pb, K, Ag, Na, Se, Hg

## Table 3b - MW-41A Background Monitoring Schedule

Dickinson Landfill - Spirit Lake, Iowa
Permit No. 30-SDP-01-75P

| Well/Monitoring Location ID | | October 14, 2025 | November 24, 2025 | December 22, 2025 | January 2026 | March 2026 | April 2026 | May 2026 | July 2026* | Fall 2026[1] |
|---|---|---|---|---|---|---|---|---|---|---|
| MW-41A | | Background Event #1 | Background Event #2 | Background Event #3 | Background Event #4 | Background Event #5 | Background Event #6 | Background Event #7 | Background Event #8 | Semi-Annual Detection Monitoring event |
| | | Appendix I | Appendix I | Appendix I | Appendix I | Appendix I | Appendix I | Appendix I | Appendix I | Appendix I |

**EXPLANATION:**

Appendix I (Detection monitoring parameters per Appendix I list from IDNR rules) = Total metals (antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt copper, lead, nickel, selenium, silver, thallium, vanadium, zinc; VOCs, TSS, & field parameters WL, pH, conductance, temp, turbidity.

* 8th round of background to be collected prior to waste placement

[1] = MW-41A to be incorporated into semi-annual detection monitoring schedule and statistical program (fall 2026)

Schedule may be adjusted due to weather constraints.

# Table 4 - Well Condition and Performance

Dickinson Landfill - Spirit Lake, Iowa

Permit No. 30-SDP-01-75P

| Monitoring Well ID | MW-11A | MW-12A | MW-13A | MW-14A | MW-15A | MW-17A | MW-18A | MW-19A | MW-21A | MW-22 | MW-23A | MW-29 | MW-34A | MW-36A | MW-37A | MW-38A | MW-39A | MW-40A | MW-41A |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Constructed Depth (Ft. from TOC)** | ***31.00*** | ***33.82*** | ***34.06*** | ***22.45*** | ***26.67*** | ***22.33*** | ***22.59*** | ***22.16*** | ***49.39*** | ***19.25*** | ***24.90*** | ***55.24*** | ***29.06*** | ***29.13*** | ***36.50*** | ***31.00*** | ***22.00*** | ***32.30*** | ***32.47*** |
| *2012* | | | | | | | | | | | | | | | | | | | |
| *Well Depth (Ft. from TOC)* | 31.0 | 34.0 | 34.6 | 17.1[(1)] | 22.9 | 17.9[(1)] | 17.9 | 22.7 | 49.8 | 19.1 | 25.0 | 54.9 | 28.9 | 29.0 | 32.2 | 32.2 | 24.1 | -- | --- |
| *Purge Rate (gpm)* | 0.5 | 0.5 | 0.5 | -- | -- | -- | -- | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | -- | --- |
| *Pre-Purge DTW (Ft. from TOC)* | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | --- |
| *Post-Purge DTW (Ft. from TOC)* | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | --- |
| *Dedicated Pump Condition* | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | --- |
| *2014* | | | | | | | | | | | | | | | | | | | |
| *Well Depth (Ft. from TOC)* | -- | -- | -- | -- | 22.0 | 27.9 | 23.0 | 17.6 | -- | *Sealed Sep. '14* | -- | *Sealed Sep. '14* | -- | -- | -- | -- | -- | -- | --- |
| *Purge Rate (gpm)* | -- | -- | -- | -- | -- | -- | -- | -- | -- | | -- | | -- | -- | -- | -- | -- | -- | --- |
| *Pre-Purge DTW (Ft. from TOC)* | -- | -- | -- | -- | -- | -- | -- | -- | -- | | -- | | -- | -- | -- | -- | -- | -- | --- |
| *Post-Purge DTW (Ft. from TOC)* | -- | -- | -- | -- | -- | -- | -- | -- | -- | | -- | | -- | -- | -- | -- | -- | -- | --- |
| *Dedicated Pump Condition* | -- | -- | -- | -- | -- | -- | -- | -- | -- | | -- | | -- | -- | -- | -- | -- | -- | --- |
| *2015* | | | | | | | | | | | | | | | | | | | |
| *Well Depth (Ft. from TOC)* | -- | -- | -- | -- | 22.0 | 28.0 | 22.9 | 17.6 | -- | *Sealed Sep. '14* | -- | *Sealed Sep. '14* | -- | -- | -- | -- | -- | -- | --- |
| *Purge Rate (gpm)* | -- | -- | -- | -- | -- | -- | -- | -- | -- | | -- | | -- | -- | -- | -- | -- | -- | --- |
| *Pre-Purge DTW (Ft. from TOC)* | -- | -- | -- | -- | -- | -- | -- | -- | -- | | -- | | -- | -- | -- | -- | -- | -- | --- |
| *Post-Purge DTW (Ft. from TOC)* | -- | -- | -- | -- | -- | -- | -- | -- | -- | | -- | | -- | -- | -- | -- | -- | -- | --- |
| *Dedicated Pump Condition* | -- | -- | -- | -- | -- | -- | -- | -- | -- | | -- | | -- | -- | -- | -- | -- | -- | --- |
| *2016* | | | | | | | | | | | | | | | | | | | |
| *Well Depth (Ft. from TOC)* | -- | -- | -- | -- | 22.0 | 27.9 | 23.0 | 17.6 | -- | *Sealed Sep. '14* | -- | *Sealed Sep. '14* | -- | -- | -- | -- | -- | -- | --- |
| *Purge Rate (gpm)* | -- | -- | -- | -- | -- | -- | -- | -- | -- | | -- | | -- | -- | -- | -- | -- | -- | --- |
| *Pre-Purge DTW (Ft. from TOC)* | -- | -- | -- | -- | -- | -- | -- | -- | -- | | -- | | -- | -- | -- | -- | -- | -- | --- |
| *Post-Purge DTW (Ft. from TOC)* | -- | -- | -- | -- | -- | -- | -- | -- | -- | | -- | | -- | -- | -- | -- | -- | -- | --- |
| *Dedicated Pump Condition* | -- | -- | -- | -- | -- | -- | -- | -- | -- | | -- | | -- | -- | -- | -- | -- | -- | --- |
| *2017* | | | | | | | | | | | | | | | | | | | |
| *Well Depth (Ft. from TOC)* | 32.2 | 34.0 | 34.0 | 22.0 | 23.0 | 17.89[(1)] | 17.8 | 22.7 | 50.1 | *Sealed Sep. '14* | 24.3 | *Sealed Sep. '14* | 28.9 | 29.0 | 32.3 | 32.3 | 24.1 | 32.3 | --- |
| *Purge Rate (gpm)* | 0.5 | 0.5 | 0.5 | -- | -- | -- | -- | 0.5 | 0.6 | | 0.6 | | 0.5 | 0.5 | 0.6 | 0.5 | 0.5 | 0.6 | --- |
| *Pre-Purge DTW (Ft. from TOC)* | 17.6 | 17.6 | 19.0 | -- | -- | -- | -- | 4.1 | 11.6 | | 13.8 | | 10.4 | 20.0 | 19.6 | 14.4 | 13.2 | 16.9 | --- |
| *Post-Purge DTW (Ft. from TOC)* | 22.6 | 28.2 | 24.9 | -- | -- | -- | -- | 5.1 | 34.8 | | 14.1 | | below pump | 22.0 | 19.9 | 15.5 | 14.2 | below pump | --- |
| *Dedicated Pump Condition* | Good | Good | Good | na | na | na | na | Good | Good | | Good | | Good | Good | Good | Good | Good | Good | --- |
| *2018* | | | | | | | | | | | | | | | | | | | |
| *Well Depth (Ft. from TOC)* | 31.2 | 34.0 | 34.0 | -- | -- | -- | *Sealed Apr. '18* | 22.7 | 50.1 | *Sealed Sep. '14* | 24.3 | *Sealed Sep. '14* | 28.9 | 29.0 | 32.3 | 32.3 | 24.1 | 32.3 | --- |
| *Purge Rate (gpm)* | 0.6 | 0.6 | 0.5 | -- | -- | -- | | 0.5 | 0.6 | | 0.5 | | 0.7 | 0.5 | 0.6 | 0.5 | 0.6 | 0.7 | --- |
| *Pre-Purge DTW (Ft. from TOC)* | 13.5 | 16.4 | 17.4 | -- | -- | -- | | 4.9 | 17.8 | | 13.1 | | 10.7 | 20.2 | 18.6 | 17.5 | 11.0 | 15.1 | --- |
| *Post-Purge DTW (Ft. from TOC)* | 19.6 | below pump | 23.7 | -- | -- | -- | | 5.3 | 31.4 | | 13.7 | | below pump | 22.3 | 19.0 | 18.5 | 13.2 | below pump | --- |
| *Dedicated Pump Condition* | Good | Good | Good | na | na | na | | Good | Good | | Good | | Good | Good | Good | Good | Good | Good | --- |
| *2019* | | | | | | | | | | | | | | | | | | | |
| *Well Depth (Ft. from TOC)* | 31.25 | 34.12 | 34.32 | -- | -- | -- | *Sealed Apr. '18* | 22.69 | 50.04 | *Sealed Sep. '14* | 24.59 | *Sealed Sep. '14* | 28.89 | 29.01 | 32.36 | -- | 23.92 | 32.00 | --- |
| *Purge Rate (gpm)* | 0.6 | 0.6 | 0.5 | -- | -- | -- | | 0.7 | 0.6 | | 0.6 | | 0.7 | 0.6 | 0.6 | 0.6 | 0.7 | 0.7 | --- |
| *Pre-Purge DTW (Ft. from TOC)* | 14.69 | 15.09 | 16.87 | -- | -- | -- | | 4.57 | 20.74 | | 12.74 | | 10.61 | 20.09 | 19.36 | 16.00 | 12.24 | 15.39 | --- |
| *Post-Purge DTW (Ft. from TOC)* | 19.45 | below pump | 25.40 | -- | -- | -- | | 4.89 | 32.98 | | 13.28 | | below pump | 21.88 | 21.20 | 16.95 | 13.65 | below pump | --- |
| *Dedicated Pump Condition* | Good | Good | Good | na | na | na | | Good | Good | | Good | | Good | Good | Good | Good | Good | Good | --- |
| *2020* | | | | | | | | | | | | | | | | | | | |
| *Well Depth (Ft. from TOC)* | 31.19 | 34.01 | 33.99 | 22.03 | 27.90 | 22.97 | *Sealed Apr. '18* | 22.74 | -- | *Sealed Sep. '14* | 24.28 | *Sealed Sep. '14* | 28.92 | -- | 32.28 | 32.26 | 24.13 | 32.30 | --- |
| *Purge Rate (gpm)* | 0.5 | 0.8 | 0.5 | -- | -- | -- | | 0.5 | 0.6 | | 0.5 | | 0.7 | -- | 0.6 | 0.6 | 0.7 | 0.6 | --- |
| *Pre-Purge DTW (Ft. from TOC)* | 13.35 | 15.27 | 16.34 | -- | -- | -- | | 4.77 | 19.05 | | 12.31 | | 10.20 | -- | 18.60 | 16.13 | 10.86 | 14.94 | --- |
| *Post-Purge DTW (Ft. from TOC)* | 19.63 | 28.20 | 24.03 | -- | -- | -- | | 5.27 | 30.20 | | 13.06 | | below pump | -- | 19.00 | 16.90 | 12.94 | below pump | --- |
| *Dedicated Pump Condition* | Good | Good | Good | na | na | na | | Good | Good | | Good | | Good | Good | Good | Good | Good | Good | --- |
| *2021* | | | | | | | | | | | | | | | | | | | |
| *Well Depth (Ft. from TOC)* | 31.19 | 34.01 | 33.99 | 22.03 | 27.90 | 22.97 | *Sealed Apr. '18* | 22.74 | 50.06 | *Sealed Sep. '14* | 24.28 | *Sealed Sep. '14* | 28.92 | 29.02 | 32.28 | 32.26 | 24.13 | 32.30 | --- |
| *Purge Rate (gpm)* | 0.5 | 0.6 | 0.5 | -- | -- | -- | | 0.7 | 0.7 | | 0.9 | | 0.6 | 0.7 | 0.5 | 0.6 | 0.6 | 0.6 | --- |
| *Pre-Purge DTW (Ft. from TOC)* | 23.00 | 18.09 | 24.68 | -- | -- | -- | | 7.36 | 26.50 | | 12.90 | | 22.11 | 20.60 | 21.20 | 16.52 | 14.55 | 17.93 | --- |
| *Post-Purge DTW (Ft. from TOC)* | 23.00 | 18.09 | 24.68 | -- | -- | -- | | 7.36 | 26.50 | | 12.90 | | below pump | below pump | 21.20 | 16.52 | 14.55 | below pump | --- |
| *Dedicated Pump Condition* | Good | Good | Good | na | na | na | | Good | Good | | Good | | Good | Good | Good | Good | Good | Good | --- |
| *2022* | | | | | | | | | | | | | | | | | | | |
| *Well Depth (Ft. from TOC)* | 31.19 | 34.01 | 33.99 | 22.03 | 27.90 | 22.97 | *Sealed Apr. '18* | 22.74 | 50.06 | *Sealed Sep. '14* | 24.28 | *Sealed Sep. '14* | 28.92 | 29.02 | 32.28 | 32.26 | 24.13 | 32.30 | --- |
| *Purge Rate (gpm)* | 0.5 | 0.5 | 0.7 | -- | -- | -- | | 0.5 | 0.8 | | 0.7 | | 0.5 | 0.5 | 0.3 | 0.5 | 0.5 | 0.7 | --- |
| *Pre-Purge DTW (Ft. from TOC)* | 23.24 | 17.38 | 17.36 | -- | -- | -- | | 4.91 | 25.58 | | 12.46 | | 23.63 | 23.12 | 19.70 | 14.95 | 13.79 | 15.47 | --- |
| *Post-Purge DTW (Ft. from TOC)* | 23.24 | 17.38 | 27.75 | -- | -- | -- | | 4.91 | 37.10 | | 13.60 | | 23.63 | 23.12 | 20.60 | 14.95 | 14.22 | below pump | --- |
| *Dedicated Pump Condition* | Good | Good | Good | na | na | na | | Good | Good | | Good | | Good | Good | Good | Good | Good | Good | --- |

# Table 4 - Well Condition and Performance

Dickinson Landfill - Spirit Lake, Iowa

Permit No. 30-SDP-01-75P

| Monitoring Well ID | MW-11A | MW-12A | MW-13A | MW-14A | MW-15A | MW-17A | MW-18A | MW-19A | MW-21A | MW-22 | MW-23A | MW-29 | MW-34A | MW-36A | MW-37A | MW-38A | MW-39A | MW-40A | MW-41A |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Constructed Depth (Ft. from TOC)** | ***31.00*** | ***33.82*** | ***34.06*** | ***22.45*** | ***26.67*** | ***22.33*** | ***22.59*** | ***22.16*** | ***49.39*** | ***19.25*** | ***24.90*** | ***55.24*** | ***29.06*** | ***29.13*** | ***36.50*** | ***31.00*** | ***22.00*** | ***32.30*** | ***32.47*** |
| *2023* | | | | | | | | | | | | | | | | | | | |
| *Well Depth (Ft. from TOC)* | 31.22 | 34.01 | 33.99 | 22.03 | 27.90 | 22.97 | *Sealed Apr. '18* | 22.74 | 50.06 | *Sealed Sep. '14* | 24.28 | *Sealed Sep. '14* | 28.92 | 29.02 | 36.65 | 32.41 | 24.13 | 32.15 | --- |
| *Purge Rate (gpm)* | 0.8 | 0.9 | 0.8 | -- | -- | -- | | 1.0 | 1.2 | | 1.0 | | -- | -- | 0.9 | 0.8 | 0.9 | 0.6 | --- |
| *Pre-Purge DTW (Ft. from TOC)* | 22.58 | 19.55 | 23.93 | -- | -- | -- | | 7.22 | 25.30 | | 15.10 | | 27.09 | 27.52 | 22.75 | 17.14 | 17.05 | 20.33 | --- |
| *Post-Purge DTW (Ft. from TOC)* | 25.08 | 19.55 | 23.93 | -- | -- | -- | | 7.22 | 25.30 | | 15.20 | | -- | -- | 23.35 | 17.14 | 17.05 | 20.33 | --- |
| *Dedicated Pump Condition* | Good | Good | Good | na | na | na | | Good | Good | | Good | | Good | Good | Good | Good | Good | Good | --- |
| *2024* | | | | | | | | | | | | | | | | | | | |
| *Well Depth (Ft. from TOC)* | 31.22 | 34.01 | 33.99 | 22.03 | 27.90 | 22.97 | *Sealed Apr. '18* | 22.70 | 49.88 | *Sealed Sep. '14* | 24.2 | *Sealed Sep. '14* | 28.89 | 28.96 | 36.65 | 32.41 | 23.95 | 32.15 | --- |
| *Purge Rate (gpm)* | 0.5 | 0.5 | 0.8 | -- | -- | -- | | 0.7 | 0.8 | | 0.8 | | -- | -- | 0.5 | 0.6 | 0.9 | 1.5 | --- |
| *Pre-Purge DTW (Ft. from TOC)* | 11.64 | 14.60 | 15.28 | -- | -- | -- | | 5.81 | 20.32 | | 11.71 | | 26.94 | 26.90 | 18.77 | 16.24 | 17.01 | 16.40 | --- |
| *Post-Purge DTW (Ft. from TOC)* | 11.64 | 14.60 | 23.60 | -- | -- | -- | | 5.81 | 20.32 | | 13.00 | | -- | -- | 18.77 | 16.24 | 17.01 | 16.40 | --- |
| *Dedicated Pump Condition* | Good | Good | Good | na | na | na | | Good | Good | | Good | | Good | Good | Good | Good | Good | Good | --- |
| *2025* | | | | | | | | | | | | | | | | | | | |
| *Well Depth (Ft. from TOC)* | 31.22 | 34.10 | 33.99 | 21.73 | 26.88 | 27.87 | *Sealed Apr. '18* | 22.70 | 49.88 | *Sealed Sep. '14* | 24.22 | *Sealed Sep. '14* | 28.89 | 28.96 | 36.65 | 32.41 | 23.95 | 32.15 | 32.98* |
| *Purge Rate (gpm)* | 0.8 | 0.6 | 0.8 | -- | -- | -- | | 0.7 | 0.8 | | 0.6 | | -- | 0.6 | 0.8 | 0.6 | 0.5 | 0.6 | 0.2* |
| *Pre-Purge DTW (Ft. from TOC)* | 18.61 | 18.44 | 20.90 | -- | -- | -- | | 5.76 | 30.00 | | 14.7 | | 21.62 | 9.45 | 21.55 | 16.71 | 14.65 | 18.14 | 26.83* |
| *Post-Purge DTW (Ft. from TOC)* | 18.61 | 18.44 | 20.90 | -- | -- | -- | | 5.76 | 35.0 | | 15.60 | | -- | 9.53 | 21.55 | 16.71 | 17.25 | 18.14 | 32.04* |
| *Dedicated Pump Condition* | Good | Good | Good | na | na | na | | Good | Good | | Good | | Good | Good | Good | Good | Good | Good | Good* |

**Notes:**

(1) - Anomalous measurement

(2) - Measured 10/25/2012

(3) - Purge rates have consistently been approximately 0.5 gpm to minimize turbulance for micro-purge sampling of water and potential disturbance of sediment that may be present

* - MW-41A data from 10/14/25 sampling event

DTW - depth to water (ft)

TOC = Top of Well Casing

-- not applicable, not measured

# Table 5 - Groundwater Elevation Summary (2010-Present)

Dickinson Landfill - Spirit Lake, Iowa

Permit No. 30-SDP-01-75P

| Monitoring Well ID | Installation Date | Top of Casing | 04/13/10 | 05/18/10 | 06/21/10 | 07/09/10 | 08/18/10 | 10/18/10 | 11/29/10 | 05/10/11 | 10/19/11 | 04/24/12 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **MW-10** | 4/12/1991 | 1537.26 | sealed | sealed | sealed | sealed | sealed | sealed | sealed | sealed | sealed | sealed |
| **MW-11** | 4/12/1991 | 1537.31 | sealed | sealed | sealed | sealed | sealed | sealed | sealed | sealed | sealed | sealed |
| **MW-11A** | 8/31/1999 | 1532.39 | 1517.75 | NA | NA | NA | NA | 1515.35 | 1513.87 | 1517.78 | 1513.53 | 1508.96 |
| **MW-12** | 4/12/1991 | 1537.45 | | sealed | NA | 1521.05 | NA | NA | sealed | sealed | sealed | sealed |
| **MW-12A** | 9/1/1998 | 1536.52 | 1523.10 | NA | NA | NA | NA | 1518.96 | 1518.93 | 1520.28 | 1516.26 | 1515.36 |
| **MW-13** | 4/12/1991 | 1509.91 | sealed | sealed | sealed | sealed | sealed | sealed | sealed | sealed | sealed | sealed |
| **MW-13A** | 9/1/1998 | 1509.86 | 1492.26 | NA | NA | NA | NA | 1492.07 | 1492.17 | 1493.32 | 1489.05 | 1491.63 |
| **MW-14** | 4/12/1991 | 1483.18 | sealed | sealed | sealed | sealed | sealed | sealed | sealed | sealed | sealed | sealed |
| **MW-14A** | 4/9/1996 | 1483.98 | | NA | NA | NA | NA | NA | 1476.54 | 1476.36 | 1474.07 | 1476.97 |
| **MW-15** | 4/12/1991 | 1474.16 | sealed | sealed | sealed | sealed | sealed | sealed | sealed | sealed | sealed | sealed |
| **MW-15A** | 4/11/1996 | 1476.03 | | NA | NA | NA | NA | NA | 1467.79 | 1467.44 | 1464.55 | 1468.63 |
| **MW-16** | 4/12/1991 | 1474.1 | sealed | sealed | sealed | sealed | sealed | sealed | sealed | sealed | sealed | sealed |
| **MW-17** | 4/12/1991 | 1475.88 | sealed | sealed | sealed | sealed | sealed | sealed | sealed | sealed | sealed | sealed |
| **MW-17A** | 4/10/1996 | 1473.61 | | NA | NA | NA | NA | NA | 1464.57 | 1466.12 | 1460.59 | 1466.63 |
| **MW-18** | 4/12/1991 | 1466.78 | sealed | sealed | sealed | sealed | sealed | sealed | sealed | sealed | sealed | sealed |
| **MW-18A** | 4/9/1996 | 1468.96 | NA | NA | NA | NA | NA | NA | 1462.34 | 1462.73 | 1460.44 | 1462.04 |
| **MW-19** | 4/12/1991 | 1469.65 | sealed | sealed | sealed | sealed | sealed | sealed | sealed | sealed | sealed | sealed |
| **MW-19A** | 4/11/1996 | 1469.58 | 1467.52 | NA | NA | 1465.76 | NA | 1465.11 | 1466.11 | 1466.09 | 1464.57 | 1465.42 |
| **MW-20** | 4/12/1991 | 1470.2 | sealed | sealed | sealed | sealed | sealed | sealed | sealed | sealed | sealed | sealed |
| **MW-21A** | 4/11/1996 | 1499.88 | 1481.79 | NA | NA | NA | NA | 1478.95 | 1477.96 | 1477.11 | 1476.49 | 1472.98 |
| **MW-22** | 4/12/1991 | 1490.63 | 1486.92 | 1484.41 | 1483.08 | NA | 1483.79 | 1482.2 | 1481.60 | 1484.25 | 1481.00 | 1480.53 |
| **MW-23** | 4/12/1991 | 1508.81 | sealed | sealed | sealed | sealed | sealed | sealed | sealed | sealed | sealed | sealed |
| **MW-23A** | 8/31/1999 | 1501.73 | 1495.51 | 1493.02 | 1490.81 | 1491.71 | 1491.44 | 1490.00 | 1489.25 | 1492.37 | 1487.85 | 1487.97 |
| **MW-29** | 6/2/1992 | 1491.03 | 1474.3 | 1474.95 | 1474.68 | NA | 1475.52 | 1474.35 | 1483.82 | 1473.93 | 1473.38 | 1471.4 |
| **MW-30A** | 4/10/1996 | 1494.72 | sealed | sealed | sealed | sealed | sealed | sealed | sealed | sealed | sealed | sealed |
| **MW-32A** | 4/10/1996 | 1480.48 | sealed | sealed | sealed | sealed | sealed | sealed | sealed | sealed | sealed | sealed |
| **MW-34A** | 9/12/2000 | 1486.93 | 1466.03 | 1466.42 | 1466.93 | NA | 1467.72 | 1467.12 | 1466.43 | 1466.44 | 1466.99 | 1465.91 |
| **MW-36A** | 9/11/2000 | 1480.12 | 1459.01 | 1459.87 | 1461.44 | NA | 1460.16 | 1459.48 | 1458.8 | 1458.93 | 1457.92 | 1459.51 |
| **MW-37A** | 8/25/2009 | 1486.35 | 1468.77 | 1468.24 | 1467.4 | 1467.6 | 1466.67 | 1466.54 | 1466.69 | 1467.51 | 1465.5 | 1465.9 |
| **MW-38A** | 8/25/2009 | 1482.26 | 1469.74 | 1469.32 | 1467.55 | 1467.41 | 1467.07 | 1465.51 | 1467.75 | 1467.51 | 1464.97 | 1466.67 |
| **MW-39A** | 5/22/2012 | 1478.60 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| **MW-40A** | 9/18/2014 | 1496.91 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| **MW-41A** | 9/24/2025 | 1483.22 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |

**Notes:**

NA = not available; not measured

NR = not recorded or field sheet inadvertently misplaced

Sealed = well abandoned (sealed)

* = water level below bladder pump

[1] = GW elevation data collected Jan. 13, '22

# Table 5 - Groundwater Elevation Summary (2010-Present)

Dickinson Landfill - Spirit Lake, Iowa

Permit No. 30-SDP-01-75P

| Monitoring Well ID | Installation Date | Top of Casing | 10/25/12 | 05/07/13 | 11/11/13 | 05/13/14 | 11/12/14 | 05/27/15 | 11/18/15 | 06/16/16 | 11/16/16 | 05/30/17 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **MW-10** | 4/12/1991 | 1537.26 | sealed | sealed | sealed | sealed | sealed | sealed | sealed | sealed | sealed | sealed |
| **MW-11** | 4/12/1991 | 1537.31 | sealed | sealed | sealed | sealed | sealed | sealed | sealed | sealed | sealed | sealed |
| **MW-11A** | 8/31/1999 | 1532.39 | 1506.18 | 1503.74 | 1504.83 | 1507.67 | 1502.65 | 1502.83 | 1503.69 | 1519.83 | 1514.85 | 1518.53 |
| **MW-12** | 4/12/1991 | 1537.45 | sealed | sealed | sealed | sealed | sealed | sealed | sealed | sealed | sealed | sealed |
| **MW-12A** | 9/1/1998 | 1536.52 | 1514.19 | 1520.60 | 1514.37 | 1512.52 | 1515.14 | 1517.03 | 1522.42 | 1521.15 | 1519.48 | 1521.21 |
| **MW-13** | 4/12/1991 | 1509.91 | sealed | sealed | sealed | sealed | sealed | sealed | sealed | sealed | sealed | sealed |
| **MW-13A** | 9/1/1998 | 1509.86 | 1485.18 | 1496.95 | 1486.14 | 1490.06 | 1488.50 | 1492.10 | 1496.67 | 1494.94 | 1491.88 | 1493.26 |
| **MW-14** | 4/12/1991 | 1483.18 | sealed | sealed | sealed | sealed | sealed | sealed | sealed | sealed | sealed | sealed |
| **MW-14A** | 4/9/1996 | 1483.98 | 1472.14 | NA | 1472.34 | 1477.16 | 1474.76 | 1477.96 | 1479.08 | 1477.78 | 1477.22 | 1477.25 |
| **MW-15** | 4/12/1991 | 1474.16 | sealed | sealed | sealed | sealed | sealed | sealed | sealed | sealed | sealed | sealed |
| **MW-15A** | 4/11/1996 | 1476.03 | 1462.29 | NA | 1463.60 | 1466.73 | 1465.71 | 1468.51 | 1471.31 | 1469.24 | 1468.02 | 1468.14 |
| **MW-16** | 4/12/1991 | 1474.1 | sealed | sealed | sealed | sealed | sealed | sealed | sealed | sealed | sealed | sealed |
| **MW-17** | 4/12/1991 | 1475.88 | sealed | sealed | sealed | sealed | sealed | sealed | sealed | sealed | sealed | sealed |
| **MW-17A** | 4/10/1996 | 1473.61 | 1459.08 | NA | 1458.32 | 1465.77 | 1462.77 | 1465.72 | 1469.88 | 1467.02 | 1464.90 | 1466.75 |
| **MW-18** | 4/12/1991 | 1466.78 | sealed | sealed | sealed | sealed | sealed | sealed | sealed | sealed | sealed | sealed |
| **MW-18A** | 4/9/1996 | 1468.96 | 1460.23 | NA | 1459.98 | 1461.82 | 1459.48 | 1461.75 | 1463.83 | 1462.56 | 1462.24 | 1462.66 |
| **MW-19** | 4/12/1991 | 1469.65 | sealed | sealed | sealed | sealed | sealed | sealed | sealed | sealed | sealed | sealed |
| **MW-19A** | 4/11/1996 | 1469.58 | 1465.03 | 1466.33 | 1464.76 | 1464.65 | 1463.06 | 1462.94 | 1466.16 | 1464.67 | 1465.21 | 1465.35 |
| **MW-20** | 4/12/1991 | 1470.2 | sealed | sealed | sealed | sealed | sealed | sealed | sealed | sealed | sealed | sealed |
| **MW-21A** | 4/11/1996 | 1499.88 | 1472.38 | 1470.83 | 1472.85 | 1470.45 | 1471.90 | 1470.46 | 1472.00 | 1481.77 | 1478.86 | 1480.72 |
| **MW-22** | 4/12/1991 | 1490.63 | 1476.50 | 1485.87 | 1478.20 | 1479.06 | sealed | sealed | sealed | sealed | sealed | sealed |
| **MW-23** | 4/12/1991 | 1508.81 | sealed | sealed | sealed | sealed | sealed | sealed | sealed | sealed | sealed | sealed |
| **MW-23A** | 8/31/1999 | 1501.73 | 1486.40 | 1489.00 | 1487.14 | 1487.30 | 1488.25 | 1488.01 | 1487.22 | 1488.97 | 1488.40 | 1489.83 |
| **MW-29** | 6/2/1992 | 1491.03 | 1469.61 | 1468.92 | 1468.74 | 1467.89 | sealed | sealed | sealed | sealed | sealed | sealed |
| **MW-30A** | 4/10/1996 | 1494.72 | sealed | sealed | sealed | sealed | sealed | sealed | sealed | sealed | sealed | sealed |
| **MW-32A** | 4/10/1996 | 1480.48 | sealed | sealed | sealed | sealed | sealed | sealed | sealed | sealed | sealed | sealed |
| **MW-34A** | 9/12/2000 | 1486.93 | 1464.74 | 1464.33 | 1462.22 | 1464.70 | 1465.14 | 1465.70 | 1466.17 | 1476.12 | 1467.82 | 1476.71 |
| **MW-36A** | 9/11/2000 | 1480.12 | 1456.87 | 1460.24 | 1456.89 | 1460.40 | 1459.04 | 1461.06 | 1463.58 | 1462.27 | 1459.41 | 1460.25 |
| **MW-37A** | 8/25/2009 | 1486.35 | 1463.25 | 1466.82 | 1463.09 | 1463.61 | 1462.76 | 1464.18 | 1466.85 | 1468.54 | 1466.86 | 1468.62 |
| **MW-38A** | 8/25/2009 | 1482.26 | 1466.13 | 1469.34 | 1465.94 | 1464.77 | 1463.34 | 1464.08 | 1463.63 | 1467.00 | 1468.32 | 1468.31 |
| **MW-39A** | 5/22/2012 | 1478.60 | 1458.65 | 1462.59 | 1461.09 | 1461.31 | 1460.82 | 1462.28 | 1462.92 | 1468.42 | 1465.39 | 1467.27 |
| **MW-40A** | 9/18/2014 | 1496.91 | NA | NA | NA | NA | 1475.74 | 1474.04 | 1476.29 | 1483.01 | 1480.61 | 1484.01 |
| **MW-41A** | 9/24/2025 | 1483.22 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |

**Notes:**

NA = not available; not measured

NR = not recorded or field sheet inadvertently misplaced

Sealed = well abandoned (sealed)

* = water level below bladder pump

[1] = GW elevation data collected Jan. 13, '22

# Table 5 - Groundwater Elevation Summary (2010-Present)

Dickinson Landfill - Spirit Lake, Iowa

Permit No. 30-SDP-01-75P

| Monitoring Well ID | Installation Date | Top of Casing | 11/21/17 | 05/31/18 | 10/31/18 | 05/28/19 | 10/15/19 | 06/03/20 | 10/07/20 | 05/03/21 | 11/09/21 | 05/17/22 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **MW-10** | 4/12/1991 | 1537.26 | sealed | sealed | sealed | sealed | sealed | sealed | sealed | sealed | sealed | sealed |
| **MW-11** | 4/12/1991 | 1537.31 | sealed | sealed | sealed | sealed | sealed | sealed | sealed | sealed | sealed | sealed |
| **MW-11A** | 8/31/1999 | 1532.39 | 1514.81 | 1519.61 | 1518.87 | 1523.60 | 1517.70 | 1519.04 | 1520.90 | 1508.91 | 1509.39 | 1509.15 |
| **MW-12** | 4/12/1991 | 1537.45 | sealed | sealed | sealed | sealed | sealed | sealed | sealed | sealed | sealed | sealed |
| **MW-12A** | 9/1/1998 | 1536.52 | 1518.93 | 1521.39 | 1520.17 | 1525.27 | 1521.43 | 1521.25 | 1516.21 | 1519.56 | 1518.43 | 1519.14 |
| **MW-13** | 4/12/1991 | 1509.91 | sealed | sealed | sealed | sealed | sealed | sealed | sealed | sealed | sealed | sealed |
| **MW-13A** | 9/1/1998 | 1509.86 | 1490.87 | 1493.37 | 1492.45 | 1506.07 | 1492.99 | 1493.52 | 1486.59 | 1490.11 | 1485.18 | 1492.5 |
| **MW-14** | 4/12/1991 | 1483.18 | sealed | sealed | sealed | sealed | sealed | sealed | sealed | sealed | sealed | sealed |
| **MW-14A** | 4/9/1996 | 1483.98 | 1476.82 | 1476.8 | 1477.23 | 1479.00 | 1477.69 | 1477.08 | 1473.31 | NR | 1477.57 | 1477.18 |
| **MW-15** | 4/12/1991 | 1474.16 | sealed | sealed | sealed | sealed | sealed | sealed | sealed | sealed | sealed | sealed |
| **MW-15A** | 4/11/1996 | 1476.03 | 1467.36 | 1467.63 | 1467.84 | 1470.54 | 1468.32 | 1467.93 | 1463.81 | NR | 1468.18 | 1468.68 |
| **MW-16** | 4/12/1991 | 1474.1 | sealed | sealed | sealed | sealed | sealed | sealed | sealed | sealed | sealed | sealed |
| **MW-17** | 4/12/1991 | 1475.88 | sealed | sealed | sealed | sealed | sealed | sealed | sealed | sealed | sealed | sealed |
| **MW-17A** | 4/10/1996 | 1473.61 | 1464.49 | 1466.91 | 1464.50 | 1469.57 | 1467.12 | 1467.43 | 1459.05 | NR | 1465.77 | 1467.10 |
| **MW-18** | 4/12/1991 | 1466.78 | sealed | sealed | sealed | sealed | sealed | sealed | sealed | sealed | sealed | sealed |
| **MW-18A** | 4/9/1996 | 1468.96 | 1462.32 | sealed | sealed | sealed | sealed | sealed | sealed | sealed | sealed | sealed |
| **MW-19** | 4/12/1991 | 1469.65 | sealed | sealed | sealed | sealed | sealed | sealed | sealed | sealed | sealed | sealed |
| **MW-19A** | 4/11/1996 | 1469.58 | 1465.48 | 1465.28 | 1464.65 | 1465.79 | 1465.01 | 1464.81 | 1464.49 | 1463.70 | 1462.22 | 1464.67 |
| **MW-20** | 4/12/1991 | 1470.2 | sealed | sealed | sealed | sealed | sealed | sealed | sealed | sealed | sealed | sealed |
| **MW-21A** | 4/11/1996 | 1499.88 | 1488.24 | 1482.60 | 1482.08 | 1481.92 | 1479.14 | 1480.83 | 1475.55 | 1473.18 | 1473.38 | 1474.30 |
| **MW-22** | 4/12/1991 | 1490.63 | sealed | sealed | sealed | sealed | sealed | sealed | sealed | sealed | sealed | sealed |
| **MW-23** | 4/12/1991 | 1508.81 | sealed | sealed | sealed | sealed | sealed | sealed | sealed | sealed | sealed | sealed |
| **MW-23A** | 8/31/1999 | 1501.73 | 1487.94 | 1489.52 | 1488.61 | 1491.71 | 1488.99 | 1489.42 | 1486.58 | 1488.93 | 1488.83 | 1489.27 |
| **MW-29** | 6/2/1992 | 1491.03 | sealed | sealed | sealed | sealed | sealed | sealed | sealed | sealed | sealed | sealed |
| **MW-30A** | 4/10/1996 | 1494.72 | sealed | sealed | sealed | sealed | sealed | sealed | sealed | sealed | sealed | sealed |
| **MW-32A** | 4/10/1996 | 1480.48 | sealed | sealed | sealed | sealed | sealed | sealed | sealed | sealed | sealed | sealed |
| **MW-34A** | 9/12/2000 | 1486.93 | 1476.58 | 1476.49 | 1476.26 | 1478.71 | 1476.32 | 1476.73 | Inaccessible | 1463.19 | [1] 1464.82 | 1463.30 |
| **MW-36A** | 9/11/2000 | 1480.12 | 1460.13 | 1460.10 | 1459.94 | Inaccessible | 1460.03 | Inaccessible | Inaccessible | 1456.90 | [1] 1459.46 | 1457.00 |
| **MW-37A** | 8/25/2009 | 1486.35 | 1466.79 | 1468.10 | 1467.73 | 1469.17 | 1466.99 | 1467.75 | 1464.33 | 1465.30 | 1465.15 | 1466.65 |
| **MW-38A** | 8/25/2009 | 1482.26 | 1467.82 | 1467.44 | 1464.76 | 1467.46 | 1466.26 | 1466.13 | 1464.92 | 1465.94 | 1465.74 | 1467.31 |
| **MW-39A** | 5/22/2012 | 1478.60 | 1465.42 | 1468.19 | 1467.59 | 1470.73 | 1466.36 | 1467.74 | 1467.42 | 1463.80 | 1464.05 | 1464.81 |
| **MW-40A** | 9/18/2014 | 1496.91 | 1480.01 | 1483.71 | 1481.81 | 1488.05 | 1481.52 | 1481.97 | 1481.55 | 1481.10 | 1478.98 | 1481.44 |
| **MW-41A** | 9/24/2025 | 1483.22 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |

**Notes:**

NA = not available; not measured

NR = not recorded or field sheet inadvertently misplaced

Sealed = well abandoned (sealed)

* = water level below bladder pump

[1] = GW elevation data collected Jan. 13, '22

# Table 5 - Groundwater Elevation Summary (2010-Present)

Dickinson Landfill - Spirit Lake, Iowa

Permit No. 30-SDP-01-75P

| Monitoring Well ID | Installation Date | Top of Casing | 10/17/22 | 05/22/23 | 10/05/23 | 05/20/24 | 10/02/24 | 05/12/25 | 10/14/25 | 11/24/25 |
|---|---|---|---|---|---|---|---|---|---|---|
| **MW-10** | 4/12/1991 | 1537.26 | sealed | sealed | sealed | sealed | sealed | sealed | sealed | sealed |
| **MW-11** | 4/12/1991 | 1537.31 | sealed | sealed | sealed | sealed | sealed | sealed | sealed | sealed |
| **MW-11A** | 8/31/1999 | 1532.39 | 1509.01 | 1517.28 | 1509.81 | 1520.75 | 1520.76 | 1513.29 | 1513.78 | NA |
| **MW-12** | 4/12/1991 | 1537.45 | sealed | sealed | sealed | sealed | sealed | sealed | sealed | sealed |
| **MW-12A** | 9/1/1998 | 1536.52 | 1515.98 | 1521.99 | 1516.97 | 1521.92 | 1518.06 | 1519.99 | 1518.08 | NA |
| **MW-13** | 4/12/1991 | 1509.91 | sealed | sealed | sealed | sealed | sealed | sealed | sealed | sealed |
| **MW-13A** | 9/1/1998 | 1509.86 | 1486.84 | 1494.24 | 1485.93 | 1494.58 | 1488.87 | 1493.94 | 1488.99 | NA |
| **MW-14** | 4/12/1991 | 1483.18 | sealed | sealed | sealed | sealed | sealed | sealed | sealed | sealed |
| **MW-14A** | 4/9/1996 | 1483.98 | 1473.64 | 1477.90 | 1472.81 | 1477.49 | 1474.47 | 1476.35 | 1475.13 | NA |
| **MW-15** | 4/12/1991 | 1474.16 | sealed | sealed | sealed | sealed | sealed | sealed | sealed | sealed |
| **MW-15A** | 4/11/1996 | 1476.03 | 1464.36 | 1469.76 | 1463.68 | 1468.53 | 1465.13 | 1467.96 | 1465.5 | NA |
| **MW-16** | 4/12/1991 | 1474.1 | sealed | sealed | sealed | sealed | sealed | sealed | sealed | sealed |
| **MW-17** | 4/12/1991 | 1475.88 | sealed | sealed | sealed | sealed | sealed | sealed | sealed | sealed |
| **MW-17A** | 4/10/1996 | 1473.61 | 1460.12 | 1467.72 | 1459.79 | 1467.50 | 1461.83 | 1465.63 | 1462.24 | NA |
| **MW-18** | 4/12/1991 | 1466.78 | sealed | sealed | sealed | sealed | sealed | sealed | sealed | sealed |
| **MW-18A** | 4/9/1996 | 1468.96 | sealed | sealed | sealed | sealed | sealed | sealed | sealed | sealed |
| **MW-19** | 4/12/1991 | 1469.65 | sealed | sealed | sealed | sealed | sealed | sealed | sealed | sealed |
| **MW-19A** | 4/11/1996 | 1469.58 | 1462.39 | 1464.94 | 1462.36 | 1463.77 | 1461.78 | 1465.45 | 1463.82 | NA |
| **MW-20** | 4/12/1991 | 1470.2 | sealed | sealed | sealed | sealed | sealed | sealed | sealed | sealed |
| **MW-21A** | 4/11/1996 | 1499.88 | 1474.35 | 1477.88 | 1474.50 | 1479.56 | 1477.33 | 1474.70 | 1474.60 | NA |
| **MW-22** | 4/12/1991 | 1490.63 | sealed | sealed | sealed | sealed | sealed | sealed | sealed | sealed |
| **MW-23** | 4/12/1991 | 1508.81 | sealed | sealed | sealed | sealed | sealed | sealed | sealed | sealed |
| **MW-23A** | 8/31/1999 | 1501.73 | 1486.78 | 1489.80 | 1488.63 | 1490.02 | 1487.18 | 1489.51 | 1487.69 | NA |
| **MW-29** | 6/2/1992 | 1491.03 | sealed | sealed | sealed | sealed | sealed | sealed | sealed | sealed |
| **MW-30A** | 4/10/1996 | 1494.72 | sealed | sealed | sealed | sealed | sealed | sealed | sealed | sealed |
| **MW-32A** | 4/10/1996 | 1480.48 | sealed | sealed | sealed | sealed | sealed | sealed | sealed | sealed |
| **MW-34A** | 9/12/2000 | 1486.93 | 1462.86 | 1464.03 | *1459.84 | 1459.99 | Inaccessible | 1465.45 | 1465.31 | 1465.28 |
| **MW-36A** | 9/11/2000 | 1480.12 | 1456.17 | 1457.41 | *1452.60 | 1453.22 | 1452.72 | 1459.68 | sealed | sealed |
| **MW-37A** | 8/25/2009 | 1486.35 | 1463.74 | 1466.78 | 1463.60 | 1467.58 | 1465.02 | 1465.97 | 1464.80 | NA |
| **MW-38A** | 8/25/2009 | 1482.26 | 1464.85 | 1466.73 | 1465.16 | 1466.02 | 1464.17 | 1469.48 | 1465.55 | NA |
| **MW-39A** | 5/22/2012 | 1478.60 | 1462.55 | 1465.95 | 1461.55 | 1461.59 | 1464.06 | 1464.72 | 1463.95 | NA |
| **MW-40A** | 9/18/2014 | 1496.91 | 1480.34 | 1484.40 | 1476.58 | 1480.51 | 1478.11 | 1478.29 | 1478.77 | NA |
| **MW-41A** | 9/24/2025 | 1483.22 | -- | -- | -- | -- | -- | -- | 1453.77 | 1459.07 |

**Notes:**

NA = not available; not measured

NR = not recorded or field sheet inadvertently misplaced

Sealed = well abandoned (sealed)

* = water level below bladder pump

[1] = GW elevation data collected Jan. 13, '22

# Table 6 - Semi-Annual Detection Monitoring Metals Results (2008-Present)

Dickinson Landifll - Spirit Lake, Iowa
Permit No. 30-SDP-01-75P

| Detection Parameters (IDNR) [1] | Date | RL | MCL [2] | Units | MW-11A | MW-12A | MW-13A | MW-18A | MW-19A | MW-21A | MW-22 | MW-23A | MW-29 | MW-34A | MW-36A | MW-37A | MW-38A | MW-39A | MW-40A | MW-41A | GU-B/C | GW Holding Pond |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Antimony | 04/29/08 | 6 | 6 | µg/L | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND | NT |
| | 05/22/08 | | (6) | | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND | NT |
| | 06/18/08 | | | | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND | NT |
| | 08/13/08 | | | | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND | NT |
| | 09/24/08 | | | | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND | NT |
| | 04/27/09 | | | | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | ND | NT |
| | 10/26/09 | | | | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | NT |
| | 11/23/09 | | | | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND | ND | NT | NT | NT | NT | NT |
| | 12/17/09 | | | | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | NT |
| | 04/13/10 | | | | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | NT |
| | 05/18/10 | | | | NT | NT | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT |
| | 06/21/10 | | | | NT | NT | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT |
| | 07/09/10 | | | | NT | ND | NT | NT | ND | NT | NT | ND | NT | NT | NT | ND | ND | NT | NT | NT | ND | NT |
| | 08/18/10 | | | | NT | NT | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT |
| | 10/18/10 | | | | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | NT |
| | 05/10/11 | | | | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | NT |
| | 10/19/11 | | | | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | Dry | NT |
| | 04/24/12 | | | | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | NT |
| | 08/06/12 | | | | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND | NT | NT | NT | NT | NT |
| | 10/25/12* | | | | ND | ND | ND | NT | ND | ND | ND | dry | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND* |
| | 05/07/13 | | | | NT | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | ND |
| | 11/11/13 | | | | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | ND |
| | 05/13/14 | | | | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | ND |
| | 11/12/14 | | | | ND | ND | ND | NT | ND | ND | Sealed | ND | Sealed | ND | ND | frozen | frozen | ND | ND | NT | NT | ND |
| | 03/18/15 | | | | NT | NT | NT | NT | NT | NT | Sealed | NT | Sealed | NT | NT | NT | NT | ND | NT | NT | NT | NT |
| | 05/27/15 | | | | NT | ND | ND | NT | ND | ND | Sealed | ND | Sealed | ND | ND | ND | ND | ND | ND | NT | NT | ND |
| | 08/20/15 | | | | NT | NT | NT | NT | NT | NT | Sealed | NT | Sealed | NT | NT | NT | NT | ND | NT | NT | NT | NT |
| | 11/18/15 | | | | ND | ND | ND | NT | ND | ND | Sealed | ND | Sealed | ND | ND | ND | ND | ND | NT | NT | NT | ND |
| | 04/25/16 | | | | NT | NT | NT | NT | NT | NT | Sealed | NT | Sealed | NT | NT | NT | NT | ND | NT | NT | NT | NT |
| | 06/16/16 | | | | ND | ND | ND | NT | ND | ND | Sealed | ND | Sealed | ND | ND | ND | ND | ND | NT | NT | NT | ND |
| | 08/17/16 | | | | NT | NT | NT | NT | NT | NT | Sealed | NT | Sealed | NT | NT | NT | NT | ND | NT | NT | NT | NT |
| | 11/16/16 | | | | ND | ND | ND | NT | ND | ND | Sealed | ND | Sealed | ND | ND | ND | ND | ND | NT | NT | NT | ND |
| | 05/30/17 | | | | ND | ND | ND | NT | ND | ND | Sealed | ND | Sealed | ND | ND | ND | ND | ND | NT | NT | NT | ND |
| | 11/21/17 | | | | ND | ND | ND | NT | ND | ND | Sealed | ND | Sealed | ND | ND | ND | ND | ND | NT | NT | NT | ND |
| | 05/31/18 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | ND | ND | ND | ND | ND | NT | NT | NT | ND |
| | 10/31/18 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | ND | ND | ND | ND | ND | NT | NT | NT | ND |
| | 05/28/19 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | ND | Inaccessible | ND | ND | ND | NT | NT | NT | ND |
| | 10/15/19 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | ND | ND | ND | ND | ND | NT | NT | NT | ND |
| | 06/03/20 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | ND | Inaccessible | ND | ND | ND | NT | NT | NT | ND |
| | 10/07/20 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | Inaccessible | Inaccessible | ND | ND | ND | NT | NT | NT | ND |
| | 05/03/21 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | ND | ND | ND | ND | ND | NT | NT | NT | ND |
| | 11/09/21 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | Inaccessible | Inaccessible | ND | ND | ND | NT | NT | NT | ND |
| | 01/13/22 | | | | NT | NT | NT | Sealed | NT | NT | Sealed | NT | Sealed | ND | ND | NT | NT | NT | NT | NT | NT | NT |
| | 05/17/22 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | ND | ND | ND | ND | ND | NT | NT | NT | ND |
| | 10/17/22 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | ND | ND | ND | ND | ND | NT | NT | NT | ND |
| | 05/22/23** | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | ND | ND | ND | ND | ND | NT | NT | NT | ND |
| | 10/5/23*** | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | NT | NT | ND | ND | ND | NT | NT | NT | ND |
| | 05/20/24 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | NT | NT | ND | ND | ND | ND | NT | NT | ND |
| | 10/02/24 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | Inaccessible | NT | ND | ND | ND | ND | NT | NT | ND |
| | 05/12/25 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | ND | ND | ND | ND | ND | ND | NT | NT | ND |
| | 10/14/25 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | Inaccessible | Sealed | ND | ND | ND | ND | ND | NT | ND |
| | 11/24/25 | | | | NT | NT | NT | Sealed | NT | NT | Sealed | NT | Sealed | ND | Sealed | NT | NT | NT | NT | ND | NT | NT |
| | 12/22/25 | | | | NT | NT | NT | Sealed | NT | NT | Sealed | NT | Sealed | NT | Sealed | NT | NT | NT | NT | ND | NT | NT |
| Arsenic | 04/29/08 | 0.01 | 0.01 | mg/L | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT |
| | 05/22/08 | | (0.01) | | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT |
| | 06/18/08 | | | | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT |
| | 08/13/08 | | | | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND | NT |
| | 09/24/08 | | | | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND | NT |
| | 04/27/09 | | | | ND | ND | ND | NT | ND | ND | ND | ND | 0.0239 | ND | ND | NT | NT | NT | NT | NT | ND | NT |
| | 10/26/09 | | | | ND | ND | ND | NT | ND | ND | ND | ND | 0.0156 | ND | ND | ND | ND | NT | NT | NT | ND | NT |
| | 11/23/09 | | | | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND | ND | NT | NT | NT | NT | NT |
| | 12/17/09 | | | | ND | ND | ND | NT | ND | ND | ND | ND | 0.0153 | ND | ND | ND | ND | NT | NT | NT | ND | NT |
| | 04/13/10 | | | | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | NT |
| | 05/18/10 | | | | NT | NT | NT | NT | NT | NT | ND | ND | 0.013 | ND | ND | ND | ND | NT | NT | NT | NT | NT |
| | 06/21/10 | | | | NT | NT | NT | NT | NT | NT | ND | ND | 0.0277 | ND | ND | ND | ND | NT | NT | NT | NT | NT |
| | 07/09/10 | | | | NT | ND | NT | NT | ND | NT | NT | ND | NT | NT | NT | ND | ND | NT | NT | NT | ND | NT |
| | 08/18/10 | | | | NT | NT | NT | NT | NT | NT | ND | ND | 0.0224 | ND | ND | ND | ND | NT | NT | NT | NT | NT |
| | 10/18/10 | | | | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | NT |
| | 05/10/11 | | | | ND | ND | ND | NT | ND | ND | ND | ND | 0.023 (0.023) | ND | ND | ND | ND | NT | NT | NT | ND | NT |
| | 10/19/11 | | | | ND | ND | ND | NT | ND | ND | ND | ND | 0.017 | ND | ND | ND | ND | NT | NT | NT | Dry | NT |
| | 04/24/12 | | | | ND | ND | ND | NT | ND | ND | ND | ND | 0.056 | ND | ND | ND | ND | NT | NT | NT | ND | NT |
| | 08/06/12 | | | | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND | NT | NT | NT | NT |
| | 10/25/12* | | | | ND | ND | ND | NT | ND | ND | ND | dry | 0.02 | ND | ND | ND | ND | ND | NT | NT | NT | ND* |
| | 05/07/13 | | | | NT | ND | ND | NT | ND | ND | ND | ND | 0.042 | ND | ND | ND | ND | ND | NT | NT | NT | ND |
| | 11/11/13 | | | | ND | ND | ND | NT | ND | ND | ND | 0.037 | 0.018 | ND | ND | ND | ND | ND | NT | NT | NT | ND |
| | 05/13/14 | | | | ND | ND | ND | ND | ND | ND | ND | ND | 0.032 | ND | ND | ND | ND | ND | NT | NT | NT | ND |
| | 11/12/14 | | | | ND | ND | ND | NT | ND | ND | Sealed | ND | Sealed | ND | ND | frozen | frozen | ND | ND | NT | NT | ND |
| | 03/18/15 | | | | NT | NT | NT | NT | NT | NT | Sealed | NT | Sealed | NT | NT | NT | NT | ND | NT | NT | NT | NT |
| | 05/27/15 | | | | NT | ND | ND | NT | ND | ND | Sealed | ND | Sealed | ND | ND | 0.012 | ND | ND | ND | NT | NT | ND |
| | 08/20/15 | | | | NT | NT | NT | NT | NT | NT | Sealed | NT | Sealed | NT | NT | NT | NT | ND | NT | NT | NT | NT |
| | 11/18/15 | | | | ND | ND | ND | NT | ND | ND | Sealed | ND | Sealed | ND | ND | ND | ND | ND | NT | NT | NT | ND |
| | 04/25/16 | | | | NT | NT | NT | NT | NT | NT | Sealed | NT | Sealed | NT | NT | NT | NT | ND | NT | NT | NT | NT |
| | 06/16/16 | | | | ND | ND | ND | NT | ND | ND | Sealed | ND | Sealed | ND | ND | 0.016 | ND | ND | NT | NT | NT | ND |
| | 08/17/16 | | | | NT | NT | NT | NT | NT | NT | Sealed | NT | Sealed | NT | NT | NT | NT | ND | NT | NT | NT | NT |
| | 11/16/16 | | | | ND | ND | ND | NT | ND | ND | Sealed | ND | Sealed | ND | ND | 0.019 | ND | ND | NT | NT | NT | ND |
| | 05/30/17 | | | | ND | ND | ND | NT | ND | ND | Sealed | ND | Sealed | ND | ND | 0.017 | ND | ND | NT | NT | NT | ND |
| | 11/21/17 | | | | ND | ND | ND | NT | ND | ND | Sealed | ND | Sealed | ND | ND | 0.034 | ND | ND | NT | NT | NT | ND |
| | 05/31/18 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | ND | ND | 0.029 | ND | ND | NT | NT | NT | ND |
| | 10/31/18 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | ND | ND | 0.040 | ND | ND | NT | NT | NT | ND |
| | 05/28/19 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | ND | Inaccessible | 0.035 | ND | ND | NT | NT | NT | ND |
| | 10/15/19 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | ND | ND | 0.033 | ND | ND | NT | NT | NT | ND |
| | 06/03/20 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | ND | Inaccessible | 0.0446 | ND | ND | ND | NT | NT | ND |
| | 10/07/20 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | Inaccessible | Inaccessible | 0.0364 | ND | ND | 0.012 | NT | NT | ND |
| | 12/17/20 | | | | NT | NT | NT | Sealed | NT | NT | Sealed | NT | Sealed | NT | NT | NT | NT | NT | ND | NT | NT | NT |

# Table 6 - Semi-Annual Detection Monitoring Metals Results (2008-Present)

Dickinson Landifll - Spirit Lake, Iowa
Permit No. 30-SDP-01-75P

| Detection Parameters (IDNR) [1] | Date | RL | MCL [2] | Units | MW-11A | MW-12A | MW-13A | MW-18A | MW-19A | MW-21A | MW-22 | MW-23A | MW-29 | MW-34A | MW-36A | MW-37A | MW-38A | MW-39A | MW-40A | MW-41A | GU-B/C | GW Holding Pond |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 05/03/21 | 0.01 | 0.01 | mg/L | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | ND | ND | 0.0562 | ND | ND | ND | NT | NT | ND |
| | 5/3/21 (2) | | (0.01) | | NT | NT | NT | Sealed | NT | NT | Sealed | NT | Sealed | NT | NT | 0.0456 | NT | NT | NT | NT | NT | NT |
| | 11/09/21 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | Inaccessible | Inaccessible | 0.0537 | ND | ND | ND | NT | NT | ND |
| | 01/13/22 | | | | NT | NT | NT | Sealed | NT | NT | Sealed | NT | Sealed | ND | ND | NT | NT | NT | NT | NT | NT | NT |
| | 05/17/22 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | ND | ND | 0.0461 | ND | ND | ND | NT | NT | 0.0104 |
| | 7/28/22 (01) | | | | NT | NT | NT | Sealed | NT | NT | Sealed | NT | Sealed | NT | NT | NT | NT | NT | NT | NT | NT | ND |
| | 7/28/22 (02) | | | | NT | NT | NT | Sealed | NT | NT | Sealed | NT | Sealed | NT | NT | NT | NT | NT | NT | NT | NT | ND |
| | 10/17/22 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | ND | ND | 0.0377 | ND | ND | ND | NT | NT | ND |
| | 05/22/23** | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | ND | ND | 0.0358 | ND | ND | ND | NT | NT | ND |
| | 10/5/23*** | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | NT | NT | 0.0467 | ND | ND | ND | NT | NT | 0.0104 |
| | 11/27/23 | | | | NT | NT | NT | Sealed | NT | NT | Sealed | NT | Sealed | NT | NT | NT | NT | NT | NT | NT | NT | ND |
| | 05/20/24 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | NT | NT | 0.0447 | ND | ND | ND | NT | NT | 0.0213 |
| | 07/18/24 | | | | NT | NT | NT | Sealed | NT | NT | Sealed | NT | Sealed | NT | NT | NT | NT | NT | NT | NT | NT | 0.0356 |
| | 10/02/24 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | Inaccessible | NT | 0.0623 | ND | ND | ND | NT | NT | 0.014 |
| | 11/12/24 | | | | NT | NT | NT | Sealed | NT | NT | Sealed | NT | Sealed | NT | NT | NT | NT | NT | NT | NT | NT | ND |
| | 05/12/25 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | 0.0108 | Sealed | ND | ND | 0.0534 | ND | ND | ND | NT | NT | ND |
| | 07/09/25 | | | | NT | NT | NT | Sealed | NT | NT | Sealed | 0.0148 | Sealed | NT | NT | NT | NT | NT | NT | NT | NT | NT |
| | 10/14/25 | | | | ND | ND | ND | ND | ND | ND | Sealed | 0.0122 | Sealed | Inaccessible | Sealed | 0.0556 | ND | ND | ND | ND | ND | 0.0109 |
| | 11/24/25 | | | | NT | NT | NT | NT | NT | NT | Sealed | NT | Sealed | ND | Sealed | NT | NT | NT | NT | ND | NT | NT |
| | 12/22/25 | | | | NT | NT | NT | NT | NT | NT | Sealed | NT | Sealed | NT | Sealed | NT | NT | NT | NT | ND | NT | NT |
| Barium | 04/29/08 | 0.02 | 2 | mg/L | 0.19 | 0.21 | 0.17 | 0.17 | 0.18 | 0.22 | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT |
| | 05/22/08 | | (2) | | 0.19 | 0.21 | 0.16 | 0.12 | 0.15 | 0.21 | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT |
| | 06/18/08 | | | | 0.19 | 0.2 | 0.17 | 0.12 | 0.15 | 0.21 | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT |
| | 08/13/08 | | | | 0.19 | 0.2 | 0.17 | 0.12 | 0.14 | 0.23 | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | 0.092 | NT |
| | 09/24/08 | | | | 0.2 | 0.24 | 0.15 | 0.13 | 0.15 | 0.23 | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | 0.091 | NT |
| | 04/27/09 | | | | 0.183 | 0.23 | 0.183 | NT | 0.137 | 0.181 | 0.0415 | 0.125 | 0.270 | 0.0394 | 0.0415 | NT | NT | NT | NT | NT | 0.124 | NT |
| | 10/26/09 | | | | 0.192 | 0.234 (0.248) | 0.195 | NT | 0.131 (0.135) | 0.235 | 0.174 | 0.147 | 0.226 | 0.0406 | 0.0428 | 0.146 | 0.195 | NT | NT | NT | 0.125 | NT |
| | 11/23/09 | | | | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | 0.146 | 0.215 | NT | NT | NT | NT | NT |
| | 12/17/09 | | | | 0.195 | 0.187 (0.236) | 0.205 | NT | 0.135 (0.133) | 0.231 | 0.178 | 0.143 | 0.3 | 0.0392 | 0.0435 | 0.148 | 0.25 | NT | NT | NT | 0.149 | NT |
| | 04/13/10 | | | | 0.178 | 0.215 | 0.163 | NT | 0.129 | 0.190 | 0.243 | 0.123 | 0.230 | 0.0330 | 0.0380 | 0.108 | 0.185 | NT | NT | NT | 0.165 | NT |
| | 05/18/10 | | | | NT | NT | NT | NT | NT | NT | 0.265 | 0.128 | 0.230 | 0.0346 | 0.0367 | 0.115 | 0.186 | NT | NT | NT | NT | NT |
| | 06/21/10 | | | | NT | NT | NT | NT | NT | NT | 0.27 | 0.146 | 0.283 | 0.0375 | 0.0394 | 0.128 | 0.192 | NT | NT | NT | NT | NT |
| | 07/09/10 | | | | NT | 0.213 | NT | NT | 0.154 | NT | NT | 0.15 | NT | NT | NT | 0.126 | 0.185 | NT | NT | NT | 0.223 | NT |
| | 08/18/10 | | | | NT | NT | NT | NT | NT | NT | 0.266 | 0.16 | 0.265 | 0.0354 | 0.0393 | 0.134 | 0.213 | NT | NT | NT | NT | NT |
| | 10/18/10 | | | | 0.209 | 0.186 | 0.201 | NT | 0.144 | 0.213 | 0.256 | 0.166 | 0.264 | 0.0399 | 0.0442 | 0.165 | 0.224 | NT | NT | NT | 0.184 | NT |
| | 05/10/11 | | | | 0.2 | 0.22 (0.23) | 0.23 | NT | 0.15 (0.15) | 0.24 | 0.25 (0.27) | 0.12 (0.020) | 0.27 (0.28) | 0.035 | 0.039 | 0.19 (0.19) | 0.2 (0.2) | NT | NT | NT | 0.15 (0.15) | NT |
| | 10/19/11 | | | | 0.22 | 0.19 | 0.22 | NT | 0.17 | 0.26 | 0.27 | 0.19 | 0.23 | 0.05 | 0.042 | 0.24 | 0.2 | NT | NT | NT | Dry | NT |
| | 04/24/12 | | | | 0.2 | 0.22 | 0.22 | NT | 0.15 | 0.22 | 0.23 | 0.17 | 0.32 | 0.038 | 0.037 | 0.24 | 0.21 | NT | NT | NT | 0.15 | NT |
| | 08/06/12 | | | | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | 0.29 | NT | NT | NT | NT |
| | 10/25/12* | | | | 0.37 | 0.23 | 0.19 | NT | 0.15 | 0.22 | 0.26 | dry | 0.24 | 0.036 | 0.043 | 0.29 | 0.22 | 0.49 | NT | NT | NT | 0.17* |
| | 05/07/13 | | | | NT | 0.19 | 0.27 | NT | 0.13 | 0.22 | 0.18 | 0.17 | 0.29 | 0.033 | 0.037 | 0.29 | 0.23 | 0.3 | NT | NT | NT | 0.13 |
| | 11/11/13 | | | | 0.2 | 0.24 | 0.18 | NT | 0.13 | 0.22 | 0.15 | 0.98 | 0.26 | 0.038 | 0.041 | 0.037 | 0.024 | 0.31 | NT | NT | NT | 0.18 |
| | 05/13/14 | | | | ND | 0.22 | ND | ND | 0.17 | 0.22 | 0.13 | 0.15 | 0.27 | 0.03 | 0.033 | 0.32 | 0.22 | 0.27 | NT | NT | NT | 0.14 |
| | 11/12/14 | | | | 0.22 | 0.25 | 0.27 | NT | 0.17 | 0.27 | Sealed | 0.18 | Sealed | 0.037 | 0.046 | frozen | frozen | 0.33 | 0.25 | NT | NT | 0.21 |
| | 03/18/15 | | | | NT | NT | NT | NT | NT | NT | Sealed | NT | Sealed | NT | NT | NT | NT | NT | 0.24 | NT | NT | NT |
| | 05/27/15 | | | | NT | 0.21 | 0.21 | NT | 0.12 | 0.19 | Sealed | 0.23 | Sealed | 0.031 | 0.036 | 0.35 | 0.21 | 0.29 | 0.19 | NT | NT | 0.19 |
| | 08/20/15 | | | | NT | NT | NT | NT | NT | NT | Sealed | NT | Sealed | NT | NT | NT | NT | NT | 0.19 | NT | NT | NT |
| | 11/18/15 | | | | 0.28 | 0.21 | 0.25 | NT | 0.1 | 0.24 | Sealed | 0.27 | Sealed | 0.031 | 0.04 | 0.4 | 0.2 | 0.31 | 0.25 | NT | NT | 0.047 |
| | 04/25/16 | | | | NT | NT | NT | NT | NT | NT | Sealed | NT | Sealed | NT | NT | NT | NT | NT | 0.29 | NT | NT | NT |
| | 06/16/16 | | | | 0.17 | 0.26 | 0.23 | NT | 0.17 | 0.24 | Sealed | 0.29 | Sealed | 0.037 | 0.024 | 0.32 | 0.2 | 0.25 | 0.029 | NT | NT | 0.041 |
| | 08/17/16 | | | | NT | NT | NT | NT | NT | NT | Sealed | NT | Sealed | NT | NT | NT | NT | NT | 0.31 | NT | NT | NT |
| | 11/16/16 | | | | 0.15 | 0.23 | 0.29 | NT | 0.22 | 0.25 | Sealed | 0.29 | Sealed | 0.039 | 0.031 | 0.37 | 0.22 | 0.34 | 0.29 | NT | NT | 0.11 |
| | 05/30/17 | | | | 0.18 | 0.26 | 0.3 | NT | 0.17 | 0.25 | Sealed | 0.32 | Sealed | 0.043 | 0.03 | 0.45 | 0.21 | 0.26 | 0.3 | NT | NT | 0.09 |
| | 11/21/17 | | | | 0.22 | 0.25 | 0.27 | NT | 0.16 | 0.3 | Sealed | 0.35 | Sealed | 0.31 | 0.32 | 0.54 | 0.23 | 0.32 | 0.34 | NT | NT | 0.15 |
| | 05/31/18 | | | | 0.2 | 0.25 | 0.25 | Sealed | 0.15 | 0.26 | Sealed | 0.66 | Sealed | 0.22 | 0.29 | 0.54 | 0.2 | 0.22 | 0.29 | NT | NT | 0.093 |
| | 10/31/18 | | | | 0.21 | 0.24 | 0.34 | Sealed | 0.16 | 0.27 | Sealed | 0.46 | Sealed | 0.15 | 0.30 | 0.64 | 0.21 | 0.28 | 0.3 | NT | NT | 0.12 |
| | 05/28/19 | | | | 0.24 | 0.29 | 0.32 | Sealed | 0.16 | 0.31 | Sealed | 1.3 | Sealed | 0.19 | Inaccessible | 0.65 | 0.24 | 0.2 | 0.29 | NT | NT | 0.14 |
| | 10/15/19 | | | | 0.27 | 0.24 | 0.31 | Sealed | 0.17 | 0.31 | Sealed | 0.62 | Sealed | 0.18 | 0.29 | 0.68 | 0.23 | 0.27 | 0.27 | NT | NT | 0.15 |
| | 06/03/20 | | | | 0.261 | 0.24 | 0.335 | Sealed | 0.153 | 0.286 | Sealed | 1.02 | Sealed | 0.196 | Inaccessible | 0.718 | 0.242 | 0.192 | 0.293 | NT | NT | 0.0717 |
| | 10/07/20 | | | | 0.234 | 0.259 | 0.304 | Sealed | 0.146 | 0.294 | Sealed | 0.478 | Sealed | Inaccessible | Inaccessible | 0.756 | 0.255 | 0.267 | 0.305 | NT | NT | 0.166 |
| | 05/03/21 | | | | 0.212 | 0.266 | 0.344 | Sealed | 0.133 | 0.279 | Sealed | 1.17 | Sealed | 0.0357 | 0.303 | 0.805 | 0.231 | 0.286 | 0.236 | NT | NT | 0.0576 |
| | 11/09/21 | | | | 0.259 | 0.278 | 0.365 | Sealed | 0.168 | 0.273 | Sealed | 1.3 | Sealed | Inaccessible | Inaccessible | 0.914 | 0.28 | 0.39 | 0.245 | NT | NT | 0.155 |
| | 01/13/22 | | | | NT | NT | NT | Sealed | NT | NT | Sealed | NT | Sealed | 0.0351 | 0.038 | NT | NT | NT | NT | NT | NT | NT |
| | 05/17/22 | | | | 0.207 | 0.252 | 0.322 | Sealed | 0.136 | 0.247 | Sealed | 1.49 | Sealed | 0.235 | 0.182 | 0.802 | 0.243 | 0.251 | 0.22 | NT | NT | 0.0895 |
| | 10/17/22 | | | | 0.236 | 0.288 | 0.389 | Sealed | 0.151 | 0.285 | Sealed | 1.08 | Sealed | 0.297 | 0.223 | 0.871 | 0.277 | 0.325 | 0.259 | NT | NT | 0.0757 |
| | 05/22/23** | | | | 0.239 | 0.299 | 0.444 | Sealed | 0.138 | 0.277 | Sealed | 2.54 | Sealed | 0.186 | 0.267 | 0.982 | 0.237 | 0.208 | 0.263 | NT | NT | 0.0837 |
| | 10/5/23*** | | | | 0.245 | 0.277 | 0.401 | Sealed | 0.156 | 0.292 | Sealed | 1.23 | Sealed | NT | NT | 1.14 | 0.3 | 0.301 | 0.314 | NT | NT | 0.26 |
| | 05/20/24 | | | | 0.22 | 0.345 | 0.451 | Sealed | 0.15 | 0.269 | Sealed | 2.45 | Sealed | NT | NT | 1.16 | 0.26 | 0.167 | 0.251 | NT | NT | 0.0487 |
| | 07/18/24 | | | | NT | NT | NT | Sealed | NT | NT | Sealed | 1.95 | Sealed | NT | NT | NT | NT | NT | NT | NT | NT | NT |
| | 10/02/24 | | | | 0.237 | 0.283 | 0.42 | Sealed | 0.166 | 0.29 | Sealed | 1.64 | Sealed | Inaccessible | NT | 1.42 | 0.216 | 0.253 | 0.272 | NT | NT | 0.166 |
| | 05/12/25 | | | | 0.235 | 0.267 | 0.396 | Sealed | 0.208 | 0.296 | Sealed | 1.6 | Sealed | 0.0437 | 0.0426 | 1.32 | 0.216 | 0.275 | 0.221 | NT | NT | 0.116 |
| | 10/14/25 | | | | 0.227 | 0.283 | 0.413 | Sealed | 0.186 | 0.291 | Sealed | 1.07 | Sealed | Inaccessible | Sealed | 1.23 | 0.204 | 0.267 | 0.274 | 0.0912 | NT | 0.178 |
| | 11/24/25 | | | | NT | NT | NT | Sealed | NT | NT | Sealed | NT | Sealed | 0.0393 | Sealed | NT | NT | NT | NT | 0.101 | NT | NT |
| | 12/22/25 | | | | NT | NT | NT | Sealed | NT | NT | Sealed | NT | Sealed | NT | Sealed | NT | NT | NT | NT | 0.0959 | NT | NT |

## Table 6 - Semi-Annual Detection Monitoring Metals Results (2008-Present)

Dickinson Landifll - Spirit Lake, Iowa
Permit No. 30-SDP-01-75P

| Detection Parameters (IDNR) [1] | Date | RL | MCL [2] | Units | MW-11A | MW-12A | MW-13A | MW-18A | MW-19A | MW-21A | MW-22 | MW-23A | MW-29 | MW-34A | MW-36A | MW-37A | MW-38A | MW-39A | MW-40A | MW-41A | GU-B/C | GW Holding Pond |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Beryllium | 04/29/08 | 0.004 | 0.004 | mg/L | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT |
| | 05/22/08 | | (0.004) | | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT |
| | 06/18/08 | | | | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT |
| | 08/13/08 | | | | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND | NT |
| | 09/24/08 | | | | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND | NT |
| | 04/27/09 | | | | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | ND | NT |
| | 10/26/09 | | | | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | NT |
| | 11/23/09 | | | | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND | ND | NT | NT | NT | NT | NT |
| | 12/17/09 | | | | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | NT |
| | 04/13/10 | | | | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | NT |
| | 05/18/10 | | | | NT | NT | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT |
| | 06/21/10 | | | | NT | NT | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT |
| | 07/09/10 | | | | NT | ND | NT | NT | ND | NT | NT | ND | NT | NT | NT | ND | ND | NT | NT | NT | ND | NT |
| | 08/18/10 | | | | NT | NT | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT |
| | 10/18/10 | | | | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | NT |
| | 05/10/11 | | | | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | NT |
| | 10/19/11 | | | | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | Dry | NT |
| | 04/24/12 | | | | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | NT |
| | 08/06/12 | | | | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND | NT | NT | NT | NT | NT |
| | 10/25/12* | | | | ND | ND | ND | NT | ND | ND | ND | dry | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND* |
| | 05/07/13 | | | | NT | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | ND |
| | 11/11/13 | | | | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | ND |
| | 05/13/14 | | | | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | ND |
| | 11/12/14 | | | | ND | ND | ND | NT | ND | ND | Sealed | ND | Sealed | ND | ND | frozen | frozen | ND | ND | NT | NT | ND |
| | 03/18/15 | | | | NT | NT | NT | NT | NT | NT | Sealed | NT | Sealed | NT | NT | NT | NT | ND | NT | NT | NT | NT |
| | 05/27/15 | | | | NT | ND | ND | NT | ND | ND | Sealed | ND | Sealed | ND | ND | ND | ND | ND | ND | NT | NT | ND |
| | 08/20/15 | | | | NT | NT | NT | NT | NT | NT | Sealed | NT | Sealed | NT | NT | NT | NT | ND | NT | NT | NT | NT |
| | 11/18/15 | | | | ND | ND | ND | NT | ND | ND | Sealed | ND | Sealed | ND | ND | ND | ND | ND | ND | NT | NT | ND |
| | 04/25/16 | | | | NT | NT | NT | NT | NT | NT | Sealed | NT | Sealed | NT | NT | NT | NT | ND | NT | NT | NT | NT |
| | 06/16/16 | | | | ND | ND | ND | NT | ND | ND | Sealed | ND | Sealed | ND | ND | ND | ND | ND | NT | NT | NT | ND |
| | 08/17/16 | | | | NT | NT | NT | NT | NT | NT | Sealed | NT | Sealed | NT | NT | NT | NT | ND | NT | NT | NT | NT |
| | 11/16/16 | | | | ND | ND | ND | NT | ND | ND | Sealed | ND | Sealed | ND | ND | ND | ND | ND | NT | NT | NT | ND |
| | 05/30/17 | | | | ND | ND | ND | NT | ND | ND | Sealed | ND | Sealed | ND | ND | ND | ND | ND | ND | NT | NT | ND |
| | 11/21/17 | | | | ND | ND | ND | NT | ND | ND | Sealed | ND | Sealed | ND | ND | ND | ND | ND | ND | NT | NT | ND |
| | 05/31/18 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | ND | ND | ND | ND | ND | ND | NT | NT | ND |
| | 10/31/18 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | ND | ND | ND | ND | ND | ND | NT | NT | ND |
| | 05/28/19 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | ND | Inaccessible | ND | ND | ND | ND | NT | NT | ND |
| | 10/15/19 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | ND | ND | ND | ND | ND | ND | NT | NT | ND |
| | 06/03/20 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | ND | Inaccessible | ND | ND | ND | ND | NT | NT | ND |
| | 10/07/20 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | Inaccessible | Inaccessible | ND | ND | ND | ND | NT | NT | ND |
| | 05/03/21 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | ND | ND | ND | ND | ND | ND | NT | NT | ND |
| | 11/09/21 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | Inaccessible | Inaccessible | ND | ND | ND | ND | NT | NT | ND |
| | 01/13/22 | | | | NT | NT | NT | Sealed | NT | NT | Sealed | NT | Sealed | ND | ND | NT | NT | NT | NT | NT | NT | NT |
| | 05/17/22 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | ND | ND | ND | ND | ND | ND | NT | NT | ND |
| | 10/17/22 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | ND | ND | ND | ND | ND | ND | NT | NT | ND |
| | 05/22/23** | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | ND | ND | ND | ND | ND | ND | NT | NT | ND |
| | 10/5/23*** | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | NT | NT | ND | ND | ND | ND | NT | NT | ND |
| | 05/20/24 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | NT | NT | ND | ND | ND | ND | NT | NT | ND |
| | 10/02/24 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | Inaccessible | NT | ND | ND | ND | ND | NT | NT | ND |
| | 05/12/25 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | ND | ND | ND | ND | ND | ND | NT | NT | ND |
| | 10/14/25 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | Inaccessible | Sealed | ND | ND | ND | ND | ND | ND | ND |
| | 11/24/25 | | | | NT | NT | NT | Sealed | NT | NT | Sealed | NT | Sealed | ND | Sealed | NT | NT | NT | NT | ND | NT | NT |
| | 12/22/25 | | | | NT | NT | NT | Sealed | NT | NT | Sealed | NT | Sealed | NT | Sealed | NT | NT | NT | NT | ND | NT | NT |
| Cadmium | 04/29/08 | 0.005 | 0.005 | mg/L | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT |
| | 05/22/08 | | (0.005) | | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT |
| | 06/18/08 | | | | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT |
| | 08/13/08 | | | | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND | NT |
| | 09/24/08 | | | | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND | NT |
| | 04/27/09 | | | | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | ND | NT |
| | 10/26/09 | | | | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | NT |
| | 11/23/09 | | | | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND | ND | NT | NT | NT | NT | NT |
| | 12/17/09 | | | | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | NT |
| | 04/13/10 | | | | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | NT |
| | 05/18/10 | | | | NT | NT | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT |
| | 06/21/10 | | | | NT | NT | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT |
| | 07/09/10 | | | | NT | ND | NT | NT | ND | NT | NT | ND | NT | NT | NT | ND | ND | NT | NT | NT | ND | NT |
| | 08/18/10 | | | | NT | NT | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT |
| | 10/18/10 | | | | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | NT |
| | 05/10/11 | | | | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | NT |
| | 10/19/11 | | | | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | Dry | NT |
| | 04/24/12 | | | | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | NT |
| | 08/06/12 | | | | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND | NT | NT | NT | NT | NT |
| | 10/25/12* | | | | ND | ND | ND | NT | ND | ND | ND | dry | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND* |
| | 05/07/13 | | | | NT | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | ND |
| | 11/11/13 | | | | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | ND |
| | 05/13/14 | | | | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | ND |
| | 11/12/14 | | | | ND | ND | ND | NT | ND | ND | Sealed | ND | Sealed | ND | ND | frozen | frozen | ND | ND | NT | NT | ND |
| | 03/18/15 | | | | NT | NT | NT | NT | NT | NT | Sealed | NT | Sealed | NT | NT | NT | NT | ND | NT | NT | NT | NT |
| | 05/27/15 | | | | NT | ND | ND | NT | ND | ND | Sealed | ND | Sealed | ND | ND | ND | ND | ND | ND | NT | NT | ND |
| | 08/20/15 | | | | NT | NT | NT | NT | NT | NT | Sealed | NT | Sealed | NT | NT | NT | NT | ND | NT | NT | NT | NT |
| | 11/18/15 | | | | ND | ND | ND | NT | ND | ND | Sealed | ND | Sealed | ND | ND | ND | ND | ND | ND | NT | NT | ND |
| | 04/25/16 | | | | NT | NT | NT | NT | NT | NT | Sealed | NT | Sealed | NT | NT | NT | NT | ND | NT | NT | NT | NT |
| | 06/16/16 | | | | ND | ND | ND | NT | ND | ND | Sealed | ND | Sealed | ND | ND | ND | ND | ND | ND | NT | NT | ND |
| | 08/17/16 | | | | NT | NT | NT | NT | NT | NT | Sealed | NT | Sealed | NT | NT | NT | NT | ND | NT | NT | NT | NT |
| | 11/16/16 | | | | ND | ND | ND | NT | ND | ND | Sealed | ND | Sealed | ND | ND | ND | ND | ND | ND | NT | NT | ND |
| | 05/30/17 | | | | ND | ND | ND | NT | ND | ND | Sealed | ND | Sealed | ND | ND | ND | ND | ND | ND | NT | NT | ND |
| | 11/21/17 | | | | ND | ND | ND | NT | ND | ND | Sealed | ND | Sealed | ND | ND | ND | ND | ND | ND | NT | NT | ND |
| | 05/31/18 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | ND | ND | ND | ND | ND | ND | NT | NT | ND |

# Table 6 - Semi-Annual Detection Monitoring Metals Results (2008-Present)

Dickinson Landifll - Spirit Lake, Iowa
Permit No. 30-SDP-01-75P

| Detection Parameters (IDNR) [1] | Date | RL | MCL [2] | Units | MW-11A | MW-12A | MW-13A | MW-18A | MW-19A | MW-21A | MW-22 | MW-23A | MW-29 | MW-34A | MW-36A | MW-37A | MW-38A | MW-39A | MW-40A | MW-41A | GU-B/C | GW Holding Pond |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Cadmium | 10/31/18 | 0.005 | 0.005 | mg/L | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | ND | ND | ND | ND | ND | ND | NT | NT | ND |
| | 05/28/19 | | (0.005) | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | ND | Inaccessible | ND | ND | ND | ND | NT | NT | ND |
| | 10/15/19 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | ND | ND | ND | ND | ND | ND | NT | NT | ND |
| | 06/03/20 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | ND | Inaccessible | ND | ND | ND | ND | NT | NT | ND |
| | 10/07/20 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | Inaccessible | Inaccessible | ND | ND | ND | ND | NT | NT | ND |
| | 05/03/21 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | ND | ND | ND | ND | ND | ND | NT | NT | ND |
| | 11/09/21 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | Inaccessible | Inaccessible | ND | ND | ND | ND | NT | NT | ND |
| | 01/13/22 | | | | NT | NT | NT | Sealed | NT | NT | Sealed | NT | Sealed | ND | ND | NT | NT | NT | NT | NT | NT | NT |
| | 05/17/22 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | ND | ND | ND | ND | ND | ND | NT | NT | ND |
| | 10/17/22 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | ND | ND | ND | ND | ND | ND | NT | NT | ND |
| | 05/22/23** | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | ND | ND | ND | ND | ND | ND | NT | NT | ND |
| | 10/5/23*** | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | NT | NT | ND | ND | ND | ND | NT | NT | ND |
| | 05/20/24 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | NT | NT | ND | ND | ND | ND | NT | NT | ND |
| | 10/02/24 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | Inaccessible | NT | ND | ND | ND | ND | NT | NT | ND |
| | 05/12/25 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | ND | ND | ND | ND | ND | ND | NT | NT | ND |
| | 10/14/25 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | Inaccessible | Sealed | ND | ND | ND | ND | ND | ND | ND |
| | 11/24/25 | | | | NT | NT | NT | Sealed | NT | NT | Sealed | NT | Sealed | ND | Sealed | NT | NT | NT | NT | ND | NT | NT |
| | 12/22/25 | | | | NT | NT | NT | Sealed | NT | NT | Sealed | NT | Sealed | NT | Sealed | NT | NT | NT | NT | ND | NT | NT |
| Chromium | 04/29/08 | 0.01 | 0.1 | mg/L | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT |
| | 05/22/08 | | (0.1) | | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT |
| | 06/18/08 | | | | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT |
| | 08/13/08 | | | | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND | NT |
| | 09/24/08 | | | | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND | NT |
| | 04/27/09 | | | | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | ND | NT |
| | 10/26/09 | | | | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | NT |
| | 11/23/09 | | | | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND | ND | NT | NT | NT | NT | NT |
| | 12/17/09 | | | | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | NT |
| | 04/13/10 | | | | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | NT |
| | 05/18/10 | | | | NT | NT | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT |
| | 06/21/10 | | | | NT | NT | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT |
| | 07/09/10 | | | | NT | ND | NT | NT | ND | NT | NT | ND | NT | NT | NT | ND | ND | NT | NT | NT | ND | NT |
| | 08/18/10 | | | | NT | NT | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT |
| | 10/18/10 | | | | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | NT |
| | 05/10/11 | | | | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | NT |
| | 10/19/11 | | | | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | Dry | NT |
| | 04/24/12 | | | | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | NT |
| | 08/06/12 | | | | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND | NT | NT | NT | NT |
| | 10/25/12* | | | | 0.023 | ND | ND | NT | ND | ND | ND | dry | ND | ND | ND | ND | ND | 0.022 | NT | NT | NT | ND* |
| | 05/07/13 | | | | NT | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND |
| | 11/11/13 | | | | ND | ND | ND | NT | ND | ND | ND | 0.083 | ND | ND | ND | 0.012 | ND | ND | NT | NT | NT | ND |
| | 05/13/14 | | | | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND |
| | 11/12/14 | | | | ND | ND | ND | NT | ND | ND | Sealed | ND | Sealed | ND | ND | frozen | frozen | ND | ND | NT | NT | ND |
| | 03/18/15 | | | | NT | NT | NT | NT | NT | NT | Sealed | NT | Sealed | NT | NT | NT | NT | NT | 0.011 | NT | NT | NT |
| | 05/27/15 | | | | NT | ND | ND | NT | ND | ND | Sealed | ND | Sealed | ND | ND | ND | ND | ND | ND | NT | NT | ND |
| | 08/20/15 | | | | NT | NT | NT | NT | NT | NT | Sealed | NT | Sealed | NT | NT | NT | NT | NT | ND | NT | NT | NT |
| | 11/18/15 | | | | 0.013 | ND | ND | NT | ND | ND | Sealed | ND | Sealed | ND | ND | ND | ND | ND | ND | NT | NT | ND |
| | 04/25/16 | | | | NT | NT | NT | NT | NT | NT | Sealed | NT | Sealed | NT | NT | NT | NT | NT | ND | NT | NT | NT |
| | 06/16/16 | | | | ND | ND | ND | NT | ND | ND | Sealed | ND | Sealed | ND | ND | ND | ND | ND | ND | NT | NT | ND |
| | 08/17/16 | | | | NT | NT | NT | NT | NT | NT | Sealed | NT | Sealed | NT | NT | NT | NT | NT | ND | NT | NT | NT |
| | 11/16/16 | | | | ND | ND | ND | NT | ND | ND | Sealed | ND | Sealed | ND | ND | 0.0077 | ND | ND | ND | NT | NT | ND |
| | 05/30/17 | | | | ND | ND | ND | NT | ND | ND | Sealed | ND | Sealed | ND | ND | ND | ND | ND | ND | NT | NT | ND |
| | 11/21/17 | | | | ND | ND | ND | NT | ND | ND | Sealed | ND | Sealed | ND | ND | ND | ND | ND | ND | NT | NT | ND |
| | 05/31/18 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | ND | ND | ND | ND | ND | ND | NT | NT | ND |
| | 10/31/18 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | ND | ND | ND | ND | ND | ND | NT | NT | ND |
| | 05/28/19 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | ND | Inaccessible | ND | ND | ND | ND | NT | NT | ND |
| | 10/15/19 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | ND | ND | ND | ND | ND | ND | NT | NT | ND |
| | 06/03/20 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | ND | Inaccessible | ND | ND | ND | ND | NT | NT | ND |
| | 10/07/20 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | Inaccessible | Inaccessible | ND | ND | ND | ND | NT | NT | ND |
| | 05/03/21 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | ND | ND | ND | ND | ND | ND | NT | NT | ND |
| | 11/09/21 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | Inaccessible | Inaccessible | ND | ND | ND | ND | NT | NT | ND |
| | 01/13/22 | | | | NT | NT | NT | Sealed | NT | NT | Sealed | NT | Sealed | ND | ND | NT | NT | NT | NT | NT | NT | NT |
| | 05/17/22 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | ND | ND | ND | ND | ND | ND | NT | NT | ND |
| | 10/17/22 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | ND | ND | ND | ND | ND | ND | NT | NT | ND |
| | 05/22/23** | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | ND | ND | ND | ND | ND | ND | NT | NT | ND |
| | 10/5/23*** | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | NT | NT | ND | ND | ND | ND | NT | NT | ND |
| | 05/20/24 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | NT | NT | ND | ND | ND | ND | NT | NT | ND |
| | 10/02/24 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | Inaccessible | NT | ND | ND | ND | ND | NT | NT | ND |
| | 05/12/25 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | ND | ND | ND | ND | ND | ND | NT | NT | ND |
| | 10/14/25 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | Inaccessible | Sealed | ND | ND | ND | ND | ND | ND | ND |
| | 11/24/25 | | | | NT | NT | NT | Sealed | NT | NT | Sealed | NT | Sealed | ND | Sealed | NT | NT | NT | NT | ND | NT | NT |
| | 12/22/25 | | | | NT | NT | NT | Sealed | NT | NT | Sealed | NT | Sealed | NT | Sealed | NT | NT | NT | NT | ND | NT | NT |
| Cobalt | 04/29/08 | 0.01 | na | mg/L | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT |
| | 05/22/08 | | (0.007) | | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT |
| | 06/18/08 | | | | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND | NT |
| | 08/13/08 | | | | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND | NT |
| | 09/24/08 | | | | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND | NT |
| | 04/27/09 | | | | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | ND | NT |
| | 10/26/09 | | | | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | NT |
| | 11/23/09 | | | | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND | ND | NT | NT | NT | NT | NT |
| | 12/17/09 | | | | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | NT |
| | 04/13/10 | | | | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | 0.0111 | NT |
| | 05/18/10 | | | | NT | NT | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT |
| | 06/21/10 | | | | NT | NT | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT |
| | 07/09/10 | | | | NT | ND | NT | NT | ND | NT | NT | ND | NT | NT | NT | ND | ND | NT | NT | NT | ND | NT |
| | 08/18/10 | | | | NT | NT | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT |
| | 10/18/10 | | | | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | NT |
| | 05/10/11 | | | | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | NT |
| | 10/19/11 | | | | ND | ND | ND | NT | ND | ND | 0.018 | ND | ND | ND | ND | ND | ND | NT | NT | NT | Dry | NT |
| | 04/24/12 | | | | ND | ND | ND | NT | ND | ND | 0.017 | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | NT |

# Table 6 - Semi-Annual Detection Monitoring Metals Results (2008-Present)

Dickinson Landifll - Spirit Lake, Iowa
Permit No. 30-SDP-01-75P

| Detection Parameters (IDNR) [1] | Date | RL | MCL [2] | Units | MW-11A | MW-12A | MW-13A | MW-18A | MW-19A | MW-21A | MW-22 | MW-23A | MW-29 | MW-34A | MW-36A | MW-37A | MW-38A | MW-39A | MW-40A | MW-41A | GU-B/C | GW Holding Pond |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Cobalt | 08/06/12 | 0.01 | (0.007) | mg/L | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND | NT | NT | NT | NT |
| | 10/25/12* | | *na* | | 0.011 | ND | ND | NT | ND | ND | 0.012 | dry | ND | ND | ND | 0.011 | ND | ND | NT | NT | NT | ND* |
| | 05/07/13 | (0.0028) | (0.0028) | | NT | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND |
| | 11/11/13 | | | | ND | ND | ND | NT | ND | ND | ND | 0.034 | ND | ND | ND | 0.016 | ND | ND | NT | NT | NT | ND |
| | 05/13/14 | | | | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 0.01 | ND | ND | NT | NT | NT | ND |
| | 11/12/14 | | | | ND | ND | ND | NT | ND | ND | Sealed | ND | Sealed | ND | ND | frozen | frozen | ND | ND | NT | NT | ND |
| | 03/18/15 | | | | NT | NT | NT | NT | NT | NT | Sealed | NT | Sealed | NT | NT | NT | NT | NT | ND | NT | NT | NT |
| | 05/27/15 | | | | NT | ND | ND | NT | ND | ND | Sealed | ND | Sealed | ND | ND | 0.011 | ND | ND | ND | NT | NT | ND |
| | 08/20/15 | | | | NT | NT | NT | NT | NT | NT | Sealed | NT | Sealed | NT | NT | NT | NT | NT | ND | NT | NT | NT |
| | 11/18/15 | | | | 0.0063 | ND | ND | NT | ND | ND | Sealed | ND | Sealed | ND | ND | 0.0083 | ND | ND | ND | NT | NT | ND |
| | 04/25/16 | | | | NT | NT | NT | NT | NT | NT | Sealed | NT | Sealed | NT | NT | NT | NT | NT | ND | NT | NT | NT |
| | 06/16/16 | | | | ND | ND | ND | NT | ND | ND | Sealed | ND | Sealed | ND | ND | 0.0078 | ND | ND | ND | NT | NT | ND |
| | 08/17/16 | | | | NT | NT | NT | NT | NT | NT | Sealed | NT | Sealed | NT | NT | NT | NT | NT | ND | NT | NT | NT |
| | 11/16/16 | | | | ND | ND | ND | NT | ND | ND | Sealed | ND | Sealed | ND | ND | ND | ND | ND | ND | NT | NT | ND |
| | 05/30/17 | | | | ND | ND | ND | NT | ND | ND | Sealed | ND | Sealed | ND | ND | 0.0068 | ND | ND | ND | NT | NT | ND |
| | 11/21/17 | | | | ND | ND | ND | NT | ND | ND | Sealed | ND | Sealed | ND | ND | 0.0069 | ND | ND | ND | NT | NT | ND |
| | 05/31/18 | 0.0021 | (0.0021) | | ND | ND | ND | Sealed | ND | ND | Sealed | 0.013 | Sealed | ND | ND | 0.0073 | ND | ND | ND | NT | NT | ND |
| | 10/31/18 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | 0.0033 | Sealed | ND | ND | 0.0080 | ND | ND | ND | NT | NT | ND |
| | 05/28/19 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | 0.014 | Sealed | ND | Inaccessible | 0.0070 | ND | ND | ND | NT | NT | ND |
| | 10/15/19 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | 0.0062 | Sealed | ND | ND | 0.0079 | ND | ND | ND | NT | NT | ND |
| | 06/03/20 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | 0.00974 | Sealed | ND | Inaccessible | 0.00910 | ND | ND | ND | NT | NT | ND |
| | 10/07/20 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | 0.00312 | Sealed | Inaccessible | Inaccessible | 0.00966 | ND | ND | ND | NT | NT | ND |
| | 05/03/21 | 0.002 | na | | ND | ND | 0.00283 | Sealed | ND | ND | Sealed | 0.0147 | Sealed | ND | ND | 0.01060 | ND | ND | ND | NT | NT | ND |
| | 11/09/21 | | (0.0021) | | ND | 0.00204 | ND | Sealed | ND | ND | Sealed | 0.0102 | Sealed | Inaccessible | Inaccessible | 0.0125 | ND | ND | ND | NT | NT | ND |
| | 01/13/22 | | | | NT | NT | NT | Sealed | NT | NT | Sealed | NT | Sealed | ND | ND | NT | NT | NT | NT | NT | NT | NT |
| | 05/17/22 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | 0.0144 | Sealed | ND | ND | 0.014 | ND | ND | ND | NT | NT | ND |
| | 10/17/22 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | 0.0038 | Sealed | ND | ND | 0.0132 | ND | ND | ND | NT | NT | ND |
| | 05/22/23** | | | | ND | 0.00236 | 0.00465 | Sealed | ND | ND | Sealed | 0.0149 | Sealed | ND | ND | 0.016 | ND | ND | ND | NT | NT | ND |
| | 10/5/23*** | | | | ND | 0.00217 | 0.00237 | Sealed | ND | ND | Sealed | 0.00519 | Sealed | NT | NT | 0.0187 | 0.00247 | ND | ND | NT | NT | 0.00244 |
| | 11/27/23 | | | | NT | NT | NT | Sealed | NT | NT | Sealed | NT | NT | NT | NT | NT | ND | NT | NT | NT | NT | ND |
| | 05/20/24 | | | | ND | ND | 0.00217 | Sealed | ND | ND | Sealed | 0.0135 | Sealed | NT | NT | 0.0184 | 0.00207 | ND | ND | NT | NT | 0.00394 |
| | 07/18/24 | | | | NT | NT | NT | Sealed | NT | NT | Sealed | NT | Sealed | NT | NT | NT | NT | NT | NT | NT | NT | ND |
| | 10/02/24 | | | | ND | 0.0024 | ND | Sealed | ND | ND | Sealed | ND | Sealed | Inaccessible | NT | 0.0239 | ND | ND | ND | NT | NT | 0.00578 |
| | 05/12/25 | | | | ND | 0.0022 | 0.00237 | Sealed | ND | ND | Sealed | 0.0113 | Sealed | 0.00402 | ND | 0.023 | ND | ND | ND | NT | NT | ND |
| | 10/14/25 | | | | ND | 0.00255 | ND | Sealed | ND | ND | Sealed | 0.00318 | Sealed | Inaccessible | Sealed | 0.0212 | ND | ND | ND | ND | ND | ND |
| | 11/24/25 | | | | NT | NT | NT | Sealed | NT | NT | Sealed | NT | Sealed | ND | Sealed | NT | NT | NT | NT | ND | NT | NT |
| | 12/22/25 | | | | NT | NT | NT | Sealed | NT | NT | Sealed | NT | Sealed | NT | Sealed | NT | NT | NT | NT | ND | NT | NT |
| Copper | 04/29/08 | 0.01 | 1.3 | mg/L | ND | ND | ND | ND | 0.01 | ND | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT |
| | 05/22/08 | | (1.3) | | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT |
| | 06/18/08 | | | | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT |
| | 08/13/08 | | | | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND | NT |
| | 09/24/08 | | | | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND | NT |
| | 04/27/09 | | | | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | 0.144 | NT |
| | 10/26/09 | | | | ND | ND(0.006) | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | NT |
| | 11/23/09 | | | | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND | ND | NT | NT | NT | NT | NT |
| | 12/17/09 | | | | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | 0.134 | NT |
| | 04/13/10 | | | | ND | ND | ND | NT | ND | ND | 0.0161 | ND | ND | ND | ND | ND | ND | NT | NT | NT | 0.411 | NT |
| | 05/18/10 | | | | NT | NT | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT |
| | 06/21/10 | | | | NT | NT | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT |
| | 07/09/10 | | | | NT | ND | NT | NT | ND | NT | NT | ND | NT | NT | NT | ND | ND | NT | NT | NT | ND | NT |
| | 08/18/10 | | | | NT | NT | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT |
| | 10/18/10 | | | | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | NT |
| | 05/10/11 | | | | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | NT |
| | 10/19/11 | | | | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | Dry | NT |
| | 04/24/12 | | | | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | 0.027 | NT |
| | 08/06/12 | | | | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND | NT | NT | NT | NT |
| | 10/25/12* | | | | 0.021 | ND | ND | NT | ND | ND | ND | dry | ND | ND | ND | ND | ND | 0.017 | NT | NT | NT | ND* |
| | 05/07/13 | | | | NT | ND | ND | NT | ND | ND | 0.015 | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND |
| | 11/11/13 | | | | ND | ND | ND | NT | ND | ND | 0.026 | 0.11 | ND | ND | ND | 0.13 | ND | ND | NT | NT | NT | ND |
| | 05/13/14 | | | | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND |
| | 11/12/14 | | | | ND | ND | ND | NT | ND | ND | Sealed | ND | Sealed | ND | ND | frozen | frozen | ND | ND | NT | NT | ND |
| | 03/18/15 | | | | NT | NT | NT | NT | NT | NT | Sealed | NT | Sealed | NT | NT | NT | NT | NT | ND | NT | NT | NT |
| | 05/27/15 | | | | NT | ND | ND | NT | ND | ND | Sealed | ND | Sealed | ND | ND | ND | ND | ND | ND | NT | NT | ND |
| | 08/20/15 | | | | NT | NT | NT | NT | NT | NT | Sealed | NT | Sealed | NT | NT | NT | NT | NT | ND | NT | NT | NT |
| | 11/18/15 | | | | 0.015 | ND | ND | NT | ND | ND | Sealed | ND | Sealed | ND | ND | ND | ND | ND | ND | NT | NT | ND |
| | 04/25/16 | | | | NT | NT | NT | NT | NT | NT | Sealed | NT | Sealed | NT | NT | NT | NT | NT | ND | NT | NT | NT |
| | 06/16/16 | | | | ND | ND | ND | NT | ND | ND | Sealed | ND | Sealed | ND | ND | ND | ND | ND | ND | NT | NT | ND |
| | 08/17/16 | | | | NT | NT | NT | NT | NT | NT | Sealed | NT | Sealed | NT | NT | NT | NT | NT | ND | NT | NT | NT |
| | 11/16/16 | | | | ND | ND | ND | NT | ND | ND | Sealed | ND | Sealed | ND | ND | ND | ND | ND | ND | NT | NT | ND |
| | 05/30/17 | | | | ND | ND | ND | NT | ND | ND | Sealed | ND | Sealed | ND | ND | ND | ND | ND | ND | NT | NT | ND |
| | 11/21/17 | | | | ND | ND | ND | NT | ND | ND | Sealed | ND | Sealed | ND | ND | ND | ND | ND | ND | NT | NT | ND |
| | 05/31/18 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | ND | ND | ND | ND | ND | ND | NT | NT | ND |
| | 10/31/18 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | ND | ND | ND | ND | ND | ND | NT | NT | ND |
| | 05/28/19 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | ND | Inaccessible | ND | ND | ND | ND | NT | NT | ND |
| | 10/15/19 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | ND | ND | ND | ND | ND | ND | NT | NT | ND |
| | 06/03/20 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | ND | Inaccessible | ND | ND | ND | ND | NT | NT | ND |
| | 10/07/20 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | Inaccessible | Inaccessible | ND | ND | ND | ND | NT | NT | ND |
| | 05/03/21 | | | | ND | ND | 0.0113 | Sealed | ND | ND | Sealed | ND | Sealed | ND | ND | ND | ND | ND | ND | NT | NT | ND |
| | 11/09/21 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | Inaccessible | Inaccessible | ND | ND | ND | ND | NT | NT | ND |
| | 01/13/22 | | | | NT | NT | NT | Sealed | NT | NT | Sealed | NT | Sealed | ND | ND | NT | NT | NT | NT | NT | NT | NT |
| | 05/17/22 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | ND | ND | ND | ND | ND | ND | NT | NT | ND |
| | 10/17/22 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | ND | ND | ND | ND | ND | ND | NT | NT | ND |
| | 05/22/23** | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | ND | ND | ND | ND | ND | ND | NT | NT | ND |
| | 10/5/23*** | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | NT | NT | ND | 0.0111 | ND | ND | NT | NT | ND |
| | 05/20/24 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | NT | NT | ND | ND | ND | ND | NT | NT | ND |
| | 10/02/24 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | Inaccessible | NT | ND | ND | ND | ND | NT | NT | ND |
| | 05/12/25 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | ND | ND | ND | ND | ND | ND | NT | NT | ND |
| | 10/14/25 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | Inaccessible | Sealed | ND | ND | ND | ND | ND | ND | ND |
| | 11/24/25 | | | | NT | NT | NT | Sealed | NT | NT | Sealed | NT | Sealed | ND | Sealed | NT | NT | NT | NT | ND | NT | NT |
| | 12/22/25 | | | | NT | NT | NT | Sealed | NT | NT | Sealed | NT | Sealed | NT | Sealed | NT | NT | NT | NT | ND | NT | NT |

# Table 6 - Semi-Annual Detection Monitoring Metals Results (2008-Present)

Dickinson Landifll - Spirit Lake, Iowa
Permit No. 30-SDP-01-75P

| Detection Parameters (IDNR) [1] | Date | RL | MCL [2] | Units | MW-11A | MW-12A | MW-13A | MW-18A | MW-19A | MW-21A | MW-22 | MW-23A | MW-29 | MW-34A | MW-36A | MW-37A | MW-38A | MW-39A | MW-40A | MW-41A | GU-B/C | GW Holding Pond |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lead | 04/29/08 | 0.01 | 0.015 | mg/L | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT |
| | 05/22/08 | | (0.015) | | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT |
| | 06/18/08 | | | | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND | NT |
| | 08/13/08 | | | | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND | NT |
| | 09/24/08 | | | | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND | NT |
| | 04/27/09 | | | | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | 0.0103 | NT |
| | 10/26/09 | | | | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | NT |
| | 11/23/09 | | | | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND | ND | NT | NT | NT | NT | NT |
| | 12/17/09 | | | | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | 0.0166 | NT |
| | 04/13/10 | | | | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | 0.109 | NT |
| | 05/18/10 | | | | NT | NT | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT |
| | 06/21/10 | | | | NT | NT | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT |
| | 07/09/10 | | | | NT | ND | NT | NT | ND | NT | NT | ND | NT | NT | NT | ND | ND | NT | NT | NT | ND | NT |
| | 08/18/10 | | | | NT | NT | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT |
| | 10/18/10 | | | | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | NT |
| | 05/10/11 | | | | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | NT |
| | 10/19/11 | | | | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | Dry | NT |
| | 04/24/12 | | | | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | NT |
| | 08/06/12 | | | | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND | NT | NT | NT | NT |
| | 10/25/12* | | | | ND | ND | ND | NT | ND | ND | ND | dry | ND | ND | ND | ND | ND | 0.024 | NT | NT | NT | ND* |
| | 05/07/13 | | | | NT | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND |
| | 11/11/13 | | | | ND | ND | ND | NT | ND | ND | ND | 0.01 | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND |
| | 05/13/14 | | | | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND |
| | 11/12/14 | | | | ND | ND | ND | NT | ND | ND | Sealed | ND | Sealed | ND | ND | frozen | frozen | ND | ND | NT | NT | ND |
| | 03/18/15 | | | | NT | NT | NT | NT | NT | NT | Sealed | NT | Sealed | NT | NT | NT | NT | ND | NT | NT | NT | NT |
| | 05/27/15 | | | | NT | ND | ND | NT | ND | ND | Sealed | ND | Sealed | ND | ND | ND | ND | ND | ND | NT | NT | ND |
| | 08/20/15 | | | | NT | NT | NT | NT | NT | NT | Sealed | NT | Sealed | NT | NT | NT | NT | ND | NT | NT | NT | NT |
| | 11/18/15 | | | | ND | ND | ND | NT | ND | ND | Sealed | ND | Sealed | ND | ND | ND | ND | ND | ND | NT | NT | ND |
| | 04/25/16 | | | | NT | NT | NT | NT | NT | NT | Sealed | NT | Sealed | NT | NT | NT | NT | ND | NT | NT | NT | NT |
| | 06/16/16 | | | | ND | ND | ND | NT | ND | ND | Sealed | ND | Sealed | ND | ND | ND | ND | ND | NT | NT | NT | ND |
| | 08/17/16 | | | | NT | NT | NT | NT | NT | NT | Sealed | NT | Sealed | NT | NT | NT | NT | ND | NT | NT | NT | NT |
| | 11/16/16 | | | | ND | ND | ND | NT | ND | ND | Sealed | ND | Sealed | ND | ND | ND | ND | ND | NT | NT | NT | ND |
| | 05/30/17 | | | | ND | ND | ND | NT | ND | ND | Sealed | ND | Sealed | ND | ND | ND | ND | ND | ND | NT | NT | ND |
| | 11/21/17 | | | | ND | ND | ND | NT | ND | ND | Sealed | ND | Sealed | ND | ND | ND | ND | ND | ND | NT | NT | ND |
| | 05/31/18 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | ND | ND | ND | ND | ND | ND | NT | NT | ND |
| | 10/31/18 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | ND | ND | ND | ND | ND | ND | NT | NT | ND |
| | 05/28/19 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | ND | Inaccessible | ND | ND | ND | ND | NT | NT | ND |
| | 10/15/19 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | ND | ND | ND | ND | ND | ND | NT | NT | ND |
| | 06/03/20 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | ND | Inaccessible | ND | ND | ND | ND | NT | NT | ND |
| | 10/07/20 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | Inaccessible | Inaccessible | ND | ND | ND | ND | NT | NT | ND |
| | 05/03/21 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | ND | ND | ND | ND | ND | ND | NT | NT | ND |
| | 11/09/21 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | Inaccessible | Inaccessible | ND | ND | ND | ND | NT | NT | ND |
| | 01/13/22 | | | | NT | NT | NT | Sealed | NT | NT | Sealed | NT | Sealed | ND | ND | NT | NT | NT | NT | NT | NT | NT |
| | 05/17/22 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | ND | ND | ND | ND | ND | ND | NT | NT | ND |
| | 10/17/22 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | ND | ND | ND | ND | ND | ND | NT | NT | ND |
| | 05/22/23** | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | ND | ND | ND | ND | ND | ND | NT | NT | ND |
| | 10/5/23*** | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | NT | NT | 0.0113 | ND | ND | ND | NT | NT | ND |
| | 05/20/24 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | NT | NT | ND | ND | ND | ND | NT | NT | ND |
| | 10/02/24 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | Inaccessible | NT | ND | ND | ND | ND | NT | NT | ND |
| | 05/12/25 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | ND | ND | ND | ND | ND | ND | NT | NT | ND |
| | 10/14/25 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | Inaccessible | Sealed | ND | ND | ND | ND | ND | ND | ND |
| | 11/24/25 | | | | NT | NT | NT | Sealed | NT | NT | Sealed | NT | Sealed | ND | Sealed | NT | NT | NT | NT | ND | NT | NT |
| | 12/22/25 | | | | NT | NT | NT | Sealed | NT | NT | Sealed | NT | Sealed | NT | Sealed | NT | NT | NT | NT | ND | NT | NT |
| Nickel | 04/29/08 | 0.01 | na | mg/L | ND | ND | ND | ND | 0.018 | ND | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | 0.025 | NT |
| | 05/22/08 | | (0.1) | | ND | ND | ND | ND | 0.015 | ND | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | 0.014 | NT |
| | 06/18/08 | | | | ND | ND | ND | ND | 0.014 | ND | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | 0.023 | NT |
| | 08/13/08 | | | | ND | ND | ND | ND | 0.012 | ND | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | 0.012 | NT |
| | 09/24/08 | | | | ND | ND | ND | ND | 0.012 | ND | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | 0.012 | NT |
| | 04/27/09 | | | | ND | ND | ND | NT | 0.0121 | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | 0.0713 | NT |
| | 10/26/09 | | | | ND | ND | ND | NT | 0.0313 (0.012) | ND | 0.0171 | ND | ND | ND | ND | 0.0408 | 0.0284 | NT | NT | NT | 0.033 | NT |
| | 11/23/09 | | | | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | 0.039 | 0.0311 | NT | NT | NT | NT | NT |
| | 12/17/09 | | | | ND | ND | ND | NT | 0.0122 (0.0120) | ND | 0.0198 | ND | ND | ND | ND | 0.040 | 0.0351 | NT | NT | NT | 0.0724 | NT |
| | 04/13/10 | | | | ND | ND | ND | NT | 0.0125 | ND | 0.0383 | ND | ND | ND | ND | 0.0378 | 0.0278 | NT | NT | NT | 3.51 | NT |
| | 05/18/10 | | | | NT | NT | NT | NT | NT | NT | 0.0428 | ND | ND | ND | ND | 0.0359 | 0.028 | NT | NT | NT | NT | NT |
| | 06/21/10 | | | | NT | NT | NT | NT | NT | NT | 0.0403 | ND | ND | ND | ND | 0.0378 | 0.0282 | NT | NT | NT | NT | NT |
| | 07/09/10 | | | | NT | ND | NT | NT | 0.0141 | NT | NT | ND | NT | NT | NT | 0.0369 | 0.0269 | NT | NT | NT | 0.0122 | NT |
| | 08/18/10 | | | | NT | NT | NT | NT | NT | NT | 0.0424 | ND | ND | ND | ND | 0.0407 | 0.0326 | NT | NT | NT | NT | NT |
| | 10/18/10 | | | | ND | ND | ND | NT | 0.0124 | ND | 0.0384 | ND | ND | ND | ND | 0.0422 | 0.038 | NT | NT | NT | 0.0137 | NT |
| | 05/10/11 | | | | ND | ND | ND | NT | 0.014 (0.014) | ND | 0.077 (0.079) | ND | ND | ND | ND | 0.038 (0.038) | 0.025 (0.026) | NT | NT | NT | 0.021 (0.015) | NT |
| | 10/19/11 | | | | ND | ND | ND | NT | 0.014 | ND | 0.12 | ND | ND | ND | ND | 0.046 | 0.025 | NT | NT | NT | Dry | NT |
| | 04/24/12 | | | | ND | ND | ND | NT | 0.013 | ND | 0.093 | ND | ND | ND | ND | 0.048 | 0.027 | NT | NT | NT | 0.044 | NT |
| | 08/06/12 | | | | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND | NT | NT | NT | NT |
| | 10/25/12* | | | | 0.023 | ND | ND | NT | 0.012 | ND | 0.084 | dry | ND | ND | ND | 0.054 | 0.024 | 0.03 | NT | NT | NT | ND* |
| | 05/07/13 | | | | NT | 0.011 | ND | NT | 0.011 | ND | 0.085 | ND | ND | ND | ND | 0.066 | 0.025 | ND | NT | NT | NT | ND |
| | 11/11/13 | | | | ND | ND | ND | NT | 0.011 | ND | 0.14 | 0.1 | ND | ND | ND | 0.06 | 0.026 | ND | NT | NT | NT | ND |
| | 05/13/14 | | | | ND | ND | ND | ND | 0.013 | ND | 0.12 | ND | ND | ND | ND | 0.064 | 0.019 | ND | NT | NT | NT | ND |
| | 11/12/14 | | | | ND | ND | ND | NT | 0.013 | ND | Sealed | ND | Sealed | ND | ND | frozen | frozen | ND | ND | NT | NT | ND |
| | 03/18/15 | | | | NT | NT | NT | NT | NT | NT | Sealed | NT | Sealed | NT | NT | NT | NT | ND | NT | NT | NT | NT |
| | 05/27/15 | | | | NT | ND | ND | NT | 0.011 | ND | Sealed | ND | Sealed | ND | ND | 0.057 | 0.019 | ND | ND | NT | NT | ND |
| | 08/20/15 | | | | NT | NT | NT | NT | NT | NT | Sealed | NT | Sealed | NT | NT | NT | NT | ND | NT | NT | NT | NT |
| | 11/18/15 | | | | 0.013 | 0.011 | ND | NT | ND | ND | Sealed | ND | Sealed | ND | ND | 0.1 | ND | ND | ND | NT | NT | ND |
| | 04/25/16 | | | | NT | NT | NT | NT | NT | NT | Sealed | NT | Sealed | NT | NT | NT | NT | ND | NT | NT | NT | NT |
| | 06/16/16 | | | | ND | ND | ND | NT | 0.014 | ND | Sealed | ND | Sealed | ND | ND | 0.045 | 0.01 | ND | ND | NT | NT | ND |
| | 08/17/16 | | | | NT | NT | NT | NT | NT | NT | Sealed | NT | Sealed | NT | NT | NT | NT | ND | ND | NT | NT | NT |
| | 11/16/16 | | | | ND | ND | ND | NT | 0.015 | ND | Sealed | ND | Sealed | ND | ND | 0.048 | 0.01 | ND | ND | NT | NT | ND |
| | 05/30/17 | | | | ND | ND | ND | NT | 0.016 | ND | Sealed | 0.013 | Sealed | ND | ND | 0.051 | 0.013 | ND | ND | NT | NT | ND |
| | 11/21/17 | | | | ND | ND | ND | NT | 0.013 | ND | Sealed | 0.011 | Sealed | ND | ND | 0.051 | 0.016 | ND | ND | NT | NT | ND |
| | 05/31/18 | | | | ND | ND | ND | Sealed | 0.015 | ND | Sealed | 0.04 | Sealed | ND | ND | 0.053 | 0.017 | ND | ND | NT | NT | ND |
| | 10/31/18 | | | | ND | 0.010 | ND | Sealed | 0.019 | ND | Sealed | 0.016 | Sealed | 0.017 | ND | 0.063 | 0.018 | ND | ND | NT | NT | ND |
| | 05/28/19 | | | | ND | ND | ND | Sealed | 0.016 | ND | Sealed | 0.042 | Sealed | ND | Inaccessible | 0.077 | 0.018 | ND | ND | NT | NT | 0.011 |
| | 10/15/19 | | | | ND | ND | ND | Sealed | 0.021 | ND | Sealed | 0.021 | Sealed | 0.021 | ND | 0.075 | 0.021 | ND | ND | NT | NT | 0.010 |
| | 06/03/20 | | | | ND | 0.0106 | ND | Sealed | 0.0221 | ND | Sealed | 0.028 | Sealed | ND | Inaccessible | 0.0834 | 0.0265 | ND | ND | NT | NT | 0.0137 |
| | 10/07/20 | | | | ND | ND | ND | Sealed | 0.0233 | ND | Sealed | 0.0124 | Sealed | Inaccessible | Inaccessible | 0.101 | 0.0309 | ND | ND | NT | NT | ND |
| | 05/03/21 | | | | ND | ND | ND | Sealed | 0.0181 | ND | Sealed | 0.0261 | Sealed | ND | ND | 0.0903 | 0.0277 | ND | ND | NT | NT | ND |

# Table 6 - Semi-Annual Detection Monitoring Metals Results (2008-Present)

Dickinson Landifll - Spirit Lake, Iowa
Permit No. 30-SDP-01-75P

| Detection Parameters (IDNR) [1] | Date | RL | MCL [2] | Units | MW-11A | MW-12A | MW-13A | MW-18A | MW-19A | MW-21A | MW-22 | MW-23A | MW-29 | MW-34A | MW-36A | MW-37A | MW-38A | MW-39A | MW-40A | MW-41A | GU-B/C | GW Holding Pond |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Nickel | 11/09/21 | 0.01 | na | mg/L | ND | ND | ND | Sealed | 0.0177 | ND | Sealed | 0.0158 | Sealed | Inaccessible | Inaccessible | 0.106 | 0.0296 | ND | ND | NT | NT | 0.0168 |
| | 01/13/22 | | (0.1) | | NT | NT | NT | Sealed | NT | NT | Sealed | NT | Sealed | ND | ND | NT | NT | NT | NT | NT | NT | NT |
| | 05/17/22 | | | | ND | 0.0109 | ND | Sealed | 0.0204 | ND | Sealed | 0.0233 | Sealed | ND | ND | 0.102 | 0.0306 | ND | ND | NT | NT | 0.0223 |
| | 7/28/22 (01) | | | | NT | NT | NT | Sealed | NT | NT | Sealed | NT | Sealed | NT | NT | NT | NT | NT | NT | NT | NT | 0.0116 |
| | 7/28/22 (02) | | | | NT | NT | NT | Sealed | NT | NT | Sealed | NT | Sealed | NT | NT | NT | NT | NT | NT | NT | NT | 0.0174 |
| | 10/17/22 | | | | ND | ND | ND | Sealed | 0.0261 | ND | Sealed | 0.01 | Sealed | ND | ND | 0.135 | 0.0361 | ND | ND | NT | NT | ND |
| | 05/22/23** | | | | ND | ND | ND | Sealed | 0.0183 | ND | Sealed | 0.0236 | Sealed | ND | ND | 0.131 | 0.0257 | ND | ND | NT | NT | 0.0287 |
| | 10/5/23*** | | | | ND | 0.0118 | ND | Sealed | 0.0302 | ND | Sealed | 0.0121 | Sealed | NT | NT | 0.178 | 0.0288 | ND | 0.0234 | NT | NT | 0.0259 |
| | 05/20/24 | | | | ND | ND | ND | Sealed | 0.0261 | ND | Sealed | 0.0185 | Sealed | NT | NT | 0.181 | 0.0391 | ND | ND | NT | NT | 0.038 |
| | 07/18/24 | | | | NT | NT | NT | Sealed | NT | NT | Sealed | NT | Sealed | NT | NT | NT | NT | NT | NT | NT | NT | 0.0216 |
| | 10/02/24 | | | | ND | 0.0132 | ND | Sealed | 0.0251 | ND | Sealed | ND | Sealed | Inaccessible | NT | 0.258 | 0.0316 | ND | ND | NT | NT | 0.0364 |
| | 11/12/24 | | | | NT | NT | NT | Sealed | NT | NT | Sealed | NT | Sealed | NT | NT | NT | NT | NT | NT | NT | NT | 0.0328 [0.0342] |
| | 05/12/25 | | | | ND | 0.0145 | ND | Sealed | 0.0386 | ND | Sealed | 0.0136 | Sealed | ND | 0.0713 | 0.278 | 0.0317 | ND | ND | NT | NT | 0.0221 |
| | 10/14/25 | | | | ND | 0.0154 | ND | Sealed | 0.0335 | ND | Sealed | ND | Sealed | Inaccessible | Sealed | 0.289 | 0.0315 | ND | ND | ND | ND | 0.0142 |
| | 11/24/25 | | | | NT | NT | NT | Sealed | NT | NT | Sealed | NT | Sealed | ND | Sealed | NT | NT | NT | NT | ND | NT | NT |
| | 12/22/25 | | | | NT | NT | NT | Sealed | NT | NT | Sealed | NT | Sealed | NT | Sealed | NT | NT | NT | NT | ND | NT | NT |
| Selenium | 04/29/08 | 0.01 | 0.05 | mg/L | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND | NT |
| | 05/22/08 | | (0.05) | | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND | NT |
| | 06/18/08 | | | | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND | NT |
| | 08/13/08 | | | | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND | NT |
| | 09/24/08 | | | | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND | NT |
| | 04/27/09 | | | | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | ND | NT |
| | 10/26/09 | | | | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | NT |
| | 11/23/09 | | | | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND | ND | NT | NT | NT | NT | NT |
| | 12/17/09 | | | | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | NT |
| | 04/13/10 | | | | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | NT |
| | 05/18/10 | | | | NT | NT | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT |
| | 06/21/10 | | | | NT | NT | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT |
| | 07/09/10 | | | | NT | ND | NT | NT | ND | NT | NT | ND | NT | NT | NT | ND | ND | NT | NT | NT | ND | NT |
| | 08/18/10 | | | | NT | NT | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT |
| | 10/18/10 | | | | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | NT |
| | 05/10/11 | | | | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | NT |
| | 10/19/11 | | | | ND | ND | ND | NT | ND | ND | ND | ND | ND | 0.011 | ND | ND | ND | NT | NT | NT | Dry | NT |
| | 04/24/12 | | | | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | NT |
| | 08/06/12 | | | | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND | NT | NT | NT | NT |
| | 10/25/12* | | | | ND | ND | ND | NT | ND | ND | ND | dry | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND* |
| | 05/07/13 | | | | NT | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND |
| | 11/11/13 | | | | 0.025 | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND |
| | 05/13/14 | | | | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND |
| | 11/12/14 | | | | 0.067 | ND | ND | NT | ND | ND | Sealed | ND | Sealed | ND | ND | frozen | frozen | ND | ND | NT | NT | ND |
| | 03/18/15 | | | | NT | NT | NT | NT | NT | NT | Sealed | NT | Sealed | NT | NT | NT | NT | NT | ND | NT | NT | NT |
| | 05/27/15 | | | | NT | ND | ND | NT | ND | ND | Sealed | ND | Sealed | ND | ND | ND | ND | ND | ND | NT | NT | ND |
| | 08/20/15 | | | | NT | NT | NT | NT | NT | NT | Sealed | NT | Sealed | NT | NT | NT | NT | NT | ND | NT | NT | NT |
| | 11/18/15 | | | | 0.044 | ND | ND | NT | ND | ND | Sealed | ND | Sealed | ND | ND | ND | ND | ND | ND | NT | NT | ND |
| | 04/25/16 | | | | NT | NT | NT | NT | NT | NT | Sealed | NT | Sealed | NT | NT | NT | NT | NT | ND | NT | NT | NT |
| | 06/16/16 | | | | ND | ND | ND | NT | ND | ND | Sealed | ND | Sealed | 0.022 | 0.046 | ND | ND | ND | ND | NT | NT | ND |
| | 08/17/16 | | | | NT | NT | NT | NT | NT | NT | Sealed | NT | Sealed | NT | NT | NT | NT | NT | ND | NT | NT | NT |
| | 11/16/16 | | | | ND | ND | ND | NT | ND | ND | Sealed | ND | Sealed | 0.012 | ND | ND | ND | ND | ND | NT | NT | ND |
| | 05/30/17 | | | | ND | ND | ND | NT | ND | ND | Sealed | ND | Sealed | 0.025 | 0.038 | ND | ND | ND | ND | NT | NT | ND |
| | 11/21/17 | | | | ND | ND | ND | NT | ND | ND | Sealed | ND | Sealed | ND | ND | ND | ND | ND | ND | NT | NT | ND |
| | 05/31/18 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | ND | ND | 0.026 | ND | ND | ND | NT | NT | ND |
| | 10/31/18 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | ND | ND | ND | ND | ND | ND | NT | NT | ND |
| | 05/28/19 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | ND | Inaccessible | ND | ND | ND | ND | NT | NT | ND |
| | 10/15/19 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | ND | ND | ND | ND | ND | ND | NT | NT | ND |
| | 06/03/20 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | ND | Inaccessible | ND | ND | ND | ND | NT | NT | ND |
| | 10/07/20 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | Inaccessible | Inaccessible | ND | ND | ND | ND | NT | NT | ND |
| | 05/03/21 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | ND | ND | ND | ND | ND | ND | NT | NT | ND |
| | 11/09/21 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | Inaccessible | Inaccessible | ND | ND | ND | ND | NT | NT | ND |
| | 01/13/22 | | | | NT | NT | NT | Sealed | NT | NT | Sealed | NT | Sealed | ND | ND | NT | NT | NT | NT | NT | NT | NT |
| | 05/17/22 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | ND | ND | ND | ND | ND | ND | NT | NT | ND |
| | 10/17/22 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | ND | ND | ND | ND | ND | ND | NT | NT | ND |
| | 05/22/23** | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | ND | ND | ND | ND | ND | ND | NT | NT | ND |
| | 10/5/23*** | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | NT | NT | ND | ND | ND | ND | NT | NT | ND |
| | 05/20/24 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | NT | NT | ND | ND | ND | ND | NT | NT | ND |
| | 10/02/24 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | Inaccessible | NT | ND | ND | ND | ND | NT | NT | ND |
| | 05/12/25 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | ND | ND | ND | ND | ND | ND | NT | NT | ND |
| | 10/14/25 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | Inaccessible | Sealed | ND | ND | ND | ND | ND | ND | ND |
| | 11/24/25 | | | | NT | NT | NT | Sealed | NT | NT | Sealed | NT | Sealed | ND | Sealed | NT | NT | NT | NT | ND | NT | NT |
| | 12/22/25 | | | | NT | NT | NT | Sealed | NT | NT | Sealed | NT | Sealed | NT | Sealed | NT | NT | NT | NT | ND | NT | NT |
| Silver | 04/29/08 | 0.01 | na | mg/L | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT |
| | 05/22/08 | | (0.1) | | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT |
| | 06/18/08 | | | | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND | NT |
| | 08/13/08 | | | | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND | NT |
| | 09/24/08 | | | | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND | NT |
| | 04/27/09 | | | | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | ND | NT |
| | 10/26/09 | | | | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | NT |
| | 11/23/09 | | | | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND | ND | NT | NT | NT | NT | NT |
| | 12/17/09 | | | | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | NT |
| | 04/13/10 | | | | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | NT |
| | 05/18/10 | | | | NT | NT | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT |
| | 06/21/10 | | | | NT | NT | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT |
| | 07/09/10 | | | | NT | ND | NT | NT | ND | NT | NT | ND | NT | NT | NT | ND | ND | NT | NT | NT | ND | NT |
| | 08/18/10 | | | | NT | NT | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT |
| | 10/18/10 | | | | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | NT |
| | 05/10/11 | | | | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | NT |
| | 10/19/11 | | | | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | Dry | NT |
| | 04/24/12 | | | | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | NT |
| | 08/06/12 | | | | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND | NT | NT | NT | NT |
| | 10/25/12* | | | | ND | ND | ND | NT | ND | ND | ND | dry | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND* |
| | 05/07/13 | | | | NT | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND |
| | 11/11/13 | | | | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND |
| | 05/13/14 | | | | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND |
| | 11/12/14 | | | | ND | ND | ND | NT | ND | ND | Sealed | ND | Sealed | ND | ND | frozen | frozen | ND | ND | NT | NT | ND |
| | 03/18/15 | | | | NT | NT | NT | NT | NT | NT | Sealed | NT | Sealed | NT | NT | NT | NT | NT | ND | NT | NT | NT |
| | 05/27/15 | | | | NT | ND | ND | NT | ND | ND | Sealed | ND | Sealed | ND | ND | ND | ND | ND | ND | NT | NT | ND |

# Table 6 - Semi-Annual Detection Monitoring Metals Results (2008-Present)

Dickinson Landifll - Spirit Lake, Iowa
Permit No. 30-SDP-01-75P

| Detection Parameters (IDNR) [1] | Date | RL | MCL [2] | Units | MW-11A | MW-12A | MW-13A | MW-18A | MW-19A | MW-21A | MW-22 | MW-23A | MW-29 | MW-34A | MW-36A | MW-37A | MW-38A | MW-39A | MW-40A | MW-41A | GU-B/C | GW Holding Pond |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Silver | 08/20/15 | 0.01 | (0.1) | mg/L | NT | NT | NT | NT | NT | NT | Sealed | NT | Sealed | NT | NT | NT | NT | NT | ND | NT | NT | NT |
| | 11/18/15 | | | | ND | ND | ND | NT | ND | ND | Sealed | ND | Sealed | ND | ND | ND | ND | ND | ND | NT | NT | ND |
| | 04/25/16 | | | | NT | NT | NT | NT | NT | NT | Sealed | NT | Sealed | NT | NT | NT | NT | NT | ND | NT | NT | NT |
| | 06/16/16 | | | | ND | ND | ND | NT | ND | ND | Sealed | ND | Sealed | ND | ND | ND | ND | ND | ND | NT | NT | ND |
| | 08/17/16 | | | | NT | NT | NT | NT | NT | NT | Sealed | NT | Sealed | NT | NT | NT | NT | NT | ND | NT | NT | NT |
| | 11/16/16 | | | | ND | ND | ND | NT | ND | ND | Sealed | ND | Sealed | ND | ND | ND | ND | ND | ND | NT | NT | ND |
| | 05/30/17 | | | | ND | ND | ND | NT | ND | ND | Sealed | ND | Sealed | ND | ND | ND | ND | ND | ND | NT | NT | ND |
| | 11/21/17 | | | | ND | ND | ND | NT | ND | ND | Sealed | ND | Sealed | ND | ND | ND | ND | ND | ND | NT | NT | ND |
| | 05/31/18 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | ND | ND | ND | ND | ND | ND | NT | NT | ND |
| | 10/31/18 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | ND | ND | ND | ND | ND | ND | NT | NT | ND |
| | 05/28/19 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | ND | Inaccessible | ND | ND | ND | ND | NT | NT | ND |
| | 10/15/19 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | ND | ND | ND | ND | ND | ND | NT | NT | ND |
| | 06/03/20 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | ND | Inaccessible | ND | ND | ND | ND | NT | NT | ND |
| | 10/07/20 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | Inaccessible | Inaccessible | ND | ND | ND | ND | NT | NT | ND |
| | 05/03/21 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | ND | ND | ND | ND | ND | ND | NT | NT | ND |
| | 11/09/21 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | Inaccessible | Inaccessible | ND | ND | ND | ND | NT | NT | ND |
| | 01/13/22 | | | | NT | NT | NT | Sealed | NT | NT | Sealed | NT | Sealed | ND | ND | NT | NT | NT | NT | NT | NT | NT |
| | 05/17/22 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | ND | ND | ND | ND | ND | ND | NT | NT | ND |
| | 10/17/22 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | ND | ND | ND | ND | ND | ND | NT | NT | ND |
| | 05/22/23** | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | ND | ND | ND | ND | ND | ND | NT | NT | ND |
| | 10/5/23*** | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | NT | NT | ND | ND | ND | ND | NT | NT | ND |
| | 05/20/24 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | NT | NT | ND | ND | ND | ND | NT | NT | ND |
| | 10/02/24 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | Inaccessible | NT | ND | ND | ND | ND | NT | NT | ND |
| | 05/12/25 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | ND | ND | ND | ND | ND | ND | NT | NT | ND |
| | 10/14/25 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | Inaccessible | Sealed | ND | ND | ND | ND | ND | ND | ND |
| | 11/24/25 | | | | NT | NT | NT | Sealed | NT | NT | NT | NT | Sealed | ND | Sealed | NT | NT | NT | NT | ND | NT | NT |
| | 12/22/25 | | | | NT | NT | NT | Sealed | NT | NT | NT | NT | Sealed | NT | Sealed | NT | NT | NT | NT | ND | NT | NT |
| Thallium | 04/29/08 | 2 | 2 | µg/L | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND | NT |
| | 05/22/08 | | (2) | | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND | NT |
| | 06/18/08 | | | | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND | NT |
| | 08/13/08 | | | | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND | NT |
| | 09/24/08 | | | | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND | NT |
| | 04/27/09 | | | | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | ND | NT |
| | 10/26/09 | | | | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | NT |
| | 11/23/09 | | | | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND | ND | NT | NT | NT | NT | NT |
| | 12/17/09 | | | | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | NT |
| | 04/13/10 | | | | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | NT |
| | 05/18/10 | | | | NT | NT | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT |
| | 06/21/10 | | | | NT | NT | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT |
| | 07/09/10 | | | | NT | ND | NT | NT | ND | NT | NT | ND | NT | NT | NT | ND | ND | NT | NT | NT | ND | NT |
| | 08/18/10 | | | | NT | NT | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT |
| | 10/18/10 | | | | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | NT |
| | 05/10/11 | | | | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | NT |
| | 10/19/11 | | | | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | Dry | NT |
| | 04/24/12 | | | | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | NT |
| | 08/06/12 | | | | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND | NT | NT | NT | NT |
| | 10/25/12* | | | | ND | ND | ND | NT | ND | ND | ND | dry | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND* |
| | 05/07/13 | | | | NT | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND |
| | 11/11/13 | | | | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND |
| | 05/13/14 | | | | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND |
| | 11/12/14 | | | | ND | ND | ND | NT | ND | ND | Sealed | ND | Sealed | ND | ND | frozen | frozen | ND | ND | NT | NT | ND |
| | 03/18/15 | | | | NT | NT | NT | NT | NT | NT | Sealed | NT | Sealed | NT | NT | NT | NT | NT | ND | NT | NT | NT |
| | 05/27/15 | | | | NT | ND | ND | NT | ND | ND | Sealed | ND | Sealed | ND | ND | ND | ND | ND | ND | NT | NT | ND |
| | 08/20/15 | | | | NT | NT | NT | NT | NT | NT | Sealed | NT | Sealed | NT | NT | NT | NT | NT | ND | NT | NT | NT |
| | 11/18/15 | | | | ND | ND | ND | NT | ND | ND | Sealed | ND | Sealed | ND | ND | ND | ND | ND | ND | NT | NT | ND |
| | 04/25/16 | | | | NT | NT | NT | NT | NT | NT | Sealed | NT | Sealed | NT | NT | NT | NT | NT | ND | NT | NT | NT |
| | 06/16/16 | | | | ND | ND | ND | NT | ND | ND | Sealed | ND | Sealed | ND | ND | ND | ND | ND | ND | NT | NT | ND |
| | 08/17/16 | | | | NT | NT | NT | NT | NT | NT | Sealed | NT | Sealed | NT | NT | NT | NT | NT | ND | NT | NT | NT |
| | 11/16/16 | | | | ND | ND | ND | NT | ND | ND | Sealed | ND | Sealed | ND | ND | ND | ND | ND | ND | NT | NT | ND |
| | 05/30/17 | | | | ND | ND | ND | NT | ND | ND | Sealed | ND | Sealed | ND | ND | ND | ND | ND | ND | NT | NT | ND |
| | 11/21/17 | | | | ND | ND | ND | NT | ND | ND | Sealed | ND | Sealed | ND | ND | ND | ND | ND | ND | NT | NT | ND |
| | 05/31/18 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | ND | ND | ND | ND | ND | ND | NT | NT | ND |
| | 10/31/18 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | ND | ND | ND | ND | ND | ND | NT | NT | ND |
| | 05/28/19 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | ND | Inaccessible | ND | ND | ND | ND | NT | NT | ND |
| | 10/15/19 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | ND | ND | ND | ND | ND | ND | NT | NT | ND |
| | 06/03/20 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | ND | Inaccessible | ND | ND | ND | ND | NT | NT | ND |
| | 10/07/20 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | Inaccessible | Inaccessible | ND | ND | ND | ND | NT | NT | ND |
| | 05/03/21 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | ND | ND | ND | ND | ND | ND | NT | NT | ND |
| | 11/09/21 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | 2.44 | Sealed | Inaccessible | Inaccessible | ND | ND | ND | ND | NT | NT | ND |
| | 01/13/22 | | | | NT | NT | NT | Sealed | NT | NT | Sealed | ND | Sealed | ND | ND | NT | NT | NT | NT | NT | NT | NT |
| | 05/17/22 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | ND | ND | ND | ND | ND | ND | NT | NT | ND |
| | 10/17/22 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | ND | ND | ND | ND | ND | ND | NT | NT | ND |
| | 05/22/23** | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | ND | ND | ND | ND | ND | ND | NT | NT | ND |
| | 10/5/23*** | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | NT | NT | ND | ND | ND | ND | NT | NT | ND |
| | 05/20/24 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | NT | NT | ND | ND | ND | ND | NT | NT | ND |
| | 10/02/24 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | Inaccessible | NT | ND | ND | ND | ND | NT | NT | ND |
| | 05/12/25 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | ND | ND | ND | ND | ND | ND | NT | NT | ND |
| | 10/14/25 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | Inaccessible | Sealed | ND | ND | ND | ND | ND | ND | ND |
| | 11/24/25 | | | | NT | NT | NT | Sealed | NT | NT | Sealed | NT | Sealed | ND | Sealed | NT | NT | NT | NT | ND | NT | NT |
| | 12/22/25 | | | | NT | NT | NT | Sealed | NT | NT | Sealed | NT | Sealed | NT | Sealed | NT | NT | NT | NT | ND | NT | NT |

# Table 6 - Semi-Annual Detection Monitoring Metals Results (2008-Present)

Dickinson Landifll - Spirit Lake, Iowa
Permit No. 30-SDP-01-75P

| Detection Parameters (IDNR) [1] | Date | RL | MCL [2] | Units | MW-11A | MW-12A | MW-13A | MW-18A | MW-19A | MW-21A | MW-22 | MW-23A | MW-29 | MW-34A | MW-36A | MW-37A | MW-38A | MW-39A | MW-40A | MW-41A | GU-B/C | GW Holding Pond |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Vanadium | 04/29/08 | 0.02 | na | mg/L | ND | ND | ND | ND | 0.022 | ND | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT |
| | 05/22/08 | | (0.049) | | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT |
| | 06/18/08 | | | | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND | NT |
| | 08/13/08 | | | | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND | NT |
| | 09/24/08 | | | | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND | NT |
| | 04/27/09 | | | | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | ND | NT |
| | 10/26/09 | | | | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | NT |
| | 11/23/09 | | | | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND | ND | NT | NT | NT | NT | NT |
| | 12/17/09 | | | | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | NT |
| | 04/13/10 | | | | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | NT |
| | 05/18/10 | | | | NT | NT | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT |
| | 06/21/10 | | | | NT | NT | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT |
| | 07/09/10 | | | | NT | ND | NT | NT | ND | NT | NT | ND | NT | NT | NT | ND | ND | NT | NT | NT | ND | NT |
| | 08/18/10 | | | | NT | NT | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT |
| | 10/18/10 | | | | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | NT |
| | 05/10/11 | | | | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | NT |
| | 10/19/11 | | | | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | Dry | NT |
| | 04/24/12 | | | | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | NT |
| | 08/06/12 | | | | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND | NT | NT | NT | NT |
| | 10/25/12* | | | | 0.055 | ND | ND | NT | ND | ND | ND | dry | ND | ND | ND | ND | ND | 0.05 | NT | NT | NT | ND* |
| | 05/07/13 | | | | NT | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND |
| | 11/11/13 | | | | ND | ND | ND | NT | ND | ND | ND | 0.17 | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND |
| | 05/13/14 | | | | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND |
| | 11/12/14 | | | | ND | ND | ND | NT | ND | ND | Sealed | ND | Sealed | ND | ND | frozen | frozen | ND | ND | NT | NT | ND |
| | 03/18/15 | | | | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | 0.02 | NT | NT | NT |
| | 05/27/15 | | | | NT | ND | ND | NT | ND | ND | Sealed | ND | Sealed | ND | ND | ND | ND | ND | ND | NT | NT | ND |
| | 08/20/15 | | | | NT | NT | NT | NT | NT | NT | Sealed | NT | Sealed | NT | NT | NT | NT | NT | ND | NT | NT | NT |
| | 11/18/15 | | | | 0.033 | ND | ND | NT | ND | ND | Sealed | ND | Sealed | ND | ND | ND | ND | ND | ND | NT | NT | ND |
| | 04/25/16 | | | | NT | NT | NT | NT | NT | NT | Sealed | NT | Sealed | NT | NT | NT | NT | NT | ND | NT | NT | NT |
| | 06/16/16 | | | | ND | ND | ND | NT | ND | ND | Sealed | ND | Sealed | ND | ND | ND | ND | ND | ND | NT | NT | ND |
| | 08/17/16 | | | | NT | NT | NT | NT | NT | NT | Sealed | NT | Sealed | NT | NT | NT | NT | NT | ND | NT | NT | NT |
| | 11/16/16 | | | | ND | ND | ND | NT | ND | ND | Sealed | ND | Sealed | ND | ND | ND | ND | ND | ND | NT | NT | ND |
| | 05/30/17 | | | | ND | ND | ND | NT | ND | ND | Sealed | ND | Sealed | ND | ND | ND | ND | ND | ND | NT | NT | ND |
| | 11/21/17 | | | | ND | ND | ND | NT | ND | ND | Sealed | ND | Sealed | ND | ND | ND | ND | ND | ND | NT | NT | ND |
| | 05/31/18 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | ND | ND | ND | ND | ND | ND | NT | NT | ND |
| | 10/31/18 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | ND | ND | ND | ND | ND | ND | NT | NT | ND |
| | 05/28/19 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | ND | Inaccessible | ND | ND | ND | ND | NT | NT | ND |
| | 10/15/19 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | ND | ND | ND | ND | ND | ND | NT | NT | ND |
| | 06/03/20 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | ND | Inaccessible | ND | ND | ND | ND | NT | NT | ND |
| | 10/07/20 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | Inaccessible | Inaccessible | ND | ND | ND | ND | NT | NT | ND |
| | 05/03/21 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | ND | ND | ND | ND | ND | ND | NT | NT | ND |
| | 11/09/21 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | Inaccessible | Inaccessible | ND | ND | ND | ND | NT | NT | ND |
| | 01/13/22 | | | | NT | NT | NT | Sealed | NT | NT | Sealed | NT | Sealed | ND | ND | NT | NT | NT | NT | NT | NT | NT |
| | 05/17/22 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | ND | ND | ND | ND | ND | ND | NT | NT | ND |
| | 10/17/22 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | ND | ND | ND | ND | ND | ND | NT | NT | ND |
| | 05/22/23** | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | ND | ND | ND | ND | ND | ND | NT | NT | ND |
| | 10/5/23*** | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | NT | NT | ND | ND | ND | ND | NT | NT | ND |
| | 05/20/24 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | NT | NT | ND | ND | ND | ND | NT | NT | ND |
| | 10/02/24 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | Inaccessible | NT | ND | ND | ND | ND | NT | NT | ND |
| | 05/12/25 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | ND | ND | ND | ND | ND | ND | NT | NT | ND |
| | 10/14/25 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | Inaccessible | Sealed | ND | ND | ND | ND | ND | ND | ND |
| | 11/24/25 | | | | NT | NT | NT | Sealed | NT | NT | Sealed | NT | Sealed | ND | Sealed | NT | NT | NT | NT | ND | NT | NT |
| | 12/22/25 | | | | NT | NT | NT | Sealed | NT | NT | Sealed | NT | Sealed | NT | Sealed | NT | NT | NT | NT | ND | NT | NT |
| Zinc | 04/29/08 | 0.02 | na | mg/L | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT |
| | 05/22/08 | | (2) | | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT |
| | 06/18/08 | | | | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | 0.044 | NT |
| | 08/13/08 | | | | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND | NT |
| | 09/24/08 | | | | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND | NT |
| | 04/27/09 | | | | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | 0.665 | NT |
| | 10/26/09 | | | | 0.034 | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | NT |
| | 11/23/09 | | | | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND | ND | NT | NT | NT | NT | NT |
| | 12/17/09 | | | | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | 0.126 | NT |
| | 04/13/10 | | | | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | 1.53 | NT |
| | 05/18/10 | | | | NT | NT | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT |
| | 06/21/10 | | | | NT | NT | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT |
| | 07/09/10 | | | | NT | ND | NT | NT | ND | NT | NT | ND | NT | NT | NT | ND | ND | NT | NT | NT | ND | NT |
| | 08/18/10 | | | | NT | NT | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT |
| | 10/18/10 | | | | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | NT |
| | 05/10/11 | | | | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | NT |
| | 10/19/11 | | | | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | Dry | NT |
| | 04/24/12 | | | | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | 0.062 | NT |
| | 08/06/12 | | | | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND | NT | NT | NT | NT |
| | 10/25/12* | | | | 0.052 | ND | ND | NT | ND | ND | ND | dry | ND | ND | ND | ND | ND | 0.055 | NT | NT | NT | ND* |
| | 05/07/13 | | | | NT | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND |
| | 11/11/13 | | | | ND | ND | ND | NT | ND | ND | ND | 0.17 | ND | ND | ND | 0.024 | ND | ND | NT | NT | NT | ND |
| | 05/13/14 | | | | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND |
| | 11/12/14 | | | | 0.026 | ND | ND | NT | ND | ND | Sealed | ND | Sealed | ND | ND | frozen | frozen | ND | 0.025 | NT | NT | ND |
| | 03/18/15 | | | | NT | NT | NT | NT | NT | NT | Sealed | NT | Sealed | NT | NT | NT | NT | NT | 0.027 | NT | NT | NT |
| | 05/27/15 | | | | NT | ND | ND | NT | ND | ND | Sealed | ND | Sealed | ND | ND | ND | ND | ND | ND | NT | NT | ND |
| | 08/20/15 | | | | NT | NT | NT | NT | NT | NT | Sealed | NT | Sealed | NT | NT | NT | NT | NT | ND | NT | NT | NT |
| | 11/18/15 | | | | 0.032 | ND | ND | NT | ND | ND | Sealed | ND | Sealed | ND | ND | ND | ND | ND | ND | NT | NT | ND |
| | 04/25/16 | | | | NT | NT | NT | NT | NT | NT | Sealed | NT | Sealed | NT | NT | NT | NT | NT | ND | NT | NT | NT |
| | 06/16/16 | | | | ND | ND | ND | NT | ND | ND | Sealed | ND | Sealed | ND | ND | ND | ND | ND | ND | NT | NT | ND |
| | 08/17/16 | | | | NT | NT | NT | NT | NT | NT | Sealed | NT | Sealed | NT | NT | NT | NT | NT | ND | NT | NT | NT |
| | 11/16/16 | | | | ND | ND | ND | NT | ND | ND | Sealed | ND | Sealed | ND | ND | ND | ND | ND | ND | NT | NT | ND |
| | 05/30/17 | | | | ND | ND | ND | NT | ND | ND | Sealed | ND | Sealed | ND | ND | ND | ND | ND | ND | NT | NT | ND |
| | 11/21/17 | | | | ND | ND | ND | NT | ND | ND | Sealed | ND | Sealed | ND | ND | ND | ND | ND | ND | NT | NT | ND |
| | 05/31/18 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | ND | ND | ND | ND | ND | ND | NT | NT | ND |
| | 10/31/18 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | ND | ND | ND | ND | ND | ND | NT | NT | ND |
| | 05/28/19 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | ND | Inaccessible | ND | ND | ND | ND | NT | NT | ND |

## Table 6 - Semi-Annual Detection Monitoring Metals Results (2008-Present)

Dickinson Landifll - Spirit Lake, Iowa
Permit No. 30-SDP-01-75P

| Detection Parameters (IDNR) [1] | Date | RL | MCL [2] | Units | MW-11A | MW-12A | MW-13A | MW-18A | MW-19A | MW-21A | MW-22 | MW-23A | MW-29 | MW-34A | MW-36A | MW-37A | MW-38A | MW-39A | MW-40A | MW-41A | GU-B/C | GW Holding Pond |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Zinc | 10/15/19 | 0.02 | (2) | mg/L | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | ND | ND | ND | ND | ND | ND | NT | NT | ND |
| | 06/03/20 | *0.05* | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | ND | Inaccessible | ND | ND | ND | ND | NT | NT | ND |
| | 10/07/20 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | Inaccessible | Inaccessible | ND | ND | ND | ND | NT | NT | ND |
| | 05/03/21 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | ND | ND | ND | ND | ND | ND | NT | NT | ND |
| | 11/09/21 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | Inaccessible | Inaccessible | ND | ND | ND | ND | NT | NT | ND |
| | 01/13/22 | | | | NT | NT | NT | Sealed | NT | NT | Sealed | NT | Sealed | ND | ND | NT | NT | NT | NT | NT | NT | NT |
| | 05/17/22 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | ND | ND | ND | ND | ND | ND | NT | NT | ND |
| | 10/17/22 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | ND | ND | ND | ND | ND | ND | NT | NT | ND |
| | 05/22/23** | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | ND | ND | ND | ND | ND | ND | NT | NT | ND |
| | 10/5/23*** | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | NT | NT | ND | ND | ND | ND | NT | NT | ND |
| | 05/20/24 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | NT | NT | ND | ND | ND | ND | NT | NT | ND |
| | 10/02/24 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | Inaccessible | NT | ND | ND | ND | ND | NT | NT | ND |
| | 05/12/25 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | ND | ND | ND | ND | ND | ND | NT | NT | ND |
| | 10/14/25 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | Inaccessible | Sealed | ND | ND | ND | ND | ND | ND | ND |
| | 11/24/25 | | | | NT | NT | NT | Sealed | NT | NT | Sealed | NT | Sealed | ND | Sealed | NT | NT | NT | NT | ND | NT | NT |
| | 12/22/25 | | | | NT | NT | NT | Sealed | NT | NT | Sealed | NT | Sealed | NT | Sealed | NT | NT | NT | NT | ND | NT | NT |
| Total Suspended Solids (TSS) | 06/16/16 | 2 | na | mg/L | 8.8 | 28.7 | ND | NT | 18.4 | ND | Sealed | 5.2 | Sealed | ND | ND | 81.0 | ND | 32.4 | 11.2 | NT | NT | 4.4 |
| | 08/17/16 | | | | NT | NT | NT | NT | NT | NT | Sealed | NT | Sealed | NT | NT | NT | NT | NT | 14.0 | NT | NT | NT |
| | 11/16/16 | | | | 8.0 | 19.2 | ND | NT | 5.6 | ND | Sealed | ND | Sealed | ND | ND | 37.6 | 7.6 | 61.2 | 8.8 | NT | NT | 19.2 |
| | 05/30/17 | | | | 6.8 | 13.2 | ND | NT | 6.4 | ND | Sealed | 2.4 | Sealed | ND | ND | 50.0 | 4.4 | 65.6 | 7.6 | NT | NT | 7.2 |
| | 11/21/17 | | | | 12.4 | 15.2 | ND | NT | 12.4 | ND | Sealed | ND | Sealed | 32.4 | ND | 31.2 | 5.6 | 20.8 | 6 | NT | NT | 5.6 |
| | 05/31/18 | | | | ND | 12 | ND | Sealed | 7.2 | ND | Sealed | 4 | Sealed | 3.2 | 2.8 | 21.6 | 3.6 | 14 | ND | NT | NT | ND |
| | 10/31/18 | | | | 4.4 | 12.0 | ND | Sealed | 24.0 | ND | Sealed | ND | Sealed | 40.8 | ND | 56.4 | 35.6 | 98.0 | 4.4 | NT | NT | 33.6 |
| | 05/28/19 | | | | 3.2 | 29.6 | ND | Sealed | 24.4 | ND | Sealed | 10.4 | Sealed | 38 | Inaccessible | 55.2 | 18.8 | 60.4 | 6.4 | NT | NT | 75.6 |
| | 10/15/19 | | | | 35.2 | 17.6 | ND | Sealed | 10.4 | ND | Sealed | 10.8 | Sealed | 46.8 | 2.0 | 15.6 | ND | 13.2 | 2.4 | NT | NT | 2.4 |
| | 06/03/20 | *2.5* | | | 6.4 | 20.0 | ND | Sealed | 17.0 | ND | Sealed | 8.2 | Sealed | 33.8 | Inaccessible | 65.3 | 13.0 | 24.7 | 13.2 | NT | NT | ND |
| | 10/07/20 | | | | 11.7 | 13.5 | ND | Sealed | 20.4 | ND | Sealed | 3.7 | Sealed | Inaccessible | Inaccessible | 455 | 4.3 | 32.4 | 91.6 | NT | NT | 11.4 |
| | 05/03/21 | | | | 7.7 | 23.2 | ND | Sealed | 16.2 | 4.1 | Sealed | 14.5 | Sealed | 5.9 | 71.4 | 73 | ND | 5.5 | 28.8 | NT | NT | 3.5 |
| | 5/3/21 (2) | | | | NT | NT | NT | Sealed | NT | NT | Sealed | NT | Sealed | NT | NT | 76.1 | NT | NT | NT | NT | NT | NT |
| | 11/09/21 | | | | 32.6 | 13.7 | ND | Sealed | 28.3 | ND | Sealed | 8.4 | Sealed | Inaccessible | Inaccessible | 54.9 | 3 | 54.7 | 18.9 | NT | NT | 3.8 |
| | 01/13/22 | | | | NT | NT | NT | Sealed | NT | NT | Sealed | NT | Sealed | ND | ND | NT | NT | NT | NT | NT | NT | NT |
| | 05/17/22 | | | | 5.6 | 26 | ND | Sealed | 19.9 | ND | Sealed | 4.1 | Sealed | 69.8 | 6.1 | 69.5 | 4.6 | 35 | 43.1 | NT | NT | 13.8 |
| | 10/17/22 | | | | 23.5 | 26.8 | ND | Sealed | 40.4 | ND | Sealed | 5.6 | Sealed | 133 | 5.1 | 64 | 8.3 | 18.8 | 62.5 | NT | NT | 3.4 |
| | 05/22/23** | | | | 4.1 | 33.3 | 29.6 | Sealed | 12.2 | ND | Sealed | 11.1 | Sealed | 63.8 | 4.1 | 62.6 | 5.4 | 49.7 | ND | NT | NT | 51.8 |
| | 10/5/23*** | | | | 26.9 | 13.6 | 11 | Sealed | 15.4 | ND | Sealed | 12 | Sealed | NT | NT | 151 | 319 | 29.3 | 168 | NT | NT | 18 |
| | 05/20/24 | | | | 3.8 | 30.4 | 10 | Sealed | 20.3 | 3.3 | Sealed | 34.2 | Sealed | NT | NT | 76.4 | 4.9 | 31.3 | 6.3 | NT | NT | 6.2 |
| | 10/02/24 | | | | 3.7 | 12.8 | 5.81 | Sealed | 39 | 2.5 | Sealed | 17 | Sealed | Inaccessible | NT | 86 | 23.4 | 12.4 | 6.8 | NT | NT | 5.9 |
| | 05/12/25 | | | | 3.6 | 12.8 | 15.6 | Sealed | 15.1 | <2.5 | Sealed | 23.8 | Sealed | 8.2 | 2.6 | 76 | <2.5 | 11.1 | 17.8 | NT | NT | 5.6 |
| | 10/14/25 | | | | 6 | 7.8 | 5.8 | Sealed | 5.1 | ND | Sealed | 12.2 | Sealed | Inaccessible | Sealed | 77 | ND | 4.8 | 19.2 | 128 | ND | 11.7 |
| | 11/24/25 | | | | NT | NT | NT | Sealed | NT | NT | Sealed | NT | Sealed | 7.9 | Sealed | NT | NT | NT | NT | 53.2 | NT | NT |
| | 12/22/25 | | | | NT | NT | NT | Sealed | NT | NT | Sealed | NT | Sealed | NT | Sealed | NT | NT | NT | NT | 24.3 | NT | NT |
| **Appendix II [3]** | | | | | | | | | | | | | | | | | | | | | | |
| Cyanide | 10/26/09 | 10 | 200 | µg/L | NT | ND | NT | NT | ND | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT |
| | 12/17/09 | | (200) | | NT | ND | NT | NT | ND | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT |
| | 07/09/10 | | | | NT | ND | NT | NT | ND | NT | NT | ND | NT | NT | NT | ND | ND | NT | NT | NT | NT | NT |
| | 08/18/10 | | | | NT | NT | NT | NT | NT | NT | NT | ND | NT | NT | NT | ND | ND | NT | NT | NT | NT | NT |
| | 10/18/10 | | | | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT |
| | 05/10/11 | | | | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT |
| | 10/19/11 | | | | NT | NT | NT | NT | NT | NT | ND | NT | ND | NT | NT | NT | NT | NT | NT | NT | NT | NT |
| | 05/07/13 | | | | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT |
| | 11/11/13 | | | | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT |
| | 05/13/14 | | | | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT |
| | 11/12/14 | | | | NT | NT | NT | NT | NT | NT | Sealed | NT | Sealed | NT | NT | NT | NT | NT | NT | NT | NT | NT |
| | 05/27/15 | | | | NT | NT | NT | NT | NT | NT | Sealed | NT | Sealed | NT | NT | NT | NT | NT | NT | NT | NT | NT |
| | 11/18/15 | | | | NT | NT | NT | NT | NT | NT | Sealed | NT | Sealed | NT | NT | NT | NT | NT | NT | NT | NT | NT |
| | 06/16/16 | | | | NT | ND | NT | NT | ND | NT | Sealed | ND | Sealed | ND | ND | ND | ND | NT | NT | NT | NT | NT |
| | 11/16/16 | | | | NT | NT | NT | NT | NT | NT | Sealed | NT | Sealed | NT | NT | NT | NT | NT | NT | NT | NT | NT |
| | 05/30/17 | | | | NT | NT | NT | NT | NT | NT | Sealed | NT | Sealed | NT | NT | NT | NT | NT | NT | NT | NT | NT |
| | 11/21/17 | | | | NT | NT | NT | NT | NT | NT | Sealed | NT | Sealed | NT | NT | NT | NT | NT | NT | NT | NT | NT |
| | 05/31/18 | | | | NT | NT | NT | Sealed | NT | NT | Sealed | NT | Sealed | NT | NT | NT | NT | NT | NT | NT | NT | NT |
| | 10/31/18 | | | | NT | NT | NT | Sealed | NT | NT | Sealed | NT | Sealed | NT | NT | NT | NT | NT | NT | NT | NT | NT |
| | 05/28/19 | | | | NT | NT | NT | Sealed | NT | NT | Sealed | NT | Sealed | NT | Inaccessible | NT | NT | NT | NT | NT | NT | NT |
| | 10/15/19 | | | | NT | NT | NT | Sealed | NT | NT | Sealed | NT | Sealed | NT | NT | NT | NT | NT | NT | NT | NT | NT |
| | 06/03/20 | | | | NT | NT | NT | Sealed | NT | NT | Sealed | NT | Sealed | NT | Inaccessible | NT | NT | NT | NT | NT | NT | NT |
| | 10/07/20 | | | | NT | NT | NT | Sealed | NT | NT | Sealed | NT | Sealed | Inaccessible | Inaccessible | NT | NT | NT | NT | NT | NT | NT |
| | 05/03/21 | | | | NT | ND | NT | Sealed | ND | NT | Sealed | ND | Sealed | NT | NT | ND | ND | NT | NT | NT | NT | NT |
| | 11/09/21 | | | | NT | NT | NT | Sealed | NT | NT | Sealed | NT | Sealed | Inaccessible | Inaccessible | NT | NT | NT | NT | NT | NT | NT |
| Mercury | 10/26/09 | 0.4 | 2 | µg/L | NT | ND | NT | NT | ND | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT |
| | 12/17/09 | | (2) | | NT | ND | NT | NT | ND | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT |
| | 07/09/10 | | | | NT | ND | NT | NT | ND | NT | NT | ND | NT | NT | NT | ND | ND | NT | NT | NT | NT | NT |
| | 08/18/10 | | | | NT | NT | NT | NT | NT | NT | NT | ND | NT | NT | NT | ND | ND | NT | NT | NT | NT | NT |
| | 10/18/10 | | | | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT |
| | 05/10/11 | | | | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT |
| | 10/19/11 | | | | NT | NT | NT | NT | NT | NT | ND | NT | ND | NT | NT | NT | NT | NT | NT | NT | NT | NT |
| | 05/07/13 | | | | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT |
| | 11/11/13 | | | | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT |
| | 05/13/14 | | | | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT |
| | 11/12/14 | | | | NT | NT | NT | NT | NT | NT | Sealed | NT | Sealed | NT | NT | NT | NT | NT | NT | NT | NT | NT |
| | 05/27/15 | | | | NT | NT | NT | NT | NT | NT | Sealed | NT | Sealed | NT | NT | NT | NT | NT | NT | NT | NT | NT |
| | 11/18/15 | | | | NT | NT | NT | NT | NT | NT | Sealed | NT | Sealed | NT | NT | NT | NT | NT | NT | NT | NT | NT |
| | 06/16/16 | | | | NT | ND | NT | NT | ND | NT | Sealed | ND | Sealed | NT | NT | ND | ND | NT | NT | NT | NT | NT |
| | 11/16/16 | | | | NT | NT | NT | NT | NT | NT | Sealed | NT | Sealed | NT | NT | NT | NT | NT | NT | NT | NT | NT |
| | 05/30/17 | | | | NT | NT | NT | NT | NT | NT | Sealed | NT | Sealed | NT | NT | NT | NT | NT | NT | NT | NT | NT |
| | 11/21/17 | | | | NT | NT | NT | NT | NT | NT | Sealed | NT | Sealed | NT | NT | NT | NT | NT | NT | NT | NT | NT |
| | 05/31/18 | | | | NT | NT | NT | Sealed | NT | NT | Sealed | NT | Sealed | NT | NT | NT | NT | NT | NT | NT | NT | NT |
| | 10/31/18 | | | | NT | NT | NT | Sealed | NT | NT | Sealed | NT | Sealed | NT | NT | NT | NT | NT | NT | NT | NT | NT |
| | 05/28/19 | | | | NT | NT | NT | Sealed | NT | NT | Sealed | NT | Sealed | NT | Inaccessible | NT | NT | NT | NT | NT | NT | NT |
| | 10/15/19 | | | | NT | NT | NT | Sealed | NT | NT | Sealed | NT | Sealed | NT | NT | NT | NT | NT | NT | NT | NT | NT |
| | 06/03/20 | | | | NT | NT | NT | Sealed | NT | NT | Sealed | NT | Sealed | NT | Inaccessible | NT | NT | NT | NT | NT | NT | NT |
| | 10/07/20 | | | | NT | NT | NT | Sealed | NT | NT | Sealed | NT | Sealed | Inaccessible | Inaccessible | NT | NT | NT | NT | NT | NT | NT |
| | 05/03/21 | | | | NT | ND | NT | Sealed | ND | NT | Sealed | ND | Sealed | NT | NT | ND | ND | NT | NT | NT | NT | NT |
| | 11/09/21 | | | | NT | NT | NT | Sealed | NT | NT | Sealed | NT | Sealed | Inaccessible | Inaccessible | NT | NT | NT | NT | NT | NT | NT |

# Table 6 - Semi-Annual Detection Monitoring Metals Results (2008-Present)

Dickinson Landifll - Spirit Lake, Iowa
Permit No. 30-SDP-01-75P

| Detection Parameters (IDNR) [1] | Date | RL | MCL [2] | Units | MW-11A | MW-12A | MW-13A | MW-18A | MW-19A | MW-21A | MW-22 | MW-23A | MW-29 | MW-34A | MW-36A | MW-37A | MW-38A | MW-39A | MW-40A | MW-41A | GU-B/C | GW Holding Pond |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sulfide | 10/26/09 | 1 | na | mg/L | NT | ND | NT | NT | ND | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT |
| | 12/17/09 | | | | NT | ND | NT | NT | ND | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT |
| | 07/09/10 | | | | NT | ND | NT | NT | ND | NT | NT | ND | NT | NT | NT | ND | ND | NT | NT | NT | NT | NT |
| | 08/18/10 | | | | NT | NT | NT | NT | NT | NT | NT | ND | NT | NT | NT | ND | ND | NT | NT | NT | NT | NT |
| | 10/18/10 | | | | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT |
| | 05/10/11 | | | | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT |
| | 10/19/11 | | | | NT | NT | NT | NT | NT | NT | ND | NT | ND | NT | NT | NT | NT | NT | NT | NT | NT | NT |
| | 05/07/13 | | | | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT |
| | 11/11/13 | | | | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT |
| | 05/13/14 | | | | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT |
| | 11/12/14 | | | | NT | NT | NT | NT | NT | NT | Sealed | NT | Sealed | NT | NT | NT | NT | NT | NT | NT | NT | NT |
| | 05/27/15 | | | | NT | NT | NT | NT | NT | NT | Sealed | NT | Sealed | NT | NT | NT | NT | NT | NT | NT | NT | NT |
| | 11/18/15 | | | | NT | NT | NT | NT | NT | NT | Sealed | NT | Sealed | NT | NT | NT | NT | NT | NT | NT | NT | NT |
| | 06/16/16 | | | | NT | ND | NT | NT | ND | NT | Sealed | ND | Sealed | NT | NT | ND | ND | NT | NT | NT | NT | NT |
| | 11/16/16 | | | | NT | NT | NT | NT | NT | NT | Sealed | NT | Sealed | NT | NT | NT | NT | NT | NT | NT | NT | NT |
| | 05/30/17 | | | | NT | NT | NT | NT | NT | NT | Sealed | NT | Sealed | NT | NT | NT | NT | NT | NT | NT | NT | NT |
| | 11/21/17 | | | | NT | NT | NT | NT | NT | NT | Sealed | NT | Sealed | NT | NT | NT | NT | NT | NT | NT | NT | NT |
| | 10/31/18 | | | | NT | NT | NT | Sealed | NT | NT | Sealed | NT | Sealed | NT | NT | NT | NT | NT | NT | NT | NT | NT |
| | 05/28/19 | | | | NT | NT | NT | Sealed | NT | NT | Sealed | NT | Sealed | NT | Inaccessible | NT | NT | NT | NT | NT | NT | NT |
| | 10/15/19 | | | | NT | NT | NT | Sealed | NT | NT | Sealed | NT | Sealed | NT | NT | NT | NT | NT | NT | NT | NT | NT |
| | 06/03/20 | | | | NT | NT | NT | Sealed | NT | NT | Sealed | NT | Sealed | NT | Inaccessible | NT | NT | NT | NT | NT | NT | NT |
| | 10/07/20 | | | | NT | NT | NT | Sealed | NT | NT | Sealed | NT | Sealed | Inaccessible | Inaccessible | NT | NT | NT | NT | NT | NT | NT |
| | 05/03/21 | | | | NT | ND | NT | Sealed | ND | NT | Sealed | ND | Sealed | NT | NT | ND | ND | NT | NT | NT | NT | NT |
| | 11/09/21 | | | | NT | NT | NT | Sealed | NT | NT | Sealed | NT | Sealed | Inaccessible | Inaccessible | NT | NT | NT | NT | NT | NT | NT |
| Tin | 10/26/09 | 20 | na | µg/L | NT | ND | NT | NT | ND | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT |
| | 12/17/09 | | (4,200) | | NT | ND | NT | NT | ND | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT |
| | 07/09/10 | | | | NT | ND | NT | NT | ND | NT | NT | ND | NT | NT | NT | ND | ND | NT | NT | NT | NT | NT |
| | 08/18/10 | | | | NT | NT | NT | NT | NT | NT | NT | ND | NT | NT | NT | ND | ND | NT | NT | NT | NT | NT |
| | 10/18/10 | | | | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT |
| | 05/10/11 | | | | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT |
| | 10/19/11 | | | | NT | NT | NT | NT | NT | NT | ND | NT | ND | NT | NT | NT | NT | NT | NT | NT | NT | NT |
| | 05/07/13 | | | | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT |
| | 11/11/13 | | | | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT |
| | 05/13/14 | | | | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT |
| | 11/12/14 | | | | NT | NT | NT | NT | NT | NT | Sealed | NT | Sealed | NT | NT | NT | NT | NT | NT | NT | NT | NT |
| | 05/27/15 | | | | NT | NT | NT | NT | NT | NT | Sealed | NT | Sealed | NT | NT | NT | NT | NT | NT | NT | NT | NT |
| | 11/18/15 | | | | NT | NT | NT | NT | NT | NT | Sealed | NT | Sealed | NT | NT | NT | NT | NT | NT | NT | NT | NT |
| | 06/16/16 | | | | NT | ND | NT | NT | ND | NT | Sealed | ND | Sealed | NT | NT | ND | ND | NT | NT | NT | NT | NT |
| | 11/16/16 | | | | NT | NT | NT | NT | NT | NT | Sealed | NT | Sealed | NT | NT | NT | NT | NT | NT | NT | NT | NT |
| | 05/30/17 | | | | NT | NT | NT | NT | NT | NT | Sealed | NT | Sealed | NT | NT | NT | NT | NT | NT | NT | NT | NT |
| | 11/21/17 | | | | NT | NT | NT | NT | NT | NT | Sealed | NT | Sealed | NT | NT | NT | NT | NT | NT | NT | NT | NT |
| | 05/31/18 | | | | NT | NT | NT | Sealed | NT | NT | Sealed | NT | Sealed | NT | NT | NT | NT | NT | NT | NT | NT | NT |
| | 10/31/18 | | | | NT | NT | NT | Sealed | NT | NT | Sealed | NT | Sealed | NT | NT | NT | NT | NT | NT | NT | NT | NT |
| | 05/28/19 | | | | NT | NT | NT | Sealed | NT | NT | Sealed | NT | Sealed | NT | Inaccessible | NT | NT | NT | NT | NT | NT | NT |
| | 10/15/19 | | | | NT | NT | NT | Sealed | NT | NT | Sealed | NT | Sealed | NT | NT | NT | NT | NT | NT | NT | NT | NT |
| | 06/03/20 | | | | NT | NT | NT | Sealed | NT | NT | Sealed | NT | Sealed | NT | Inaccessible | NT | NT | NT | NT | NT | NT | NT |
| | 10/07/20 | | | | NT | NT | NT | Sealed | NT | NT | Sealed | NT | Sealed | Inaccessible | Inaccessible | NT | NT | NT | NT | NT | NT | NT |
| | 05/03/21 | *50* | | | NT | ND | NT | Sealed | ND | NT | Sealed | ND | Sealed | NT | NT | ND | ND | NT | NT | NT | NT | NT |
| | 11/09/21 | | | | NT | NT | NT | Sealed | NT | NT | Sealed | NT | Sealed | Inaccessible | Inaccessible | NT | NT | NT | NT | NT | NT | NT |

**Notes:**

* GW Holding Pond Data collected on 12/4/12

[1] = Detection monitoring parameters per Appendix 1 of Chapter 567-113.15; metals results are total concentrations

[2] MCL - Federal Maximum Contaminant Level for drinking water supplies
Iowa Groundwater Protection Standard or GWPS for a protected groundwater sources listed below MCL in (parenthesis)

[3] = Additional inorganic parameters per Appendix II of Chapter 567-113.15

na = not applicable - Federal MCL not established for this parameter

ND = not detected at or above laborartory reporting limit

NT = not tested, sampling either not required, well not yet installed, or insufficient well volume

RL - laboratory reporting limit (RLs may vary dependant upon sample matrix and/or interference)

Unconfirmed detection - compound not detected above RL during resampling

Methods = from EPA publication SW-846 3rd edition; methods may change from those listed due to changes in technology, updates and additions to published methodology and when regulations require different methods.

** = Samples MW-12A, MW-13A, MW-21A, MW-23A, MW-37A collected on 6/8/2023

*** = Samples from MW38 collected on 10/23/2023

[0.0342] = Holding Pond Dissolved Nickel Result 11/12/2024

(2) = MW-37A extended purge sample results 5/3/21

(01)(02) = Two samples collected from Holding Pond on 7/28/22 for arsenic and nickel analysis for confirmation/verification purposes

# Table 7 - Major Ion Data (2008-Present)

Dickinson Landfill - Spirit Lake, Iowa

Permit No. 30-SDP-01-75P

| Parameter | Date | Units | MCL [2] | RL | MW-11A | MW-12A | MW-13A | MW-19A | MW-21A | MW-23A | MW-34A | MW-36A | MW-37A | MW-38A | MW-39A | MW-40A | SW-1 | GU-B&GU-C | Holding Pond | Leachate |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *Cations* | | | | | | | | | | | | | | | | | | | | |
| Calcium | 04/29/08 | mg/L | na | 0.5 | 113 | 207 | 89.6 | 123 | 93.6 | NT | NT | NT | NT | NT | NT | NT | 89.6 | 161 | NT | 459 |
| | 09/24/08 | | | | 113 | 196 | 91.1 | 127 | 97.2 | NT | NT | NT | NT | NT | NT | NT | Dry | 156 | NT | 256 |
| | 10/26/09 | | | | 113 | 203 | 93.3 | 118 | 96.8 | 117 | 167 | 144 | 187 | 113 | NT | NT | Dry | 162 | NT | 169 |
| | 04/13/10 | | | | 105 | 176 | 89.5 | 120 | 93.2 | 109 | 160 | 141 | 157 | 127 | NT | NT | NT | 146 | NT | 120 |
| | 05/10/11 | | | | 105 | 174 | 98 | 124 | 92.9 | 105 | 163 | 139 | 158 | 126 | NT | NT | 91.5 | 153 | NT | 75.9 |
| | 04/24/12 | | | | 113 | 185 | 94.9 | 121 | 91.6 | 138 | 162 | 143 | 174 | 133 | NT | NT | 116 | 165 | NT | 23.2 |
| | 08/06/12 | | | | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | 138 | NT | NT | NT | NT | NT |
| | 05/07/13 | | | | dry | 194 | 113 | 115 | 89 | 124 | 157 | 143 | 183 | 139 | 148 | NT | NT | NT | 114 | 31.9 |
| | 05/13/14 | | | | dry | 189 | 101 | 139 | 94.9 | 129 | 155 | 153 | 188 | 145 | 143 | NT | NT | NT | 20.3 | 18.5 |
| | 05/27/15 | | | | dry | 161 | 80.9 | 91.9 | 71 | 167 | 162 | 134 | 164 | 138 | 135 | 85.3 | NT | NT | 48.1 | 28.5 |
| | 06/16/16 | | | | 98.2 | 180 | 103 | 148 | 101 | 209 | 117 | 157 | 152 | 158 | 117 | 103 | NT | NT | 35.9 | 50.5 |
| | 05/30/17 | | | | 98.8 | 181 | 110 | 155 | 97.1 | 228 | 135 | 165 | 155 | 160 | 117 | 105 | NT | NT | 38.9 | 75.8 |
| | 05/31/18 | | | | 110 | 184 | 110 | 132 | 103 | 224 | 103 | 105 | 167 | 146 | 104 | 106 | NT | NT | 53.3 | 70.7 |
| | 05/28/19 | | | | 124 | 193 | 116 | 129 | 119 | 213 | 97.6 | Inaccessable | 195 | 152 | 102 | 100 | NT | NT | 42.3 | 64.4* |
| | 06/03/20 | | | 1 | 123 | 192 | 124 | 131 | 113 | 203 | 94.3 | Inaccessable | 221 | 163 | 92.4 | 99.7 | NT | NT | 50.1 | 78.6 |
| | 05/03/21 | | | | 132 | 200 | 127 | 119 | 105 | 187 | 172 | 134 | 245 (238)[3] | 152 | 133 | 105 | NT | NT | 45.8 | 65.2 |
| | 05/17/22 | | | | 131 | 191 | 121 | 118 | 99.5 | 172 | 107 | 86.4 | 211 | 150 | 113 | 98.1 | NT | NT | 60.4 | 52.9 |
| | 5/22/23** | | | | 125 | 198 | 148 | 115 | 105 | 182 | 89.5 | 93 | 243 | 143 | 89.2 | 91.1 | NT | NT | 68.8 | 57 |
| | 05/20/24 | | | | 117 | 212 | 152 | 126 | 107 | 185 | NT | NT | 295 | 152 | 85 | 90.5 | NT | NT | 45 | 58.1 |
| | 05/12/25 | | | | 132 | 201 | 128 | 169 | 126 | 150 | 258 | 223 | 318 | 159 | 123 | 101 | NT | NT | 81.5 | 69.4 |
| Magnesium - Total | 04/29/08 | mg/L | na | 0.2 | 41.8 | 75.1 | 32.4 | 35.8 | 35 | NT | NT | NT | NT | NT | NT | NT | 32.4 | 47.2 | NT | 183 |
| | 09/24/08 | | | | 42.0 | 72.1 | 33.4 | 36.2 | 37.1 | NT | NT | NT | NT | NT | NT | NT | Dry | 47.0 | NT | 315 |
| | 10/26/09 | | | | 41.5 | 74.7 | 34.3 | 34.7 | 37.3 | 36.6 | 46.5 | 37.9 | 65.5 | 33.0 | NT | NT | Dry | 49 | NT | 216 |
| | 04/13/10 | | | | 38.4 | 66.4 | 33.1 | 35.5 | 36.1 | 34.2 | 45.1 | 37.2 | 55.8 | 36.2 | NT | NT | NT | 39 | NT | 203 |
| | 05/10/11 | | | | 40.0 | 66 | 37 | 38 | 35.5 | 33.9 | 47.2 | 37.4 | 60.4 | 36.9 | NT | NT | 32.6 | 45.5 | NT | 233 |
| | 04/24/12 | | | | 41.4 | 69.6 | 36.1 | 37.2 | 34.1 | 44 | 45.5 | 38.2 | 66.1 | 39.3 | NT | NT | 38.5 | 47.8 | NT | 175 |
| | 08/06/12 | | | | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | 47.7 | NT | NT | NT | NT | NT |
| | 05/07/13 | | | | dry | 73.1 | 42.2 | 36.4 | 32.8 | 39.1 | 44.6 | 38.4 | 64.8 | 41.6 | 50.8 | NT | NT | NT | 36.1 | 131 |
| | 05/13/14 | | | | dry | 70.1 | 36.7 | 46.4 | 34.2 | 41 | 44.3 | 39.6 | 65.6 | 42.9 | 50.4 | NT | NT | NT | 20.3 | 86.6 |
| | 05/27/15 | | | | dry | 65.8 | 32.1 | 32.8 | 28.5 | 57.1 | 46.4 | 39.4 | 65.3 | 43.8 | 49.7 | 36.9 | NT | NT | 48.1 | 109 |
| | 06/16/16 | | | | 35.9 | 67.1 | 39.7 | 47.3 | 40.9 | 65.2 | 34.8 | 49.5 | 56.9 | 46.4 | 39.9 | 41.3 | NT | NT | 35.9 | 101 |
| | 05/30/17 | | | | 37.4 | 69.6 | 40.9 | 53.1 | 97.1 | 72.5 | 39.5 | 48.0 | 60.9 | 49.1 | 38.6 | 40.8 | NT | NT | 38.9 | 137 |
| | 05/31/18 | | | | 42.1 | 69..6 | 40.8 | 47 | 39.6 | 75.5 | 34.1 | 40.6 | 65.4 | 44.8 | 34.5 | 40.9 | NT | NT | 37.3 | 129 |
| | 05/28/19 | | | | 44.5 | 72.2 | 40.9 | 43.1 | 44.8 | 72.1 | 30.8 | Inaccessable | 72.6 | 45.1 | 31.9 | 37.1 | NT | NT | 22.3 | 164* |
| | 06/03/20 | | | 1 | 43.6 | 98.2 | 42.6 | 45.5 | 41.2 | 64.8 | 29.6 | Inaccessable | 80.0 | 48.4 | 29.1 | 36.4 | NT | NT | 38.2 | 172 |
| | 05/03/21 | | | | 43.7 | 69.3 | 41.9 | 40.7 | 36.1 | 57.9 | 43.8 | 42.0 | 86.4 (85.8)[3] | 44.9 | 41.2 | 37.5 | NT | NT | 40.0 | 168 |
| | 05/17/22 | | | | 45 | 67.7 | 40.4 | 41.2 | 34.6 | 54.6 | 33.6 | 31.7 | 75.5 | 45.7 | 35.9 | 35.7 | NT | NT | 40.2 | 139 |
| | 5/22/23** | | | | 43 | 74.5 | 52 | 40.9 | 39.8 | 61.2 | 27.9 | 33.5 | 93.1 | 43.8 | 28.5 | 33.1 | NT | NT | 39.9 | 156 |
| | 05/20/24 | | | | 41 | 76.6 | 52.4 | 47.6 | 38.7 | 62 | NT | NT | 110 | 49.3 | 27.2 | 34.1 | NT | NT | 56.1 | 147 |
| | 05/12/25 | | | | 46 | 72.1 | 42.4 | 61.6 | 45.4 | 47.2 | 70.1 | 55.9 | 119 | 48.3 | 38.6 | 36.4 | NT | NT | 46.2 | 161 |
| Potassium - Total | 04/29/08 | mg/L | na | 0.5 | 2.4 | 6.2 | 1.9 | 2.2 | 3.1 | NT | NT | NT | NT | NT | NT | NT | 1.9 | 5.8 | NT | 220 |
| | 09/24/08 | | | | 2.7 | 6.3 | 2.2 | 0.93 | 3.6 | NT | NT | NT | NT | NT | NT | NT | Dry | 6.1 | NT | 432 |
| | 10/26/09 | | | | 2.9 | 6.36 | 2.09 | 0.844 | 3.44 | 1.8 | 4.71 | 5.45 | 3.61 | 2.40 | NT | NT | Dry | 6.28 | NT | 416 |
| | 04/13/10 | | | | 2.37 | 5.36 | 1.86 | 0.761 | 2.66 | 1.45 | 4.65 | 4.64 | 1.76 | 0.595 | NT | NT | NT | 4.71 | NT | 308 |
| | 05/10/11 | | | | 2.7 | 6.2 | 2.3 | 1.1 | 3.7 | 1.4 | 5.0 | 4.7 | 1.8 | 0.92 | NT | NT | 1.9 | 6.2 | NT | 419 |
| | 04/24/12 | | | | 2.9 | 5.9 | 2.3 | 1.1 | 4.2 | 2.4 | 5.2 | 5 | 1.8 | 0.79 | NT | NT | 2 | 7.2 | NT | 366 |
| | 08/06/12 | | | | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | 3 | NT | NT | NT | NT | NT |
| | 05/07/13 | | | | dry | 5.5 | 2.3 | 0.76 | 4.2 | 2.8 | 5.0 | 4.7 | 2.2 | 0.83 | 2.3 | NT | NT | NT | 6.1 | 369 |
| | 05/13/14 | | | | dry | 5.8 | 1.9 | 1.5 | 3.8 | 2.1 | 4.8 | 4.4 | 1.9 | 1.9 | 2.2 | NT | NT | NT | 5.8 | 272 |
| | 05/27/15 | | | | dry | 5.4 | 1.8 | 0.7 | 3.5 | 2.4 | 5.7 | 4.7 | 2 | 1.2 | 1.8 | 2.8 | NT | NT | 5.2 | 365 |
| | 06/16/16 | | | | 2.7 | NT | 2.2 | NT | 3.2 | NT | 2.7 | 4.6 | NT | NT | 0.63 | 1.5 | NT | NT | 8.1 | 262 |
| | 05/30/17 | | | | 2.5 | 5.8 | 2.1 | 0.88 | 3.7 | 2.8 | 1.7 | 4.6 | 1.7 | 1.2 | 0.77 | 1.4 | NT | NT | 4.9 | 322 |
| | 05/31/18 | | | | 2.3 | 5.8 | 2.3 | 0.83 | 3.7 | 2.6 | 0.64 | 1.5 | 1.9 | 1.1 | 0.63 | 1.5 | NT | NT | 3.6 | 318 |
| | 05/28/19 | | | | 2.3 | 5.2 | 2.1 | 1.1 | 3.3 | 2.2 | 0.73 | Inaccessable | 1.9 | 0.97 | 0.65 | 1.3 | NT | NT | 4.3 | 392* |
| | 06/03/20 | | | 1 | 2.05 | 5.46 | 2.27 | ND | 3.55 | 2.26 | ND | Inaccessable | 2.01 | 1.07 | ND | 1.41 | NT | NT | 2.73 | 366 |
| | 05/03/21 | | | | 2.54 | 4.87 | 2.25 | ND | 3.84 | 2.20 | 4.42 | ND | 1.93 (2.18)[3] | ND | ND | 2.75 | NT | NT | 2.27 | 425 |
| | 05/17/22 | | | | 3 | 4.96 | 2.33 | ND | 3.79 | 2.14 | ND | 1.57 | 2.13 | ND | ND | 1.98 | NT | NT | 4.93 | 391 |
| | 5/22/23** | | | | 3 | 5.16 | 2.47 | ND | 3.8 | 2.69 | ND | 1.55 | 2.55 | 1.11 | ND | 1.51 | NT | NT | 6.37 | 410 |
| | 05/20/24 | | | | 3 | 4.13 | 2.86 | ND | 4.17 | 2.43 | NT | NT | 2.61 | ND | ND | 1.37 | NT | NT | 38.1 | 381 |
| | 05/12/25 | | | | 3 | 4.84 | 2.36 | 1.1 | 3.32 | 2.03 | 7.42 | 5.42 | 2.74 | 1.11 | <1 | 2.06 | NT | NT | 16.4 | 379 |

# Table 7 - Major Ion Data (2008-Present)

Dickinson Landfill - Spirit Lake, Iowa

Permit No. 30-SDP-01-75P

| Parameter | Date | Units | MCL [2] | RL | MW-11A | MW-12A | MW-13A | MW-19A | MW-21A | MW-23A | MW-34A | MW-36A | MW-37A | MW-38A | MW-39A | MW-40A | SW-1 | GU-B&GU-C | Holding Pond | Leachate |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sodium - Total | 04/29/08 | mg/L | na | 1 | 6.2 | 84.9 | 4.2 | 22.1 | 7.6 | NT | NT | NT | NT | NT | NT | NT | 4.2 | 9.0 | NT | 917 |
| | 09/24/08 | | | | 6.1 | 80.6 | 4.2 | 21.5 | 6.2 | NT | NT | NT | NT | NT | NT | NT | Dry | 8.8 | NT | 1990 |
| | 10/26/09 | | | | 5.7 | 78.1 | 4.3 | 16.9 | 5.9 | 10.9 | 8.4 | 6.6 | 32.7 | 13.4 | NT | NT | Dry | 9.3 | NT | 1880 |
| | 04/13/10 | | | | 9.0 | 92.8 | 4.1 | 15.9 | 5.9 | 8.6 | 8.5 | 6.2 | 27.6 | 12.4 | NT | NT | NT | 8.0 | NT | 1630 |
| | 05/10/11 | | | | 7.7 | 79.7 | 4.9 | 17.2 | 7.4 | 9.9 | 9.5 | 6.7 | 31.8 | 18.7 | NT | NT | 9.5 | 10.8 | NT | 2300 |
| | 04/24/12 | | | | 5.8 | 74.9 | 4.6 | 16.8 | 6.7 | 11.8 | 9.7 | 6.7 | 34.4 | 18.4 | NT | NT | 15.0 | 11.2 | NT | 2750 |
| | 08/06/12 | | | | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | 5.9 | NT | NT | NT | NT | NT |
| | 05/07/13 | | | | dry | 76.4 | 5.1 | 19.0 | 6.6 | 11.1 | 9.2 | 6.5 | 43.9 | 18.8 | 5.7 | NT | NT | NT | 11.4 | 2720 |
| | 05/13/14 | | | | dry | 64.9 | 4.2 | 17.4 | 5.9 | 10.2 | 8.7 | 6.1 | 40.2 | 16.8 | 5.5 | NT | NT | NT | 6.4 | 2050 |
| | 05/27/15 | | | | dry | 75.8 | 4.2 | 13.2 | 5.1 | 10.8 | 9.7 | 6.2 | 36.2 | 17.3 | 5.9 | 4.6 | NT | NT | 8.2 | 2410 |
| | 06/16/16 | | | | 15.0 | 78.2 | 5.3 | 17.2 | 10.0 | 14.4 | 7.6 | 8.0 | 34.1 | 18.3 | 5.4 | 4.9 | NT | NT | 27.2 | 1780 |
| | 05/30/17 | | | | 14.4 | 74.1 | 5.8 | 16.6 | 6.1 | 15.5 | 7.4 | 7.6 | 41.6 | 22.5 | 5.1 | 5.1 | NT | NT | 12.2 | 2270 |
| | 05/31/18 | | | | 12.2 | 73.2 | 5.3 | 14.2 | 6.0 | 16.2 | 4.8 | 5.1 | 50.5 | 20.1 | 4.9 | 5.0 | NT | NT | 18.6 | 1990 |
| | 05/28/19 | | | | 13.5 | 78.4 | 5.9 | 11.9 | 8.4 | 17.9 | 12.9 | Inaccessable | 59.2 | 19.1 | 12.0 | 5.9 | NT | NT | 13.5 | 2340* |
| | 06/03/20 | | | | 12.3 | 66.8 | 6.41 | 16.3 | 7.35 | 16.0 | 4.50 | Inaccessable | 51.0 | 21.9 | 4.43 | 5.30 | NT | NT | 29.5 | 2650 |
| | 05/03/21 | | | | 6.44 | 67.8 | 5.34 | 17.1 | 6.08 | 14.5 | 9.43 | 5.11 | 66.6 (67.7)[3] | 18.6 | 5.26 | 6.15 | NT | NT | 18.1 | 2420 |
| | 05/17/22 | | | | 6 | 65.2 | 5.73 | 18.9 | 5.91 | 13.1 | 4.65 | 4.48 | 74 | 19.5 | 4.83 | 4.56 | NT | NT | 27.9 | 2180 |
| | 5/22/23** | | | | 7 | 65.1 | 6.6 | 19.6 | 6.49 | 14 | 4.65 | 5.25 | 89.4 | 19.4 | 4.63 | 4.99 | NT | NT | 33.3 | 2190 |
| | 05/20/24 | | | | 19 | 64.4 | 7.15 | 21.7 | 6.36 | 13.1 | NT | NT | 121 | 20.2 | 4.42 | 5.59 | NT | NT | 114 | 2190 |
| | 05/12/25 | | | | 8 | 62.4 | 6.67 | 34.8 | 8.62 | 12.4 | 15.6 | 10.3 | 172 | 24.3 | 7.17 | 4.86 | NT | NT | 54.5 | 1910 |
| *Anions* | | | | | | | | | | | | | | | | | | | | |
| Alkalinity, Bicarb | 04/29/08 | mg/L | na | 25 | 169 | 745 | 170 | 316 | 311 | NT | NT | NT | NT | NT | NT | NT | NT | 389 | NT | 2570 |
| | 09/24/08 | | | | 360 | 932 | 401 | 460 | 332 | NT | NT | NT | NT | NT | NT | NT | Dry | 490 | NT | 5270 |
| | 10/26/09 | | | | 327 | 873 | 784 | 398 | 297 | 296 | 389 | 350 | 330 | 310 | NT | NT | Dry | 452 | NT | 3720 |
| | 04/13/10 | | | | 308 | 903 | 409 | 386 | 324 | 285 | 421 | 366 | 469 | 370 | NT | NT | NT | 547 | NT | 3770 |
| | 05/10/11 | | | | 315 | 882 | 355 | 383 | 350 | 315 | 408 | 385 | 520 | 346 | NT | NT | 372 | 497 | NT | 5580 |
| | 04/24/12 | | | | 312 | 769 | 358 | 357 | 339 | 364 | 298 | 351 | 564 | 413 | NT | NT | NT | 496 | NT | 4860 |
| | 08/06/12 | | | | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | 448 | NT | NT | NT | NT | NT |
| | 05/07/13 | | | | dry | 927 | 427 | 414 | 354 | 406 | 403 | 396 | 471 | 423 | 533 | NT | NT | NT | 37 | 6180 |
| | 05/13/14 | | | | dry | 822 | 358 | 413 | 343 | 419 | 410 | 397 | 516 | 455 | 525 | NT | NT | NT | 145 | 6610 |
| | 05/27/15 | | | | dry | 919 | 349 | 358 | 334 | 642 | 385 | 380 | 534 | 471 | 411 | 285 | NT | NT | 52.8 | 4670 |
| | 06/16/16 | | | | 326 | 873 | 423 | 531 | 386 | 783 | 242 | 393 | 398 | 531 | 327 | 344 | NT | NT | 62.3 | 2820 |
| | 05/30/17 | | | | 305 | 1000 | 400 | 414 | 352 | 786 | 296 | 355 | 326 | 449 | 350 | 316 | NT | NT | 253 | 4620 |
| | 05/31/18 | | | | 350 | 931 | 415 | 446 | 379 | 901 | 352 | 335 | 407 | 482 | 358 | 325 | NT | NT | 172 | 4570 |
| | 05/28/19 | | | | 349 | 854 | 380 | 397 | 281 | 469 | 318 | Inaccessable | 329 | 457 | 336 | 283 | NT | NT | 109 | 4170* |
| | 06/03/20 | | | 20 | 435 | 906 | 466 | 431 | 363 | 757 | 329 | Inaccessable | 472 | 542 | 316 | 366 | NT | NT | 226 | 4460 |
| | 05/03/21 | | | | 400 | 938 | 481 | 389 | 355 | 700 | 393 | 429 | 669 (655)[3] | 501 | 444 | 350 | NT | NT | 212 | 5100 |
| | 05/17/22 | | | | 410 | 914 | 452 | 378 | 343 | 678 | 354 | 309 | 564 | 508 | 385 | 343 | NT | NT | 217 | 4320 |
| | 5/22/23** | | | | 382 | 907 | 585 | 367 | 338 | 721 | 301 | 325 | 601 | 459 | 314 | 335 | NT | NT | 201 | 4280 |
| | 05/20/24 | | | | 396 | 934 | 531 | 436 | 353 | 734 | NT | NT | 534 | 472 | 293 | 350 | NT | NT | 386 | 3830 |
| | 05/12/25 | | | | 419 | 920 | 472 | 441 | 371 | 599 | 557 | 345 | 556 | 455 | 404 | 320 | NT | NT | 317 | 4160 |
| Chloride | 04/29/08 | mg/L | na | 0.5 | 36.4 | 17.4 | 9 | 19.6 | 6.5 | NT | NT | NT | NT | NT | NT | NT | NT | 13.2 | NT | 1030 |
| | 09/24/08 | | | | 28.5 | 16.9 | 21.68 | 23.0 | 6.2 | NT | NT | NT | NT | NT | NT | NT | Dry | 13.8 | NT | 2000 |
| | 10/26/09 | | | | 26.6 | 9.32 | 9.48 | 19.7 | 6.54 | 49.2 | 7.34 | 14.3 | 84.1 | 17.9 | NT | NT | Dry | 16.1 | NT | 1730 |
| | 04/13/10 | | | | 35.7 | 10.6 | 10.8 | 23.6 | 8.63 | 60.6 | 8.48 | 16.1 | 110 | 25.3 | NT | NT | NT | 20 | NT | 1370 |
| | 05/10/11 | | | | 32.3 | 14.5 | 14.3 | 22.5 | 7.9 | 55.9 | 8.4 | 16 | 129 | 21.4 | NT | NT | 14.2 | 18.5 | NT | 1840 |
| | 04/24/12 | | | | 27.2 | 15.2 | 11.7 | 23.6 | 6.1 | 5.8 | 5.6 | 15.3 | 127 | 22.2 | NT | NT | NT | 17.5 | NT | 1410 |
| | 08/06/12 | | | | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | 19.1 | NT | NT | NT | NT | NT |
| | 05/07/13 | | | | dry | 17.1 | 14.3 | 20.8 | 5.4 | 60.6 | 6.7 | 16.3 | 220 | 21.4 | 28.5 | NT | NT | NT | 17.8 | 1480 |
| | 05/13/14 | | | | dry | 19.7 | 13.6 | 31.8 | 7.1 | 66.8 | 7.5 | 14.8 | 210 | 21.7 | 26.2 | NT | NT | NT | 9.3 | 1900 |
| | 05/27/15 | | | | dry | 12.7 | 18.6 | 16.8 | 6.5 | 61.1 | 7.3 | 14.7 | 205 | 23 | 45.9 | 21.4 | NT | NT | 6.1 | 2070 |
| | 06/16/16 | | | | 27.1 | 12.8 | 27.1 | 12.0 | 14.5 | 54.9 | 5.4 | 11.8 | 215 | 25.4 | 74.2 | 31.5 | NT | NT | 34 | 1200 |
| | 05/30/17 | | | | 27.1 | 12.7 | 26.3 | 21.8 | 11.0 | 46.7 | 4.8 | 12.9 | 254 | 22.1 | 46.0 | 33.8 | NT | NT | 24.7 | 1500 |
| | 05/31/18 | | | | 32.4 | 12.5 | 22.1 | 19.2 | 14.0 | 27.7 | 17.8 | 24.8 | 294 | 26 | 19.1 | 26.3 | NT | NT | 39.8 | 1570 |
| | 05/28/19 | | | | 25.2 | 9.2 | 20.8 | 19.9 | 28.9 | 16.0 | 7.6 | Inaccessable | 326 | 16.8 | 8.6 | 15.3 | NT | NT | 27.2 | 1800* |
| | 06/03/20 | | | 1 | 21.1 | 10.4 | 25.0 | 34.4 | 27.4 | 29.3 | 10.9 | Inaccessable | 407 | 29.7 | 13.1 | 15.3 | NT | NT | 40.4 | 1640 |
| | 05/03/21 | | | | 28.6 | 11.2 | 24.2 | 28.7 | 17.0 | 29.4 | 6.61 | 31.7 | 313 (345)[3] | 30.1 | 30.5 | 19.0 | NT | NT | 30.2 | 1990 |
| | 05/17/22 | | | | 31 | 10.4 | 26.1 | 38.2 | 16.9 | 18.3 | 17.5 | 11.7 | 342 | 36.5 | 23.7 | 15.3 | NT | NT | 46.6 | 2030 |
| | 5/22/23** | | | | 26.2 | 11.3 | 26.5 | 32.6 | 19.1 | 10.4 | 10.5 | 9.83 | 394 | 27.3 | 13.3 | 9.2 | NT | NT | 51.1 | 1890 |
| | 05/20/24 | | | | 19 | 11.3 | 26.7 | 52.9 | 16 | 6.35 | NT | NT | 678 | 63.6 | 13.9 | 6.47 | NT | NT | 134 | 1800 |
| | 05/12/25 | | | | 28 | 12 | 27.5 | 76.4 | 33.4 | 8.72 | 8.3 | 95.9 | 753 | 59.8 | 22.8 | 9.59 | NT | NT | 73.8 | 1740 |

# Table 7 - Major Ion Data (2008-Present)

Dickinson Landfill - Spirit Lake, Iowa

Permit No. 30-SDP-01-75P

| Parameter | Date | Units | MCL [2] | RL | MW-11A | MW-12A | MW-13A | MW-19A | MW-21A | MW-23A | MW-34A | MW-36A | MW-37A | MW-38A | MW-39A | MW-40A | SW-1 | GU-B&GU-C | Holding Pond | Leachate |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sulfate | 04/29/08 | mg/L | na | 2 (10) | 35.9 | 57.4 | 14.6 | 61.3 | 35.1 | NT | NT | NT | NT | NT | NT | NT | NT | 112 | NT | 366 |
| | 09/24/08 | | | | 37.3 | 48.2 | 17.4 | 34.8 | 40.1 | NT | NT | NT | NT | NT | NT | NT | Dry | 106 | NT | ND |
| | 10/26/09 | | | | 37.1 | 19.5 | 19.3 | 20.4 | 36.3 | 38.8 | 203 | 122 | 106 | 105 | NT | NT | Dry | 116 | NT | ND |
| | 04/13/10 | | | | 38.2 | 25.2 | 24.5 | 57.8 | 38.2 | 43.4 | 233 | 138 | 89.7 | 114 | NT | NT | NT | 120 | NT | ND |
| | 05/10/11 | | | | 35.6 | 32.9 | 25.6 | 92 | 43.6 | 32.6 | 236 | 146 | 35.5 | 123 | NT | NT | 8.5 | 110 | NT | ND |
| | 04/24/12 | | | | 39.2 | 50.8 | 22.5 | 59.8 | 39.2 | ND | 236 | 146 | 59.6 | 76.2 | NT | NT | NT | 114 | NT | 20.5 |
| | 08/06/12 | | | | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | 43.1 | NT | NT | NT | NT | NT |
| | 05/07/13 | | | | dry | 56.5 | 34.1 | 70.1 | 40 | 33.7 | 226 | 146 | 42.4 | 132 | 50.5 | NT | NT | NT | 89.2 | 318 |
| | 05/13/14 | | | | dry | 49.7 | 22.6 | 98.2 | 43.3 | 33.1 | 198 | 166 | 39.1 | 96.8 | 60 | NT | NT | NT | 87.2 | 641 |
| | 05/27/15 | | | | dry | 22.4 | 22.7 | 80 | 42 | 24.5 | 206 | 161 | 35.9 | 88.4 | 46.1 | 39.9 | NT | NT | 475 | ND |
| | 06/16/16 | | | | 32.7 | 11.9 | 20.3 | 95.5 | 52.6 | 19.6 | 195 | 239 | 12.3 | 100 | 2.8 | 29.6 | NT | NT | 246 | 320 |
| | 05/30/17 | | | | 30.0 | 20.2 | 18.9 | 181 | 50.3 | 19.9 | 193 | 264 | ND | 128 | 3.6 | 47.4 | NT | NT | 81.3 | 463 |
| | 05/31/18 | | | | 34.1 | 24.4 | 17.6 | 95.5 | 54.7 | 12.6 | 3.4 | 48.7 | ND | 86.1 | 4.2 | 44.4 | NT | NT | 98.9 | 482 |
| | 05/28/19 | | | | 28.6 | ND | 10.4 | 77.9 | 63.7 | ND | ND | Inaccessable | ND | 76.5 | ND | 27.1 | NT | NT | 45.7 | 432* |
| | 06/03/20 | | | 5 | 23.5 | 16.4 | 12.6 | 76.5 | 62.5 | 8.76 | ND | Inaccessable | 10.4 | 78.8 | ND | 18.3 | NT | NT | 86.7 | 377 |
| | 05/03/21 | | | | 34.2 | 8.45 | 9.38 | 85.2 | 54.1 | 12.4 | 224 | 6.43 | 26.2 (17.9)[3] | 70.9 | 15.1 | 37.7 | NT | NT | 80.9 | 524 |
| | 05/17/22 | | | | 33 | 19.4 | 14.8 | 98.2 | 53 | 9.79 | ND | 22.5 | 24.8 | 81.1 | 5.38 | 26.6 | NT | NT | 105 | 464 |
| | 5/22/23** | | | | 31 | 6.33 | ND | 73 | 56.4 | 6.74 | ND | 23.7 | 11.8 | 85.1 | ND | 22 | NT | NT | 106 | 438 |
| | 05/20/24 | | | | 25 | 5.91 | 13.5 | 53.9 | 54.8 | 6.02 | NT | NT | 15.9 | 74.2 | ND | 14.9 | NT | NT | 85.4 | 528 |
| | 05/12/25 | | | | 33 | 19.9 | 12.5 | 189 | 80.8 | 5.47 | 388 | 292 | 13 | 104 | 7.32 | 20.7 | NT | NT | 96.5 | 705 |
| TDS (Lab) | 05/03/21 | mg/L | na | 10 | NT | NT | NT | NT | NT | NT | NT | NT | 1200 (1220)[3] | NT | NT | NT | NT | NT | NT | NT |

**Notes:**

[1] = major ion data collected at initiative of Dickinson Landfill for informational purposes

[2] MCL - Federal Maximum Contaminant Level, MCLs as listed in Iowa Chapter 113 .7(5) are listed in parenthesis

na = not applicable - Federal MCL not established for this parameter

NT = not tested, sampling either not required, well not yet installed, or insufficient well volume

RL - laboratory reporting limit (RLs may vary dependant upon sample matrix and/or interference)

*= Leachate sample collected July 11, 2019

** = Samples MW-12A, MW-13A, MW-21A, MW-23A, MW-37A collected on 6/8/2023

( )[3] = MW-37A Extended purge sample collected 5/3/21

Methods = from EPA publication SW-846 3rd edition; methods may change from those listed due to changes in technology, updates and additions to published methodology and when regulations require different methods.

# Table 8 - Semi-Annual Detection Monitoring VOC Detection Results (2008-Present)

Dickinson Landfill - Spirit Lake, Iowa

Permit No. 30-SDP-01-75P

| Detection Parameters (IDNR) [1] | Date | RL | MCL [2] | Units | MW-11A | MW-12A | MW-13A | MW-18A | MW-19A | MW-21A | MW-22 | MW-23A | MW-29 | MW-34A | MW-36A | MW-37A | MW-38A | MW-39A | MW-40A | SW-1 | MW-41A | GU-B&GU-C | GW Holding Pond | Blank |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethane | 04/24/08 | 1 | na | µg/L | ND | 120 | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND |
| | 05/22/08 | | (140) | | ND | 130 (140) | ND | ND | 2.3 | ND | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND |
| | 06/18/08 | | | | ND | 120 | ND | ND | 4.1 | ND | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND |
| | 08/13/08 | | | | ND | 120 | ND | ND | 2.7 | ND | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND |
| | 09/24/08 | | | | ND | 120 | ND | ND | 1.5 | ND | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND |
| | 04/27/09 | | | | ND | 110 | ND | NT | 2.2 | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | NT | NT | ND |
| | 10/26/09 | | | | ND | 94 (97) | ND | NT | 1.3 (1.4) | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | ND |
| | 11/23/09 | | | | ND | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND | ND | NT | NT | NT | NT | NT | NT | NT |
| | 12/17/09 | | | | ND | 93 (85) | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | ND |
| | 04/13/10 | | | | ND | 70 | ND | NT | 1.4 | ND | ND | ND | ND | ND | ND | ND | 3.5 | NT | NT | NT | NT | NT | NT | ND |
| | 05/18/10 | | | | ND | NT | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | 3.7 | NT | NT | NT | NT | NT | NT | ND |
| | 06/21/10 | | | | ND | NT | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | 2.0 | NT | NT | NT | NT | NT | NT | ND |
| | 07/09/10 | | | | ND | 90 | NT | NT | 3 | NT | NT | ND | NT | NT | NT | ND | 1.7 | NT | NT | NT | NT | NT | NT | ND |
| | 08/18/10 | | | | ND | NT | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | 1.4 | NT | NT | NT | NT | NT | NT | ND |
| | 10/18/10 | | | | ND | 81 | ND | NT | 1.3 | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | ND |
| | 05/10/11 | | | | ND | 64 | ND | NT | 1.8 | ND | ND | ND | ND | ND | ND | ND | 3.4 | NT | NT | NT | NT | NT | NT | ND |
| | 10/19/11 | | | | ND | 70 | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | 1.2 | NT | NT | NT | NT | NT | NT | ND |
| | 04/24/12 | | | | ND | 81 | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | ND |
| | 08/06/12 | | | | ND | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND | NT | ND | NT | NT | NT | NT | NT | NT |
| | 10/25/12* | | | | ND | 75 | ND | NT | ND | ND | ND | dry | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | 2.3* | NT |
| | 05/07/13 | | | | ND | 83 | ND | NT | 1.8 | ND | ND | ND | ND | ND | ND | ND | 5.9 | ND | NT | NT | NT | NT | ND | ND |
| | 11/11/13 | | | | ND | 61 | ND | ND | 1.4 | ND | ND | ND | ND | ND | ND | ND | 1.3 | ND | NT | NT | NT | NT | ND | ND |
| | 05/13/14 | | | | ND | 71 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 1.5 | ND | NT | NT | NT | NT | ND | ND |
| | 11/12/14 | | | | ND | 64 | ND | NT | ND | ND | sealed | ND | sealed | ND | ND | frozen | frozen | ND | ND | NT | NT | NT | ND | ND |
| | 03/18/15 | | | | ND | NT | NT | NT | NT | NT | sealed | NT | sealed | NT | NT | NT | NT | ND | ND | NT | NT | NT | NT | ND |
| | 05/27/15 | | | | ND | 67 | ND | NT | ND | ND | sealed | ND | sealed | ND | ND | ND | 1.1 | ND | ND | NT | NT | NT | ND | ND |
| | 08/20/15 | | | | ND | NT | NT | NT | NT | NT | sealed | NT | sealed | NT | NT | NT | NT | ND | ND | NT | NT | NT | NT | ND |
| | 11/18/15 | | | | ND | 57 | ND | NT | ND | ND | sealed | ND | sealed | ND | ND | ND | 1.3 | ND | ND | NT | NT | NT | ND | ND |
| | 04/25/16 | | | | ND | NT | NT | NT | NT | NT | sealed | NT | sealed | NT | NT | NT | NT | ND | ND | NT | NT | NT | NT | ND |
| | 06/16/16 | | | | ND | 35 | ND | NT | ND | ND | sealed | ND | sealed | ND | ND | ND | ND | ND | ND | ND | NT | NT | ND | ND |
| | 08/17/16 | | | | ND | NT | NT | NT | NT | NT | sealed | NT | sealed | NT | NT | NT | NT | ND | ND | NT | NT | NT | NT | ND |
| | 11/16/16 | | | | ND | 33 | ND | NT | ND | ND | sealed | ND | sealed | ND | ND | ND | ND | ND | ND | NT | NT | NT | 1.8 | ND |
| | 05/30/17 | | | | ND | 33 | ND | NT | 1.8 | ND | sealed | ND | sealed | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 11/21/17 | | | | ND | 42 | ND | NT | ND | ND | sealed | ND | sealed | ND | ND | ND | 1.2 | ND | ND | NT | NT | NT | 1 | ND |
| | 04/12/18 | | | | NT | NT | NT | NT | NT | NT | sealed | NT | sealed | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND | NT |
| | 05/31/18 | | | | ND | 40 | ND | NT | 2.4 | ND | sealed | ND | sealed | ND | ND | ND | 1.5 | ND | ND | NT | NT | NT | ND | ND |
| | 10/31/18 | | | | ND | 44 | ND | sealed | ND | ND | sealed | ND | sealed | ND | ND | ND | 1.8 | ND | ND | NT | NT | NT | ND | ND |
| | 05/28/19 | | | | ND | 32 | ND | sealed | 1 | ND | sealed | ND | sealed | ND | Inaccessible | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 10/15/19 | | | | ND | 26 | ND | sealed | ND | ND | sealed | ND | sealed | ND | ND | ND | ND | ND | ND | NT | NT | NT | 1 | ND |
| | 06/03/20 | | | | ND | 32.9 | ND | sealed | 1.36 | ND | sealed | ND | sealed | ND | Inaccessible | ND | 2.26 | ND | ND | NT | NT | NT | ND | ND |
| | 10/07/20 | | | | ND | 27 | ND | sealed | ND | ND | sealed | ND | sealed | Inaccessible | Inaccessible | ND | 1.8 | ND | ND | NT | NT | NT | 1.77 | ND |
| | 05/03/21 | | | | ND | 17.6 | ND | sealed | ND | ND | sealed | ND | sealed | ND | ND | ND | 1.83 | ND | ND | ND | NT | ND | ND | ND |
| | 11/09/21 | | | | ND | 25.8 | ND | sealed | ND | ND | sealed | ND | sealed | Inaccessible | Inaccessible | ND | 2.53 | ND | ND | NT | NT | NT | 2.02 | ND |
| | 01/13/22 | | | | NT | NT | NT | sealed | NT | NT | sealed | NT | sealed | ND | ND | NT | NT | NT | NT | NT | NT | NT | NT | NT |
| | 05/17/22 | | | | ND | 21.5 | ND | sealed | ND | ND | sealed | ND | sealed | ND | ND | ND | 2.32 | ND | ND | NT | NT | NT | ND | ND |
| | 10/17/22 | | | | ND | 24.5 | ND | sealed | ND | ND | sealed | ND | sealed | ND | ND | ND | 2.42 | ND | ND | NT | NT | NT | ND | ND |
| | 05/22/23** | | | | ND | 20.1 | ND | sealed | ND | ND | sealed | ND | sealed | ND | ND | ND | 1.75 | ND | ND | NT | ND | ND | ND | ND |
| | 10/5/2023*** | | | | ND | 28.7 | ND | Sealed | ND | ND | Sealed | ND | Sealed | NT | NT | ND | 1.33 | ND | ND | NT | NT | NT | 1.69 | ND |
| | 05/20/24 | | | | ND | 14.6 | ND | Sealed | ND | ND | Sealed | ND | Sealed | NT | NT | ND | 1.16 | ND | ND | NT | NT | NT | ND | ND |
| | 10/02/24 | | | | ND | 18.2 | ND | Sealed | ND | ND | Sealed | ND | Sealed | Inaccessible | NT | ND | 1.61 | ND | ND | NT | NT | NT | ND | ND |
| | 05/12/25 | | | | ND | 27 | ND | Sealed | ND | ND | Sealed | ND | Sealed | ND | ND | ND | 1.82 | ND | ND | NT | NT | NT | ND | ND |
| | 10/14/25 | | | | ND | 21.4 | ND | Sealed | ND | ND | Sealed | ND | Sealed | Inaccessible | Sealed | ND | 2.82 | ND | ND | ND | ND | ND | ND | ND |
| | 11/24/25 | | | | NT | NT | NT | Sealed | NT | NT | Sealed | NT | Sealed | ND | Sealed | NT | NT | NT | NT | NT | ND | NT | NT | ND |
| | 12/22/25 | | | | NT | NT | NT | Sealed | NT | NT | Sealed | NT | Sealed | NT | Sealed | NT | NT | NT | NT | NT | ND | NT | NT | ND |
| 1,2-Dichloropropane | 04/24/08 | 1 | 5 | µg/L | ND | 5.3 | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND |
| | 05/22/08 | | (5) | | ND | 6.4 | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND |
| | 05/22/08 | | | | ND | 6.4 (6.2) | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND |
| | 06/18/08 | | | | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND |
| | 08/13/08 | | | | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND |
| | 09/24/08 | | | | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND |
| | 04/27/09 | | | | ND | 5.6 | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | NT | ND |
| | 10/26/09 | | | | ND | 4.9 (5) | ND | NT | ND (ND) | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | ND |
| | 11/23/09 | | | | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND | ND | NT | NT | NT | NT | NT | NT | NT |
| | 12/17/09 | | | | ND | 5.7 (4.8) | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | ND |
| | 04/13/10 | | | | ND | 5.9 | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | ND |
| | 05/18/10 | | | | NT | NT | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | ND |
| | 06/21/10 | | | | NT | NT | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | ND |
| | 07/09/10 | | | | NT | 6.4 | NT | NT | ND | NT | NT | ND | NT | NT | NT | ND | ND | NT | NT | NT | NT | NT | NT | ND |
| | 08/18/10 | | | | NT | NT | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | ND |
| | 10/18/10 | | | | ND | 5.8 | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | ND |
| | 05/10/11 | | | | ND | 4.9 | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | ND |
| | 10/19/11 | | | | ND | 4.8 | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | ND |
| | 04/24/12 | | | | ND | 5.3 | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | ND |
| | 08/06/12 | | | | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND | NT | NT | NT | NT | NT | NT |
| | 10/25/12* | | | | ND | 5.1 | ND | NT | ND | ND | ND | dry | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | ND* | NT |
| | 05/07/13 | | | | Dry | 5.1 | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | ND | ND |
| | 11/11/13 | | | | ND | 4.7 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | ND | ND |
| | 05/13/14 | | | | Dry | 4.7 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | ND | ND |
| | 11/12/14 | | | | ND | 4.6 | ND | NT | ND | ND | sealed | ND | sealed | ND | ND | frozen | frozen | ND | ND | NT | NT | NT | ND | ND |
| | 03/18/15 | | | | NT | NT | NT | NT | NT | NT | sealed | NT | sealed | NT | NT | NT | NT | NT | ND | NT | NT | NT | NT | ND |
| | 05/27/15 | | | | ND | 4.7 | ND | NT | ND | ND | sealed | ND | sealed | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 08/20/15 | | | | NT | NT | NT | NT | NT | NT | sealed | NT | sealed | NT | NT | NT | NT | NT | ND | NT | NT | NT | NT | ND |
| | 11/18/15 | | | | ND | 4.4 | ND | NT | ND | ND | sealed | ND | sealed | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 04/25/16 | | | | NT | NT | NT | NT | NT | NT | sealed | NT | sealed | NT | NT | NT | NT | NT | ND | NT | NT | NT | NT | ND |
| | 06/16/16 | | | | ND | 3.7 | ND | NT | ND | ND | sealed | ND | sealed | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 08/17/16 | | | | NT | NT | NT | NT | NT | NT | sealed | NT | sealed | NT | NT | NT | NT | NT | ND | NT | NT | NT | NT | ND |
| | 11/16/16 | | | | ND | 3.1 | ND | NT | ND | ND | sealed | ND | sealed | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 05/30/17 | | | | ND | 3.0 | ND | NT | ND | ND | sealed | ND | sealed | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 11/21/17 | | | | ND | 3.1 | ND | NT | ND | ND | sealed | ND | sealed | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 05/31/18 | | | | ND | 2.8 | ND | NT | ND | ND | sealed | ND | sealed | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 10/31/18 | | | | ND | 2.9 | ND | NT | ND | ND | sealed | ND | sealed | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 05/28/19 | | | | ND | 2.2 | ND | NT | ND | ND | sealed | ND | sealed | ND | Inaccessible | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 10/15/19 | | | | ND | 2.3 | ND | NT | ND | ND | sealed | ND | sealed | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 06/03/20 | | | | ND | 1.99 | ND | NT | ND | ND | sealed | ND | sealed | ND | Inaccessible | ND | ND | ND | ND | NT | NT | NT | ND | ND |

# Table 8 - Semi-Annual Detection Monitoring VOC Detection Results (2008-Present)

Dickinson Landfill - Spirit Lake, Iowa

Permit No. 30-SDP-01-75P

| Detection Parameters (IDNR) [1] | Date | RL | MCL [2] | Units | MW-11A | MW-12A | MW-13A | MW-18A | MW-19A | MW-21A | MW-22 | MW-23A | MW-29 | MW-34A | MW-36A | MW-37A | MW-38A | MW-39A | MW-40A | SW-1 | MW-41A | GU-B&GU-C | GW Holding Pond | Blank |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,2-Dichloropropane | 10/07/20 | 1 | 5 | µg/L | ND | 1.89 | ND | NT | ND | ND | sealed | ND | sealed | Inaccessible | Inaccessible | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 05/03/21 | | (5) | | ND | 1.33 | ND | NT | ND | ND | sealed | ND | sealed | ND | ND | ND | ND | ND | ND | ND | NT | ND | ND | ND |
| | 11/09/21 | | | | ND | 1.76 | ND | NT | ND | ND | sealed | ND | sealed | Inaccessible | Inaccessible | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 01/13/22 | | | | NT | NT | NT | NT | NT | NT | sealed | NT | sealed | ND | ND | NT | NT | NT | NT | NT | NT | NT | NT | NT |
| | 05/17/22 | | | | ND | 1.47 | ND | sealed | ND | ND | sealed | ND | sealed | ND | ND | ND | ND | ND | ND | ND | NT | ND | ND | ND |
| | 10/17/22 | | | | ND | 1.66 | ND | sealed | ND | ND | sealed | ND | sealed | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 05/22/23** | | | | ND | 1.35 | ND | sealed | ND | ND | sealed | ND | sealed | ND | ND | ND | ND | ND | ND | ND | NT | ND | ND | ND |
| | 10/5/2023*** | | | | ND | 1.81 | ND | Sealed | ND | ND | Sealed | ND | Sealed | NT | NT | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 05/20/24 | | | | ND | 1.02 | ND | Sealed | ND | ND | Sealed | ND | Sealed | NT | NT | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 10/02/24 | | | | ND | 1.17 | ND | Sealed | ND | ND | Sealed | ND | Sealed | Inaccessible | NT | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 05/12/25 | | | | ND | 1.75 | ND | Sealed | ND | ND | Sealed | ND | Sealed | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 10/14/25 | | | | ND | 1.41 | ND | Sealed | ND | ND | Sealed | ND | Sealed | Inaccessible | Sealed | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 11/24/25 | | | | NT | NT | NT | Sealed | NT | NT | Sealed | NT | Sealed | ND | Sealed | NT | NT | NT | NT | NT | ND | NT | NT | ND |
| | 12/22/25 | | | | NT | NT | NT | Sealed | NT | NT | Sealed | NT | Sealed | NT | Sealed | NT | NT | NT | NT | NT | ND | NT | NT | ND |
| Benzene | 04/24/08 | 1 | 5 | µg/L | ND | 2.6 | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND |
| | 05/22/08 | | (5) | | ND | 2.6 | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND |
| | 06/18/08 | | | | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND |
| | 08/13/08 | | | | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND |
| | 09/24/08 | | | | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND |
| | 04/27/09 | | | | ND | 2.0 | ND | NT | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | NT | NT | ND |
| | 10/26/09 | | | | ND | 1.8 (1.9) | ND | NT | ND (ND) | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | ND |
| | 11/23/09 | | | | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND | ND | NT | NT | NT | NT | NT | NT | NT |
| | 12/17/09 | | | | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | ND |
| | 04/13/10 | | | | ND | 2.7 | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | ND |
| | 05/18/10 | | | | NT | NT | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | ND |
| | 06/21/10 | | | | NT | NT | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | ND |
| | 07/09/10 | | | | NT | 2.1 | NT | NT | ND | NT | NT | ND | NT | NT | NT | ND | ND | NT | NT | NT | NT | NT | NT | ND |
| | 08/18/10 | | | | NT | NT | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | ND |
| | 10/18/10 | | | | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | ND |
| | 05/10/11 | | | | ND | 1.7 | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | ND |
| | 10/19/11 | | | | ND | 1.1 | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | ND |
| | 04/24/12 | | | | ND | ND | ND | NT | ND | ND | 3.4 | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | ND |
| | 08/06/12 | | | | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND | NT | NT | NT | NT | NT | NT |
| | 10/25/12* | | | | ND | ND | ND | NT | ND | ND | ND | dry | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | ND* | NT |
| | 05/07/13 | | | | Dry | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | ND | ND |
| | 11/11/13 | | | | ND | 1.1 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | ND | ND |
| | 05/13/14 | | | | Dry | 1 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | ND | ND |
| | 11/12/14 | | | | ND | 1.2 | ND | NT | ND | ND | sealed | ND | sealed | ND | ND | frozen | frozen | ND | ND | NT | NT | NT | ND | ND |
| | 03/18/15 | | | | NT | NT | NT | NT | NT | NT | sealed | NT | sealed | NT | NT | NT | NT | NT | ND | NT | NT | NT | NT | ND |
| | 05/27/15 | | | | ND | 1.2 | ND | NT | ND | ND | sealed | ND | sealed | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 08/20/15 | | | | NT | NT | NT | NT | NT | NT | sealed | NT | sealed | NT | NT | NT | NT | NT | ND | NT | NT | NT | NT | ND |
| | 11/18/15 | | | | ND | 1.3 | ND | NT | ND | ND | sealed | 2.3 | sealed | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 04/25/16 | | | | NT | NT | NT | NT | NT | NT | sealed | NT | sealed | NT | NT | NT | NT | NT | ND | NT | NT | NT | NT | ND |
| | 06/16/16 | | | | ND | 1.2 | ND | NT | ND | ND | sealed | 2.1 | sealed | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 08/17/16 | | | | NT | NT | NT | NT | NT | NT | sealed | NT | sealed | NT | NT | NT | NT | NT | ND | NT | NT | NT | NT | ND |
| | 11/16/16 | | | | ND | 1.2 | ND | NT | ND | ND | sealed | 1.3 | sealed | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 05/30/17 | | | | ND | 1.1 | ND | NT | ND | ND | sealed | ND | sealed | ND | ND | 1.3 | ND | ND | ND | NT | NT | NT | ND | ND |
| | 11/21/17 | | | | ND | 1.4 | ND | NT | ND | ND | sealed | ND | sealed | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 05/31/18 | | | | ND | 1.6 | ND | NT | ND | ND | sealed | 1.6 | sealed | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 10/31/18 | | | | ND | 1.6 | ND | NT | ND | ND | sealed | ND | sealed | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 05/28/19 | | | | ND | 1.8 | ND | NT | ND | ND | sealed | 3.5 | sealed | ND | Inaccessible | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 10/15/19 | | | | ND | 1.7 | ND | NT | ND | ND | sealed | 1.4 | sealed | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 06/03/20 | | | | ND | 1.44 | ND | NT | ND | ND | sealed | ND | sealed | ND | Inaccessible | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 10/07/20 | | | | ND | 1.63 | ND | NT | ND | ND | sealed | ND | sealed | Inaccessible | Inaccessible | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 05/03/21 | | | | ND | 1.57 | ND | NT | ND | ND | sealed | ND | sealed | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 11/09/21 | | | | ND | 2.1 | ND | NT | ND | ND | sealed | ND | sealed | Inaccessible | Inaccessible | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 01/13/22 | | | | NT | NT | NT | NT | NT | NT | sealed | NT | sealed | ND | ND | NT | NT | NT | NT | NT | NT | NT | NT | NT |
| | 05/17/22 | | | | ND | 1.88 | ND | sealed | ND | ND | sealed | ND | sealed | ND | ND | ND | ND | ND | ND | ND | NT | ND | ND | ND |
| | 10/17/22 | | | | ND | 1.75 | ND | sealed | ND | ND | sealed | ND | sealed | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 05/22/23** | | | | ND | 2.63 | ND | sealed | ND | ND | sealed | ND | sealed | ND | ND | ND | ND | ND | ND | ND | NT | ND | ND | ND |
| | 10/5/2023*** | | | | ND | 2.29 | ND | Sealed | ND | ND | Sealed | ND | Sealed | NT | NT | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 05/20/24 | | | | ND | 2.94 | ND | Sealed | ND | ND | Sealed | ND | Sealed | NT | NT | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 10/02/24 | | | | ND | 1.38 | ND | Sealed | ND | ND | Sealed | 1.15 | Sealed | Inaccessible | NT | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 05/12/25 | | | | ND | 1.42 | ND | Sealed | ND | ND | Sealed | ND | Sealed | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 10/14/25 | | | | ND | 1.28 | ND | Sealed | ND | ND | Sealed | ND | Sealed | Inaccessible | Sealed | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 11/24/25 | | | | NT | NT | NT | Sealed | NT | NT | NT | NT | Sealed | ND | Sealed | NT | NT | NT | NT | NT | ND | NT | NT | ND |
| | 12/22/25 | | | | NT | NT | NT | Sealed | NT | NT | NT | NT | Sealed | NT | Sealed | NT | NT | NT | NT | NT | ND | NT | NT | ND |
| Bromomethane | 04/24/08 | 1 | na | µg/L | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND |
| | 05/22/08 | | (10) | | ND | ND | 1.1 | 1.3 | 1.5 | 1.6 | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND |
| | 06/18/08 | | | | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND | NT | ND |
| | 08/13/08 | | | | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND | NT | ND |
| | 09/24/08 | | | | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | NT | NT | NT | Dry | NT | ND | NT | ND |
| | 04/27/09 | | | | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | ND | NT | ND | NT | ND |
| | 10/26/09 | | | | ND | ND (ND) | ND | NT | ND (ND) | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | ND (ND) | NT | ND |
| | 11/23/09 | | | | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND | ND | NT | NT | NT | NT | NT | NT | NT |
| | 12/17/09 | | | | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | ND | NT | ND |
| | 04/13/10 | | | | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | ND | NT | ND | NT | ND |
| | 05/18/10 | | | | NT | NT | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | ND |
| | 06/21/10 | | | | NT | NT | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | ND |
| | 07/09/10 | | | | NT | ND | NT | NT | ND | NT | NT | ND | NT | NT | NT | ND | ND | NT | NT | NT | NT | ND | NT | ND |
| | 08/18/10 | | | | NT | NT | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | ND |
| | 10/18/10 | | | | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | ND | NT | ND | NT | ND |
| | 05/10/11 | | | | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | ND | NT | ND | NT | ND |
| | 10/19/11 | | | | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | Dry | NT | Dry | NT | ND |
| | 04/24/12 | | | | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | ND | NT | ND | NT | ND |
| | 08/06/12 | | | | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND | ND | NT | NT | NT | NT | NT | NT | NT |
| | 10/25/12* | | | | ND | ND | ND | NT | ND | ND | ND | dry | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | ND* | NT |
| | 05/07/13 | | | | Dry | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | ND | ND |
| | 11/11/13 | | | | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | ND | ND |
| | 05/13/14 | | | | Dry | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | ND | ND |
| | 11/12/14 | | | | ND | ND | ND | NT | ND | ND | sealed | ND | sealed | ND | ND | frozen | frozen | ND | ND | NT | NT | NT | ND | ND |
| | 03/18/15 | | | | NT | NT | NT | NT | NT | NT | sealed | NT | sealed | NT | NT | NT | NT | ND | ND | NT | NT | NT | NT | ND |
| | 05/27/15 | | | | ND | ND | ND | NT | ND | ND | sealed | ND | sealed | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND |

# Table 8 - Semi-Annual Detection Monitoring VOC Detection Results (2008-Present)

Dickinson Landfill - Spirit Lake, Iowa

Permit No. 30-SDP-01-75P

| Detection Parameters (IDNR) [1] | Date | RL | MCL [2] | Units | MW-11A | MW-12A | MW-13A | MW-18A | MW-19A | MW-21A | MW-22 | MW-23A | MW-29 | MW-34A | MW-36A | MW-37A | MW-38A | MW-39A | MW-40A | SW-1 | MW-41A | GU-B&GU-C | GW Holding Pond | Blank |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bromomethane | 08/20/15 | 1 | na | µg/L | NT | NT | NT | NT | NT | NT | sealed | NT | sealed | NT | NT | NT | NT | NT | ND | NT | NT | NT | NT | ND |
| | 11/18/15 | | (10) | | ND | ND | ND | NT | ND | ND | sealed | ND | sealed | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 04/25/16 | | | | NT | NT | NT | NT | NT | NT | sealed | NT | sealed | NT | NT | NT | NT | NT | ND | NT | NT | NT | NT | ND |
| | 06/16/16 | | | | ND | ND | ND | NT | ND | ND | sealed | ND | sealed | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 08/17/16 | | | | NT | NT | NT | NT | NT | NT | sealed | NT | sealed | NT | NT | NT | NT | NT | ND | NT | NT | NT | NT | ND |
| | 11/16/16 | | | | ND | ND | ND | NT | ND | ND | sealed | ND | sealed | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 05/30/17 | | | | ND | ND | ND | NT | ND | ND | sealed | ND | sealed | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 11/21/17 | | | | ND | ND | ND | NT | ND | ND | sealed | ND | sealed | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 05/31/18 | | | | ND | ND | ND | NT | ND | ND | sealed | ND | sealed | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 10/31/18 | | | | ND | ND | ND | NT | ND | ND | sealed | ND | sealed | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 05/28/19 | | | | ND | ND | ND | NT | ND | ND | sealed | ND | sealed | ND | Inaccessible | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 10/15/19 | | | | ND | ND | ND | NT | ND | ND | sealed | ND | sealed | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 06/03/20 | 2.5 | | | ND | ND | ND | NT | ND | ND | sealed | ND | sealed | ND | Inaccessible | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 10/07/20 | | | | ND | ND | ND | NT | ND | ND | sealed | ND | sealed | Inaccessible | Inaccessible | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 05/03/21 | | | | ND | ND | ND | ND | ND | ND | sealed | ND | sealed | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 11/09/21 | | | | ND | ND | ND | NT | ND | ND | sealed | ND | sealed | Inaccessible | Inaccessible | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 01/13/22 | | | | NT | NT | NT | NT | NT | NT | sealed | NT | sealed | ND | ND | NT | NT | NT | NT | NT | NT | NT | NT | NT |
| | 05/17/22 | | | | ND | ND | ND | sealed | ND | ND | sealed | ND | sealed | ND | ND | ND | ND | ND | ND | ND | NT | ND | ND | ND |
| | 10/17/22 | | | | ND | ND | ND | sealed | ND | ND | sealed | ND | sealed | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 05/22/23** | | | | ND | ND | ND | sealed | ND | ND | sealed | ND | sealed | ND | ND | ND | ND | ND | ND | ND | NT | ND | ND | ND |
| | 10/5/2023*** | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | NT | NT | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 05/20/24 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | NT | NT | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 10/02/24 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | Inaccessible | NT | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 05/12/25 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 10/14/25 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | Inaccessible | Sealed | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 11/24/25 | | | | NT | NT | NT | Sealed | NT | NT | Sealed | NT | Sealed | ND | Sealed | NT | NT | NT | NT | NT | ND | NT | NT | ND |
| | 12/22/25 | | | | NT | NT | NT | Sealed | NT | NT | Sealed | NT | Sealed | NT | Sealed | NT | NT | NT | NT | NT | ND | NT | NT | ND |
| Chloroethane | 04/24/08 | 1 | na | µg/L | ND | 22 | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND |
| | 05/22/08 | | (2,800) | | ND | 29 (25) | ND | ND | 3.6 | ND | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND |
| | 06/18/08 | | | | ND | 23 | ND | ND | 4.5 | ND | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND |
| | 08/13/08 | | | | ND | 47 | ND | ND | 5 | ND | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND |
| | 09/24/08 | | | | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND |
| | 04/27/09 | | | | ND | 26 | ND | NT | 3.1 | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | NT | ND |
| | 10/26/09 | | | | ND | 34 (61) | ND | NT | 2.9 (3.5) | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | ND |
| | 11/23/09 | | | | NT | NT | ND | NT | NT | NT | NT | NT | NT | NT | NT | 9.8 | ND | NT | NT | NT | NT | NT | NT | NT |
| | 12/17/09 | | | | ND | 24 (24) | ND | NT | (1.9) 1.6 | ND | ND | ND | ND | ND | ND | 2.9 | ND | NT | NT | NT | NT | NT | NT | ND |
| | 04/13/10 | | | | ND | 62 | ND | NT | 4.0 | ND | ND | ND | ND | ND | ND | 7.9 | 5.9 | NT | NT | NT | NT | NT | NT | ND |
| | 05/18/10 | | | | NT | NT | ND | NT | NT | NT | ND | ND | ND | ND | ND | 3.6 | 1.5 | NT | NT | NT | NT | NT | NT | ND |
| | 06/21/10 | | | | NT | NT | ND | NT | NT | NT | ND | ND | ND | ND | ND | 5.2 | ND | NT | NT | NT | NT | NT | NT | ND |
| | 07/09/10 | | | | NT | 24 | ND | NT | 2.2 | NT | NT | ND | NT | NT | NT | 4.3 | ND | NT | NT | NT | NT | NT | NT | ND |
| | 08/18/10 | | | | NT | NT | ND | NT | NT | NT | ND | ND | ND | ND | ND | 4 | ND | NT | NT | NT | NT | NT | NT | ND |
| | 10/18/10 | | | | ND | 20 | ND | NT | 1.4 | ND | ND | ND | ND | ND | ND | 3.6 | ND | NT | NT | NT | NT | NT | NT | ND |
| | 05/10/11 | | | | ND | 21 | ND | NT | 1.4 | ND | ND | ND | ND | ND | ND | 4.4 | ND | NT | NT | NT | NT | NT | NT | ND |
| | 10/19/11 | | | | ND | 18 | ND | NT | ND | ND | ND | ND | ND | ND | ND | 4.1 | ND | NT | NT | NT | NT | NT | NT | ND |
| | 04/24/12 | | | | ND | 38 | ND | NT | 1.1 | ND | ND | ND | ND | ND | ND | 6.4 | 1.0 | NT | NT | NT | NT | NT | NT | ND |
| | 08/06/12 | | | | NT | NT | ND | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND | NT | NT | NT | NT | NT | NT |
| | 10/25/12* | | | | ND | 23 | ND | NT | ND | ND | ND | dry | ND | ND | ND | 4.2 | ND | ND | NT | NT | NT | NT | 1.2* | NT |
| | 05/07/13 | | | | Dry | 21 | ND | NT | 1.9 | ND | ND | ND | ND | ND | ND | 5.1 | 2.9 | ND | NT | NT | NT | NT | ND | ND |
| | 11/11/13 | | | | ND | 21 | ND | ND | ND | ND | ND | ND | ND | ND | ND | 5.3 | ND | ND | NT | NT | NT | NT | ND | ND |
| | 05/13/14 | | | | Dry | 11 | ND | ND | ND | ND | ND | ND | ND | ND | ND | 3.6 | ND | ND | NT | NT | NT | NT | ND | ND |
| | 11/12/14 | | | | ND | 29 | ND | NT | ND | ND | sealed | ND | sealed | ND | ND | frozen | frozen | ND | ND | NT | NT | NT | ND | ND |
| | 03/18/15 | | | | NT | NT | ND | NT | NT | NT | sealed | NT | sealed | NT | NT | NT | NT | NT | ND | NT | NT | NT | NT | ND |
| | 05/27/15 | | | | ND | 27 | ND | NT | ND | ND | sealed | ND | sealed | ND | ND | 5.6 | ND | ND | ND | NT | NT | NT | ND | ND |
| | 08/20/15 | | | | NT | NT | ND | NT | NT | NT | sealed | NT | sealed | NT | NT | NT | NT | NT | ND | NT | NT | NT | NT | ND |
| | 11/18/15 | | | | ND | 33 | ND | NT | ND | ND | sealed | ND | sealed | ND | ND | 5 | 1.1 | ND | ND | NT | NT | NT | ND | ND |
| | 04/25/16 | | | | NT | NT | ND | NT | NT | NT | sealed | NT | sealed | NT | NT | NT | NT | NT | ND | NT | NT | NT | NT | ND |
| | 06/16/16 | | | | ND | 32 | ND | NT | ND | ND | sealed | ND | sealed | ND | ND | 6.4 | ND | ND | ND | NT | NT | NT | ND | ND |
| | 08/17/16 | | | | NT | NT | ND | NT | NT | NT | sealed | NT | sealed | NT | NT | NT | NT | NT | ND | NT | NT | NT | NT | ND |
| | 11/16/16 | | | | ND | 35 | ND | NT | ND | ND | sealed | ND | sealed | ND | ND | 5.3 | ND | ND | ND | NT | NT | NT | ND | ND |
| | 05/30/17 | | | | ND | 25 | ND | NT | ND | ND | sealed | ND | sealed | ND | ND | 5.1 | ND | ND | ND | NT | NT | NT | ND | ND |
| | 11/21/17 | | | | ND | 27 | ND | NT | ND | ND | sealed | ND | sealed | ND | ND | 2.7 | ND | ND | ND | NT | NT | NT | ND | ND |
| | 05/31/18 | | | | ND | 21 | ND | NT | ND | ND | sealed | ND | sealed | ND | ND | 4.4 | ND | ND | ND | NT | NT | NT | ND | ND |
| | 10/31/18 | 2.5 | na | µg/L | ND | 28 | ND | NT | ND | ND | sealed | ND | sealed | ND | ND | 5.2 | ND | ND | ND | NT | NT | NT | ND | ND |
| | 05/28/19 | | (2,800) | | ND | 24 | ND | NT | ND | ND | sealed | ND | sealed | ND | Inaccessible | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 10/15/19 | | | | ND | 29 | ND | NT | ND | ND | sealed | ND | sealed | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 06/03/20 | | | | ND | 17.5 | ND | NT | ND | ND | sealed | ND | sealed | ND | Inaccessible | 3 | ND | ND | ND | NT | NT | NT | ND | ND |
| | 10/07/20 | | | | ND | 18.3 | ND | NT | ND | ND | sealed | ND | sealed | Inaccessible | Inaccessible | 4.12 | ND | ND | ND | NT | NT | NT | ND | ND |
| | 05/03/21 | | | | ND | 14.2 | ND | NT | ND | ND | sealed | ND | sealed | ND | ND | 5.32 | ND | ND | ND | ND | NT | ND | ND | ND |
| | 11/09/21 | | | | ND | 18.8 | ND | NT | ND | ND | sealed | ND | sealed | Inaccessible | Inaccessible | 7.7 | ND | ND | ND | NT | NT | NT | ND | ND |
| | 01/13/22 | | | | NT | NT | NT | NT | NT | NT | sealed | NT | sealed | ND | ND | NT | NT | NT | NT | NT | NT | NT | NT | NT |
| | 05/17/22 | | | | ND | 18.4 | ND | sealed | ND | ND | sealed | ND | sealed | ND | ND | 5.62 | ND | ND | ND | NT | NT | NT | ND | ND |
| | 10/17/22 | | | | ND | 23.9 | ND | sealed | ND | ND | sealed | ND | sealed | ND | ND | 7.07 | ND | ND | ND | NT | NT | NT | ND | ND |
| | 05/22/23** | | | | ND | 11.8 | ND | sealed | ND | ND | sealed | ND | sealed | ND | ND | 4.51 | ND | ND | ND | ND | NT | ND | ND | ND |
| | 10/5/2023*** | | | | ND | 13.8 | ND | Sealed | ND | ND | Sealed | ND | Sealed | NT | NT | 4.02 | ND | ND | ND | NT | NT | NT | ND | ND |
| | 05/20/24 | | | | ND | 9.2 | ND | Sealed | ND | ND | Sealed | ND | Sealed | NT | NT | 3.18 | ND | ND | ND | NT | NT | NT | ND | ND |
| | 10/02/24 | | | | ND | 8.82 | ND | Sealed | ND | ND | Sealed | ND | Sealed | Inaccessible | NT | 2.63 | ND | ND | ND | NT | NT | NT | ND | ND |
| | 05/12/25 | | | | ND | 13.7 | ND | Sealed | ND | ND | Sealed | ND | Sealed | ND | ND | 3.41 | ND | ND | ND | NT | NT | NT | ND | ND |
| | 10/14/25 | | | | ND | 9.75 | ND | Sealed | ND | ND | Sealed | ND | Sealed | Inaccessible | Sealed | 2.84 | ND | ND | ND | ND | ND | ND | ND | ND |
| | 11/24/25 | | | | NT | NT | NT | Sealed | NT | NT | Sealed | NT | Sealed | ND | Sealed | NT | NT | NT | NT | NT | ND | NT | NT | ND |
| | 12/22/25 | | | | NT | NT | NT | Sealed | NT | NT | Sealed | NT | Sealed | NT | Sealed | NT | NT | NT | NT | NT | ND | NT | NT | ND |
| Iodomethane | 04/24/08 | 1 | na | µg/L | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND |
| | 05/22/08 | | | | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND |
| | 06/18/08 | | | | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND |
| | 08/13/08 | | | | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND |
| | 09/24/08 | | | | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND |
| | 04/27/09 | | | | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | NT | NT | ND |
| | 10/26/09 | | | | ND | ND (ND) | ND | NT | ND (ND) | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | ND |
| | 11/23/09 | | | | NT | NT | ND | NT | NT | NT | NT | NT | NT | NT | NT | ND | ND | NT | NT | NT | NT | NT | NT | NT |
| | 12/17/09 | | | | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | ND |
| | 04/13/10 | | | | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | ND |
| | 05/18/10 | | | | NT | NT | ND | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | ND |
| | 06/21/10 | | | | NT | NT | ND | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | ND |
| | 07/09/10 | | | | NT | ND | ND | NT | ND | NT | NT | ND | NT | NT | NT | ND | ND | NT | NT | NT | NT | NT | NT | ND |

# Table 8 - Semi-Annual Detection Monitoring VOC Detection Results (2008-Present)

Dickinson Landfill - Spirit Lake, Iowa

Permit No. 30-SDP-01-75P

| Detection Parameters (IDNR) [1] | Date | RL | MCL [2] | Units | MW-11A | MW-12A | MW-13A | MW-18A | MW-19A | MW-21A | MW-22 | MW-23A | MW-29 | MW-34A | MW-36A | MW-37A | MW-38A | MW-39A | MW-40A | SW-1 | MW-41A | GU-B&GU-C | GW Holding Pond | Blank |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Iodomethane | 08/18/10 | 1 | na | µg/L | NT | NT | ND | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | ND |
| | 10/18/10 | | | | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | ND |
| | 05/10/11 | | | | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | ND |
| | 10/19/11 | | | | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | ND |
| | 04/24/12 | | | | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | ND |
| | 08/06/12 | | | | NT | NT | ND | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND | NT | NT | NT | NT | NT | NT |
| | 10/25/12* | | | | ND | ND | ND | NT | ND | ND | ND | dry | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | ND* | NT |
| | 05/07/13 | | | | Dry | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | ND | ND |
| | 11/11/13 | | | | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | ND | ND |
| | 05/13/14 | | | | Dry | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | ND | ND |
| | 11/12/14 | | | | ND | ND | ND | NT | ND | ND | sealed | ND | sealed | ND | ND | frozen | frozen | ND | ND | NT | NT | NT | ND | ND |
| | 03/18/15 | | | | NT | NT | ND | NT | NT | NT | sealed | NT | sealed | NT | NT | NT | NT | NT | ND | NT | NT | NT | NT | ND |
| | 05/27/15 | | | | ND | ND | ND | NT | ND | ND | sealed | ND | sealed | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 08/20/15 | | | | NT | NT | ND | NT | NT | NT | sealed | NT | sealed | NT | NT | NT | NT | NT | ND | NT | NT | NT | NT | ND |
| | 11/18/15 | | | | ND | ND | ND | NT | ND | ND | sealed | ND | sealed | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 04/25/16 | | | | NT | NT | ND | NT | NT | NT | sealed | NT | sealed | NT | NT | NT | NT | NT | ND | NT | NT | NT | NT | ND |
| | 06/16/16 | | | | ND | ND | ND | NT | ND | ND | sealed | ND | sealed | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 08/17/16 | | | | NT | NT | ND | NT | NT | NT | sealed | NT | sealed | NT | NT | NT | NT | NT | ND | NT | NT | NT | NT | ND |
| | 11/16/16 | | | | ND | ND | ND | NT | ND | ND | sealed | ND | sealed | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 05/30/17 | | | | ND | ND | ND | NT | ND | ND | sealed | ND | sealed | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 11/21/17 | | | | ND | ND | ND | NT | ND | ND | sealed | ND | sealed | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 05/31/18 | | | | ND | ND | ND | NT | ND | ND | sealed | ND | sealed | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 10/31/18 | | | | ND | ND | ND | NT | ND | ND | sealed | ND | sealed | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 05/28/19 | | | | ND | ND | ND | NT | ND | ND | sealed | ND | sealed | ND | Inaccessible | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 10/15/19 | | | | ND | ND | ND | NT | ND | ND | sealed | ND | sealed | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 06/03/20 | *10* | | | ND | ND | ND | NT | ND | ND | sealed | ND | sealed | ND | Inaccessible | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 10/07/20 | | | | ND | ND | ND | NT | ND | ND | sealed | ND | sealed | Inaccessible | Inaccessible | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 05/03/21 | | | | ND | ND | ND | ND | ND | ND | sealed | ND | sealed | ND | ND | ND | ND | ND | ND | ND | NT | ND | ND | ND |
| | 11/09/21 | | | | ND | ND | ND | NT | ND | ND | sealed | ND | sealed | Inaccessible | Inaccessible | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 01/13/22 | | | | NT | NT | NT | NT | NT | NT | sealed | NT | sealed | ND | ND | NT | NT | NT | NT | NT | NT | NT | NT | NT |
| | 05/17/22 | | | | ND | ND | ND | sealed | ND | ND | sealed | ND | sealed | ND | ND | ND | ND | ND | ND | ND | NT | ND | ND | ND |
| | 10/17/22 | | | | ND | ND | ND | sealed | ND | ND | sealed | ND | sealed | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 05/22/23** | | | | ND | ND | ND | sealed | ND | ND | sealed | ND | sealed | ND | ND | ND | ND | ND | ND | ND | NT | ND | ND | ND |
| | 10/5/2023*** | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | NT | NT | ND | ND | ND | ND | NT | NT | | ND | ND |
| | 05/20/24 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | NT | NT | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 10/02/24 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | Inaccessible | NT | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 05/12/25 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 10/14/25 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | Inaccessible | Sealed | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 11/24/25 | | | | NT | NT | NT | Sealed | NT | NT | Sealed | NT | Sealed | ND | Sealed | NT | NT | NT | NT | NT | ND | NT | NT | ND |
| | 12/22/25 | | | | NT | NT | NT | Sealed | NT | NT | Sealed | NT | Sealed | NT | Sealed | NT | NT | NT | NT | NT | ND | NT | NT | ND |
| Methylene chloride | 04/24/08 | 1 | 5 | µg/L | ND | 2.4 | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND |
| | 05/22/08 | | (5) | | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND |
| | 06/18/08 | | | | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND |
| | 08/13/08 | | | | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND |
| | 09/24/08 | | | | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND |
| | 04/27/09 | | | | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | NT | NT | ND |
| | 10/26/09 | | | | ND | 1.5 (ND) | ND | NT | ND (ND) | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | ND |
| | 11/23/09 | | | | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND | ND | NT | NT | NT | NT | NT | NT | NT |
| | 12/17/09 | | | | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | ND |
| | 04/13/10 | | | | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | ND |
| | 05/18/10 | | | | NT | NT | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | ND |
| | 06/21/10 | | | | NT | NT | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | ND |
| | 07/09/10 | | | | NT | ND | NT | NT | ND | NT | NT | ND | NT | NT | NT | ND | ND | NT | NT | NT | NT | NT | NT | ND |
| | 08/18/10 | | | | NT | NT | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | ND |
| | 10/18/10 | | | | ND | 2.3 | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | ND |
| | 05/10/11 | | | | ND | 1.2 | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | ND |
| | 10/19/11 | | | | ND | 1.1 | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | ND |
| | 04/24/12 | | | | ND | 2.2 | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | ND |
| | 08/06/12 | | | | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND | NT | NT | NT | NT | NT | NT |
| | 10/25/12* | | | | ND | 2.1 | ND | NT | ND | ND | ND | dry | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | ND* | NT |
| | 05/07/13 | | | | Dry | 2.1 | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | ND | ND |
| | 11/11/13 | | | | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | ND | ND |
| | 05/13/14 | | | | Dry | 1.3 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | ND | ND |
| | 11/12/14 | | | | ND | 1.5 | ND | NT | ND | ND | sealed | ND | sealed | ND | ND | frozen | frozen | ND | ND | NT | NT | NT | ND | ND |
| | 03/18/15 | | | | NT | NT | NT | NT | NT | NT | sealed | NT | sealed | NT | NT | NT | NT | NT | ND | NT | NT | NT | NT | ND |
| | 05/27/15 | | | | ND | ND | ND | NT | ND | ND | sealed | ND | sealed | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 08/20/15 | | | | NT | NT | NT | NT | NT | NT | sealed | NT | sealed | NT | NT | NT | NT | NT | ND | NT | NT | NT | NT | ND |
| | 11/18/15 | | | | ND | ND | ND | NT | ND | ND | sealed | ND | sealed | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 04/25/16 | | | | NT | NT | NT | NT | NT | NT | sealed | NT | sealed | NT | NT | NT | NT | NT | ND | NT | NT | NT | NT | ND |
| | 06/16/16 | | | | ND | ND | ND | NT | ND | ND | sealed | ND | sealed | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 08/17/16 | | | | NT | NT | NT | NT | NT | NT | sealed | NT | sealed | NT | NT | NT | NT | NT | ND | NT | NT | NT | NT | ND |
| | 11/16/16 | | | | ND | ND | ND | NT | ND | ND | sealed | ND | sealed | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 05/30/17 | | | | ND | ND | ND | NT | ND | ND | sealed | ND | sealed | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 11/21/17 | | | | ND | ND | ND | NT | ND | ND | sealed | ND | sealed | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 05/31/18 | | | | ND | ND | ND | NT | ND | ND | sealed | ND | sealed | ND | ND | 6.9 | ND | ND | ND | NT | NT | NT | ND | ND |
| | 09/04/18 | | | | NT | NT | NT | NT | NT | NT | sealed | NT | sealed | NT | NT | ND | NT | NT | NT | NT | NT | NT | NT | NT |
| | 10/31/18 | | | | ND | ND | ND | NT | ND | ND | sealed | ND | sealed | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 05/28/19 | | | | ND | ND | ND | NT | ND | ND | sealed | ND | sealed | ND | Inaccessible | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 10/15/19 | | | | ND | ND | ND | NT | ND | ND | sealed | ND | sealed | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 06/03/20 | | | | ND | ND | ND | NT | ND | ND | sealed | ND | sealed | ND | Inaccessible | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 10/07/20 | | | | ND | ND | ND | NT | ND | ND | sealed | ND | sealed | Inaccessible | Inaccessible | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 05/03/21 | | | | ND | ND | ND | ND | ND | ND | sealed | ND | sealed | ND | ND | ND | ND | ND | ND | ND | NT | ND | ND | ND |
| | 11/09/21 | | | | ND | ND | ND | NT | ND | ND | sealed | ND | sealed | Inaccessible | Inaccessible | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 01/13/22 | | | | NT | NT | NT | NT | NT | NT | sealed | NT | sealed | ND | ND | NT | NT | NT | NT | NT | NT | NT | NT | NT |
| | 05/17/22 | | | | ND | ND | ND | sealed | ND | ND | sealed | ND | sealed | ND | ND | ND | ND | ND | ND | ND | NT | ND | ND | ND |
| | 10/17/22 | | | | ND | ND | ND | sealed | ND | ND | sealed | ND | sealed | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 05/22/23** | | | | ND | ND | ND | sealed | ND | ND | sealed | ND | sealed | ND | ND | ND | ND | ND | ND | ND | NT | ND | ND | ND |
| | 10/5/2023*** | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | NT | NT | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 05/20/24 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | NT | NT | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 10/02/24 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | Inaccessible | NT | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 05/12/25 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 10/14/25 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | Inaccessible | Sealed | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 11/24/25 | | | | NT | NT | NT | Sealed | NT | NT | Sealed | NT | Sealed | ND | Sealed | NT | NT | NT | NT | NT | ND | NT | NT | ND |
| | 12/22/25 | | | | NT | NT | NT | Sealed | NT | NT | Sealed | NT | Sealed | NT | Sealed | NT | NT | NT | NT | NT | ND | NT | NT | ND |

# Table 8 - Semi-Annual Detection Monitoring VOC Detection Results (2008-Present)

Dickinson Landfill - Spirit Lake, Iowa

Permit No. 30-SDP-01-75P

| Detection Parameters (IDNR) [1] | Date | RL | MCL [2] | Units | MW-11A | MW-12A | MW-13A | MW-18A | MW-19A | MW-21A | MW-22 | MW-23A | MW-29 | MW-34A | MW-36A | MW-37A | MW-38A | MW-39A | MW-40A | SW-1 | MW-41A | GU-B&GU-C | GW Holding Pond | Blank |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Trichloroethene | 04/24/08 | 1 | 5 | µg/L | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND |
| | 05/22/08 | | (5) | | ND | 1.2 | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND |
| | 06/18/08 | | | | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND |
| | 08/13/08 | | | | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND |
| | 09/24/08 | | | | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND |
| | 04/27/09 | | | | ND | ND | ND | NT | ND | ND | ND | 9.8 | ND | ND | ND | NT | NT | NT | NT | NT | NT | NT | NT | ND |
| | 10/26/09 | | | | ND | ND (ND) | ND | NT | ND (ND) | ND | ND | 8.2 | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | ND |
| | 11/23/09 | | | | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND | ND | NT | NT | NT | NT | NT | NT | NT |
| | 12/17/09 | | | | ND | ND | ND | NT | ND | ND | ND | 11 | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | ND |
| | 04/13/10 | | | | ND | ND | ND | NT | ND | ND | ND | 7.6 | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | ND |
| | 05/18/10 | | | | NT | NT | NT | NT | NT | NT | ND | 7 | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | ND |
| | 06/21/10 | | | | NT | NT | NT | NT | NT | NT | ND | 10 | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | ND |
| | 07/09/10 | | | | NT | ND | NT | NT | ND | NT | NT | 10 | NT | NT | NT | ND | ND | NT | NT | NT | NT | NT | NT | ND |
| | 08/18/10 | | | | NT | NT | NT | NT | NT | NT | ND | 8.8 | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | ND |
| | 10/18/10 | | | | ND | ND | ND | NT | ND | ND | ND | 12 | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | ND |
| | 05/10/11 | | | | ND | ND | ND | NT | ND | ND | ND | 4.5 | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | ND |
| | 10/19/11 | | | | ND | ND | ND | NT | ND | ND | ND | 18 | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | ND |
| | 04/24/12 | | | | ND | ND | ND | NT | ND | ND | ND | 14 | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | ND |
| | 08/06/12 | | | | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND | NT | NT | NT | NT | NT | NT |
| | 10/25/12* | | | | ND | ND | ND | NT | ND | ND | ND | dry | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | ND* | NT |
| | 05/07/13 | | | | Dry | ND | ND | NT | ND | ND | ND | 10 | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | ND | ND |
| | 11/11/13 | | | | ND | ND | ND | ND | ND | ND | ND | 13 | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | ND | ND |
| | 05/13/14 | | | | Dry | ND | ND | ND | ND | ND | ND | 10 | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | ND | ND |
| | 11/12/14 | | | | ND | ND | ND | NT | ND | ND | sealed | 13 | sealed | ND | ND | frozen | frozen | ND | ND | NT | NT | NT | ND | ND |
| | 03/18/15 | | | | NT | NT | NT | NT | NT | NT | sealed | NT | sealed | NT | NT | NT | NT | NT | ND | NT | NT | NT | NT | ND |
| | 05/27/15 | | | | ND | ND | ND | NT | ND | ND | sealed | 13 | sealed | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 08/20/15 | | | | NT | NT | NT | NT | NT | NT | sealed | NT | sealed | NT | NT | NT | NT | NT | ND | NT | NT | NT | NT | ND |
| | 11/18/15 | | | | ND | ND | ND | NT | ND | ND | sealed | 15 | sealed | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 04/25/16 | | | | NT | NT | NT | NT | NT | NT | sealed | NT | sealed | NT | NT | NT | NT | NT | ND | NT | NT | NT | NT | ND |
| | 06/16/16 | | | | ND | ND | ND | NT | ND | ND | sealed | 8.1 | sealed | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 08/17/16 | | | | NT | NT | NT | NT | NT | NT | sealed | NT | sealed | NT | NT | NT | NT | NT | ND | NT | NT | NT | NT | ND |
| | 11/16/16 | | | | ND | ND | ND | NT | ND | ND | sealed | 10 | sealed | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 05/30/17 | | | | ND | ND | ND | NT | ND | ND | sealed | 6.7 | sealed | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 11/21/17 | | | | ND | ND | ND | NT | ND | ND | sealed | 8.8 | sealed | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 05/31/18 | | | | ND | ND | ND | NT | ND | ND | sealed | 3.7 | sealed | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 10/31/18 | | | | ND | ND | ND | NT | ND | ND | sealed | 6.5 | sealed | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 05/28/19 | | | | ND | ND | ND | NT | ND | ND | sealed | 3.4 | sealed | ND | Inaccessible | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 10/15/19 | | | | ND | ND | ND | NT | ND | ND | sealed | 5.3 | sealed | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 06/03/20 | | | | ND | ND | ND | NT | ND | ND | sealed | 4.38 | sealed | ND | Inaccessible | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 10/07/20 | | | | ND | ND | ND | NT | ND | ND | sealed | 5.06 | sealed | Inaccessible | Inaccessible | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 05/03/21 | | | | ND | ND | ND | NT | ND | ND | sealed | 4.49 | sealed | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 11/09/21 | | | | ND | ND | ND | NT | ND | ND | sealed | 6.41 | sealed | Inaccessible | Inaccessible | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 01/13/22 | | | | NT | NT | NT | NT | NT | NT | sealed | NT | sealed | ND | ND | NT | NT | NT | NT | NT | NT | NT | NT | NT |
| | 05/17/22 | | | | ND | ND | ND | sealed | ND | ND | sealed | 6.19 | sealed | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 10/17/22 | | | | ND | ND | ND | sealed | ND | ND | sealed | 7.01 | sealed | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 05/22/23** | | | | ND | ND | ND | sealed | ND | ND | sealed | 3.88 | sealed | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 10/5/2023*** | | | | ND | ND | ND | Sealed | ND | ND | Sealed | 5.05 | Sealed | NT | NT | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 05/20/24 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | 2.85 | Sealed | NT | NT | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 10/02/24 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | 4.07 | Sealed | Inaccessible | NT | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 05/12/25 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | 3.02 | Sealed | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 10/14/25 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | 2.69 | Sealed | Inaccessible | Sealed | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 11/24/25 | | | | NT | NT | NT | Sealed | NT | NT | Sealed | NT | Sealed | ND | Sealed | NT | NT | NT | NT | NT | ND | NT | NT | ND |
| | 12/22/25 | | | | NT | NT | NT | Sealed | NT | NT | Sealed | NT | Sealed | NT | Sealed | NT | NT | NT | NT | NT | ND | NT | NT | ND |
| Vinyl chloride | 04/24/08 | 1 | 2 | µg/L | ND | 62 | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND |
| | 05/22/08 | | (2) | | ND | 72 (72) | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND |
| | 06/18/08 | | | | ND | 72 | ND | ND | 2.3 | ND | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND |
| | 08/13/08 | | | | ND | 55 | ND | ND | 1.2 | ND | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND |
| | 09/24/08 | | | | ND | 52 | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND |
| | 04/27/09 | | | | ND | 68 | ND | NT | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | NT | NT | ND |
| | 10/26/09 | | | | ND | 92 (67) | ND | NT | ND (ND) | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | ND |
| | 11/23/09 | | | | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND | ND | NT | NT | NT | NT | NT | NT | NT |
| | 12/17/09 | | | | ND | 39 (29) | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | ND |
| | 04/13/10 | | | | ND | 79 | ND | NT | ND | ND | ND | ND | ND | ND | ND | 1.8 | 2.3 | NT | NT | NT | NT | NT | NT | ND |
| | 05/18/10 | | | | NT | NT | NT | NT | NT | NT | ND | ND | ND | ND | ND | 1 | 1.4 | NT | NT | NT | NT | NT | NT | ND |
| | 06/21/10 | | | | NT | NT | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | ND |
| | 07/09/10 | | | | NT | 49 | NT | NT | ND | NT | NT | ND | NT | NT | NT | ND | ND | NT | NT | NT | NT | NT | NT | ND |
| | 08/18/10 | | | | NT | NT | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | ND |
| | 10/18/10 | | | | ND | 40 | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | ND |
| | 05/10/11 | | | | ND | 41 | ND | NT | ND | ND | ND | ND | ND | ND | ND | 2.5 | ND | NT | NT | NT | NT | NT | NT | ND |
| | 10/19/11 | | | | ND | 29 | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | ND |
| | 04/24/12 | | | | ND | 56 | ND | NT | ND | ND | ND | ND | ND | ND | ND | 2.6 | ND | NT | NT | NT | NT | NT | NT | ND |
| | 08/06/12 | | | | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND | NT | NT | NT | NT | NT | NT |
| | 10/25/12* | | | | ND | 81 | ND | NT | ND | ND | ND | dry | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | ND* | NT |
| | 05/07/13 | | | | Dry | 68 | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | 1.8 | ND | NT | NT | NT | NT | ND | ND |
| | 11/11/13 | | | | ND | 43 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | 1.1 | NT | NT | NT | NT | ND | ND |
| | 12/12/13 | | | | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND | NT | NT | NT | NT | NT | ND |
| | 05/13/14 | | | | Dry | 73 | ND | ND | ND | ND | ND | ND | ND | ND | ND | 1.3 | ND | 1 | NT | NT | NT | NT | ND | ND |
| | 11/12/14 | | | | ND | 19 | ND | NT | ND | ND | sealed | ND | sealed | ND | ND | frozen | frozen | ND | ND | NT | NT | NT | ND | ND |
| | 03/18/15 | | | | NT | NT | NT | NT | NT | NT | sealed | NT | sealed | NT | NT | NT | NT | NT | ND | NT | NT | NT | NT | ND |
| | 05/27/15 | | | | ND | 33 | ND | NT | ND | ND | sealed | ND | sealed | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 08/20/15 | | | | NT | NT | NT | NT | NT | NT | sealed | NT | sealed | NT | NT | NT | NT | NT | ND | NT | NT | NT | NT | ND |
| | 11/18/15 | | | | ND | 30 | ND | NT | ND | ND | sealed | ND | sealed | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 04/25/16 | | | | NT | NT | NT | NT | NT | NT | sealed | NT | sealed | NT | NT | NT | NT | NT | ND | NT | NT | NT | NT | ND |
| | 06/16/16 | | | | ND | 34 | ND | NT | ND | ND | sealed | ND | sealed | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 08/17/16 | | | | NT | NT | NT | NT | NT | NT | sealed | NT | sealed | NT | NT | NT | NT | NT | ND | NT | NT | NT | NT | ND |
| | 11/16/16 | | | | ND | 56 | ND | NT | ND | ND | sealed | ND | sealed | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 05/30/17 | | | | ND | 49 | ND | NT | ND | ND | sealed | ND | sealed | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 11/21/17 | | | | ND | 52 | ND | NT | ND | ND | sealed | ND | sealed | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 05/31/18 | | | | ND | 44 | ND | NT | ND | ND | sealed | ND | sealed | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 10/31/18 | | | | ND | 34 | ND | NT | ND | ND | sealed | ND | sealed | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 05/28/19 | | | | ND | 36 | ND | NT | ND | ND | sealed | ND | sealed | ND | Inaccessible | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 10/15/19 | | | | ND | 28 | ND | NT | ND | ND | sealed | ND | sealed | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 06/03/20 | | | | ND | 36 | ND | NT | ND | ND | sealed | ND | sealed | ND | Inaccessible | ND | ND | ND | ND | NT | NT | NT | ND | ND |

# Table 8 - Semi-Annual Detection Monitoring VOC Detection Results (2008-Present)

Dickinson Landfill - Spirit Lake, Iowa

Permit No. 30-SDP-01-75P

| Detection Parameters (IDNR) [1] | Date | RL | MCL [2] | Units | MW-11A | MW-12A | MW-13A | MW-18A | MW-19A | MW-21A | MW-22 | MW-23A | MW-29 | MW-34A | MW-36A | MW-37A | MW-38A | MW-39A | MW-40A | SW-1 | MW-41A | GU-B&GU-C | GW Holding Pond | Blank |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Vinyl chloride | 10/07/20 | 1 | 2 | µg/L | ND | 24.3 | ND | NT | ND | ND | sealed | ND | sealed | Inaccessible | Inaccessible | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 05/03/21 | | (2) | | ND | 20.8 | ND | NT | ND | ND | sealed | ND | sealed | ND | ND | ND | ND | ND | ND | ND | NT | ND | ND | ND |
| | 11/09/21 | | | | ND | 29.4 | ND | NT | ND | ND | sealed | ND | sealed | Inaccessible | Inaccessible | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 01/13/22 | | | | NT | NT | NT | NT | NT | NT | sealed | NT | sealed | ND | ND | NT | NT | NT | NT | NT | NT | NT | NT | NT |
| | 05/17/22 | | | | ND | 18.4 | ND | sealed | ND | ND | sealed | ND | sealed | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 10/17/22 | | | | ND | 34.4 | ND | sealed | ND | ND | sealed | ND | sealed | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 05/22/23** | | | | ND | 24.3 | ND | sealed | ND | ND | sealed | ND | sealed | ND | ND | ND | ND | ND | ND | ND | NT | ND | ND | ND |
| | 10/5/2023*** | | | | ND | 22.8 | ND | Sealed | ND | ND | Sealed | ND | Sealed | NT | NT | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 05/20/24 | | | | ND | 9.67 | ND | Sealed | ND | ND | Sealed | ND | Sealed | NT | NT | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 10/02/24 | | | | ND | 16.4 | ND | Sealed | ND | ND | Sealed | ND | Sealed | Inaccessible | NT | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 05/12/25 | | | | ND | 25.1 | ND | Sealed | ND | ND | Sealed | ND | Sealed | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 10/14/25 | | | | ND | 20.4 | ND | Sealed | ND | ND | Sealed | ND | Sealed | Inaccessible | Sealed | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 11/24/25 | | | | NT | NT | NT | Sealed | NT | NT | Sealed | NT | Sealed | ND | Sealed | NT | NT | NT | NT | NT | ND | NT | NT | ND |
| | 12/22/25 | | | | NT | NT | NT | Sealed | NT | NT | Sealed | NT | Sealed | NT | Sealed | NT | NT | NT | NT | NT | ND | NT | NT | ND |
| cis-1,2-Dichloroethene | 04/24/08 | 1 | 70 | µg/L | ND | 170 | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND |
| | 05/22/08 | | (70) | | ND | 190 (200) | ND | ND | 1.2 | ND | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND |
| | 06/18/08 | | | | ND | 210 | ND | ND | 3.6 | ND | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND |
| | 08/13/08 | | | | ND | 190 | ND | ND | 2.5 | ND | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND |
| | 09/24/08 | | | | ND | 190 | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND |
| | 04/27/09 | | | | ND | 180 | ND | NT | ND | ND | ND | 3.6 | ND | ND | ND | NT | NT | NT | NT | NT | NT | NT | NT | ND |
| | 10/26/09 | | | | ND | 120 (150) | ND | NT | ND (ND) | ND | ND | 4.5 | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | ND |
| | 11/23/09 | | | | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND | ND | NT | NT | NT | NT | NT | NT | NT |
| | 12/17/09 | | | | ND | 170 (160) | ND | NT | ND | ND | ND | 3.9 | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | ND |
| | 04/13/10 | | | | ND | 130 | ND | NT | ND | ND | ND | 2.9 | ND | ND | ND | ND | 2.8 | NT | NT | NT | NT | NT | NT | ND |
| | 05/18/10 | | | | NT | NT | NT | NT | NT | NT | ND | 2.6 | ND | ND | ND | ND | 3.7 | NT | NT | NT | NT | NT | NT | ND |
| | 06/21/10 | | | | NT | NT | NT | NT | NT | NT | ND | 4.1 | ND | ND | ND | ND | 2.2 | NT | NT | NT | NT | NT | NT | ND |
| | 07/09/10 | | | | NT | 180 | NT | NT | 1.2 | NT | NT | 4.5 | NT | NT | NT | ND | 2.1 | NT | NT | NT | NT | NT | NT | ND |
| | 08/18/10 | | | | NT | NT | NT | NT | NT | NT | ND | 3.6 | ND | ND | ND | ND | 1.5 | NT | NT | NT | NT | NT | NT | ND |
| | 10/18/10 | | | | ND | 160 | ND | NT | ND | ND | ND | 5.0 | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | ND |
| | 05/10/11 | | | | ND | 110 | ND | NT | ND | ND | ND | 1.5 | ND | ND | ND | ND | 3 | NT | NT | NT | NT | NT | NT | ND |
| | 10/19/11 | | | | ND | 150 | ND | NT | ND | ND | ND | 9 | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | ND |
| | 04/24/12 | | | | ND | 170 | ND | NT | ND | ND | ND | 7.8 | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | ND |
| | 08/06/12 | | | | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND | NT | NT | NT | NT | NT | NT |
| | 10/25/12* | | | | ND | 120 | ND | NT | ND | ND | ND | dry | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | 2.6* | NT |
| | 05/07/13 | | | | Dry | 130 | ND | NT | ND | ND | ND | 4.2 | ND | ND | ND | ND | 2.8 | ND | NT | NT | NT | NT | ND | ND |
| | 11/11/13 | | | | ND | 12 | ND | ND | ND | ND | ND | 4.8 | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | ND | ND |
| | 05/13/14 | | | | Dry | 44 | ND | ND | ND | ND | ND | 4.8 | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | ND | ND |
| | 11/12/14 | | | | ND | 27 | ND | NT | ND | ND | sealed | 4.8 | sealed | ND | ND | frozen | frozen | ND | ND | NT | NT | NT | ND | ND |
| | 03/18/15 | | | | NT | NT | NT | NT | NT | NT | sealed | NT | sealed | NT | NT | NT | NT | NT | ND | NT | NT | NT | NT | ND |
| | 05/27/15 | | | | ND | 55 | ND | NT | ND | ND | sealed | 5.1 | sealed | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 08/20/15 | | | | NT | NT | NT | NT | NT | NT | sealed | NT | sealed | NT | NT | NT | NT | NT | ND | NT | NT | NT | NT | ND |
| | 11/18/15 | | | | ND | 54 | ND | NT | ND | ND | sealed | 4.8 | sealed | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 04/25/16 | | | | NT | NT | NT | NT | NT | NT | sealed | NT | sealed | NT | NT | NT | NT | NT | ND | NT | NT | NT | NT | ND |
| | 06/16/16 | | | | ND | 16 | ND | NT | ND | ND | sealed | 1.9 | sealed | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 08/17/16 | | | | NT | NT | NT | NT | NT | NT | sealed | NT | sealed | NT | NT | NT | NT | NT | ND | NT | NT | NT | NT | ND |
| | 11/16/16 | | | | ND | 19 | ND | NT | ND | ND | sealed | 3.2 | sealed | ND | ND | ND | ND | ND | ND | NT | NT | NT | 1.9 | ND |
| | 05/30/17 | | | | ND | 12 | ND | NT | ND | ND | sealed | 2.8 | sealed | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 11/21/17 | | | | ND | 36 | ND | NT | ND | ND | sealed | 3.7 | sealed | ND | ND | ND | ND | ND | ND | NT | NT | NT | 1 | ND |
| | 04/12/18 | | | | NT | NT | NT | NT | NT | NT | sealed | NT | sealed | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND | NT |
| | 05/31/18 | | | | ND | 35 | ND | NT | 1 | ND | sealed | 2.3 | sealed | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 10/31/18 | | | | ND | 42 | ND | NT | ND | ND | sealed | 3.4 | sealed | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 05/28/19 | | | | ND | 18 | ND | NT | ND | ND | sealed | 2 | sealed | ND | Inaccessible | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 10/15/19 | | | | ND | 24 | ND | NT | ND | ND | sealed | 3.3 | sealed | ND | ND | ND | ND | ND | ND | NT | NT | NT | 1.6 | ND |
| | 06/03/20 | | | | ND | 23.2 | ND | NT | ND | ND | sealed | 2.64 | sealed | ND | Inaccessible | ND | ND | ND | ND | NT | NT | NT | 1.05 | ND |
| | 10/07/20 | | | | ND | 28.3 | ND | NT | ND | ND | sealed | 3.93 | sealed | Inaccessible | Inaccessible | ND | ND | ND | ND | NT | NT | NT | 2.96 | ND |
| | 05/03/21 | | | | ND | 8.42 | ND | NT | ND | ND | sealed | 3.15 | sealed | ND | ND | ND | ND | ND | ND | ND | NT | ND | ND | ND |
| | 11/09/21 | | | | ND | 19.8 | ND | NT | ND | ND | sealed | 3.96 | sealed | Inaccessible | Inaccessible | ND | 1.05 | ND | ND | NT | NT | NT | 2.75 | ND |
| | 01/13/22 | | | | NT | NT | NT | NT | NT | NT | sealed | NT | sealed | ND | ND | NT | NT | NT | NT | NT | NT | NT | NT | NT |
| | 05/17/22 | | | | ND | 24.9 | ND | sealed | ND | ND | sealed | 3.18 | sealed | ND | ND | ND | ND | ND | ND | ND | NT | ND | ND | ND |
| | 10/17/22 | | | | ND | 23.6 | ND | sealed | ND | ND | sealed | 4.15 | sealed | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 05/22/23** | | | | ND | 16.2 | ND | sealed | ND | ND | sealed | 2.06 | sealed | ND | ND | ND | ND | ND | ND | ND | NT | ND | ND | ND |
| | 10/5/2023*** | | | | ND | 38 | ND | Sealed | ND | ND | Sealed | 2.63 | Sealed | NT | NT | ND | ND | ND | ND | NT | NT | NT | 2.66 | ND |
| | 05/20/24 | | | | ND | 13.9 | ND | Sealed | ND | ND | Sealed | 1.16 | Sealed | NT | NT | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 10/02/24 | | | | ND | 22.6 | ND | Sealed | ND | ND | Sealed | 2.1 | Sealed | Inaccessible | NT | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 05/12/25 | | | | ND | 30.2 | ND | Sealed | ND | ND | Sealed | 1.35 | Sealed | ND | ND | ND | 1.31 | ND | ND | NT | NT | NT | ND | ND |
| | 10/14/25 | | | | ND | 26.5 | ND | Sealed | ND | ND | Sealed | 2.35 | Sealed | Inaccessible | Sealed | ND | 2.31 | ND | ND | ND | ND | ND | ND | ND |
| | 11/24/25 | | | | NT | NT | NT | Sealed | NT | NT | Sealed | NT | Sealed | ND | Sealed | NT | NT | NT | NT | NT | ND | NT | NT | ND |
| | 12/22/25 | | | | NT | NT | NT | Sealed | NT | NT | Sealed | NT | Sealed | NT | Sealed | NT | NT | NT | NT | NT | ND | NT | NT | ND |
| trans-1,2-Dichloroethene | 04/24/08 | 1 | 100 | µg/L | ND | 9.7 | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND |
| | 05/22/08 | | (100) | | ND | 9.4 (9.3) | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND |
| | 06/18/08 | | | | ND | 8.9 | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND |
| | 08/13/08 | | | | ND | 8 | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND |
| | 09/24/08 | | | | ND | 8.0 | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND |
| | 04/27/09 | | | | ND | 8.8 | ND | NT | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | NT | NT | ND |
| | 10/26/09 | | | | ND | 8 (8.3) | ND | NT | ND (ND) | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | ND |
| | 11/23/09 | | | | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND | ND | NT | NT | NT | NT | NT | NT | NT |
| | 12/17/09 | | | | ND | 7.7 (6.8) | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | ND |
| | 04/13/10 | | | | ND | 7.3 | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | ND |
| | 05/18/10 | | | | NT | NT | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | ND |
| | 06/21/10 | | | | NT | NT | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | ND |
| | 07/09/10 | | | | NT | 8.8 | NT | NT | ND | NT | NT | ND | NT | NT | NT | ND | ND | NT | NT | NT | NT | NT | NT | ND |
| | 08/18/10 | | | | NT | NT | NT | NT | NT | NT | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | ND |
| | 10/18/10 | | | | ND | 6.8 | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | ND |
| | 05/10/11 | | | | ND | 7.9 | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | ND |
| | 10/19/11 | | | | ND | 8.4 | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | ND |
| | 04/24/12 | | | | ND | 11 | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | ND |
| | 08/06/12 | | | | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND | NT | NT | NT | NT | NT | NT |
| | 10/25/12* | | | | ND | 7.2 | ND | NT | ND | ND | ND | dry | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | ND* | NT |
| | 05/07/13 | | | | Dry | 9 | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | ND | ND |
| | 11/11/13 | | | | ND | 2.7 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | ND | ND |
| | 05/13/14 | | | | Dry | 4.8 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | ND | ND |
| | 11/12/14 | | | | ND | 7.2 | ND | NT | ND | ND | sealed | ND | sealed | ND | ND | frozen | frozen | ND | ND | NT | NT | NT | ND | ND |
| | 03/18/15 | | | | NT | NT | NT | NT | NT | NT | sealed | NT | sealed | NT | NT | NT | NT | NT | ND | NT | NT | NT | NT | ND |

# Table 8 - Semi-Annual Detection Monitoring VOC Detection Results (2008-Present)

Dickinson Landfill - Spirit Lake, Iowa

Permit No. 30-SDP-01-75P

| Detection Parameters (IDNR) [1] | Date | RL | MCL [2] | Units | MW-11A | MW-12A | MW-13A | MW-18A | MW-19A | MW-21A | MW-22 | MW-23A | MW-29 | MW-34A | MW-36A | MW-37A | MW-38A | MW-39A | MW-40A | SW-1 | MW-41A | GU-B&GU-C | GW Holding Pond | Blank |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| trans-1,2-Dichloroethene | 05/27/15 | 1 | 100 | µg/L | ND | 8.8 | ND | NT | ND | ND | sealed | ND | sealed | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 08/20/15 | | (100) | | NT | NT | NT | NT | NT | NT | sealed | NT | sealed | NT | NT | NT | NT | NT | ND | NT | NT | NT | NT | ND |
| | 11/18/15 | | | | ND | 8.4 | ND | NT | ND | ND | sealed | ND | sealed | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 04/25/16 | | | | NT | NT | NT | NT | NT | NT | sealed | NT | sealed | NT | NT | NT | NT | NT | ND | NT | NT | NT | NT | ND |
| | 06/16/16 | | | | ND | 5.3 | ND | NT | ND | ND | sealed | ND | sealed | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 08/17/16 | | | | NT | NT | NT | NT | NT | NT | sealed | NT | sealed | NT | NT | NT | NT | NT | ND | NT | NT | NT | NT | ND |
| | 11/16/16 | | | | ND | 5.3 | ND | NT | ND | ND | sealed | ND | sealed | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 05/30/17 | | | | ND | 3.5 | ND | NT | ND | ND | sealed | ND | sealed | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 11/21/17 | | | | ND | 5 | ND | NT | ND | ND | sealed | ND | sealed | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 05/31/18 | | | | ND | 5.2 | ND | NT | ND | ND | sealed | ND | sealed | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 10/31/18 | | | | ND | 6.4 | ND | NT | ND | ND | sealed | ND | sealed | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 05/28/19 | | | | ND | 4.4 | ND | NT | ND | ND | sealed | ND | sealed | ND | Inaccessible | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 10/15/19 | | | | ND | 4.4 | ND | NT | ND | ND | sealed | ND | sealed | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 06/03/20 | | | | ND | 4.95 | ND | NT | ND | ND | sealed | ND | sealed | ND | Inaccessible | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 10/07/20 | | | | ND | 4.34 | ND | NT | ND | ND | sealed | ND | sealed | Inaccessible | Inaccessible | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 05/03/21 | | | | ND | 2.86 | ND | NT | ND | ND | sealed | ND | sealed | ND | ND | ND | ND | ND | ND | ND | NT | ND | ND | ND |
| | 11/09/21 | | | | ND | 3.78 | ND | NT | ND | ND | sealed | ND | sealed | Inaccessible | Inaccessible | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 01/13/22 | | | | NT | NT | NT | NT | NT | NT | sealed | NT | sealed | ND | ND | NT | NT | NT | NT | NT | NT | NT | NT | NT |
| | 05/17/22 | | | | ND | 4.32 | ND | sealed | ND | ND | sealed | ND | sealed | ND | ND | ND | ND | ND | ND | ND | NT | ND | ND | ND |
| | 10/17/22 | | | | ND | 4.39 | ND | sealed | ND | ND | sealed | ND | sealed | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 05/22/23** | | | | ND | 2.27 | ND | sealed | ND | ND | sealed | ND | sealed | ND | ND | ND | ND | ND | ND | ND | NT | ND | ND | ND |
| | 10/5/2023*** | | | | ND | 4.18 | ND | Sealed | ND | ND | Sealed | ND | Sealed | NT | NT | ND | ND | ND | ND | ND | NT | NT | NT | ND |
| | 05/20/24 | | | | ND | 1.95 | ND | Sealed | ND | ND | Sealed | ND | Sealed | NT | NT | ND | ND | ND | ND | ND | NT | NT | NT | ND |
| | 10/02/24 | | | | ND | 2.57 | ND | Sealed | ND | ND | Sealed | ND | Sealed | Inaccessible | NT | ND | ND | ND | ND | ND | NT | NT | NT | ND |
| | 05/12/25 | | | | ND | 3.88 | ND | Sealed | ND | ND | Sealed | ND | Sealed | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND |
| | 10/14/25 | | | | ND | 3.18 | ND | Sealed | ND | ND | Sealed | ND | Sealed | Inaccessible | Sealed | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 11/24/25 | | | | NT | NT | NT | Sealed | NT | NT | Sealed | NT | Sealed | ND | Sealed | NT | NT | NT | NT | NT | NT | ND | NT | ND |
| | 12/22/25 | | | | NT | NT | NT | Sealed | NT | NT | Sealed | NT | Sealed | NT | Sealed | NT | NT | NT | NT | NT | NT | ND | NT | NT |
| Acetone | 04/13/10 | 5 | na | µg/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | ND |
| | 08/18/10 | | (6,300) | | NT | NT | NT | NT | NT | NT | 7.4 | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | 7.1 |
| | 10/18/10 | | | | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | ND |
| | 05/10/11 | | | | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | ND |
| | 10/19/11 | | | | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | ND |
| | 04/24/12 | | | | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | ND |
| | 08/06/12 | | | | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND | NT | NT | NT | NT | NT | NT |
| | 10/25/12 | | | | ND | ND | ND | NT | ND | ND | ND | dry | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | ND* | NT |
| | 05/07/13 | | | | Dry | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 11/11/13 | | | | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 05/13/14 | | | | Dry | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 11/12/14 | | | | ND | ND | ND | NT | ND | ND | sealed | ND | sealed | ND | ND | frozen | frozen | ND | ND | NT | NT | NT | ND | ND |
| | 03/18/15 | | | | NT | NT | NT | NT | NT | NT | sealed | NT | sealed | NT | NT | NT | NT | NT | ND | NT | NT | NT | NT | ND |
| | 05/27/15 | | | | ND | ND | ND | NT | ND | ND | sealed | ND | sealed | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 08/20/15 | | | | NT | NT | NT | NT | NT | NT | sealed | NT | sealed | NT | NT | NT | NT | NT | ND | NT | NT | NT | NT | ND |
| | 11/18/15 | | | | ND | ND | 65 | NT | ND | ND | sealed | ND | sealed | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 04/25/16 | | | | NT | NT | NT | NT | NT | NT | sealed | NT | sealed | NT | NT | NT | NT | NT | ND | NT | NT | NT | NT | ND |
| | 06/16/16 | | | | ND | ND | ND | NT | ND | ND | sealed | ND | sealed | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 08/17/16 | | | | NT | NT | NT | NT | NT | NT | sealed | NT | sealed | NT | NT | NT | NT | NT | ND | NT | NT | NT | NT | ND |
| | 11/16/16 | | | | ND | ND | ND | NT | ND | ND | sealed | ND | sealed | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 05/30/17 | | | | ND | ND | ND | NT | ND | ND | sealed | ND | sealed | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 11/21/17 | | | | ND | ND | ND | NT | ND | ND | sealed | ND | sealed | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 05/31/18 | | | | ND | ND | ND | NT | ND | ND | sealed | ND | sealed | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 10/31/18 | | | | ND | ND | ND | NT | ND | ND | sealed | ND | sealed | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 05/28/19 | | | | ND | ND | ND | NT | ND | ND | sealed | 71 | sealed | ND | Inaccessible | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 10/15/19 | | | | ND | ND | ND | NT | ND | ND | sealed | ND | sealed | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 06/03/20 | 25 | | | ND | ND | ND | NT | ND | ND | sealed | ND | sealed | ND | Inaccessible | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 10/07/20 | | | | ND | ND | ND | NT | ND | ND | sealed | ND | sealed | Inaccessible | Inaccessible | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 05/03/21 | | | | ND | ND | ND | ND | ND | ND | sealed | ND | sealed | ND | ND | ND | ND | ND | ND | ND | NT | ND | ND | ND |
| | 11/09/21 | | | | ND | ND | ND | NT | ND | ND | sealed | ND | sealed | Inaccessible | Inaccessible | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 01/13/22 | | | | NT | NT | NT | NT | NT | NT | sealed | NT | sealed | ND | ND | NT | NT | NT | NT | NT | NT | NT | NT | NT |
| | 05/17/22 | | | | ND | 85.2 | ND | sealed | ND | ND | sealed | ND | sealed | ND | ND | ND | ND | ND | ND | ND | NT | ND | ND | ND |
| | 10/17/22 | | | | ND | ND | ND | sealed | ND | ND | sealed | ND | sealed | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 05/22/23** | | | | ND | 48.5 | 92.9 | sealed | ND | ND | sealed | ND | sealed | ND | ND | ND | ND | ND | ND | ND | NT | ND | ND | ND |
| | 10/5/2023*** | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | NT | NT | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 05/20/24 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | NT | NT | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 10/02/24 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | Inaccessible | NT | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 05/12/25 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | Inaccessible | NT | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 10/14/25 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | 40.8 | Sealed | Inaccessible | Sealed | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 11/24/25 | | | | NT | NT | NT | Sealed | NT | NT | Sealed | NT | Sealed | ND | Sealed | NT | NT | NT | NT | NT | NT | ND | NT | ND |
| | 12/22/25 | | | | NT | NT | NT | Sealed | NT | NT | Sealed | NT | Sealed | NT | Sealed | NT | NT | NT | NT | NT | NT | ND | NT | NT |
| 2-Butanone (MEK) | 04/13/10 | 1 | na | µg/L | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | ND |
| | 10/18/10 | | (4,000) | | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | ND |
| | 05/10/11 | | | | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | ND |
| | 10/19/11 | | | | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | ND |
| | 04/24/12 | | | | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | ND |
| | 08/06/12 | | | | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND | NT | NT | NT | NT | NT | NT |
| | 10/25/12* | | | | ND | ND | ND | NT | ND | ND | ND | dry | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | ND* | NT |
| | 05/07/13 | | | | Dry | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 11/11/13 | | | | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 05/13/14 | | | | Dry | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 11/12/14 | | | | ND | ND | ND | NT | ND | ND | sealed | ND | sealed | ND | ND | frozen | frozen | ND | ND | NT | NT | NT | ND | ND |
| | 03/18/15 | | | | NT | NT | NT | NT | NT | NT | sealed | NT | sealed | NT | NT | NT | NT | NT | ND | NT | NT | NT | NT | ND |
| | 05/27/15 | | | | ND | ND | ND | NT | ND | ND | sealed | ND | sealed | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 08/20/15 | | | | NT | NT | NT | NT | NT | NT | sealed | NT | sealed | NT | NT | NT | NT | NT | ND | NT | NT | NT | NT | ND |
| | 11/18/15 | | | | ND | ND | ND | NT | ND | ND | sealed | ND | sealed | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 04/25/16 | | | | NT | NT | NT | NT | NT | NT | sealed | NT | sealed | NT | NT | NT | NT | NT | ND | NT | NT | NT | NT | ND |
| | 06/16/16 | | | | ND | ND | ND | NT | ND | ND | sealed | ND | sealed | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 08/17/16 | | | | NT | NT | NT | NT | NT | NT | sealed | NT | sealed | NT | NT | NT | NT | NT | ND | NT | NT | NT | NT | ND |
| | 11/16/16 | | | | ND | ND | ND | NT | ND | ND | sealed | ND | sealed | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 05/30/17 | | | | ND | ND | ND | NT | ND | ND | sealed | ND | sealed | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 11/21/17 | | | | ND | ND | ND | NT | ND | ND | sealed | ND | sealed | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 05/31/18 | | | | ND | ND | ND | NT | ND | ND | sealed | ND | sealed | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND |

# Table 8 - Semi-Annual Detection Monitoring VOC Detection Results (2008-Present)

Dickinson Landfill - Spirit Lake, Iowa

Permit No. 30-SDP-01-75P

| Detection Parameters (IDNR) [1] | Date | RL | MCL [2] | Units | MW-11A | MW-12A | MW-13A | MW-18A | MW-19A | MW-21A | MW-22 | MW-23A | MW-29 | MW-34A | MW-36A | MW-37A | MW-38A | MW-39A | MW-40A | SW-1 | MW-41A | GU-B&GU-C | GW Holding Pond | Blank |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2-Butanone | 10/31/18 | 1 | na | µg/L | ND | ND | ND | NT | ND | ND | sealed | ND | sealed | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| (MEK) | 05/28/19 | | (4,000) | | ND | ND | ND | NT | ND | ND | sealed | ND | sealed | ND | Inaccessible | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 10/15/19 | | | | ND | ND | ND | NT | ND | ND | sealed | ND | sealed | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 06/03/20 | *10* | | | ND | ND | ND | NT | ND | ND | sealed | ND | sealed | ND | Inaccessible | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 10/07/20 | | | | ND | ND | ND | NT | ND | ND | sealed | ND | sealed | Inaccessible | Inaccessible | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 05/03/21 | | | | ND | ND | ND | ND | ND | ND | sealed | ND | sealed | ND | ND | ND | ND | ND | ND | ND | NT | ND | ND | ND |
| | 11/09/21 | | | | ND | ND | ND | NT | ND | ND | sealed | ND | sealed | Inaccessible | Inaccessible | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 01/13/22 | | | | NT | NT | NT | NT | NT | NT | sealed | NT | sealed | ND | ND | NT | NT | NT | NT | NT | NT | NT | NT | NT |
| | 05/17/22 | | | | ND | ND | ND | sealed | ND | ND | sealed | ND | sealed | ND | ND | ND | ND | ND | ND | ND | NT | ND | ND | ND |
| | 10/17/22 | | | | ND | ND | ND | sealed | ND | ND | sealed | ND | sealed | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 05/22/23** | | | | ND | ND | ND | sealed | ND | ND | sealed | ND | sealed | ND | ND | ND | ND | ND | ND | ND | NT | ND | ND | ND |
| | 10/5/2023*** | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | NT | NT | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 05/20/24 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | NT | NT | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 10/02/24 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | Inaccessible | NT | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 05/12/25 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 10/14/25 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | Inaccessible | Sealed | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 11/24/25 | | | | NT | NT | NT | Sealed | NT | NT | Sealed | NT | Sealed | ND | Sealed | NT | NT | NT | NT | NT | ND | NT | NT | ND |
| | 12/22/25 | | | | NT | NT | NT | Sealed | NT | NT | Sealed | NT | Sealed | NT | Sealed | NT | NT | NT | NT | NT | ND | NT | NT | ND |
| Toluene | 04/13/10 | 1 | 1,000 | µg/L | ND | 2.4 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | ND |
| | 10/18/10 | | (1,000) | | ND | ND | ND | NT | ND | ND | 1.8 | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | ND |
| | 05/10/11 | | | | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | ND |
| | 10/19/11 | | | | ND | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | ND |
| | 04/24/12 | | | | ND | ND | ND | NT | ND | ND | 13 | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | ND |
| | 08/06/12 | | | | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND | NT | NT | NT | NT | NT | NT |
| | 10/25/12 | | | | ND | ND | ND | NT | ND | ND | ND | dry | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | ND* | NT |
| | 05/07/13 | | | | Dry | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | ND | ND |
| | 11/11/13 | | | | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | ND | ND |
| | 05/13/14 | | | | Dry | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | ND | ND |
| | 11/12/14 | | | | ND | 1 | ND | NT | ND | ND | sealed | ND | sealed | ND | ND | frozen | frozen | ND | ND | NT | NT | NT | ND | ND |
| | 03/18/15 | | | | NT | NT | NT | NT | NT | NT | sealed | NT | sealed | NT | NT | NT | NT | ND | NT | NT | NT | NT | NT | ND |
| | 05/27/15 | | | | ND | ND | ND | NT | ND | ND | sealed | ND | sealed | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 08/20/15 | | | | NT | NT | NT | NT | NT | NT | sealed | NT | sealed | NT | NT | NT | NT | ND | NT | NT | NT | NT | NT | ND |
| | 11/18/15 | | | | ND | ND | ND | NT | ND | ND | sealed | ND | sealed | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 04/25/16 | | | | NT | NT | NT | NT | NT | NT | sealed | NT | sealed | NT | NT | NT | NT | ND | NT | NT | NT | NT | NT | ND |
| | 06/16/16 | | | | ND | ND | ND | NT | ND | ND | sealed | ND | sealed | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 08/17/16 | | | | NT | NT | NT | NT | NT | NT | sealed | NT | sealed | NT | NT | NT | NT | ND | NT | NT | NT | NT | NT | ND |
| | 11/16/16 | | | | ND | ND | ND | NT | ND | ND | sealed | ND | sealed | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 05/30/17 | | | | ND | ND | ND | NT | ND | ND | sealed | ND | sealed | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 11/21/17 | | | | ND | ND | ND | NT | ND | ND | sealed | ND | sealed | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 05/31/18 | | | | ND | ND | ND | NT | ND | ND | sealed | ND | sealed | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 10/31/18 | | | | ND | ND | ND | NT | ND | ND | sealed | ND | sealed | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 05/28/19 | | | | ND | ND | ND | NT | ND | ND | sealed | ND | sealed | ND | Inaccessible | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 10/15/19 | | | | ND | ND | ND | NT | ND | ND | sealed | ND | sealed | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 06/03/20 | | | | ND | ND | ND | NT | ND | ND | sealed | ND | sealed | ND | Inaccessible | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 10/07/20 | | | | ND | ND | ND | NT | ND | ND | sealed | ND | sealed | Inaccessible | Inaccessible | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 05/03/21 | | | | ND | ND | ND | ND | ND | ND | sealed | ND | sealed | ND | ND | ND | ND | ND | ND | ND | NT | ND | ND | ND |
| | 11/09/21 | | | | ND | ND | ND | NT | ND | ND | sealed | ND | sealed | Inaccessible | Inaccessible | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 01/13/22 | | | | NT | NT | NT | NT | NT | NT | sealed | NT | sealed | ND | ND | NT | NT | NT | NT | NT | NT | NT | NT | NT |
| | 05/17/22 | | | | ND | ND | ND | sealed | ND | ND | sealed | ND | sealed | ND | ND | ND | ND | ND | ND | ND | NT | ND | ND | ND |
| | 10/17/22 | | | | ND | ND | ND | sealed | ND | ND | sealed | ND | sealed | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 05/22/23** | | | | ND | ND | ND | sealed | ND | ND | sealed | ND | sealed | ND | ND | ND | ND | ND | ND | ND | NT | ND | ND | ND |
| | 10/5/2023*** | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | NT | NT | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 05/20/24 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | NT | NT | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 10/02/24 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | Inaccessible | NT | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 05/12/25 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 10/14/25 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | Inaccessible | Sealed | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 11/24/25 | | | | NT | NT | NT | Sealed | NT | NT | Sealed | NT | ND | ND | Sealed | NT | NT | NT | NT | NT | ND | NT | NT | ND |
| | 12/22/25 | | | | NT | NT | NT | Sealed | NT | NT | Sealed | NT | NT | NT | Sealed | NT | NT | NT | NT | NT | ND | NT | NT | ND |
| Ethylbenzene | 04/24/12 | 1 | 700 | µg/L | ND | ND | ND | ND | ND | ND | 1.4 | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | ND |
| | 08/06/12 | | (700) | | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND | NT | NT | NT | NT | NT | NT |
| | 10/25/12* | | | | ND | ND | ND | NT | ND | ND | ND | dry | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | ND* | NT |
| | 05/07/13 | | | | Dry | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | ND | ND |
| | 11/11/13 | | | | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | ND | ND |
| | 05/13/14 | | | | Dry | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | ND | ND |
| | 11/12/14 | | | | ND | ND | ND | NT | ND | ND | sealed | ND | sealed | ND | ND | frozen | frozen | ND | ND | NT | NT | NT | ND | ND |
| | 03/18/15 | | | | NT | NT | NT | NT | NT | NT | sealed | NT | sealed | NT | NT | NT | NT | ND | NT | NT | NT | NT | NT | ND |
| | 05/27/15 | | | | ND | ND | ND | NT | ND | ND | sealed | ND | sealed | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 08/20/15 | | | | NT | NT | NT | NT | NT | NT | sealed | NT | sealed | NT | NT | NT | NT | ND | NT | NT | NT | NT | NT | ND |
| | 11/18/15 | | | | ND | ND | ND | NT | ND | ND | sealed | ND | sealed | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 04/25/16 | | | | NT | NT | NT | NT | NT | NT | sealed | NT | sealed | NT | NT | NT | NT | ND | NT | NT | NT | NT | NT | ND |
| | 06/16/16 | | | | ND | ND | ND | NT | ND | ND | sealed | ND | sealed | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 08/17/16 | | | | NT | NT | NT | NT | NT | NT | sealed | NT | sealed | NT | NT | NT | NT | ND | NT | NT | NT | NT | NT | ND |
| | 11/16/16 | | | | ND | ND | ND | NT | ND | ND | sealed | ND | sealed | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 05/30/17 | | | | ND | ND | ND | NT | ND | ND | sealed | ND | sealed | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 11/21/17 | | | | ND | ND | ND | NT | ND | ND | sealed | ND | sealed | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 05/31/18 | | | | ND | ND | ND | NT | ND | ND | sealed | ND | sealed | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 10/31/18 | | | | ND | ND | ND | NT | ND | ND | sealed | ND | sealed | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 05/28/19 | | | | ND | ND | ND | NT | ND | ND | sealed | ND | sealed | ND | Inaccessible | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 10/15/19 | | | | ND | ND | ND | NT | ND | ND | sealed | ND | sealed | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 06/03/20 | | | | ND | ND | ND | NT | ND | ND | sealed | ND | sealed | ND | Inaccessible | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 10/07/20 | | | | ND | ND | ND | NT | ND | ND | sealed | ND | sealed | Inaccessible | Inaccessible | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 05/03/21 | | | | ND | ND | ND | NT | ND | ND | sealed | ND | sealed | ND | ND | ND | ND | ND | ND | ND | NT | ND | ND | ND |
| | 11/09/21 | | | | ND | ND | ND | NT | ND | ND | sealed | ND | sealed | Inaccessible | Inaccessible | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 01/13/22 | | | | NT | NT | NT | NT | NT | NT | sealed | NT | sealed | ND | ND | NT | NT | NT | NT | NT | NT | NT | NT | NT |
| | 05/17/22 | | | | ND | ND | ND | sealed | ND | ND | sealed | ND | sealed | ND | ND | ND | ND | ND | ND | ND | NT | ND | ND | ND |
| | 10/17/22 | | | | ND | ND | ND | sealed | ND | ND | sealed | ND | sealed | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 05/22/23** | | | | ND | ND | ND | sealed | ND | ND | sealed | ND | sealed | ND | ND | ND | ND | ND | ND | ND | NT | ND | ND | ND |
| | 10/5/2023*** | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | NT | NT | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 05/20/24 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | NT | NT | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 10/02/24 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | Inaccessible | NT | ND | ND | ND | ND | NT | NT | NT | ND | ND |

# Table 8 - Semi-Annual Detection Monitoring VOC Detection Results (2008-Present)

Dickinson Landfill - Spirit Lake, Iowa

Permit No. 30-SDP-01-75P

| Detection Parameters (IDNR) [1] | Date | RL | MCL [2] | Units | MW-11A | MW-12A | MW-13A | MW-18A | MW-19A | MW-21A | MW-22 | MW-23A | MW-29 | MW-34A | MW-36A | MW-37A | MW-38A | MW-39A | MW-40A | SW-1 | MW-41A | GU-B&GU-C | GW Holding Pond | Blank |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Ethylbenzene | 05/12/25 | 1 | 700 | µg/L | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 10/14/25 | | (700) | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | Inaccessible | Sealed | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 11/24/25 | | | | NT | NT | NT | Sealed | NT | NT | Sealed | NT | Sealed | ND | Sealed | NT | NT | NT | NT | NT | ND | NT | NT | ND |
| | 12/22/25 | | | | NT | NT | NT | Sealed | NT | NT | Sealed | NT | Sealed | NT | Sealed | NT | NT | NT | NT | NT | ND | NT | NT | ND |
| Xylenes, Total | 04/24/12 | 3 | 10,000 | µg/L | ND | ND | ND | ND | ND | ND | 6.4 | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | NT | NT | ND |
| | 08/06/12 | | (10,000) | | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | NT | ND | NT | NT | NT | NT | NT | NT |
| | 10/25/12* | | | | ND | ND | ND | NT | ND | ND | ND | dry | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | ND* | NT |
| | 05/07/13 | | | | Dry | ND | ND | NT | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | ND | ND |
| | 11/11/13 | | | | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | ND | ND |
| | 05/13/14 | | | | Dry | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | NT | NT | NT | NT | ND | ND |
| | 11/12/14 | | | | ND | ND | ND | NT | ND | ND | sealed | ND | sealed | ND | ND | frozen | frozen | ND | ND | NT | NT | NT | ND | ND |
| | 03/18/15 | | | | NT | NT | NT | NT | NT | NT | sealed | NT | sealed | NT | NT | NT | NT | NT | ND | NT | NT | NT | NT | ND |
| | 05/27/15 | | | | ND | ND | ND | NT | ND | ND | sealed | ND | sealed | ND | ND | ND | ND | ND | ND | ND | NT | NT | ND | ND |
| | 08/20/15 | | | | NT | NT | NT | NT | NT | NT | sealed | NT | sealed | NT | NT | NT | NT | NT | ND | NT | NT | NT | NT | ND |
| | 11/18/15 | | | | ND | ND | ND | NT | ND | ND | sealed | ND | sealed | ND | ND | ND | ND | ND | ND | ND | NT | NT | ND | ND |
| | 04/25/16 | | | | NT | NT | NT | NT | NT | NT | sealed | NT | sealed | NT | NT | NT | NT | NT | ND | NT | NT | NT | NT | ND |
| | 06/16/16 | | | | ND | ND | ND | NT | ND | ND | sealed | ND | sealed | ND | ND | ND | ND | ND | ND | ND | NT | NT | ND | ND |
| | 08/17/16 | | | | NT | NT | NT | NT | NT | NT | sealed | NT | sealed | NT | NT | NT | NT | NT | ND | NT | NT | NT | NT | ND |
| | 11/16/16 | | | | ND | ND | ND | NT | ND | ND | sealed | ND | sealed | ND | ND | ND | ND | ND | ND | ND | NT | NT | ND | ND |
| | 05/30/17 | | | | ND | ND | ND | NT | ND | ND | sealed | ND | sealed | ND | ND | ND | ND | ND | ND | ND | NT | NT | ND | ND |
| | 11/21/17 | | | | ND | ND | ND | NT | ND | ND | sealed | ND | sealed | ND | ND | ND | ND | ND | ND | ND | NT | NT | ND | ND |
| | 05/31/18 | | | | ND | ND | ND | NT | ND | ND | sealed | ND | sealed | ND | ND | ND | ND | ND | ND | ND | NT | NT | ND | ND |
| | 10/31/18 | | | | ND | ND | ND | NT | ND | ND | sealed | ND | sealed | ND | ND | ND | ND | ND | ND | ND | NT | NT | ND | ND |
| | 05/28/19 | | | | ND | ND | ND | NT | ND | ND | sealed | ND | sealed | ND | Inaccessible | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 10/15/19 | | | | ND | ND | ND | NT | ND | ND | sealed | ND | sealed | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 06/03/20 | | | | ND | ND | ND | NT | ND | ND | sealed | ND | sealed | ND | Inaccessible | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 10/07/20 | | | | ND | ND | ND | NT | ND | ND | sealed | ND | sealed | Inaccessible | Inaccessible | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 05/03/21 | | | | ND | ND | ND | ND | ND | ND | sealed | ND | sealed | ND | ND | ND | ND | ND | ND | ND | NT | ND | ND | ND |
| | 11/09/21 | | | | ND | ND | ND | NT | ND | ND | sealed | ND | sealed | Inaccessible | Inaccessible | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 01/13/22 | | | | NT | NT | NT | NT | NT | NT | sealed | NT | sealed | ND | ND | NT | NT | NT | NT | NT | NT | NT | NT | NT |
| | 05/17/22 | | | | ND | ND | ND | sealed | ND | ND | sealed | ND | sealed | ND | ND | ND | ND | ND | ND | ND | NT | ND | ND | ND |
| | 10/17/22 | | | | ND | ND | ND | sealed | ND | ND | sealed | ND | sealed | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 05/22/23** | | | | ND | ND | ND | sealed | ND | ND | sealed | ND | sealed | ND | ND | ND | ND | ND | ND | ND | NT | ND | ND | ND |
| | 10/5/2023*** | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | NT | NT | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 05/20/24 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | NT | NT | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 10/02/24 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | Inaccessible | NT | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 05/12/25 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | ND | ND | ND | ND | ND | ND | NT | NT | NT | ND | ND |
| | 10/04/25 | | | | ND | ND | ND | Sealed | ND | ND | Sealed | ND | Sealed | Inaccessible | Sealed | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 11/24/25 | | | | NT | NT | NT | Sealed | NT | NT | Sealed | NT | Sealed | ND | Sealed | NT | NT | NT | NT | NT | ND | NT | NT | ND |
| | 12/22/05 | | | | NT | NT | NT | Sealed | NT | NT | Sealed | NT | Sealed | NT | Sealed | NT | NT | NT | NT | NT | ND | NT | NT | NT |

**Notes:**

* GW Holding Pond Data collected on 12/4/12

[1] = Detection monitoring parameters per Appendix 1 of Chapter 567-113.15

[2] MCL = Federal Maximum Contaminant Level, Iowa Statewide Standards for protected groundwater source in parenthesis (X)

( ) results in parenthesis represent second run with diluted sample, or duplicate sample for that event

na = not applicable - Federal MCL not established for this parameter

RL - laboratory reporting limit (RLs may vary dependant upon sample matrix and/or interference)

Methods = from EPA publication SW-846 3rd edition; methods may change from those listed due to changes in technology, updates and additions to published methodology and when regulations require different methods.

Blank = may represent field and/or trip blank

NT = not tested, sampling either not required, well not yet installed, or insufficient well volume

Highlighted result above water quality standard

** = Samples MW-12A, MW-13A, MW-21A, MW-23A, MW-37A collected on 6/8/2023 due to 5/22/23 samples being lost in shipping to laboratory

*** = Samples for MW-38A collected on 10/23/2023

# Table 9 - Assessment Monitoring Parameters Summary - IAC Chapter 113 Appendix II

Dickinson Landfill - Spirit Lake, Iowa

Permit No. 30-SDP-01-75P

| Appendix II Parameters (IDNR) [1] | Date | RL | MCL [2] | Units | GU-B/C | MW-12A | MW-19A | MW-22 | MW-23A | MW-29 | MW-37A | MW-38A | Blank |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *Organochlorine Pesticides* | 10/26/09 | | | | ND | ND | ND | NT | NT | NT | NT | NT | ND |
| *(per EPA method 8081A)* | 12/17/09 | | | | ND | ND | ND | NT | NT | NT | NT | NT | NT |
| | 07/09/10 | | | | ND | ND | ND | NT | ND | NT | ND | ND | NT |
| | 08/18/10 | | | | NT | NT | NT | NT | ND | NT | ND | ND | NT |
| | 05/11/11 | | | | ND | ND | ND | ND | ND | ND | ND | ND | NT |
| | 10/19/11 | | | | NT | NT | NT | ND | NT | ND | NT | NT | NT |
| 4,4'-DDD | 06/16/16 | 0.05 | -- | ug/L | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| *(per EPA method 8081B)* | 05/03/21 | | | | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| 4,4'-DDE | 06/16/16 | 0.05 | -- | ug/L | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| | 05/03/21 | | | | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| 4,4'-DDT | 06/16/16 | 0.05 | -- | ug/L | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| | 05/03/21 | | | | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| Aldrin | 06/16/16 | 0.05 | -- | ug/L | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| | 05/03/21 | | | | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| alpha-BHC | 06/16/16 | 0.05 | -- | ug/L | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| | 05/03/21 | | | | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| alpha-Chlordane | 06/16/16 | 0.05 | -- | ug/L | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| | 05/03/21 | | | | NT | 0.17 | ND | NT* | ND | NT* | ND | ND | NT |
| | 11/09/21 | | | | NT | ND | NT | NT* | NT | NT* | NT | NT | NT |
| | 10/17/22 | | | | NT | ND | NT | NT* | NT | NT* | NT | NT | NT |
| beta-BHC | 06/16/16 | 0.05 | -- | ug/L | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| | 05/03/21 | | | | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| Chlordane | 06/16/16 | 0.5 | 2 | ug/L | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| | 05/03/21 | | (2) | | NT | 3.11 | ND | NT* | ND | NT* | ND | ND | NT |
| | 06/22/21 | | | | NT | ND** | NT | NT | NT | NT | NT | NT | NT |
| delta-BHC | 06/16/16 | 0.05 | -- | ug/L | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| | 05/03/21 | | | | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| Dieldrin | 06/16/16 | 0.05 | -- | ug/L | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| | 05/03/21 | | | | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| Endosulfan I | 06/16/16 | 0.05 | -- | ug/L | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| | 05/03/21 | | | | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| Endosulfan II | 06/16/16 | 0.05 | -- | ug/L | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| | 05/03/21 | | | | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| Endosulfan sulfate | 06/16/16 | 0.05 | -- | ug/L | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| | 05/03/21 | | | | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| Endrin | 06/16/16 | 0.05 | -- | ug/L | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| | 05/03/21 | | | | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| Endrin aldehyde | 06/16/16 | 0.05 | -- | ug/L | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| | 05/03/21 | | | | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| gamma-BHC (Lindane) | 06/16/16 | 0.05 | -- | ug/L | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| | 05/03/21 | | | | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| Heptachlor | 06/16/16 | 0.05 | -- | ug/L | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| | 05/03/21 | | | | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| Heptachlor epoxide | 06/16/16 | 0.05 | -- | ug/L | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| | 05/03/21 | | | | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| Methoxychlor | 06/16/16 | 0.05 | -- | ug/L | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| | 05/03/21 | | | | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| Toxaphene | 06/16/16 | 0.5 | -- | ug/L | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| | 05/03/21 | | | | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| *Herbicides* | 10/26/09 | | | | ND | ND | ND | NT | NT | NT | NT | NT | ND |
| | 05/22/08 | | | | ND | 6.4 | ND | NT | NT | NT | NT | | ND |
| (per EPA method 8151A) | 12/17/09 | | | | ND | ND | ND | NT | NT | NT | NT | NT | NT |
| | 07/09/10 | | | | ND | ND | ND | NT | ND | NT | ND | ND | NT |
| | 08/18/10 | | | | NT | NT | NT | NT | ND | NT | ND | ND | NT |
| | 05/11/11 | | | | ND | ND | ND | ND | ND | ND | ND | ND | NT |
| | 10/19/11 | | | | NT | NT | NT | ND | NT | ND | NT | NT | NT |
| 2,4,5-T | 06/16/16 | 0.51 | -- | ug/L | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| | 05/03/21 | 2 | | | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| 2,4-D | 06/16/16 | 0.51 | -- | ug/L | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| | 05/03/21 | 2 | | | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| Silvex (2,4,5-TP) | 06/16/16 | 0.51 | -- | ug/L | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| | 05/03/21 | 2 | | | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| *Polychlorinated Bihenyls (PCBs)* | 10/26/09 | | | | ND | ND | ND | NT | NT | NT | NT | NT | ND |
| (per EPA method 8082) | 12/17/09 | | | | ND | ND | ND | NT | NT | NT | NT | NT | NT |
| | 07/09/10 | | | | ND | ND | ND | NT | ND | NT | ND | ND | NT |
| | 08/18/10 | | | | NT | NT | NT | NT | ND | NT | ND | ND | NT |
| | 05/11/11 | | | | ND | ND | ND | ND | ND | ND | ND | ND | NT |
| | 10/19/11 | | | | NT | NT | NT | ND | NT | ND | NT | NT | NT |
| Aroclor 1016 | 06/16/16 | 0.5 | -- | ug/L | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| | 5/3/2021 | | | | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |

## Table 9 - Assessment Monitoring Parameters Summary - IAC Chapter 113 Appendix II

Dickinson Landfill - Spirit Lake, Iowa

Permit No. 30-SDP-01-75P

| Appendix II Parameters (IDNR) [1] | Date | RL | MCL [2] | Units | GU-B/C | MW-12A | MW-19A | MW-22 | MW-23A | MW-29 | MW-37A | MW-38A | Blank |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Aroclor 1221 | 06/16/16 | 0.5 | -- | ug/L | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| | 5/3/2021 | | | | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| Aroclor 1232 | 06/16/16 | 0.5 | -- | ug/L | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| | 5/3/2021 | | | | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| Aroclor 1242 | 06/16/16 | 0.5 | -- | ug/L | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| | 5/3/2021 | | | | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| Aroclor 1248 | 06/16/16 | 0.5 | -- | ug/L | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| | 5/3/2021 | | | | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| Aroclor 1254 | 06/16/16 | 0.5 | -- | ug/L | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| | 5/3/2021 | | | | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| Aroclor 1260 | 06/16/16 | 0.5 | -- | ug/L | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| | 5/3/2021 | | | | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| *Semi-Volatile Organics* | 10/26/09 | | | | ND | ND | ND | NT | NT | NT | NT | NT | ND |
| *(per EPA method 8270C)* | 12/17/09 | | | | ND | ND | ND | NT | NT | NT | NT | NT | NT |
| | 08/18/10 | | | | NT | NT | NT | NT | ND | NT | ND | ND | NT |
| | 05/11/11 | | | | ND | ND | ND | ND | ND | ND | ND | ND | NT |
| | 10/19/11 | | | | NT | NT | NT | ND | NT | ND | NT | NT | NT |
| 1,2,4,5-Tetrachlorobenzene | 06/16/16 | 5 | -- | ug/L | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| *(per EPA method 8270D)* | 5/3/2021 | 10 | | | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| 1,2,4-Trichlorobenzene | 06/16/16 | 10 | -- | ug/L | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| | 5/3/2021 | | | | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| 1,3,5-Trinitrobenzene | 06/16/16 | 10 | -- | ug/L | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| | 5/3/2021 | | | | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| 1,3-Dichlorobenzene | 06/16/16 | 10 | -- | ug/L | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| | 5/3/2021 | | | | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| 1,3-Dinitrobenzene | 06/16/16 | 20 | -- | ug/L | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| | 5/3/2021 | | | | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| 1,4-Dichlorobenzene | 06/16/16 | 10 | -- | ug/L | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| | 5/3/2021 | | | | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| 1,4-Naphthoquinone | 06/16/16 | 10 | -- | ug/L | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| | 5/3/2021 | 50 | | | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| 1-Naphthylamine | 06/16/16 | 10 | -- | ug/L | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| | 5/3/2021 | | | | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| 2,2'-Oxybis(1-chloropropane) | 06/16/16 | 5 | -- | ug/L | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| | 5/3/2021 | 10 | | | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| 2,3,4,6-Tetrachlorophenol | 06/16/16 | 5 | -- | ug/L | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| | 5/3/2021 | 10 | | | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| 2,4,5-Trichlorophenol | 06/16/16 | 5 | -- | ug/L | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| | 5/3/2021 | 10 | | | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| 2,4,6-Trichlorophenol | 06/16/16 | 5 | -- | ug/L | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| | 5/3/2021 | 10 | | | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| 2,4-Dichlorophenol | 06/16/16 | 5 | -- | ug/L | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| | 5/3/2021 | 10 | | | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| 2,4-Dimethylphenol | 06/16/16 | 5 | -- | ug/L | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| | 5/3/2021 | 10 | | | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| 2,4-Dinitrophenol | 06/16/16 | 10 | -- | ug/L | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| | 5/3/2021 | | | | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| 2,4-Dinitrotoluene | 06/16/16 | 5 | -- | ug/L | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| | 5/3/2021 | 10 | | | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| 2,6-Dichlorophenol | 06/16/16 | 10 | -- | ug/L | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| | 5/3/2021 | | | | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| 2,6-Dinitrotoluene | 06/16/16 | 5 | -- | ug/L | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| | 5/3/2021 | 10 | | | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| 2-Acetylaminofluorene | 06/16/16 | 10 | -- | ug/L | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| | 5/3/2021 | 10 | | | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| 2-Chloronaphthalene | 06/16/16 | 5 | -- | ug/L | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| | 5/3/2021 | 1 | | | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| 2-Chlorophenol | 06/16/16 | 5 | -- | ug/L | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| | 5/3/2021 | 10 | | | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| 2-Methylnaphthalene | 06/16/16 | 5 | -- | ug/L | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| | 5/3/2021 | 1 | | | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| 2-Methylphenol | 06/16/16 | 5 | -- | ug/L | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| | 5/3/2021 | 10 | | | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| 2-Naphthylamine | 06/16/16 | 10 | -- | ug/L | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |

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Dickinson Landfill - Spirit Lake, Iowa

Permit No. 30-SDP-01-75P

| Appendix II Parameters (IDNR) [1] | Date | RL | MCL [2] | Units | GU-B/C | MW-12A | MW-19A | MW-22 | MW-23A | MW-29 | MW-37A | MW-38A | Blank |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 5/3/2021 | | | | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| 2-Nitroaniline | 06/16/16 | 10 | -- | ug/L | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| | 5/3/2021 | | | | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| 2-Nitrophenol | 06/16/16 | 5 | -- | ug/L | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| | 5/3/2021 | 10 | | | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| 2-sec-Butyl-4,6-dinitrophenol | 06/16/16 | 10 | -- | ug/L | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| | 5/3/2021 | | | | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| 2-Toluidine | 06/16/16 | 10 | -- | ug/L | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| | 5/3/2021 | | | | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| 3,3'-Dichlorobenzidine | 06/16/16 | 5 | -- | ug/L | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| | 5/3/2021 | 10 | | | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| 3,3'-Dimethylbenzidine | 06/16/16 | 40 | -- | ug/L | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| | 5/3/2021 | 10 | | | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| 3-Methylcholanthrene | 06/16/16 | 10 | -- | ug/L | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| | 5/3/2021 | | | | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| 3-Methylphenol | 06/16/16 | 10 | -- | ug/L | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| | 5/3/2021 | | | | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| 3-Nitroaniline | 06/16/16 | 10 | -- | ug/L | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| | 5/3/2021 | | | | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| 4,6-Dinitro-2-methylphenol | 06/16/16 | 10 | -- | ug/L | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| | 5/3/2021 | | | | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| 4-Aminobiphenyl | 06/16/16 | 10 | -- | ug/L | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| | 5/3/2021 | | | | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| 4-Bromophenyl phenyl ether | 06/16/16 | 5 | -- | ug/L | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| | 5/3/2021 | 10 | | | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| 4-Chloro-3-methylphenol | 06/16/16 | 5 | -- | ug/L | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| | 5/3/2021 | 10 | | | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| 4-Chloroaniline | 06/16/16 | 5 | -- | ug/L | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| | 5/3/2021 | 10 | | | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| 4-Chlorophenyl phenyl ether | 06/16/16 | 5 | -- | ug/L | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| | 5/3/2021 | 10 | | | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| 4-Methylphenol | 06/16/16 | 10 | -- | ug/L | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| | 5/3/2021 | | | | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| 4-Nitroaniline | 06/16/16 | 10 | -- | ug/L | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| | 5/3/2021 | | | | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| 4-Nitrophenol | 06/16/16 | 10 | -- | ug/L | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| | 5/3/2021 | | | | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| 5-Nitro-o-toluidine | 06/16/16 | 10 | -- | ug/L | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| | 5/3/2021 | | | | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| 7,12-Dimethylbenz[a]anthracene | 06/16/16 | 10 | -- | ug/L | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| | 5/3/2021 | | | | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| Acenaphthene | 06/16/16 | 5 | -- | ug/L | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| | 5/3/2021 | 1 | | | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| Acenaphthylene | 06/16/16 | 5 | -- | ug/L | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| | 5/3/2021 | 1 | | | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| Acetophenone | 06/16/16 | 5 | -- | ug/L | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| | 5/3/2021 | 10 | | | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| Anthracene | 06/16/16 | 5 | -- | ug/L | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| | 5/3/2021 | 1 | | | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| Benzo[a]anthracene | 06/16/16 | 5 | -- | ug/L | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| | 5/3/2021 | 1 | | | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| Benzo[a]pyrene | 06/16/16 | 5 | -- | ug/L | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| | 5/3/2021 | 1 | | | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| Benzo[b]fluoranthene | 06/16/16 | 5 | -- | ug/L | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| | 5/3/2021 | 1 | | | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| Benzo[g,h,i]perylene | 06/16/16 | 5 | -- | ug/L | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| | 5/3/2021 | 1 | | | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| Benzo[k]fluoranthene | 06/16/16 | 5 | -- | ug/L | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| | 5/3/2021 | 1 | | | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| Benzyl alcohol | 06/16/16 | 20 | -- | ug/L | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| | 5/3/2021 | 10 | | | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| Bis(2-chloroethoxy)methane | 06/16/16 | 5 | -- | ug/L | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| | 5/3/2021 | 10 | | | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |

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Dickinson Landfill - Spirit Lake, Iowa

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| Appendix II Parameters (IDNR) [1] | Date | RL | MCL [2] | Units | GU-B/C | MW-12A | MW-19A | MW-22 | MW-23A | MW-29 | MW-37A | MW-38A | Blank |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Bis(2-chloroethyl)ether | 06/16/16 | 5 | -- | ug/L | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| | 5/3/2021 | 10 | | | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| Bis(2-ethylhexyl) phthalate | 06/16/16 | 5 | -- | ug/L | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| | 5/3/2021 | 3 | | | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| Butyl benzyl phthalate | 06/16/16 | 5 | -- | ug/L | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| | 5/3/2021 | 3 | | | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| Chlorobenzilate | 06/16/16 | 20 | -- | ug/L | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| | 5/3/2021 | 50 | | | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| Chrysene | 06/16/16 | 5 | -- | ug/L | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| | 5/3/2021 | 1 | | | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| Diallate | 06/16/16 | 10 | -- | ug/L | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| | 5/3/2021 | | | | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| Dibenz[a,h]anthracene | 06/16/16 | 5 | -- | ug/L | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| | 5/3/2021 | 1 | | | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| Dibenzofuran | 06/16/16 | 10 | -- | ug/L | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| | 5/3/2021 | | | | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| Diethyl phthalate | 06/16/16 | 5 | -- | ug/L | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| | 5/3/2021 | 3 | | | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| Dimethoate | 06/16/16 | 10 | -- | ug/L | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| | 5/3/2021 | 50 | | | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| Dimethyl phthalate | 06/16/16 | 5 | -- | ug/L | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| | 5/3/2021 | 3 | | | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| Di-n-butyl phthalate | 06/16/16 | 5 | -- | ug/L | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| | 5/3/2021 | 3 | | | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| Di-n-octyl phthalate | 06/16/16 | 5 | -- | ug/L | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| | 5/3/2021 | 1 | | | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| Diphenylamine | 06/16/16 | 10 | -- | ug/L | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| | 5/3/2021 | | | | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| Disulfoton | 06/16/16 | 10 | -- | ug/L | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| | 5/3/2021 | | | | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| Ethyl methanesulfonate | 06/16/16 | 10 | -- | ug/L | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| | 5/3/2021 | | | | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| Famphur | 06/16/16 | 40 | -- | ug/L | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| | 5/3/2021 | 20 | | | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| Fluoranthene | 06/16/16 | 5 | -- | ug/L | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| | 5/3/2021 | 1 | | | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| Fluorene | 06/16/16 | 5 | -- | ug/L | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| | 5/3/2021 | 1 | | | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| Hexachlorobenzene | 06/16/16 | 5 | -- | ug/L | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| | 5/3/2021 | 1 | | | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| Hexachlorobutadiene | 06/16/16 | 5 | -- | ug/L | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| | 5/3/2021 | 10 | | | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| Hexachlorocyclopentadiene | 06/16/16 | 5 | -- | ug/L | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| | 5/3/2021 | 10 | | | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| Hexachloroethane | 06/16/16 | 5 | -- | ug/L | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| | 5/3/2021 | 10 | | | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| Hexachloropropene | 06/16/16 | 10 | -- | ug/L | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| | 5/3/2021 | 50 | | | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| Indeno[1,2,3-cd]pyrene | 06/16/16 | 5 | -- | ug/L | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| | 5/3/2021 | 1 | | | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| Isodrin | 06/16/16 | 10 | -- | ug/L | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| | 5/3/2021 | | | | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| Isophorone | 06/16/16 | 5 | -- | ug/L | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| | 5/3/2021 | 10 | | | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| Isosafrole | 06/16/16 | 10 | -- | ug/L | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| | 5/3/2021 | 10 | | | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| Kepone | 06/16/16 | 50 | -- | ug/L | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| | 5/3/2021 | 20 | | | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| Methapyrilene | 06/16/16 | 50 | -- | ug/L | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| | 5/3/2021 | | | | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| Methyl methanesulfonate | 06/16/16 | 10 | -- | ug/L | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| | 5/3/2021 | 50 | | | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| Naphthalene | 06/16/16 | 5 | -- | ug/L | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| | 5/3/2021 | 1 | | | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |

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Permit No. 30-SDP-01-75P

| Appendix II Parameters (IDNR) [1] | Date | RL | MCL [2] | Units | GU-B/C | MW-12A | MW-19A | MW-22 | MW-23A | MW-29 | MW-37A | MW-38A | Blank |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Nitrobenzene | 06/16/16 | 5 | -- | ug/L | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| | 5/3/2021 | 10 | | | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| N-Nitrosodiethylamine | 06/16/16 | 10 | -- | ug/L | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| | 5/3/2021 | | | | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| N-Nitrosodimethylamine | 06/16/16 | 10 | -- | ug/L | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| | 5/3/2021 | | | | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| N-Nitrosodi-n-butylamine | 06/16/16 | 10 | -- | ug/L | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| | 5/3/2021 | | | | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| N-Nitrosodi-n-propylamine | 06/16/16 | 5 | -- | ug/L | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| | 5/3/2021 | 10 | | | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| N-Nitrosodiphenylamine | 06/16/16 | 5 | -- | ug/L | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| | 5/3/2021 | 10 | | | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| N-Nitrosomethylethylamine | 06/16/16 | 10 | -- | ug/L | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| | 5/3/2021 | | | | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| N-Nitrosopiperidine | 06/16/16 | 10 | -- | ug/L | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| | 5/3/2021 | | | | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| N-Nitrosopyrrolidine | 06/16/16 | 10 | -- | ug/L | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| | 5/3/2021 | | | | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| O,O,O-Triethyl phosphorothioate | 06/16/16 | 10 | -- | ug/L | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| | 5/3/2021 | | | | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| Parathion | 06/16/16 | 10 | -- | ug/L | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| | 5/3/2021 | | | | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| Parathion-methyl | 06/16/16 | 10 | -- | ug/L | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| | 5/3/2021 | | | | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| p-Dimethylamino azobenzene | 06/16/16 | 10 | -- | ug/L | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| | 5/3/2021 | | | | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| Pentachlorobenzene | 06/16/16 | 10 | -- | ug/L | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| | 5/3/2021 | | | | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| Pentachloronitrobenzene | 06/16/16 | 10 | -- | ug/L | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| | 5/3/2021 | | | | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| Pentachlorophenol | 06/16/16 | 10 | -- | ug/L | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| | 5/3/2021 | | | | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| Phenacetin | 06/16/16 | 10 | -- | ug/L | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| | 5/3/2021 | | | | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| Phenanthrene | 06/16/16 | 5 | -- | ug/L | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| | 5/3/2021 | 1 | | | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| Phorate | 06/16/16 | 10 | -- | ug/L | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| | 5/3/2021 | 50 | | | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| p-Phenylene diamine | 06/16/16 | 800 | -- | ug/L | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| | 5/3/2021 | | | | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| Pronamide | 06/16/16 | 10 | -- | ug/L | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| | 5/3/2021 | | | | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| Pyrene | 06/16/16 | 5 | -- | ug/L | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| | 5/3/2021 | 1 | | | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| Safrole | 06/16/16 | 10 | -- | ug/L | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| | 5/3/2021 | | | | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| Thionazin | 06/16/16 | 10 | -- | ug/L | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| | 05/03/21 | | | | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| 1,2-dichlorobenzene | 07/09/10 | 9.6 | 600 | ug/L | ND | ND | ND | NT | 10 | NT | ND | ND | NT |
| | 10/18/10 | | (600) | | ND | ND | ND | NT | ND | NT | ND | ND | ND |
| | 05/11/11 | | | | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 10/19/11 | | | | NT | NT | NT | ND | NT | ND | NT | NT | NT |
| | 06/16/16 | 10 | | ug/L | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| | 05/03/21 | 1 | | | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| phenol | 07/09/10 | 4.8 | na | ug/L | 20 | ND | ND | NT | ND | NT | ND | ND | NT |
| | 10/18/10 | | (2000) | | ND | NT | NT | NT | NT | NT | NT | NT | NT |
| | 05/11/11 | | | | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 10/19/11 | | | | NT | NT | NT | ND | NT | ND | NT | NT | NT |
| | 06/16/16 | 5 | | ug/L | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| | 05/03/21 | 10 | | | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| *Inorganics (specific to Appendix II)* | | | | | | | | | | | | | |
| Cyanide | 10/26/09 | 10 | 200 | ug/L | ND | ND | ND | NT | NT | NT | NT | NT | NT |
| | 12/17/09 | | (200) | | ND | ND | ND | NT | NT | NT | NT | NT | NT |
| | 07/09/10 | | | | ND | ND | ND | NT | ND | NT | ND | ND | NT |
| | 08/18/10 | | | | NT | NT | NT | NT | ND | NT | ND | ND | NT |
| | 05/11/11 | | | | ND | ND | ND | ND | ND | ND | ND | ND | NT |
| | 10/19/11 | | | | NT | NT | NT | ND | NT | ND | NT | NT | NT |
| | 06/16/16 | | | | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |

## Table 9 - Assessment Monitoring Parameters Summary - IAC Chapter 113 Appendix II

Dickinson Landfill - Spirit Lake, Iowa
Permit No. 30-SDP-01-75P

| Appendix II Parameters (IDNR) [1] | Date | RL | MCL [2] | Units | GU-B/C | MW-12A | MW-19A | MW-22 | MW-23A | MW-29 | MW-37A | MW-38A | Blank |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 05/03/21 | | | | NT | ND | ND | NT* | ND | NT* | 16.4 | 14.1 | NT |
| | 11/09/21 | | | | NT | ND | ND | NT* | ND | NT* | ND | NT | NT |
| | 12/21/21 | | | | NT | NT | NT | NT | NT | NT | NT | ND | NT |
| Mercury - total | 10/26/09 | 0.4 | 2 | ug/L | ND | ND | ND | NT | NT | NT | NT | NT | NT |
| | 12/17/09 | | (2) | | ND | ND | ND | NT | NT | NT | NT | NT | NT |
| | 07/09/10 | | | | ND | ND | ND | NT | ND | NT | ND | ND | NT |
| | 08/18/10 | | | | NT | NT | NT | NT | ND | NT | ND | ND | NT |
| | 05/11/11 | | | | ND | ND | ND | ND | ND | ND | ND | ND | NT |
| | 10/19/11 | | | | NT | NT | NT | ND | NT | ND | NT | NT | NT |
| | 06/16/16 | 0.4 | | | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| | 05/03/21 | | | | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| Sulfide | 10/26/09 | 1 | na | mg/L | ND | ND | ND | NT | NT | NT | NT | NT | NT |
| | 12/17/09 | | | | ND | ND | ND | NT | NT | NT | NT | NT | NT |
| | 07/09/10 | | | | ND | ND | ND | NT | ND | NT | ND | ND | NT |
| | 08/18/10 | | | | NT | NT | NT | NT | ND | NT | ND | ND | NT |
| | 05/11/11 | | | | ND | ND | ND | ND | ND | ND | ND | ND | NT |
| | 10/19/11 | | | | NT | NT | NT | ND | NT | ND | NT | NT | NT |
| | 06/16/16 | 1 | | | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| | 05/03/21 | | | | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| Tin - total | 10/26/09 | 20 | na | ug/L | ND | ND | ND | NT | NT | NT | NT | NT | NT |
| | 12/17/09 | | (4200) | | ND | ND | ND | NT | NT | NT | NT | NT | NT |
| | 07/09/10 | | | | ND | ND | ND | NT | ND | NT | ND | ND | NT |
| | 08/18/10 | | | | NT | NT | NT | NT | ND | NT | ND | ND | NT |
| | 05/11/11 | | | | ND | ND | ND | ND | ND | ND | ND | ND | NT |
| | 10/19/11 | | | | NT | NT | NT | ND | NT | ND | NT | NT | NT |
| | 06/16/16 | 10 | | | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |
| | 05/03/21 | 50 | | | NT | ND | ND | NT* | ND | NT* | ND | ND | NT |

**Notes:**

[1] = parameters specific to Appendix II per of Chapter 567-113.15, those parameters also listed in Appendix I are summarized independently

[2] MCL - Federal Maximum Contaminant Level; Iowa Statewide Standards for protected groundwater source in parentheses (x) .

na = not applicable - Federal MCL not established for this parameter

RL - laboratory reporting limit (RLs may vary dependant upon sample matrix and/or interference)

Methods = from EPA publication SW-846 3rd edition; methods may change from those listed due to changes in technology, updates and additions to published methodology and when regulations require different methods.

Blank = may represent field and/or trip blank

NT = Not Tested

NT* = Not Tested - Well Sealed

ND = Not Detected or None Detected

** = MW-12A Resampled for Chlordane on 6/22/21

Unconfirmed Detection

**Revision Log:**

*1/23/20 - Updated to include laboratory RLs*

*5/24/21 - Updated to include 5/3/21 monitoring data*

*7/7/21 - Updated to include 6/22/21 resample data*

*12/29/21 - Updated to include 11/9/21 & 12/21/21 resample data*

# Table 10 - Holding Pond Analytical Results Summary (2020-Present)

Dickinson Sanitary Landfill - Spirit Lake, IA
Permit No. 30-SDP-01-75P

| Parameter | Units | Class C SW Limit[1] | IL[2] | Holding Pond 6/3/2020 | Holding Pond 10/7/2020 | Holding Pond 5/3/2021 | Holding Pond 11/9/2021 | Holding Pond 5/17/2022 | Holding Pond 10/17/2022 | Holding Pond 5/22/2023 | Holding Pond 10/5/2023 | Holding Pond 5/20/2024 | Holding Pond 10/2/2024 | Holding Pond 5/12/2025 | Holding Pond 10/14/2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *Metals* | | | | | | | | | | | | | | | |
| Antimony | µg/L | | | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Arsenic | mg/L | | | ND | ND | ND | ND | 0.0104 | ND | ND | 0.0104 | 0.0213 | 0.014 | ND | 0.0109 |
| Barium | mg/L | | | 0.0717 | 0.166 | 0.0576 | 0.155 | 0.0895 | 0.0757 | 0.0837 | 0.26 | 0.0487 | 0.166 | 0.116 | 0.178 |
| Beryllium | mg/L | 0.004 | 0.002 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Cadmium | mg/L | 0.005 | 0.0025 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Chromium | mg/L | 0.1 | 0.05 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Cobalt | mg/L | | | ND | ND | ND | ND | ND | ND | ND | 0.00244 | 0.00394 | 0.00578 | ND | ND |
| Copper | mg/L | | | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Iron | mg/L | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.7 | 1.59 |
| Lead | mg/L | 0.05 | 0.025 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Mercury | mg/L | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | ND | ND |
| Nickel | mg/L | | | 0.0137 | ND | ND | 0.0168 | 0.0223 | ND | 0.0287 | 0.0259 | 0.0380 | 0.0364 | 0.0221 | 0.0142 |
| Selenium | mg/L | | | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Silver | mg/L | 0.05 | 0.025 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Thallium | µg/L | | | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Vanadium | mg/L | | | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Zinc | mg/L | | | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| *Major Ions/Anoins* | | | | | | | | | | | | | | | |
| Calcium | mg/L | | | 50.1 | -- | 45.8 | -- | 60.4 | -- | 68.8 | -- | 45 | -- | 81.5 | 106 |
| Magnesium | mg/L | | | 38.2 | -- | 40.0 | -- | 40.2 | -- | 39.9 | -- | 56.1 | -- | 46.2 | 43.5 |
| Magnesium, Dissolved | mg/L | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 46.8 | 43.1 |
| Potassium | mg/L | | | 2.73 | -- | 2.27 | -- | 4.93 | -- | 6.37 | -- | 38.1 | -- | 16.4 | 14.7 |
| Sodium | mg/L | | | 29.5 | -- | 18.1 | -- | 27.9 | -- | 33.3 | -- | 114 | -- | 54.5 | 38.2 |
| Alkalinity,Bicarbonate | mg/L | | | 226 | -- | 212 | -- | 217 | -- | 201 | -- | 386 | -- | 317 | 422 |
| Chloride | mg/L | 250 | 125 | 40.4 | -- | 30.2 | -- | 46.6 | -- | 51.1 | -- | 134** | -- | 69.3 (73.8) | 43.5 |
| Sulfate | mg/L | | | 86.7 | -- | 80.9 | -- | 105 | -- | 106 | -- | 85.4 | -- | 96.5 | 50.7 |
| *NPDES Specific* | | | | | | | | | | | | | | | |
| Total Alkalinity | mg/L | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 315 | 422 |
| Total Dissolved Solids | mg/L | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 601 | 604 |
| Ammonia Nitrogen | mg/L | See IAC | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 2.17 | 2.51 |
| Nitrate-Nitrite | mg/L | 10 | 5 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 2.8 | ND |
| Chemical Oxygen Demand | mg/L | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 54.3 | 47.3 |
| Cyanide | mg/L | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | ND | ND |
| pH | SU | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 7.99 | 7.27 |
| Total Organic Carbon | mg/L | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 14.2 | 11.8 |
| Oil and Grease | mg/L | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | ND | ND |
| *Field Measurements* | | | | | | | | | | | | | | | |
| eH/ORP ( On Site ) | mV | | | 71.2 | 3.4 | 57.8 | 15.6 | 182.6 | 101.7 | 196 | 167.4 | 109.8 | 110.4 | 79 | 126.1 |
| pH (On Site) | SU | | | 8.58 | 7.12 | 8.04 | 7.41 | 7.32 | 7.73 | 8.08 | 6.99 | 8.54 | 7.35 | 7.67 | 7.27 |
| Specific Conductance (on site) | µmhos/cm | | | 767 | 930 | 708 | 980 | 747 | 543 | 782 | 1,066 | 1,109 | 1,867 | 0.985 | 1006 |
| Temperature (on-site) | deg. C | | | 25.71 | 17.70 | 18.70 | 10.7 | 17.4 | 6.3 | 23.9 | 17.6 | 22 | 16.2 | 9.1 | 13.5 |
| Dissolved Oxygen (on-site) | mg/L | | | 16.89 | 12.37 | 14.80 | 11.0 | 10 | 13.6 | 13.2 | 12.8 | 12.9 | 12.2 | 21.81 | 7.11 |
| Turbidity (on-site) | NTU | | | 14.7 | 25.0 | 20.5 | NA | 19.5 | 6 | 18.8 | 25.1 | 19.7 | 20.4 | 3.4 | 8.9 |
| Suspended Solids | mg/L | | | ND | 11.4 | 3.5 | 3.8 | 13.8 | 3.4 | 51.8 | 18 | 6.2 | 5.9 | 5.6 | 11.7 |
| *Volatile Organic Compounds* | | | | | | | | | | | | | | | |
| Total Petroleum Hydrocarbons | mg/L | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | ND | ND |
| 1,1,1,2-Tetrachloroethane | µg/L | | | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,1,1-Trichloroethane | µg/L | 200 | 100 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,1,2,2-Tetrachloroethane | µg/L | | | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,1,2-Trichloroethane | µg/L | | | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,1-Dichloroethane | µg/L | | | ND | 1.77 | ND | 2.02 | ND | ND | ND | 1.69 | ND | ND | ND | ND |
| 1,1-Dichloroethene | µg/L | | | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,2,3-Trichloropropane | µg/L | | | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,2-Dibromo-3-Chloropropane | µg/L | 0.2 | 0.1 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,2-Dibromoethane | µg/L | 0.05 | 0.025 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,2-Dichlorobenzene | µg/L | 600 | 300 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,2-Dichloroethane | µg/L | | | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,2-Dichloropropane | µg/L | | | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 1,4-Dichlorobenzene | µg/L | | | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 2-Butanone (MEK) | µg/L | | | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 2-Hexanone | µg/L | | | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 4-Methyl-2-pentanone (MIBK) | µg/L | | | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Acetone | µg/L | | | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Acrylonitrile | µg/L | | | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Benzene | µg/L | | | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Bromochloromethane | µg/L | | | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Bromodichloromethane | µg/L | | | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Bromoform | µg/L | | | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Bromomethane | µg/L | | | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Carbon disulfide | µg/L | | | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Carbon tetrachloride | µg/L | | | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Chlorobenzene | µg/L | 100 | 50 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Chloroethane | µg/L | | | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Chloroform | µg/L | | | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Chloromethane | µg/L | | | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| cis-1,2-Dichloroethene | µg/L | 70 | 35 | 1.05 | 2.96 | ND | 2.75 | ND | ND | ND | 2.66 | ND | ND | ND | ND |
| cis-1,3-Dichloropropene | µg/L | | | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Dibromochloromethane | µg/L | | | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Dibromomethane | µg/L | | | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Ethylbenzene | µg/L | | | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Iodomethane | µg/L | | | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Methylene Chloride | µg/L | 5 | 2.5 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Styrene | µg/L | 100 | 50 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Tetrachloroethene | µg/L | | | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Toluene | µg/L | | | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| trans-1,2-Dichloroethene | µg/L | | | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| trans-1,3-Dichloropropene | µg/L | | | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| trans-1,4-Dichloro-2-butene | µg/L | | | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Trichloroethene | µg/L | | | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Trichlorofluoromethane | µg/L | | | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Vinyl acetate | µg/L | | | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Vinyl chloride | µg/L | | | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Xylenes, Total | µg/L | 10000 | 5000 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Total Trihalomethanes | µg/L | 80 | 40 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

**Notes:**

(1) - IDNR Class C Surface Water Limit. As defined in IAC 567.61

(2) - Intervention Limit (IL). Defined as 1/2 the IDNR Class C Surface Water Limit.

(73.8) - Duplicate or secondary sample result.

ND = Parameter not detected at concentrations above its reporting limit

-- = Parameter not tested or not required

Volatile organic compound detected above its reporting limit

Reported concentration is/was above the permitted IL

Reported concentration is/was above the SW Limit

* GW Holding Pond Data collected on 12/4/12

** - anomolous result not confirmed

# Table 11 - 2026 Tentative Monitoring Schedule

Dickinson Landfill - Spirit Lake, Iowa

Permit No. 30-SDP-01-75P

| Well/Monitoring Location ID | | Spring | Fall |
|---|---|---|---|
| MW-11A | | Appendix I & *major ions** | Appendix I |
| MW-12A** | | Appendix II & *major ions** | Appendix I |
| MW-13A | | Appendix I & *major ions** | Appendix I |
| MW-14A | | WL | WL |
| MW-15A | | WL | WL |
| MW-17A | | WL | WL |
| MW-19A** | | Appendix II & *major ions** | Appendix I |
| MW-21A | | Appendix I & *major ions** | Appendix I |
| MW-23A** | | Appendix II & *major ions** | Appendix I |
| MW-34A | | Appendix I & *major ions** | Appendix I |
| MW-37A** | | Appendix II & *major ions** | Appendix I |
| MW-38A** | | Appendix II & *major ions** | Appendix I |
| MW-39A | | Appendix I & *major ions** | Appendix I |
| MW-40A | | Appendix I & *major ions** | Appendix I |
| MW-41A[4] | | Appendix I & *major ions**[4] | Appendix I[4] |
| GU-B / C (one sample) [2][3] | | -- [2] | -- [2] |
| Groundwater Holding Pond [2][3] | | --[3] | --[3] |
| Leachate [1] | | Appendix I, *major ions*, & WWTP facility Parameters* | -- |
| Outfall 1 (per SWPPP) | | NPDES (upon request) | |

**EXPLANATION:**

**Appendix I** (**Detection** monitoring parameters per Appendix I list from IDNR rules): Total metals (antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt copper, lead, nickel, selenium, silver, thallium, vanadium, zinc, VOCs, TSS, & field parameters WL, pH, conductance, temp, and turbidity.

**Appendix II (Assessment** parameters per the Appendix II list from IDNR rules): parameters include all Appendix I parameters plus pesticides, herbicides, PCBs, Semi-volatiles, and inorganics; cyanide, mercury, sulfide and tin.

* **Major ions** = monitoring for *major ions (calcium, magnesium, sodium, potassium, alkalinity, chloride & sulfate)* at Landfill initiative & use for alternative source demonstrations

** Well scheduled for analyses of Appendix II [Assessment] parameters 2026

**Leachate** = parameters include Appendix I [Detection], major ions & **additional WWTP analytes** (Ammonia N, Iron, Mercury, Phenol, COD, CBOD5 and TKN)

**NPDES** = oil&grease, Alk., cyanide, ammonia, Nitrate+Nitrite, COD, pH, chloride, sulfate, TOC, TDS, Mg (dissolved), Mg (total), total metals As, Ba, Cd, Ca, Cr, Fe, Pb, K, Ag, Na, Se, Hg

**(1)** - Leachate sample from manhole entry into new (2011) leachate pond or direct from new pond (4/24/12)

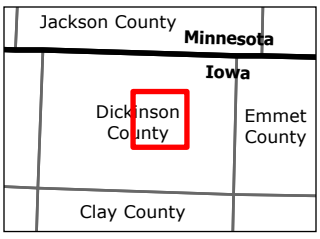
**(2)** - Groundwater Holding Pond to be sampled in place of GU-B/C underdrains per IDNR letter November 8, 2012

**(3)** - Requesting to remove these features from the monitoring program as part of 2025 permit renewal application and associated 2025 HMSP

**(4)** - New downgradient Detection monitoring well currently in Background monitoring mode until the 8 background data sets required for statistical program are complete (anticipated July 2026). Well will then be incorporated into routine semi-annual Detection monitoring schedule and statistical program (anticipated fall 2026).

# Figures






Legend

- Landfill Property Boundary
- Half Mile Radius
- Houses

0 2,500 5,000 Feet

(At original document size of 8.5x11)
1:60,000

N

***Notes***

1. Coordinate System: NAD 1983 UTM Zone 15N
2. Data Sources: USDA
3. Background: NAIP 2023 Imagery

Stantec

*Project Location*
T99N, R36W, S27
Dickinson Co., IA

Prepared by BS on 2026-01-20

*Client/Project*
Dickinson Landfill, Inc.
2025 Annual Report

227708677

*Figure No.*
1

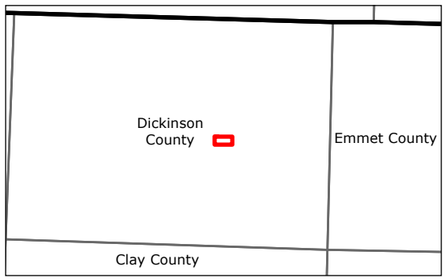
*Title*
**Site Location Map**



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Legend

- Landfill Property Line
- Closed Area
- Landfill Gas Flare Pad
- Sediment Pond
- Existing Permitted Boundary
- Permitted Waste Limits
- Existing Phase Limits
- Future Phase Limits
- Water Vaults
- Culvert
- Outfall
- Temporary Gas Probe (Installed April 2022)
- Gas Probe (Discontinued)
- Gas Probe
- Groundwater Monitoring Well
- Parcels (Source: Dickinson County)

0 225 450 Feet
(At original document size of 11x17)
1:5,400

N

**Notes**
1. Coordinate System: NAD 1983 StatePlane Iowa North FIPS 1401 Feet
2. Data Sources: ESRI, Stantec
3. Background: 2024 Aerial Photograph (Source: Maxar), 2020 Drone Imagery (Source: Stantec Survey)

Stantec

*Project Location*
T99N, R36W, S27
Dickinson Co., IA

Prepared by BS on 2026-01-20

*Client/Project*
Dickinson Landfill, Inc.
2025 Annual Report

227708677

*Figure No.*
**2**

*Title*
**Existing Conditions & Monitoring Locations**



U:\227702770255\07 42-4002\pro\Annual\Report\AnnualReport.aprx Revised: 2026-01-20 By: bschafermeyer

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Plot Date & Time: 14 January 2026 8:39 AM

E 2500 E 2750 E 3000 E 3250 E 3500 E 3750 E 4000 E 4250 E 4500 E 4750 E 5000 E 5250 E 5500 E 5750 E 6000

N 5500 N 5250 N 5000 N 4750 N 4500 N 4250 N 4000 N 3750 N 3500 N 3250

190TH ST

COUNTY ROAD M-56

MAINTENANCE SHOP

GP-11 GP-12 GP-13 GP-1 GP-2 GP-3 GP-14

MW-10 (SEALED) MW-11A MW-11 (SEALED) MW-12A

REEDS RESIDENTIAL WATER VAULT (MONITORING DISCONTINUED)

EXISTING SCALE & OFFICE

SALVAGING and RECYCLING AREA

CLEANOUT

WATER SUPPLY VAULT

VERTICAL CONTROL BENCH MARK: CHISELED "X" IN SW CORNER OF APPROACH SLAB, SOUTH SIDE OF EXSTING FOUNDATION. EL.=1537.85'

EW-43 EW-44 EW-39 EW-45 EW-46 EW-47 EW-20 EW-1 EW-4 EW-40 EW-21 EW-48 EW-41 EW-2 EW-22 EW-49 EW-42 EW-23 EW-50 EW-3

LW-4 (SEALED) LW-4A LW-3A LW-3 (SEALED) LW-2A

MW-34A MW-14A MW-15A MW-36A (SEALED) MW-17A MW-41A MW-38A MW-18A (SEALED) MW-19A MW-37A MW-21A MW-39A MW-40A

GP-4 (SEALED) MW-23A MW-23 (SEALED) GP-5 (SEALED) MW-22 (SEALED) MW-29 (SEALED) GP-6 (SEALED) GP-7 GP-8 GP-9 GP-10

D2 D1 I H G F E C B A

6" CELL LEACHATE PIPE GROUNDWATER UNDERDRAIN PIPE FIVE FEET BELOW LINER

GAS COLLECTION PIPE

PERMITTED FOOTPRINT

EXISTING PERMITTED PHASE LIMITS

EXISTING UNLINED MSW DISPOSAL AREA

APPROXIMATE 2026 CELL D CONSTRUCTION LIMITS

4" SOLID PE PIPE BOTH ENDS (TYP)

4" SOLID PE PIPE ON SIDE SLOPE TO DISTRIBUTION LINE ELEVATION

GAS HEADER PIPE

EXISTING 8" CONDENSATE

6"/10" HDPE, SDR17 DUAL CONTAINMENT LEACHATE HEADER PIPE @ -0.20%

EAST SEDIMENTATION POND

PRELIMINARY SEDIMENTATION BASIN

C PIEZOMETER B-R PIEZOMETER

CELL "C" LEACHATE ACCESS VAULT

CELL "B" LEACHATE ACCESS VAULT

CELL "A" LEACHATE ACCESS VAULT

CELL "A" GROUNDWATER EXTRACTION MANHOLE

GROUNDWATER MANHOLE AND ACCESS VAULT

GROUNDWATER EXTRACTION MANHOLE DISCHARGE PIPE

GROUNDWATER HOLDING POND (TO BE DISCONTINUED)

LEACHATE WETWELL

VALVE MANHOLE

MIDDLE SEDIMENTATION POND

MAIN SEDIMENTATION POND

OUTFALL 1 DISCONTINUED

SW-1 (DISCONTINUED)

LEACHATE POND DECOMMISSIONED 2016

EXISTING UNLINED CONSTRUCTION AND DEMOLITION WASTE AREA

EXISTING LINED MSW DISPOSAL AREA

GAS HEADER

PS-1 CK-1

EXISTING TRANSFORMER

GAS FLARE PAD

LEACHATE POND

OUTFALL 2 DISCONTINUED

OUTFALL 2A

0 150 300
GRAPHIC SCALE IN FEET

NOTES

1. EXISTING LANDFILL GAS COLLECTION AND CONTROL SYSTEM COMPONENTS PROVIDED BY WASTE MANAGEMENT, INC.
2. ALL HEADER AND LATERAL PIPELINES WITHIN THE LIMITS OF THE WASTE INSTALLED AT A MINIMUM 5% SLOPE.
3. ALL HEADER AND LATERAL PIPELINES OUTSIDE THE LIMITS OF THE WASTE INSTALLED AT A MINIMUM 0.5% SLOPE.
4. ALL FORCEMAIN INSTALLED OUTSIDE THE WASTE IS DUAL CONTAINED HDPE PIPE.

LEGEND

- EW-1 — EXISTING GAS EXTRACTION WELL
- MW-21A — MONITORING WELL LOCATION AND NUMBER
- LW-1 — LEACHATE MONITORING WELL PIEZOMETER
- GP-1 — GAS PROBE
- GP-8 — GAS PROBE DISCONTINUED
- TEMPORARY GAS PROBE (INSTALLED APRIL 2022)
- WATER SUPPLY VAULT
- CLOSURE LIMIT
- PERMITTED WASTE LIMITS
- EXISTING PERMITTED PHASE LIMITS
- FUTURE PERMITTED PHASE LIMITS
- A — PHASE ID
- D — FUTURE PHASE ID
- 1454 — GROUNDWATER UNDERDRAIN SUMP ELEVATION
- LEACHATE COLLECTION SUMP

NOTE:
TOPOGRAPHY TAKEN BY AERIAL SURVEY ON MARCH 10, 2025.

| REV | REVISION DESCRIPTION | DWN | APP | REV DATE |
|---|---|---|---|---|

SEAL

SUB CONSULTANT

PRIME CONSULTANT

Stantec

PROJECT TITLE
2025 ANNNUAL REPORT

DICKINSON COUNTY LANDFILL
SPIRIT LAKE, IA

SHEET TITLE
EXISTING CONDITIONS AND MONITORING LOCATIONS

| DWN BY | CHK'D | APP'D | DWG DATE | JAN. 2026 |
|---|---|---|---|---|
| JJT | CDK | CJA | SCALE | AS NOTED |

PROJECT NO. 227708677

SHEET NO. FIGURE 3

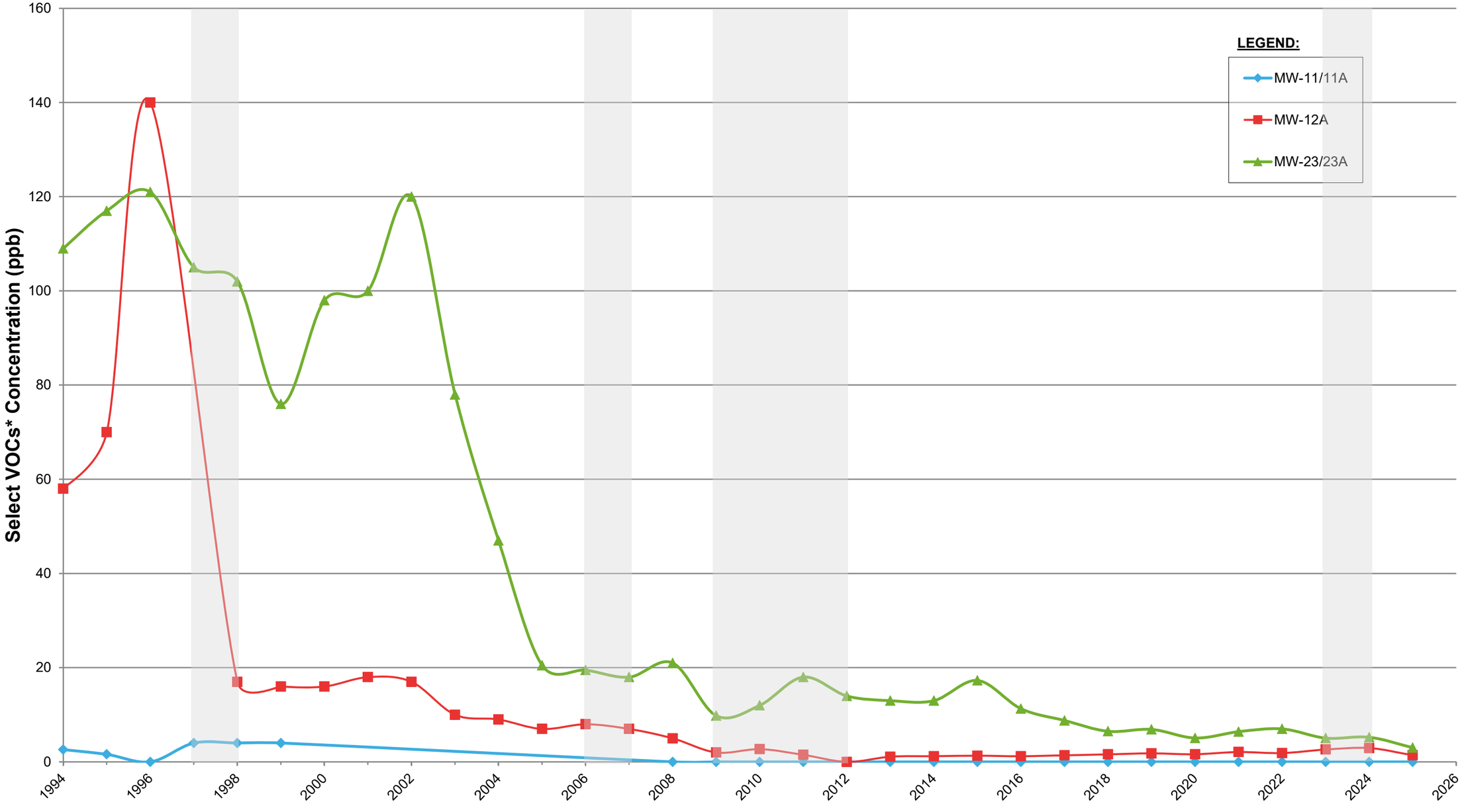
REV NO.

\\227708677\drawings\cvr\2025\Figure 3_Proposed GW Network.dwg

**Figure 4 - Landfill Gas Management and Water Quality (1994 - Present)**

Dickinson Landfill - Spirit Lake, Iowa

Permit No. 30-SDP-01-75P




**Notes:**

* IDNR specified Assessment VOC parameters, as per Landfill permits pre-2009. Highest sum of specified VOC detections for a given monitoring year:
- MW-11/11A = Benzene
- MW-12A = Beneze, Trichloroethene, 1,2-Dichloroethane, & Carbon Tetrachloride
- MW-23/23A = Benzene, Trichloroethene, & 1,2-Dichloroethane.

**Landfill Gas (LFG) Management System:**

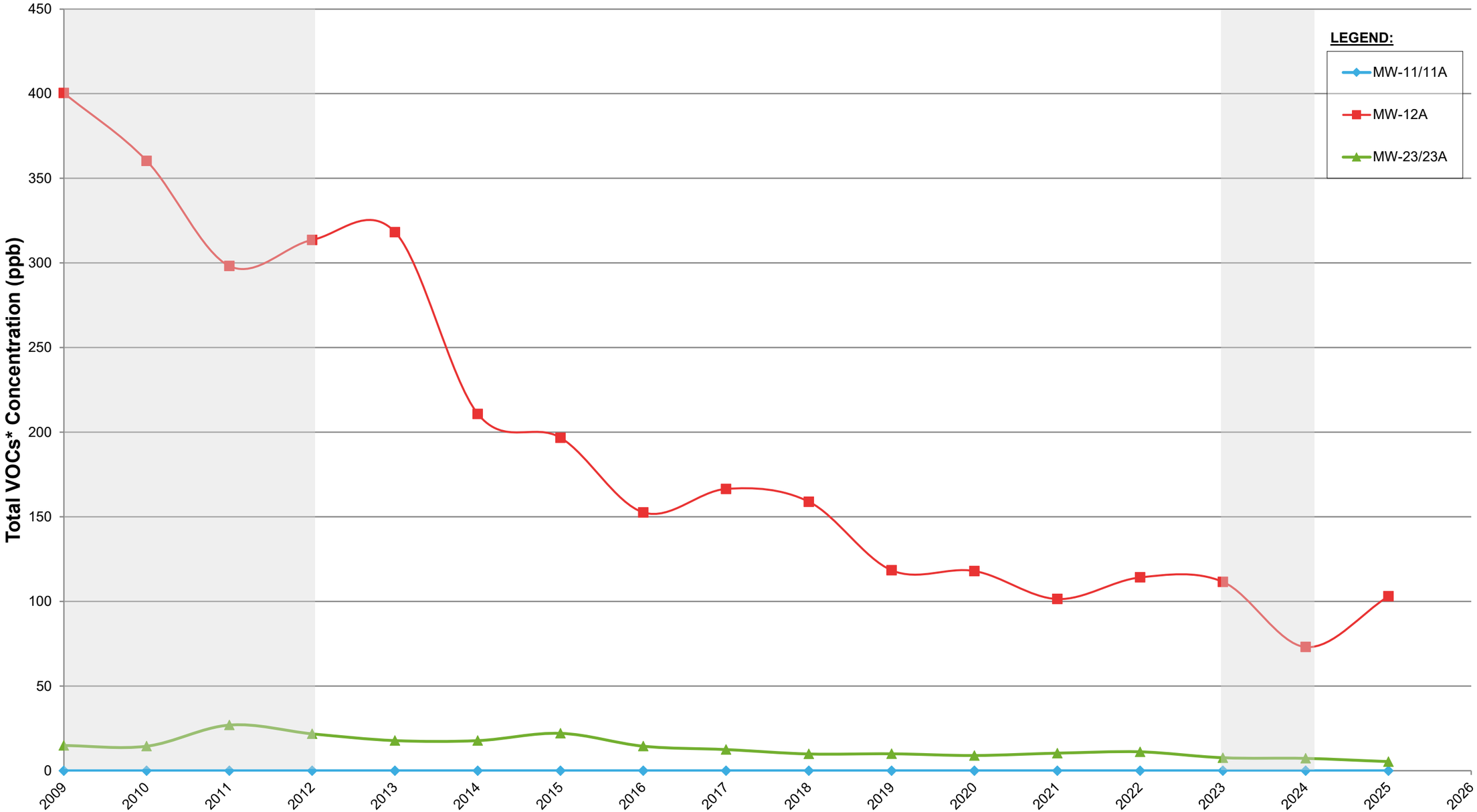
Shaded date ranges denote periods of improvements to the LFG Management System.
- 1997: Landfill installs three deep passive LFG vents
- 2006: Passive LFG vents are converted to an active LFG extraction system.
- 2009-2012: Enhancements to Landfill's LFG extraction system.
- 2023-2024: Incorporation of new LFG extraction wells & continued system enhancements.

\\us0242-ppfss01\shared_projects\227702550\technical\tables\Figs 5&6_gas-management&water-quality.xlsx

**Figure 5 - Landfill Gas Management and Water Quality (2009 - Present)**

Dickinson Landfill - Spirit Lake, Iowa

Permit No. 30-SDP-01-75P




**Notes:**

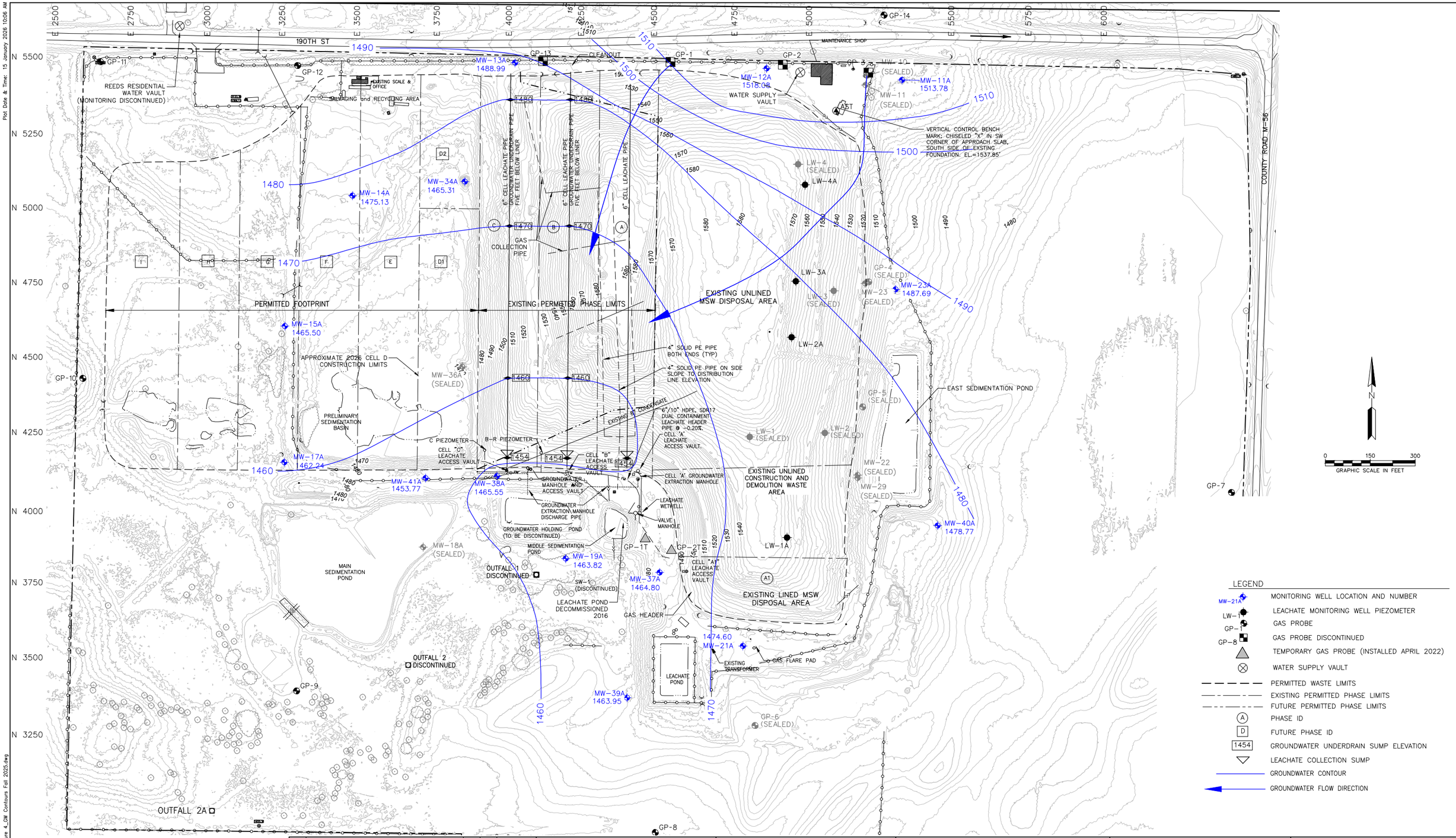
* IDNR Detection Monitoring VOC parameters, as per Landfill permits post-2009. Highest sum of confirmed VOC detections for a given monitoring year:

**Landfill Gas (LFG) Management System:**

Shaded date ranges denote periods of improvements to the LFG Management System.

- 2009-2012: Enhancements to Landfill's LFG extraction system.
- 2023-2024: Incorporation of new LFG extraction wells & continued system enhancements

\\us0242-ppfss01\shared_projects\227702550\technical\tables\Figs 5&6_gas-management&water-quality.xlsx




NOTE:
TOPOGRAPHY TAKEN BY AERIAL SURVEY ON MARCH 10, 2025.

| REV | REVISION DESCRIPTION | DWN | APP | REV DATE |
|---|---|---|---|---|

SEAL

SUB CONSULTANT

PRIME CONSULTANT

Stantec

PROJECT TITLE
2025 ANNUAL REPORT

DICKINSON COUNTY LANDFILL
SPIRIT LAKE, IA

SHEET TITLE
FALL 2025
GROUNDWATER CONTOURS

| DWN BY | CHK'D | APP'D | DWG DATE |
|---|---|---|---|
| JJT | CDK | CJA | JAN. 2026 |

SCALE AS NOTED

| PROJECT NO. | SHEET NO. | REV NO. |
|---|---|---|
| 227708677 | FIGURE 6 | |

Plot Date & Time: 15 January 2026 10:06 AM

U:\227708677\drawings\civil\2025\Figure 4_GW Contours Fall 2025.dwg

# Appendices

# Appendix A Leachate Control System Performance (LCSPE) Report

# LEACHATE CONTROL SYSTEM EVALUATION

Permit #30-SDP-1-75P

January 29, 2026

Prepared for:
Dickinson Landfill, Inc.
2575 190th Street
Spirit Lake, IA 51360

Prepared by:
Stantec Consulting Services Inc.
One Carlson Parkway, Suite 100
Plymouth, MN 55447

Project Number:
227708677

**LEACHATE CONTROL SYSTEM EVALUATION**
**Signature Page**
January 2026

I hereby certify that this report was prepared by me or under my direct supervision, and that I am a duly licensed Professional Engineer under the laws of the State of Iowa.

Megan Ambuehl

Megan Ambuehl, P.E.
State Registration No. 22598
License Renewal Date: 12/31/2026

1/29/2026
Date



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2.2 Leachate Line Cleaning ..... 2-2

2.3 Leachate Disposal ..... 2-2

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1 Leachate Head Data Summary

**FIGURES**

1 Existing Conditions and Monitoring Locations

# 1 Introduction

This Leachate Control System Performance Evaluation (LCSPE) Report has been prepared as a supplement to Dickinson Landfill Inc.'s (DLI) Annual Water Quality Report, in accordance with the requirements of 567 IAC Chapter 113.7(5)"b"(14) and the facility's March 1, 2021 permit (#30-SDP-01-75P most recently revised on November 4, 2025).

This LCSPE Report summarizes the annual operation and maintenance and includes an evaluation of the system in controlling the leachate, leachate head levels and elevations, the volume of leachate collected and transported or discharged, records of leachate testing completed, and proposed changes to the system.

# 2 Leachate Collection and Treatment System Operation and Maintenance

Leachate collected from the lined fill areas of the landfill drains to the south (Phases A, B and C) or west (Phase A1) to the collection sumps where it is removed via submersible pumps installed within sideslope riser pipes, which are perforated at the sump. The leachate pumps are automatically activated by a pressure transducer attached to the pump and calibrated to maintain less than 12-inches of head on the liner. Leachate is pumped from the sumps to the leachate storage pond through discharge piping installed below the frost line.

Significant modifications to the leachate extraction, transfer and storage systems were completed in 2011. The improvements included re-design of the leachate extraction, delivery, and storage system, replacement of all pumps and controls for the four leachate collection sumps, including new flow meters, installation of a new 4-inch/8-inch dual containment force main to replace the original 6-inch/10-inch dual containment gravity piping system to the lift station, and construction of a new 1,000,000-gallon leachate storage pond and loadout pad adjacent to the flare station. Improvements included upgrades to the corresponding electrical systems.

Following completion of the construction of the 1,000,000-gallon pond in 2011, use of the old leachate storage pond (the “old pond”) for main storage was discontinued. The old pond (concrete lagoon and obsolete infrastructure/controls) was removed in 2018 as part of planned site work. The 2018 work was documented within the “2018 Evapotranspiration Cover System Construction” report (Barker Lemar, December 2018). The old lagoon was replaced with a sedimentation basin to manage runoff from the closed portion of the landfill.

Other improvements related to the leachate management system completed as part of the 2018 work, as documented by Barker Lemar, included installation of concrete block retaining walls, extension of existing leachate riser piping, extension of concrete vault walls, and/or extension/re-routing of conduit and control panel components at the existing leachate vault locations due to site grading changes. A leachate haul truck road was also constructed. The system improvements did not alter the way that leachate is extracted, transferred, or stored at the facility.

In early 2022, as reported with the 2021 LCSPE report, improvements were made to the leachate vaults at the site in response to a leachate release. Backflow preventers and valves were replaced in the leachate vaults and a float system with interlocked relays was installed as a spill prevention measure.

There were no improvements or additions made to the leachate collection and treatment system in 2025.

There was no leachate system maintenance needed in 2025. The leachate lines were cleaned in July 2024 and cleaning is only required every 3 years.

## 2.1 Leachate Seeps and Spills

There were no leachate seeps or spills at DLI in 2025. DLI will continue to monitor and record any leachate seeps and spills throughout 2026 if any occur.

## 2.2 Leachate Line Cleaning

Leachate collection system cleaning was performed on July 26th and 29th, 2024 by Superior Jetting of Zimmerman, MN. No significant problems were encountered during the cleaning event; documentation was provided in the 2024 annual LCSPE report. Leachate line cleaning is required to be completed every three years; DLI plans to have the leachate lines cleaned within the required timeframe.

## 2.3 Leachate Disposal

Leachate is pumped from the leachate storage pond(s) as needed and is typically trucked to the City of Spencer WWTP for management. In 2025, all leachate was hauled to Spencer WWTP.

Leachate management in the past has included evaporation or application to the landfill working face in accordance with the facility permit at the time the activity took place. In 2025, leachate management consisted solely of trucking to the WWTPs for management. DLI acknowledges that in the future if the DLI would like to recirculate leachate, a permit amendment request and approval would be needed.

The agreement with the City of Spencer, Iowa for leachate disposal was executed in 2007 and is renewed annually. According to DLI records, in 2025, 1,961,849 gallons of leachate was pumped from the leachate storage ponds and trucked to the Spencer WWTP.

Although Special Provision #6 of the March 1, 2021 permit allows the use of a Landshark 45 Evaporator to promote evaporation from the lined leachate storage lagoon, the evaporator was not used in 2025. Operation of the Landshark 45 was initiated in July 2012 and was operated in 2012 and 2013, as conditions allowed. Dickinson Landfill elected to discontinue use of the Landshark Evaporator after 2013.

# 3 Leachate Control system Performance Evaluation

## 3.1 Leachate Head Level Monitoring System and Records

Existing conditions and monitoring locations at the Landfill are shown on **Figure 1**.

The leachate head well monitoring system in the unlined portion of the Landfill currently consists of four (4) leachate monitoring wells (LW-1A through LW-4A). Construction documentation of the current monitoring wells was provided to the Iowa Department of Natural Resources (IDNR) in a letter dated June 20, 2000. These locations have been historically monitored; however, in 2025, data from these wells were either not collected or cannot be located due to staff turnover at the landfill. DLI is aware of this missing information and will ensure that these locations are measured in 2026.

Monitoring of the leachate levels in the lined areas of the landfill (Phase A, A1, B, and C) has been and will continue to be completed monthly using the transducers attached to the leachate collection pumps. IAC 113.7(5)”b”(3) requires “an additional monitoring device”, in addition to measuring leachate head on the liner in the sumps. Piezometers in Phases B and C serve as the additional monitoring points. Monitoring of the current Phase B piezometer was initiated in December 2000. The original piezometer was damaged and was replaced with an alternative sideslope design during construction of Phase C in the summer of 2007. Information on the location and configuration of the replacement piezometer was provided in the 2007 LCSPE.

Piezometers C and B-R were not recorded due to damaged level transducers and were covered with soil until December of 2025. In December, these piezometers were both jetted to remove any foreign materials to facilitate future readings. Therefore, the data record for the lined areas is incomplete for 2025, but the primary compliance points were recorded.

All leachate collection systems installed at DLI have been designed to maintain less than 12-inches (30-cm) of leachate head on the liner system in accordance with IAC 113.7(5)”b”(3), and the corresponding EPA Subtitle D regulations (40 CFR Part 258). MSW Landfill Criteria Technical Manual (EPA 530-R- 093-017) specifically acknowledges, however, that the 12- inches (30-cm) head allowance is a design standard and may be exceeded for relatively short periods of time during the active life of a landfill.

### 3.1.1 LEACHATE HEAD MONITORING WELLS – UNLINED DISPOSAL AREA

The unlined area has been closed since 2018 and historic depth to leachate measurements have been inconsistent. As discussed, data from these wells is not available for 2025, however, there have been no indications of excess leachate or altered conditions from the historical observations in the unlined area.

### 3.1.2 HEAD ON LINER

Data was collected in the primary monitoring transducers from January to December in 2025 and is presented on attached **Table 1**. Transducer reading indicated substantial compliance throughout 2025. There was an elevated leachate level reading in Phase B during July of 2025 (40.5 inches recorded). The elevated leachate level readings were due to the pump being inoperable for a period of time due to an electrical relay malfunction within the control panel. Levels quickly subsided in the month of August and remained below the compliance threshold for the remainder of the year. Head on liner will continue to be monitored throughout 2026.

There were no readings taken at the Phase C or B-R piezometers as previously noted above.

## 3.2 Leachate Quality Monitoring

Annual leachate monitoring is required by the Wastewater Treatment Agreement with the City of Spencer. The annual leachate sample was collected on May 12, 2025. The leachate was collected as a grab sample by Minnesota Valley Testing Laboratories from the leachate pond and analyzed by Pace Analytical National Laboratory of Mt. Juliet, Tennessee. The analytical results were previously provided to the IDNR as an attachment to the September 3, 2025, semi-annual monitoring report.

# 4 Conclusions and Recommendations

- Leachate line cleaning was performed in July 2024. Routine maintenance and parts replacement will be completed as necessary, including leachate line cleaning within the required timeframe (next cleaning expected in 2027).
- Leachate head data from the unlined area was not collected routinely (or couldn't be located) in 2025. DLI is aware of this missing information and will ensure that required monitoring is completed with a complete data record to be provided in the future.
- The facility will continue to operate the leachate control system in accordance with the current permit, including consistent measurements of leachate head levels in the lined areas and recording/annual reporting of the volume of leachate collected and transported to each designated wastewater treatment facility.

# TABLES

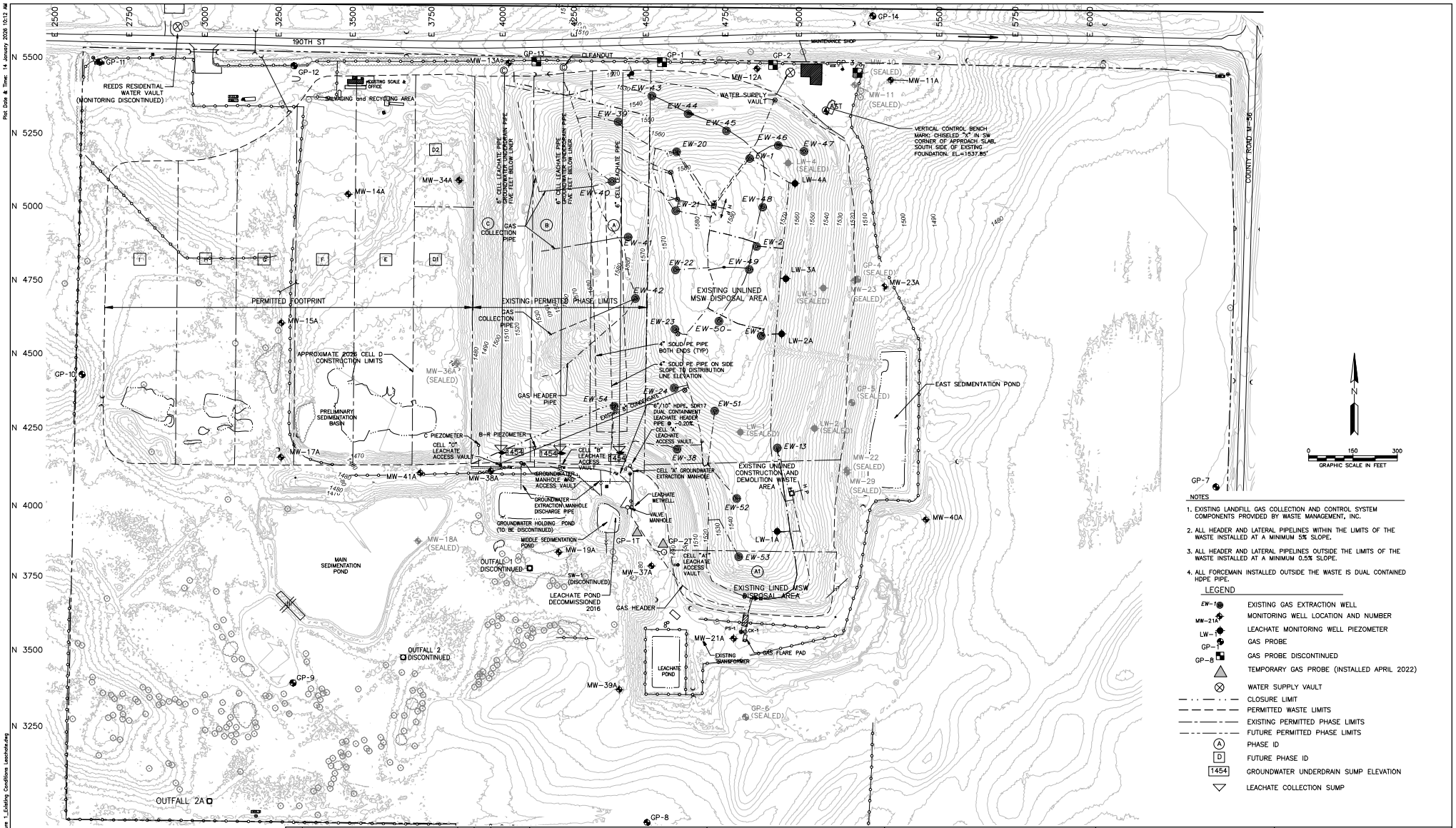
## Table 1 - Dickinson Landfill, Inc. 2025 Leachate Head Data Summary

| Location | Units | Transducer Measurement Corresponding to 12-inches Head on Liner | Jan-25 | Feb-25 | Mar-25 | Apr-25 | May-25 | Jun-25 | Jul-25 | Aug-25 | Sep-25 | Oct-25 | Nov-25 | Dec-25 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LW-1A (see Note 3) | feet | NA | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR |
| LW-2A (see Note 3) | feet | NA | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR |
| LW-3A (see Note 3) | feet | NA | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR |
| LW-4A (see Note 3) | feet | NA | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR |
| Phase A (transducer) | inches | 24.16 | 15.7 | 13.6 | 14.5 | 16.4 | 17.5 | 14.4 | 18.8 | 14.5 | 14.8 | 14.5 | 16.1 | 14.3 |
| Phase A1 (transducer) | inches | 24.0 | 15.3 | 15.7 | 16.0 | 14.8 | 16.8 | 14.8 | 17.8 | 15.8 | 15.2 | 15.9 | 15.7 | 16.3 |
| Phase B (transducer) | inches | 26.0 | 16.1 | 15.2 | 15.7 | 15.7 | 23.9 | 19.0 | 40.5 | 16.5 | 15.5 | 15.7 | 15.3 | 15.6 |
| Phase B-R (peizometer - (see Note 3)) | feet | NA | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR |
| Phase C (transducer) | inches | 24.35 | 15.7 | 17.4 | 16.4 | 15.1 | 16.6 | 16.5 | 18.4 | 19.2 | 16.0 | 13.9 | 13.2 | 16.0 |
| Phase C (piezometer - (see Note 3)) | feet | NA | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR | NR |

Notes:

1. NA = Not Applicable
2. NR = Not Recorded (or not available)
3. Transducers were installed in the leachate head wells and piezometers in April 2018. Readings at these locations are measured in feet from the bottom of the well.
4. Readings procured by on-site personnel
5. From March 2002 on, the Phase A and A1 leachate head has been recorded using the pump control pressure transducer only.
6. As previously documented, the original Phase B piezometer was obstructed and replaced with Phase B-R piezometer.

# FIGURES




NOTE:
TOPOGRAPHY TAKEN BY AERIAL SURVEY ON MARCH 10, 2025.

| REV | REVISION DESCRIPTION | DWN | APP | REV DATE |
|---|---|---|---|---|

SEAL

SUB CONSULTANT

PRIME CONSULTANT
Stantec

PROJECT TITLE
2025 ANNNUAL REPORT

DICKINSON COUNTY LANDFILL
SPIRIT LAKE, IA

SHEET TITLE
EXISTING CONDITIONS AND MONITORING LOCATIONS

| DWN BY | CHK'D | APP'D | DWG DATE |
|---|---|---|---|
| JJT | CDK | CJA | JAN. 2026 |

SCALE AS NOTED

PROJECT NO. 227708677

SHEET NO. FIGURE 1

REV NO.

Plot Date & Time: 14 January 2026 10:12 AM

I:\227708677\drawings\cv\2025\Figure 1_Existing Conditions_Leachate.dwg

# Appendix B Landfill Gas Monitoring and Management Report

Stantec

# LANDFILL GAS MANAGEMENT REPORT

Permit #30-SDP-1-75P

January 29, 2026

Prepared for:
Dickinson Landfill, Inc.
2575 190th Street
Spirit Lake, IA 51360

Prepared by:
Stantec Consulting Services Inc.
One Carlson Parkway, Suite 100
Plymouth, MN 55447

Project Number:
227708677

**LEACHATE CONTROL SYSTEM EVALUATION**
**Signature Page**
January 2026

I hereby certify that this report was prepared by me or under my direct supervision, and that I am a duly licensed Professional Engineer under the laws of the State of Iowa.

Megan Ambuehl

Megan Ambuehl, P.E.
State Registration No. 22598
License Renewal Date: 12/31/2026

1/29/2026
Date



# Table of Contents

**1 INTRODUCTION ..... 1.1**

**2 LANDFILL GAS COMPLIANCE MONITORING SYSTEM ..... 2.1**

**3 TEMPORARY GAS PROBE MONITORING ..... 3.1**

**4 LANDFILL GAS MANAGEMENT ..... 4.1**

4.1 Odor Control ..... 4.2

**TABLES**

1 Landfill Gas Monitoring Locations
2 2025 Gas Monitoring Readings

**FIGURES**

1 Site Location Map
2 Existing Conditions and Monitoring Locations (aerial photo)
3 Existing Conditions and Monitoring Locations (with contour)

# 1 Introduction

In 1996, landfill gas was verified as the source of VOC impacts identified in some groundwater monitoring wells at the Dickinson Landfill, Inc. (DLI) site (see **Figure 1** for site location). In response to the landfill gas related impacts, landfill gas management was initiated as a groundwater corrective action in 1997. These initial corrective actions have been significantly enhanced over the years. In 2006 an active gas extraction system with a utility flare became operational. Additional upgrades and expansions to the gas extraction system have been completed over the last several years.

The active extraction system remains in operation and is continually optimized by monthly monitoring and tuning of the wellfield. A gradual improvement in groundwater quality has been identified through ongoing VOC groundwater monitoring. The 2025 Groundwater Annual Report includes an evaluation of the effect of the corrective actions on groundwater quality.

Landfill gas compliance monitoring requires quarterly monitoring of the landfill gas probes, facility structures, and rural water line access vaults. The landfill gas monitoring network was upgraded in 2009 with the addition of seven new probes for a total of 10 monitoring points. During 3rd quarter 2014, monitoring probes #1, #2, #3 and #13 were discontinued as monitoring locations and replaced with new monitoring probe #14, located on IDNR wildlife property on the north side of County Road A-31. On-site occupied buildings contain wall mounted continuous monitoring devices. Additional monitoring of rural water line access vaults is also completed. The Landfill Gas Monitoring Plan was updated November 2015 to reflect the approved revised monitoring network. Monitoring locations are shown on **Figure 2** and **Figure 3**.

Per IDNR request, the site also monitors methane at monitoring well MW-11A.

A subsurface investigation took place in 2022 which included the addition of temporary gas monitoring probes. These probes are not compliance points but are discussed briefly in this report in the context of the complete gas management and monitoring system at the site.

# 2 Landfill Gas Compliance Monitoring System

The gas-monitoring program requires quarterly monitoring of the landfill gas probes, facility structures, and rural water line access vaults. The allowable limits for combustible gas monitoring are 25% of the Lower Explosive Limit (LEL) for facility structures (or 1.25% methane) and 100% LEL (or 5% methane) for the perimeter monitoring probes located at the property boundary. The November 2015 Landfill Gas Monitoring Plan update describes the landfill gas monitoring system and was approved by the IDNR with Special Provision #5 of the facility permit.

The landfill gas compliance monitoring network currently consists of seven gas monitoring probes located at or near the property boundary and monitoring within the Office/Scale House and the Maintenance Building. The system monitoring points are listed on **Table 1** and the locations are illustrated on **Figure 2** and **Figure 3**. The perimeter gas probe monitoring network was upgraded in 2009 with the installation of seven new gas monitoring probes designated as GP-7 through GP-13. Three previously installed gas probes (GP-4, GP-5 & GP-6) were sealed as they were not properly located for compliance monitoring. Probes GP-4 and GP-5 were sealed in August of 2009 with remaining materials removed in 2014 during ET cover system construction at the site. Review of site records indicates that GP-6 was also sealed prior to March 2009 and subsequently removed.

As reported to the IDNR over the years and during the first 2 quarters of 2014, intermittent compliance exceedances were documented at four probes (#1, #2, #3, and #13) all located along the northern fence line separating the landfill from the County Road A-31 right-of-way. As also reported, the exceedances in these four probes and review of additional supporting monitoring information never indicated any threats to human health or the environment. In 3rd quarter 2014, monitoring of probes #1, #2, #3 and #13 was discontinued and replaced with monitoring of probe #14, located on the IDNR wildlife property on the north side of County Road A-31. The installation of probe #14 was approved by IDNR Land Quality Bureau via Permit Amendment No. 19, and by the IDNR via Sovereign Lands Construction Permit No. 14-106. Methane has not been detected at GP-14.

Per IDNR request, gas readings are also collected at monitoring well MW-11A. MW-11A is located on the south side of County Road A-31, across from GP-14 (on DLI property). No methane was detected at the well.

Monitoring within buildings is accomplished with continuous wall mounted Beacon 410 Gas Monitors with alarms set at a low level (10% of LEL) below the compliance limit of 25% LEL. Monitoring of on-site buildings has not identified any compliance issues and as there are no nearby off-site buildings or homes, there is no apparent risk to human health.

In addition, since mid – 2013, the Landfill monitors rural water force main vaults for the presence of methane. Two vaults are located on landfill property by the shop. There is a historically monitored vault located at the edge of the north neighboring property, across the road to the north of the Landfill office. In 2021, the dwelling on the property north of the site was moved off the property; therefore, this rural water

vault has not been monitored since removal of the dwelling. This dwelling was noted as “Reeds Residential Water Vault” in the past annual reports.

The attached **Table 2** shows the 2025 gas probes and MW-11A methane readings. MW-11A was monitored in October and December in 2025. Onsite vaults, located near the shop and scale house, have historically been monitored each year but were not monitored in 2025. However, continuous monitoring of onsite buildings continued throughout 2025. All 2025 landfill gas monitoring data was below the compliance limits for methane readings.

The continuous monitors located in the buildings remain operable and are tested monthly. There were no exceedances recorded in the facility buildings in 2025.

# 3 Temporary Gas Probe Monitoring

A subsurface investigation occurred in 2022. The investigation was to source evaluate and delineate the vertical extent of elevated arsenic concentrations in the vicinity of monitoring well MW-37A. Two temporary gas probes (GP-1T and GP-2T) were installed concurrently with the 2022 MW-37A Subsurface Investigation. The gas probes were used to further assist in evaluating potential contributing sources of the elevated arsenic concentrations observed at MW-37A. It is noted that temporary gas probes GP-1T and GP-2T are not a part of the Landfill Gas Compliance Monitoring System and are used only to monitor potential landfill gas migration in the vicinity of MW-37A.

The MW-37A gas probe GP-2T indicated the presence of methane in February (26%, 24.1%) and March (14.9%). Landfill personnel were contacted to review landfill conditions that could potentially have affected the difference in the monitoring data for February and March. Upon review of the initial methane detection on February 26th, 2025, DLI inspected the onsite LFG flare to ensure it was in operation and that the wellfield was receiving vacuum from the blower. The wellfield was receiving vacuum and DLI made adjustments to the wellfield in an attempt to increase gas collection in the area and continued to monitor. There was no detected methane in the adjacent temporary gas probe (GP-1T) and thus DLI continued to monitor GP-1T and GP-2T according to the quarterly schedule. Subsequent gas monitor readings resulted in 0% methane within GP-1T and GP-2T until December of 2025.

In December of 2025, GP-1T and GP-2T (located near MW-37A) both indicated the presence of elevated methane levels of 68.5% and 64.9%, respectively. DLI replaced the blower and performed repairs to the flare in December of 2025 in an effort to mitigate further downtime of the flare system going into 2026. While the blower was inoperable, LFG from the wellfield was unable to be collected and vacuum was not applied to the wellfield. The elevated methane levels recorded during the December monitoring event coincide with the blower being down and the flare being repaired. DLI will continue to monitor these temporary probes in 2026 to ensure the new flare system continues to mitigate any potential migration of LFG in the area.

# 4 Landfill Gas Management

Landfill gas management was initiated in 1997 with the installation of three passive gas vents (EW-1, EW-2 and EW-3) that were installed as a groundwater corrective action to address the gas related VOC impacts identified in some groundwater monitoring wells. The passive gas vent wells were subsequently incorporated into the active gas collection system that became operational in Phase A in December 2006.

The Landfill made numerous improvements to the landfill gas collection system in the summer of 2009 with the installation of gas collection header pipes, re-connection of gas wells, and connection to leachate head wells. Further enhancements were made in August 2010 when new horizontal collection lines, valves and cleanouts were installed. More significant enhancements were made in 2011 with the installation of four collection wells, gas header pipe, subheader pipe, lateral pipe, new wellhead assemblies to existing wells, vacuum piping and horizontal collectors. The 2011 work was documented within the “2011 Landfill Gas Extraction System Construction” report (Wenck, November 2011).

Significant additional improvements were made to the landfill gas collection system in 2012. The improvements were documented within the “2012 Landfill Gas System Improvements” report (Waste Management, November 2012) and included eight new vertical extraction wells (EW-43 through EW-50) with wellhead assemblies, installation of 1,200 feet of header pipe and 300 feet of lateral pipe. The installation work was largely completed in October 2012.

Improvements were, again, made to the landfill gas collection system in 2018 to improve overall vacuum, maintain the improving groundwater quality trends, and provide additional odor control. The improvements were documented in the 2018 Evapotranspiration (ET) Cover System Construction Documentation Report (December 2018 by Barker Lemar). The improvements included installation of horizontal collectors at extraction wells EW-40 and EW-42 extending to the northwest and southwest from each well, respectively. A 12-inch header pipe was also installed along the south side of the closure area to allow for future extension and expansion. The header pipe extension included a gravity condensate drain (drip leg).

A new flare was installed on November 3rd, 2021. An Air Quality Construction Permit was issued by IDNR on August 30, 2021, for the flare replacement project. While no major changes occurred to the flare in 2022, the blower on the flare was updated in 2023. As a result of ongoing down time and required maintenance of the LFG flare in 2025, DLI again replaced the blower at the flare in December. The replacement blower was installed with a new VFD control system that is meant to improve efficiency by adjusting throughput of the flare based on the volume of gas present within the wellfield at a given time. Flare readings were collected 2-3 times per week.

Five new vertical wells were installed as part of the gas management system improvements in 2022. The associated horizontal/lateral gas line installation was completed in 2023. In 2024, DLI installed additional gas collection piping and infrastructure, and a horizontal gas collector in the active disposal area. In 2025, no new wells nor laterals were completed. The gas management system infrastructure is shown on **Figure 3**.

Looking ahead into 2026, DLI plans to construct a portion of Cell D which will include supplemental LFG infrastructure for future gas collection within the proposed cell. DLI will keep the INDR updated on this project and any other construction planned in 2026.

Management of the gas extraction system continues to be an active process with the monitoring probes and extraction system monitored on a routine basis and adjustments made as needed to provide system vacuum and flare maintenance to optimize operations of the system.

Well field tuning was performed at a monthly minimum. This active management will continue with the goal of continuing to maintain and improve groundwater corrective actions, control landfill gas migration and assist with odor control.

## 4.1 Odor Control

During 2016, the landfill experienced random odors. The site acted to work with the IDNR and local residents to develop an Odor Management Plan, identify potential sources, and improve active gas system management. In 2017, DLI conducted a site review and subsequently made gas extraction system adjustments, maximized flare operation, and applied more cover materials. The landfill also installed a remote monitoring system for the flare. The landfill will continue to assess the gas management system and make adjustments, as necessary, to maximize landfill gas extraction.

In 2018, DLI continued to address odor concerns and an odor assessment was completed in October. Based on the assessment, DLI placed additional cover material in several areas. Additional cover soil was also placed and compacted with a “jumping jack” style tamper around several gas system pipe penetrations. Other gas system pipe penetrations that may have been a source of odors were eliminated during the capping event, as documented in the 2018 Evapotranspiration (ET) Cover System Construction Documentation Report.

DLI has not received any notice of odor concerns or complaints since 2018.

# TABLES

# Table 1

## Dickinson Landfill, Inc.
## Landfill Gas Monitoring Probes

| Gas Probe ID | Depth (ft) | Surface Elev. | Status / Description |
|---|---|---|---|
| GP-1 | 20 | na | Not a compliance monitoring point |
| GP-2 | 20 | na | Not a compliance monitoring point |
| GP-3 | 20 | na | Not a compliance monitoring point |
| GP-4 | 15 | na | Sealed with grout Aug '09; remaining materials removed summer 2014 |
| GP-5 | 15 | na | Sealed with grout Aug '09; remaining materials removed summer 2014 |
| GP-6 | 30 | na | Sealed/removed during construction/grading in 2010 |
| GP-7 | 10 | 1473 | Compliance point, East of LF |
| GP-8 | 7.5 | 1464.9 | Compliance point, south side of LF |
| GP-9 | 10 | 1462.9 | Compliance point, southwest side of LF |
| GP-10 | 15.5 | 1479.3 | Compliance point, West of LF |
| GP-11 | 20 | 1494.1 | Compliance point, NW corer of LF |
| GP-12 | 10 | 1492.6 | Compliance point NW corner of LF |
| GP-13 | 25 | 1512 | Not a compliance monitoring point |
| GP-14 | 18 | 1521.7 | Compliance point, northeast side of LF |

**Structures**

Office/Scalehouse (incorporates a continuous wall mounted monitor)

Maintenance Building (incorporates continuous wall mounted monitor)

Phase A/B Groundwater Underdrain System manhole - not a compliance point as is unoccupied and managed as a confined space; air monitoring is completed as necessary for confined space entry.

**Other**

Per IDNR request, MW-11A is also monitored for methane (as of 2018).

Update Oct '14 with addition of GP-14

Update Nov '16 w/ details of sealing GP-4 & 5

Update Jan '18 w/ details of GP-6 status

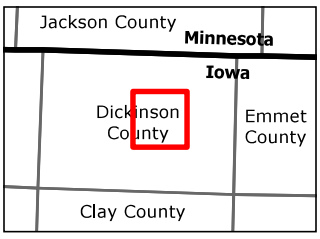
Update Jan '19 w/ notes of MW-11A

**Table 2 - 2025 Gas Monitoring Readings**

| Device Name | Date Time | CH4 (Methane)(%) |
|---|---|---|
| DCLGP-07 | 2/26/2025 13:18 | 0 |
| DCLGP-07 | 4/15/2025 16:39 | 0 |
| DCLGP-07 | 5/27/2025 16:26 | 0 |
| DCLGP-07 | 8/5/2025 11:23 | 0 |
| DCLGP-07 | 10/7/2025 9:27 | 0 |
| DCLGP-07 | 12/17/2025 16:45 | 0 |
| DCLGP-08 | 1/3/2025 11:28 | 0 |
| DCLGP-08 | 4/15/2025 16:03 | 0 |
| DCLGP-08 | 5/27/2025 15:28 | 0 |
| DCLGP-08 | 8/5/2025 12:11 | 0 |
| DCLGP-08 | 10/7/2025 10:03 | 0 |
| DCLGP-08 | 12/17/2025 15:49 | 0.1 |
| DCLGP-09 | 1/3/2025 11:35 | 0.2 |
| DCLGP-09 | 4/15/2025 16:16 | 0 |
| DCLGP-09 | 5/27/2025 15:41 | 0 |
| DCLGP-09 | 8/5/2025 11:48 | 0 |
| DCLGP-09 | 10/7/2025 9:47 | 0 |
| DCLGP-09 | 12/17/2025 16:10 | 0 |
| DCLGP-10 | 1/3/2025 11:50 | 0 |
| DCLGP-10 | 4/15/2025 16:22 | 0 |
| DCLGP-10 | 5/27/2025 16:07 | 0 |
| DCLGP-10 | 8/5/2025 11:35 | 0 |
| DCLGP-10 | 10/7/2025 9:39 | 0 |
| DCLGP-10 | 12/17/2025 16:18 | 0 |
| DCLGP-11 | 2/26/2025 13:07 | 0.1 |
| DCLGP-11 | 4/15/2025 16:33 | 0 |
| DCLGP-11 | 5/27/2025 16:18 | 0 |
| DCLGP-11 | 8/5/2025 11:05 | 0 |
| DCLGP-11 | 10/7/2025 9:14 | 0 |
| DCLGP-11 | 12/17/2025 16:52 | 0 |
| DCLGP-12 | 2/26/2025 12:54 | 0.1 |
| DCLGP-12 | 4/15/2025 16:31 | 0 |
| DCLGP-12 | 5/27/2025 16:15 | 0 |
| DCLGP-12 | 8/5/2025 10:59 | 0 |
| DCLGP-12 | 10/7/2025 9:09 | 0.1 |
| DCLGP-12 | 12/17/2025 16:54 | 0 |
| DLFGP-14 | 2/26/2025 13:10 | 0 |
| DLFGP-14 | 4/15/2025 16:36 | 0 |
| DLFGP-14 | 5/27/2025 16:23 | 0 |
| DLFGP-14 | 8/5/2025 11:17 | 0 |
| DLFGP-14 | 10/7/2025 9:19 | 0 |
| DLFGP-14 | 12/17/2025 16:49 | 0 |
| DGMW11-A | 10/15/2025 16:38 | 0 |
| DGMW11-A | 12/17/2025 16:37 | 0 |
| GP2T | 2/26/2025 12:44 | 26 |
| GP2T | 2/26/2025 14:50 | 24.1 |
| GP2T | 3/17/2025 19:05 | 14.9 |
| GP2T | 4/15/2025 16:10 | 0 |
| GP2T | 5/27/2025 15:59 | 0 |
| GP2T | 8/5/2025 10:54 | 0 |
| GP2T | 10/7/2025 9:55 | 0 |
| GP2T | 12/17/2025 15:40 | 64.9 |
| GP1T | 2/26/2025 12:39 | 0 |
| GP1T | 4/15/2025 16:08 | 0 |
| GP1T | 5/27/2025 15:57 | 0 |
| GP1T | 8/5/2025 10:52 | 0 |
| GP1T | 10/7/2025 9:57 | 0 |
| GP1T | 12/17/2025 15:38 | 68.5 |

# FIGURES






Legend
- Landfill Property Boundary
- Half Mile Radius
- Houses

0 2,500 5,000 Feet
(At original document size of 8.5x11)
1:60,000

N

Stantec

*Project Location*
T99N, R36W, S27
Dickinson Co,. IA

Prepared by BS on 2026-01-20

*Client/Project*
Dickinson Landfill, Inc.
2025 Annual Report

227708677

*Figure No.*
1

*Title*
**Site Location Map**

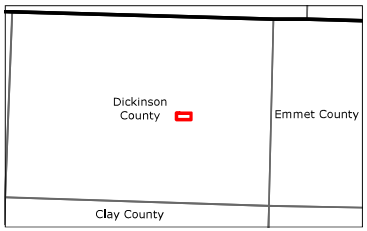
***Notes***
1. Coordinate System: NAD 1983 UTM Zone 15N
2. Data Sources: USDA
3. Background: NAIP 2023 Imagery



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Legend

- Landfill Property Line
- Closed Area
- Landfill Gas Flare Pad
- Sediment Pond
- Existing Permitted Boundary
- Permitted Waste Limits
- Existing Phase Limits
- Future Phase Limits
- Water Vaults
- Culvert
- Outfall
- Temporary Gas Probe (Installed April 2022)
- Gas Probe (Discontinued)
- Gas Probe
- Groundwater Monitoring Well
- Parcels (Source: Dickinson County)

0 225 450 Feet
(At original document size of 11x17)
1:5,400

N

**Notes**
1. Coordinate System: NAD 1983 StatePlane Iowa North FIPS 1401 Feet
2. Data Sources: ESRI, Stantec
3. Background: 2024 Aerial Photograph (Source: Maxar), 2020 Drone Imagery (Source: Stantec Survey)

Stantec

*Project Location* — Prepared by BS on 2026-01-20
T99N, R36W, S27
Dickinson Co., IA

*Client/Project* — 227708677
Dickinson Landfill, Inc.
2025 Annual Report

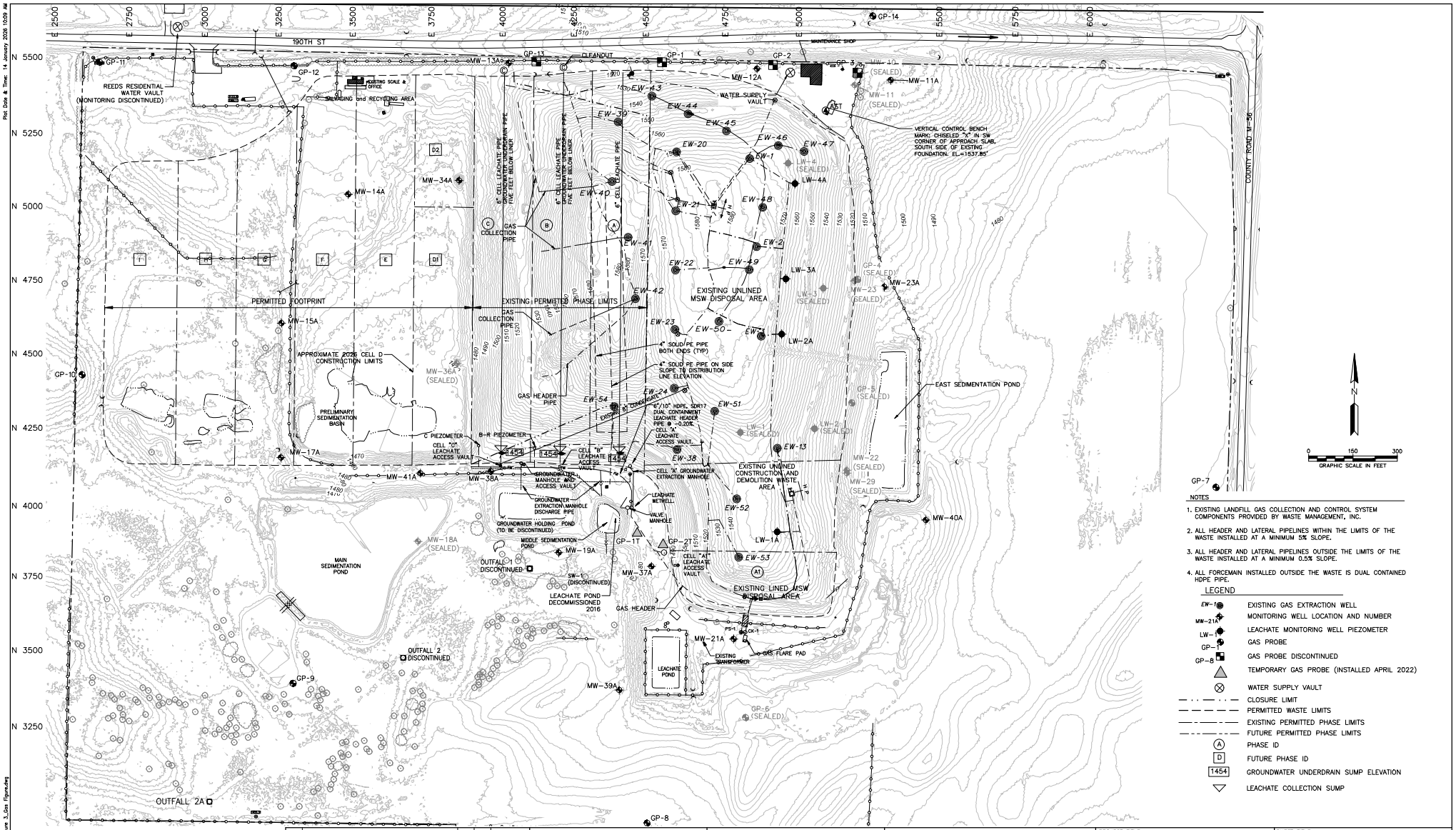
*Figure No.*
**2**

*Title*
**Existing Conditions & Monitoring Locations**



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NOTES

1. EXISTING LANDFILL GAS COLLECTION AND CONTROL SYSTEM COMPONENTS PROVIDED BY WASTE MANAGEMENT, INC.
2. ALL HEADER AND LATERAL PIPELINES WITHIN THE LIMITS OF THE WASTE INSTALLED AT A MINIMUM 5% SLOPE.
3. ALL HEADER AND LATERAL PIPELINES OUTSIDE THE LIMITS OF THE WASTE INSTALLED AT A MINIMUM 0.5% SLOPE.
4. ALL FORCEMAIN INSTALLED OUTSIDE THE WASTE IS DUAL CONTAINED HDPE PIPE.

LEGEND

- EW-1 — EXISTING GAS EXTRACTION WELL
- MW-21A — MONITORING WELL LOCATION AND NUMBER
- LW-1 — LEACHATE MONITORING WELL PIEZOMETER
- GP-1 — GAS PROBE
- GP-8 — GAS PROBE DISCONTINUED
- TEMPORARY GAS PROBE (INSTALLED APRIL 2022)
- WATER SUPPLY VAULT
- CLOSURE LIMIT
- PERMITTED WASTE LIMITS
- EXISTING PERMITTED PHASE LIMITS
- FUTURE PERMITTED PHASE LIMITS
- (A) — PHASE ID
- [D] — FUTURE PHASE ID
- 1454 — GROUNDWATER UNDERDRAIN SUMP ELEVATION
- LEACHATE COLLECTION SUMP

NOTE:
TOPOGRAPHY TAKEN BY AERIAL SURVEY ON MARCH 10, 2025.

| REV | REVISION DESCRIPTION | DWN | APP | REV DATE |
|---|---|---|---|---|

SEAL

SUB CONSULTANT

PRIME CONSULTANT

Stantec

PROJECT TITLE
2025 ANNNUAL REPORT

DICKINSON COUNTY LANDFILL
SPIRIT LAKE, IA

SHEET TITLE
EXISTING CONDITIONS AND MONITORING LOCATIONS

| DWN BY | CHK'D | APP'D | DWG DATE |
|---|---|---|---|
| JJT | CDK | CJA | JAN. 2026 |

SCALE AS NOTED

PROJECT NO. 227708677

SHEET NO. FIGURE 3

REV NO.

Plot Date & Time: 14 January 2026 10:09 AM

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# Appendix C  Otter Creek Statistical Report

# GROUND WATER STATISTICS

# FOR THE

# DICKINSON COUNTY LANDFILL

Second Semi-Annual Monitoring Event in 2025

Prepared for:
**Dickinson County Landfill**
2575 190th Street
Spirit Lake, Dickinson County, IA

Prepared by:
Jeffrey A. Holmgren
**Otter Creek Environmental Services, LLC**
Elgin, IL
(847) 464-1355

**December 2025**

## INTRODUCTION

This report summarizes the statistical analysis for evaluating the groundwater quality data at the Dickinson County Landfill in Spirit Lake, Dickinson County, Iowa. The plan is designed to detect a release from the facility at the earliest indication so that it is protective of human health and the environment. Both interwell and intrawell methodologies are described and then applied to the Dickinson County Landfill data. The statistical plan conforms with IAC 567, Chapter 113.10 and the USEPA Unified Guidance document ("*Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities,"* March 2009).

### Ground Water Monitoring Program

The groundwater monitoring network for Dickinson County Sanitary Landfill includes background wells MW-11A, MW-13A, MW-34A, and MW-36A and downgradient wells MW-12A, MW-19A, MW-21A, MW-23A, MW-37A, MW-38A, MW-39A, MW-40A, and GU-B/GU-C. Each of the groundwater monitoring wells is to be sampled at least semiannually and analyzed for the detection monitoring parameters listed in 113.10(5), which includes 15 inorganic constituents and 47 organic compounds, summarized in Table 1 below.

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

*Organic Compounds:*

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

*Inorganic constituents:*

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

The ground water data obtained during the 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. Both of these methods were applied to the Dickinson County Landfill data using the DUMPStat® statistical program. DUMPStat® is a program for the statistical analysis of groundwater monitoring data using methods described in "Statistical Methods for Groundwater Monitoring" by Dr. Robert D. Gibbons. The DUMPStat program is completely consistent with all USEPA regulations and guidance and the ASTM D6312-98 guidance.

Ground water statistics are to be done on the inorganic constituents listed. The organic constituents are compared to maximum contaminant levels (MCLs) or practical quantitation limits (PQLs), in lieu of statistical comparisons to historical concentrations.

### Interwell Statistics: Upgradient versus Downgradient Comparisons

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

### Results of the Interwell Statistics

The background data used in this statistical analysis includes the ground water data collected from ground water wells MW-11A, MW-13A, MW-34A, and MW-36A during the period from 2010 through the current data. A summary of the background data from monitoring wells MW-11A, MW-13A, MW-34A, and MW-36A, used to determine the site prediction limits, is listed in Attachment B, Table 1 "Upgradient Data". This statistical method compares the current downgradient determinations to site prediction limits and checks for exceedances.

Table 2 "Most Current Downgradient Monitoring Data", summarizes the current data from downgradient wells MW-12A, MW-19A, MW-21A, MW-23A, MW-37A, MW-38A, MW-39A, and MW-40A compared to the site prediction limits. The holding pond data was also compared to upgradient wells. Prediction limit exceedances are flagged with asterisks. For the parameters evaluated, the prediction limit exceedances detected are summarized in the table below.

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

| Well | Trace Metal | Result | Prediction Limit | Prediction Limit Type | Verified or Awaiting Verification |
|---|---|---|---|---|---|
| Holding Pond | Arsenic, µg/L | 10.9 | 10.0000 | Nonparametric | Awaiting Verification |
| MW-19A | Nickel, µg/L | 33.5 | 21.0000 | Nonparametric | Verified |
| MW-23A | Arsenic, µg/L | 12.2 | 10.0000 | Nonparametric | Verified |
| | Barium, µg/L | 1070 | 451.0000 | Nonparametric | Verified |
| MW-37A | Arsenic, µg/L | 55.6 | 10.0000 | Nonparametric | Verified |
| | Barium, µg/L | 1230 | 451.0000 | Nonparametric | Verified |
| | Cobalt, µg/L | 21.2 | 11.0000 | Nonparametric | Verified |
| | Nickel, µg/L | 289 | 21.0000 | Nonparametric | Verified |
| MW-38A | Nickel, µg/L | 31.5 | 21.0000 | Nonparametric | Verified |

The detection frequency of the parameters in the up and down gradient monitoring wells is summarized in Table 3. These constituents are rarely detected in the upgradient wells, with barium being the exception. With the detection frequencies being less than 50% for all but barium, nonparametric site prediction limits were used for those trace metals. Table 4 summarizes the results of the Shapiro-Wilk test. Table 5 is a summary of the statistics and prediction limits determined for the metals. For nonparametric cases, the prediction limit given indicates the highest concentration determined historically at MW-11A, MW-13A, MW-34A, and MW-36A, once outliers have been excluded. Time series graphs of each of the parameters at each well with the corresponding prediction limits are attached.

A statistical power curve indicates the expected false assessments for the site as a whole. The false positive rate for interwell analyses is the percentage of failures when the upgradient versus downgradient true mean difference equals zero. False negative rate indicates the chance of missing contamination at a single well for a single constituent. The statistical power is a function of the number of wells included, the number of constituents compared, the detection frequencies, and the data distributions involved. For interwell analysis, the site-wide false positive rate is 1% and the test becomes sensitive to 3 standard deviation unit increases over background.

The past and current verified metals exceedances were evaluated against the ground water protection standards (GWPS) using confidence limits calculated in accordance with the Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities, USEPA, March 2009 (Attachment C). The analysis was conducted to evaluate whether verified concentrations are significantly above the water quality standard. The 95% lower confidence limit (LCL) for the mean of the historical data was used to evaluate whether the regulated unit is in compliance with the ground-water protection standards under 40 CFR 264 (e.g. whether the verified constituent is detected at a significant level above the GWPS). An exceedance is verified if the LCL is above the Regulatory GWPS.

The 95% LCL for cobalt at MW-23A (2.437 µg/L) exceeds the GWPS of 2.1 µg/L. The 95% LCL for arsenic at MW-37A (45.455 µg/L) exceeds the USEPA MCL of 10 µg/L. The 95% LCL for cobalt at MW-37A (18.772 µg/L) exceeds the GWPS of 2.1 µg/L. The 95% LCL for nickel at MW-37A (194.191 µg/L)

exceeds the USEPA MCL of 100 µg/L. The remainder of the calculated 95% LCLs are below the respective 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 landfill 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 Appendix I trace metals data from wells MW-11A, MW-12A, MW-13A, MW-19A, MW-21A, MW-23A, MW-34A, MW-37A, MW-38A, MW-39A, and MW-40A were evaluated using the combined Shewhart-CUSUM control chart method. The background at MW-11A, MW-12A, MW-13A, MW-19A, MW-21A, MW-34A, MW-38A, MW-39A, and MW-40A includes the data obtained from April 2008 through June 2020. The background at MW-23A and MW-37A includes the data obtained from April 2008 through 2015. Nonparametric prediction limits are used for parameters detected at a frequency less than 25%. Nonparametric prediction limits are the largest value detected during background at that well for that parameter.

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 parameters evaluated, the control limit exceedances are summarized in the table below.

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

| Well | Trace Metal | Result | CUSUM Value | Control Limit | Control Limit Type | Verified or Awaiting Verification |
|---|---|---|---|---|---|---|
| Holding Pond | Arsenic, µg/L | 10.9 | -- | 10.0000 | Nonparametric | Awaiting Verification |
| | Nickel, µg/L | 14.2 | -- | 13.7000 | Nonparametric | Verified |
| MW-12A | Barium, µg/L | 283 | 416.3889 | 382.0304 | Normal | Verified |
| | Nickel, µg/L | 15.4 | -- | 11.0000 | Nonparametric | Verified |
| MW-13A | Barium, µg/L | 413 | 735.6574 | 594.7669 | Normal | Verified |
| MW-19A | Nickel, µg/L | 33.5 | 45.5708 | 34.8948 | Normal | Verified |
| MW-23A | Arsenic, µg/L | 12.2 | -- | 10.0000 | Nonparametric | Verified |
| | Barium, µg/L | 1070 | 1236.3572 | 417.0333 | Normal | Verified |
| MW-37A | Arsenic, µg/L | 55.6 | -- | 12.0000 | Nonparametric | Verified |
| | Barium, µg/L | 1230 | 1677.5559 | 848.7031 | Normal | Verified |
| | Cobalt, µg/L | 21.2 | 29.8431 | 20.1553 | Normal | Verified |
| | Nickel, µg/L | 289 | 370.4670 | 153.4834 | Normal | Verified |

Increasing trends were detected in the background for barium at MW-12A, barium at MW-13A, barium at MW-21A, barium at MW-23A, barium at MW-37A, and nickel at MW-37A.

A control chart factor was selected to provide a balance of the site-wide false positive and false negative rates. A statistical power curve indicates the expected false assessments for the site as a whole. For intrawell analysis, the site-wide false positive rate is 17% and the test becomes sensitive to 3 standard deviation units over background.

**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 Dickinson County Landfill during the second semi-annual monitoring event in 2025 are summarized in the table 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 | Groundwater Standard, µg/L |
|---|---|---|---|---|---|
| MW-12A | 1,1-Dichloroethane | 21.4 | 1 | Verified | 140[b] |
| | 1,2-Dichloropropane | 1.41 | 1 | Verified | 5[a] |
| | Benzene | 1.28 | 1 | Verified | 5[a] |
| | Chloroethane | 9.75 | 1 | Verified | 2800[b] |
| | *cis*-1,2-Dichloroethene | 26.5 | 1 | Verified | 70[a] |
| | *trans*-1,2-Dichloroethene | 3.18 | 1 | Verified | 100[a] |
| | Vinyl chloride | 20.4 | 1 | Verified | 2[a] |
| MW-23A | Acetone | 40.8 | 25 | Awaiting Verification | 6300[b] |
| | Trichloroethene | 2.69 | 1 | Verified | 5[a] |
| MW-37A | Chloroethane | 2.84 | 2.5 | Verified | 2800[b] |

a - USEPA MCL
b – Iowa Statewide Standard

Many of the VOCs have been historically detected and may be attributed to landfill gas migration. Historical VOC detections are summarized in Attachment E.

The verified VOC detections were evaluated against the ground water protection standards (GWPS) using confidence limits calculated in accordance with the Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities, USEPA, March 2009. The analysis was conducted to evaluate whether verified concentrations are significantly above the water quality standard. The 95% lower confidence limit (LCL) for the mean of the historical data was used to evaluate whether the regulated unit is in compliance with the ground-water protection standards under 40 CFR 264 (e.g. whether the verified constituent is detected at a significant level above the GWPS). An exceedance is verified if the LCL is above the Regulatory GWPS.

The 95% LCL for vinyl chloride at MW-12A (10.207 µg/L) exceeds the USEPA MCL of 2 µg/L. The remainder of the 95% LCLs are below the respective standards.

**Attachment A**

Ground Water Data obtained during the Second Semi-Annual Monitoring Event in 2025

## Table 1

## Analytical Data Summary for 10/14/2025

| Constituents | Units | GW HOLDING POND | Holding Pond | MW-11A | MW-12A | MW-13A | MW-19A | MW-21A | MW-23A | MW-37A | MW-38A | MW-39A |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ug/L | | <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 |
| 1,1,2,2-Tetrachloroethane | ug/L | | <.3 | <.3 | <.3 | <.3 | <.3 | <.3 | <.3 | <.3 | <.3 | <.3 |
| 1,1,2-Trichloroethane | ug/L | | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| 1,1-Dichloroethane | ug/L | | <1.0 | <1.0 | 21.4 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| 1,1-Dichloroethene | ug/L | | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| 1,2,3-Trichloropropane | ug/L | | <.0058 | <.0058 | <.0058 | <.0058 | <.0058 | <.0058 | <.0058 | <.0058 | <.0058 | <.0058 |
| 1,2-dibromo-3-chloropropane (dbcp) | ug/L | | <.2 | <.2 | <.2 | <.2 | <.2 | <.2 | <.2 | <.2 | <.2 | <.2 |
| 1,2-Dibromoethane (EDB) | ug/L | | <.05 | <.05 | <.05 | <.05 | <.05 | <.05 | <.05 | <.05 | <.05 | <.05 |
| 1,2-Dichlorobenzene | ug/L | | <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 |
| 1,2-Dichloropropane | ug/L | | <1.00 | <1.00 | 1.41 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 |
| 1,4-Dichlorobenzene | ug/L | | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| 2-Hexanone | ug/L | | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Acetone | ug/L | | <25.0 | <25.0 | <25.0 | <25.0 | <25.0 | <25.0 | 40.8 | <25.0 | <25.0 | <25.0 |
| Acrylonitrile | ug/L | | <.32 | <.32 | <.32 | <.32 | <.32 | <.32 | <.32 | <.32 | <.32 | <.32 |
| Alkalinity, bicarbonate (as caco3) | mg/L | 422 | | | | | | | | | | |
| Alkalinity, Total (As CaCO3) | mg/L | 422 | | | | | | | | | | |
| Ammonia (As N) | mg/L | 2.51 | | | | | | | | | | |
| Antimony, Total | ug/L | | <6 | <6 | <6 | <6 | <6 | <6 | <6 | <6 | <6 | <6 |
| Arsenic, Total | ug/L | 13.1 | 10.9 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | 12.2 | 55.6 | <10.0 | <10.0 |
| Barium, Total | ug/L | 174.0 | 178.0 | 227.0 | 283.0 | 413.0 | 186.0 | 291.0 | 1070.0 | 1230.0 | 204.0 | 267.0 |
| Benzene | ug/L | | <1.00 | <1.00 | 1.28 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 |
| Beryllium, Total | ug/L | | <4 | <4 | <4 | <4 | <4 | <4 | <4 | <4 | <4 | <4 |
| Bromochloromethane | ug/L | | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Bromoform | ug/L | | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Bromomethane | ug/L | | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 |
| Cadmium, Total | ug/L | <2 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Calcium, Total | mg/L | 106 | | | | | | | | | | |
| Carbon Disulfide | ug/L | | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Carbon Tetrachloride | ug/L | | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Chemical Oxygen Demand (COD) | mg/L | 47.3 | | | | | | | | | | |
| Chloride | mg/L | 43.5 | | | | | | | | | | |
| Chlorobenzene | ug/L | | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Chloroethane | ug/L | | <2.50 | <2.50 | 9.75 | <2.50 | <2.50 | <2.50 | <2.50 | 2.84 | <2.50 | <2.50 |
| Chloroform | ug/L | | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Chloromethane | ug/L | | <1.25 | <1.25 | <1.25 | <1.25 | <1.25 | <1.25 | <1.25 | <1.25 | <1.25 | <1.25 |
| Chromium, Total | ug/L | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 |
| cis-1,2-Dichloroethene | ug/L | | <1.0 | <1.0 | 26.5 | <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 |
| Cobalt, Total | ug/L | | <2.00 | <2.00 | 2.55 | <2.00 | <2.00 | <2.00 | 3.18 | 21.20 | <2.00 | <2.00 |
| Copper, Total | ug/L | | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 |
| Cyanide | mg/L | <.005 | | | | | | | | | | |
| Dibromochloromethane | ug/L | | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Dibromomethane | ug/L | | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Dichlorobromomethane | ug/L | | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Dissolved Oxygen (on-site) | mg/L | | 7.11 | 4.70 | .70 | .50 | 1.10 | 1.40 | .40 | .50 | .50 | 10.80 |
| eH/ORP ( On Site ) | mV | | 126.1 | 172.9 | -45.0 | 14.4 | 105.7 | 53.6 | -104.0 | -31.0 | 40.5 | 124.4 |
| Ethylbenzene | ug/L | | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Iodomethane | ug/L | | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 |
| Iron, Total | ug/L | 1590 | | | | | | | | | | |
| Lead, Total | ug/L | <5 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 |
| Magnesium, Dissolved | mg/L | 43.1 | | | | | | | | | | |
| Magnesium, Total | mg/L | 43.5 | | | | | | | | | | |

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

## Table 1

## Analytical Data Summary for 10/14/2025

| Constituents | MW-40A | MW-41A |
|---|---|---|
| 1,1,1,2-Tetrachloroethane | <1 | <1 |
| 1,1,1-Trichloroethane | <1 | <1 |
| 1,1,2,2-Tetrachloroethane | <.3 | <.3 |
| 1,1,2-Trichloroethane | <1 | <1 |
| 1,1-Dichloroethane | <1.0 | <1.0 |
| 1,1-Dichloroethene | <1 | <1 |
| 1,2,3-Trichloropropane | <.0058 | <.0058 |
| 1,2-dibromo-3-chloropropane (dbcp) | <.2 | <.2 |
| 1,2-Dibromoethane (EDB) | <.05 | <.05 |
| 1,2-Dichlorobenzene | <1 | <1 |
| 1,2-Dichloroethane | <1 | <1 |
| 1,2-Dichloropropane | <1.00 | <1.00 |
| 1,4-Dichlorobenzene | <1 | <1 |
| 2-Hexanone | <5 | <5 |
| Acetone | <25.0 | <25.0 |
| Acrylonitrile | <.32 | <.32 |
| Alkalinity, bicarbonate (as caco3) | | |
| Alkalinity, Total (As CaCO3) | | |
| Ammonia (As N) | | |
| Antimony, Total | <6 | <6 |
| Arsenic, Total | <10.0 | <10.0 |
| Barium, Total | 274.0 | 91.2 |
| Benzene | <1.00 | <1.00 |
| Beryllium, Total | <4 | <4 |
| Bromochloromethane | <1 | <1 |
| Bromoform | <1 | <1 |
| Bromomethane | <2.5 | <2.5 |
| Cadmium, Total | <5 | <5 |
| Calcium, Total | | |
| Carbon Disulfide | <1 | <1 |
| Carbon Tetrachloride | <1 | <1 |
| Chemical Oxygen Demand (COD) | | |
| Chloride | | |
| Chlorobenzene | <1 | <1 |
| Chloroethane | <2.50 | <2.50 |
| Chloroform | <1 | <1 |
| Chloromethane | <1.25 | <1.25 |
| Chromium, Total | <10 | <10 |
| cis-1,2-Dichloroethene | <1.0 | <1.0 |
| cis-1,3-Dichloropropene | <1 | <1 |
| Cobalt, Total | <2.00 | <2.00 |
| Copper, Total | <10 | <10 |
| Cyanide | | |
| Dibromochloromethane | <1 | <1 |
| Dibromomethane | <1 | <1 |
| Dichlorobromomethane | <1 | <1 |
| Dissolved Oxygen (on-site) | 8.20 | 3.90 |
| eH/ORP ( On Site ) | 119.3 | 77.0 |
| Ethylbenzene | <1 | <1 |
| Iodomethane | <10 | <10 |
| Iron, Total | | |
| Lead, Total | <10 | <10 |
| Magnesium, Dissolved | | |
| Magnesium, Total | | |

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

## Table 1

## Analytical Data Summary for 10/14/2025

| Constituents | Units | GW HOLDING POND | Holding Pond | MW-11A | MW-12A | MW-13A | MW-19A | MW-21A | MW-23A | MW-37A | MW-38A | MW-39A |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mercury, total | ug/L | <.2 | | | | | | | | | | |
| Methyl Ethyl Ketone | ug/L | | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 |
| Methyl Isobutyl Ketone | ug/L | | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Methylene chloride | ug/L | | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 |
| Nickel, Total | ug/L | | 14.2 | <10.0 | 15.4 | <10.0 | 33.5 | <10.0 | <10.0 | 289.0 | 31.5 | <10.0 |
| Nitrogen, nitrate-nitrite | mg/L | <.1 | | | | | | | | | | |
| Oil and grease | mg/L | <5 | | | | | | | | | | |
| pH | SU | 7.87 | | | | | | | | | | |
| pH (Field) | s.u. | | 7.27 | 7.02 | 6.43 | 6.60 | 6.83 | 6.96 | 6.61 | 6.46 | 6.77 | 7.10 |
| Potassium, Total | mg/L | 14.7 | | | | | | | | | | |
| Selenium, Total | ug/L | | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 |
| Silver, Total | ug/L | | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 |
| Sodium, Total | mg/L | 38.2 | | | | | | | | | | |
| Specific conductance, field | umhos/cm | | 1006 | 971 | 1678 | 947 | 1183 | 923 | 991 | 3413 | 1139 | 824 |
| Styrene | ug/L | | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Sulfate | mg/L | 50.7 | | | | | | | | | | |
| Temperature (field test) | øC | | 13.5 | 9.7 | 10.9 | 11.2 | 13.2 | 12.4 | 15.3 | 10.7 | 11.5 | 10.9 |
| Tetrachloroethene | ug/L | | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Thallium, Total | ug/L | | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 |
| Toluene | ug/L | | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Total dissolved solids (tds) | mg/L | 604 | | | | | | | | | | |
| Total Organic Carbon (TOC) | mg/L | 11.8 | | | | | | | | | | |
| Total suspended solids (tss) | mg/L | | 11.7 | 6.0 | 7.8 | 5.8 | 5.1 | <2.5 | 12.2 | 77.0 | <2.5 | 4.8 |
| Total Xylenes | ug/L | | <3 | <3 | <3 | <3 | <3 | <3 | <3 | <3 | <3 | <3 |
| trans-1,2-Dichloroethene | ug/L | | <1.00 | <1.00 | 3.18 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 |
| trans-1,3-Dichloropropene | ug/L | | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| trans-1,4-Dichloro-2-butene | ug/L | | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Trichloroethene | ug/L | | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | <1.00 | 2.69 | <1.00 | <1.00 | <1.00 |
| Trichlorofluoromethane | ug/L | | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 |
| Turbidity (field) | N.T.U. | 8.9 | 8.9 | .0 | .0 | .0 | 46.3 | .0 | .0 | 3.2 | .0 | 4.9 |
| Vanadium, Total | ug/L | | <20 | <20 | <20 | <20 | <20 | <20 | <20 | <20 | <20 | <20 |
| Vinyl acetate | ug/L | | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Vinyl chloride | ug/L | | <1.0 | <1.0 | 20.4 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| Zinc, Total | ug/L | | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 |

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

## Table 1

## Analytical Data Summary for 10/14/2025

| Constituents | MW-40A | MW-41A |
|---|---|---|
| Mercury, total | | |
| Methyl Ethyl Ketone | <10 | <10 |
| Methyl Isobutyl Ketone | <5 | <5 |
| Methylene chloride | <2.5 | <2.5 |
| Nickel, Total | <10.0 | <10.0 |
| Nitrogen, nitrate-nitrite | | |
| Oil and grease | | |
| pH | | |
| pH (Field) | 7.15 | 7.23 |
| Potassium, Total | | |
| Selenium, Total | <10 | <10 |
| Silver, Total | <10 | <10 |
| Sodium, Total | | |
| Specific conductance, field | 684 | 1065 |
| Styrene | <1 | <1 |
| Sulfate | | |
| Temperature (field test) | 12.1 | 10.5 |
| Tetrachloroethene | <1 | <1 |
| Thallium, Total | <2 | <2 |
| Toluene | <1 | <1 |
| Total dissolved solids (tds) | | |
| Total Organic Carbon (TOC) | | |
| Total suspended solids (tss) | 19.2 | 128.0 |
| Total Xylenes | <3 | <3 |
| trans-1,2-Dichloroethene | <1.00 | <1.00 |
| trans-1,3-Dichloropropene | <1 | <1 |
| trans-1,4-Dichloro-2-butene | <1 | <1 |
| Trichloroethene | <1.00 | <1.00 |
| Trichlorofluoromethane | <2.5 | <2.5 |
| Turbidity (field) | 16.5 | 77.7 |
| Vanadium, Total | <20 | <20 |
| Vinyl acetate | <5 | <5 |
| Vinyl chloride | <1.0 | <1.0 |
| Zinc, Total | <50 | <50 |

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

## Table 2

### Analytical Data Summary for 11/21/2025

| Constituents | Units | Stormwater |
|---|---|---|
| Alkalinity, bicarbonate (as caco3) | mg/L | 174 |
| Alkalinity, Total (As CaCO3) | mg/L | 177 |
| Ammonia (As N) | mg/L | <.1 |
| Arsenic, Total | ug/L | <10 |
| Barium, Total | ug/L | 162 |
| Cadmium, Total | ug/L | <2 |
| Calcium, Total | mg/L | 41.2 |
| Chemical Oxygen Demand (COD) | mg/L | 21.8 |
| Chloride | mg/L | 38.4 |
| Chromium, Total | ug/L | <10 |
| Cyanide | mg/L | <.005 |
| Iron, Total | ug/L | 294 |
| Lead, Total | ug/L | 6.15 |
| Magnesium, Dissolved | mg/L | 25.7 |
| Magnesium, Total | mg/L | 26.5 |
| Mercury, total | ug/L | <.2 |
| Nitrogen, nitrate-nitrite | mg/L | <.1 |
| Oil and grease | mg/L | <5 |
| pH | SU | 8.5 |
| Potassium, Total | mg/L | 8.75 |
| Selenium, Total | ug/L | <10 |
| Silver, Total | ug/L | <10 |
| Sodium, Total | mg/L | 30.6 |
| Sulfate | mg/L | 55.9 |
| Total dissolved solids (tds) | mg/L | 323 |
| Total Organic Carbon (TOC) | mg/L | 9.05 |

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

## Table 3

### Analytical Data Summary for 11/24/2025

| Constituents | Units | MW-34A | MW-41A |
|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ug/L | <1 | <1 |
| 1,1,1-Trichloroethane | ug/L | <1 | <1 |
| 1,1,2,2-Tetrachloroethane | ug/L | <.3 | <.3 |
| 1,1,2-Trichloroethane | ug/L | <1 | <1 |
| 1,1-Dichloroethane | ug/L | <1 | <1 |
| 1,1-Dichloroethene | ug/L | <1 | <1 |
| 1,2,3-Trichloropropane | ug/L | <.0058 | <.0058 |
| 1,2-dibromo-3-chloropropane (dbcp) | ug/L | <.2 | <.2 |
| 1,2-Dibromoethane (EDB) | ug/L | <.05 | <.05 |
| 1,2-Dichlorobenzene | ug/L | <1 | <1 |
| 1,2-Dichloroethane | ug/L | <1 | <1 |
| 1,2-Dichloropropane | ug/L | <1 | <1 |
| 1,4-Dichlorobenzene | ug/L | <1 | <1 |
| 2-Hexanone | ug/L | <5 | <5 |
| Acetone | ug/L | <25 | <25 |
| Acrylonitrile | ug/L | <.32 | <.32 |
| Antimony, Total | ug/L | <6 | <6 |
| Arsenic, Total | ug/L | <10 | <10 |
| Barium, Total | ug/L | 39.3 | 101.0 |
| Benzene | ug/L | <1 | <1 |
| Beryllium, Total | ug/L | <4 | <4 |
| Bromochloromethane | ug/L | <1 | <1 |
| Bromoform | ug/L | <1 | <1 |
| Bromomethane | ug/L | <2.5 | <2.5 |
| Cadmium, Total | ug/L | <5 | <5 |
| Carbon Disulfide | ug/L | <1 | <1 |
| Carbon Tetrachloride | ug/L | <1 | <1 |
| Chlorobenzene | ug/L | <1 | <1 |
| Chloroethane | ug/L | <2.5 | <2.5 |
| Chloroform | ug/L | <1 | <1 |
| Chloromethane | ug/L | <1.25 | <1.25 |
| Chromium, Total | ug/L | <10 | <10 |
| cis-1,2-Dichloroethene | ug/L | <1 | <1 |
| cis-1,3-Dichloropropene | ug/L | <1 | <1 |
| Cobalt, Total | ug/L | <2 | <2 |
| Copper, Total | ug/L | <10 | <10 |
| Dibromochloromethane | ug/L | <1 | <1 |
| Dibromomethane | ug/L | <1 | <1 |
| Dichlorobromomethane | ug/L | <1 | <1 |
| Dissolved Oxygen (on-site) | mg/L | 2.8 | 1.5 |
| eH/ORP ( On Site ) | mV | -160.0 | 95.3 |
| Ethylbenzene | ug/L | <1 | <1 |
| Iodomethane | ug/L | <10 | <10 |
| Lead, Total | ug/L | <10 | <10 |
| Methyl Ethyl Ketone | ug/L | <10 | <10 |
| Methyl Isobutyl Ketone | ug/L | <5 | <5 |
| Methylene chloride | ug/L | <2.5 | <2.5 |
| Nickel, Total | ug/L | <10 | <10 |
| pH (Field) | s.u. | 6.66 | 6.83 |
| Selenium, Total | ug/L | <10 | <10 |
| Silver, Total | ug/L | <10 | <10 |
| Specific conductance, field | umhos/cm | 1497 | 1360 |
| Styrene | ug/L | <1 | <1 |
| Temperature (field test) | øC | 13.0 | 11.4 |

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

## Table 3

### Analytical Data Summary for 11/24/2025

| Constituents | Units | MW-34A | MW-41A |
|---|---|---|---|
| Tetrachloroethene | ug/L | <1 | <1 |
| Thallium, Total | ug/L | <2 | <2 |
| Toluene | ug/L | <1 | <1 |
| Total suspended solids (tss) | mg/L | 7.9 | 53.2 |
| Total Xylenes | ug/L | <3 | <3 |
| trans-1,2-Dichloroethene | ug/L | <1 | <1 |
| trans-1,3-Dichloropropene | ug/L | <1 | <1 |
| trans-1,4-Dichloro-2-butene | ug/L | <1 | <1 |
| Trichloroethene | ug/L | <1 | <1 |
| Trichlorofluoromethane | ug/L | <2.5 | <2.5 |
| Turbidity (field) | N.T.U. | 2.5 | 12.6 |
| Vanadium, Total | ug/L | <20 | <20 |
| Vinyl acetate | ug/L | <5 | <5 |
| Vinyl chloride | ug/L | <1 | <1 |
| Zinc, Total | ug/L | <50 | <50 |

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

**Attachment B**

Summary Tables and Graphs for the Interwell Comparisons

## Table 1

### Upgradient Data

| Constituent | Units | Well | Date | | Result | Adjusted | |
|---|---|---|---|---|---|---|---|
| Antimony, Total | ug/L | MW-11A | 04/13/2010 | ND | 6.8000 | 6.0000 | ** |
| Antimony, Total | ug/L | MW-11A | 10/18/2010 | ND | 6.8000 | 6.0000 | ** |
| Antimony, Total | ug/L | MW-11A | 05/10/2011 | ND | 6.0000 | | |
| Antimony, Total | ug/L | MW-11A | 10/19/2011 | ND | 6.0000 | | |
| Antimony, Total | ug/L | MW-11A | 04/24/2012 | ND | 6.0000 | | |
| Antimony, Total | ug/L | MW-11A | 10/25/2012 | ND | 6.0000 | | |
| Antimony, Total | ug/L | MW-11A | 11/11/2013 | ND | 6.0000 | | |
| Antimony, Total | ug/L | MW-11A | 11/12/2014 | ND | 6.0000 | | |
| Antimony, Total | ug/L | MW-11A | 11/18/2015 | ND | 6.0000 | | |
| Antimony, Total | ug/L | MW-11A | 06/16/2016 | ND | 6.0000 | | |
| Antimony, Total | ug/L | MW-11A | 11/16/2016 | ND | 6.0000 | | |
| Antimony, Total | ug/L | MW-11A | 05/30/2017 | ND | 6.0000 | | |
| Antimony, Total | ug/L | MW-11A | 11/21/2017 | ND | 6.0000 | | |
| Antimony, Total | ug/L | MW-11A | 05/31/2018 | ND | 6.0000 | | |
| Antimony, Total | ug/L | MW-11A | 10/31/2018 | ND | 6.0000 | | |
| Antimony, Total | ug/L | MW-11A | 05/28/2019 | ND | 6.0000 | | |
| Antimony, Total | ug/L | MW-11A | 10/15/2019 | ND | 6.0000 | | |
| Antimony, Total | ug/L | MW-11A | 06/03/2020 | ND | 6.0000 | | |
| Antimony, Total | ug/L | MW-11A | 10/07/2020 | ND | 6.0000 | | |
| Antimony, Total | ug/L | MW-11A | 05/03/2021 | ND | 6.0000 | | |
| Antimony, Total | ug/L | MW-11A | 11/09/2021 | ND | 6.0000 | | |
| Antimony, Total | ug/L | MW-11A | 05/17/2022 | ND | 6.0000 | | |
| Antimony, Total | ug/L | MW-11A | 10/17/2022 | ND | 6.0000 | | |
| Antimony, Total | ug/L | MW-11A | 05/22/2023 | ND | 6.0000 | | |
| Antimony, Total | ug/L | MW-11A | 10/05/2023 | ND | 6.0000 | | |
| Antimony, Total | ug/L | MW-11A | 05/20/2024 | ND | 6.0000 | | |
| Antimony, Total | ug/L | MW-11A | 10/02/2024 | ND | 6.0000 | | |
| Antimony, Total | ug/L | MW-11A | 05/12/2025 | ND | 6.0000 | | |
| Antimony, Total | ug/L | MW-11A | 10/14/2025 | ND | 6.0000 | | |
| Arsenic, Total | ug/L | MW-11A | 04/13/2010 | ND | 10.0000 | | |
| Arsenic, Total | ug/L | MW-11A | 10/18/2010 | ND | 10.0000 | | |
| Arsenic, Total | ug/L | MW-11A | 05/10/2011 | ND | 10.0000 | | |
| Arsenic, Total | ug/L | MW-11A | 10/19/2011 | ND | 10.0000 | | |
| Arsenic, Total | ug/L | MW-11A | 04/24/2012 | ND | 10.0000 | | |
| Arsenic, Total | ug/L | MW-11A | 10/25/2012 | ND | 10.0000 | | |
| Arsenic, Total | ug/L | MW-11A | 11/11/2013 | ND | 10.0000 | | |
| Arsenic, Total | ug/L | MW-11A | 11/12/2014 | ND | 10.0000 | | |
| Arsenic, Total | ug/L | MW-11A | 11/18/2015 | ND | 10.0000 | | |
| Arsenic, Total | ug/L | MW-11A | 06/16/2016 | ND | 10.0000 | | |
| Arsenic, Total | ug/L | MW-11A | 11/16/2016 | ND | 10.0000 | | |
| Arsenic, Total | ug/L | MW-11A | 05/30/2017 | ND | 10.0000 | | |
| Arsenic, Total | ug/L | MW-11A | 11/21/2017 | ND | 10.0000 | | |
| Arsenic, Total | ug/L | MW-11A | 05/31/2018 | ND | 10.0000 | | |
| Arsenic, Total | ug/L | MW-11A | 10/31/2018 | ND | 10.0000 | | |
| Arsenic, Total | ug/L | MW-11A | 05/28/2019 | ND | 10.0000 | | |
| Arsenic, Total | ug/L | MW-11A | 10/15/2019 | ND | 10.0000 | | |
| Arsenic, Total | ug/L | MW-11A | 06/03/2020 | ND | 10.0000 | | |
| Arsenic, Total | ug/L | MW-11A | 10/07/2020 | ND | 10.0000 | | |
| Arsenic, Total | ug/L | MW-11A | 05/03/2021 | ND | 10.0000 | | |
| Arsenic, Total | ug/L | MW-11A | 11/09/2021 | ND | 10.0000 | | |
| Arsenic, Total | ug/L | MW-11A | 05/17/2022 | ND | 10.0000 | | |
| Arsenic, Total | ug/L | MW-11A | 10/17/2022 | ND | 10.0000 | | |
| Arsenic, Total | ug/L | MW-11A | 05/22/2023 | ND | 10.0000 | | |
| Arsenic, Total | ug/L | MW-11A | 10/05/2023 | ND | 10.0000 | | |
| Arsenic, Total | ug/L | MW-11A | 05/20/2024 | ND | 10.0000 | | |
| Arsenic, Total | ug/L | MW-11A | 10/02/2024 | ND | 10.0000 | | |
| Arsenic, Total | ug/L | MW-11A | 05/12/2025 | ND | 10.0000 | | |
| Arsenic, Total | ug/L | MW-11A | 10/14/2025 | ND | 10.0000 | | |
| Barium, Total | ug/L | MW-11A | 04/13/2010 | | 178.0000 | | |
| Barium, Total | ug/L | MW-11A | 10/18/2010 | | 209.0000 | | |
| Barium, Total | ug/L | MW-11A | 05/10/2011 | | 200.0000 | | |
| Barium, Total | ug/L | MW-11A | 10/19/2011 | | 220.0000 | | |
| Barium, Total | ug/L | MW-11A | 04/24/2012 | | 200.0000 | | |
| Barium, Total | ug/L | MW-11A | 10/25/2012 | | 370.0000 | | |
| Barium, Total | ug/L | MW-11A | 11/11/2013 | | 200.0000 | | |
| Barium, Total | ug/L | MW-11A | 11/12/2014 | | 220.0000 | | |
| Barium, Total | ug/L | MW-11A | 11/18/2015 | | 280.0000 | | |
| Barium, Total | ug/L | MW-11A | 06/16/2016 | | 170.0000 | | |
| Barium, Total | ug/L | MW-11A | 11/16/2016 | | 150.0000 | | |
| Barium, Total | ug/L | MW-11A | 05/30/2017 | | 180.0000 | | |
| Barium, Total | ug/L | MW-11A | 11/21/2017 | | 220.0000 | | |
| Barium, Total | ug/L | MW-11A | 05/31/2018 | | 200.0000 | | |
| Barium, Total | ug/L | MW-11A | 10/31/2018 | | 210.0000 | | |
| Barium, Total | ug/L | MW-11A | 05/28/2019 | | 240.0000 | | |

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

## Table 1

### Upgradient Data

| Constituent | Units | Well | Date | | Result | Adjusted | |
|---|---|---|---|---|---|---|---|
| Barium, Total | ug/L | MW-11A | 10/15/2019 | | 270.0000 | | |
| Barium, Total | ug/L | MW-11A | 06/03/2020 | | 261.0000 | | |
| Barium, Total | ug/L | MW-11A | 10/07/2020 | | 234.0000 | | |
| Barium, Total | ug/L | MW-11A | 05/03/2021 | | 212.0000 | | |
| Barium, Total | ug/L | MW-11A | 11/09/2021 | | 259.0000 | | |
| Barium, Total | ug/L | MW-11A | 05/17/2022 | | 207.0000 | | |
| Barium, Total | ug/L | MW-11A | 10/17/2022 | | 236.0000 | | |
| Barium, Total | ug/L | MW-11A | 05/22/2023 | | 239.0000 | | |
| Barium, Total | ug/L | MW-11A | 10/05/2023 | | 245.0000 | | |
| Barium, Total | ug/L | MW-11A | 05/20/2024 | | 220.0000 | | |
| Barium, Total | ug/L | MW-11A | 10/02/2024 | | 237.0000 | | |
| Barium, Total | ug/L | MW-11A | 05/12/2025 | | 235.0000 | | |
| Barium, Total | ug/L | MW-11A | 10/14/2025 | | 227.0000 | | |
| Beryllium, Total | ug/L | MW-11A | 04/13/2010 | ND | 4.0000 | | |
| Beryllium, Total | ug/L | MW-11A | 10/18/2010 | ND | 4.0000 | | |
| Beryllium, Total | ug/L | MW-11A | 05/10/2011 | ND | 4.0000 | | |
| Beryllium, Total | ug/L | MW-11A | 10/19/2011 | ND | 4.0000 | | |
| Beryllium, Total | ug/L | MW-11A | 04/24/2012 | ND | 4.0000 | | |
| Beryllium, Total | ug/L | MW-11A | 10/25/2012 | ND | 4.0000 | | |
| Beryllium, Total | ug/L | MW-11A | 11/11/2013 | ND | 4.0000 | | |
| Beryllium, Total | ug/L | MW-11A | 11/12/2014 | ND | 4.0000 | | |
| Beryllium, Total | ug/L | MW-11A | 11/18/2015 | ND | 4.0000 | | |
| Beryllium, Total | ug/L | MW-11A | 06/16/2016 | ND | 4.0000 | | |
| Beryllium, Total | ug/L | MW-11A | 11/16/2016 | ND | 4.0000 | | |
| Beryllium, Total | ug/L | MW-11A | 05/30/2017 | ND | 4.0000 | | |
| Beryllium, Total | ug/L | MW-11A | 11/21/2017 | ND | 4.0000 | | |
| Beryllium, Total | ug/L | MW-11A | 05/31/2018 | ND | 4.0000 | | |
| Beryllium, Total | ug/L | MW-11A | 10/31/2018 | ND | 4.0000 | | |
| Beryllium, Total | ug/L | MW-11A | 05/28/2019 | ND | 4.0000 | | |
| Beryllium, Total | ug/L | MW-11A | 10/15/2019 | ND | 4.0000 | | |
| Beryllium, Total | ug/L | MW-11A | 06/03/2020 | ND | 4.0000 | | |
| Beryllium, Total | ug/L | MW-11A | 10/07/2020 | ND | 4.0000 | | |
| Beryllium, Total | ug/L | MW-11A | 05/03/2021 | ND | 4.0000 | | |
| Beryllium, Total | ug/L | MW-11A | 11/09/2021 | ND | 4.0000 | | |
| Beryllium, Total | ug/L | MW-11A | 05/17/2022 | ND | 4.0000 | | |
| Beryllium, Total | ug/L | MW-11A | 10/17/2022 | ND | 4.0000 | | |
| Beryllium, Total | ug/L | MW-11A | 05/22/2023 | ND | 4.0000 | | |
| Beryllium, Total | ug/L | MW-11A | 10/05/2023 | ND | 4.0000 | | |
| Beryllium, Total | ug/L | MW-11A | 05/20/2024 | ND | 4.0000 | | |
| Beryllium, Total | ug/L | MW-11A | 10/02/2024 | ND | 4.0000 | | |
| Beryllium, Total | ug/L | MW-11A | 05/12/2025 | ND | 4.0000 | | |
| Beryllium, Total | ug/L | MW-11A | 10/14/2025 | ND | 4.0000 | | |
| Cadmium, Total | ug/L | MW-11A | 04/13/2010 | ND | 5.0000 | | |
| Cadmium, Total | ug/L | MW-11A | 10/18/2010 | ND | 5.0000 | | |
| Cadmium, Total | ug/L | MW-11A | 05/10/2011 | ND | 5.0000 | | |
| Cadmium, Total | ug/L | MW-11A | 10/19/2011 | ND | 5.0000 | | |
| Cadmium, Total | ug/L | MW-11A | 04/24/2012 | ND | 5.0000 | | |
| Cadmium, Total | ug/L | MW-11A | 10/25/2012 | ND | 5.0000 | | |
| Cadmium, Total | ug/L | MW-11A | 11/11/2013 | ND | 5.0000 | | |
| Cadmium, Total | ug/L | MW-11A | 11/12/2014 | ND | 5.0000 | | |
| Cadmium, Total | ug/L | MW-11A | 11/18/2015 | ND | 5.0000 | | |
| Cadmium, Total | ug/L | MW-11A | 06/16/2016 | ND | 5.0000 | | |
| Cadmium, Total | ug/L | MW-11A | 11/16/2016 | ND | 5.0000 | | |
| Cadmium, Total | ug/L | MW-11A | 05/30/2017 | ND | 5.0000 | | |
| Cadmium, Total | ug/L | MW-11A | 11/21/2017 | ND | 5.0000 | | |
| Cadmium, Total | ug/L | MW-11A | 05/31/2018 | ND | 5.0000 | | |
| Cadmium, Total | ug/L | MW-11A | 10/31/2018 | ND | 5.0000 | | |
| Cadmium, Total | ug/L | MW-11A | 05/28/2019 | ND | 5.0000 | | |
| Cadmium, Total | ug/L | MW-11A | 10/15/2019 | ND | 5.0000 | | |
| Cadmium, Total | ug/L | MW-11A | 06/03/2020 | ND | 5.0000 | | |
| Cadmium, Total | ug/L | MW-11A | 10/07/2020 | ND | 5.0000 | | |
| Cadmium, Total | ug/L | MW-11A | 05/03/2021 | ND | 5.0000 | | |
| Cadmium, Total | ug/L | MW-11A | 11/09/2021 | ND | 5.0000 | | |
| Cadmium, Total | ug/L | MW-11A | 05/17/2022 | ND | 5.0000 | | |
| Cadmium, Total | ug/L | MW-11A | 10/17/2022 | ND | 5.0000 | | |
| Cadmium, Total | ug/L | MW-11A | 05/22/2023 | ND | 5.0000 | | |
| Cadmium, Total | ug/L | MW-11A | 10/05/2023 | ND | 5.0000 | | |
| Cadmium, Total | ug/L | MW-11A | 05/20/2024 | ND | 5.0000 | | |
| Cadmium, Total | ug/L | MW-11A | 10/02/2024 | ND | 5.0000 | | |
| Cadmium, Total | ug/L | MW-11A | 05/12/2025 | ND | 5.0000 | | |
| Cadmium, Total | ug/L | MW-11A | 10/14/2025 | ND | 5.0000 | | |
| Chromium, Total | ug/L | MW-11A | 04/13/2010 | ND | 10.0000 | | |
| Chromium, Total | ug/L | MW-11A | 10/18/2010 | ND | 10.0000 | | |
| Chromium, Total | ug/L | MW-11A | 05/10/2011 | ND | 10.0000 | | |

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

## Table 1

### Upgradient Data

| Constituent | Units | Well | Date | | Result | Adjusted | |
|---|---|---|---|---|---|---|---|
| Chromium, Total | ug/L | MW-11A | 10/19/2011 | ND | 10.0000 | | |
| Chromium, Total | ug/L | MW-11A | 04/24/2012 | ND | 10.0000 | | |
| Chromium, Total | ug/L | MW-11A | 10/25/2012 | | 23.0000 | | * |
| Chromium, Total | ug/L | MW-11A | 11/11/2013 | ND | 10.0000 | | |
| Chromium, Total | ug/L | MW-11A | 11/12/2014 | ND | 10.0000 | | |
| Chromium, Total | ug/L | MW-11A | 11/18/2015 | | 13.0000 | | |
| Chromium, Total | ug/L | MW-11A | 06/16/2016 | ND | 10.0000 | | |
| Chromium, Total | ug/L | MW-11A | 11/16/2016 | ND | 10.0000 | | |
| Chromium, Total | ug/L | MW-11A | 05/30/2017 | ND | 10.0000 | | |
| Chromium, Total | ug/L | MW-11A | 11/21/2017 | ND | 10.0000 | | |
| Chromium, Total | ug/L | MW-11A | 05/31/2018 | ND | 10.0000 | | |
| Chromium, Total | ug/L | MW-11A | 10/31/2018 | ND | 10.0000 | | |
| Chromium, Total | ug/L | MW-11A | 05/28/2019 | ND | 10.0000 | | |
| Chromium, Total | ug/L | MW-11A | 10/15/2019 | ND | 10.0000 | | |
| Chromium, Total | ug/L | MW-11A | 06/03/2020 | ND | 10.0000 | | |
| Chromium, Total | ug/L | MW-11A | 10/07/2020 | ND | 10.0000 | | |
| Chromium, Total | ug/L | MW-11A | 05/03/2021 | ND | 10.0000 | | |
| Chromium, Total | ug/L | MW-11A | 11/09/2021 | ND | 10.0000 | | |
| Chromium, Total | ug/L | MW-11A | 05/17/2022 | ND | 10.0000 | | |
| Chromium, Total | ug/L | MW-11A | 10/17/2022 | ND | 10.0000 | | |
| Chromium, Total | ug/L | MW-11A | 05/22/2023 | ND | 10.0000 | | |
| Chromium, Total | ug/L | MW-11A | 10/05/2023 | ND | 10.0000 | | |
| Chromium, Total | ug/L | MW-11A | 05/20/2024 | ND | 10.0000 | | |
| Chromium, Total | ug/L | MW-11A | 10/02/2024 | ND | 10.0000 | | |
| Chromium, Total | ug/L | MW-11A | 05/12/2025 | ND | 10.0000 | | |
| Chromium, Total | ug/L | MW-11A | 10/14/2025 | ND | 10.0000 | | |
| Cobalt, Total | ug/L | MW-11A | 04/13/2010 | ND | 10.0000 | 2.8000 | ** |
| Cobalt, Total | ug/L | MW-11A | 10/18/2010 | ND | 10.0000 | 2.8000 | ** |
| Cobalt, Total | ug/L | MW-11A | 05/10/2011 | ND | 10.0000 | 2.8000 | ** |
| Cobalt, Total | ug/L | MW-11A | 10/19/2011 | ND | 10.0000 | 2.8000 | ** |
| Cobalt, Total | ug/L | MW-11A | 04/24/2012 | ND | 10.0000 | 2.8000 | ** |
| Cobalt, Total | ug/L | MW-11A | 10/25/2012 | | 11.0000 | | |
| Cobalt, Total | ug/L | MW-11A | 11/11/2013 | ND | 10.0000 | 2.8000 | ** |
| Cobalt, Total | ug/L | MW-11A | 11/12/2014 | ND | 10.0000 | 2.8000 | ** |
| Cobalt, Total | ug/L | MW-11A | 11/18/2015 | | 6.3000 | | |
| Cobalt, Total | ug/L | MW-11A | 06/16/2016 | ND | 2.8000 | | |
| Cobalt, Total | ug/L | MW-11A | 11/16/2016 | ND | 2.8000 | | |
| Cobalt, Total | ug/L | MW-11A | 05/30/2017 | ND | 2.8000 | | |
| Cobalt, Total | ug/L | MW-11A | 11/21/2017 | ND | 2.8000 | | |
| Cobalt, Total | ug/L | MW-11A | 05/31/2018 | ND | 2.8000 | | |
| Cobalt, Total | ug/L | MW-11A | 10/31/2018 | ND | 2.8000 | | |
| Cobalt, Total | ug/L | MW-11A | 05/28/2019 | ND | 2.1000 | 2.8000 | ** |
| Cobalt, Total | ug/L | MW-11A | 10/15/2019 | ND | 2.1000 | 2.8000 | ** |
| Cobalt, Total | ug/L | MW-11A | 06/03/2020 | ND | 2.0000 | 2.8000 | ** |
| Cobalt, Total | ug/L | MW-11A | 10/07/2020 | ND | 2.1000 | 2.8000 | ** |
| Cobalt, Total | ug/L | MW-11A | 05/03/2021 | ND | 2.0000 | 2.8000 | ** |
| Cobalt, Total | ug/L | MW-11A | 11/09/2021 | ND | 2.0000 | 2.8000 | ** |
| Cobalt, Total | ug/L | MW-11A | 05/17/2022 | ND | 2.0000 | 2.8000 | ** |
| Cobalt, Total | ug/L | MW-11A | 10/17/2022 | ND | 2.0000 | 2.8000 | ** |
| Cobalt, Total | ug/L | MW-11A | 05/22/2023 | ND | 2.0000 | 2.8000 | ** |
| Cobalt, Total | ug/L | MW-11A | 10/05/2023 | ND | 2.0000 | 2.8000 | ** |
| Cobalt, Total | ug/L | MW-11A | 05/20/2024 | ND | 2.0000 | 2.8000 | ** |
| Cobalt, Total | ug/L | MW-11A | 10/02/2024 | ND | 2.0000 | 2.8000 | ** |
| Cobalt, Total | ug/L | MW-11A | 05/12/2025 | ND | 2.0000 | 2.8000 | ** |
| Cobalt, Total | ug/L | MW-11A | 10/14/2025 | ND | 2.0000 | 2.8000 | ** |
| Copper, Total | ug/L | MW-11A | 04/13/2010 | ND | 10.0000 | | |
| Copper, Total | ug/L | MW-11A | 10/18/2010 | ND | 10.0000 | | |
| Copper, Total | ug/L | MW-11A | 05/10/2011 | ND | 10.0000 | | |
| Copper, Total | ug/L | MW-11A | 10/19/2011 | ND | 10.0000 | | |
| Copper, Total | ug/L | MW-11A | 04/24/2012 | ND | 10.0000 | | |
| Copper, Total | ug/L | MW-11A | 10/25/2012 | | 21.0000 | | * |
| Copper, Total | ug/L | MW-11A | 11/11/2013 | ND | 10.0000 | | |
| Copper, Total | ug/L | MW-11A | 11/12/2014 | ND | 10.0000 | | |
| Copper, Total | ug/L | MW-11A | 11/18/2015 | | 15.0000 | | |
| Copper, Total | ug/L | MW-11A | 06/16/2016 | ND | 10.0000 | | |
| Copper, Total | ug/L | MW-11A | 11/16/2016 | ND | 10.0000 | | |
| Copper, Total | ug/L | MW-11A | 05/30/2017 | ND | 10.0000 | | |
| Copper, Total | ug/L | MW-11A | 11/21/2017 | ND | 10.0000 | | |
| Copper, Total | ug/L | MW-11A | 05/31/2018 | ND | 10.0000 | | |
| Copper, Total | ug/L | MW-11A | 10/31/2018 | ND | 10.0000 | | |
| Copper, Total | ug/L | MW-11A | 05/28/2019 | ND | 10.0000 | | |
| Copper, Total | ug/L | MW-11A | 10/15/2019 | ND | 10.0000 | | |
| Copper, Total | ug/L | MW-11A | 06/03/2020 | ND | 10.0000 | | |
| Copper, Total | ug/L | MW-11A | 10/07/2020 | ND | 10.0000 | | |

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

## Table 1

### Upgradient Data

| Constituent | Units | Well | Date | | Result | Adjusted | |
|---|---|---|---|---|---|---|---|
| Copper, Total | ug/L | MW-11A | 05/03/2021 | ND | 10.0000 | | |
| Copper, Total | ug/L | MW-11A | 11/09/2021 | ND | 10.0000 | | |
| Copper, Total | ug/L | MW-11A | 05/17/2022 | ND | 10.0000 | | |
| Copper, Total | ug/L | MW-11A | 10/17/2022 | ND | 10.0000 | | |
| Copper, Total | ug/L | MW-11A | 05/22/2023 | ND | 10.0000 | | |
| Copper, Total | ug/L | MW-11A | 10/05/2023 | ND | 10.0000 | | |
| Copper, Total | ug/L | MW-11A | 05/20/2024 | ND | 10.0000 | | |
| Copper, Total | ug/L | MW-11A | 10/02/2024 | ND | 10.0000 | | |
| Copper, Total | ug/L | MW-11A | 05/12/2025 | ND | 10.0000 | | |
| Copper, Total | ug/L | MW-11A | 10/14/2025 | ND | 10.0000 | | |
| Lead, Total | ug/L | MW-11A | 04/13/2010 | ND | 10.0000 | | |
| Lead, Total | ug/L | MW-11A | 10/18/2010 | ND | 10.0000 | | |
| Lead, Total | ug/L | MW-11A | 05/10/2011 | ND | 10.0000 | | |
| Lead, Total | ug/L | MW-11A | 10/19/2011 | ND | 10.0000 | | |
| Lead, Total | ug/L | MW-11A | 04/24/2012 | ND | 10.0000 | | |
| Lead, Total | ug/L | MW-11A | 10/25/2012 | ND | 10.0000 | | |
| Lead, Total | ug/L | MW-11A | 11/11/2013 | ND | 10.0000 | | |
| Lead, Total | ug/L | MW-11A | 11/12/2014 | ND | 10.0000 | | |
| Lead, Total | ug/L | MW-11A | 11/18/2015 | ND | 10.0000 | | |
| Lead, Total | ug/L | MW-11A | 06/16/2016 | ND | 10.0000 | | |
| Lead, Total | ug/L | MW-11A | 11/16/2016 | ND | 10.0000 | | |
| Lead, Total | ug/L | MW-11A | 05/30/2017 | ND | 10.0000 | | |
| Lead, Total | ug/L | MW-11A | 11/21/2017 | ND | 10.0000 | | |
| Lead, Total | ug/L | MW-11A | 05/31/2018 | ND | 10.0000 | | |
| Lead, Total | ug/L | MW-11A | 10/31/2018 | ND | 10.0000 | | |
| Lead, Total | ug/L | MW-11A | 05/28/2019 | ND | 10.0000 | | |
| Lead, Total | ug/L | MW-11A | 10/15/2019 | ND | 10.0000 | | |
| Lead, Total | ug/L | MW-11A | 06/03/2020 | ND | 10.0000 | | |
| Lead, Total | ug/L | MW-11A | 10/07/2020 | ND | 10.0000 | | |
| Lead, Total | ug/L | MW-11A | 05/03/2021 | ND | 10.0000 | | |
| Lead, Total | ug/L | MW-11A | 11/09/2021 | ND | 10.0000 | | |
| Lead, Total | ug/L | MW-11A | 05/17/2022 | ND | 10.0000 | | |
| Lead, Total | ug/L | MW-11A | 10/17/2022 | ND | 10.0000 | | |
| Lead, Total | ug/L | MW-11A | 05/22/2023 | ND | 10.0000 | | |
| Lead, Total | ug/L | MW-11A | 10/05/2023 | ND | 10.0000 | | |
| Lead, Total | ug/L | MW-11A | 05/20/2024 | ND | 10.0000 | | |
| Lead, Total | ug/L | MW-11A | 10/02/2024 | ND | 10.0000 | | |
| Lead, Total | ug/L | MW-11A | 05/12/2025 | ND | 10.0000 | | |
| Lead, Total | ug/L | MW-11A | 10/14/2025 | ND | 10.0000 | | |
| Nickel, Total | ug/L | MW-11A | 04/13/2010 | ND | 10.0000 | | |
| Nickel, Total | ug/L | MW-11A | 10/18/2010 | ND | 10.0000 | | |
| Nickel, Total | ug/L | MW-11A | 05/10/2011 | ND | 10.0000 | | |
| Nickel, Total | ug/L | MW-11A | 10/19/2011 | ND | 10.0000 | | |
| Nickel, Total | ug/L | MW-11A | 04/24/2012 | ND | 10.0000 | | |
| Nickel, Total | ug/L | MW-11A | 10/25/2012 | | 23.0000 | | * |
| Nickel, Total | ug/L | MW-11A | 11/11/2013 | ND | 10.0000 | | |
| Nickel, Total | ug/L | MW-11A | 11/12/2014 | ND | 10.0000 | | |
| Nickel, Total | ug/L | MW-11A | 11/18/2015 | | 13.0000 | | |
| Nickel, Total | ug/L | MW-11A | 06/16/2016 | ND | 10.0000 | | |
| Nickel, Total | ug/L | MW-11A | 11/16/2016 | ND | 10.0000 | | |
| Nickel, Total | ug/L | MW-11A | 05/30/2017 | ND | 10.0000 | | |
| Nickel, Total | ug/L | MW-11A | 11/21/2017 | ND | 10.0000 | | |
| Nickel, Total | ug/L | MW-11A | 05/31/2018 | ND | 10.0000 | | |
| Nickel, Total | ug/L | MW-11A | 10/31/2018 | ND | 10.0000 | | |
| Nickel, Total | ug/L | MW-11A | 05/28/2019 | ND | 10.0000 | | |
| Nickel, Total | ug/L | MW-11A | 10/15/2019 | ND | 10.0000 | | |
| Nickel, Total | ug/L | MW-11A | 06/03/2020 | ND | 10.0000 | | |
| Nickel, Total | ug/L | MW-11A | 10/07/2020 | ND | 10.0000 | | |
| Nickel, Total | ug/L | MW-11A | 05/03/2021 | ND | 10.0000 | | |
| Nickel, Total | ug/L | MW-11A | 11/09/2021 | ND | 10.0000 | | |
| Nickel, Total | ug/L | MW-11A | 05/17/2022 | ND | 10.0000 | | |
| Nickel, Total | ug/L | MW-11A | 10/17/2022 | ND | 10.0000 | | |
| Nickel, Total | ug/L | MW-11A | 05/22/2023 | ND | 10.0000 | | |
| Nickel, Total | ug/L | MW-11A | 10/05/2023 | ND | 10.0000 | | |
| Nickel, Total | ug/L | MW-11A | 05/20/2024 | ND | 10.0000 | | |
| Nickel, Total | ug/L | MW-11A | 10/02/2024 | ND | 10.0000 | | |
| Nickel, Total | ug/L | MW-11A | 05/12/2025 | ND | 10.0000 | | |
| Nickel, Total | ug/L | MW-11A | 10/14/2025 | ND | 10.0000 | | |
| Selenium, Total | ug/L | MW-11A | 04/13/2010 | ND | 10.0000 | | |
| Selenium, Total | ug/L | MW-11A | 10/18/2010 | ND | 10.0000 | | |
| Selenium, Total | ug/L | MW-11A | 05/10/2011 | ND | 10.0000 | | |
| Selenium, Total | ug/L | MW-11A | 10/19/2011 | ND | 10.0000 | | |
| Selenium, Total | ug/L | MW-11A | 04/24/2012 | ND | 10.0000 | | |
| Selenium, Total | ug/L | MW-11A | 10/25/2012 | ND | 10.0000 | | |

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

## Table 1

### Upgradient Data

| Constituent | Units | Well | Date | | Result | Adjusted | |
|---|---|---|---|---|---|---|---|
| Selenium, Total | ug/L | MW-11A | 11/11/2013 | | 25.0000 | | |
| Selenium, Total | ug/L | MW-11A | 11/12/2014 | | 67.0000 | | * |
| Selenium, Total | ug/L | MW-11A | 11/18/2015 | | 44.0000 | | * |
| Selenium, Total | ug/L | MW-11A | 06/16/2016 | ND | 10.0000 | | |
| Selenium, Total | ug/L | MW-11A | 11/16/2016 | ND | 10.0000 | | |
| Selenium, Total | ug/L | MW-11A | 05/30/2017 | ND | 10.0000 | | |
| Selenium, Total | ug/L | MW-11A | 11/21/2017 | ND | 10.0000 | | |
| Selenium, Total | ug/L | MW-11A | 05/31/2018 | ND | 10.0000 | | |
| Selenium, Total | ug/L | MW-11A | 10/31/2018 | ND | 10.0000 | | |
| Selenium, Total | ug/L | MW-11A | 05/28/2019 | ND | 10.0000 | | |
| Selenium, Total | ug/L | MW-11A | 10/15/2019 | ND | 10.0000 | | |
| Selenium, Total | ug/L | MW-11A | 06/03/2020 | ND | 10.0000 | | |
| Selenium, Total | ug/L | MW-11A | 10/07/2020 | ND | 10.0000 | | |
| Selenium, Total | ug/L | MW-11A | 05/03/2021 | ND | 10.0000 | | |
| Selenium, Total | ug/L | MW-11A | 11/09/2021 | ND | 10.0000 | | |
| Selenium, Total | ug/L | MW-11A | 05/17/2022 | ND | 10.0000 | | |
| Selenium, Total | ug/L | MW-11A | 10/17/2022 | ND | 10.0000 | | |
| Selenium, Total | ug/L | MW-11A | 05/22/2023 | ND | 10.0000 | | |
| Selenium, Total | ug/L | MW-11A | 10/05/2023 | ND | 10.0000 | | |
| Selenium, Total | ug/L | MW-11A | 05/20/2024 | ND | 10.0000 | | |
| Selenium, Total | ug/L | MW-11A | 10/02/2024 | ND | 10.0000 | | |
| Selenium, Total | ug/L | MW-11A | 05/12/2025 | ND | 10.0000 | | |
| Selenium, Total | ug/L | MW-11A | 10/14/2025 | ND | 10.0000 | | |
| Silver, Total | ug/L | MW-11A | 04/13/2010 | ND | 10.0000 | | |
| Silver, Total | ug/L | MW-11A | 10/18/2010 | ND | 10.0000 | | |
| Silver, Total | ug/L | MW-11A | 05/10/2011 | ND | 10.0000 | | |
| Silver, Total | ug/L | MW-11A | 10/19/2011 | ND | 10.0000 | | |
| Silver, Total | ug/L | MW-11A | 04/24/2012 | ND | 10.0000 | | |
| Silver, Total | ug/L | MW-11A | 10/25/2012 | ND | 10.0000 | | |
| Silver, Total | ug/L | MW-11A | 11/11/2013 | ND | 10.0000 | | |
| Silver, Total | ug/L | MW-11A | 11/12/2014 | ND | 10.0000 | | |
| Silver, Total | ug/L | MW-11A | 11/18/2015 | ND | 10.0000 | | |
| Silver, Total | ug/L | MW-11A | 06/16/2016 | ND | 10.0000 | | |
| Silver, Total | ug/L | MW-11A | 11/16/2016 | ND | 10.0000 | | |
| Silver, Total | ug/L | MW-11A | 05/30/2017 | ND | 10.0000 | | |
| Silver, Total | ug/L | MW-11A | 11/21/2017 | ND | 10.0000 | | |
| Silver, Total | ug/L | MW-11A | 05/31/2018 | ND | 10.0000 | | |
| Silver, Total | ug/L | MW-11A | 10/31/2018 | ND | 10.0000 | | |
| Silver, Total | ug/L | MW-11A | 05/28/2019 | ND | 10.0000 | | |
| Silver, Total | ug/L | MW-11A | 10/15/2019 | ND | 10.0000 | | |
| Silver, Total | ug/L | MW-11A | 06/03/2020 | ND | 10.0000 | | |
| Silver, Total | ug/L | MW-11A | 10/07/2020 | ND | 10.0000 | | |
| Silver, Total | ug/L | MW-11A | 05/03/2021 | ND | 10.0000 | | |
| Silver, Total | ug/L | MW-11A | 11/09/2021 | ND | 10.0000 | | |
| Silver, Total | ug/L | MW-11A | 05/17/2022 | ND | 10.0000 | | |
| Silver, Total | ug/L | MW-11A | 10/17/2022 | ND | 10.0000 | | |
| Silver, Total | ug/L | MW-11A | 05/22/2023 | ND | 10.0000 | | |
| Silver, Total | ug/L | MW-11A | 10/05/2023 | ND | 10.0000 | | |
| Silver, Total | ug/L | MW-11A | 05/20/2024 | ND | 10.0000 | | |
| Silver, Total | ug/L | MW-11A | 10/02/2024 | ND | 10.0000 | | |
| Silver, Total | ug/L | MW-11A | 05/12/2025 | ND | 10.0000 | | |
| Silver, Total | ug/L | MW-11A | 10/14/2025 | ND | 10.0000 | | |
| Thallium, Total | ug/L | MW-11A | 04/13/2010 | ND | 2.0000 | | |
| Thallium, Total | ug/L | MW-11A | 10/18/2010 | ND | 2.0000 | | |
| Thallium, Total | ug/L | MW-11A | 05/10/2011 | ND | 2.0000 | | |
| Thallium, Total | ug/L | MW-11A | 10/19/2011 | ND | 2.0000 | | |
| Thallium, Total | ug/L | MW-11A | 04/24/2012 | ND | 2.0000 | | |
| Thallium, Total | ug/L | MW-11A | 10/25/2012 | ND | 2.0000 | | |
| Thallium, Total | ug/L | MW-11A | 11/11/2013 | ND | 2.0000 | | |
| Thallium, Total | ug/L | MW-11A | 11/12/2014 | ND | 2.0000 | | |
| Thallium, Total | ug/L | MW-11A | 11/18/2015 | ND | 2.0000 | | |
| Thallium, Total | ug/L | MW-11A | 06/16/2016 | ND | 2.0000 | | |
| Thallium, Total | ug/L | MW-11A | 11/16/2016 | ND | 2.0000 | | |
| Thallium, Total | ug/L | MW-11A | 05/30/2017 | ND | 2.0000 | | |
| Thallium, Total | ug/L | MW-11A | 11/21/2017 | ND | 2.0000 | | |
| Thallium, Total | ug/L | MW-11A | 05/31/2018 | ND | 2.0000 | | |
| Thallium, Total | ug/L | MW-11A | 10/31/2018 | ND | 2.0000 | | |
| Thallium, Total | ug/L | MW-11A | 05/28/2019 | ND | 2.0000 | | |
| Thallium, Total | ug/L | MW-11A | 10/15/2019 | ND | 2.0000 | | |
| Thallium, Total | ug/L | MW-11A | 06/03/2020 | ND | 2.0000 | | |
| Thallium, Total | ug/L | MW-11A | 10/07/2020 | ND | 2.0000 | | |
| Thallium, Total | ug/L | MW-11A | 05/03/2021 | ND | 2.0000 | | |
| Thallium, Total | ug/L | MW-11A | 11/09/2021 | ND | 2.0000 | | |
| Thallium, Total | ug/L | MW-11A | 05/17/2022 | ND | 2.0000 | | |

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

## Table 1

### Upgradient Data

| Constituent | Units | Well | Date | | Result | Adjusted | |
|---|---|---|---|---|---|---|---|
| Thallium, Total | ug/L | MW-11A | 10/17/2022 | ND | 2.0000 | | |
| Thallium, Total | ug/L | MW-11A | 05/22/2023 | ND | 2.0000 | | |
| Thallium, Total | ug/L | MW-11A | 10/05/2023 | ND | 2.0000 | | |
| Thallium, Total | ug/L | MW-11A | 05/20/2024 | ND | 2.0000 | | |
| Thallium, Total | ug/L | MW-11A | 10/02/2024 | ND | 2.0000 | | |
| Thallium, Total | ug/L | MW-11A | 05/12/2025 | ND | 2.0000 | | |
| Thallium, Total | ug/L | MW-11A | 10/14/2025 | ND | 2.0000 | | |
| Vanadium, Total | ug/L | MW-11A | 04/13/2010 | ND | 20.0000 | | |
| Vanadium, Total | ug/L | MW-11A | 10/18/2010 | ND | 20.0000 | | |
| Vanadium, Total | ug/L | MW-11A | 05/10/2011 | ND | 20.0000 | | |
| Vanadium, Total | ug/L | MW-11A | 10/19/2011 | ND | 20.0000 | | |
| Vanadium, Total | ug/L | MW-11A | 04/24/2012 | ND | 20.0000 | | |
| Vanadium, Total | ug/L | MW-11A | 10/25/2012 | | 55.0000 | | * |
| Vanadium, Total | ug/L | MW-11A | 11/11/2013 | ND | 20.0000 | | |
| Vanadium, Total | ug/L | MW-11A | 11/12/2014 | ND | 20.0000 | | |
| Vanadium, Total | ug/L | MW-11A | 11/18/2015 | | 33.0000 | | |
| Vanadium, Total | ug/L | MW-11A | 06/16/2016 | ND | 20.0000 | | |
| Vanadium, Total | ug/L | MW-11A | 11/16/2016 | ND | 20.0000 | | |
| Vanadium, Total | ug/L | MW-11A | 05/30/2017 | ND | 20.0000 | | |
| Vanadium, Total | ug/L | MW-11A | 11/21/2017 | ND | 20.0000 | | |
| Vanadium, Total | ug/L | MW-11A | 05/31/2018 | ND | 20.0000 | | |
| Vanadium, Total | ug/L | MW-11A | 10/31/2018 | ND | 20.0000 | | |
| Vanadium, Total | ug/L | MW-11A | 05/28/2019 | ND | 20.0000 | | |
| Vanadium, Total | ug/L | MW-11A | 10/15/2019 | ND | 20.0000 | | |
| Vanadium, Total | ug/L | MW-11A | 06/03/2020 | ND | 20.0000 | | |
| Vanadium, Total | ug/L | MW-11A | 10/07/2020 | ND | 20.0000 | | |
| Vanadium, Total | ug/L | MW-11A | 05/03/2021 | ND | 20.0000 | | |
| Vanadium, Total | ug/L | MW-11A | 11/09/2021 | ND | 20.0000 | | |
| Vanadium, Total | ug/L | MW-11A | 05/17/2022 | ND | 20.0000 | | |
| Vanadium, Total | ug/L | MW-11A | 10/17/2022 | ND | 20.0000 | | |
| Vanadium, Total | ug/L | MW-11A | 05/22/2023 | ND | 20.0000 | | |
| Vanadium, Total | ug/L | MW-11A | 10/05/2023 | ND | 20.0000 | | |
| Vanadium, Total | ug/L | MW-11A | 05/20/2024 | ND | 20.0000 | | |
| Vanadium, Total | ug/L | MW-11A | 10/02/2024 | ND | 20.0000 | | |
| Vanadium, Total | ug/L | MW-11A | 05/12/2025 | ND | 20.0000 | | |
| Vanadium, Total | ug/L | MW-11A | 10/14/2025 | ND | 20.0000 | | |
| Zinc, Total | ug/L | MW-11A | 04/13/2010 | ND | 20.0000 | | |
| Zinc, Total | ug/L | MW-11A | 10/18/2010 | ND | 20.0000 | | |
| Zinc, Total | ug/L | MW-11A | 05/10/2011 | ND | 20.0000 | | |
| Zinc, Total | ug/L | MW-11A | 10/19/2011 | ND | 20.0000 | | |
| Zinc, Total | ug/L | MW-11A | 04/24/2012 | ND | 20.0000 | | |
| Zinc, Total | ug/L | MW-11A | 10/25/2012 | | 52.0000 | | * |
| Zinc, Total | ug/L | MW-11A | 11/11/2013 | ND | 20.0000 | | |
| Zinc, Total | ug/L | MW-11A | 11/12/2014 | | 26.0000 | | |
| Zinc, Total | ug/L | MW-11A | 11/18/2015 | | 32.0000 | | |
| Zinc, Total | ug/L | MW-11A | 06/16/2016 | ND | 20.0000 | | |
| Zinc, Total | ug/L | MW-11A | 11/16/2016 | ND | 20.0000 | | |
| Zinc, Total | ug/L | MW-11A | 05/30/2017 | ND | 20.0000 | | |
| Zinc, Total | ug/L | MW-11A | 11/21/2017 | ND | 20.0000 | | |
| Zinc, Total | ug/L | MW-11A | 05/31/2018 | ND | 20.0000 | | |
| Zinc, Total | ug/L | MW-11A | 10/31/2018 | ND | 20.0000 | | |
| Zinc, Total | ug/L | MW-11A | 05/28/2019 | ND | 20.0000 | | |
| Zinc, Total | ug/L | MW-11A | 10/15/2019 | ND | 20.0000 | | |
| Zinc, Total | ug/L | MW-11A | 06/03/2020 | ND | 50.0000 | 20.0000 | ** |
| Zinc, Total | ug/L | MW-11A | 10/07/2020 | ND | 50.0000 | 20.0000 | ** |
| Zinc, Total | ug/L | MW-11A | 05/03/2021 | ND | 50.0000 | 20.0000 | ** |
| Zinc, Total | ug/L | MW-11A | 11/09/2021 | ND | 50.0000 | 20.0000 | ** |
| Zinc, Total | ug/L | MW-11A | 05/17/2022 | ND | 50.0000 | 20.0000 | ** |
| Zinc, Total | ug/L | MW-11A | 10/17/2022 | ND | 50.0000 | 20.0000 | ** |
| Zinc, Total | ug/L | MW-11A | 05/22/2023 | ND | 50.0000 | 20.0000 | ** |
| Zinc, Total | ug/L | MW-11A | 10/05/2023 | ND | 50.0000 | 20.0000 | ** |
| Zinc, Total | ug/L | MW-11A | 05/20/2024 | ND | 50.0000 | 20.0000 | ** |
| Zinc, Total | ug/L | MW-11A | 10/02/2024 | ND | 50.0000 | 20.0000 | ** |
| Zinc, Total | ug/L | MW-11A | 05/12/2025 | ND | 50.0000 | 20.0000 | ** |
| Zinc, Total | ug/L | MW-11A | 10/14/2025 | ND | 50.0000 | 20.0000 | ** |
| Antimony, Total | ug/L | MW-13A | 04/13/2010 | ND | 6.8000 | 6.0000 | ** |
| Antimony, Total | ug/L | MW-13A | 10/18/2010 | ND | 6.8000 | 6.0000 | ** |
| Antimony, Total | ug/L | MW-13A | 05/10/2011 | ND | 6.0000 | | |
| Antimony, Total | ug/L | MW-13A | 10/19/2011 | ND | 6.0000 | | |
| Antimony, Total | ug/L | MW-13A | 04/24/2012 | ND | 6.0000 | | |
| Antimony, Total | ug/L | MW-13A | 10/25/2012 | ND | 6.0000 | | |
| Antimony, Total | ug/L | MW-13A | 05/07/2013 | ND | 6.0000 | | |
| Antimony, Total | ug/L | MW-13A | 11/11/2013 | ND | 6.0000 | | |
| Antimony, Total | ug/L | MW-13A | 05/13/2014 | ND | 6.0000 | | |

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

## Table 1

### Upgradient Data

| Constituent | Units | Well | Date | | Result | Adjusted | |
|---|---|---|---|---|---|---|---|
| Antimony, Total | ug/L | MW-13A | 11/12/2014 | ND | 6.0000 | | |
| Antimony, Total | ug/L | MW-13A | 05/27/2015 | ND | 6.0000 | | |
| Antimony, Total | ug/L | MW-13A | 11/18/2015 | ND | 6.0000 | | |
| Antimony, Total | ug/L | MW-13A | 06/16/2016 | ND | 6.0000 | | |
| Antimony, Total | ug/L | MW-13A | 11/16/2016 | ND | 6.0000 | | |
| Antimony, Total | ug/L | MW-13A | 05/30/2017 | ND | 6.0000 | | |
| Antimony, Total | ug/L | MW-13A | 11/21/2017 | ND | 6.0000 | | |
| Antimony, Total | ug/L | MW-13A | 05/31/2018 | ND | 6.0000 | | |
| Antimony, Total | ug/L | MW-13A | 10/31/2018 | ND | 6.0000 | | |
| Antimony, Total | ug/L | MW-13A | 05/28/2019 | ND | 6.0000 | | |
| Antimony, Total | ug/L | MW-13A | 10/15/2019 | ND | 6.0000 | | |
| Antimony, Total | ug/L | MW-13A | 06/03/2020 | ND | 6.0000 | | |
| Antimony, Total | ug/L | MW-13A | 10/07/2020 | ND | 6.0000 | | |
| Antimony, Total | ug/L | MW-13A | 05/03/2021 | ND | 6.0000 | | |
| Antimony, Total | ug/L | MW-13A | 11/09/2021 | ND | 6.0000 | | |
| Antimony, Total | ug/L | MW-13A | 05/17/2022 | ND | 6.0000 | | |
| Antimony, Total | ug/L | MW-13A | 10/17/2022 | ND | 6.0000 | | |
| Antimony, Total | ug/L | MW-13A | 06/08/2023 | ND | 6.0000 | | |
| Antimony, Total | ug/L | MW-13A | 10/05/2023 | ND | 6.0000 | | |
| Antimony, Total | ug/L | MW-13A | 05/20/2024 | ND | 6.0000 | | |
| Antimony, Total | ug/L | MW-13A | 10/02/2024 | ND | 6.0000 | | |
| Antimony, Total | ug/L | MW-13A | 05/12/2025 | ND | 6.0000 | | |
| Antimony, Total | ug/L | MW-13A | 10/14/2025 | ND | 6.0000 | | |
| Arsenic, Total | ug/L | MW-13A | 04/13/2010 | ND | 10.0000 | | |
| Arsenic, Total | ug/L | MW-13A | 10/18/2010 | ND | 10.0000 | | |
| Arsenic, Total | ug/L | MW-13A | 05/10/2011 | ND | 10.0000 | | |
| Arsenic, Total | ug/L | MW-13A | 10/19/2011 | ND | 10.0000 | | |
| Arsenic, Total | ug/L | MW-13A | 04/24/2012 | ND | 10.0000 | | |
| Arsenic, Total | ug/L | MW-13A | 10/25/2012 | ND | 10.0000 | | |
| Arsenic, Total | ug/L | MW-13A | 05/07/2013 | ND | 10.0000 | | |
| Arsenic, Total | ug/L | MW-13A | 11/11/2013 | ND | 10.0000 | | |
| Arsenic, Total | ug/L | MW-13A | 05/13/2014 | ND | 10.0000 | | |
| Arsenic, Total | ug/L | MW-13A | 11/12/2014 | ND | 10.0000 | | |
| Arsenic, Total | ug/L | MW-13A | 05/27/2015 | ND | 10.0000 | | |
| Arsenic, Total | ug/L | MW-13A | 11/18/2015 | ND | 10.0000 | | |
| Arsenic, Total | ug/L | MW-13A | 06/16/2016 | ND | 10.0000 | | |
| Arsenic, Total | ug/L | MW-13A | 11/16/2016 | ND | 10.0000 | | |
| Arsenic, Total | ug/L | MW-13A | 05/30/2017 | ND | 10.0000 | | |
| Arsenic, Total | ug/L | MW-13A | 11/21/2017 | ND | 10.0000 | | |
| Arsenic, Total | ug/L | MW-13A | 05/31/2018 | ND | 10.0000 | | |
| Arsenic, Total | ug/L | MW-13A | 10/31/2018 | ND | 10.0000 | | |
| Arsenic, Total | ug/L | MW-13A | 05/28/2019 | ND | 10.0000 | | |
| Arsenic, Total | ug/L | MW-13A | 10/15/2019 | ND | 10.0000 | | |
| Arsenic, Total | ug/L | MW-13A | 06/03/2020 | ND | 10.0000 | | |
| Arsenic, Total | ug/L | MW-13A | 10/07/2020 | ND | 10.0000 | | |
| Arsenic, Total | ug/L | MW-13A | 05/03/2021 | ND | 10.0000 | | |
| Arsenic, Total | ug/L | MW-13A | 11/09/2021 | ND | 10.0000 | | |
| Arsenic, Total | ug/L | MW-13A | 05/17/2022 | ND | 10.0000 | | |
| Arsenic, Total | ug/L | MW-13A | 10/17/2022 | ND | 10.0000 | | |
| Arsenic, Total | ug/L | MW-13A | 06/08/2023 | ND | 10.0000 | | |
| Arsenic, Total | ug/L | MW-13A | 10/05/2023 | ND | 10.0000 | | |
| Arsenic, Total | ug/L | MW-13A | 05/20/2024 | ND | 10.0000 | | |
| Arsenic, Total | ug/L | MW-13A | 10/02/2024 | ND | 10.0000 | | |
| Arsenic, Total | ug/L | MW-13A | 05/12/2025 | ND | 10.0000 | | |
| Arsenic, Total | ug/L | MW-13A | 10/14/2025 | ND | 10.0000 | | |
| Barium, Total | ug/L | MW-13A | 04/13/2010 | | 163.0000 | | |
| Barium, Total | ug/L | MW-13A | 10/18/2010 | | 201.0000 | | |
| Barium, Total | ug/L | MW-13A | 05/10/2011 | | 230.0000 | | |
| Barium, Total | ug/L | MW-13A | 10/19/2011 | | 220.0000 | | |
| Barium, Total | ug/L | MW-13A | 04/24/2012 | | 220.0000 | | |
| Barium, Total | ug/L | MW-13A | 10/25/2012 | | 190.0000 | | |
| Barium, Total | ug/L | MW-13A | 05/07/2013 | | 270.0000 | | |
| Barium, Total | ug/L | MW-13A | 11/11/2013 | | 180.0000 | | |
| Barium, Total | ug/L | MW-13A | 05/13/2014 | | 210.0000 | | |
| Barium, Total | ug/L | MW-13A | 11/12/2014 | | 270.0000 | | |
| Barium, Total | ug/L | MW-13A | 05/27/2015 | | 210.0000 | | |
| Barium, Total | ug/L | MW-13A | 11/18/2015 | | 250.0000 | | |
| Barium, Total | ug/L | MW-13A | 06/16/2016 | | 230.0000 | | |
| Barium, Total | ug/L | MW-13A | 11/16/2016 | | 290.0000 | | |
| Barium, Total | ug/L | MW-13A | 05/30/2017 | | 300.0000 | | |
| Barium, Total | ug/L | MW-13A | 11/21/2017 | | 270.0000 | | |
| Barium, Total | ug/L | MW-13A | 05/31/2018 | | 250.0000 | | |
| Barium, Total | ug/L | MW-13A | 10/31/2018 | | 340.0000 | | |
| Barium, Total | ug/L | MW-13A | 05/28/2019 | | 320.0000 | | |

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

## Table 1

### Upgradient Data

| Constituent | Units | Well | Date | | Result | Adjusted | |
|---|---|---|---|---|---|---|---|
| Barium, Total | ug/L | MW-13A | 10/15/2019 | | 310.0000 | | |
| Barium, Total | ug/L | MW-13A | 06/03/2020 | | 335.0000 | | |
| Barium, Total | ug/L | MW-13A | 10/07/2020 | | 304.0000 | | |
| Barium, Total | ug/L | MW-13A | 05/03/2021 | | 344.0000 | | |
| Barium, Total | ug/L | MW-13A | 11/09/2021 | | 365.0000 | | |
| Barium, Total | ug/L | MW-13A | 05/17/2022 | | 322.0000 | | |
| Barium, Total | ug/L | MW-13A | 10/17/2022 | | 389.0000 | | |
| Barium, Total | ug/L | MW-13A | 06/08/2023 | | 444.0000 | | |
| Barium, Total | ug/L | MW-13A | 10/05/2023 | | 401.0000 | | |
| Barium, Total | ug/L | MW-13A | 05/20/2024 | | 451.0000 | | |
| Barium, Total | ug/L | MW-13A | 10/02/2024 | | 420.0000 | | |
| Barium, Total | ug/L | MW-13A | 05/12/2025 | | 396.0000 | | |
| Barium, Total | ug/L | MW-13A | 10/14/2025 | | 413.0000 | | |
| Beryllium, Total | ug/L | MW-13A | 04/13/2010 | ND | 4.0000 | | |
| Beryllium, Total | ug/L | MW-13A | 10/18/2010 | ND | 4.0000 | | |
| Beryllium, Total | ug/L | MW-13A | 05/10/2011 | ND | 4.0000 | | |
| Beryllium, Total | ug/L | MW-13A | 10/19/2011 | ND | 4.0000 | | |
| Beryllium, Total | ug/L | MW-13A | 04/24/2012 | ND | 4.0000 | | |
| Beryllium, Total | ug/L | MW-13A | 10/25/2012 | ND | 4.0000 | | |
| Beryllium, Total | ug/L | MW-13A | 05/07/2013 | ND | 4.0000 | | |
| Beryllium, Total | ug/L | MW-13A | 11/11/2013 | ND | 4.0000 | | |
| Beryllium, Total | ug/L | MW-13A | 05/13/2014 | ND | 4.0000 | | |
| Beryllium, Total | ug/L | MW-13A | 11/12/2014 | ND | 4.0000 | | |
| Beryllium, Total | ug/L | MW-13A | 05/27/2015 | ND | 4.0000 | | |
| Beryllium, Total | ug/L | MW-13A | 11/18/2015 | ND | 4.0000 | | |
| Beryllium, Total | ug/L | MW-13A | 06/16/2016 | ND | 4.0000 | | |
| Beryllium, Total | ug/L | MW-13A | 11/16/2016 | ND | 4.0000 | | |
| Beryllium, Total | ug/L | MW-13A | 05/30/2017 | ND | 4.0000 | | |
| Beryllium, Total | ug/L | MW-13A | 11/21/2017 | ND | 4.0000 | | |
| Beryllium, Total | ug/L | MW-13A | 05/31/2018 | ND | 4.0000 | | |
| Beryllium, Total | ug/L | MW-13A | 10/31/2018 | ND | 4.0000 | | |
| Beryllium, Total | ug/L | MW-13A | 05/28/2019 | ND | 4.0000 | | |
| Beryllium, Total | ug/L | MW-13A | 10/15/2019 | ND | 4.0000 | | |
| Beryllium, Total | ug/L | MW-13A | 06/03/2020 | ND | 4.0000 | | |
| Beryllium, Total | ug/L | MW-13A | 10/07/2020 | ND | 4.0000 | | |
| Beryllium, Total | ug/L | MW-13A | 05/03/2021 | ND | 4.0000 | | |
| Beryllium, Total | ug/L | MW-13A | 11/09/2021 | ND | 4.0000 | | |
| Beryllium, Total | ug/L | MW-13A | 05/17/2022 | ND | 4.0000 | | |
| Beryllium, Total | ug/L | MW-13A | 10/17/2022 | ND | 4.0000 | | |
| Beryllium, Total | ug/L | MW-13A | 06/08/2023 | ND | 4.0000 | | |
| Beryllium, Total | ug/L | MW-13A | 10/05/2023 | ND | 4.0000 | | |
| Beryllium, Total | ug/L | MW-13A | 05/20/2024 | ND | 4.0000 | | |
| Beryllium, Total | ug/L | MW-13A | 10/02/2024 | ND | 4.0000 | | |
| Beryllium, Total | ug/L | MW-13A | 05/12/2025 | ND | 4.0000 | | |
| Beryllium, Total | ug/L | MW-13A | 10/14/2025 | ND | 4.0000 | | |
| Cadmium, Total | ug/L | MW-13A | 04/13/2010 | ND | 5.0000 | | |
| Cadmium, Total | ug/L | MW-13A | 10/18/2010 | ND | 5.0000 | | |
| Cadmium, Total | ug/L | MW-13A | 05/10/2011 | ND | 5.0000 | | |
| Cadmium, Total | ug/L | MW-13A | 10/19/2011 | ND | 5.0000 | | |
| Cadmium, Total | ug/L | MW-13A | 04/24/2012 | ND | 5.0000 | | |
| Cadmium, Total | ug/L | MW-13A | 10/25/2012 | ND | 5.0000 | | |
| Cadmium, Total | ug/L | MW-13A | 05/07/2013 | ND | 5.0000 | | |
| Cadmium, Total | ug/L | MW-13A | 11/11/2013 | ND | 5.0000 | | |
| Cadmium, Total | ug/L | MW-13A | 05/13/2014 | ND | 5.0000 | | |
| Cadmium, Total | ug/L | MW-13A | 11/12/2014 | ND | 5.0000 | | |
| Cadmium, Total | ug/L | MW-13A | 05/27/2015 | ND | 5.0000 | | |
| Cadmium, Total | ug/L | MW-13A | 11/18/2015 | ND | 5.0000 | | |
| Cadmium, Total | ug/L | MW-13A | 06/16/2016 | ND | 5.0000 | | |
| Cadmium, Total | ug/L | MW-13A | 11/16/2016 | ND | 5.0000 | | |
| Cadmium, Total | ug/L | MW-13A | 05/30/2017 | ND | 5.0000 | | |
| Cadmium, Total | ug/L | MW-13A | 11/21/2017 | ND | 5.0000 | | |
| Cadmium, Total | ug/L | MW-13A | 05/31/2018 | ND | 5.0000 | | |
| Cadmium, Total | ug/L | MW-13A | 10/31/2018 | ND | 5.0000 | | |
| Cadmium, Total | ug/L | MW-13A | 05/28/2019 | ND | 5.0000 | | |
| Cadmium, Total | ug/L | MW-13A | 10/15/2019 | ND | 5.0000 | | |
| Cadmium, Total | ug/L | MW-13A | 06/03/2020 | ND | 5.0000 | | |
| Cadmium, Total | ug/L | MW-13A | 10/07/2020 | ND | 5.0000 | | |
| Cadmium, Total | ug/L | MW-13A | 05/03/2021 | ND | 5.0000 | | |
| Cadmium, Total | ug/L | MW-13A | 11/09/2021 | ND | 5.0000 | | |
| Cadmium, Total | ug/L | MW-13A | 05/17/2022 | ND | 5.0000 | | |
| Cadmium, Total | ug/L | MW-13A | 10/17/2022 | ND | 5.0000 | | |
| Cadmium, Total | ug/L | MW-13A | 06/08/2023 | ND | 5.0000 | | |
| Cadmium, Total | ug/L | MW-13A | 10/05/2023 | ND | 5.0000 | | |
| Cadmium, Total | ug/L | MW-13A | 05/20/2024 | ND | 5.0000 | | |

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

## Table 1

### Upgradient Data

| Constituent | Units | Well | Date | | Result | Adjusted | |
|---|---|---|---|---|---|---|---|
| Cadmium, Total | ug/L | MW-13A | 10/02/2024 | ND | 5.0000 | | |
| Cadmium, Total | ug/L | MW-13A | 05/12/2025 | ND | 5.0000 | | |
| Cadmium, Total | ug/L | MW-13A | 10/14/2025 | ND | 5.0000 | | |
| Chromium, Total | ug/L | MW-13A | 04/13/2010 | ND | 10.0000 | | |
| Chromium, Total | ug/L | MW-13A | 10/18/2010 | ND | 10.0000 | | |
| Chromium, Total | ug/L | MW-13A | 05/10/2011 | ND | 10.0000 | | |
| Chromium, Total | ug/L | MW-13A | 10/19/2011 | ND | 10.0000 | | |
| Chromium, Total | ug/L | MW-13A | 04/24/2012 | ND | 10.0000 | | |
| Chromium, Total | ug/L | MW-13A | 10/25/2012 | ND | 10.0000 | | |
| Chromium, Total | ug/L | MW-13A | 05/07/2013 | ND | 10.0000 | | |
| Chromium, Total | ug/L | MW-13A | 11/11/2013 | ND | 10.0000 | | |
| Chromium, Total | ug/L | MW-13A | 05/13/2014 | ND | 10.0000 | | |
| Chromium, Total | ug/L | MW-13A | 11/12/2014 | ND | 10.0000 | | |
| Chromium, Total | ug/L | MW-13A | 05/27/2015 | ND | 10.0000 | | |
| Chromium, Total | ug/L | MW-13A | 11/18/2015 | ND | 10.0000 | | |
| Chromium, Total | ug/L | MW-13A | 06/16/2016 | ND | 10.0000 | | |
| Chromium, Total | ug/L | MW-13A | 11/16/2016 | ND | 10.0000 | | |
| Chromium, Total | ug/L | MW-13A | 05/30/2017 | ND | 10.0000 | | |
| Chromium, Total | ug/L | MW-13A | 11/21/2017 | ND | 10.0000 | | |
| Chromium, Total | ug/L | MW-13A | 05/31/2018 | ND | 10.0000 | | |
| Chromium, Total | ug/L | MW-13A | 10/31/2018 | ND | 10.0000 | | |
| Chromium, Total | ug/L | MW-13A | 05/28/2019 | ND | 10.0000 | | |
| Chromium, Total | ug/L | MW-13A | 10/15/2019 | ND | 10.0000 | | |
| Chromium, Total | ug/L | MW-13A | 06/03/2020 | ND | 10.0000 | | |
| Chromium, Total | ug/L | MW-13A | 10/07/2020 | ND | 10.0000 | | |
| Chromium, Total | ug/L | MW-13A | 05/03/2021 | ND | 10.0000 | | |
| Chromium, Total | ug/L | MW-13A | 11/09/2021 | ND | 10.0000 | | |
| Chromium, Total | ug/L | MW-13A | 05/17/2022 | ND | 10.0000 | | |
| Chromium, Total | ug/L | MW-13A | 10/17/2022 | ND | 10.0000 | | |
| Chromium, Total | ug/L | MW-13A | 06/08/2023 | ND | 10.0000 | | |
| Chromium, Total | ug/L | MW-13A | 10/05/2023 | ND | 10.0000 | | |
| Chromium, Total | ug/L | MW-13A | 05/20/2024 | ND | 10.0000 | | |
| Chromium, Total | ug/L | MW-13A | 10/02/2024 | ND | 10.0000 | | |
| Chromium, Total | ug/L | MW-13A | 05/12/2025 | ND | 10.0000 | | |
| Chromium, Total | ug/L | MW-13A | 10/14/2025 | ND | 10.0000 | | |
| Cobalt, Total | ug/L | MW-13A | 04/13/2010 | ND | 10.0000 | 2.8000 | ** |
| Cobalt, Total | ug/L | MW-13A | 10/18/2010 | ND | 10.0000 | 2.8000 | ** |
| Cobalt, Total | ug/L | MW-13A | 05/10/2011 | ND | 10.0000 | 2.8000 | ** |
| Cobalt, Total | ug/L | MW-13A | 10/19/2011 | ND | 10.0000 | 2.8000 | ** |
| Cobalt, Total | ug/L | MW-13A | 04/24/2012 | ND | 10.0000 | 2.8000 | ** |
| Cobalt, Total | ug/L | MW-13A | 10/25/2012 | ND | 10.0000 | 2.8000 | ** |
| Cobalt, Total | ug/L | MW-13A | 05/07/2013 | ND | 10.0000 | 2.8000 | ** |
| Cobalt, Total | ug/L | MW-13A | 11/11/2013 | ND | 10.0000 | 2.8000 | ** |
| Cobalt, Total | ug/L | MW-13A | 05/13/2014 | ND | 10.0000 | 2.8000 | ** |
| Cobalt, Total | ug/L | MW-13A | 11/12/2014 | ND | 10.0000 | 2.8000 | ** |
| Cobalt, Total | ug/L | MW-13A | 05/27/2015 | ND | 2.8000 | | |
| Cobalt, Total | ug/L | MW-13A | 11/18/2015 | ND | 2.8000 | | |
| Cobalt, Total | ug/L | MW-13A | 06/16/2016 | ND | 2.8000 | | |
| Cobalt, Total | ug/L | MW-13A | 11/16/2016 | ND | 2.8000 | | |
| Cobalt, Total | ug/L | MW-13A | 05/30/2017 | ND | 2.8000 | | |
| Cobalt, Total | ug/L | MW-13A | 11/21/2017 | ND | 2.8000 | | |
| Cobalt, Total | ug/L | MW-13A | 05/31/2018 | ND | 2.8000 | | |
| Cobalt, Total | ug/L | MW-13A | 10/31/2018 | ND | 2.8000 | | |
| Cobalt, Total | ug/L | MW-13A | 05/28/2019 | ND | 2.1000 | 2.8000 | ** |
| Cobalt, Total | ug/L | MW-13A | 10/15/2019 | ND | 2.1000 | 2.8000 | ** |
| Cobalt, Total | ug/L | MW-13A | 06/03/2020 | ND | 2.0000 | 2.8000 | ** |
| Cobalt, Total | ug/L | MW-13A | 10/07/2020 | ND | 2.1000 | 2.8000 | ** |
| Cobalt, Total | ug/L | MW-13A | 05/03/2021 | | 2.8300 | | |
| Cobalt, Total | ug/L | MW-13A | 11/09/2021 | ND | 2.0000 | 2.8000 | ** |
| Cobalt, Total | ug/L | MW-13A | 05/17/2022 | ND | 2.0000 | 2.8000 | ** |
| Cobalt, Total | ug/L | MW-13A | 10/17/2022 | ND | 2.0000 | 2.8000 | ** |
| Cobalt, Total | ug/L | MW-13A | 06/08/2023 | | 4.6500 | | |
| Cobalt, Total | ug/L | MW-13A | 10/05/2023 | | 2.3700 | | |
| Cobalt, Total | ug/L | MW-13A | 05/20/2024 | | 2.1700 | | |
| Cobalt, Total | ug/L | MW-13A | 10/02/2024 | ND | 2.0000 | 2.8000 | ** |
| Cobalt, Total | ug/L | MW-13A | 05/12/2025 | | 2.3700 | | |
| Cobalt, Total | ug/L | MW-13A | 10/14/2025 | ND | 2.0000 | 2.8000 | ** |
| Copper, Total | ug/L | MW-13A | 04/13/2010 | ND | 10.0000 | | |
| Copper, Total | ug/L | MW-13A | 10/18/2010 | ND | 10.0000 | | |
| Copper, Total | ug/L | MW-13A | 05/10/2011 | ND | 10.0000 | | |
| Copper, Total | ug/L | MW-13A | 10/19/2011 | ND | 10.0000 | | |
| Copper, Total | ug/L | MW-13A | 04/24/2012 | ND | 10.0000 | | |
| Copper, Total | ug/L | MW-13A | 10/25/2012 | ND | 10.0000 | | |
| Copper, Total | ug/L | MW-13A | 05/07/2013 | ND | 10.0000 | | |

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

## Table 1

### Upgradient Data

| Constituent | Units | Well | Date | | Result | Adjusted | |
|---|---|---|---|---|---|---|---|
| Copper, Total | ug/L | MW-13A | 11/11/2013 | ND | 10.0000 | | |
| Copper, Total | ug/L | MW-13A | 05/13/2014 | ND | 10.0000 | | |
| Copper, Total | ug/L | MW-13A | 11/12/2014 | ND | 10.0000 | | |
| Copper, Total | ug/L | MW-13A | 05/27/2015 | ND | 10.0000 | | |
| Copper, Total | ug/L | MW-13A | 11/18/2015 | ND | 10.0000 | | |
| Copper, Total | ug/L | MW-13A | 06/16/2016 | ND | 10.0000 | | |
| Copper, Total | ug/L | MW-13A | 11/16/2016 | ND | 10.0000 | | |
| Copper, Total | ug/L | MW-13A | 05/30/2017 | ND | 10.0000 | | |
| Copper, Total | ug/L | MW-13A | 11/21/2017 | ND | 10.0000 | | |
| Copper, Total | ug/L | MW-13A | 05/31/2018 | ND | 10.0000 | | |
| Copper, Total | ug/L | MW-13A | 10/31/2018 | ND | 10.0000 | | |
| Copper, Total | ug/L | MW-13A | 05/28/2019 | ND | 10.0000 | | |
| Copper, Total | ug/L | MW-13A | 10/15/2019 | ND | 10.0000 | | |
| Copper, Total | ug/L | MW-13A | 06/03/2020 | ND | 10.0000 | | |
| Copper, Total | ug/L | MW-13A | 10/07/2020 | ND | 10.0000 | | |
| Copper, Total | ug/L | MW-13A | 05/03/2021 | | 11.3000 | | |
| Copper, Total | ug/L | MW-13A | 11/09/2021 | ND | 10.0000 | | |
| Copper, Total | ug/L | MW-13A | 05/17/2022 | ND | 10.0000 | | |
| Copper, Total | ug/L | MW-13A | 10/17/2022 | ND | 10.0000 | | |
| Copper, Total | ug/L | MW-13A | 06/08/2023 | ND | 10.0000 | | |
| Copper, Total | ug/L | MW-13A | 10/05/2023 | ND | 10.0000 | | |
| Copper, Total | ug/L | MW-13A | 05/20/2024 | ND | 10.0000 | | |
| Copper, Total | ug/L | MW-13A | 10/02/2024 | ND | 10.0000 | | |
| Copper, Total | ug/L | MW-13A | 05/12/2025 | ND | 10.0000 | | |
| Copper, Total | ug/L | MW-13A | 10/14/2025 | ND | 10.0000 | | |
| Lead, Total | ug/L | MW-13A | 04/13/2010 | ND | 10.0000 | | |
| Lead, Total | ug/L | MW-13A | 10/18/2010 | ND | 10.0000 | | |
| Lead, Total | ug/L | MW-13A | 05/10/2011 | ND | 10.0000 | | |
| Lead, Total | ug/L | MW-13A | 10/19/2011 | ND | 10.0000 | | |
| Lead, Total | ug/L | MW-13A | 04/24/2012 | ND | 10.0000 | | |
| Lead, Total | ug/L | MW-13A | 10/25/2012 | ND | 10.0000 | | |
| Lead, Total | ug/L | MW-13A | 05/07/2013 | ND | 10.0000 | | |
| Lead, Total | ug/L | MW-13A | 11/11/2013 | ND | 10.0000 | | |
| Lead, Total | ug/L | MW-13A | 05/13/2014 | ND | 10.0000 | | |
| Lead, Total | ug/L | MW-13A | 11/12/2014 | ND | 10.0000 | | |
| Lead, Total | ug/L | MW-13A | 05/27/2015 | ND | 10.0000 | | |
| Lead, Total | ug/L | MW-13A | 11/18/2015 | ND | 10.0000 | | |
| Lead, Total | ug/L | MW-13A | 06/16/2016 | ND | 10.0000 | | |
| Lead, Total | ug/L | MW-13A | 11/16/2016 | ND | 10.0000 | | |
| Lead, Total | ug/L | MW-13A | 05/30/2017 | ND | 10.0000 | | |
| Lead, Total | ug/L | MW-13A | 11/21/2017 | ND | 10.0000 | | |
| Lead, Total | ug/L | MW-13A | 05/31/2018 | ND | 10.0000 | | |
| Lead, Total | ug/L | MW-13A | 10/31/2018 | ND | 10.0000 | | |
| Lead, Total | ug/L | MW-13A | 05/28/2019 | ND | 10.0000 | | |
| Lead, Total | ug/L | MW-13A | 10/15/2019 | ND | 10.0000 | | |
| Lead, Total | ug/L | MW-13A | 06/03/2020 | ND | 10.0000 | | |
| Lead, Total | ug/L | MW-13A | 10/07/2020 | ND | 10.0000 | | |
| Lead, Total | ug/L | MW-13A | 05/03/2021 | ND | 10.0000 | | |
| Lead, Total | ug/L | MW-13A | 11/09/2021 | ND | 10.0000 | | |
| Lead, Total | ug/L | MW-13A | 05/17/2022 | ND | 10.0000 | | |
| Lead, Total | ug/L | MW-13A | 10/17/2022 | ND | 10.0000 | | |
| Lead, Total | ug/L | MW-13A | 06/08/2023 | ND | 10.0000 | | |
| Lead, Total | ug/L | MW-13A | 10/05/2023 | ND | 10.0000 | | |
| Lead, Total | ug/L | MW-13A | 05/20/2024 | ND | 10.0000 | | |
| Lead, Total | ug/L | MW-13A | 10/02/2024 | ND | 10.0000 | | |
| Lead, Total | ug/L | MW-13A | 05/12/2025 | ND | 10.0000 | | |
| Lead, Total | ug/L | MW-13A | 10/14/2025 | ND | 10.0000 | | |
| Nickel, Total | ug/L | MW-13A | 04/13/2010 | ND | 10.0000 | | |
| Nickel, Total | ug/L | MW-13A | 10/18/2010 | ND | 10.0000 | | |
| Nickel, Total | ug/L | MW-13A | 05/10/2011 | ND | 10.0000 | | |
| Nickel, Total | ug/L | MW-13A | 10/19/2011 | ND | 10.0000 | | |
| Nickel, Total | ug/L | MW-13A | 04/24/2012 | ND | 10.0000 | | |
| Nickel, Total | ug/L | MW-13A | 10/25/2012 | ND | 10.0000 | | |
| Nickel, Total | ug/L | MW-13A | 05/07/2013 | ND | 10.0000 | | |
| Nickel, Total | ug/L | MW-13A | 11/11/2013 | ND | 10.0000 | | |
| Nickel, Total | ug/L | MW-13A | 05/13/2014 | ND | 10.0000 | | |
| Nickel, Total | ug/L | MW-13A | 11/12/2014 | ND | 10.0000 | | |
| Nickel, Total | ug/L | MW-13A | 05/27/2015 | ND | 10.0000 | | |
| Nickel, Total | ug/L | MW-13A | 11/18/2015 | ND | 10.0000 | | |
| Nickel, Total | ug/L | MW-13A | 06/16/2016 | ND | 10.0000 | | |
| Nickel, Total | ug/L | MW-13A | 11/16/2016 | ND | 10.0000 | | |
| Nickel, Total | ug/L | MW-13A | 05/30/2017 | ND | 10.0000 | | |
| Nickel, Total | ug/L | MW-13A | 11/21/2017 | ND | 10.0000 | | |
| Nickel, Total | ug/L | MW-13A | 05/31/2018 | ND | 10.0000 | | |

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

## Table 1

### Upgradient Data

| Constituent | Units | Well | Date | | Result | Adjusted | |
|---|---|---|---|---|---|---|---|
| Nickel, Total | ug/L | MW-13A | 10/31/2018 | ND | 10.0000 | | |
| Nickel, Total | ug/L | MW-13A | 05/28/2019 | ND | 10.0000 | | |
| Nickel, Total | ug/L | MW-13A | 10/15/2019 | ND | 10.0000 | | |
| Nickel, Total | ug/L | MW-13A | 06/03/2020 | ND | 10.0000 | | |
| Nickel, Total | ug/L | MW-13A | 10/07/2020 | ND | 10.0000 | | |
| Nickel, Total | ug/L | MW-13A | 05/03/2021 | ND | 10.0000 | | |
| Nickel, Total | ug/L | MW-13A | 11/09/2021 | ND | 10.0000 | | |
| Nickel, Total | ug/L | MW-13A | 05/17/2022 | ND | 10.0000 | | |
| Nickel, Total | ug/L | MW-13A | 10/17/2022 | ND | 10.0000 | | |
| Nickel, Total | ug/L | MW-13A | 06/08/2023 | ND | 10.0000 | | |
| Nickel, Total | ug/L | MW-13A | 10/05/2023 | ND | 10.0000 | | |
| Nickel, Total | ug/L | MW-13A | 05/20/2024 | ND | 10.0000 | | |
| Nickel, Total | ug/L | MW-13A | 10/02/2024 | ND | 10.0000 | | |
| Nickel, Total | ug/L | MW-13A | 05/12/2025 | ND | 10.0000 | | |
| Nickel, Total | ug/L | MW-13A | 10/14/2025 | ND | 10.0000 | | |
| Selenium, Total | ug/L | MW-13A | 04/13/2010 | ND | 10.0000 | | |
| Selenium, Total | ug/L | MW-13A | 10/18/2010 | ND | 10.0000 | | |
| Selenium, Total | ug/L | MW-13A | 05/10/2011 | ND | 10.0000 | | |
| Selenium, Total | ug/L | MW-13A | 10/19/2011 | ND | 10.0000 | | |
| Selenium, Total | ug/L | MW-13A | 04/24/2012 | ND | 10.0000 | | |
| Selenium, Total | ug/L | MW-13A | 10/25/2012 | ND | 10.0000 | | |
| Selenium, Total | ug/L | MW-13A | 05/07/2013 | ND | 10.0000 | | |
| Selenium, Total | ug/L | MW-13A | 11/11/2013 | ND | 10.0000 | | |
| Selenium, Total | ug/L | MW-13A | 05/13/2014 | ND | 10.0000 | | |
| Selenium, Total | ug/L | MW-13A | 11/12/2014 | ND | 10.0000 | | |
| Selenium, Total | ug/L | MW-13A | 05/27/2015 | ND | 10.0000 | | |
| Selenium, Total | ug/L | MW-13A | 11/18/2015 | ND | 10.0000 | | |
| Selenium, Total | ug/L | MW-13A | 06/16/2016 | ND | 10.0000 | | |
| Selenium, Total | ug/L | MW-13A | 11/16/2016 | ND | 10.0000 | | |
| Selenium, Total | ug/L | MW-13A | 05/30/2017 | ND | 10.0000 | | |
| Selenium, Total | ug/L | MW-13A | 11/21/2017 | ND | 10.0000 | | |
| Selenium, Total | ug/L | MW-13A | 05/31/2018 | ND | 10.0000 | | |
| Selenium, Total | ug/L | MW-13A | 10/31/2018 | ND | 10.0000 | | |
| Selenium, Total | ug/L | MW-13A | 05/28/2019 | ND | 10.0000 | | |
| Selenium, Total | ug/L | MW-13A | 10/15/2019 | ND | 10.0000 | | |
| Selenium, Total | ug/L | MW-13A | 06/03/2020 | ND | 10.0000 | | |
| Selenium, Total | ug/L | MW-13A | 10/07/2020 | ND | 10.0000 | | |
| Selenium, Total | ug/L | MW-13A | 05/03/2021 | ND | 10.0000 | | |
| Selenium, Total | ug/L | MW-13A | 11/09/2021 | ND | 10.0000 | | |
| Selenium, Total | ug/L | MW-13A | 05/17/2022 | ND | 10.0000 | | |
| Selenium, Total | ug/L | MW-13A | 10/17/2022 | ND | 10.0000 | | |
| Selenium, Total | ug/L | MW-13A | 06/08/2023 | ND | 10.0000 | | |
| Selenium, Total | ug/L | MW-13A | 10/05/2023 | ND | 10.0000 | | |
| Selenium, Total | ug/L | MW-13A | 05/20/2024 | ND | 10.0000 | | |
| Selenium, Total | ug/L | MW-13A | 10/02/2024 | ND | 10.0000 | | |
| Selenium, Total | ug/L | MW-13A | 05/12/2025 | ND | 10.0000 | | |
| Selenium, Total | ug/L | MW-13A | 10/14/2025 | ND | 10.0000 | | |
| Silver, Total | ug/L | MW-13A | 04/13/2010 | ND | 10.0000 | | |
| Silver, Total | ug/L | MW-13A | 10/18/2010 | ND | 10.0000 | | |
| Silver, Total | ug/L | MW-13A | 05/10/2011 | ND | 10.0000 | | |
| Silver, Total | ug/L | MW-13A | 10/19/2011 | ND | 10.0000 | | |
| Silver, Total | ug/L | MW-13A | 04/24/2012 | ND | 10.0000 | | |
| Silver, Total | ug/L | MW-13A | 10/25/2012 | ND | 10.0000 | | |
| Silver, Total | ug/L | MW-13A | 05/07/2013 | ND | 10.0000 | | |
| Silver, Total | ug/L | MW-13A | 11/11/2013 | ND | 10.0000 | | |
| Silver, Total | ug/L | MW-13A | 05/13/2014 | ND | 10.0000 | | |
| Silver, Total | ug/L | MW-13A | 11/12/2014 | ND | 10.0000 | | |
| Silver, Total | ug/L | MW-13A | 05/27/2015 | ND | 10.0000 | | |
| Silver, Total | ug/L | MW-13A | 11/18/2015 | ND | 10.0000 | | |
| Silver, Total | ug/L | MW-13A | 06/16/2016 | ND | 10.0000 | | |
| Silver, Total | ug/L | MW-13A | 11/16/2016 | ND | 10.0000 | | |
| Silver, Total | ug/L | MW-13A | 05/30/2017 | ND | 10.0000 | | |
| Silver, Total | ug/L | MW-13A | 11/21/2017 | ND | 10.0000 | | |
| Silver, Total | ug/L | MW-13A | 05/31/2018 | ND | 10.0000 | | |
| Silver, Total | ug/L | MW-13A | 10/31/2018 | ND | 10.0000 | | |
| Silver, Total | ug/L | MW-13A | 05/28/2019 | ND | 10.0000 | | |
| Silver, Total | ug/L | MW-13A | 10/15/2019 | ND | 10.0000 | | |
| Silver, Total | ug/L | MW-13A | 06/03/2020 | ND | 10.0000 | | |
| Silver, Total | ug/L | MW-13A | 10/07/2020 | ND | 10.0000 | | |
| Silver, Total | ug/L | MW-13A | 05/03/2021 | ND | 10.0000 | | |
| Silver, Total | ug/L | MW-13A | 11/09/2021 | ND | 10.0000 | | |
| Silver, Total | ug/L | MW-13A | 05/17/2022 | ND | 10.0000 | | |
| Silver, Total | ug/L | MW-13A | 10/17/2022 | ND | 10.0000 | | |
| Silver, Total | ug/L | MW-13A | 06/08/2023 | ND | 10.0000 | | |

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

## Table 1

### Upgradient Data

| Constituent | Units | Well | Date | | Result | Adjusted | |
|---|---|---|---|---|---|---|---|
| Silver, Total | ug/L | MW-13A | 10/05/2023 | ND | 10.0000 | | |
| Silver, Total | ug/L | MW-13A | 05/20/2024 | ND | 10.0000 | | |
| Silver, Total | ug/L | MW-13A | 10/02/2024 | ND | 10.0000 | | |
| Silver, Total | ug/L | MW-13A | 05/12/2025 | ND | 10.0000 | | |
| Silver, Total | ug/L | MW-13A | 10/14/2025 | ND | 10.0000 | | |
| Thallium, Total | ug/L | MW-13A | 04/13/2010 | ND | 2.0000 | | |
| Thallium, Total | ug/L | MW-13A | 10/18/2010 | ND | 2.0000 | | |
| Thallium, Total | ug/L | MW-13A | 05/10/2011 | ND | 2.0000 | | |
| Thallium, Total | ug/L | MW-13A | 10/19/2011 | ND | 2.0000 | | |
| Thallium, Total | ug/L | MW-13A | 04/24/2012 | ND | 2.0000 | | |
| Thallium, Total | ug/L | MW-13A | 10/25/2012 | ND | 2.0000 | | |
| Thallium, Total | ug/L | MW-13A | 05/07/2013 | ND | 2.0000 | | |
| Thallium, Total | ug/L | MW-13A | 11/11/2013 | ND | 2.0000 | | |
| Thallium, Total | ug/L | MW-13A | 05/13/2014 | ND | 2.0000 | | |
| Thallium, Total | ug/L | MW-13A | 11/12/2014 | ND | 2.0000 | | |
| Thallium, Total | ug/L | MW-13A | 05/27/2015 | ND | 2.0000 | | |
| Thallium, Total | ug/L | MW-13A | 11/18/2015 | ND | 2.0000 | | |
| Thallium, Total | ug/L | MW-13A | 06/16/2016 | ND | 2.0000 | | |
| Thallium, Total | ug/L | MW-13A | 11/16/2016 | ND | 2.0000 | | |
| Thallium, Total | ug/L | MW-13A | 05/30/2017 | ND | 2.0000 | | |
| Thallium, Total | ug/L | MW-13A | 11/21/2017 | ND | 2.0000 | | |
| Thallium, Total | ug/L | MW-13A | 05/31/2018 | ND | 2.0000 | | |
| Thallium, Total | ug/L | MW-13A | 10/31/2018 | ND | 2.0000 | | |
| Thallium, Total | ug/L | MW-13A | 05/28/2019 | ND | 2.0000 | | |
| Thallium, Total | ug/L | MW-13A | 10/15/2019 | ND | 2.0000 | | |
| Thallium, Total | ug/L | MW-13A | 06/03/2020 | ND | 2.0000 | | |
| Thallium, Total | ug/L | MW-13A | 10/07/2020 | ND | 2.0000 | | |
| Thallium, Total | ug/L | MW-13A | 05/03/2021 | ND | 2.0000 | | |
| Thallium, Total | ug/L | MW-13A | 11/09/2021 | ND | 2.0000 | | |
| Thallium, Total | ug/L | MW-13A | 05/17/2022 | ND | 2.0000 | | |
| Thallium, Total | ug/L | MW-13A | 10/17/2022 | ND | 2.0000 | | |
| Thallium, Total | ug/L | MW-13A | 06/08/2023 | ND | 2.0000 | | |
| Thallium, Total | ug/L | MW-13A | 10/05/2023 | ND | 2.0000 | | |
| Thallium, Total | ug/L | MW-13A | 05/20/2024 | ND | 2.0000 | | |
| Thallium, Total | ug/L | MW-13A | 10/02/2024 | ND | 2.0000 | | |
| Thallium, Total | ug/L | MW-13A | 05/12/2025 | ND | 2.0000 | | |
| Thallium, Total | ug/L | MW-13A | 10/14/2025 | ND | 2.0000 | | |
| Vanadium, Total | ug/L | MW-13A | 04/13/2010 | ND | 20.0000 | | |
| Vanadium, Total | ug/L | MW-13A | 10/18/2010 | ND | 20.0000 | | |
| Vanadium, Total | ug/L | MW-13A | 05/10/2011 | ND | 20.0000 | | |
| Vanadium, Total | ug/L | MW-13A | 10/19/2011 | ND | 20.0000 | | |
| Vanadium, Total | ug/L | MW-13A | 04/24/2012 | ND | 20.0000 | | |
| Vanadium, Total | ug/L | MW-13A | 10/25/2012 | ND | 20.0000 | | |
| Vanadium, Total | ug/L | MW-13A | 05/07/2013 | ND | 20.0000 | | |
| Vanadium, Total | ug/L | MW-13A | 11/11/2013 | ND | 20.0000 | | |
| Vanadium, Total | ug/L | MW-13A | 05/13/2014 | ND | 20.0000 | | |
| Vanadium, Total | ug/L | MW-13A | 11/12/2014 | ND | 20.0000 | | |
| Vanadium, Total | ug/L | MW-13A | 05/27/2015 | ND | 20.0000 | | |
| Vanadium, Total | ug/L | MW-13A | 11/18/2015 | ND | 20.0000 | | |
| Vanadium, Total | ug/L | MW-13A | 06/16/2016 | ND | 20.0000 | | |
| Vanadium, Total | ug/L | MW-13A | 11/16/2016 | ND | 20.0000 | | |
| Vanadium, Total | ug/L | MW-13A | 05/30/2017 | ND | 20.0000 | | |
| Vanadium, Total | ug/L | MW-13A | 11/21/2017 | ND | 20.0000 | | |
| Vanadium, Total | ug/L | MW-13A | 05/31/2018 | ND | 20.0000 | | |
| Vanadium, Total | ug/L | MW-13A | 10/31/2018 | ND | 20.0000 | | |
| Vanadium, Total | ug/L | MW-13A | 05/28/2019 | ND | 20.0000 | | |
| Vanadium, Total | ug/L | MW-13A | 10/15/2019 | ND | 20.0000 | | |
| Vanadium, Total | ug/L | MW-13A | 06/03/2020 | ND | 20.0000 | | |
| Vanadium, Total | ug/L | MW-13A | 10/07/2020 | ND | 20.0000 | | |
| Vanadium, Total | ug/L | MW-13A | 05/03/2021 | ND | 20.0000 | | |
| Vanadium, Total | ug/L | MW-13A | 11/09/2021 | ND | 20.0000 | | |
| Vanadium, Total | ug/L | MW-13A | 05/17/2022 | ND | 20.0000 | | |
| Vanadium, Total | ug/L | MW-13A | 10/17/2022 | ND | 20.0000 | | |
| Vanadium, Total | ug/L | MW-13A | 06/08/2023 | ND | 20.0000 | | |
| Vanadium, Total | ug/L | MW-13A | 10/05/2023 | ND | 20.0000 | | |
| Vanadium, Total | ug/L | MW-13A | 05/20/2024 | ND | 20.0000 | | |
| Vanadium, Total | ug/L | MW-13A | 10/02/2024 | ND | 20.0000 | | |
| Vanadium, Total | ug/L | MW-13A | 05/12/2025 | ND | 20.0000 | | |
| Vanadium, Total | ug/L | MW-13A | 10/14/2025 | ND | 20.0000 | | |
| Zinc, Total | ug/L | MW-13A | 04/13/2010 | ND | 20.0000 | | |
| Zinc, Total | ug/L | MW-13A | 10/18/2010 | ND | 20.0000 | | |
| Zinc, Total | ug/L | MW-13A | 05/10/2011 | ND | 20.0000 | | |
| Zinc, Total | ug/L | MW-13A | 10/19/2011 | ND | 20.0000 | | |
| Zinc, Total | ug/L | MW-13A | 04/24/2012 | ND | 20.0000 | | |

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

## Table 1

### Upgradient Data

| Constituent | Units | Well | Date | | Result | Adjusted | |
|---|---|---|---|---|---|---|---|
| Zinc, Total | ug/L | MW-13A | 10/25/2012 | ND | 20.0000 | | |
| Zinc, Total | ug/L | MW-13A | 05/07/2013 | ND | 20.0000 | | |
| Zinc, Total | ug/L | MW-13A | 11/11/2013 | ND | 20.0000 | | |
| Zinc, Total | ug/L | MW-13A | 05/13/2014 | ND | 20.0000 | | |
| Zinc, Total | ug/L | MW-13A | 11/12/2014 | ND | 20.0000 | | |
| Zinc, Total | ug/L | MW-13A | 05/27/2015 | ND | 20.0000 | | |
| Zinc, Total | ug/L | MW-13A | 11/18/2015 | ND | 20.0000 | | |
| Zinc, Total | ug/L | MW-13A | 06/16/2016 | ND | 20.0000 | | |
| Zinc, Total | ug/L | MW-13A | 11/16/2016 | ND | 20.0000 | | |
| Zinc, Total | ug/L | MW-13A | 05/30/2017 | ND | 20.0000 | | |
| Zinc, Total | ug/L | MW-13A | 11/21/2017 | ND | 20.0000 | | |
| Zinc, Total | ug/L | MW-13A | 05/31/2018 | ND | 20.0000 | | |
| Zinc, Total | ug/L | MW-13A | 10/31/2018 | ND | 20.0000 | | |
| Zinc, Total | ug/L | MW-13A | 05/28/2019 | ND | 20.0000 | | |
| Zinc, Total | ug/L | MW-13A | 10/15/2019 | ND | 20.0000 | | |
| Zinc, Total | ug/L | MW-13A | 06/03/2020 | ND | 50.0000 | 20.0000 | ** |
| Zinc, Total | ug/L | MW-13A | 10/07/2020 | ND | 50.0000 | 20.0000 | ** |
| Zinc, Total | ug/L | MW-13A | 05/03/2021 | ND | 50.0000 | 20.0000 | ** |
| Zinc, Total | ug/L | MW-13A | 11/09/2021 | ND | 50.0000 | 20.0000 | ** |
| Zinc, Total | ug/L | MW-13A | 05/17/2022 | ND | 50.0000 | 20.0000 | ** |
| Zinc, Total | ug/L | MW-13A | 10/17/2022 | ND | 50.0000 | 20.0000 | ** |
| Zinc, Total | ug/L | MW-13A | 06/08/2023 | ND | 50.0000 | 20.0000 | ** |
| Zinc, Total | ug/L | MW-13A | 10/05/2023 | ND | 50.0000 | 20.0000 | ** |
| Zinc, Total | ug/L | MW-13A | 05/20/2024 | ND | 50.0000 | 20.0000 | ** |
| Zinc, Total | ug/L | MW-13A | 10/02/2024 | ND | 50.0000 | 20.0000 | ** |
| Zinc, Total | ug/L | MW-13A | 05/12/2025 | ND | 50.0000 | 20.0000 | ** |
| Zinc, Total | ug/L | MW-13A | 10/14/2025 | ND | 50.0000 | 20.0000 | ** |
| Antimony, Total | ug/L | MW-34A | 04/13/2010 | ND | 6.8000 | 6.0000 | ** |
| Antimony, Total | ug/L | MW-34A | 05/18/2010 | ND | 6.8000 | 6.0000 | ** |
| Antimony, Total | ug/L | MW-34A | 06/21/2010 | ND | 6.8000 | 6.0000 | ** |
| Antimony, Total | ug/L | MW-34A | 08/18/2010 | ND | 6.8000 | 6.0000 | ** |
| Antimony, Total | ug/L | MW-34A | 10/18/2010 | ND | 6.8000 | 6.0000 | ** |
| Antimony, Total | ug/L | MW-34A | 05/10/2011 | ND | 6.0000 | | |
| Antimony, Total | ug/L | MW-34A | 10/19/2011 | ND | 6.0000 | | |
| Antimony, Total | ug/L | MW-34A | 04/24/2012 | ND | 6.0000 | | |
| Antimony, Total | ug/L | MW-34A | 10/25/2012 | ND | 6.0000 | | |
| Antimony, Total | ug/L | MW-34A | 05/07/2013 | ND | 6.0000 | | |
| Antimony, Total | ug/L | MW-34A | 11/11/2013 | ND | 6.0000 | | |
| Antimony, Total | ug/L | MW-34A | 05/13/2014 | ND | 6.0000 | | |
| Antimony, Total | ug/L | MW-34A | 11/12/2014 | ND | 6.0000 | | |
| Antimony, Total | ug/L | MW-34A | 05/27/2015 | ND | 6.0000 | | |
| Antimony, Total | ug/L | MW-34A | 11/18/2015 | ND | 6.0000 | | |
| Antimony, Total | ug/L | MW-34A | 06/16/2016 | ND | 6.0000 | | |
| Antimony, Total | ug/L | MW-34A | 11/16/2016 | ND | 6.0000 | | |
| Antimony, Total | ug/L | MW-34A | 05/30/2017 | ND | 6.0000 | | |
| Antimony, Total | ug/L | MW-34A | 11/21/2017 | ND | 6.0000 | | |
| Antimony, Total | ug/L | MW-34A | 05/31/2018 | ND | 6.0000 | | |
| Antimony, Total | ug/L | MW-34A | 10/31/2018 | ND | 6.0000 | | |
| Antimony, Total | ug/L | MW-34A | 05/28/2019 | ND | 6.0000 | | |
| Antimony, Total | ug/L | MW-34A | 10/15/2019 | ND | 6.0000 | | |
| Antimony, Total | ug/L | MW-34A | 06/03/2020 | ND | 6.0000 | | |
| Antimony, Total | ug/L | MW-34A | 05/03/2021 | ND | 6.0000 | | |
| Antimony, Total | ug/L | MW-34A | 01/13/2022 | ND | 6.0000 | | |
| Antimony, Total | ug/L | MW-34A | 05/17/2022 | ND | 6.0000 | | |
| Antimony, Total | ug/L | MW-34A | 10/17/2022 | ND | 6.0000 | | |
| Antimony, Total | ug/L | MW-34A | 05/22/2023 | ND | 6.0000 | | |
| Antimony, Total | ug/L | MW-34A | 05/12/2025 | ND | 6.0000 | | |
| Antimony, Total | ug/L | MW-34A | 11/24/2025 | ND | 6.0000 | | |
| Arsenic, Total | ug/L | MW-34A | 04/13/2010 | ND | 10.0000 | | |
| Arsenic, Total | ug/L | MW-34A | 05/18/2010 | ND | 10.0000 | | |
| Arsenic, Total | ug/L | MW-34A | 06/21/2010 | ND | 10.0000 | | |
| Arsenic, Total | ug/L | MW-34A | 08/18/2010 | ND | 10.0000 | | |
| Arsenic, Total | ug/L | MW-34A | 10/18/2010 | ND | 10.0000 | | |
| Arsenic, Total | ug/L | MW-34A | 05/10/2011 | ND | 10.0000 | | |
| Arsenic, Total | ug/L | MW-34A | 10/19/2011 | ND | 10.0000 | | |
| Arsenic, Total | ug/L | MW-34A | 04/24/2012 | ND | 10.0000 | | |
| Arsenic, Total | ug/L | MW-34A | 10/25/2012 | ND | 10.0000 | | |
| Arsenic, Total | ug/L | MW-34A | 05/07/2013 | ND | 10.0000 | | |
| Arsenic, Total | ug/L | MW-34A | 11/11/2013 | ND | 10.0000 | | |
| Arsenic, Total | ug/L | MW-34A | 05/13/2014 | ND | 10.0000 | | |
| Arsenic, Total | ug/L | MW-34A | 11/12/2014 | ND | 10.0000 | | |
| Arsenic, Total | ug/L | MW-34A | 05/27/2015 | ND | 10.0000 | | |
| Arsenic, Total | ug/L | MW-34A | 11/18/2015 | ND | 10.0000 | | |
| Arsenic, Total | ug/L | MW-34A | 06/16/2016 | ND | 10.0000 | | |

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

## Table 1

### Upgradient Data

| Constituent | Units | Well | Date | | Result | Adjusted | |
|---|---|---|---|---|---|---|---|
| Arsenic, Total | ug/L | MW-34A | 11/16/2016 | ND | 10.0000 | | |
| Arsenic, Total | ug/L | MW-34A | 05/30/2017 | ND | 10.0000 | | |
| Arsenic, Total | ug/L | MW-34A | 11/21/2017 | ND | 10.0000 | | |
| Arsenic, Total | ug/L | MW-34A | 05/31/2018 | ND | 10.0000 | | |
| Arsenic, Total | ug/L | MW-34A | 10/31/2018 | ND | 10.0000 | | |
| Arsenic, Total | ug/L | MW-34A | 05/28/2019 | ND | 10.0000 | | |
| Arsenic, Total | ug/L | MW-34A | 10/15/2019 | ND | 10.0000 | | |
| Arsenic, Total | ug/L | MW-34A | 06/03/2020 | ND | 10.0000 | | |
| Arsenic, Total | ug/L | MW-34A | 05/03/2021 | ND | 10.0000 | | |
| Arsenic, Total | ug/L | MW-34A | 01/13/2022 | ND | 10.0000 | | |
| Arsenic, Total | ug/L | MW-34A | 05/17/2022 | ND | 10.0000 | | |
| Arsenic, Total | ug/L | MW-34A | 10/17/2022 | ND | 10.0000 | | |
| Arsenic, Total | ug/L | MW-34A | 05/22/2023 | ND | 10.0000 | | |
| Arsenic, Total | ug/L | MW-34A | 05/12/2025 | ND | 10.0000 | | |
| Arsenic, Total | ug/L | MW-34A | 11/24/2025 | ND | 10.0000 | | |
| Barium, Total | ug/L | MW-34A | 04/13/2010 | | 33.0000 | | |
| Barium, Total | ug/L | MW-34A | 05/18/2010 | | 34.6000 | | |
| Barium, Total | ug/L | MW-34A | 06/21/2010 | | 37.5000 | | |
| Barium, Total | ug/L | MW-34A | 08/18/2010 | | 35.4000 | | |
| Barium, Total | ug/L | MW-34A | 10/18/2010 | | 39.9000 | | |
| Barium, Total | ug/L | MW-34A | 05/10/2011 | | 35.0000 | | |
| Barium, Total | ug/L | MW-34A | 10/19/2011 | | 50.0000 | | |
| Barium, Total | ug/L | MW-34A | 04/24/2012 | | 38.0000 | | |
| Barium, Total | ug/L | MW-34A | 10/25/2012 | | 36.0000 | | |
| Barium, Total | ug/L | MW-34A | 05/07/2013 | | 33.0000 | | |
| Barium, Total | ug/L | MW-34A | 11/11/2013 | | 38.0000 | | |
| Barium, Total | ug/L | MW-34A | 05/13/2014 | | 30.0000 | | |
| Barium, Total | ug/L | MW-34A | 11/12/2014 | | 37.0000 | | |
| Barium, Total | ug/L | MW-34A | 05/27/2015 | | 31.0000 | | |
| Barium, Total | ug/L | MW-34A | 11/18/2015 | | 31.0000 | | |
| Barium, Total | ug/L | MW-34A | 06/16/2016 | | 37.0000 | | |
| Barium, Total | ug/L | MW-34A | 11/16/2016 | | 39.0000 | | |
| Barium, Total | ug/L | MW-34A | 05/30/2017 | | 43.0000 | | |
| Barium, Total | ug/L | MW-34A | 11/21/2017 | | 310.0000 | | |
| Barium, Total | ug/L | MW-34A | 05/31/2018 | | 220.0000 | | |
| Barium, Total | ug/L | MW-34A | 10/31/2018 | | 150.0000 | | |
| Barium, Total | ug/L | MW-34A | 05/28/2019 | | 190.0000 | | |
| Barium, Total | ug/L | MW-34A | 10/15/2019 | | 180.0000 | | |
| Barium, Total | ug/L | MW-34A | 06/03/2020 | | 196.0000 | | |
| Barium, Total | ug/L | MW-34A | 05/03/2021 | | 35.7000 | | |
| Barium, Total | ug/L | MW-34A | 01/13/2022 | | 35.1000 | | |
| Barium, Total | ug/L | MW-34A | 05/17/2022 | | 235.0000 | | |
| Barium, Total | ug/L | MW-34A | 10/17/2022 | | 297.0000 | | |
| Barium, Total | ug/L | MW-34A | 05/22/2023 | | 186.0000 | | |
| Barium, Total | ug/L | MW-34A | 05/12/2025 | | 43.7000 | | |
| Barium, Total | ug/L | MW-34A | 11/24/2025 | | 39.3000 | | |
| Beryllium, Total | ug/L | MW-34A | 04/13/2010 | ND | 4.0000 | | |
| Beryllium, Total | ug/L | MW-34A | 05/18/2010 | ND | 4.0000 | | |
| Beryllium, Total | ug/L | MW-34A | 06/21/2010 | ND | 4.0000 | | |
| Beryllium, Total | ug/L | MW-34A | 08/18/2010 | ND | 4.0000 | | |
| Beryllium, Total | ug/L | MW-34A | 10/18/2010 | ND | 4.0000 | | |
| Beryllium, Total | ug/L | MW-34A | 05/10/2011 | ND | 4.0000 | | |
| Beryllium, Total | ug/L | MW-34A | 10/19/2011 | ND | 4.0000 | | |
| Beryllium, Total | ug/L | MW-34A | 04/24/2012 | ND | 4.0000 | | |
| Beryllium, Total | ug/L | MW-34A | 10/25/2012 | ND | 4.0000 | | |
| Beryllium, Total | ug/L | MW-34A | 05/07/2013 | ND | 4.0000 | | |
| Beryllium, Total | ug/L | MW-34A | 11/11/2013 | ND | 4.0000 | | |
| Beryllium, Total | ug/L | MW-34A | 05/13/2014 | ND | 4.0000 | | |
| Beryllium, Total | ug/L | MW-34A | 11/12/2014 | ND | 4.0000 | | |
| Beryllium, Total | ug/L | MW-34A | 05/27/2015 | ND | 4.0000 | | |
| Beryllium, Total | ug/L | MW-34A | 11/18/2015 | ND | 4.0000 | | |
| Beryllium, Total | ug/L | MW-34A | 06/16/2016 | ND | 4.0000 | | |
| Beryllium, Total | ug/L | MW-34A | 11/16/2016 | ND | 4.0000 | | |
| Beryllium, Total | ug/L | MW-34A | 05/30/2017 | ND | 4.0000 | | |
| Beryllium, Total | ug/L | MW-34A | 11/21/2017 | ND | 4.0000 | | |
| Beryllium, Total | ug/L | MW-34A | 05/31/2018 | ND | 4.0000 | | |
| Beryllium, Total | ug/L | MW-34A | 10/31/2018 | ND | 4.0000 | | |
| Beryllium, Total | ug/L | MW-34A | 05/28/2019 | ND | 4.0000 | | |
| Beryllium, Total | ug/L | MW-34A | 10/15/2019 | ND | 4.0000 | | |
| Beryllium, Total | ug/L | MW-34A | 06/03/2020 | ND | 4.0000 | | |
| Beryllium, Total | ug/L | MW-34A | 05/03/2021 | ND | 4.0000 | | |
| Beryllium, Total | ug/L | MW-34A | 01/13/2022 | ND | 4.0000 | | |
| Beryllium, Total | ug/L | MW-34A | 05/17/2022 | ND | 4.0000 | | |
| Beryllium, Total | ug/L | MW-34A | 10/17/2022 | ND | 4.0000 | | |

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

## Table 1

### Upgradient Data

| Constituent | Units | Well | Date | | Result | Adjusted | |
|---|---|---|---|---|---|---|---|
| Beryllium, Total | ug/L | MW-34A | 05/22/2023 | ND | 4.0000 | | |
| Beryllium, Total | ug/L | MW-34A | 05/12/2025 | ND | 4.0000 | | |
| Beryllium, Total | ug/L | MW-34A | 11/24/2025 | ND | 4.0000 | | |
| Cadmium, Total | ug/L | MW-34A | 04/13/2010 | ND | 5.0000 | | |
| Cadmium, Total | ug/L | MW-34A | 05/18/2010 | ND | 5.0000 | | |
| Cadmium, Total | ug/L | MW-34A | 06/21/2010 | ND | 5.0000 | | |
| Cadmium, Total | ug/L | MW-34A | 08/18/2010 | ND | 5.0000 | | |
| Cadmium, Total | ug/L | MW-34A | 10/18/2010 | ND | 5.0000 | | |
| Cadmium, Total | ug/L | MW-34A | 05/10/2011 | ND | 5.0000 | | |
| Cadmium, Total | ug/L | MW-34A | 10/19/2011 | ND | 5.0000 | | |
| Cadmium, Total | ug/L | MW-34A | 04/24/2012 | ND | 5.0000 | | |
| Cadmium, Total | ug/L | MW-34A | 10/25/2012 | ND | 5.0000 | | |
| Cadmium, Total | ug/L | MW-34A | 05/07/2013 | ND | 5.0000 | | |
| Cadmium, Total | ug/L | MW-34A | 11/11/2013 | ND | 5.0000 | | |
| Cadmium, Total | ug/L | MW-34A | 05/13/2014 | ND | 5.0000 | | |
| Cadmium, Total | ug/L | MW-34A | 11/12/2014 | ND | 5.0000 | | |
| Cadmium, Total | ug/L | MW-34A | 05/27/2015 | ND | 5.0000 | | |
| Cadmium, Total | ug/L | MW-34A | 11/18/2015 | ND | 5.0000 | | |
| Cadmium, Total | ug/L | MW-34A | 06/16/2016 | ND | 5.0000 | | |
| Cadmium, Total | ug/L | MW-34A | 11/16/2016 | ND | 5.0000 | | |
| Cadmium, Total | ug/L | MW-34A | 05/30/2017 | ND | 5.0000 | | |
| Cadmium, Total | ug/L | MW-34A | 11/21/2017 | ND | 5.0000 | | |
| Cadmium, Total | ug/L | MW-34A | 05/31/2018 | ND | 5.0000 | | |
| Cadmium, Total | ug/L | MW-34A | 10/31/2018 | ND | 5.0000 | | |
| Cadmium, Total | ug/L | MW-34A | 05/28/2019 | ND | 5.0000 | | |
| Cadmium, Total | ug/L | MW-34A | 10/15/2019 | ND | 5.0000 | | |
| Cadmium, Total | ug/L | MW-34A | 06/03/2020 | ND | 5.0000 | | |
| Cadmium, Total | ug/L | MW-34A | 05/03/2021 | ND | 5.0000 | | |
| Cadmium, Total | ug/L | MW-34A | 01/13/2022 | ND | 5.0000 | | |
| Cadmium, Total | ug/L | MW-34A | 05/17/2022 | ND | 5.0000 | | |
| Cadmium, Total | ug/L | MW-34A | 10/17/2022 | ND | 5.0000 | | |
| Cadmium, Total | ug/L | MW-34A | 05/22/2023 | ND | 5.0000 | | |
| Cadmium, Total | ug/L | MW-34A | 05/12/2025 | ND | 5.0000 | | |
| Cadmium, Total | ug/L | MW-34A | 11/24/2025 | ND | 5.0000 | | |
| Chromium, Total | ug/L | MW-34A | 04/13/2010 | ND | 10.0000 | | |
| Chromium, Total | ug/L | MW-34A | 05/18/2010 | ND | 10.0000 | | |
| Chromium, Total | ug/L | MW-34A | 06/21/2010 | ND | 10.0000 | | |
| Chromium, Total | ug/L | MW-34A | 08/18/2010 | ND | 10.0000 | | |
| Chromium, Total | ug/L | MW-34A | 10/18/2010 | ND | 10.0000 | | |
| Chromium, Total | ug/L | MW-34A | 05/10/2011 | ND | 10.0000 | | |
| Chromium, Total | ug/L | MW-34A | 10/19/2011 | ND | 10.0000 | | |
| Chromium, Total | ug/L | MW-34A | 04/24/2012 | ND | 10.0000 | | |
| Chromium, Total | ug/L | MW-34A | 10/25/2012 | ND | 10.0000 | | |
| Chromium, Total | ug/L | MW-34A | 05/07/2013 | ND | 10.0000 | | |
| Chromium, Total | ug/L | MW-34A | 11/11/2013 | ND | 10.0000 | | |
| Chromium, Total | ug/L | MW-34A | 05/13/2014 | ND | 10.0000 | | |
| Chromium, Total | ug/L | MW-34A | 11/12/2014 | ND | 10.0000 | | |
| Chromium, Total | ug/L | MW-34A | 05/27/2015 | ND | 10.0000 | | |
| Chromium, Total | ug/L | MW-34A | 11/18/2015 | ND | 10.0000 | | |
| Chromium, Total | ug/L | MW-34A | 06/16/2016 | ND | 10.0000 | | |
| Chromium, Total | ug/L | MW-34A | 11/16/2016 | ND | 10.0000 | | |
| Chromium, Total | ug/L | MW-34A | 05/30/2017 | ND | 10.0000 | | |
| Chromium, Total | ug/L | MW-34A | 11/21/2017 | ND | 10.0000 | | |
| Chromium, Total | ug/L | MW-34A | 05/31/2018 | ND | 10.0000 | | |
| Chromium, Total | ug/L | MW-34A | 10/31/2018 | ND | 10.0000 | | |
| Chromium, Total | ug/L | MW-34A | 05/28/2019 | ND | 10.0000 | | |
| Chromium, Total | ug/L | MW-34A | 10/15/2019 | ND | 10.0000 | | |
| Chromium, Total | ug/L | MW-34A | 06/03/2020 | ND | 10.0000 | | |
| Chromium, Total | ug/L | MW-34A | 05/03/2021 | ND | 10.0000 | | |
| Chromium, Total | ug/L | MW-34A | 01/13/2022 | ND | 10.0000 | | |
| Chromium, Total | ug/L | MW-34A | 05/17/2022 | ND | 10.0000 | | |
| Chromium, Total | ug/L | MW-34A | 10/17/2022 | ND | 10.0000 | | |
| Chromium, Total | ug/L | MW-34A | 05/22/2023 | ND | 10.0000 | | |
| Chromium, Total | ug/L | MW-34A | 05/12/2025 | ND | 10.0000 | | |
| Chromium, Total | ug/L | MW-34A | 11/24/2025 | ND | 10.0000 | | |
| Cobalt, Total | ug/L | MW-34A | 04/13/2010 | ND | 10.0000 | 2.8000 | ** |
| Cobalt, Total | ug/L | MW-34A | 05/18/2010 | ND | 10.0000 | 2.8000 | ** |
| Cobalt, Total | ug/L | MW-34A | 06/21/2010 | ND | 10.0000 | 2.8000 | ** |
| Cobalt, Total | ug/L | MW-34A | 08/18/2010 | ND | 10.0000 | 2.8000 | ** |
| Cobalt, Total | ug/L | MW-34A | 10/18/2010 | ND | 10.0000 | 2.8000 | ** |
| Cobalt, Total | ug/L | MW-34A | 05/10/2011 | ND | 10.0000 | 2.8000 | ** |
| Cobalt, Total | ug/L | MW-34A | 10/19/2011 | ND | 10.0000 | 2.8000 | ** |
| Cobalt, Total | ug/L | MW-34A | 04/24/2012 | ND | 10.0000 | 2.8000 | ** |
| Cobalt, Total | ug/L | MW-34A | 10/25/2012 | ND | 10.0000 | 2.8000 | ** |

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

## Table 1

### Upgradient Data

| Constituent | Units | Well | Date | | Result | Adjusted | |
|---|---|---|---|---|---|---|---|
| Cobalt, Total | ug/L | MW-34A | 05/07/2013 | ND | 10.0000 | 2.8000 | ** |
| Cobalt, Total | ug/L | MW-34A | 11/11/2013 | ND | 10.0000 | 2.8000 | ** |
| Cobalt, Total | ug/L | MW-34A | 05/13/2014 | ND | 10.0000 | 2.8000 | ** |
| Cobalt, Total | ug/L | MW-34A | 11/12/2014 | ND | 10.0000 | 2.8000 | ** |
| Cobalt, Total | ug/L | MW-34A | 05/27/2015 | ND | 2.8000 | | |
| Cobalt, Total | ug/L | MW-34A | 11/18/2015 | ND | 2.8000 | | |
| Cobalt, Total | ug/L | MW-34A | 06/16/2016 | ND | 2.8000 | | |
| Cobalt, Total | ug/L | MW-34A | 11/16/2016 | ND | 2.8000 | | |
| Cobalt, Total | ug/L | MW-34A | 05/30/2017 | ND | 2.8000 | | |
| Cobalt, Total | ug/L | MW-34A | 11/21/2017 | ND | 2.8000 | | |
| Cobalt, Total | ug/L | MW-34A | 05/31/2018 | ND | 2.8000 | | |
| Cobalt, Total | ug/L | MW-34A | 10/31/2018 | ND | 2.8000 | | |
| Cobalt, Total | ug/L | MW-34A | 05/28/2019 | ND | 2.1000 | 2.8000 | ** |
| Cobalt, Total | ug/L | MW-34A | 10/15/2019 | ND | 2.1000 | 2.8000 | ** |
| Cobalt, Total | ug/L | MW-34A | 06/03/2020 | ND | 2.0000 | 2.8000 | ** |
| Cobalt, Total | ug/L | MW-34A | 05/03/2021 | ND | 2.0000 | 2.8000 | ** |
| Cobalt, Total | ug/L | MW-34A | 01/13/2022 | ND | 2.0000 | 2.8000 | ** |
| Cobalt, Total | ug/L | MW-34A | 05/17/2022 | ND | 2.0000 | 2.8000 | ** |
| Cobalt, Total | ug/L | MW-34A | 10/17/2022 | ND | 2.0000 | 2.8000 | ** |
| Cobalt, Total | ug/L | MW-34A | 05/22/2023 | ND | 2.0000 | 2.8000 | ** |
| Cobalt, Total | ug/L | MW-34A | 05/12/2025 | | 4.0200 | | |
| Cobalt, Total | ug/L | MW-34A | 11/24/2025 | ND | 2.0000 | 2.8000 | ** |
| Copper, Total | ug/L | MW-34A | 04/13/2010 | ND | 10.0000 | | |
| Copper, Total | ug/L | MW-34A | 05/18/2010 | ND | 10.0000 | | |
| Copper, Total | ug/L | MW-34A | 06/21/2010 | ND | 10.0000 | | |
| Copper, Total | ug/L | MW-34A | 08/18/2010 | ND | 10.0000 | | |
| Copper, Total | ug/L | MW-34A | 10/18/2010 | ND | 10.0000 | | |
| Copper, Total | ug/L | MW-34A | 05/10/2011 | ND | 10.0000 | | |
| Copper, Total | ug/L | MW-34A | 10/19/2011 | ND | 10.0000 | | |
| Copper, Total | ug/L | MW-34A | 04/24/2012 | ND | 10.0000 | | |
| Copper, Total | ug/L | MW-34A | 10/25/2012 | ND | 10.0000 | | |
| Copper, Total | ug/L | MW-34A | 05/07/2013 | ND | 10.0000 | | |
| Copper, Total | ug/L | MW-34A | 11/11/2013 | ND | 10.0000 | | |
| Copper, Total | ug/L | MW-34A | 05/13/2014 | ND | 10.0000 | | |
| Copper, Total | ug/L | MW-34A | 11/12/2014 | ND | 10.0000 | | |
| Copper, Total | ug/L | MW-34A | 05/27/2015 | ND | 10.0000 | | |
| Copper, Total | ug/L | MW-34A | 11/18/2015 | ND | 10.0000 | | |
| Copper, Total | ug/L | MW-34A | 06/16/2016 | ND | 10.0000 | | |
| Copper, Total | ug/L | MW-34A | 11/16/2016 | ND | 10.0000 | | |
| Copper, Total | ug/L | MW-34A | 05/30/2017 | ND | 10.0000 | | |
| Copper, Total | ug/L | MW-34A | 11/21/2017 | ND | 10.0000 | | |
| Copper, Total | ug/L | MW-34A | 05/31/2018 | ND | 10.0000 | | |
| Copper, Total | ug/L | MW-34A | 10/31/2018 | ND | 10.0000 | | |
| Copper, Total | ug/L | MW-34A | 05/28/2019 | ND | 10.0000 | | |
| Copper, Total | ug/L | MW-34A | 10/15/2019 | ND | 10.0000 | | |
| Copper, Total | ug/L | MW-34A | 06/03/2020 | ND | 10.0000 | | |
| Copper, Total | ug/L | MW-34A | 05/03/2021 | ND | 10.0000 | | |
| Copper, Total | ug/L | MW-34A | 01/13/2022 | ND | 10.0000 | | |
| Copper, Total | ug/L | MW-34A | 05/17/2022 | ND | 10.0000 | | |
| Copper, Total | ug/L | MW-34A | 10/17/2022 | ND | 10.0000 | | |
| Copper, Total | ug/L | MW-34A | 05/22/2023 | ND | 10.0000 | | |
| Copper, Total | ug/L | MW-34A | 05/12/2025 | ND | 10.0000 | | |
| Copper, Total | ug/L | MW-34A | 11/24/2025 | ND | 10.0000 | | |
| Lead, Total | ug/L | MW-34A | 04/13/2010 | ND | 10.0000 | | |
| Lead, Total | ug/L | MW-34A | 05/18/2010 | ND | 10.0000 | | |
| Lead, Total | ug/L | MW-34A | 06/21/2010 | ND | 10.0000 | | |
| Lead, Total | ug/L | MW-34A | 08/18/2010 | ND | 10.0000 | | |
| Lead, Total | ug/L | MW-34A | 10/18/2010 | ND | 10.0000 | | |
| Lead, Total | ug/L | MW-34A | 05/10/2011 | ND | 10.0000 | | |
| Lead, Total | ug/L | MW-34A | 10/19/2011 | ND | 10.0000 | | |
| Lead, Total | ug/L | MW-34A | 04/24/2012 | ND | 10.0000 | | |
| Lead, Total | ug/L | MW-34A | 10/25/2012 | ND | 10.0000 | | |
| Lead, Total | ug/L | MW-34A | 05/07/2013 | ND | 10.0000 | | |
| Lead, Total | ug/L | MW-34A | 11/11/2013 | ND | 10.0000 | | |
| Lead, Total | ug/L | MW-34A | 05/13/2014 | ND | 10.0000 | | |
| Lead, Total | ug/L | MW-34A | 11/12/2014 | ND | 10.0000 | | |
| Lead, Total | ug/L | MW-34A | 05/27/2015 | ND | 10.0000 | | |
| Lead, Total | ug/L | MW-34A | 11/18/2015 | ND | 10.0000 | | |
| Lead, Total | ug/L | MW-34A | 06/16/2016 | ND | 10.0000 | | |
| Lead, Total | ug/L | MW-34A | 11/16/2016 | ND | 10.0000 | | |
| Lead, Total | ug/L | MW-34A | 05/30/2017 | ND | 10.0000 | | |
| Lead, Total | ug/L | MW-34A | 11/21/2017 | ND | 10.0000 | | |
| Lead, Total | ug/L | MW-34A | 05/31/2018 | ND | 10.0000 | | |
| Lead, Total | ug/L | MW-34A | 10/31/2018 | ND | 10.0000 | | |

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

## Table 1

### Upgradient Data

| Constituent | Units | Well | Date | | Result | Adjusted | |
|---|---|---|---|---|---|---|---|
| Lead, Total | ug/L | MW-34A | 05/28/2019 | ND | 10.0000 | | |
| Lead, Total | ug/L | MW-34A | 10/15/2019 | ND | 10.0000 | | |
| Lead, Total | ug/L | MW-34A | 06/03/2020 | ND | 10.0000 | | |
| Lead, Total | ug/L | MW-34A | 05/03/2021 | ND | 10.0000 | | |
| Lead, Total | ug/L | MW-34A | 01/13/2022 | ND | 10.0000 | | |
| Lead, Total | ug/L | MW-34A | 05/17/2022 | ND | 10.0000 | | |
| Lead, Total | ug/L | MW-34A | 10/17/2022 | ND | 10.0000 | | |
| Lead, Total | ug/L | MW-34A | 05/22/2023 | ND | 10.0000 | | |
| Lead, Total | ug/L | MW-34A | 05/12/2025 | ND | 10.0000 | | |
| Lead, Total | ug/L | MW-34A | 11/24/2025 | ND | 10.0000 | | |
| Nickel, Total | ug/L | MW-34A | 04/13/2010 | ND | 10.0000 | | |
| Nickel, Total | ug/L | MW-34A | 05/18/2010 | ND | 10.0000 | | |
| Nickel, Total | ug/L | MW-34A | 06/21/2010 | ND | 10.0000 | | |
| Nickel, Total | ug/L | MW-34A | 08/18/2010 | ND | 10.0000 | | |
| Nickel, Total | ug/L | MW-34A | 10/18/2010 | ND | 10.0000 | | |
| Nickel, Total | ug/L | MW-34A | 05/10/2011 | ND | 10.0000 | | |
| Nickel, Total | ug/L | MW-34A | 10/19/2011 | ND | 10.0000 | | |
| Nickel, Total | ug/L | MW-34A | 04/24/2012 | ND | 10.0000 | | |
| Nickel, Total | ug/L | MW-34A | 10/25/2012 | ND | 10.0000 | | |
| Nickel, Total | ug/L | MW-34A | 05/07/2013 | ND | 10.0000 | | |
| Nickel, Total | ug/L | MW-34A | 11/11/2013 | ND | 10.0000 | | |
| Nickel, Total | ug/L | MW-34A | 05/13/2014 | ND | 10.0000 | | |
| Nickel, Total | ug/L | MW-34A | 11/12/2014 | ND | 10.0000 | | |
| Nickel, Total | ug/L | MW-34A | 05/27/2015 | ND | 10.0000 | | |
| Nickel, Total | ug/L | MW-34A | 11/18/2015 | ND | 10.0000 | | |
| Nickel, Total | ug/L | MW-34A | 06/16/2016 | ND | 10.0000 | | |
| Nickel, Total | ug/L | MW-34A | 11/16/2016 | ND | 10.0000 | | |
| Nickel, Total | ug/L | MW-34A | 05/30/2017 | ND | 10.0000 | | |
| Nickel, Total | ug/L | MW-34A | 11/21/2017 | ND | 10.0000 | | |
| Nickel, Total | ug/L | MW-34A | 05/31/2018 | ND | 10.0000 | | |
| Nickel, Total | ug/L | MW-34A | 10/31/2018 | | 17.0000 | | |
| Nickel, Total | ug/L | MW-34A | 05/28/2019 | ND | 10.0000 | | |
| Nickel, Total | ug/L | MW-34A | 10/15/2019 | | 21.0000 | | |
| Nickel, Total | ug/L | MW-34A | 06/03/2020 | ND | 10.0000 | | |
| Nickel, Total | ug/L | MW-34A | 05/03/2021 | ND | 10.0000 | | |
| Nickel, Total | ug/L | MW-34A | 01/13/2022 | ND | 10.0000 | | |
| Nickel, Total | ug/L | MW-34A | 05/17/2022 | ND | 10.0000 | | |
| Nickel, Total | ug/L | MW-34A | 10/17/2022 | ND | 10.0000 | | |
| Nickel, Total | ug/L | MW-34A | 05/22/2023 | ND | 10.0000 | | |
| Nickel, Total | ug/L | MW-34A | 05/12/2025 | ND | 10.0000 | | |
| Nickel, Total | ug/L | MW-34A | 11/24/2025 | ND | 10.0000 | | |
| Selenium, Total | ug/L | MW-34A | 04/13/2010 | ND | 10.0000 | | |
| Selenium, Total | ug/L | MW-34A | 05/18/2010 | ND | 10.0000 | | |
| Selenium, Total | ug/L | MW-34A | 06/21/2010 | ND | 10.0000 | | |
| Selenium, Total | ug/L | MW-34A | 08/18/2010 | ND | 10.0000 | | |
| Selenium, Total | ug/L | MW-34A | 10/18/2010 | ND | 10.0000 | | |
| Selenium, Total | ug/L | MW-34A | 05/10/2011 | ND | 10.0000 | | |
| Selenium, Total | ug/L | MW-34A | 10/19/2011 | | 11.0000 | | |
| Selenium, Total | ug/L | MW-34A | 04/24/2012 | ND | 10.0000 | | |
| Selenium, Total | ug/L | MW-34A | 10/25/2012 | ND | 10.0000 | | |
| Selenium, Total | ug/L | MW-34A | 05/07/2013 | ND | 10.0000 | | |
| Selenium, Total | ug/L | MW-34A | 11/11/2013 | ND | 10.0000 | | |
| Selenium, Total | ug/L | MW-34A | 05/13/2014 | ND | 10.0000 | | |
| Selenium, Total | ug/L | MW-34A | 11/12/2014 | ND | 10.0000 | | |
| Selenium, Total | ug/L | MW-34A | 05/27/2015 | ND | 10.0000 | | |
| Selenium, Total | ug/L | MW-34A | 11/18/2015 | ND | 10.0000 | | |
| Selenium, Total | ug/L | MW-34A | 06/16/2016 | | 22.0000 | | |
| Selenium, Total | ug/L | MW-34A | 11/16/2016 | | 12.0000 | | |
| Selenium, Total | ug/L | MW-34A | 05/30/2017 | | 25.0000 | | |
| Selenium, Total | ug/L | MW-34A | 11/21/2017 | ND | 10.0000 | | |
| Selenium, Total | ug/L | MW-34A | 05/31/2018 | ND | 10.0000 | | |
| Selenium, Total | ug/L | MW-34A | 10/31/2018 | ND | 10.0000 | | |
| Selenium, Total | ug/L | MW-34A | 05/28/2019 | ND | 10.0000 | | |
| Selenium, Total | ug/L | MW-34A | 10/15/2019 | ND | 10.0000 | | |
| Selenium, Total | ug/L | MW-34A | 06/03/2020 | ND | 10.0000 | | |
| Selenium, Total | ug/L | MW-34A | 05/03/2021 | ND | 10.0000 | | |
| Selenium, Total | ug/L | MW-34A | 01/13/2022 | ND | 10.0000 | | |
| Selenium, Total | ug/L | MW-34A | 05/17/2022 | ND | 10.0000 | | |
| Selenium, Total | ug/L | MW-34A | 10/17/2022 | ND | 10.0000 | | |
| Selenium, Total | ug/L | MW-34A | 05/22/2023 | ND | 10.0000 | | |
| Selenium, Total | ug/L | MW-34A | 05/12/2025 | ND | 10.0000 | | |
| Selenium, Total | ug/L | MW-34A | 11/24/2025 | ND | 10.0000 | | |
| Silver, Total | ug/L | MW-34A | 04/13/2010 | ND | 10.0000 | | |
| Silver, Total | ug/L | MW-34A | 05/18/2010 | ND | 10.0000 | | |

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

## Table 1

### Upgradient Data

| Constituent | Units | Well | Date | | Result | Adjusted | |
|---|---|---|---|---|---|---|---|
| Silver, Total | ug/L | MW-34A | 06/21/2010 | ND | 10.0000 | | |
| Silver, Total | ug/L | MW-34A | 08/18/2010 | ND | 10.0000 | | |
| Silver, Total | ug/L | MW-34A | 10/18/2010 | ND | 10.0000 | | |
| Silver, Total | ug/L | MW-34A | 05/10/2011 | ND | 10.0000 | | |
| Silver, Total | ug/L | MW-34A | 10/19/2011 | ND | 10.0000 | | |
| Silver, Total | ug/L | MW-34A | 04/24/2012 | ND | 10.0000 | | |
| Silver, Total | ug/L | MW-34A | 10/25/2012 | ND | 10.0000 | | |
| Silver, Total | ug/L | MW-34A | 05/07/2013 | ND | 10.0000 | | |
| Silver, Total | ug/L | MW-34A | 11/11/2013 | ND | 10.0000 | | |
| Silver, Total | ug/L | MW-34A | 05/13/2014 | ND | 10.0000 | | |
| Silver, Total | ug/L | MW-34A | 11/12/2014 | ND | 10.0000 | | |
| Silver, Total | ug/L | MW-34A | 05/27/2015 | ND | 10.0000 | | |
| Silver, Total | ug/L | MW-34A | 11/18/2015 | ND | 10.0000 | | |
| Silver, Total | ug/L | MW-34A | 06/16/2016 | ND | 10.0000 | | |
| Silver, Total | ug/L | MW-34A | 11/16/2016 | ND | 10.0000 | | |
| Silver, Total | ug/L | MW-34A | 05/30/2017 | ND | 10.0000 | | |
| Silver, Total | ug/L | MW-34A | 11/21/2017 | ND | 10.0000 | | |
| Silver, Total | ug/L | MW-34A | 05/31/2018 | ND | 10.0000 | | |
| Silver, Total | ug/L | MW-34A | 10/31/2018 | ND | 10.0000 | | |
| Silver, Total | ug/L | MW-34A | 05/28/2019 | ND | 10.0000 | | |
| Silver, Total | ug/L | MW-34A | 10/15/2019 | ND | 10.0000 | | |
| Silver, Total | ug/L | MW-34A | 06/03/2020 | ND | 10.0000 | | |
| Silver, Total | ug/L | MW-34A | 05/03/2021 | ND | 10.0000 | | |
| Silver, Total | ug/L | MW-34A | 01/13/2022 | ND | 10.0000 | | |
| Silver, Total | ug/L | MW-34A | 05/17/2022 | ND | 10.0000 | | |
| Silver, Total | ug/L | MW-34A | 10/17/2022 | ND | 10.0000 | | |
| Silver, Total | ug/L | MW-34A | 05/22/2023 | ND | 10.0000 | | |
| Silver, Total | ug/L | MW-34A | 05/12/2025 | ND | 10.0000 | | |
| Silver, Total | ug/L | MW-34A | 11/24/2025 | ND | 10.0000 | | |
| Thallium, Total | ug/L | MW-34A | 04/13/2010 | ND | 2.0000 | | |
| Thallium, Total | ug/L | MW-34A | 05/18/2010 | ND | 2.0000 | | |
| Thallium, Total | ug/L | MW-34A | 06/21/2010 | ND | 2.0000 | | |
| Thallium, Total | ug/L | MW-34A | 08/18/2010 | ND | 2.0000 | | |
| Thallium, Total | ug/L | MW-34A | 10/18/2010 | ND | 2.0000 | | |
| Thallium, Total | ug/L | MW-34A | 05/10/2011 | ND | 2.0000 | | |
| Thallium, Total | ug/L | MW-34A | 10/19/2011 | ND | 2.0000 | | |
| Thallium, Total | ug/L | MW-34A | 04/24/2012 | ND | 2.0000 | | |
| Thallium, Total | ug/L | MW-34A | 10/25/2012 | ND | 2.0000 | | |
| Thallium, Total | ug/L | MW-34A | 05/07/2013 | ND | 2.0000 | | |
| Thallium, Total | ug/L | MW-34A | 11/11/2013 | ND | 2.0000 | | |
| Thallium, Total | ug/L | MW-34A | 05/13/2014 | ND | 2.0000 | | |
| Thallium, Total | ug/L | MW-34A | 11/12/2014 | ND | 2.0000 | | |
| Thallium, Total | ug/L | MW-34A | 05/27/2015 | ND | 2.0000 | | |
| Thallium, Total | ug/L | MW-34A | 11/18/2015 | ND | 2.0000 | | |
| Thallium, Total | ug/L | MW-34A | 06/16/2016 | ND | 2.0000 | | |
| Thallium, Total | ug/L | MW-34A | 11/16/2016 | ND | 2.0000 | | |
| Thallium, Total | ug/L | MW-34A | 05/30/2017 | ND | 2.0000 | | |
| Thallium, Total | ug/L | MW-34A | 11/21/2017 | ND | 2.0000 | | |
| Thallium, Total | ug/L | MW-34A | 05/31/2018 | ND | 2.0000 | | |
| Thallium, Total | ug/L | MW-34A | 10/31/2018 | ND | 2.0000 | | |
| Thallium, Total | ug/L | MW-34A | 05/28/2019 | ND | 2.0000 | | |
| Thallium, Total | ug/L | MW-34A | 10/15/2019 | ND | 2.0000 | | |
| Thallium, Total | ug/L | MW-34A | 06/03/2020 | ND | 2.0000 | | |
| Thallium, Total | ug/L | MW-34A | 05/03/2021 | ND | 2.0000 | | |
| Thallium, Total | ug/L | MW-34A | 01/13/2022 | ND | 2.0000 | | |
| Thallium, Total | ug/L | MW-34A | 05/17/2022 | ND | 2.0000 | | |
| Thallium, Total | ug/L | MW-34A | 10/17/2022 | ND | 2.0000 | | |
| Thallium, Total | ug/L | MW-34A | 05/22/2023 | ND | 2.0000 | | |
| Thallium, Total | ug/L | MW-34A | 05/12/2025 | ND | 2.0000 | | |
| Thallium, Total | ug/L | MW-34A | 11/24/2025 | ND | 2.0000 | | |
| Vanadium, Total | ug/L | MW-34A | 04/13/2010 | ND | 20.0000 | | |
| Vanadium, Total | ug/L | MW-34A | 05/18/2010 | ND | 20.0000 | | |
| Vanadium, Total | ug/L | MW-34A | 06/21/2010 | ND | 20.0000 | | |
| Vanadium, Total | ug/L | MW-34A | 08/18/2010 | ND | 20.0000 | | |
| Vanadium, Total | ug/L | MW-34A | 10/18/2010 | ND | 20.0000 | | |
| Vanadium, Total | ug/L | MW-34A | 05/10/2011 | ND | 20.0000 | | |
| Vanadium, Total | ug/L | MW-34A | 10/19/2011 | ND | 20.0000 | | |
| Vanadium, Total | ug/L | MW-34A | 04/24/2012 | ND | 20.0000 | | |
| Vanadium, Total | ug/L | MW-34A | 10/25/2012 | ND | 20.0000 | | |
| Vanadium, Total | ug/L | MW-34A | 05/07/2013 | ND | 20.0000 | | |
| Vanadium, Total | ug/L | MW-34A | 11/11/2013 | ND | 20.0000 | | |
| Vanadium, Total | ug/L | MW-34A | 05/13/2014 | ND | 20.0000 | | |
| Vanadium, Total | ug/L | MW-34A | 11/12/2014 | ND | 20.0000 | | |
| Vanadium, Total | ug/L | MW-34A | 05/27/2015 | 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 | MW-34A | 11/18/2015 | ND | 20.0000 | | |
| Vanadium, Total | ug/L | MW-34A | 06/16/2016 | ND | 20.0000 | | |
| Vanadium, Total | ug/L | MW-34A | 11/16/2016 | ND | 20.0000 | | |
| Vanadium, Total | ug/L | MW-34A | 05/30/2017 | ND | 20.0000 | | |
| Vanadium, Total | ug/L | MW-34A | 11/21/2017 | ND | 20.0000 | | |
| Vanadium, Total | ug/L | MW-34A | 05/31/2018 | ND | 20.0000 | | |
| Vanadium, Total | ug/L | MW-34A | 10/31/2018 | ND | 20.0000 | | |
| Vanadium, Total | ug/L | MW-34A | 05/28/2019 | ND | 20.0000 | | |
| Vanadium, Total | ug/L | MW-34A | 10/15/2019 | ND | 20.0000 | | |
| Vanadium, Total | ug/L | MW-34A | 06/03/2020 | ND | 20.0000 | | |
| Vanadium, Total | ug/L | MW-34A | 05/03/2021 | ND | 20.0000 | | |
| Vanadium, Total | ug/L | MW-34A | 01/13/2022 | ND | 20.0000 | | |
| Vanadium, Total | ug/L | MW-34A | 05/17/2022 | ND | 20.0000 | | |
| Vanadium, Total | ug/L | MW-34A | 10/17/2022 | ND | 20.0000 | | |
| Vanadium, Total | ug/L | MW-34A | 05/22/2023 | ND | 20.0000 | | |
| Vanadium, Total | ug/L | MW-34A | 05/12/2025 | ND | 20.0000 | | |
| Vanadium, Total | ug/L | MW-34A | 11/24/2025 | ND | 20.0000 | | |
| Zinc, Total | ug/L | MW-34A | 04/13/2010 | ND | 20.0000 | | |
| Zinc, Total | ug/L | MW-34A | 05/18/2010 | ND | 20.0000 | | |
| Zinc, Total | ug/L | MW-34A | 06/21/2010 | ND | 20.0000 | | |
| Zinc, Total | ug/L | MW-34A | 08/18/2010 | ND | 20.0000 | | |
| Zinc, Total | ug/L | MW-34A | 10/18/2010 | ND | 20.0000 | | |
| Zinc, Total | ug/L | MW-34A | 05/10/2011 | ND | 20.0000 | | |
| Zinc, Total | ug/L | MW-34A | 10/19/2011 | ND | 20.0000 | | |
| Zinc, Total | ug/L | MW-34A | 04/24/2012 | ND | 20.0000 | | |
| Zinc, Total | ug/L | MW-34A | 10/25/2012 | ND | 20.0000 | | |
| Zinc, Total | ug/L | MW-34A | 05/07/2013 | ND | 20.0000 | | |
| Zinc, Total | ug/L | MW-34A | 11/11/2013 | ND | 20.0000 | | |
| Zinc, Total | ug/L | MW-34A | 05/13/2014 | ND | 20.0000 | | |
| Zinc, Total | ug/L | MW-34A | 11/12/2014 | ND | 20.0000 | | |
| Zinc, Total | ug/L | MW-34A | 05/27/2015 | ND | 20.0000 | | |
| Zinc, Total | ug/L | MW-34A | 11/18/2015 | ND | 20.0000 | | |
| Zinc, Total | ug/L | MW-34A | 06/16/2016 | ND | 20.0000 | | |
| Zinc, Total | ug/L | MW-34A | 11/16/2016 | ND | 20.0000 | | |
| Zinc, Total | ug/L | MW-34A | 05/30/2017 | ND | 20.0000 | | |
| Zinc, Total | ug/L | MW-34A | 11/21/2017 | ND | 20.0000 | | |
| Zinc, Total | ug/L | MW-34A | 05/31/2018 | ND | 20.0000 | | |
| Zinc, Total | ug/L | MW-34A | 10/31/2018 | ND | 20.0000 | | |
| Zinc, Total | ug/L | MW-34A | 05/28/2019 | ND | 20.0000 | | |
| Zinc, Total | ug/L | MW-34A | 10/15/2019 | ND | 20.0000 | | |
| Zinc, Total | ug/L | MW-34A | 06/03/2020 | ND | 50.0000 | 20.0000 | ** |
| Zinc, Total | ug/L | MW-34A | 05/03/2021 | ND | 50.0000 | 20.0000 | ** |
| Zinc, Total | ug/L | MW-34A | 01/13/2022 | ND | 50.0000 | 20.0000 | ** |
| Zinc, Total | ug/L | MW-34A | 05/17/2022 | ND | 50.0000 | 20.0000 | ** |
| Zinc, Total | ug/L | MW-34A | 10/17/2022 | ND | 50.0000 | 20.0000 | ** |
| Zinc, Total | ug/L | MW-34A | 05/22/2023 | ND | 50.0000 | 20.0000 | ** |
| Zinc, Total | ug/L | MW-34A | 05/12/2025 | ND | 50.0000 | 20.0000 | ** |
| Zinc, Total | ug/L | MW-34A | 11/24/2025 | ND | 50.0000 | 20.0000 | ** |
| Antimony, Total | ug/L | MW-36A | 04/13/2010 | ND | 6.8000 | 6.0000 | ** |
| Antimony, Total | ug/L | MW-36A | 05/18/2010 | ND | 6.8000 | 6.0000 | ** |
| Antimony, Total | ug/L | MW-36A | 06/21/2010 | ND | 6.8000 | 6.0000 | ** |
| Antimony, Total | ug/L | MW-36A | 08/18/2010 | ND | 6.8000 | 6.0000 | ** |
| Antimony, Total | ug/L | MW-36A | 10/18/2010 | ND | 6.8000 | 6.0000 | ** |
| Antimony, Total | ug/L | MW-36A | 05/10/2011 | ND | 6.0000 | | |
| Antimony, Total | ug/L | MW-36A | 10/19/2011 | ND | 6.0000 | | |
| Antimony, Total | ug/L | MW-36A | 04/24/2012 | ND | 6.0000 | | |
| Antimony, Total | ug/L | MW-36A | 10/25/2012 | ND | 6.0000 | | |
| Antimony, Total | ug/L | MW-36A | 05/07/2013 | ND | 6.0000 | | |
| Antimony, Total | ug/L | MW-36A | 11/11/2013 | ND | 6.0000 | | |
| Antimony, Total | ug/L | MW-36A | 05/13/2014 | ND | 6.0000 | | |
| Antimony, Total | ug/L | MW-36A | 11/12/2014 | ND | 6.0000 | | |
| Antimony, Total | ug/L | MW-36A | 05/27/2015 | ND | 6.0000 | | |
| Antimony, Total | ug/L | MW-36A | 11/18/2015 | ND | 6.0000 | | |
| Antimony, Total | ug/L | MW-36A | 06/16/2016 | ND | 6.0000 | | |
| Antimony, Total | ug/L | MW-36A | 11/16/2016 | ND | 6.0000 | | |
| Antimony, Total | ug/L | MW-36A | 05/30/2017 | ND | 6.0000 | | |
| Antimony, Total | ug/L | MW-36A | 11/21/2017 | ND | 6.0000 | | |
| Antimony, Total | ug/L | MW-36A | 05/31/2018 | ND | 6.0000 | | |
| Antimony, Total | ug/L | MW-36A | 10/31/2018 | ND | 6.0000 | | |
| Antimony, Total | ug/L | MW-36A | 10/15/2019 | ND | 6.0000 | | |
| Antimony, Total | ug/L | MW-36A | 05/03/2021 | ND | 6.0000 | | |
| Antimony, Total | ug/L | MW-36A | 01/13/2022 | ND | 6.0000 | | |
| Antimony, Total | ug/L | MW-36A | 05/17/2022 | ND | 6.0000 | | |
| Antimony, Total | ug/L | MW-36A | 10/17/2022 | ND | 6.0000 | | |

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

## Table 1

### Upgradient Data

| Constituent | Units | Well | Date | | Result | Adjusted | |
|---|---|---|---|---|---|---|---|
| Antimony, Total | ug/L | MW-36A | 05/22/2023 | ND | 6.0000 | | |
| Antimony, Total | ug/L | MW-36A | 05/12/2025 | ND | 6.0000 | | |
| Arsenic, Total | ug/L | MW-36A | 04/13/2010 | ND | 10.0000 | | |
| Arsenic, Total | ug/L | MW-36A | 05/18/2010 | ND | 10.0000 | | |
| Arsenic, Total | ug/L | MW-36A | 06/21/2010 | ND | 10.0000 | | |
| Arsenic, Total | ug/L | MW-36A | 08/18/2010 | ND | 10.0000 | | |
| Arsenic, Total | ug/L | MW-36A | 10/18/2010 | ND | 10.0000 | | |
| Arsenic, Total | ug/L | MW-36A | 05/10/2011 | ND | 10.0000 | | |
| Arsenic, Total | ug/L | MW-36A | 10/19/2011 | ND | 10.0000 | | |
| Arsenic, Total | ug/L | MW-36A | 04/24/2012 | ND | 10.0000 | | |
| Arsenic, Total | ug/L | MW-36A | 10/25/2012 | ND | 10.0000 | | |
| Arsenic, Total | ug/L | MW-36A | 05/07/2013 | ND | 10.0000 | | |
| Arsenic, Total | ug/L | MW-36A | 11/11/2013 | ND | 10.0000 | | |
| Arsenic, Total | ug/L | MW-36A | 05/13/2014 | ND | 10.0000 | | |
| Arsenic, Total | ug/L | MW-36A | 11/12/2014 | ND | 10.0000 | | |
| Arsenic, Total | ug/L | MW-36A | 05/27/2015 | ND | 10.0000 | | |
| Arsenic, Total | ug/L | MW-36A | 11/18/2015 | ND | 10.0000 | | |
| Arsenic, Total | ug/L | MW-36A | 06/16/2016 | ND | 10.0000 | | |
| Arsenic, Total | ug/L | MW-36A | 11/16/2016 | ND | 10.0000 | | |
| Arsenic, Total | ug/L | MW-36A | 05/30/2017 | ND | 10.0000 | | |
| Arsenic, Total | ug/L | MW-36A | 11/21/2017 | ND | 10.0000 | | |
| Arsenic, Total | ug/L | MW-36A | 05/31/2018 | ND | 10.0000 | | |
| Arsenic, Total | ug/L | MW-36A | 10/31/2018 | ND | 10.0000 | | |
| Arsenic, Total | ug/L | MW-36A | 10/15/2019 | ND | 10.0000 | | |
| Arsenic, Total | ug/L | MW-36A | 05/03/2021 | ND | 10.0000 | | |
| Arsenic, Total | ug/L | MW-36A | 01/13/2022 | ND | 10.0000 | | |
| Arsenic, Total | ug/L | MW-36A | 05/17/2022 | ND | 10.0000 | | |
| Arsenic, Total | ug/L | MW-36A | 10/17/2022 | ND | 10.0000 | | |
| Arsenic, Total | ug/L | MW-36A | 05/22/2023 | ND | 10.0000 | | |
| Arsenic, Total | ug/L | MW-36A | 05/12/2025 | ND | 10.0000 | | |
| Barium, Total | ug/L | MW-36A | 04/13/2010 | | 38.0000 | | |
| Barium, Total | ug/L | MW-36A | 05/18/2010 | | 36.7000 | | |
| Barium, Total | ug/L | MW-36A | 06/21/2010 | | 39.4000 | | |
| Barium, Total | ug/L | MW-36A | 08/18/2010 | | 39.3000 | | |
| Barium, Total | ug/L | MW-36A | 10/18/2010 | | 44.2000 | | |
| Barium, Total | ug/L | MW-36A | 05/10/2011 | | 39.0000 | | |
| Barium, Total | ug/L | MW-36A | 10/19/2011 | | 42.0000 | | |
| Barium, Total | ug/L | MW-36A | 04/24/2012 | | 37.0000 | | |
| Barium, Total | ug/L | MW-36A | 10/25/2012 | | 43.0000 | | |
| Barium, Total | ug/L | MW-36A | 05/07/2013 | | 37.0000 | | |
| Barium, Total | ug/L | MW-36A | 11/11/2013 | | 41.0000 | | |
| Barium, Total | ug/L | MW-36A | 05/13/2014 | | 33.0000 | | |
| Barium, Total | ug/L | MW-36A | 11/12/2014 | | 46.0000 | | |
| Barium, Total | ug/L | MW-36A | 05/27/2015 | | 36.0000 | | |
| Barium, Total | ug/L | MW-36A | 11/18/2015 | | 40.0000 | | |
| Barium, Total | ug/L | MW-36A | 06/16/2016 | | 24.0000 | | |
| Barium, Total | ug/L | MW-36A | 11/16/2016 | | 31.0000 | | |
| Barium, Total | ug/L | MW-36A | 05/30/2017 | | 30.0000 | | |
| Barium, Total | ug/L | MW-36A | 11/21/2017 | | 320.0000 | | |
| Barium, Total | ug/L | MW-36A | 05/31/2018 | | 290.0000 | | |
| Barium, Total | ug/L | MW-36A | 10/31/2018 | | 300.0000 | | |
| Barium, Total | ug/L | MW-36A | 10/15/2019 | | 290.0000 | | |
| Barium, Total | ug/L | MW-36A | 05/03/2021 | | 303.0000 | | |
| Barium, Total | ug/L | MW-36A | 01/13/2022 | | 38.0000 | | |
| Barium, Total | ug/L | MW-36A | 05/17/2022 | | 182.0000 | | |
| Barium, Total | ug/L | MW-36A | 10/17/2022 | | 223.0000 | | |
| Barium, Total | ug/L | MW-36A | 05/22/2023 | | 267.0000 | | |
| Barium, Total | ug/L | MW-36A | 05/12/2025 | | 42.6000 | | |
| Beryllium, Total | ug/L | MW-36A | 04/13/2010 | ND | 4.0000 | | |
| Beryllium, Total | ug/L | MW-36A | 05/18/2010 | ND | 4.0000 | | |
| Beryllium, Total | ug/L | MW-36A | 06/21/2010 | ND | 4.0000 | | |
| Beryllium, Total | ug/L | MW-36A | 08/18/2010 | ND | 4.0000 | | |
| Beryllium, Total | ug/L | MW-36A | 10/18/2010 | ND | 4.0000 | | |
| Beryllium, Total | ug/L | MW-36A | 05/10/2011 | ND | 4.0000 | | |
| Beryllium, Total | ug/L | MW-36A | 10/19/2011 | ND | 4.0000 | | |
| Beryllium, Total | ug/L | MW-36A | 04/24/2012 | ND | 4.0000 | | |
| Beryllium, Total | ug/L | MW-36A | 10/25/2012 | ND | 4.0000 | | |
| Beryllium, Total | ug/L | MW-36A | 05/07/2013 | ND | 4.0000 | | |
| Beryllium, Total | ug/L | MW-36A | 11/11/2013 | ND | 4.0000 | | |
| Beryllium, Total | ug/L | MW-36A | 05/13/2014 | ND | 4.0000 | | |
| Beryllium, Total | ug/L | MW-36A | 11/12/2014 | ND | 4.0000 | | |
| Beryllium, Total | ug/L | MW-36A | 05/27/2015 | ND | 4.0000 | | |
| Beryllium, Total | ug/L | MW-36A | 11/18/2015 | ND | 4.0000 | | |
| Beryllium, Total | ug/L | MW-36A | 06/16/2016 | 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 | |
|---|---|---|---|---|---|---|---|
| Beryllium, Total | ug/L | MW-36A | 11/16/2016 | ND | 4.0000 | | |
| Beryllium, Total | ug/L | MW-36A | 05/30/2017 | ND | 4.0000 | | |
| Beryllium, Total | ug/L | MW-36A | 11/21/2017 | ND | 4.0000 | | |
| Beryllium, Total | ug/L | MW-36A | 05/31/2018 | ND | 4.0000 | | |
| Beryllium, Total | ug/L | MW-36A | 10/31/2018 | ND | 4.0000 | | |
| Beryllium, Total | ug/L | MW-36A | 10/15/2019 | ND | 4.0000 | | |
| Beryllium, Total | ug/L | MW-36A | 05/03/2021 | ND | 4.0000 | | |
| Beryllium, Total | ug/L | MW-36A | 01/13/2022 | ND | 4.0000 | | |
| Beryllium, Total | ug/L | MW-36A | 05/17/2022 | ND | 4.0000 | | |
| Beryllium, Total | ug/L | MW-36A | 10/17/2022 | ND | 4.0000 | | |
| Beryllium, Total | ug/L | MW-36A | 05/22/2023 | ND | 4.0000 | | |
| Beryllium, Total | ug/L | MW-36A | 05/12/2025 | ND | 4.0000 | | |
| Cadmium, Total | ug/L | MW-36A | 04/13/2010 | ND | 5.0000 | | |
| Cadmium, Total | ug/L | MW-36A | 05/18/2010 | ND | 5.0000 | | |
| Cadmium, Total | ug/L | MW-36A | 06/21/2010 | ND | 5.0000 | | |
| Cadmium, Total | ug/L | MW-36A | 08/18/2010 | ND | 5.0000 | | |
| Cadmium, Total | ug/L | MW-36A | 10/18/2010 | ND | 5.0000 | | |
| Cadmium, Total | ug/L | MW-36A | 05/10/2011 | ND | 5.0000 | | |
| Cadmium, Total | ug/L | MW-36A | 10/19/2011 | ND | 5.0000 | | |
| Cadmium, Total | ug/L | MW-36A | 04/24/2012 | ND | 5.0000 | | |
| Cadmium, Total | ug/L | MW-36A | 10/25/2012 | ND | 5.0000 | | |
| Cadmium, Total | ug/L | MW-36A | 05/07/2013 | ND | 5.0000 | | |
| Cadmium, Total | ug/L | MW-36A | 11/11/2013 | ND | 5.0000 | | |
| Cadmium, Total | ug/L | MW-36A | 05/13/2014 | ND | 5.0000 | | |
| Cadmium, Total | ug/L | MW-36A | 11/12/2014 | ND | 5.0000 | | |
| Cadmium, Total | ug/L | MW-36A | 05/27/2015 | ND | 5.0000 | | |
| Cadmium, Total | ug/L | MW-36A | 11/18/2015 | ND | 5.0000 | | |
| Cadmium, Total | ug/L | MW-36A | 06/16/2016 | ND | 5.0000 | | |
| Cadmium, Total | ug/L | MW-36A | 11/16/2016 | ND | 5.0000 | | |
| Cadmium, Total | ug/L | MW-36A | 05/30/2017 | ND | 5.0000 | | |
| Cadmium, Total | ug/L | MW-36A | 11/21/2017 | ND | 5.0000 | | |
| Cadmium, Total | ug/L | MW-36A | 05/31/2018 | ND | 5.0000 | | |
| Cadmium, Total | ug/L | MW-36A | 10/31/2018 | ND | 5.0000 | | |
| Cadmium, Total | ug/L | MW-36A | 10/15/2019 | ND | 5.0000 | | |
| Cadmium, Total | ug/L | MW-36A | 05/03/2021 | ND | 5.0000 | | |
| Cadmium, Total | ug/L | MW-36A | 01/13/2022 | ND | 5.0000 | | |
| Cadmium, Total | ug/L | MW-36A | 05/17/2022 | ND | 5.0000 | | |
| Cadmium, Total | ug/L | MW-36A | 10/17/2022 | ND | 5.0000 | | |
| Cadmium, Total | ug/L | MW-36A | 05/22/2023 | ND | 5.0000 | | |
| Cadmium, Total | ug/L | MW-36A | 05/12/2025 | ND | 5.0000 | | |
| Chromium, Total | ug/L | MW-36A | 04/13/2010 | ND | 10.0000 | | |
| Chromium, Total | ug/L | MW-36A | 05/18/2010 | ND | 10.0000 | | |
| Chromium, Total | ug/L | MW-36A | 06/21/2010 | ND | 10.0000 | | |
| Chromium, Total | ug/L | MW-36A | 08/18/2010 | ND | 10.0000 | | |
| Chromium, Total | ug/L | MW-36A | 10/18/2010 | ND | 10.0000 | | |
| Chromium, Total | ug/L | MW-36A | 05/10/2011 | ND | 10.0000 | | |
| Chromium, Total | ug/L | MW-36A | 10/19/2011 | ND | 10.0000 | | |
| Chromium, Total | ug/L | MW-36A | 04/24/2012 | ND | 10.0000 | | |
| Chromium, Total | ug/L | MW-36A | 10/25/2012 | ND | 10.0000 | | |
| Chromium, Total | ug/L | MW-36A | 05/07/2013 | ND | 10.0000 | | |
| Chromium, Total | ug/L | MW-36A | 11/11/2013 | ND | 10.0000 | | |
| Chromium, Total | ug/L | MW-36A | 05/13/2014 | ND | 10.0000 | | |
| Chromium, Total | ug/L | MW-36A | 11/12/2014 | ND | 10.0000 | | |
| Chromium, Total | ug/L | MW-36A | 05/27/2015 | ND | 10.0000 | | |
| Chromium, Total | ug/L | MW-36A | 11/18/2015 | ND | 10.0000 | | |
| Chromium, Total | ug/L | MW-36A | 06/16/2016 | ND | 10.0000 | | |
| Chromium, Total | ug/L | MW-36A | 11/16/2016 | ND | 10.0000 | | |
| Chromium, Total | ug/L | MW-36A | 05/30/2017 | ND | 10.0000 | | |
| Chromium, Total | ug/L | MW-36A | 11/21/2017 | ND | 10.0000 | | |
| Chromium, Total | ug/L | MW-36A | 05/31/2018 | ND | 10.0000 | | |
| Chromium, Total | ug/L | MW-36A | 10/31/2018 | ND | 10.0000 | | |
| Chromium, Total | ug/L | MW-36A | 10/15/2019 | ND | 10.0000 | | |
| Chromium, Total | ug/L | MW-36A | 05/03/2021 | ND | 10.0000 | | |
| Chromium, Total | ug/L | MW-36A | 01/13/2022 | ND | 10.0000 | | |
| Chromium, Total | ug/L | MW-36A | 05/17/2022 | ND | 10.0000 | | |
| Chromium, Total | ug/L | MW-36A | 10/17/2022 | ND | 10.0000 | | |
| Chromium, Total | ug/L | MW-36A | 05/22/2023 | ND | 10.0000 | | |
| Chromium, Total | ug/L | MW-36A | 05/12/2025 | ND | 10.0000 | | |
| Cobalt, Total | ug/L | MW-36A | 04/13/2010 | ND | 10.0000 | 2.8000 | ** |
| Cobalt, Total | ug/L | MW-36A | 05/18/2010 | ND | 10.0000 | 2.8000 | ** |
| Cobalt, Total | ug/L | MW-36A | 06/21/2010 | ND | 10.0000 | 2.8000 | ** |
| Cobalt, Total | ug/L | MW-36A | 08/18/2010 | ND | 10.0000 | 2.8000 | ** |
| Cobalt, Total | ug/L | MW-36A | 10/18/2010 | ND | 10.0000 | 2.8000 | ** |
| Cobalt, Total | ug/L | MW-36A | 05/10/2011 | ND | 10.0000 | 2.8000 | ** |

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

## Table 1

### Upgradient Data

| Constituent | Units | Well | Date | | Result | Adjusted | |
|---|---|---|---|---|---|---|---|
| Cobalt, Total | ug/L | MW-36A | 10/19/2011 | ND | 10.0000 | 2.8000 | ** |
| Cobalt, Total | ug/L | MW-36A | 04/24/2012 | ND | 10.0000 | 2.8000 | ** |
| Cobalt, Total | ug/L | MW-36A | 10/25/2012 | ND | 10.0000 | 2.8000 | ** |
| Cobalt, Total | ug/L | MW-36A | 05/07/2013 | ND | 10.0000 | 2.8000 | ** |
| Cobalt, Total | ug/L | MW-36A | 11/11/2013 | ND | 10.0000 | 2.8000 | ** |
| Cobalt, Total | ug/L | MW-36A | 05/13/2014 | ND | 10.0000 | 2.8000 | ** |
| Cobalt, Total | ug/L | MW-36A | 11/12/2014 | ND | 10.0000 | 2.8000 | ** |
| Cobalt, Total | ug/L | MW-36A | 05/27/2015 | ND | 2.8000 | | |
| Cobalt, Total | ug/L | MW-36A | 11/18/2015 | ND | 2.8000 | | |
| Cobalt, Total | ug/L | MW-36A | 06/16/2016 | ND | 2.8000 | | |
| Cobalt, Total | ug/L | MW-36A | 11/16/2016 | ND | 2.8000 | | |
| Cobalt, Total | ug/L | MW-36A | 05/30/2017 | ND | 2.8000 | | |
| Cobalt, Total | ug/L | MW-36A | 11/21/2017 | ND | 2.8000 | | |
| Cobalt, Total | ug/L | MW-36A | 05/31/2018 | ND | 2.8000 | | |
| Cobalt, Total | ug/L | MW-36A | 10/31/2018 | ND | 2.8000 | | |
| Cobalt, Total | ug/L | MW-36A | 10/15/2019 | ND | 2.1000 | 2.8000 | ** |
| Cobalt, Total | ug/L | MW-36A | 05/03/2021 | ND | 2.0000 | 2.8000 | ** |
| Cobalt, Total | ug/L | MW-36A | 01/13/2022 | ND | 2.0000 | 2.8000 | ** |
| Cobalt, Total | ug/L | MW-36A | 05/17/2022 | ND | 2.0000 | 2.8000 | ** |
| Cobalt, Total | ug/L | MW-36A | 10/17/2022 | ND | 2.0000 | 2.8000 | ** |
| Cobalt, Total | ug/L | MW-36A | 05/22/2023 | ND | 2.0000 | 2.8000 | ** |
| Cobalt, Total | ug/L | MW-36A | 05/12/2025 | ND | 2.0000 | 2.8000 | ** |
| Copper, Total | ug/L | MW-36A | 04/13/2010 | ND | 10.0000 | | |
| Copper, Total | ug/L | MW-36A | 05/18/2010 | ND | 10.0000 | | |
| Copper, Total | ug/L | MW-36A | 06/21/2010 | ND | 10.0000 | | |
| Copper, Total | ug/L | MW-36A | 08/18/2010 | ND | 10.0000 | | |
| Copper, Total | ug/L | MW-36A | 10/18/2010 | ND | 10.0000 | | |
| Copper, Total | ug/L | MW-36A | 05/10/2011 | ND | 10.0000 | | |
| Copper, Total | ug/L | MW-36A | 10/19/2011 | ND | 10.0000 | | |
| Copper, Total | ug/L | MW-36A | 04/24/2012 | ND | 10.0000 | | |
| Copper, Total | ug/L | MW-36A | 10/25/2012 | ND | 10.0000 | | |
| Copper, Total | ug/L | MW-36A | 05/07/2013 | ND | 10.0000 | | |
| Copper, Total | ug/L | MW-36A | 11/11/2013 | ND | 10.0000 | | |
| Copper, Total | ug/L | MW-36A | 05/13/2014 | ND | 10.0000 | | |
| Copper, Total | ug/L | MW-36A | 11/12/2014 | ND | 10.0000 | | |
| Copper, Total | ug/L | MW-36A | 05/27/2015 | ND | 10.0000 | | |
| Copper, Total | ug/L | MW-36A | 11/18/2015 | ND | 10.0000 | | |
| Copper, Total | ug/L | MW-36A | 06/16/2016 | ND | 10.0000 | | |
| Copper, Total | ug/L | MW-36A | 11/16/2016 | ND | 10.0000 | | |
| Copper, Total | ug/L | MW-36A | 05/30/2017 | ND | 10.0000 | | |
| Copper, Total | ug/L | MW-36A | 11/21/2017 | ND | 10.0000 | | |
| Copper, Total | ug/L | MW-36A | 05/31/2018 | ND | 10.0000 | | |
| Copper, Total | ug/L | MW-36A | 10/31/2018 | ND | 10.0000 | | |
| Copper, Total | ug/L | MW-36A | 10/15/2019 | ND | 10.0000 | | |
| Copper, Total | ug/L | MW-36A | 05/03/2021 | ND | 10.0000 | | |
| Copper, Total | ug/L | MW-36A | 01/13/2022 | ND | 10.0000 | | |
| Copper, Total | ug/L | MW-36A | 05/17/2022 | ND | 10.0000 | | |
| Copper, Total | ug/L | MW-36A | 10/17/2022 | ND | 10.0000 | | |
| Copper, Total | ug/L | MW-36A | 05/22/2023 | ND | 10.0000 | | |
| Copper, Total | ug/L | MW-36A | 05/12/2025 | ND | 10.0000 | | |
| Lead, Total | ug/L | MW-36A | 04/13/2010 | ND | 10.0000 | | |
| Lead, Total | ug/L | MW-36A | 05/18/2010 | ND | 10.0000 | | |
| Lead, Total | ug/L | MW-36A | 06/21/2010 | ND | 10.0000 | | |
| Lead, Total | ug/L | MW-36A | 08/18/2010 | ND | 10.0000 | | |
| Lead, Total | ug/L | MW-36A | 10/18/2010 | ND | 10.0000 | | |
| Lead, Total | ug/L | MW-36A | 05/10/2011 | ND | 10.0000 | | |
| Lead, Total | ug/L | MW-36A | 10/19/2011 | ND | 10.0000 | | |
| Lead, Total | ug/L | MW-36A | 04/24/2012 | ND | 10.0000 | | |
| Lead, Total | ug/L | MW-36A | 10/25/2012 | ND | 10.0000 | | |
| Lead, Total | ug/L | MW-36A | 05/07/2013 | ND | 10.0000 | | |
| Lead, Total | ug/L | MW-36A | 11/11/2013 | ND | 10.0000 | | |
| Lead, Total | ug/L | MW-36A | 05/13/2014 | ND | 10.0000 | | |
| Lead, Total | ug/L | MW-36A | 11/12/2014 | ND | 10.0000 | | |
| Lead, Total | ug/L | MW-36A | 05/27/2015 | ND | 10.0000 | | |
| Lead, Total | ug/L | MW-36A | 11/18/2015 | ND | 10.0000 | | |
| Lead, Total | ug/L | MW-36A | 06/16/2016 | ND | 10.0000 | | |
| Lead, Total | ug/L | MW-36A | 11/16/2016 | ND | 10.0000 | | |
| Lead, Total | ug/L | MW-36A | 05/30/2017 | ND | 10.0000 | | |
| Lead, Total | ug/L | MW-36A | 11/21/2017 | ND | 10.0000 | | |
| Lead, Total | ug/L | MW-36A | 05/31/2018 | ND | 10.0000 | | |
| Lead, Total | ug/L | MW-36A | 10/31/2018 | ND | 10.0000 | | |
| Lead, Total | ug/L | MW-36A | 10/15/2019 | ND | 10.0000 | | |
| Lead, Total | ug/L | MW-36A | 05/03/2021 | ND | 10.0000 | | |
| Lead, Total | ug/L | MW-36A | 01/13/2022 | ND | 10.0000 | | |

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

## Table 1

### Upgradient Data

| Constituent | Units | Well | Date | | Result | Adjusted | |
|---|---|---|---|---|---|---|---|
| Lead, Total | ug/L | MW-36A | 05/17/2022 | ND | 10.0000 | | |
| Lead, Total | ug/L | MW-36A | 10/17/2022 | ND | 10.0000 | | |
| Lead, Total | ug/L | MW-36A | 05/22/2023 | ND | 10.0000 | | |
| Lead, Total | ug/L | MW-36A | 05/12/2025 | ND | 10.0000 | | |
| Nickel, Total | ug/L | MW-36A | 04/13/2010 | ND | 10.0000 | | |
| Nickel, Total | ug/L | MW-36A | 05/18/2010 | ND | 10.0000 | | |
| Nickel, Total | ug/L | MW-36A | 06/21/2010 | ND | 10.0000 | | |
| Nickel, Total | ug/L | MW-36A | 08/18/2010 | ND | 10.0000 | | |
| Nickel, Total | ug/L | MW-36A | 10/18/2010 | ND | 10.0000 | | |
| Nickel, Total | ug/L | MW-36A | 05/10/2011 | ND | 10.0000 | | |
| Nickel, Total | ug/L | MW-36A | 10/19/2011 | ND | 10.0000 | | |
| Nickel, Total | ug/L | MW-36A | 04/24/2012 | ND | 10.0000 | | |
| Nickel, Total | ug/L | MW-36A | 10/25/2012 | ND | 10.0000 | | |
| Nickel, Total | ug/L | MW-36A | 05/07/2013 | ND | 10.0000 | | |
| Nickel, Total | ug/L | MW-36A | 11/11/2013 | ND | 10.0000 | | |
| Nickel, Total | ug/L | MW-36A | 05/13/2014 | ND | 10.0000 | | |
| Nickel, Total | ug/L | MW-36A | 11/12/2014 | ND | 10.0000 | | |
| Nickel, Total | ug/L | MW-36A | 05/27/2015 | ND | 10.0000 | | |
| Nickel, Total | ug/L | MW-36A | 11/18/2015 | ND | 10.0000 | | |
| Nickel, Total | ug/L | MW-36A | 06/16/2016 | ND | 10.0000 | | |
| Nickel, Total | ug/L | MW-36A | 11/16/2016 | ND | 10.0000 | | |
| Nickel, Total | ug/L | MW-36A | 05/30/2017 | ND | 10.0000 | | |
| Nickel, Total | ug/L | MW-36A | 11/21/2017 | ND | 10.0000 | | |
| Nickel, Total | ug/L | MW-36A | 05/31/2018 | ND | 10.0000 | | |
| Nickel, Total | ug/L | MW-36A | 10/31/2018 | ND | 10.0000 | | |
| Nickel, Total | ug/L | MW-36A | 10/15/2019 | ND | 10.0000 | | |
| Nickel, Total | ug/L | MW-36A | 05/03/2021 | ND | 10.0000 | | |
| Nickel, Total | ug/L | MW-36A | 01/13/2022 | ND | 10.0000 | | |
| Nickel, Total | ug/L | MW-36A | 05/17/2022 | ND | 10.0000 | | |
| Nickel, Total | ug/L | MW-36A | 10/17/2022 | ND | 10.0000 | | |
| Nickel, Total | ug/L | MW-36A | 05/22/2023 | ND | 10.0000 | | |
| Nickel, Total | ug/L | MW-36A | 05/12/2025 | | 71.3000 | | * |
| Selenium, Total | ug/L | MW-36A | 04/13/2010 | ND | 10.0000 | | |
| Selenium, Total | ug/L | MW-36A | 05/18/2010 | ND | 10.0000 | | |
| Selenium, Total | ug/L | MW-36A | 06/21/2010 | ND | 10.0000 | | |
| Selenium, Total | ug/L | MW-36A | 08/18/2010 | ND | 10.0000 | | |
| Selenium, Total | ug/L | MW-36A | 10/18/2010 | ND | 10.0000 | | |
| Selenium, Total | ug/L | MW-36A | 05/10/2011 | ND | 10.0000 | | |
| Selenium, Total | ug/L | MW-36A | 10/19/2011 | ND | 10.0000 | | |
| Selenium, Total | ug/L | MW-36A | 04/24/2012 | ND | 10.0000 | | |
| Selenium, Total | ug/L | MW-36A | 10/25/2012 | ND | 10.0000 | | |
| Selenium, Total | ug/L | MW-36A | 05/07/2013 | ND | 10.0000 | | |
| Selenium, Total | ug/L | MW-36A | 11/11/2013 | ND | 10.0000 | | |
| Selenium, Total | ug/L | MW-36A | 05/13/2014 | ND | 10.0000 | | |
| Selenium, Total | ug/L | MW-36A | 11/12/2014 | ND | 10.0000 | | |
| Selenium, Total | ug/L | MW-36A | 05/27/2015 | ND | 10.0000 | | |
| Selenium, Total | ug/L | MW-36A | 11/18/2015 | ND | 10.0000 | | |
| Selenium, Total | ug/L | MW-36A | 06/16/2016 | | 46.0000 | | * |
| Selenium, Total | ug/L | MW-36A | 11/16/2016 | ND | 10.0000 | | |
| Selenium, Total | ug/L | MW-36A | 05/30/2017 | | 38.0000 | | * |
| Selenium, Total | ug/L | MW-36A | 11/21/2017 | ND | 10.0000 | | |
| Selenium, Total | ug/L | MW-36A | 05/31/2018 | ND | 10.0000 | | |
| Selenium, Total | ug/L | MW-36A | 10/31/2018 | ND | 10.0000 | | |
| Selenium, Total | ug/L | MW-36A | 10/15/2019 | ND | 10.0000 | | |
| Selenium, Total | ug/L | MW-36A | 05/03/2021 | ND | 10.0000 | | |
| Selenium, Total | ug/L | MW-36A | 01/13/2022 | ND | 10.0000 | | |
| Selenium, Total | ug/L | MW-36A | 05/17/2022 | ND | 10.0000 | | |
| Selenium, Total | ug/L | MW-36A | 10/17/2022 | ND | 10.0000 | | |
| Selenium, Total | ug/L | MW-36A | 05/22/2023 | ND | 10.0000 | | |
| Selenium, Total | ug/L | MW-36A | 05/12/2025 | ND | 10.0000 | | |
| Silver, Total | ug/L | MW-36A | 04/13/2010 | ND | 10.0000 | | |
| Silver, Total | ug/L | MW-36A | 05/18/2010 | ND | 10.0000 | | |
| Silver, Total | ug/L | MW-36A | 06/21/2010 | ND | 10.0000 | | |
| Silver, Total | ug/L | MW-36A | 08/18/2010 | ND | 10.0000 | | |
| Silver, Total | ug/L | MW-36A | 10/18/2010 | ND | 10.0000 | | |
| Silver, Total | ug/L | MW-36A | 05/10/2011 | ND | 10.0000 | | |
| Silver, Total | ug/L | MW-36A | 10/19/2011 | ND | 10.0000 | | |
| Silver, Total | ug/L | MW-36A | 04/24/2012 | ND | 10.0000 | | |
| Silver, Total | ug/L | MW-36A | 10/25/2012 | ND | 10.0000 | | |
| Silver, Total | ug/L | MW-36A | 05/07/2013 | ND | 10.0000 | | |
| Silver, Total | ug/L | MW-36A | 11/11/2013 | ND | 10.0000 | | |
| Silver, Total | ug/L | MW-36A | 05/13/2014 | ND | 10.0000 | | |
| Silver, Total | ug/L | MW-36A | 11/12/2014 | ND | 10.0000 | | |
| Silver, Total | ug/L | MW-36A | 05/27/2015 | ND | 10.0000 | | |

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

## Table 1

### Upgradient Data

| Constituent | Units | Well | Date | | Result | Adjusted | |
|---|---|---|---|---|---|---|---|
| Silver, Total | ug/L | MW-36A | 11/18/2015 | ND | 10.0000 | | |
| Silver, Total | ug/L | MW-36A | 06/16/2016 | ND | 10.0000 | | |
| Silver, Total | ug/L | MW-36A | 11/16/2016 | ND | 10.0000 | | |
| Silver, Total | ug/L | MW-36A | 05/30/2017 | ND | 10.0000 | | |
| Silver, Total | ug/L | MW-36A | 11/21/2017 | ND | 10.0000 | | |
| Silver, Total | ug/L | MW-36A | 05/31/2018 | ND | 10.0000 | | |
| Silver, Total | ug/L | MW-36A | 10/31/2018 | ND | 10.0000 | | |
| Silver, Total | ug/L | MW-36A | 10/15/2019 | ND | 10.0000 | | |
| Silver, Total | ug/L | MW-36A | 05/03/2021 | ND | 10.0000 | | |
| Silver, Total | ug/L | MW-36A | 01/13/2022 | ND | 10.0000 | | |
| Silver, Total | ug/L | MW-36A | 05/17/2022 | ND | 10.0000 | | |
| Silver, Total | ug/L | MW-36A | 10/17/2022 | ND | 10.0000 | | |
| Silver, Total | ug/L | MW-36A | 05/22/2023 | ND | 10.0000 | | |
| Silver, Total | ug/L | MW-36A | 05/12/2025 | ND | 10.0000 | | |
| Thallium, Total | ug/L | MW-36A | 04/13/2010 | ND | 2.0000 | | |
| Thallium, Total | ug/L | MW-36A | 05/18/2010 | ND | 2.0000 | | |
| Thallium, Total | ug/L | MW-36A | 06/21/2010 | ND | 2.0000 | | |
| Thallium, Total | ug/L | MW-36A | 08/18/2010 | ND | 2.0000 | | |
| Thallium, Total | ug/L | MW-36A | 10/18/2010 | ND | 2.0000 | | |
| Thallium, Total | ug/L | MW-36A | 05/10/2011 | ND | 2.0000 | | |
| Thallium, Total | ug/L | MW-36A | 10/19/2011 | ND | 2.0000 | | |
| Thallium, Total | ug/L | MW-36A | 04/24/2012 | ND | 2.0000 | | |
| Thallium, Total | ug/L | MW-36A | 10/25/2012 | ND | 2.0000 | | |
| Thallium, Total | ug/L | MW-36A | 05/07/2013 | ND | 2.0000 | | |
| Thallium, Total | ug/L | MW-36A | 11/11/2013 | ND | 2.0000 | | |
| Thallium, Total | ug/L | MW-36A | 05/13/2014 | ND | 2.0000 | | |
| Thallium, Total | ug/L | MW-36A | 11/12/2014 | ND | 2.0000 | | |
| Thallium, Total | ug/L | MW-36A | 05/27/2015 | ND | 2.0000 | | |
| Thallium, Total | ug/L | MW-36A | 11/18/2015 | ND | 2.0000 | | |
| Thallium, Total | ug/L | MW-36A | 06/16/2016 | ND | 2.0000 | | |
| Thallium, Total | ug/L | MW-36A | 11/16/2016 | ND | 2.0000 | | |
| Thallium, Total | ug/L | MW-36A | 05/30/2017 | ND | 2.0000 | | |
| Thallium, Total | ug/L | MW-36A | 11/21/2017 | ND | 2.0000 | | |
| Thallium, Total | ug/L | MW-36A | 05/31/2018 | ND | 2.0000 | | |
| Thallium, Total | ug/L | MW-36A | 10/31/2018 | ND | 2.0000 | | |
| Thallium, Total | ug/L | MW-36A | 10/15/2019 | ND | 2.0000 | | |
| Thallium, Total | ug/L | MW-36A | 05/03/2021 | ND | 2.0000 | | |
| Thallium, Total | ug/L | MW-36A | 01/13/2022 | ND | 2.0000 | | |
| Thallium, Total | ug/L | MW-36A | 05/17/2022 | ND | 2.0000 | | |
| Thallium, Total | ug/L | MW-36A | 10/17/2022 | ND | 2.0000 | | |
| Thallium, Total | ug/L | MW-36A | 05/22/2023 | ND | 2.0000 | | |
| Thallium, Total | ug/L | MW-36A | 05/12/2025 | ND | 2.0000 | | |
| Vanadium, Total | ug/L | MW-36A | 04/13/2010 | ND | 20.0000 | | |
| Vanadium, Total | ug/L | MW-36A | 05/18/2010 | ND | 20.0000 | | |
| Vanadium, Total | ug/L | MW-36A | 06/21/2010 | ND | 20.0000 | | |
| Vanadium, Total | ug/L | MW-36A | 08/18/2010 | ND | 20.0000 | | |
| Vanadium, Total | ug/L | MW-36A | 10/18/2010 | ND | 20.0000 | | |
| Vanadium, Total | ug/L | MW-36A | 05/10/2011 | ND | 20.0000 | | |
| Vanadium, Total | ug/L | MW-36A | 10/19/2011 | ND | 20.0000 | | |
| Vanadium, Total | ug/L | MW-36A | 04/24/2012 | ND | 20.0000 | | |
| Vanadium, Total | ug/L | MW-36A | 10/25/2012 | ND | 20.0000 | | |
| Vanadium, Total | ug/L | MW-36A | 05/07/2013 | ND | 20.0000 | | |
| Vanadium, Total | ug/L | MW-36A | 11/11/2013 | ND | 20.0000 | | |
| Vanadium, Total | ug/L | MW-36A | 05/13/2014 | ND | 20.0000 | | |
| Vanadium, Total | ug/L | MW-36A | 11/12/2014 | ND | 20.0000 | | |
| Vanadium, Total | ug/L | MW-36A | 05/27/2015 | ND | 20.0000 | | |
| Vanadium, Total | ug/L | MW-36A | 11/18/2015 | ND | 20.0000 | | |
| Vanadium, Total | ug/L | MW-36A | 06/16/2016 | ND | 20.0000 | | |
| Vanadium, Total | ug/L | MW-36A | 11/16/2016 | ND | 20.0000 | | |
| Vanadium, Total | ug/L | MW-36A | 05/30/2017 | ND | 20.0000 | | |
| Vanadium, Total | ug/L | MW-36A | 11/21/2017 | ND | 20.0000 | | |
| Vanadium, Total | ug/L | MW-36A | 05/31/2018 | ND | 20.0000 | | |
| Vanadium, Total | ug/L | MW-36A | 10/31/2018 | ND | 20.0000 | | |
| Vanadium, Total | ug/L | MW-36A | 10/15/2019 | ND | 20.0000 | | |
| Vanadium, Total | ug/L | MW-36A | 05/03/2021 | ND | 20.0000 | | |
| Vanadium, Total | ug/L | MW-36A | 01/13/2022 | ND | 20.0000 | | |
| Vanadium, Total | ug/L | MW-36A | 05/17/2022 | ND | 20.0000 | | |
| Vanadium, Total | ug/L | MW-36A | 10/17/2022 | ND | 20.0000 | | |
| Vanadium, Total | ug/L | MW-36A | 05/22/2023 | ND | 20.0000 | | |
| Vanadium, Total | ug/L | MW-36A | 05/12/2025 | ND | 20.0000 | | |
| Zinc, Total | ug/L | MW-36A | 04/13/2010 | ND | 20.0000 | | |
| Zinc, Total | ug/L | MW-36A | 05/18/2010 | ND | 20.0000 | | |
| Zinc, Total | ug/L | MW-36A | 06/21/2010 | ND | 20.0000 | | |
| Zinc, Total | ug/L | MW-36A | 08/18/2010 | ND | 20.0000 | | |

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

## Table 1

### Upgradient Data

| Constituent | Units | Well | Date | | Result | Adjusted | |
|---|---|---|---|---|---|---|---|
| Zinc, Total | ug/L | MW-36A | 10/18/2010 | ND | 20.0000 | | |
| Zinc, Total | ug/L | MW-36A | 05/10/2011 | ND | 20.0000 | | |
| Zinc, Total | ug/L | MW-36A | 10/19/2011 | ND | 20.0000 | | |
| Zinc, Total | ug/L | MW-36A | 04/24/2012 | ND | 20.0000 | | |
| Zinc, Total | ug/L | MW-36A | 10/25/2012 | ND | 20.0000 | | |
| Zinc, Total | ug/L | MW-36A | 05/07/2013 | ND | 20.0000 | | |
| Zinc, Total | ug/L | MW-36A | 11/11/2013 | ND | 20.0000 | | |
| Zinc, Total | ug/L | MW-36A | 05/13/2014 | ND | 20.0000 | | |
| Zinc, Total | ug/L | MW-36A | 11/12/2014 | ND | 20.0000 | | |
| Zinc, Total | ug/L | MW-36A | 05/27/2015 | ND | 20.0000 | | |
| Zinc, Total | ug/L | MW-36A | 11/18/2015 | ND | 20.0000 | | |
| Zinc, Total | ug/L | MW-36A | 06/16/2016 | ND | 20.0000 | | |
| Zinc, Total | ug/L | MW-36A | 11/16/2016 | ND | 20.0000 | | |
| Zinc, Total | ug/L | MW-36A | 05/30/2017 | ND | 20.0000 | | |
| Zinc, Total | ug/L | MW-36A | 11/21/2017 | ND | 20.0000 | | |
| Zinc, Total | ug/L | MW-36A | 05/31/2018 | ND | 20.0000 | | |
| Zinc, Total | ug/L | MW-36A | 10/31/2018 | ND | 20.0000 | | |
| Zinc, Total | ug/L | MW-36A | 10/15/2019 | ND | 20.0000 | | |
| Zinc, Total | ug/L | MW-36A | 05/03/2021 | ND | 50.0000 | 20.0000 | ** |
| Zinc, Total | ug/L | MW-36A | 01/13/2022 | ND | 50.0000 | 20.0000 | ** |
| Zinc, Total | ug/L | MW-36A | 05/17/2022 | ND | 50.0000 | 20.0000 | ** |
| Zinc, Total | ug/L | MW-36A | 10/17/2022 | ND | 50.0000 | 20.0000 | ** |
| Zinc, Total | ug/L | MW-36A | 05/22/2023 | ND | 50.0000 | 20.0000 | ** |
| Zinc, Total | ug/L | MW-36A | 05/12/2025 | ND | 50.0000 | 20.0000 | ** |

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

## Table 2

## Most Current Downgradient Monitoring Data

| Constituent | Units | Well | Date | | Result | | Pred. Limit |
|---|---|---|---|---|---|---|---|
| Antimony, Total | ug/L | Holding Pond | 10/14/2025 | ND | 6.0000 | | 6.0000 |
| Arsenic, Total | ug/L | Holding Pond | 10/14/2025 | | 10.9000 | * | 10.0000 |
| Barium, Total | ug/L | Holding Pond | 10/14/2025 | | 178.0000 | | 451.0000 |
| Beryllium, Total | ug/L | Holding Pond | 10/14/2025 | ND | 4.0000 | | 4.0000 |
| Cadmium, Total | ug/L | Holding Pond | 10/14/2025 | ND | 5.0000 | | 5.0000 |
| Chromium, Total | ug/L | Holding Pond | 10/14/2025 | ND | 10.0000 | | 13.0000 |
| Cobalt, Total | ug/L | Holding Pond | 10/14/2025 | ND | 2.0000 | | 11.0000 |
| Copper, Total | ug/L | Holding Pond | 10/14/2025 | ND | 10.0000 | | 15.0000 |
| Lead, Total | ug/L | Holding Pond | 10/14/2025 | ND | 10.0000 | | 10.0000 |
| Nickel, Total | ug/L | Holding Pond | 10/14/2025 | | 14.2000 | ** | 21.0000 |
| Selenium, Total | ug/L | Holding Pond | 10/14/2025 | ND | 10.0000 | | 25.0000 |
| Silver, Total | ug/L | Holding Pond | 10/14/2025 | ND | 10.0000 | | 10.0000 |
| Thallium, Total | ug/L | Holding Pond | 10/14/2025 | ND | 2.0000 | | 2.0000 |
| Vanadium, Total | ug/L | Holding Pond | 10/14/2025 | ND | 20.0000 | | 33.0000 |
| Zinc, Total | ug/L | Holding Pond | 10/14/2025 | ND | 50.0000 | | 32.0000 |
| Antimony, Total | ug/L | MW-12A | 10/14/2025 | ND | 6.0000 | | 6.0000 |
| Arsenic, Total | ug/L | MW-12A | 10/14/2025 | ND | 10.0000 | | 10.0000 |
| Barium, Total | ug/L | MW-12A | 10/14/2025 | | 283.0000 | | 451.0000 |
| Beryllium, Total | ug/L | MW-12A | 10/14/2025 | ND | 4.0000 | | 4.0000 |
| Cadmium, Total | ug/L | MW-12A | 10/14/2025 | ND | 5.0000 | | 5.0000 |
| Chromium, Total | ug/L | MW-12A | 10/14/2025 | ND | 10.0000 | | 13.0000 |
| Cobalt, Total | ug/L | MW-12A | 10/14/2025 | | 2.5500 | | 11.0000 |
| Copper, Total | ug/L | MW-12A | 10/14/2025 | ND | 10.0000 | | 15.0000 |
| Lead, Total | ug/L | MW-12A | 10/14/2025 | ND | 10.0000 | | 10.0000 |
| Nickel, Total | ug/L | MW-12A | 10/14/2025 | | 15.4000 | | 21.0000 |
| Selenium, Total | ug/L | MW-12A | 10/14/2025 | ND | 10.0000 | | 25.0000 |
| Silver, Total | ug/L | MW-12A | 10/14/2025 | ND | 10.0000 | | 10.0000 |
| Thallium, Total | ug/L | MW-12A | 10/14/2025 | ND | 2.0000 | | 2.0000 |
| Vanadium, Total | ug/L | MW-12A | 10/14/2025 | ND | 20.0000 | | 33.0000 |
| Zinc, Total | ug/L | MW-12A | 10/14/2025 | ND | 50.0000 | | 32.0000 |
| Antimony, Total | ug/L | MW-19A | 10/14/2025 | ND | 6.0000 | | 6.0000 |
| Arsenic, Total | ug/L | MW-19A | 10/14/2025 | ND | 10.0000 | | 10.0000 |
| Barium, Total | ug/L | MW-19A | 10/14/2025 | | 186.0000 | | 451.0000 |
| Beryllium, Total | ug/L | MW-19A | 10/14/2025 | ND | 4.0000 | | 4.0000 |
| Cadmium, Total | ug/L | MW-19A | 10/14/2025 | ND | 5.0000 | | 5.0000 |
| Chromium, Total | ug/L | MW-19A | 10/14/2025 | ND | 10.0000 | | 13.0000 |
| Cobalt, Total | ug/L | MW-19A | 10/14/2025 | ND | 2.0000 | | 11.0000 |
| Copper, Total | ug/L | MW-19A | 10/14/2025 | ND | 10.0000 | | 15.0000 |
| Lead, Total | ug/L | MW-19A | 10/14/2025 | ND | 10.0000 | | 10.0000 |
| Nickel, Total | ug/L | MW-19A | 10/14/2025 | | 33.5000 | *** | 21.0000 |
| Selenium, Total | ug/L | MW-19A | 10/14/2025 | ND | 10.0000 | | 25.0000 |
| Silver, Total | ug/L | MW-19A | 10/14/2025 | ND | 10.0000 | | 10.0000 |
| Thallium, Total | ug/L | MW-19A | 10/14/2025 | ND | 2.0000 | | 2.0000 |
| Vanadium, Total | ug/L | MW-19A | 10/14/2025 | ND | 20.0000 | | 33.0000 |
| Zinc, Total | ug/L | MW-19A | 10/14/2025 | ND | 50.0000 | | 32.0000 |
| Antimony, Total | ug/L | MW-21A | 10/14/2025 | ND | 6.0000 | | 6.0000 |
| Arsenic, Total | ug/L | MW-21A | 10/14/2025 | ND | 10.0000 | | 10.0000 |
| Barium, Total | ug/L | MW-21A | 10/14/2025 | | 291.0000 | | 451.0000 |
| Beryllium, Total | ug/L | MW-21A | 10/14/2025 | ND | 4.0000 | | 4.0000 |
| Cadmium, Total | ug/L | MW-21A | 10/14/2025 | ND | 5.0000 | | 5.0000 |
| Chromium, Total | ug/L | MW-21A | 10/14/2025 | ND | 10.0000 | | 13.0000 |
| Cobalt, Total | ug/L | MW-21A | 10/14/2025 | ND | 2.0000 | | 11.0000 |
| Copper, Total | ug/L | MW-21A | 10/14/2025 | ND | 10.0000 | | 15.0000 |
| Lead, Total | ug/L | MW-21A | 10/14/2025 | ND | 10.0000 | | 10.0000 |
| Nickel, Total | ug/L | MW-21A | 10/14/2025 | ND | 10.0000 | | 21.0000 |
| Selenium, Total | ug/L | MW-21A | 10/14/2025 | ND | 10.0000 | | 25.0000 |
| Silver, Total | ug/L | MW-21A | 10/14/2025 | ND | 10.0000 | | 10.0000 |
| Thallium, Total | ug/L | MW-21A | 10/14/2025 | ND | 2.0000 | | 2.0000 |
| Vanadium, Total | ug/L | MW-21A | 10/14/2025 | ND | 20.0000 | | 33.0000 |
| Zinc, Total | ug/L | MW-21A | 10/14/2025 | ND | 50.0000 | | 32.0000 |
| Antimony, Total | ug/L | MW-23A | 10/14/2025 | ND | 6.0000 | | 6.0000 |
| Arsenic, Total | ug/L | MW-23A | 10/14/2025 | | 12.2000 | *** | 10.0000 |
| Barium, Total | ug/L | MW-23A | 10/14/2025 | | 1070.0000 | *** | 451.0000 |
| Beryllium, Total | ug/L | MW-23A | 10/14/2025 | ND | 4.0000 | | 4.0000 |
| Cadmium, Total | ug/L | MW-23A | 10/14/2025 | ND | 5.0000 | | 5.0000 |
| Chromium, Total | ug/L | MW-23A | 10/14/2025 | ND | 10.0000 | | 13.0000 |
| Cobalt, Total | ug/L | MW-23A | 10/14/2025 | | 3.1800 | ** | 11.0000 |
| Copper, Total | ug/L | MW-23A | 10/14/2025 | ND | 10.0000 | | 15.0000 |
| Lead, Total | ug/L | MW-23A | 10/14/2025 | ND | 10.0000 | | 10.0000 |
| Nickel, Total | ug/L | MW-23A | 10/14/2025 | ND | 10.0000 | | 21.0000 |
| Selenium, Total | ug/L | MW-23A | 10/14/2025 | ND | 10.0000 | | 25.0000 |
| Silver, Total | ug/L | MW-23A | 10/14/2025 | ND | 10.0000 | | 10.0000 |

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

## Table 2

## Most Current Downgradient Monitoring Data

| Constituent | Units | Well | Date | | Result | | Pred. Limit |
|---|---|---|---|---|---|---|---|
| Thallium, Total | ug/L | MW-23A | 10/14/2025 | ND | 2.0000 | | 2.0000 |
| Vanadium, Total | ug/L | MW-23A | 10/14/2025 | ND | 20.0000 | | 33.0000 |
| Zinc, Total | ug/L | MW-23A | 10/14/2025 | ND | 50.0000 | | 32.0000 |
| Antimony, Total | ug/L | MW-37A | 10/14/2025 | ND | 6.0000 | | 6.0000 |
| Arsenic, Total | ug/L | MW-37A | 10/14/2025 | | 55.6000 | *** | 10.0000 |
| Barium, Total | ug/L | MW-37A | 10/14/2025 | | 1230.0000 | *** | 451.0000 |
| Beryllium, Total | ug/L | MW-37A | 10/14/2025 | ND | 4.0000 | | 4.0000 |
| Cadmium, Total | ug/L | MW-37A | 10/14/2025 | ND | 5.0000 | | 5.0000 |
| Chromium, Total | ug/L | MW-37A | 10/14/2025 | ND | 10.0000 | | 13.0000 |
| Cobalt, Total | ug/L | MW-37A | 10/14/2025 | | 21.2000 | *** | 11.0000 |
| Copper, Total | ug/L | MW-37A | 10/14/2025 | ND | 10.0000 | | 15.0000 |
| Lead, Total | ug/L | MW-37A | 10/14/2025 | ND | 10.0000 | | 10.0000 |
| Nickel, Total | ug/L | MW-37A | 10/14/2025 | | 289.0000 | *** | 21.0000 |
| Selenium, Total | ug/L | MW-37A | 10/14/2025 | ND | 10.0000 | | 25.0000 |
| Silver, Total | ug/L | MW-37A | 10/14/2025 | ND | 10.0000 | | 10.0000 |
| Thallium, Total | ug/L | MW-37A | 10/14/2025 | ND | 2.0000 | | 2.0000 |
| Vanadium, Total | ug/L | MW-37A | 10/14/2025 | ND | 20.0000 | | 33.0000 |
| Zinc, Total | ug/L | MW-37A | 10/14/2025 | ND | 50.0000 | | 32.0000 |
| Antimony, Total | ug/L | MW-38A | 10/14/2025 | ND | 6.0000 | | 6.0000 |
| Arsenic, Total | ug/L | MW-38A | 10/14/2025 | ND | 10.0000 | | 10.0000 |
| Barium, Total | ug/L | MW-38A | 10/14/2025 | | 204.0000 | | 451.0000 |
| Beryllium, Total | ug/L | MW-38A | 10/14/2025 | ND | 4.0000 | | 4.0000 |
| Cadmium, Total | ug/L | MW-38A | 10/14/2025 | ND | 5.0000 | | 5.0000 |
| Chromium, Total | ug/L | MW-38A | 10/14/2025 | ND | 10.0000 | | 13.0000 |
| Cobalt, Total | ug/L | MW-38A | 10/14/2025 | ND | 2.0000 | | 11.0000 |
| Copper, Total | ug/L | MW-38A | 10/14/2025 | ND | 10.0000 | | 15.0000 |
| Lead, Total | ug/L | MW-38A | 10/14/2025 | ND | 10.0000 | | 10.0000 |
| Nickel, Total | ug/L | MW-38A | 10/14/2025 | | 31.5000 | *** | 21.0000 |
| Selenium, Total | ug/L | MW-38A | 10/14/2025 | ND | 10.0000 | | 25.0000 |
| Silver, Total | ug/L | MW-38A | 10/14/2025 | ND | 10.0000 | | 10.0000 |
| Thallium, Total | ug/L | MW-38A | 10/14/2025 | ND | 2.0000 | | 2.0000 |
| Vanadium, Total | ug/L | MW-38A | 10/14/2025 | ND | 20.0000 | | 33.0000 |
| Zinc, Total | ug/L | MW-38A | 10/14/2025 | ND | 50.0000 | | 32.0000 |
| Antimony, Total | ug/L | MW-39A | 10/14/2025 | ND | 6.0000 | | 6.0000 |
| Arsenic, Total | ug/L | MW-39A | 10/14/2025 | ND | 10.0000 | | 10.0000 |
| Barium, Total | ug/L | MW-39A | 10/14/2025 | | 267.0000 | | 451.0000 |
| Beryllium, Total | ug/L | MW-39A | 10/14/2025 | ND | 4.0000 | | 4.0000 |
| Cadmium, Total | ug/L | MW-39A | 10/14/2025 | ND | 5.0000 | | 5.0000 |
| Chromium, Total | ug/L | MW-39A | 10/14/2025 | ND | 10.0000 | | 13.0000 |
| Cobalt, Total | ug/L | MW-39A | 10/14/2025 | ND | 2.0000 | | 11.0000 |
| Copper, Total | ug/L | MW-39A | 10/14/2025 | ND | 10.0000 | | 15.0000 |
| Lead, Total | ug/L | MW-39A | 10/14/2025 | ND | 10.0000 | | 10.0000 |
| Nickel, Total | ug/L | MW-39A | 10/14/2025 | ND | 10.0000 | | 21.0000 |
| Selenium, Total | ug/L | MW-39A | 10/14/2025 | ND | 10.0000 | | 25.0000 |
| Silver, Total | ug/L | MW-39A | 10/14/2025 | ND | 10.0000 | | 10.0000 |
| Thallium, Total | ug/L | MW-39A | 10/14/2025 | ND | 2.0000 | | 2.0000 |
| Vanadium, Total | ug/L | MW-39A | 10/14/2025 | ND | 20.0000 | | 33.0000 |
| Zinc, Total | ug/L | MW-39A | 10/14/2025 | ND | 50.0000 | | 32.0000 |
| Antimony, Total | ug/L | MW-40A | 10/14/2025 | ND | 6.0000 | | 6.0000 |
| Arsenic, Total | ug/L | MW-40A | 10/14/2025 | ND | 10.0000 | | 10.0000 |
| Barium, Total | ug/L | MW-40A | 10/14/2025 | | 274.0000 | | 451.0000 |
| Beryllium, Total | ug/L | MW-40A | 10/14/2025 | ND | 4.0000 | | 4.0000 |
| Cadmium, Total | ug/L | MW-40A | 10/14/2025 | ND | 5.0000 | | 5.0000 |
| Chromium, Total | ug/L | MW-40A | 10/14/2025 | ND | 10.0000 | | 13.0000 |
| Cobalt, Total | ug/L | MW-40A | 10/14/2025 | ND | 2.0000 | | 11.0000 |
| Copper, Total | ug/L | MW-40A | 10/14/2025 | ND | 10.0000 | | 15.0000 |
| Lead, Total | ug/L | MW-40A | 10/14/2025 | ND | 10.0000 | | 10.0000 |
| Nickel, Total | ug/L | MW-40A | 10/14/2025 | ND | 10.0000 | | 21.0000 |
| Selenium, Total | ug/L | MW-40A | 10/14/2025 | ND | 10.0000 | | 25.0000 |
| Silver, Total | ug/L | MW-40A | 10/14/2025 | ND | 10.0000 | | 10.0000 |
| Thallium, Total | ug/L | MW-40A | 10/14/2025 | ND | 2.0000 | | 2.0000 |
| Vanadium, Total | ug/L | MW-40A | 10/14/2025 | ND | 20.0000 | | 33.0000 |
| Zinc, Total | ug/L | MW-40A | 10/14/2025 | ND | 50.0000 | | 32.0000 |
| Antimony, Total | ug/L | MW-41A | 11/24/2025 | ND | 6.0000 | | 6.0000 |
| Arsenic, Total | ug/L | MW-41A | 11/24/2025 | ND | 10.0000 | | 10.0000 |
| Barium, Total | ug/L | MW-41A | 11/24/2025 | | 101.0000 | | 451.0000 |
| Beryllium, Total | ug/L | MW-41A | 11/24/2025 | ND | 4.0000 | | 4.0000 |
| Cadmium, Total | ug/L | MW-41A | 11/24/2025 | ND | 5.0000 | | 5.0000 |
| Chromium, Total | ug/L | MW-41A | 11/24/2025 | ND | 10.0000 | | 13.0000 |
| Cobalt, Total | ug/L | MW-41A | 11/24/2025 | ND | 2.0000 | | 11.0000 |
| Copper, Total | ug/L | MW-41A | 11/24/2025 | ND | 10.0000 | | 15.0000 |
| Lead, Total | ug/L | MW-41A | 11/24/2025 | ND | 10.0000 | | 10.0000 |

* - 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 |
|---|---|---|---|---|---|---|---|
| Nickel, Total | ug/L | MW-41A | 11/24/2025 | ND | 10.0000 | | 21.0000 |
| Selenium, Total | ug/L | MW-41A | 11/24/2025 | ND | 10.0000 | | 25.0000 |
| Silver, Total | ug/L | MW-41A | 11/24/2025 | ND | 10.0000 | | 10.0000 |
| Thallium, Total | ug/L | MW-41A | 11/24/2025 | ND | 2.0000 | | 2.0000 |
| Vanadium, Total | ug/L | MW-41A | 11/24/2025 | ND | 20.0000 | | 33.0000 |
| Zinc, Total | ug/L | MW-41A | 11/24/2025 | ND | 50.0000 | | 32.0000 |

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

## Table 3

### Detection Frequencies in Upgradient and Downgradient Wells

| Constituent | Detect | Upgradient N | Proportion | Detect | Downgradient N | Proportion |
|---|---|---|---|---|---|---|
| Antimony, Total | 0 | 120 | 0.000 | 0 | 323 | 0.000 |
| Arsenic, Total | 0 | 120 | 0.000 | 31 | 369 | 0.084 |
| Barium, Total | 120 | 120 | 1.000 | 364 | 364 | 1.000 |
| Beryllium, Total | 0 | 120 | 0.000 | 0 | 322 | 0.000 |
| Cadmium, Total | 0 | 120 | 0.000 | 0 | 365 | 0.000 |
| Chromium, Total | 1 | 119 | 0.008 | 3 | 369 | 0.008 |
| Cobalt, Total | 8 | 120 | 0.067 | 51 | 324 | 0.157 |
| Copper, Total | 2 | 119 | 0.017 | 7 | 362 | 0.019 |
| Lead, Total | 0 | 120 | 0.000 | 3 | 363 | 0.008 |
| Nickel, Total | 3 | 118 | 0.025 | 155 | 323 | 0.480 |
| Selenium, Total | 5 | 116 | 0.043 | 1 | 323 | 0.003 |
| Silver, Total | 0 | 120 | 0.000 | 0 | 323 | 0.000 |
| Thallium, Total | 0 | 120 | 0.000 | 1 | 324 | 0.003 |
| Vanadium, Total | 1 | 119 | 0.008 | 2 | 320 | 0.006 |
| Zinc, Total | 2 | 119 | 0.017 | 6 | 363 | 0.017 |

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

## Table 4

### Shapiro-Wilk Multiple Group Test of Normality

| Constituent | Detect | N | Detect Freq | G raw | G log | G cbrt | G sqrt | G sqr | G cub | Crit Value | Dist Form | Model Type |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Antimony, Total | 0 | 120 | 0.000 | | | | | | | | | nonpar |
| Arsenic, Total | 0 | 120 | 0.000 | | | | | | | | | nonpar |
| Barium, Total | 120 | 120 | 1.000 | 7.001 | 5.291 | | | | | 2.326 | non-norm | nonpar |
| Beryllium, Total | 0 | 120 | 0.000 | | | | | | | | | nonpar |
| Cadmium, Total | 0 | 120 | 0.000 | | | | | | | | | nonpar |
| Chromium, Total | 1 | 119 | 0.008 | | | | | | | | | nonpar |
| Cobalt, Total | 8 | 120 | 0.067 | 1.896 | 1.390 | | | | | 2.326 | normal | nonpar |
| Copper, Total | 2 | 119 | 0.017 | | | | | | | | | nonpar |
| Lead, Total | 0 | 120 | 0.000 | | | | | | | | | nonpar |
| Nickel, Total | 3 | 118 | 0.025 | | | | | | | | | nonpar |
| Selenium, Total | 5 | 116 | 0.043 | 0.700 | 0.762 | | | | | 2.326 | normal | nonpar |
| Silver, Total | 0 | 120 | 0.000 | | | | | | | | | nonpar |
| Thallium, Total | 0 | 120 | 0.000 | | | | | | | | | nonpar |
| Vanadium, Total | 1 | 119 | 0.008 | | | | | | | | | nonpar |
| Zinc, Total | 2 | 119 | 0.017 | | | | | | | | | nonpar |

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

## Table 5

### Summary Statistics and Prediction Limits

| Constituent | Units | Detect | N | Mean | SD | alpha | Factor | Pred Limit | Type | | Conf |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Antimony, Total | ug/L | 0 | 120 | | | | | 6.0000 | nonpar | *** | 0.99 |
| Arsenic, Total | ug/L | 0 | 120 | | | | | 10.0000 | nonpar | *** | 0.99 |
| Barium, Total | ug/L | 120 | 120 | | | | | 451.0000 | nonpar | | 0.99 |
| Beryllium, Total | ug/L | 0 | 120 | | | | | 4.0000 | nonpar | *** | 0.99 |
| Cadmium, Total | ug/L | 0 | 120 | | | | | 5.0000 | nonpar | *** | 0.99 |
| Chromium, Total | ug/L | 1 | 119 | | | | | 13.0000 | nonpar | | 0.99 |
| Cobalt, Total | ug/L | 8 | 120 | | | | | 11.0000 | nonpar | | 0.99 |
| Copper, Total | ug/L | 2 | 119 | | | | | 15.0000 | nonpar | | 0.99 |
| Lead, Total | ug/L | 0 | 120 | | | | | 10.0000 | nonpar | *** | 0.99 |
| Nickel, Total | ug/L | 3 | 118 | | | | | 21.0000 | nonpar | | 0.99 |
| Selenium, Total | ug/L | 5 | 116 | | | | | 25.0000 | nonpar | | 0.99 |
| Silver, Total | ug/L | 0 | 120 | | | | | 10.0000 | nonpar | *** | 0.99 |
| Thallium, Total | ug/L | 0 | 120 | | | | | 2.0000 | nonpar | *** | 0.99 |
| Vanadium, Total | ug/L | 1 | 119 | | | | | 33.0000 | nonpar | | 0.99 |
| Zinc, Total | ug/L | 2 | 119 | | | | | 32.0000 | 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 |
|---|---|---|---|---|---|---|---|---|
| Selenium, Total | ug/L | MW-11A | 11/18/2015 | 44.0000 | | 04/13/2010-10/14/2025 | 28 | 0.4676 |
| Nickel, Total | ug/L | MW-36A | 05/12/2025 | 71.3000 | | 04/13/2010-05/12/2025 | 28 | 0.4676 |
| Selenium, Total | ug/L | MW-36A | 06/16/2016 | 46.0000 | | 04/13/2010-05/12/2025 | 28 | 0.4744 |
| Selenium, Total | ug/L | MW-36A | 05/30/2017 | 38.0000 | | 04/13/2010-05/12/2025 | 28 | 0.4744 |

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

## Table 8

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

| Constituent | Units | Well | Date | | Result | | Pred. Limit |
|---|---|---|---|---|---|---|---|
| Arsenic, Total | ug/L | Holding Pond | 10/13/2000 | ND | 10.0000 | | 10.0000 |
| Arsenic, Total | ug/L | Holding Pond | 10/18/2000 | ND | 10.0000 | | 10.0000 |
| Arsenic, Total | ug/L | Holding Pond | 10/25/2000 | ND | 10.0000 | | 10.0000 |
| Arsenic, Total | ug/L | Holding Pond | 11/01/2000 | ND | 10.0000 | | 10.0000 |
| Arsenic, Total | ug/L | Holding Pond | 11/09/2000 | ND | 10.0000 | | 10.0000 |
| Arsenic, Total | ug/L | Holding Pond | 12/20/2000 | ND | 10.0000 | | 10.0000 |
| Arsenic, Total | ug/L | Holding Pond | 01/04/2001 | ND | 10.0000 | | 10.0000 |
| Arsenic, Total | ug/L | Holding Pond | 02/07/2001 | ND | 10.0000 | | 10.0000 |
| Arsenic, Total | ug/L | Holding Pond | 03/07/2001 | ND | 10.0000 | | 10.0000 |
| Arsenic, Total | ug/L | Holding Pond | 05/22/2001 | ND | 10.0000 | | 10.0000 |
| Arsenic, Total | ug/L | Holding Pond | 06/06/2001 | ND | 10.0000 | | 10.0000 |
| Arsenic, Total | ug/L | Holding Pond | 07/09/2001 | ND | 10.0000 | | 10.0000 |
| Arsenic, Total | ug/L | Holding Pond | 08/08/2001 | ND | 10.0000 | | 10.0000 |
| Arsenic, Total | ug/L | Holding Pond | 10/02/2001 | ND | 10.0000 | | 10.0000 |
| Arsenic, Total | ug/L | Holding Pond | 10/15/2001 | ND | 10.0000 | | 10.0000 |
| Arsenic, Total | ug/L | Holding Pond | 01/09/2002 | ND | 10.0000 | | 10.0000 |
| Arsenic, Total | ug/L | Holding Pond | 01/31/2002 | ND | 10.0000 | | 10.0000 |
| Arsenic, Total | ug/L | Holding Pond | 02/25/2002 | ND | 10.0000 | | 10.0000 |
| Arsenic, Total | ug/L | Holding Pond | 03/25/2002 | ND | 10.0000 | | 10.0000 |
| Arsenic, Total | ug/L | Holding Pond | 04/22/2002 | ND | 10.0000 | | 10.0000 |
| Arsenic, Total | ug/L | Holding Pond | 05/24/2002 | ND | 10.0000 | | 10.0000 |
| Arsenic, Total | ug/L | Holding Pond | 06/11/2002 | ND | 10.0000 | | 10.0000 |
| Arsenic, Total | ug/L | Holding Pond | 07/09/2002 | ND | 10.0000 | | 10.0000 |
| Arsenic, Total | ug/L | Holding Pond | 08/12/2002 | ND | 10.0000 | | 10.0000 |
| Arsenic, Total | ug/L | Holding Pond | 09/18/2002 | ND | 10.0000 | | 10.0000 |
| Arsenic, Total | ug/L | Holding Pond | 10/10/2002 | ND | 10.0000 | | 10.0000 |
| Arsenic, Total | ug/L | Holding Pond | 01/07/2003 | ND | 10.0000 | | 10.0000 |
| Arsenic, Total | ug/L | Holding Pond | 02/27/2003 | ND | 10.0000 | | 10.0000 |
| Arsenic, Total | ug/L | Holding Pond | 03/18/2003 | ND | 10.0000 | | 10.0000 |
| Arsenic, Total | ug/L | Holding Pond | 04/24/2003 | ND | 10.0000 | | 10.0000 |
| Arsenic, Total | ug/L | Holding Pond | 05/27/2003 | ND | 10.0000 | | 10.0000 |
| Arsenic, Total | ug/L | Holding Pond | 06/18/2003 | ND | 10.0000 | | 10.0000 |
| Arsenic, Total | ug/L | Holding Pond | 07/15/2003 | ND | 10.0000 | | 10.0000 |
| Arsenic, Total | ug/L | Holding Pond | 08/13/2003 | ND | 10.0000 | | 10.0000 |
| Arsenic, Total | ug/L | Holding Pond | 09/02/2003 | ND | 10.0000 | | 10.0000 |
| Arsenic, Total | ug/L | Holding Pond | 10/15/2003 | ND | 10.0000 | | 10.0000 |
| Arsenic, Total | ug/L | Holding Pond | 04/20/2005 | ND | 10.0000 | | 10.0000 |
| Arsenic, Total | ug/L | Holding Pond | 10/05/2005 | ND | 10.0000 | | 10.0000 |
| Arsenic, Total | ug/L | Holding Pond | 04/11/2006 | ND | 10.0000 | | 10.0000 |
| Arsenic, Total | ug/L | Holding Pond | 10/16/2006 | ND | 10.0000 | | 10.0000 |
| Arsenic, Total | ug/L | Holding Pond | 04/18/2007 | ND | 10.0000 | | 10.0000 |
| Arsenic, Total | ug/L | Holding Pond | 10/03/2007 | ND | 10.0000 | | 10.0000 |
| Arsenic, Total | ug/L | Holding Pond | 05/07/2013 | ND | 10.0000 | | 10.0000 |
| Arsenic, Total | ug/L | Holding Pond | 11/11/2013 | ND | 10.0000 | | 10.0000 |
| Arsenic, Total | ug/L | Holding Pond | 05/13/2014 | ND | 10.0000 | | 10.0000 |
| Arsenic, Total | ug/L | Holding Pond | 11/12/2014 | ND | 10.0000 | | 10.0000 |
| Arsenic, Total | ug/L | Holding Pond | 05/27/2015 | ND | 10.0000 | | 10.0000 |
| Arsenic, Total | ug/L | Holding Pond | 11/18/2015 | ND | 10.0000 | | 10.0000 |
| Arsenic, Total | ug/L | Holding Pond | 06/16/2016 | ND | 10.0000 | | 10.0000 |
| Arsenic, Total | ug/L | Holding Pond | 11/16/2016 | ND | 10.0000 | | 10.0000 |
| Arsenic, Total | ug/L | Holding Pond | 05/30/2017 | ND | 10.0000 | | 10.0000 |
| Arsenic, Total | ug/L | Holding Pond | 11/21/2017 | ND | 10.0000 | | 10.0000 |
| Arsenic, Total | ug/L | Holding Pond | 05/31/2018 | ND | 10.0000 | | 10.0000 |
| Arsenic, Total | ug/L | Holding Pond | 10/31/2018 | ND | 10.0000 | | 10.0000 |
| Arsenic, Total | ug/L | Holding Pond | 05/28/2019 | ND | 10.0000 | | 10.0000 |
| Arsenic, Total | ug/L | Holding Pond | 10/15/2019 | ND | 10.0000 | | 10.0000 |
| Arsenic, Total | ug/L | Holding Pond | 06/03/2020 | ND | 10.0000 | | 10.0000 |
| Arsenic, Total | ug/L | Holding Pond | 10/07/2020 | ND | 10.0000 | | 10.0000 |
| Arsenic, Total | ug/L | Holding Pond | 05/03/2021 | ND | 10.0000 | | 10.0000 |
| Arsenic, Total | ug/L | Holding Pond | 11/09/2021 | ND | 10.0000 | | 10.0000 |
| Arsenic, Total | ug/L | Holding Pond | 05/17/2022 | | 10.4000 | * | 10.0000 |
| Arsenic, Total | ug/L | Holding Pond | 07/28/2022 | ND | 10.0000 | | 10.0000 |
| Arsenic, Total | ug/L | Holding Pond | 10/17/2022 | ND | 10.0000 | | 10.0000 |
| Arsenic, Total | ug/L | Holding Pond | 05/22/2023 | ND | 10.0000 | | 10.0000 |
| Arsenic, Total | ug/L | Holding Pond | 10/05/2023 | | 10.4000 | * | 10.0000 |
| Arsenic, Total | ug/L | Holding Pond | 11/27/2023 | ND | 10.0000 | | 10.0000 |
| Arsenic, Total | ug/L | Holding Pond | 05/20/2024 | | 21.3000 | * | 10.0000 |
| Arsenic, Total | ug/L | Holding Pond | 07/18/2024 | | 35.6000 | * | 10.0000 |
| Arsenic, Total | ug/L | Holding Pond | 10/02/2024 | | 14.0000 | * | 10.0000 |
| Arsenic, Total | ug/L | Holding Pond | 11/12/2024 | ND | 10.0000 | | 10.0000 |
| Arsenic, Total | ug/L | Holding Pond | 05/12/2025 | ND | 10.0000 | | 10.0000 |

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

## Table 8

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

| Constituent | Units | Well | Date | | Result | | Pred. Limit |
|---|---|---|---|---|---|---|---|
| Arsenic, Total | ug/L | Holding Pond | 10/14/2025 | | 10.9000 | * | 10.0000 |
| Nickel, Total | ug/L | Holding Pond | 05/07/2013 | ND | 10.0000 | | 21.0000 |
| Nickel, Total | ug/L | Holding Pond | 11/11/2013 | ND | 10.0000 | | 21.0000 |
| Nickel, Total | ug/L | Holding Pond | 05/13/2014 | ND | 10.0000 | | 21.0000 |
| Nickel, Total | ug/L | Holding Pond | 11/12/2014 | ND | 10.0000 | | 21.0000 |
| Nickel, Total | ug/L | Holding Pond | 05/27/2015 | ND | 10.0000 | | 21.0000 |
| Nickel, Total | ug/L | Holding Pond | 11/18/2015 | ND | 10.0000 | | 21.0000 |
| Nickel, Total | ug/L | Holding Pond | 06/16/2016 | ND | 10.0000 | | 21.0000 |
| Nickel, Total | ug/L | Holding Pond | 11/16/2016 | ND | 10.0000 | | 21.0000 |
| Nickel, Total | ug/L | Holding Pond | 05/30/2017 | ND | 10.0000 | | 21.0000 |
| Nickel, Total | ug/L | Holding Pond | 11/21/2017 | ND | 10.0000 | | 21.0000 |
| Nickel, Total | ug/L | Holding Pond | 05/31/2018 | ND | 10.0000 | | 21.0000 |
| Nickel, Total | ug/L | Holding Pond | 10/31/2018 | ND | 10.0000 | | 21.0000 |
| Nickel, Total | ug/L | Holding Pond | 05/28/2019 | | 11.0000 | | 21.0000 |
| Nickel, Total | ug/L | Holding Pond | 10/15/2019 | | 10.0000 | | 21.0000 |
| Nickel, Total | ug/L | Holding Pond | 06/03/2020 | | 13.7000 | | 21.0000 |
| Nickel, Total | ug/L | Holding Pond | 10/07/2020 | ND | 10.0000 | | 21.0000 |
| Nickel, Total | ug/L | Holding Pond | 05/03/2021 | ND | 10.0000 | | 21.0000 |
| Nickel, Total | ug/L | Holding Pond | 11/09/2021 | | 16.8000 | | 21.0000 |
| Nickel, Total | ug/L | Holding Pond | 05/17/2022 | | 22.3000 | * | 21.0000 |
| Nickel, Total | ug/L | Holding Pond | 07/28/2022 | | 14.5000 | | 21.0000 |
| Nickel, Total | ug/L | Holding Pond | 10/17/2022 | ND | 10.0000 | | 21.0000 |
| Nickel, Total | ug/L | Holding Pond | 05/22/2023 | | 28.7000 | * | 21.0000 |
| Nickel, Total | ug/L | Holding Pond | 10/05/2023 | | 25.9000 | * | 21.0000 |
| Nickel, Total | ug/L | Holding Pond | 05/20/2024 | | 38.0000 | * | 21.0000 |
| Nickel, Total | ug/L | Holding Pond | 07/18/2024 | | 21.6000 | * | 21.0000 |
| Nickel, Total | ug/L | Holding Pond | 10/02/2024 | | 36.4000 | * | 21.0000 |
| Nickel, Total | ug/L | Holding Pond | 11/12/2024 | | 32.8000 | * | 21.0000 |
| Nickel, Total | ug/L | Holding Pond | 05/12/2025 | | 22.1000 | * | 21.0000 |
| Nickel, Total | ug/L | Holding Pond | 10/14/2025 | | 14.2000 | | 21.0000 |
| Nickel, Total | ug/L | MW-19A | 04/24/2008 | | 18.0000 | | 21.0000 |
| Nickel, Total | ug/L | MW-19A | 05/21/2008 | | 15.0000 | | 21.0000 |
| Nickel, Total | ug/L | MW-19A | 06/18/2008 | | 14.0000 | | 21.0000 |
| Nickel, Total | ug/L | MW-19A | 08/13/2008 | | 12.0000 | | 21.0000 |
| Nickel, Total | ug/L | MW-19A | 09/24/2008 | | 12.0000 | | 21.0000 |
| Nickel, Total | ug/L | MW-19A | 04/27/2009 | | 12.1000 | | 21.0000 |
| Nickel, Total | ug/L | MW-19A | 10/26/2009 | | 21.5000 | * | 21.0000 |
| Nickel, Total | ug/L | MW-19A | 12/17/2009 | | 12.1000 | | 21.0000 |
| Nickel, Total | ug/L | MW-19A | 04/13/2010 | | 12.5000 | | 21.0000 |
| Nickel, Total | ug/L | MW-19A | 07/09/2010 | | 14.1000 | | 21.0000 |
| Nickel, Total | ug/L | MW-19A | 10/18/2010 | | 12.4000 | | 21.0000 |
| Nickel, Total | ug/L | MW-19A | 05/09/2011 | | 14.0000 | | 21.0000 |
| Nickel, Total | ug/L | MW-19A | 10/19/2011 | | 14.0000 | | 21.0000 |
| Nickel, Total | ug/L | MW-19A | 04/24/2012 | | 13.0000 | | 21.0000 |
| Nickel, Total | ug/L | MW-19A | 10/25/2012 | | 12.0000 | | 21.0000 |
| Nickel, Total | ug/L | MW-19A | 05/07/2013 | | 11.0000 | | 21.0000 |
| Nickel, Total | ug/L | MW-19A | 11/11/2013 | | 11.0000 | | 21.0000 |
| Nickel, Total | ug/L | MW-19A | 05/13/2014 | | 13.0000 | | 21.0000 |
| Nickel, Total | ug/L | MW-19A | 11/12/2014 | | 13.0000 | | 21.0000 |
| Nickel, Total | ug/L | MW-19A | 05/27/2015 | | 11.0000 | | 21.0000 |
| Nickel, Total | ug/L | MW-19A | 11/18/2015 | ND | 10.0000 | | 21.0000 |
| Nickel, Total | ug/L | MW-19A | 06/16/2016 | | 14.0000 | | 21.0000 |
| Nickel, Total | ug/L | MW-19A | 11/16/2016 | | 15.0000 | | 21.0000 |
| Nickel, Total | ug/L | MW-19A | 05/30/2017 | | 16.0000 | | 21.0000 |
| Nickel, Total | ug/L | MW-19A | 11/21/2017 | | 13.0000 | | 21.0000 |
| Nickel, Total | ug/L | MW-19A | 05/31/2018 | | 15.0000 | | 21.0000 |
| Nickel, Total | ug/L | MW-19A | 10/31/2018 | | 19.0000 | | 21.0000 |
| Nickel, Total | ug/L | MW-19A | 05/28/2019 | | 16.0000 | | 21.0000 |
| Nickel, Total | ug/L | MW-19A | 10/15/2019 | | 21.0000 | | 21.0000 |
| Nickel, Total | ug/L | MW-19A | 06/03/2020 | | 22.1000 | * | 21.0000 |
| Nickel, Total | ug/L | MW-19A | 10/07/2020 | | 23.3000 | * | 21.0000 |
| Nickel, Total | ug/L | MW-19A | 05/03/2021 | | 18.1000 | | 21.0000 |
| Nickel, Total | ug/L | MW-19A | 11/09/2021 | | 17.7000 | | 21.0000 |
| Nickel, Total | ug/L | MW-19A | 05/17/2022 | | 20.4000 | | 21.0000 |
| Nickel, Total | ug/L | MW-19A | 10/17/2022 | | 26.1000 | * | 21.0000 |
| Nickel, Total | ug/L | MW-19A | 05/22/2023 | | 18.3000 | | 21.0000 |
| Nickel, Total | ug/L | MW-19A | 10/05/2023 | | 30.2000 | * | 21.0000 |
| Nickel, Total | ug/L | MW-19A | 05/20/2024 | | 26.1000 | * | 21.0000 |
| Nickel, Total | ug/L | MW-19A | 10/02/2024 | | 25.1000 | * | 21.0000 |
| Nickel, Total | ug/L | MW-19A | 05/12/2025 | | 38.6000 | * | 21.0000 |
| Nickel, Total | ug/L | MW-19A | 10/14/2025 | | 33.5000 | * | 21.0000 |

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

## Table 8

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

| Constituent | Units | Well | Date | | Result | | Pred. Limit |
|---|---|---|---|---|---|---|---|
| Arsenic, Total | ug/L | MW-23A | 04/27/2009 | ND | 10.0000 | | 10.0000 |
| Arsenic, Total | ug/L | MW-23A | 10/26/2009 | ND | 10.0000 | | 10.0000 |
| Arsenic, Total | ug/L | MW-23A | 12/17/2009 | ND | 10.0000 | | 10.0000 |
| Arsenic, Total | ug/L | MW-23A | 04/13/2010 | ND | 10.0000 | | 10.0000 |
| Arsenic, Total | ug/L | MW-23A | 05/18/2010 | ND | 10.0000 | | 10.0000 |
| Arsenic, Total | ug/L | MW-23A | 06/21/2010 | ND | 10.0000 | | 10.0000 |
| Arsenic, Total | ug/L | MW-23A | 07/09/2010 | ND | 10.0000 | | 10.0000 |
| Arsenic, Total | ug/L | MW-23A | 08/18/2010 | ND | 10.0000 | | 10.0000 |
| Arsenic, Total | ug/L | MW-23A | 10/18/2010 | ND | 10.0000 | | 10.0000 |
| Arsenic, Total | ug/L | MW-23A | 05/09/2011 | ND | 10.0000 | | 10.0000 |
| Arsenic, Total | ug/L | MW-23A | 10/19/2011 | ND | 10.0000 | | 10.0000 |
| Arsenic, Total | ug/L | MW-23A | 04/24/2012 | ND | 10.0000 | | 10.0000 |
| Arsenic, Total | ug/L | MW-23A | 10/25/2012 | | 110.0000 | *** | 10.0000 |
| Arsenic, Total | ug/L | MW-23A | 05/07/2013 | ND | 10.0000 | | 10.0000 |
| Arsenic, Total | ug/L | MW-23A | 11/11/2013 | | 37.0000 | *** | 10.0000 |
| Arsenic, Total | ug/L | MW-23A | 05/13/2014 | ND | 10.0000 | | 10.0000 |
| Arsenic, Total | ug/L | MW-23A | 11/12/2014 | ND | 10.0000 | | 10.0000 |
| Arsenic, Total | ug/L | MW-23A | 05/27/2015 | ND | 10.0000 | | 10.0000 |
| Arsenic, Total | ug/L | MW-23A | 11/18/2015 | ND | 10.0000 | | 10.0000 |
| Arsenic, Total | ug/L | MW-23A | 06/16/2016 | ND | 10.0000 | | 10.0000 |
| Arsenic, Total | ug/L | MW-23A | 11/16/2016 | ND | 10.0000 | | 10.0000 |
| Arsenic, Total | ug/L | MW-23A | 05/30/2017 | ND | 10.0000 | | 10.0000 |
| Arsenic, Total | ug/L | MW-23A | 11/21/2017 | ND | 10.0000 | | 10.0000 |
| Arsenic, Total | ug/L | MW-23A | 05/31/2018 | ND | 10.0000 | | 10.0000 |
| Arsenic, Total | ug/L | MW-23A | 10/31/2018 | ND | 10.0000 | | 10.0000 |
| Arsenic, Total | ug/L | MW-23A | 05/28/2019 | ND | 10.0000 | | 10.0000 |
| Arsenic, Total | ug/L | MW-23A | 10/15/2019 | ND | 10.0000 | | 10.0000 |
| Arsenic, Total | ug/L | MW-23A | 06/03/2020 | ND | 10.0000 | | 10.0000 |
| Arsenic, Total | ug/L | MW-23A | 10/07/2020 | ND | 10.0000 | | 10.0000 |
| Arsenic, Total | ug/L | MW-23A | 05/03/2021 | ND | 10.0000 | | 10.0000 |
| Arsenic, Total | ug/L | MW-23A | 11/09/2021 | ND | 10.0000 | | 10.0000 |
| Arsenic, Total | ug/L | MW-23A | 05/17/2022 | ND | 10.0000 | | 10.0000 |
| Arsenic, Total | ug/L | MW-23A | 10/17/2022 | ND | 10.0000 | | 10.0000 |
| Arsenic, Total | ug/L | MW-23A | 06/08/2023 | ND | 10.0000 | | 10.0000 |
| Arsenic, Total | ug/L | MW-23A | 10/05/2023 | ND | 10.0000 | | 10.0000 |
| Arsenic, Total | ug/L | MW-23A | 05/20/2024 | ND | 10.0000 | | 10.0000 |
| Arsenic, Total | ug/L | MW-23A | 10/02/2024 | ND | 10.0000 | | 10.0000 |
| Arsenic, Total | ug/L | MW-23A | 05/12/2025 | | 10.8000 | * | 10.0000 |
| Arsenic, Total | ug/L | MW-23A | 07/09/2025 | | 14.8000 | * | 10.0000 |
| Arsenic, Total | ug/L | MW-23A | 10/14/2025 | | 12.2000 | * | 10.0000 |
| Barium, Total | ug/L | MW-23A | 04/27/2009 | | 125.0000 | | 451.0000 |
| Barium, Total | ug/L | MW-23A | 10/26/2009 | | 147.0000 | | 451.0000 |
| Barium, Total | ug/L | MW-23A | 12/17/2009 | | 143.0000 | | 451.0000 |
| Barium, Total | ug/L | MW-23A | 04/13/2010 | | 123.0000 | | 451.0000 |
| Barium, Total | ug/L | MW-23A | 05/18/2010 | | 128.0000 | | 451.0000 |
| Barium, Total | ug/L | MW-23A | 06/21/2010 | | 146.0000 | | 451.0000 |
| Barium, Total | ug/L | MW-23A | 07/09/2010 | | 150.0000 | | 451.0000 |
| Barium, Total | ug/L | MW-23A | 08/18/2010 | | 160.0000 | | 451.0000 |
| Barium, Total | ug/L | MW-23A | 10/18/2010 | | 166.0000 | | 451.0000 |
| Barium, Total | ug/L | MW-23A | 05/09/2011 | | 120.0000 | | 451.0000 |
| Barium, Total | ug/L | MW-23A | 10/19/2011 | | 190.0000 | | 451.0000 |
| Barium, Total | ug/L | MW-23A | 04/24/2012 | | 170.0000 | | 451.0000 |
| Barium, Total | ug/L | MW-23A | 10/25/2012 | | 1300.0000 | *** | 451.0000 |
| Barium, Total | ug/L | MW-23A | 05/07/2013 | | 170.0000 | | 451.0000 |
| Barium, Total | ug/L | MW-23A | 11/11/2013 | | 980.0000 | *** | 451.0000 |
| Barium, Total | ug/L | MW-23A | 05/13/2014 | | 150.0000 | | 451.0000 |
| Barium, Total | ug/L | MW-23A | 11/12/2014 | | 180.0000 | | 451.0000 |
| Barium, Total | ug/L | MW-23A | 05/27/2015 | | 230.0000 | | 451.0000 |
| Barium, Total | ug/L | MW-23A | 11/18/2015 | | 270.0000 | | 451.0000 |
| Barium, Total | ug/L | MW-23A | 06/16/2016 | | 290.0000 | | 451.0000 |
| Barium, Total | ug/L | MW-23A | 11/16/2016 | | 290.0000 | | 451.0000 |
| Barium, Total | ug/L | MW-23A | 05/30/2017 | | 320.0000 | | 451.0000 |
| Barium, Total | ug/L | MW-23A | 11/21/2017 | | 350.0000 | | 451.0000 |
| Barium, Total | ug/L | MW-23A | 05/31/2018 | | 660.0000 | * | 451.0000 |
| Barium, Total | ug/L | MW-23A | 10/31/2018 | | 460.0000 | * | 451.0000 |
| Barium, Total | ug/L | MW-23A | 05/28/2019 | | 1300.0000 | * | 451.0000 |
| Barium, Total | ug/L | MW-23A | 10/15/2019 | | 620.0000 | * | 451.0000 |
| Barium, Total | ug/L | MW-23A | 06/03/2020 | | 1020.0000 | * | 451.0000 |
| Barium, Total | ug/L | MW-23A | 10/07/2020 | | 478.0000 | * | 451.0000 |
| Barium, Total | ug/L | MW-23A | 05/03/2021 | | 1170.0000 | * | 451.0000 |
| Barium, Total | ug/L | MW-23A | 11/09/2021 | | 1300.0000 | * | 451.0000 |

* - 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 |
|---|---|---|---|---|---|---|---|
| Barium, Total | ug/L | MW-23A | 05/17/2022 | | 1490.0000 | * | 451.0000 |
| Barium, Total | ug/L | MW-23A | 10/17/2022 | | 1080.0000 | * | 451.0000 |
| Barium, Total | ug/L | MW-23A | 06/08/2023 | | 2540.0000 | * | 451.0000 |
| Barium, Total | ug/L | MW-23A | 10/05/2023 | | 1230.0000 | * | 451.0000 |
| Barium, Total | ug/L | MW-23A | 05/20/2024 | | 2450.0000 | * | 451.0000 |
| Barium, Total | ug/L | MW-23A | 07/18/2024 | | 1950.0000 | * | 451.0000 |
| Barium, Total | ug/L | MW-23A | 10/02/2024 | | 1640.0000 | * | 451.0000 |
| Barium, Total | ug/L | MW-23A | 05/12/2025 | | 1600.0000 | * | 451.0000 |
| Barium, Total | ug/L | MW-23A | 10/14/2025 | | 1070.0000 | * | 451.0000 |
| Cobalt, Total | ug/L | MW-23A | 04/27/2009 | ND | 10.0000 | | 11.0000 |
| Cobalt, Total | ug/L | MW-23A | 10/26/2009 | ND | 10.0000 | | 11.0000 |
| Cobalt, Total | ug/L | MW-23A | 12/17/2009 | ND | 10.0000 | | 11.0000 |
| Cobalt, Total | ug/L | MW-23A | 04/13/2010 | ND | 10.0000 | | 11.0000 |
| Cobalt, Total | ug/L | MW-23A | 05/18/2010 | ND | 10.0000 | | 11.0000 |
| Cobalt, Total | ug/L | MW-23A | 06/21/2010 | ND | 10.0000 | | 11.0000 |
| Cobalt, Total | ug/L | MW-23A | 07/09/2010 | ND | 10.0000 | | 11.0000 |
| Cobalt, Total | ug/L | MW-23A | 08/18/2010 | ND | 10.0000 | | 11.0000 |
| Cobalt, Total | ug/L | MW-23A | 10/18/2010 | ND | 10.0000 | | 11.0000 |
| Cobalt, Total | ug/L | MW-23A | 05/09/2011 | ND | 10.0000 | | 11.0000 |
| Cobalt, Total | ug/L | MW-23A | 10/19/2011 | ND | 10.0000 | | 11.0000 |
| Cobalt, Total | ug/L | MW-23A | 04/24/2012 | ND | 10.0000 | | 11.0000 |
| Cobalt, Total | ug/L | MW-23A | 10/25/2012 | | 71.0000 | *** | 11.0000 |
| Cobalt, Total | ug/L | MW-23A | 05/07/2013 | ND | 10.0000 | | 11.0000 |
| Cobalt, Total | ug/L | MW-23A | 11/11/2013 | | 34.0000 | *** | 11.0000 |
| Cobalt, Total | ug/L | MW-23A | 05/13/2014 | ND | 10.0000 | | 11.0000 |
| Cobalt, Total | ug/L | MW-23A | 11/12/2014 | ND | 10.0000 | | 11.0000 |
| Cobalt, Total | ug/L | MW-23A | 05/27/2015 | ND | 2.8000 | | 11.0000 |
| Cobalt, Total | ug/L | MW-23A | 11/18/2015 | ND | 2.8000 | | 11.0000 |
| Cobalt, Total | ug/L | MW-23A | 06/16/2016 | ND | 2.8000 | | 11.0000 |
| Cobalt, Total | ug/L | MW-23A | 11/16/2016 | ND | 2.8000 | | 11.0000 |
| Cobalt, Total | ug/L | MW-23A | 05/30/2017 | ND | 2.8000 | | 11.0000 |
| Cobalt, Total | ug/L | MW-23A | 11/21/2017 | ND | 2.8000 | | 11.0000 |
| Cobalt, Total | ug/L | MW-23A | 05/31/2018 | | 13.0000 | * | 11.0000 |
| Cobalt, Total | ug/L | MW-23A | 10/31/2018 | | 3.3000 | | 11.0000 |
| Cobalt, Total | ug/L | MW-23A | 05/28/2019 | | 14.0000 | * | 11.0000 |
| Cobalt, Total | ug/L | MW-23A | 10/15/2019 | | 6.2000 | | 11.0000 |
| Cobalt, Total | ug/L | MW-23A | 06/03/2020 | | 9.7400 | | 11.0000 |
| Cobalt, Total | ug/L | MW-23A | 10/07/2020 | | 3.1200 | | 11.0000 |
| Cobalt, Total | ug/L | MW-23A | 05/03/2021 | | 14.7000 | * | 11.0000 |
| Cobalt, Total | ug/L | MW-23A | 11/09/2021 | | 10.2000 | | 11.0000 |
| Cobalt, Total | ug/L | MW-23A | 05/17/2022 | | 14.4000 | * | 11.0000 |
| Cobalt, Total | ug/L | MW-23A | 10/17/2022 | | 3.8000 | | 11.0000 |
| Cobalt, Total | ug/L | MW-23A | 06/08/2023 | | 14.9000 | * | 11.0000 |
| Cobalt, Total | ug/L | MW-23A | 10/05/2023 | | 5.1900 | | 11.0000 |
| Cobalt, Total | ug/L | MW-23A | 05/20/2024 | | 13.5000 | * | 11.0000 |
| Cobalt, Total | ug/L | MW-23A | 10/02/2024 | ND | 2.0000 | | 11.0000 |
| Cobalt, Total | ug/L | MW-23A | 05/12/2025 | | 11.3000 | * | 11.0000 |
| Cobalt, Total | ug/L | MW-23A | 10/14/2025 | | 3.1800 | | 11.0000 |
| Arsenic, Total | ug/L | MW-37A | 10/26/2009 | ND | 10.0000 | | 10.0000 |
| Arsenic, Total | ug/L | MW-37A | 11/23/2009 | ND | 10.0000 | | 10.0000 |
| Arsenic, Total | ug/L | MW-37A | 12/17/2009 | ND | 10.0000 | | 10.0000 |
| Arsenic, Total | ug/L | MW-37A | 04/13/2010 | ND | 10.0000 | | 10.0000 |
| Arsenic, Total | ug/L | MW-37A | 05/18/2010 | ND | 10.0000 | | 10.0000 |
| Arsenic, Total | ug/L | MW-37A | 06/21/2010 | ND | 10.0000 | | 10.0000 |
| Arsenic, Total | ug/L | MW-37A | 07/09/2010 | ND | 10.0000 | | 10.0000 |
| Arsenic, Total | ug/L | MW-37A | 08/18/2010 | ND | 10.0000 | | 10.0000 |
| Arsenic, Total | ug/L | MW-37A | 10/18/2010 | ND | 10.0000 | | 10.0000 |
| Arsenic, Total | ug/L | MW-37A | 05/09/2011 | ND | 10.0000 | | 10.0000 |
| Arsenic, Total | ug/L | MW-37A | 10/19/2011 | ND | 10.0000 | | 10.0000 |
| Arsenic, Total | ug/L | MW-37A | 04/24/2012 | ND | 10.0000 | | 10.0000 |
| Arsenic, Total | ug/L | MW-37A | 10/25/2012 | ND | 10.0000 | | 10.0000 |
| Arsenic, Total | ug/L | MW-37A | 05/07/2013 | ND | 10.0000 | | 10.0000 |
| Arsenic, Total | ug/L | MW-37A | 11/11/2013 | ND | 10.0000 | | 10.0000 |
| Arsenic, Total | ug/L | MW-37A | 05/13/2014 | ND | 10.0000 | | 10.0000 |
| Arsenic, Total | ug/L | MW-37A | 05/27/2015 | | 12.0000 | * | 10.0000 |
| Arsenic, Total | ug/L | MW-37A | 11/18/2015 | ND | 10.0000 | | 10.0000 |
| Arsenic, Total | ug/L | MW-37A | 06/16/2016 | | 16.0000 | * | 10.0000 |
| Arsenic, Total | ug/L | MW-37A | 11/16/2016 | | 19.0000 | * | 10.0000 |
| Arsenic, Total | ug/L | MW-37A | 05/30/2017 | | 17.0000 | * | 10.0000 |
| Arsenic, Total | ug/L | MW-37A | 11/21/2017 | | 34.0000 | * | 10.0000 |
| Arsenic, Total | ug/L | MW-37A | 05/31/2018 | | 29.0000 | * | 10.0000 |

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

## Table 8

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

| Constituent | Units | Well | Date | | Result | | Pred. Limit |
|---|---|---|---|---|---|---|---|
| Arsenic, Total | ug/L | MW-37A | 10/31/2018 | | 40.0000 | * | 10.0000 |
| Arsenic, Total | ug/L | MW-37A | 05/28/2019 | | 35.0000 | * | 10.0000 |
| Arsenic, Total | ug/L | MW-37A | 10/15/2019 | | 33.0000 | * | 10.0000 |
| Arsenic, Total | ug/L | MW-37A | 06/03/2020 | | 44.6000 | * | 10.0000 |
| Arsenic, Total | ug/L | MW-37A | 10/07/2020 | | 36.4000 | * | 10.0000 |
| Arsenic, Total | ug/L | MW-37A | 05/03/2021 | | 56.2000 | * | 10.0000 |
| Arsenic, Total | ug/L | MW-37A | 11/09/2021 | | 53.7000 | * | 10.0000 |
| Arsenic, Total | ug/L | MW-37A | 05/17/2022 | | 46.1000 | * | 10.0000 |
| Arsenic, Total | ug/L | MW-37A | 10/17/2022 | | 37.7000 | * | 10.0000 |
| Arsenic, Total | ug/L | MW-37A | 06/08/2023 | | 35.8000 | * | 10.0000 |
| Arsenic, Total | ug/L | MW-37A | 10/05/2023 | | 46.7000 | * | 10.0000 |
| Arsenic, Total | ug/L | MW-37A | 05/20/2024 | | 44.7000 | * | 10.0000 |
| Arsenic, Total | ug/L | MW-37A | 10/02/2024 | | 62.3000 | * | 10.0000 |
| Arsenic, Total | ug/L | MW-37A | 05/12/2025 | | 53.4000 | * | 10.0000 |
| Arsenic, Total | ug/L | MW-37A | 10/14/2025 | | 55.6000 | * | 10.0000 |
| Barium, Total | ug/L | MW-37A | 10/26/2009 | | 146.0000 | | 451.0000 |
| Barium, Total | ug/L | MW-37A | 11/23/2009 | | 146.0000 | | 451.0000 |
| Barium, Total | ug/L | MW-37A | 12/17/2009 | | 148.0000 | | 451.0000 |
| Barium, Total | ug/L | MW-37A | 04/13/2010 | | 108.0000 | | 451.0000 |
| Barium, Total | ug/L | MW-37A | 05/18/2010 | | 115.0000 | | 451.0000 |
| Barium, Total | ug/L | MW-37A | 06/21/2010 | | 128.0000 | | 451.0000 |
| Barium, Total | ug/L | MW-37A | 07/09/2010 | | 126.0000 | | 451.0000 |
| Barium, Total | ug/L | MW-37A | 08/18/2010 | | 134.0000 | | 451.0000 |
| Barium, Total | ug/L | MW-37A | 10/18/2010 | | 165.0000 | | 451.0000 |
| Barium, Total | ug/L | MW-37A | 05/09/2011 | | 190.0000 | | 451.0000 |
| Barium, Total | ug/L | MW-37A | 10/19/2011 | | 240.0000 | | 451.0000 |
| Barium, Total | ug/L | MW-37A | 04/24/2012 | | 240.0000 | | 451.0000 |
| Barium, Total | ug/L | MW-37A | 10/25/2012 | | 290.0000 | | 451.0000 |
| Barium, Total | ug/L | MW-37A | 05/07/2013 | | 290.0000 | | 451.0000 |
| Barium, Total | ug/L | MW-37A | 11/11/2013 | | 370.0000 | | 451.0000 |
| Barium, Total | ug/L | MW-37A | 05/13/2014 | | 320.0000 | | 451.0000 |
| Barium, Total | ug/L | MW-37A | 05/27/2015 | | 350.0000 | | 451.0000 |
| Barium, Total | ug/L | MW-37A | 11/18/2015 | | 400.0000 | | 451.0000 |
| Barium, Total | ug/L | MW-37A | 06/16/2016 | | 320.0000 | | 451.0000 |
| Barium, Total | ug/L | MW-37A | 11/16/2016 | | 370.0000 | | 451.0000 |
| Barium, Total | ug/L | MW-37A | 05/30/2017 | | 450.0000 | | 451.0000 |
| Barium, Total | ug/L | MW-37A | 11/21/2017 | | 540.0000 | * | 451.0000 |
| Barium, Total | ug/L | MW-37A | 05/31/2018 | | 540.0000 | * | 451.0000 |
| Barium, Total | ug/L | MW-37A | 10/31/2018 | | 640.0000 | * | 451.0000 |
| Barium, Total | ug/L | MW-37A | 05/28/2019 | | 650.0000 | * | 451.0000 |
| Barium, Total | ug/L | MW-37A | 10/15/2019 | | 680.0000 | * | 451.0000 |
| Barium, Total | ug/L | MW-37A | 06/03/2020 | | 718.0000 | * | 451.0000 |
| Barium, Total | ug/L | MW-37A | 10/07/2020 | | 756.0000 | * | 451.0000 |
| Barium, Total | ug/L | MW-37A | 05/03/2021 | | 805.0000 | * | 451.0000 |
| Barium, Total | ug/L | MW-37A | 11/09/2021 | | 914.0000 | * | 451.0000 |
| Barium, Total | ug/L | MW-37A | 05/17/2022 | | 802.0000 | * | 451.0000 |
| Barium, Total | ug/L | MW-37A | 10/17/2022 | | 871.0000 | * | 451.0000 |
| Barium, Total | ug/L | MW-37A | 06/08/2023 | | 982.0000 | * | 451.0000 |
| Barium, Total | ug/L | MW-37A | 10/05/2023 | | 1140.0000 | * | 451.0000 |
| Barium, Total | ug/L | MW-37A | 05/20/2024 | | 1160.0000 | * | 451.0000 |
| Barium, Total | ug/L | MW-37A | 10/02/2024 | | 1420.0000 | * | 451.0000 |
| Barium, Total | ug/L | MW-37A | 05/12/2025 | | 1320.0000 | * | 451.0000 |
| Barium, Total | ug/L | MW-37A | 10/14/2025 | | 1230.0000 | * | 451.0000 |
| Cobalt, Total | ug/L | MW-37A | 10/26/2009 | ND | 10.0000 | | 11.0000 |
| Cobalt, Total | ug/L | MW-37A | 11/23/2009 | ND | 10.0000 | | 11.0000 |
| Cobalt, Total | ug/L | MW-37A | 12/17/2009 | ND | 10.0000 | | 11.0000 |
| Cobalt, Total | ug/L | MW-37A | 04/13/2010 | ND | 10.0000 | | 11.0000 |
| Cobalt, Total | ug/L | MW-37A | 05/18/2010 | ND | 10.0000 | | 11.0000 |
| Cobalt, Total | ug/L | MW-37A | 06/21/2010 | ND | 10.0000 | | 11.0000 |
| Cobalt, Total | ug/L | MW-37A | 07/09/2010 | ND | 10.0000 | | 11.0000 |
| Cobalt, Total | ug/L | MW-37A | 08/18/2010 | ND | 10.0000 | | 11.0000 |
| Cobalt, Total | ug/L | MW-37A | 10/18/2010 | ND | 10.0000 | | 11.0000 |
| Cobalt, Total | ug/L | MW-37A | 05/09/2011 | ND | 10.0000 | | 11.0000 |
| Cobalt, Total | ug/L | MW-37A | 10/19/2011 | ND | 10.0000 | | 11.0000 |
| Cobalt, Total | ug/L | MW-37A | 04/24/2012 | ND | 10.0000 | | 11.0000 |
| Cobalt, Total | ug/L | MW-37A | 10/25/2012 | | 11.0000 | | 11.0000 |
| Cobalt, Total | ug/L | MW-37A | 05/07/2013 | ND | 10.0000 | | 11.0000 |
| Cobalt, Total | ug/L | MW-37A | 11/11/2013 | | 16.0000 | * | 11.0000 |
| Cobalt, Total | ug/L | MW-37A | 05/13/2014 | | 10.0000 | | 11.0000 |
| Cobalt, Total | ug/L | MW-37A | 05/27/2015 | | 11.0000 | | 11.0000 |
| Cobalt, Total | ug/L | MW-37A | 11/18/2015 | | 8.3000 | | 11.0000 |

* - 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 | MW-37A | 06/16/2016 | | 7.8000 | | 11.0000 |
| Cobalt, Total | ug/L | MW-37A | 11/16/2016 | | 7.7000 | | 11.0000 |
| Cobalt, Total | ug/L | MW-37A | 05/30/2017 | | 6.8000 | | 11.0000 |
| Cobalt, Total | ug/L | MW-37A | 11/21/2017 | | 6.9000 | | 11.0000 |
| Cobalt, Total | ug/L | MW-37A | 05/31/2018 | | 7.3000 | | 11.0000 |
| Cobalt, Total | ug/L | MW-37A | 10/31/2018 | | 8.0000 | | 11.0000 |
| Cobalt, Total | ug/L | MW-37A | 05/28/2019 | | 7.0000 | | 11.0000 |
| Cobalt, Total | ug/L | MW-37A | 10/15/2019 | | 7.9000 | | 11.0000 |
| Cobalt, Total | ug/L | MW-37A | 06/03/2020 | | 9.1000 | | 11.0000 |
| Cobalt, Total | ug/L | MW-37A | 10/07/2020 | | 9.6600 | | 11.0000 |
| Cobalt, Total | ug/L | MW-37A | 05/03/2021 | | 10.6000 | | 11.0000 |
| Cobalt, Total | ug/L | MW-37A | 11/09/2021 | | 12.5000 | * | 11.0000 |
| Cobalt, Total | ug/L | MW-37A | 05/17/2022 | | 14.0000 | * | 11.0000 |
| Cobalt, Total | ug/L | MW-37A | 10/17/2022 | | 13.2000 | * | 11.0000 |
| Cobalt, Total | ug/L | MW-37A | 06/08/2023 | | 16.0000 | * | 11.0000 |
| Cobalt, Total | ug/L | MW-37A | 10/05/2023 | | 18.7000 | * | 11.0000 |
| Cobalt, Total | ug/L | MW-37A | 05/20/2024 | | 18.4000 | * | 11.0000 |
| Cobalt, Total | ug/L | MW-37A | 10/02/2024 | | 23.9000 | * | 11.0000 |
| Cobalt, Total | ug/L | MW-37A | 05/12/2025 | | 23.0000 | * | 11.0000 |
| Cobalt, Total | ug/L | MW-37A | 10/14/2025 | | 21.2000 | * | 11.0000 |
| Nickel, Total | ug/L | MW-37A | 10/26/2009 | | 40.8000 | * | 21.0000 |
| Nickel, Total | ug/L | MW-37A | 11/23/2009 | | 39.0000 | * | 21.0000 |
| Nickel, Total | ug/L | MW-37A | 12/17/2009 | | 40.4000 | * | 21.0000 |
| Nickel, Total | ug/L | MW-37A | 04/13/2010 | | 37.8000 | * | 21.0000 |
| Nickel, Total | ug/L | MW-37A | 05/18/2010 | | 35.9000 | * | 21.0000 |
| Nickel, Total | ug/L | MW-37A | 06/21/2010 | | 37.8000 | * | 21.0000 |
| Nickel, Total | ug/L | MW-37A | 07/09/2010 | | 36.9000 | * | 21.0000 |
| Nickel, Total | ug/L | MW-37A | 08/18/2010 | | 40.7000 | * | 21.0000 |
| Nickel, Total | ug/L | MW-37A | 10/18/2010 | | 42.2000 | * | 21.0000 |
| Nickel, Total | ug/L | MW-37A | 05/09/2011 | | 38.0000 | * | 21.0000 |
| Nickel, Total | ug/L | MW-37A | 10/19/2011 | | 46.0000 | * | 21.0000 |
| Nickel, Total | ug/L | MW-37A | 04/24/2012 | | 48.0000 | * | 21.0000 |
| Nickel, Total | ug/L | MW-37A | 10/25/2012 | | 54.0000 | * | 21.0000 |
| Nickel, Total | ug/L | MW-37A | 05/07/2013 | | 66.0000 | * | 21.0000 |
| Nickel, Total | ug/L | MW-37A | 11/11/2013 | | 60.0000 | * | 21.0000 |
| Nickel, Total | ug/L | MW-37A | 05/13/2014 | | 64.0000 | * | 21.0000 |
| Nickel, Total | ug/L | MW-37A | 05/27/2015 | | 57.0000 | * | 21.0000 |
| Nickel, Total | ug/L | MW-37A | 11/18/2015 | | 100.0000 | * | 21.0000 |
| Nickel, Total | ug/L | MW-37A | 06/16/2016 | | 45.0000 | * | 21.0000 |
| Nickel, Total | ug/L | MW-37A | 11/16/2016 | | 48.0000 | * | 21.0000 |
| Nickel, Total | ug/L | MW-37A | 05/30/2017 | | 51.0000 | * | 21.0000 |
| Nickel, Total | ug/L | MW-37A | 11/21/2017 | | 51.0000 | * | 21.0000 |
| Nickel, Total | ug/L | MW-37A | 05/31/2018 | | 53.0000 | * | 21.0000 |
| Nickel, Total | ug/L | MW-37A | 10/31/2018 | | 63.0000 | * | 21.0000 |
| Nickel, Total | ug/L | MW-37A | 05/28/2019 | | 77.0000 | * | 21.0000 |
| Nickel, Total | ug/L | MW-37A | 10/15/2019 | | 75.0000 | * | 21.0000 |
| Nickel, Total | ug/L | MW-37A | 06/03/2020 | | 83.4000 | * | 21.0000 |
| Nickel, Total | ug/L | MW-37A | 10/07/2020 | | 101.0000 | * | 21.0000 |
| Nickel, Total | ug/L | MW-37A | 05/03/2021 | | 90.3000 | * | 21.0000 |
| Nickel, Total | ug/L | MW-37A | 11/09/2021 | | 106.0000 | * | 21.0000 |
| Nickel, Total | ug/L | MW-37A | 05/17/2022 | | 102.0000 | * | 21.0000 |
| Nickel, Total | ug/L | MW-37A | 10/17/2022 | | 135.0000 | * | 21.0000 |
| Nickel, Total | ug/L | MW-37A | 06/08/2023 | | 131.0000 | * | 21.0000 |
| Nickel, Total | ug/L | MW-37A | 10/05/2023 | | 178.0000 | * | 21.0000 |
| Nickel, Total | ug/L | MW-37A | 05/20/2024 | | 181.0000 | * | 21.0000 |
| Nickel, Total | ug/L | MW-37A | 10/02/2024 | | 258.0000 | * | 21.0000 |
| Nickel, Total | ug/L | MW-37A | 05/12/2025 | | 278.0000 | * | 21.0000 |
| Nickel, Total | ug/L | MW-37A | 10/14/2025 | | 289.0000 | * | 21.0000 |
| Nickel, Total | ug/L | MW-38A | 10/26/2009 | | 28.4000 | * | 21.0000 |
| Nickel, Total | ug/L | MW-38A | 11/23/2009 | | 31.1000 | * | 21.0000 |
| Nickel, Total | ug/L | MW-38A | 12/17/2009 | | 35.1000 | * | 21.0000 |
| Nickel, Total | ug/L | MW-38A | 04/13/2010 | | 27.8000 | * | 21.0000 |
| Nickel, Total | ug/L | MW-38A | 05/18/2010 | | 28.0000 | * | 21.0000 |
| Nickel, Total | ug/L | MW-38A | 06/21/2010 | | 28.2000 | * | 21.0000 |
| Nickel, Total | ug/L | MW-38A | 07/09/2010 | | 26.9000 | * | 21.0000 |
| Nickel, Total | ug/L | MW-38A | 08/18/2010 | | 32.6000 | * | 21.0000 |
| Nickel, Total | ug/L | MW-38A | 10/18/2010 | | 38.0000 | * | 21.0000 |
| Nickel, Total | ug/L | MW-38A | 05/09/2011 | | 26.0000 | * | 21.0000 |
| Nickel, Total | ug/L | MW-38A | 10/19/2011 | | 25.0000 | * | 21.0000 |
| Nickel, Total | ug/L | MW-38A | 04/24/2012 | | 27.0000 | * | 21.0000 |
| Nickel, Total | ug/L | MW-38A | 10/25/2012 | | 24.0000 | * | 21.0000 |

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

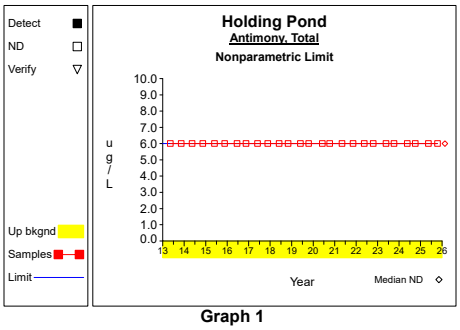
## Table 8

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

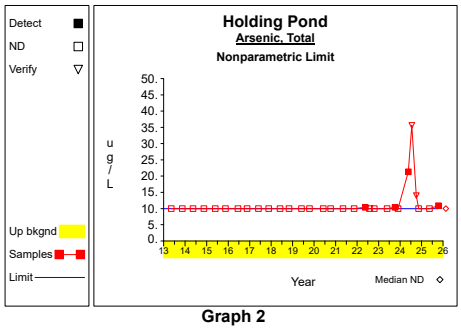
| Constituent | Units | Well | Date | | Result | | Pred. Limit |
|---|---|---|---|---|---|---|---|
| Nickel, Total | ug/L | MW-38A | 05/07/2013 | | 25.0000 | * | 21.0000 |
| Nickel, Total | ug/L | MW-38A | 11/11/2013 | | 26.0000 | * | 21.0000 |
| Nickel, Total | ug/L | MW-38A | 05/13/2014 | | 19.0000 | | 21.0000 |
| Nickel, Total | ug/L | MW-38A | 05/27/2015 | | 19.0000 | | 21.0000 |
| Nickel, Total | ug/L | MW-38A | 11/18/2015 | ND | 10.0000 | | 21.0000 |
| Nickel, Total | ug/L | MW-38A | 06/16/2016 | | 10.0000 | | 21.0000 |
| Nickel, Total | ug/L | MW-38A | 11/16/2016 | | 10.0000 | | 21.0000 |
| Nickel, Total | ug/L | MW-38A | 05/30/2017 | | 13.0000 | | 21.0000 |
| Nickel, Total | ug/L | MW-38A | 11/21/2017 | | 16.0000 | | 21.0000 |
| Nickel, Total | ug/L | MW-38A | 05/31/2018 | | 17.0000 | | 21.0000 |
| Nickel, Total | ug/L | MW-38A | 10/31/2018 | | 18.0000 | | 21.0000 |
| Nickel, Total | ug/L | MW-38A | 05/28/2019 | | 18.0000 | | 21.0000 |
| Nickel, Total | ug/L | MW-38A | 10/15/2019 | | 21.0000 | | 21.0000 |
| Nickel, Total | ug/L | MW-38A | 06/03/2020 | | 26.5000 | * | 21.0000 |
| Nickel, Total | ug/L | MW-38A | 10/07/2020 | | 30.9000 | * | 21.0000 |
| Nickel, Total | ug/L | MW-38A | 05/03/2021 | | 27.7000 | * | 21.0000 |
| Nickel, Total | ug/L | MW-38A | 11/09/2021 | | 29.6000 | * | 21.0000 |
| Nickel, Total | ug/L | MW-38A | 05/17/2022 | | 30.6000 | * | 21.0000 |
| Nickel, Total | ug/L | MW-38A | 10/17/2022 | | 36.1000 | * | 21.0000 |
| Nickel, Total | ug/L | MW-38A | 05/22/2023 | | 25.7000 | * | 21.0000 |
| Nickel, Total | ug/L | MW-38A | 10/23/2023 | | 28.8000 | * | 21.0000 |
| Nickel, Total | ug/L | MW-38A | 05/20/2024 | | 39.1000 | * | 21.0000 |
| Nickel, Total | ug/L | MW-38A | 10/02/2024 | | 31.6000 | * | 21.0000 |
| Nickel, Total | ug/L | MW-38A | 05/12/2025 | | 31.7000 | * | 21.0000 |
| Nickel, Total | ug/L | MW-38A | 10/14/2025 | | 31.5000 | * | 21.0000 |

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

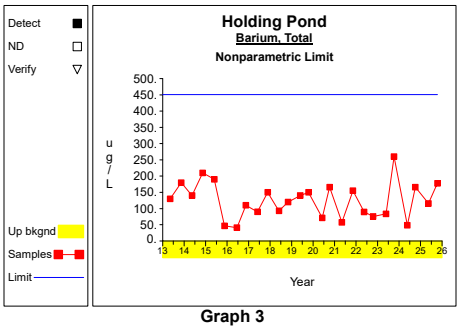
# Up vs. Down Prediction Limits



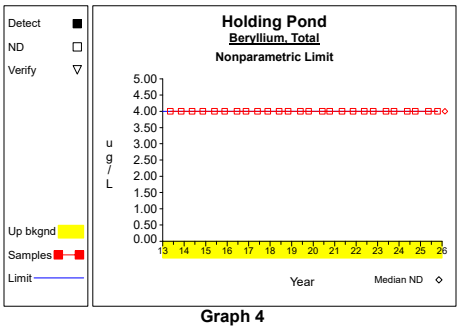

Graph 1



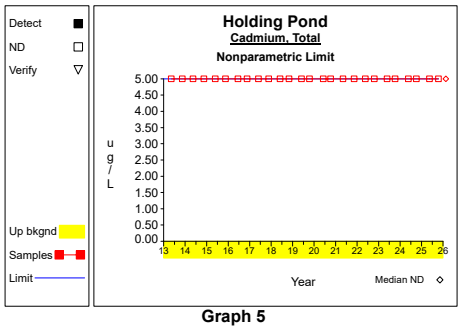

Graph 2



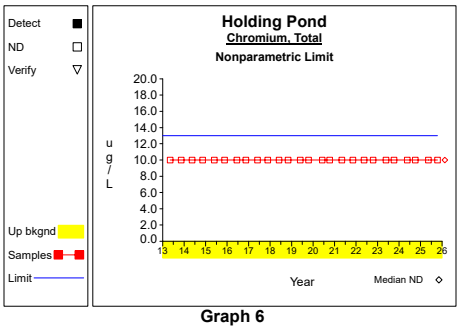

Graph 3



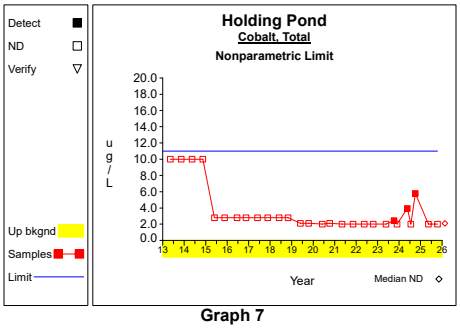

Graph 4



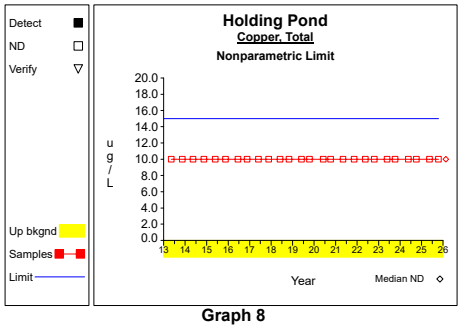

Graph 5



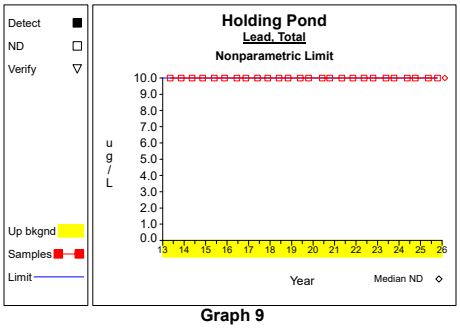

Graph 6



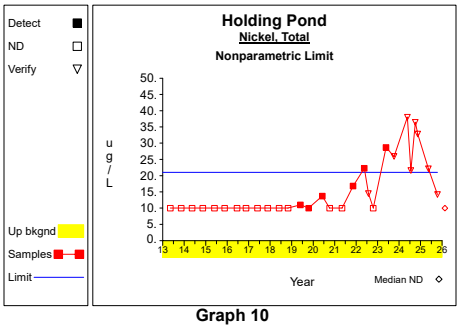

Graph 7



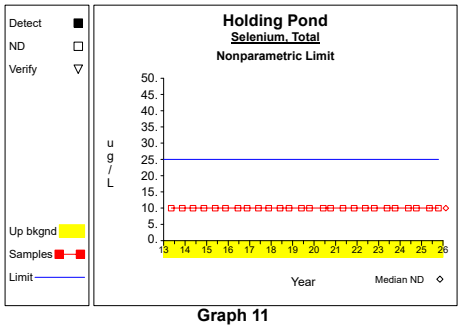

Graph 8



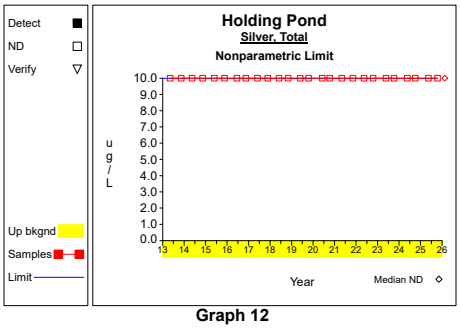

Graph 9



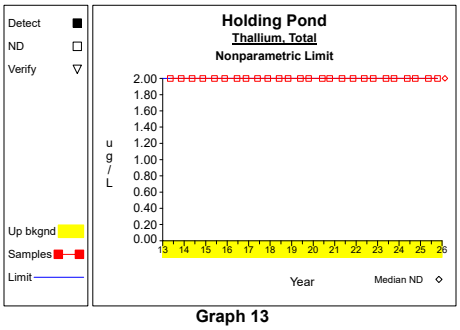

Graph 10



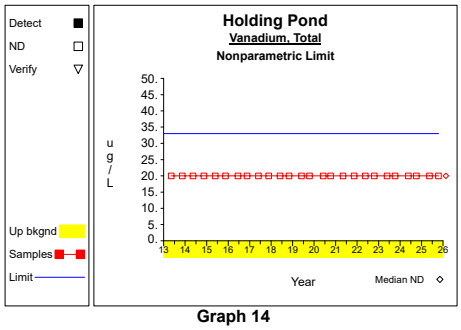

Graph 11



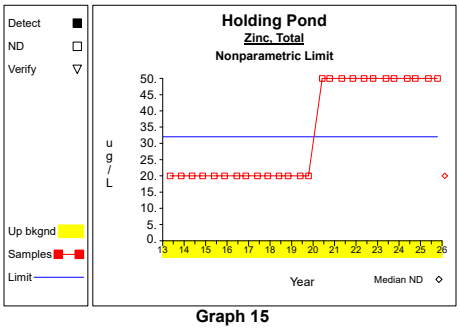

Graph 12




Graph 13



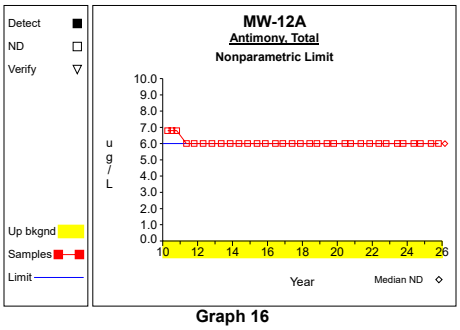

Graph 14



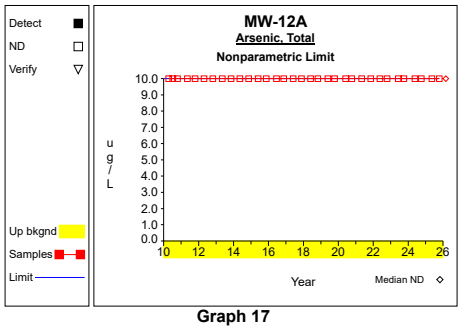

Graph 15

Prepared by: Otter Creek Environmental

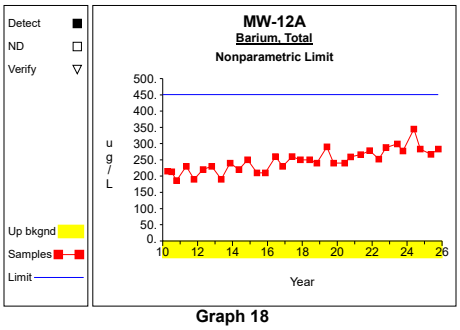
# Up vs. Down Prediction Limits



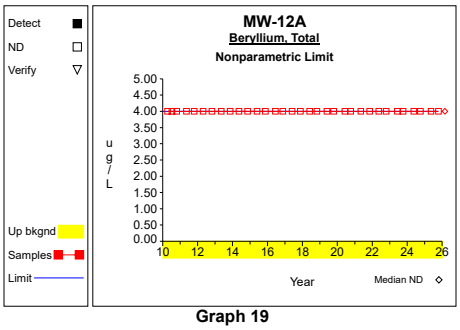

Graph 16



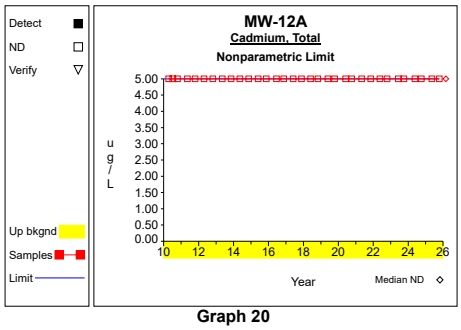

Graph 17



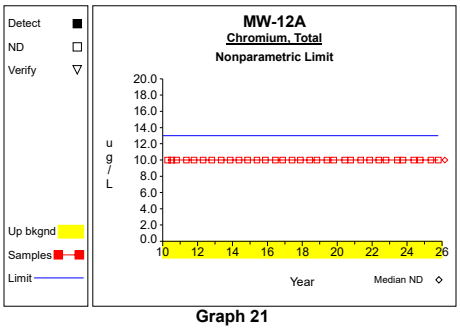

Graph 18



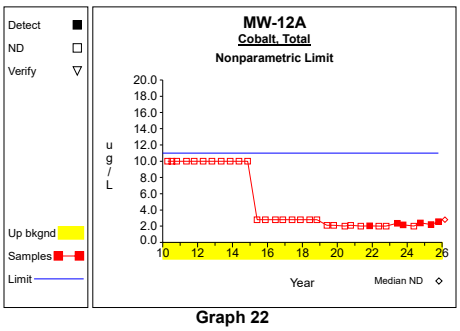

Graph 19



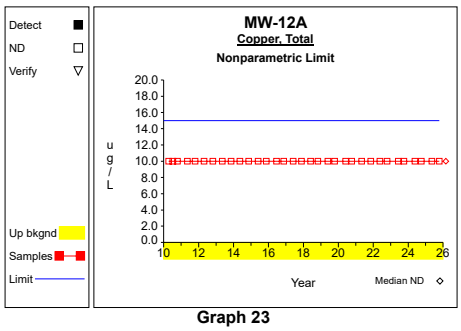

Graph 20



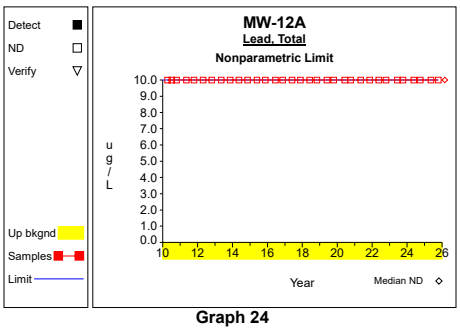

Graph 21



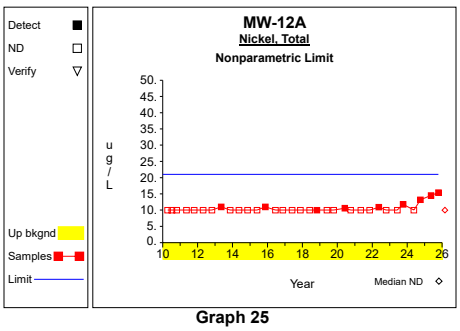

Graph 22



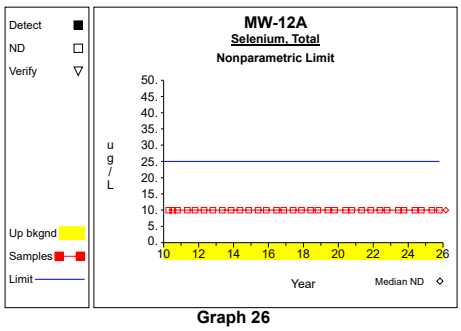

Graph 23



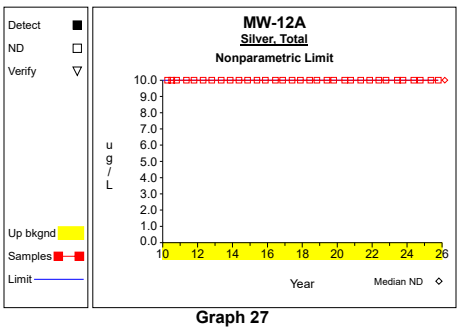

Graph 24



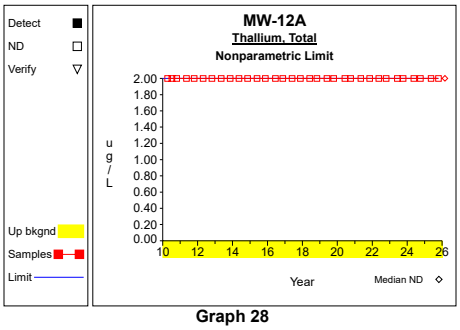

Graph 25



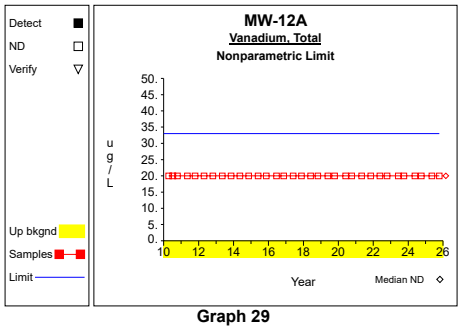

Graph 26



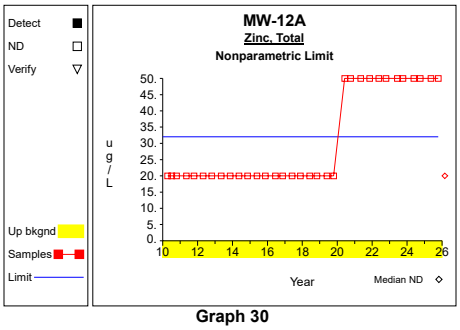

Graph 27




Graph 28



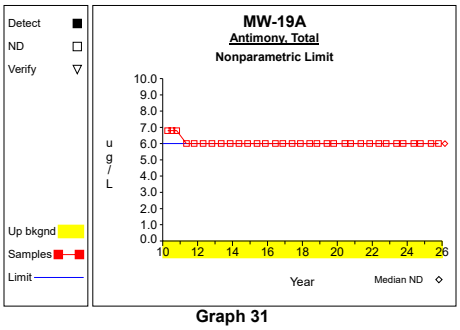

Graph 29



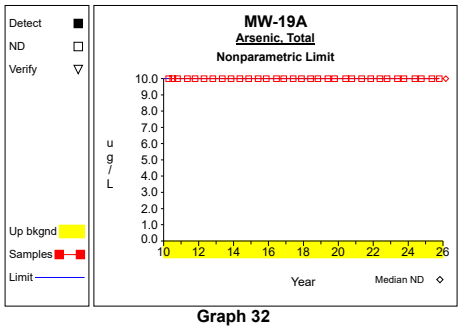

Graph 30

Prepared by: Otter Creek Environmental

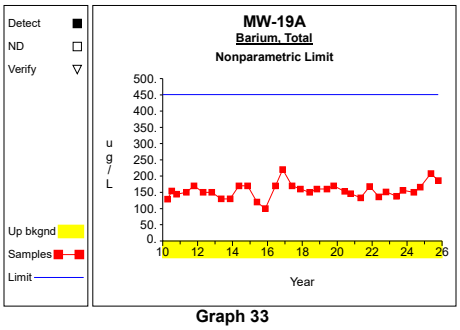
# Up vs. Down Prediction Limits



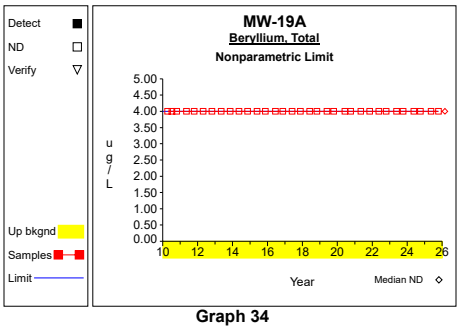

Graph 31



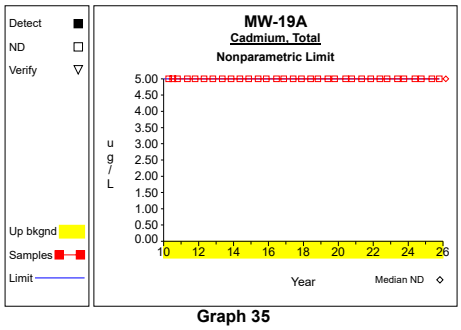

Graph 32



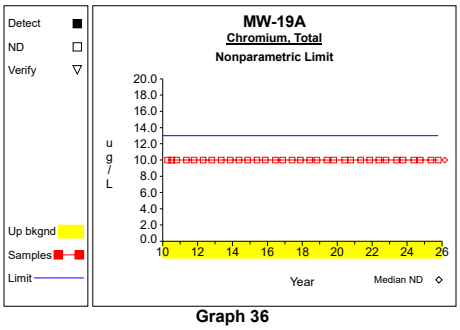

Graph 33



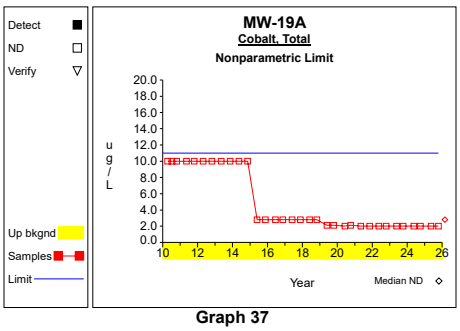

Graph 34



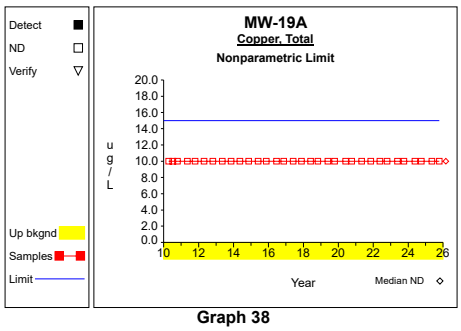

Graph 35



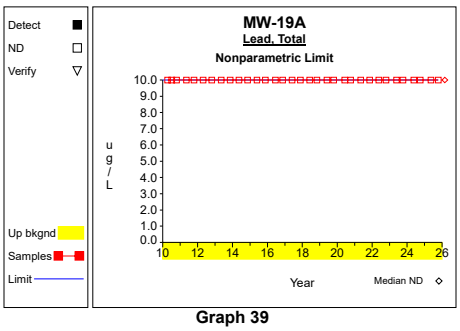

Graph 36



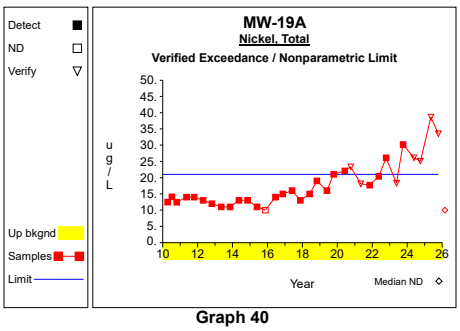

Graph 37



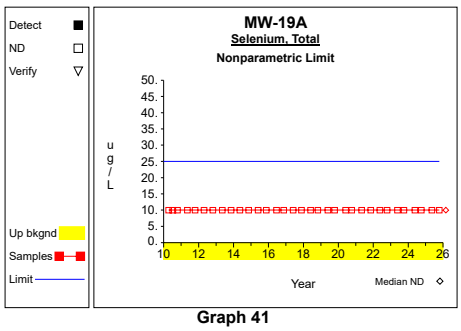

Graph 38



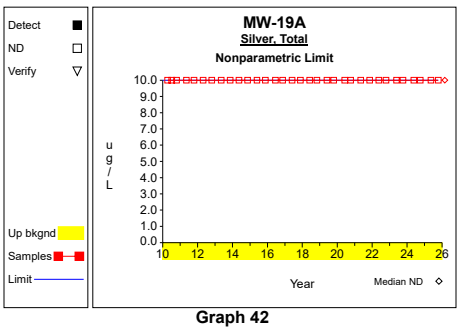

Graph 39



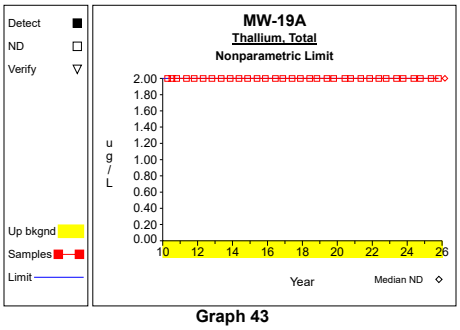

Graph 40



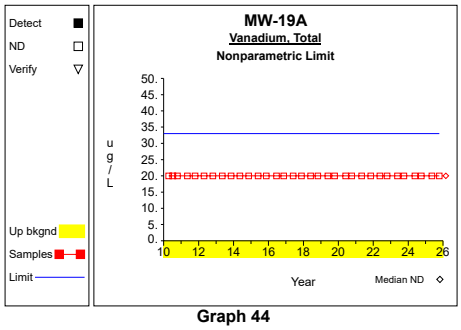

Graph 41



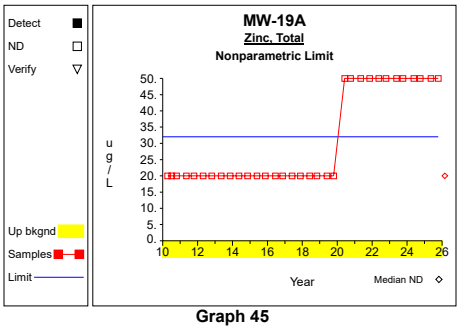

Graph 42




Graph 43



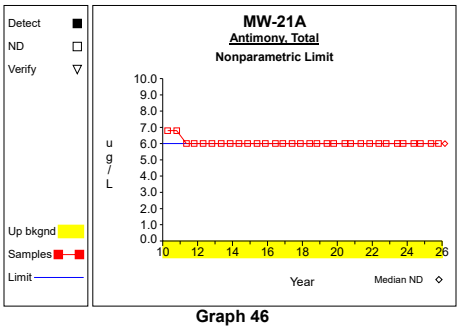

Graph 44



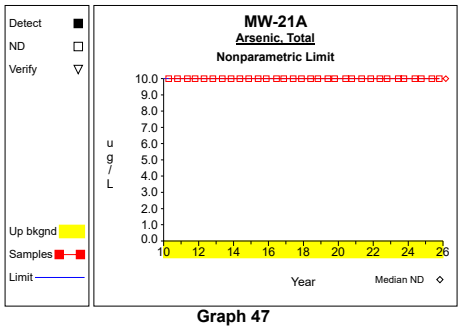

Graph 45

Prepared by: Otter Creek Environmental

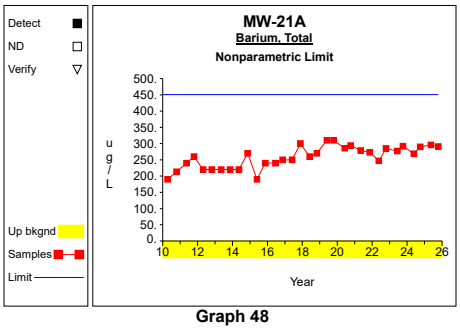
# Up vs. Down Prediction Limits



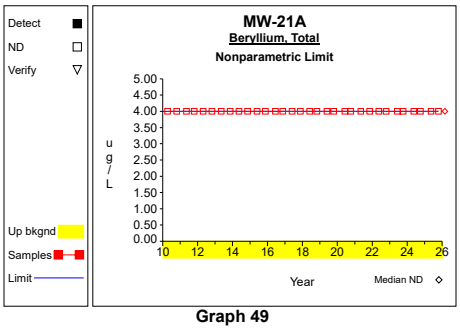

Graph 46



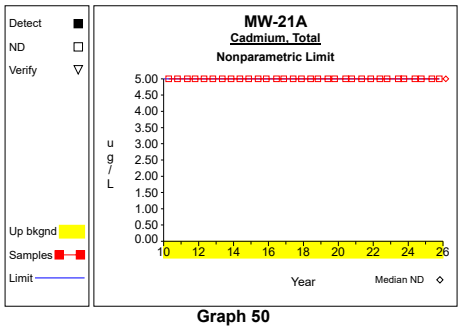

Graph 47



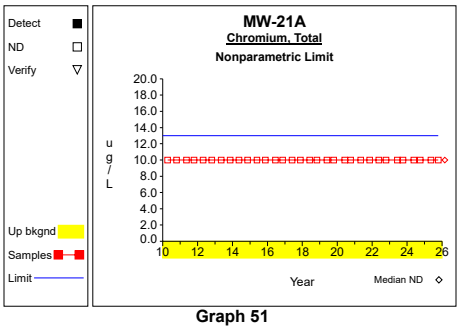

Graph 48



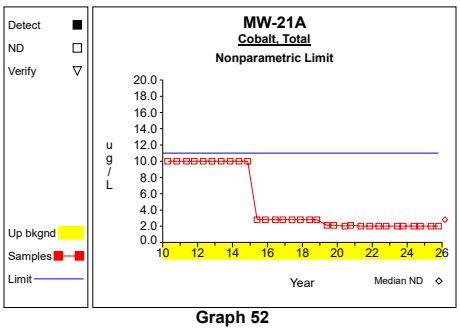

Graph 49



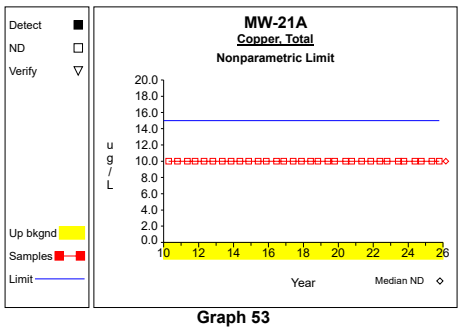

Graph 50



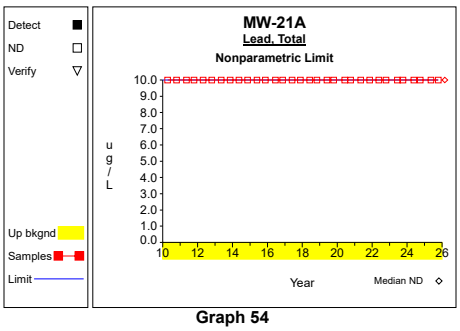

Graph 51



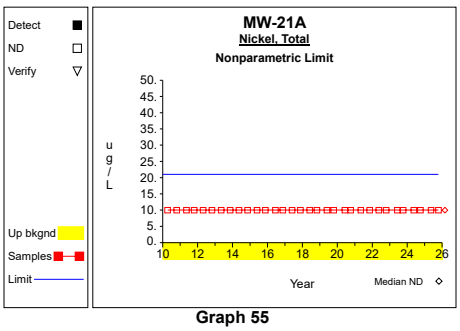

Graph 52



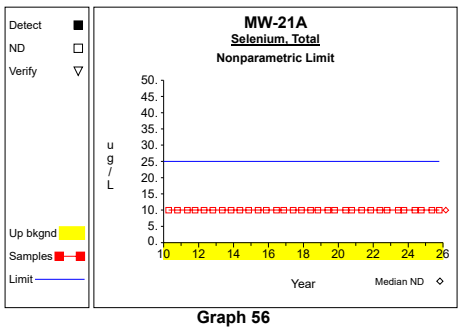

Graph 53



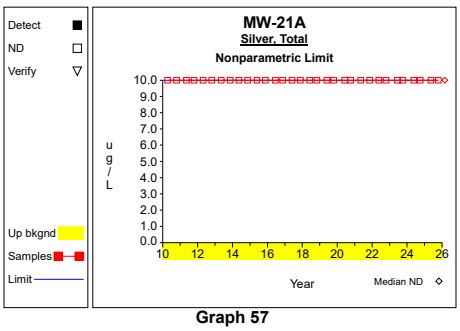

Graph 54



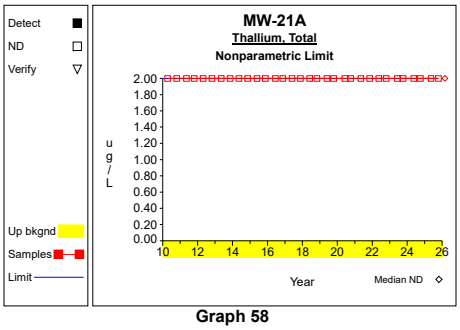

Graph 55



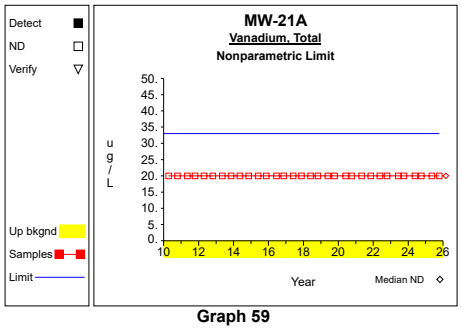

Graph 56



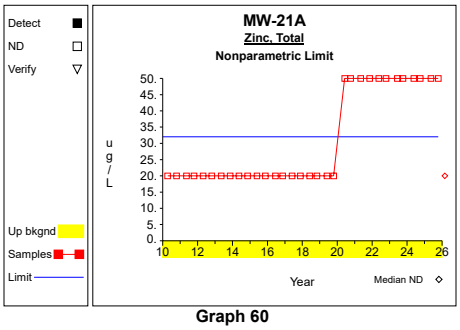

Graph 57




Graph 58



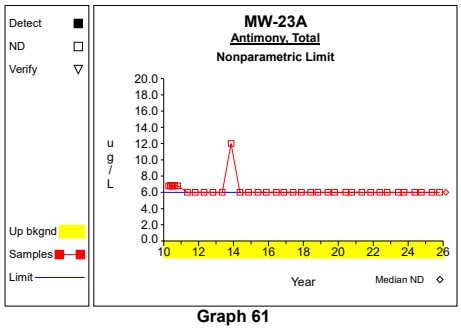

Graph 59



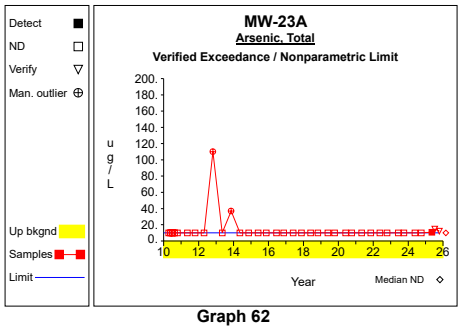

Graph 60

Prepared by: Otter Creek Environmental

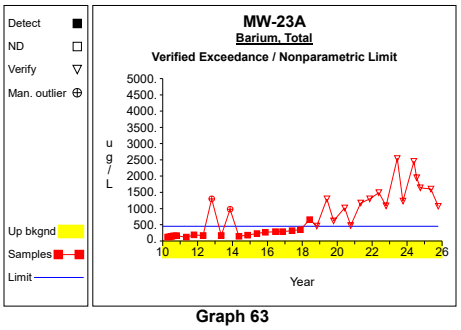
# Up vs. Down Prediction Limits



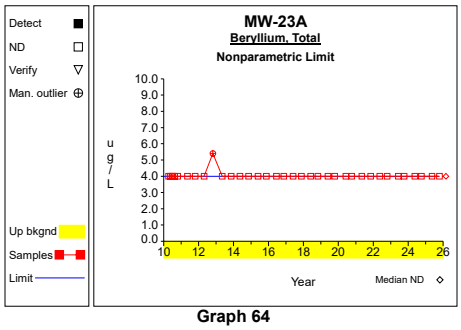

Graph 61



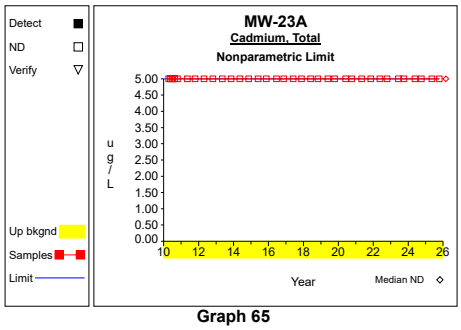

Graph 62



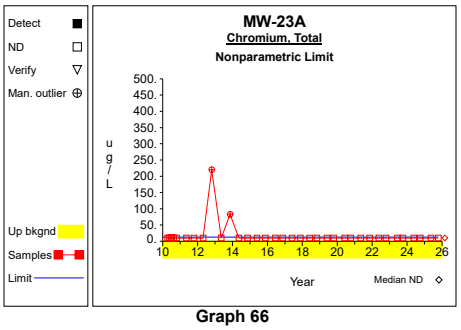

Graph 63



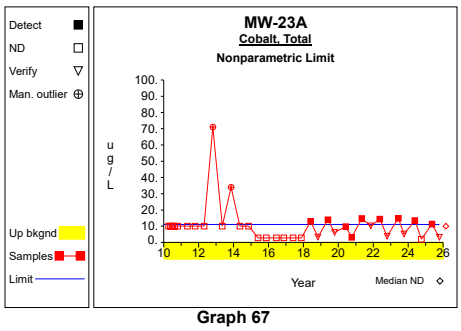

Graph 64



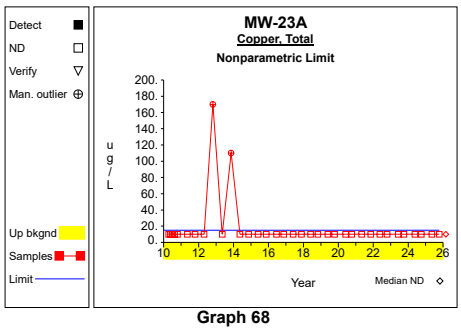

Graph 65



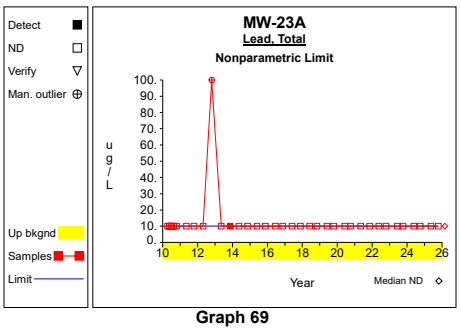

Graph 66



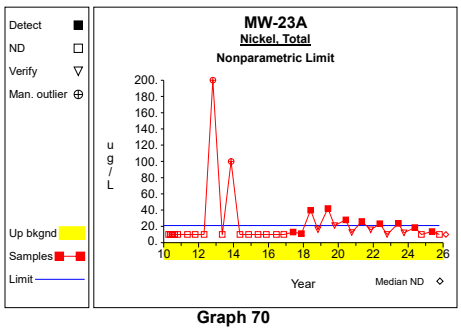

Graph 67



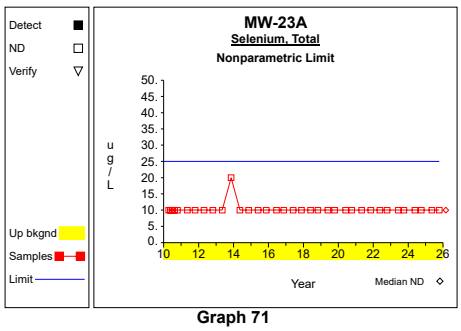

Graph 68



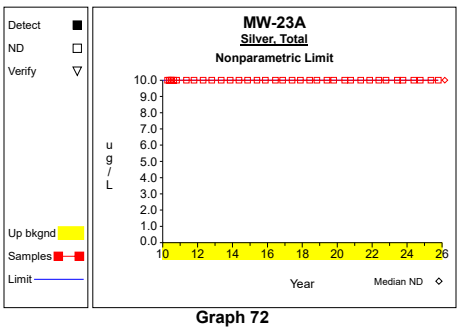

Graph 69



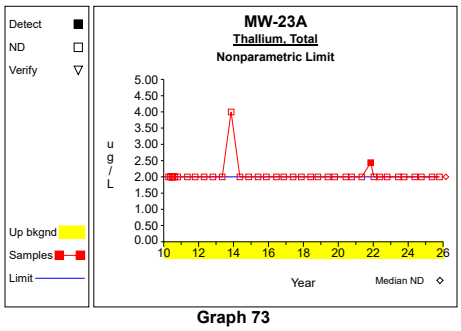

Graph 70



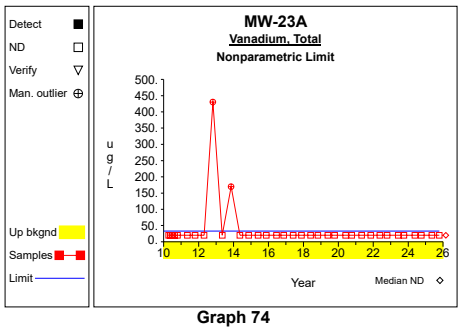

Graph 71



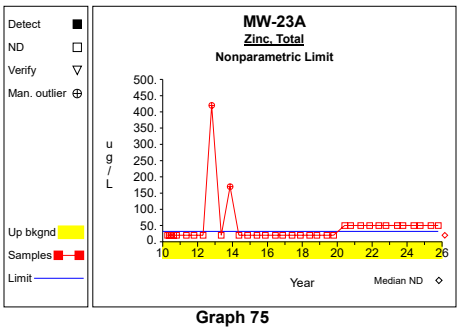

Graph 72




Graph 73



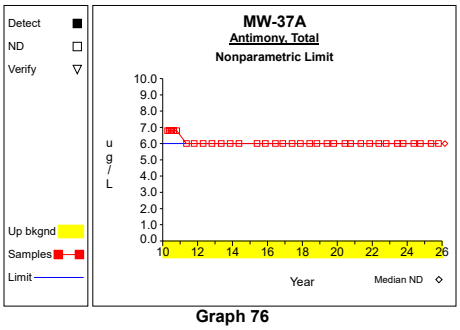

Graph 74



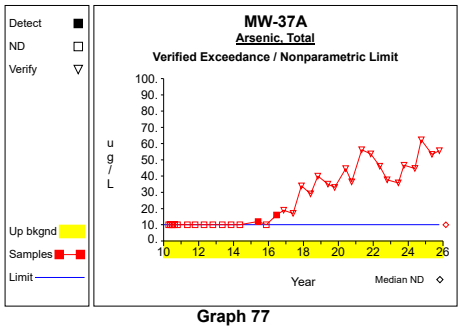

Graph 75

Prepared by: Otter Creek Environmental

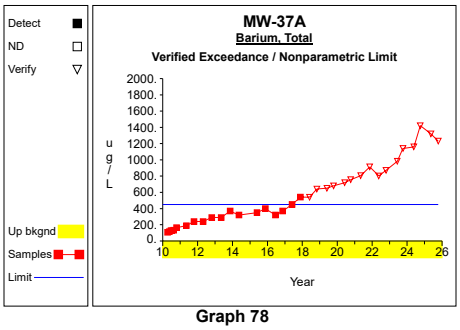
# Up vs. Down Prediction Limits



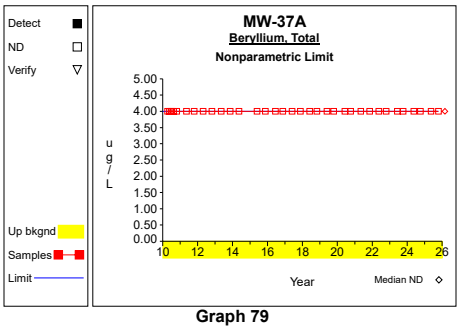

Graph 76



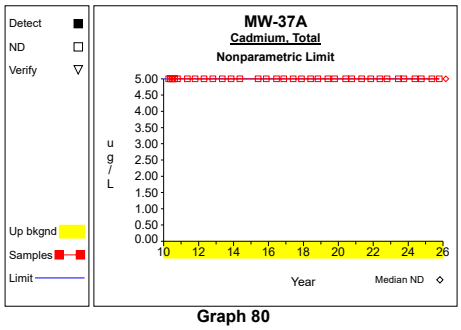

Graph 77



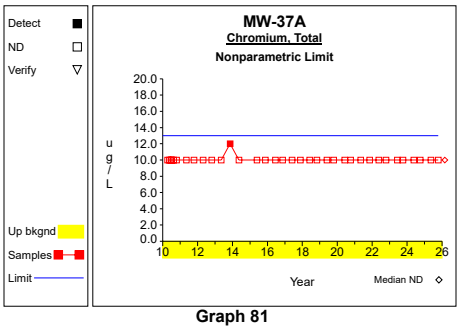

Graph 78



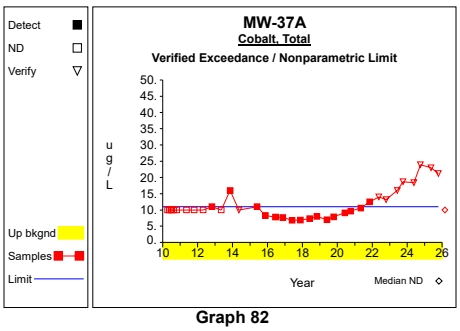

Graph 79



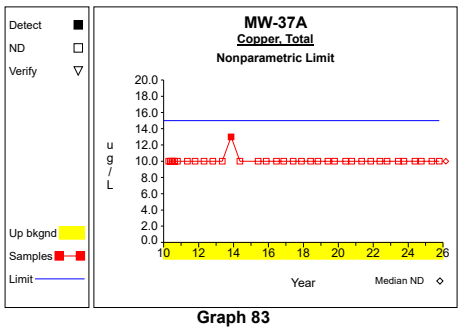

Graph 80



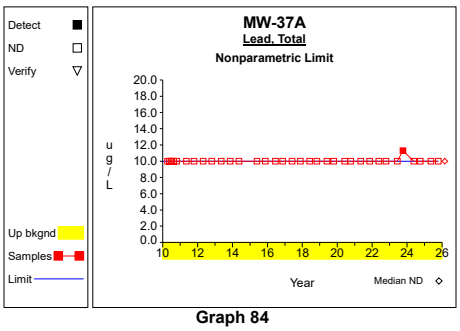

Graph 81



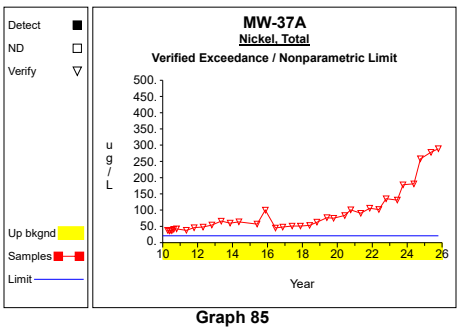

Graph 82



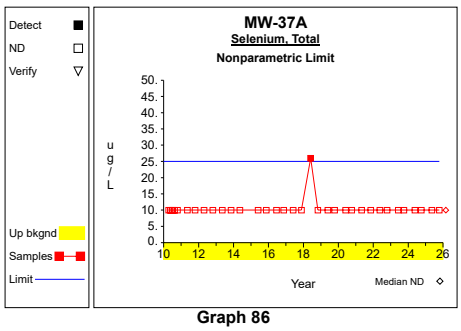

Graph 83



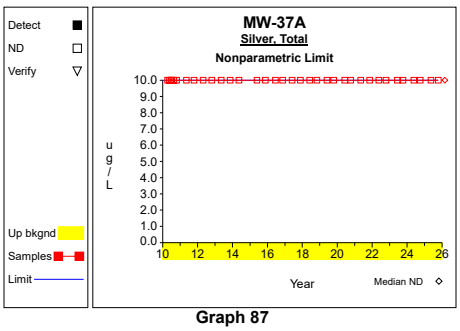

Graph 84



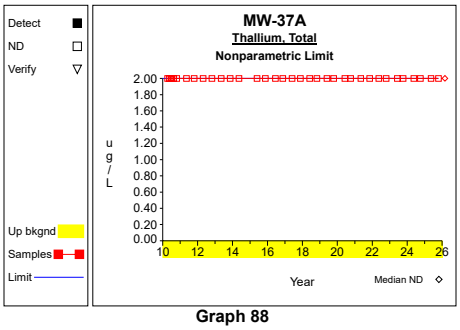

Graph 85



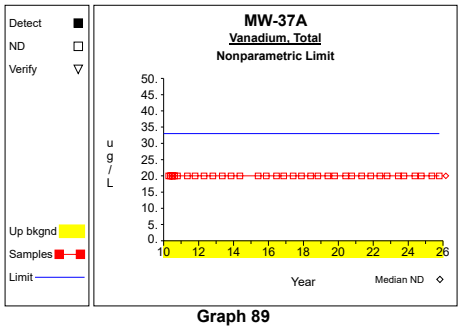

Graph 86



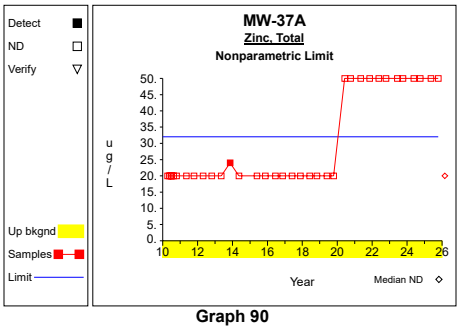

Graph 87




Graph 88



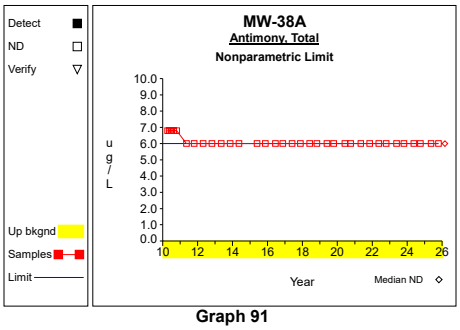

Graph 89



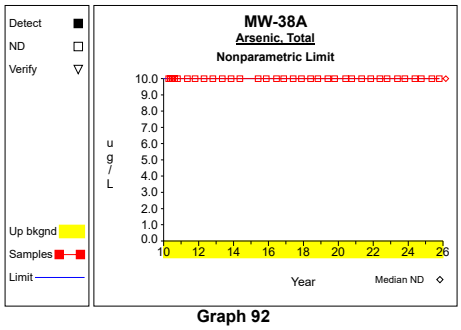

Graph 90

Prepared by: Otter Creek Environmental

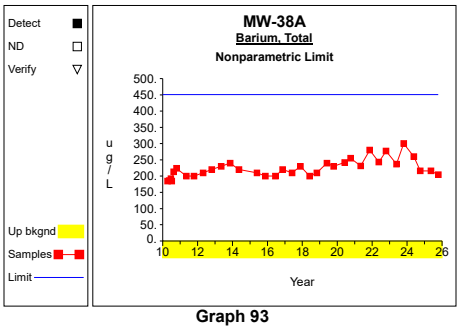
# Up vs. Down Prediction Limits



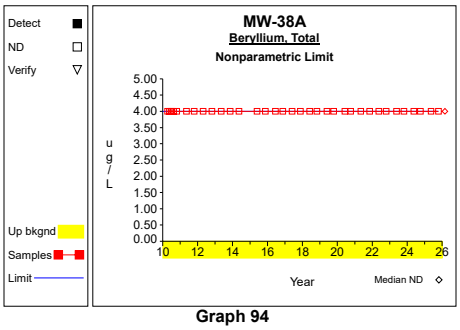

Graph 91



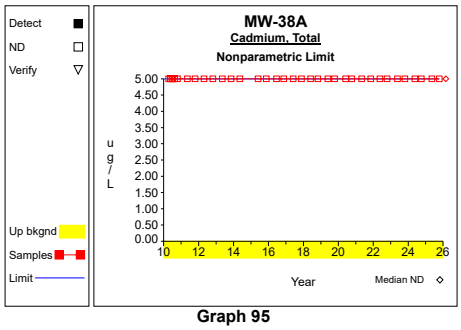

Graph 92



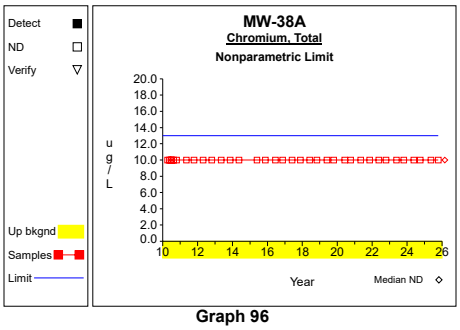

Graph 93



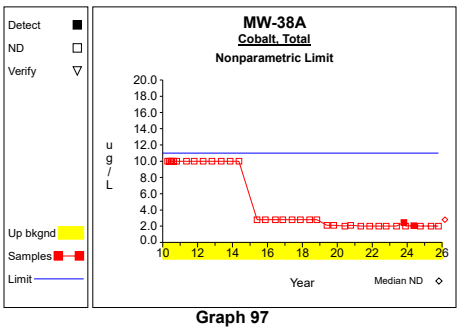

Graph 94



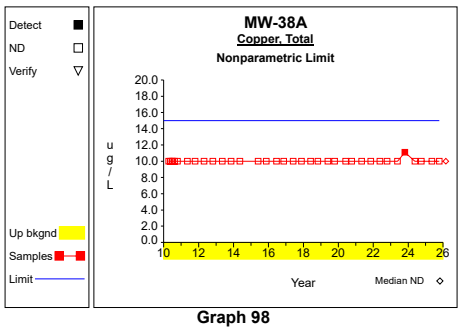

Graph 95



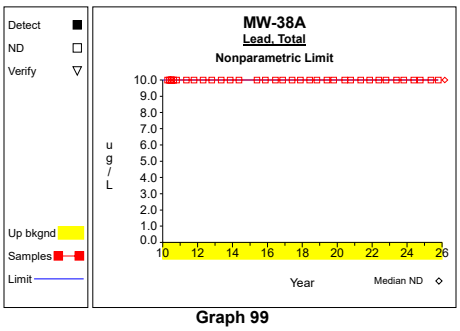

Graph 96



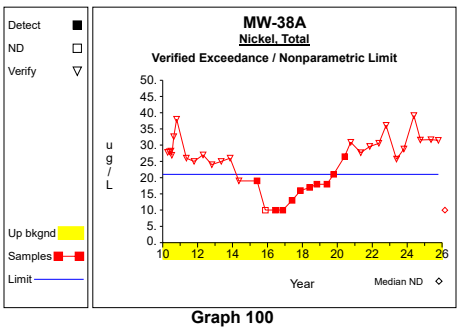

Graph 97



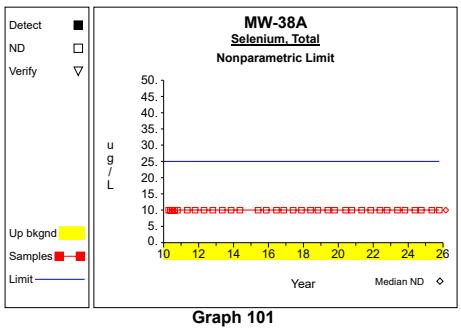

Graph 98



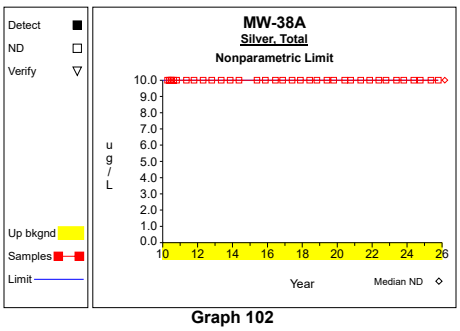

Graph 99



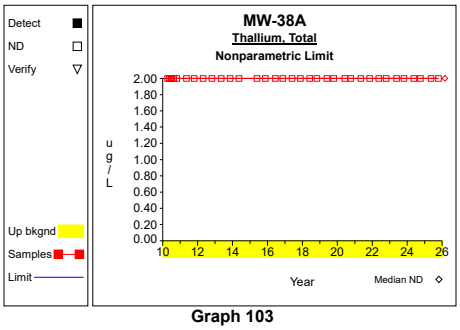

Graph 100



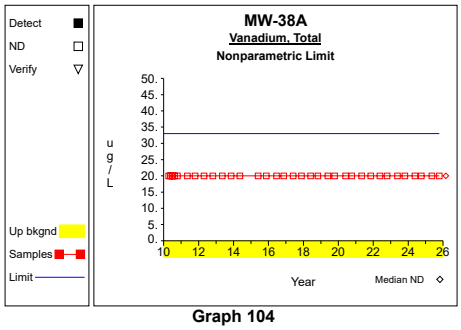

Graph 101



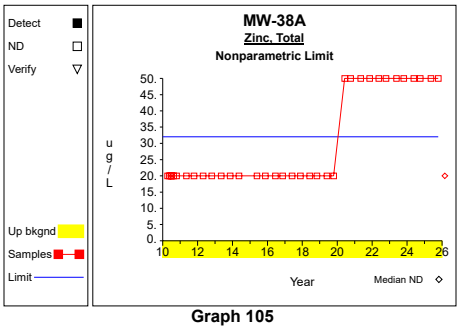

Graph 102




Graph 103



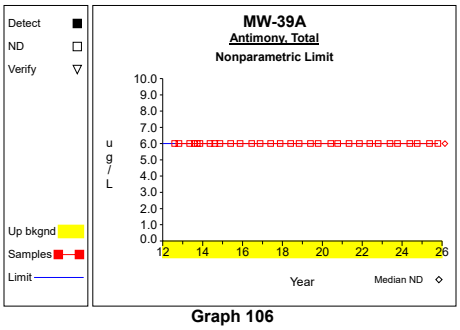

Graph 104



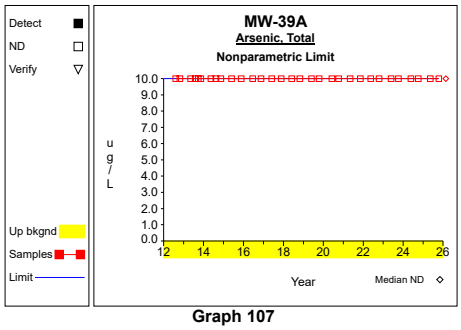

Graph 105

Prepared by: Otter Creek Environmental

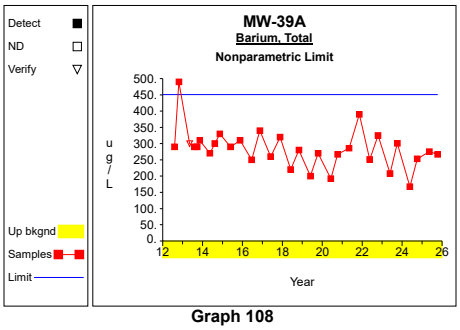
# Up vs. Down Prediction Limits



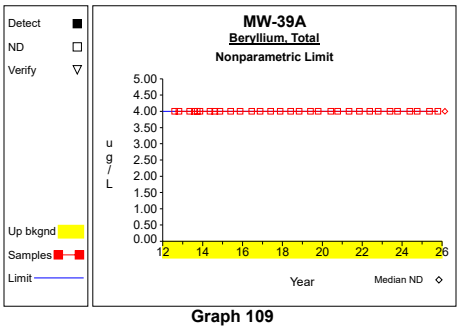

Graph 106



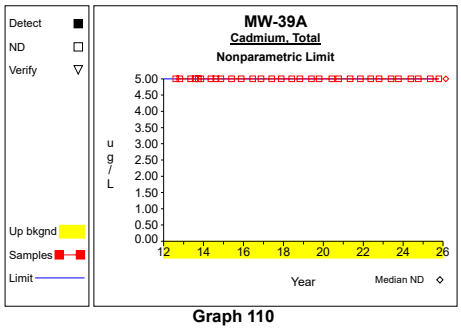

Graph 107



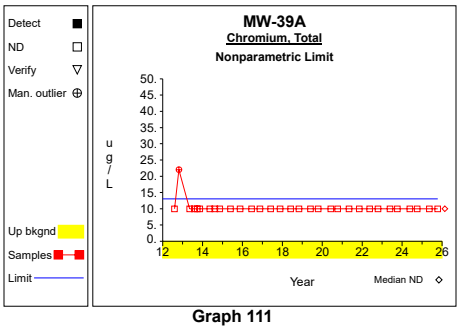

Graph 108



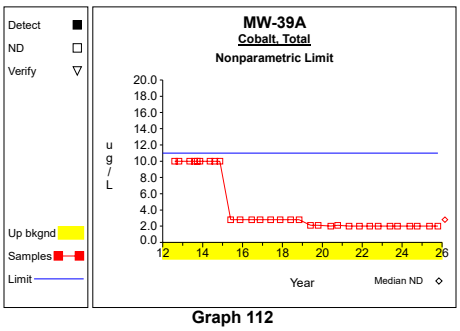

Graph 109



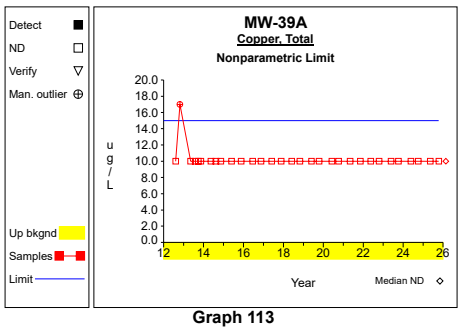

Graph 110



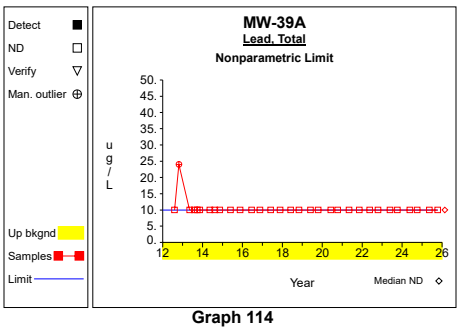

Graph 111



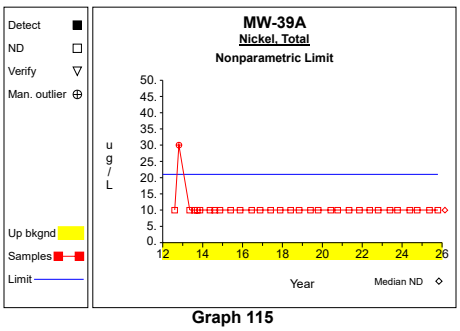

Graph 112



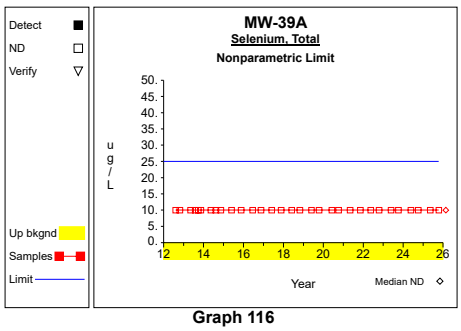

Graph 113



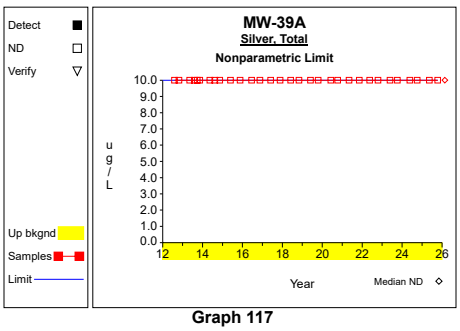

Graph 114



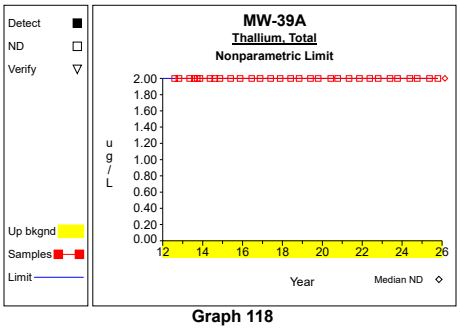

Graph 115



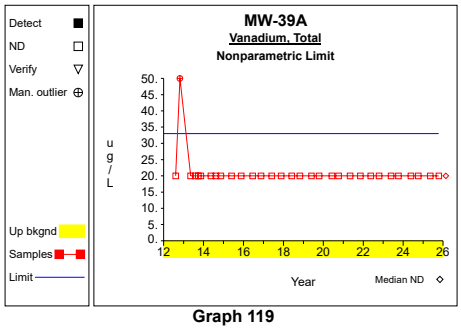

Graph 116



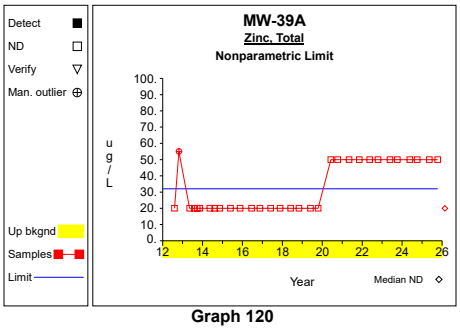

Graph 117




Graph 118



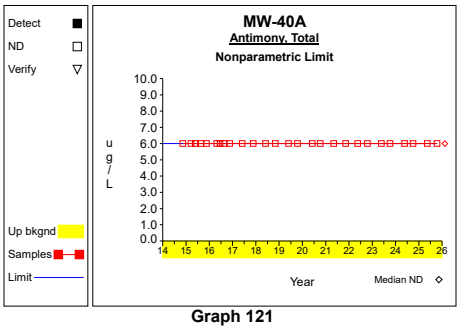

Graph 119



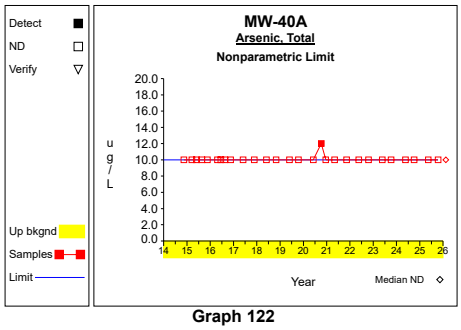

Graph 120

Prepared by: Otter Creek Environmental

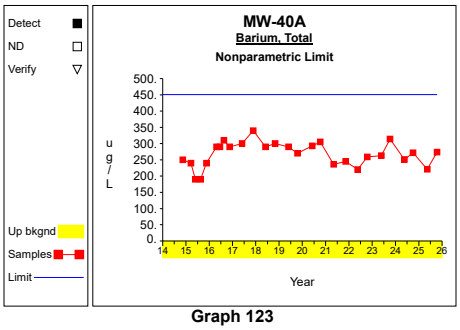
# Up vs. Down Prediction Limits



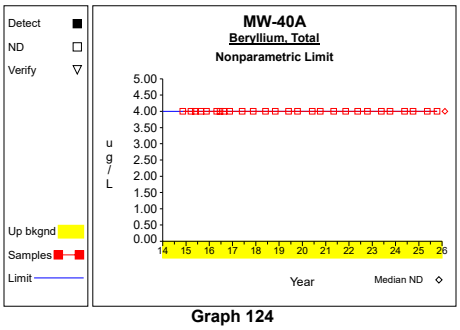

Graph 121



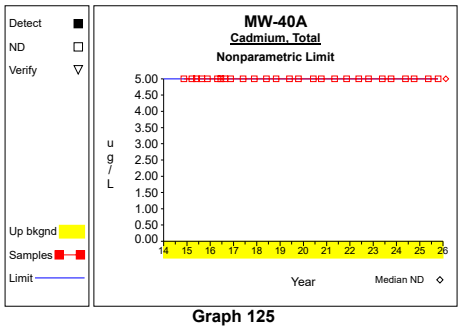

Graph 122



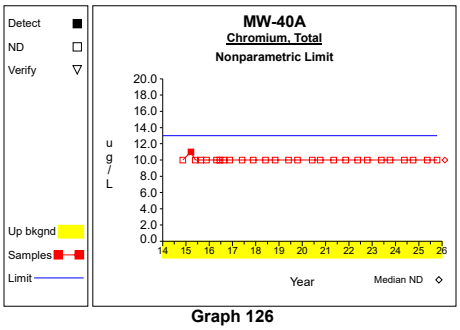

Graph 123



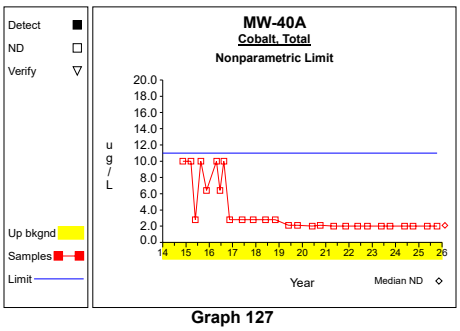

Graph 124



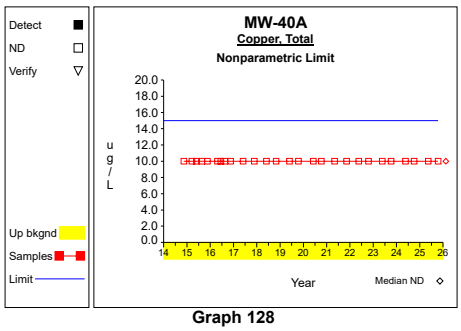

Graph 125



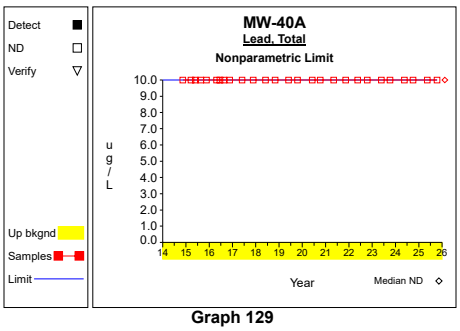

Graph 126



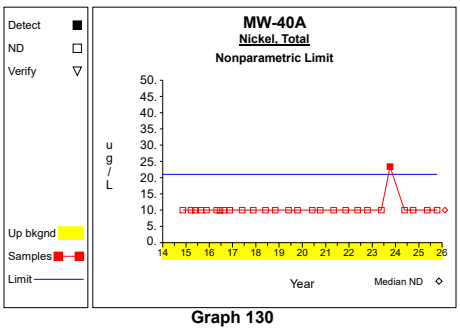

Graph 127



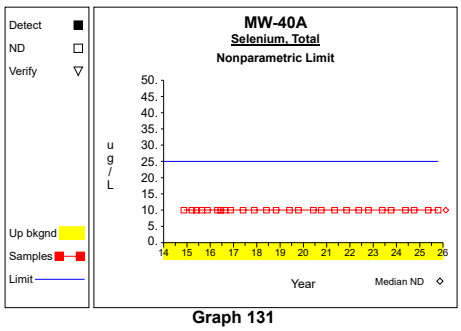

Graph 128



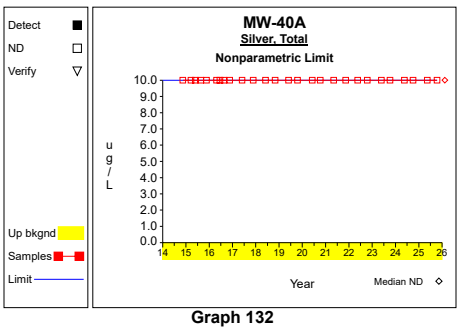

Graph 129



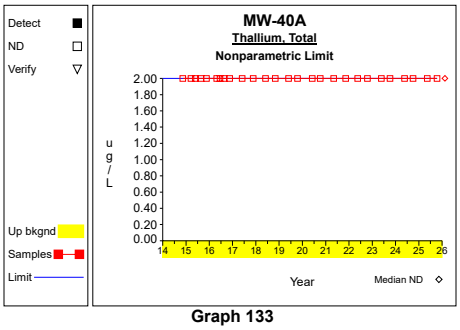

Graph 130



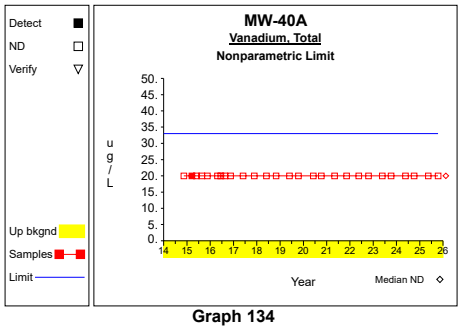

Graph 131



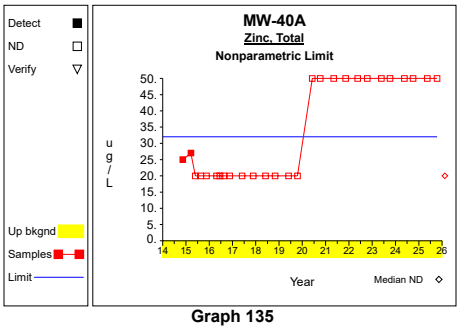

Graph 132




Graph 133



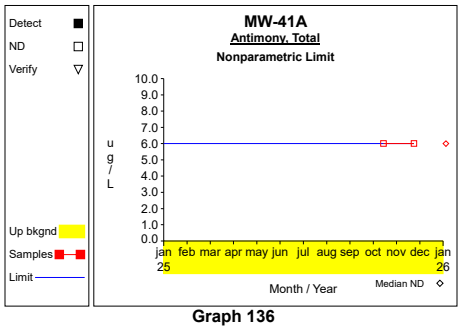

Graph 134



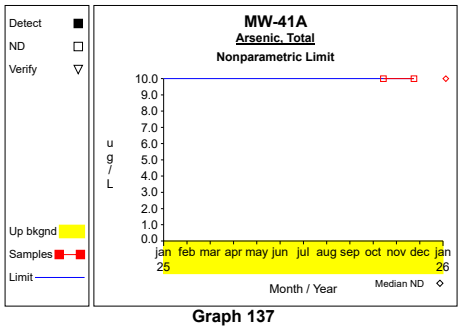

Graph 135

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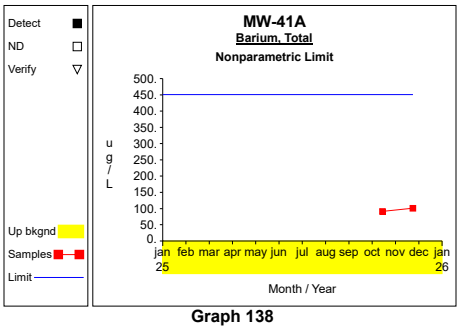
# Up vs. Down Prediction Limits



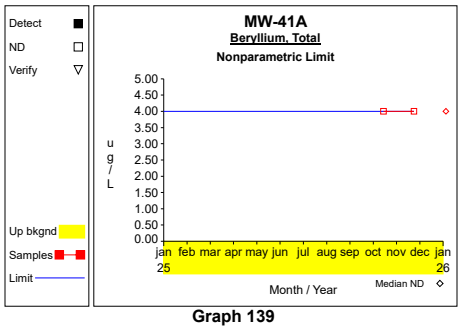

Graph 136



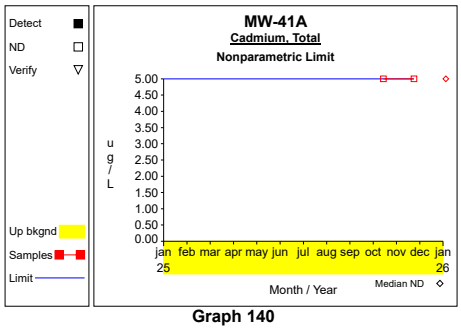

Graph 137



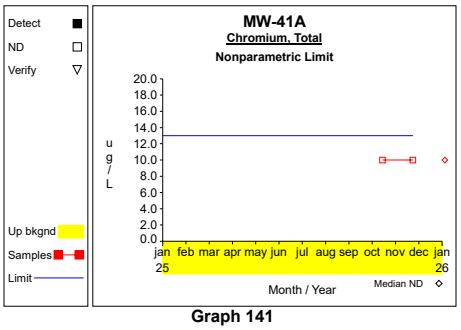

Graph 138



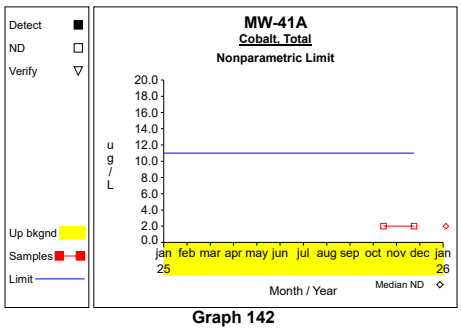

Graph 139



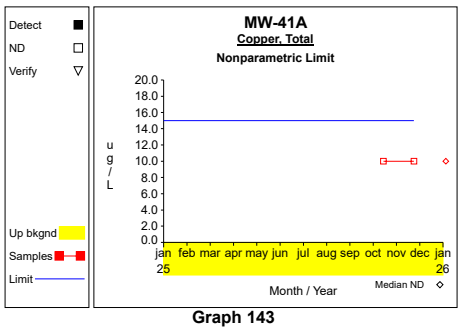

Graph 140



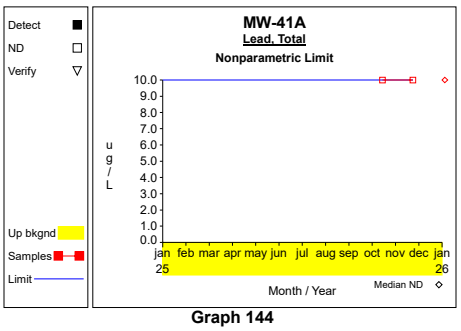

Graph 141



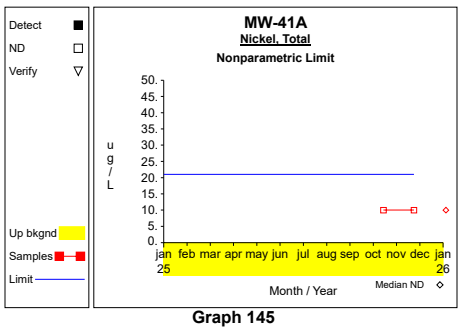

Graph 142



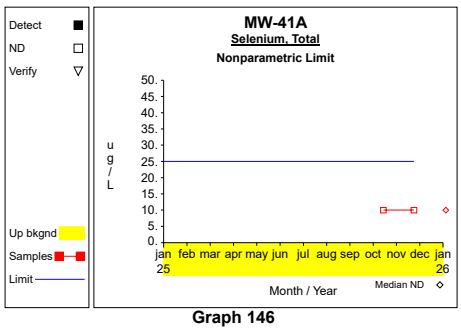

Graph 143



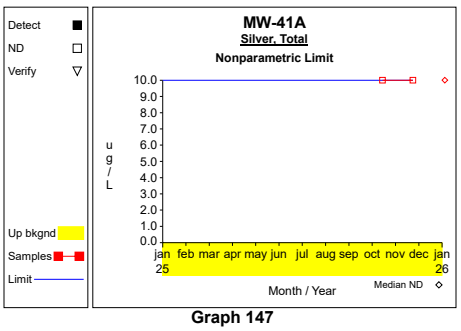

Graph 144



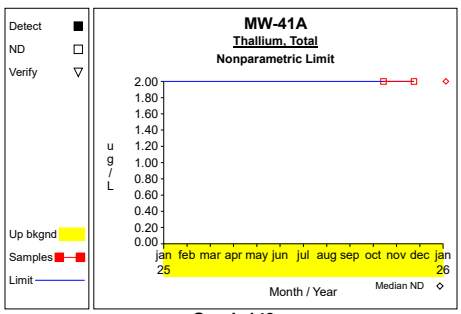

Graph 145



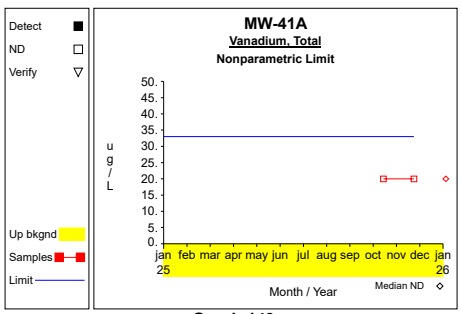

Graph 146



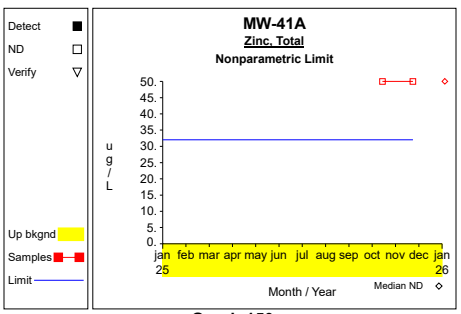

Graph 147




Graph 148




Graph 149

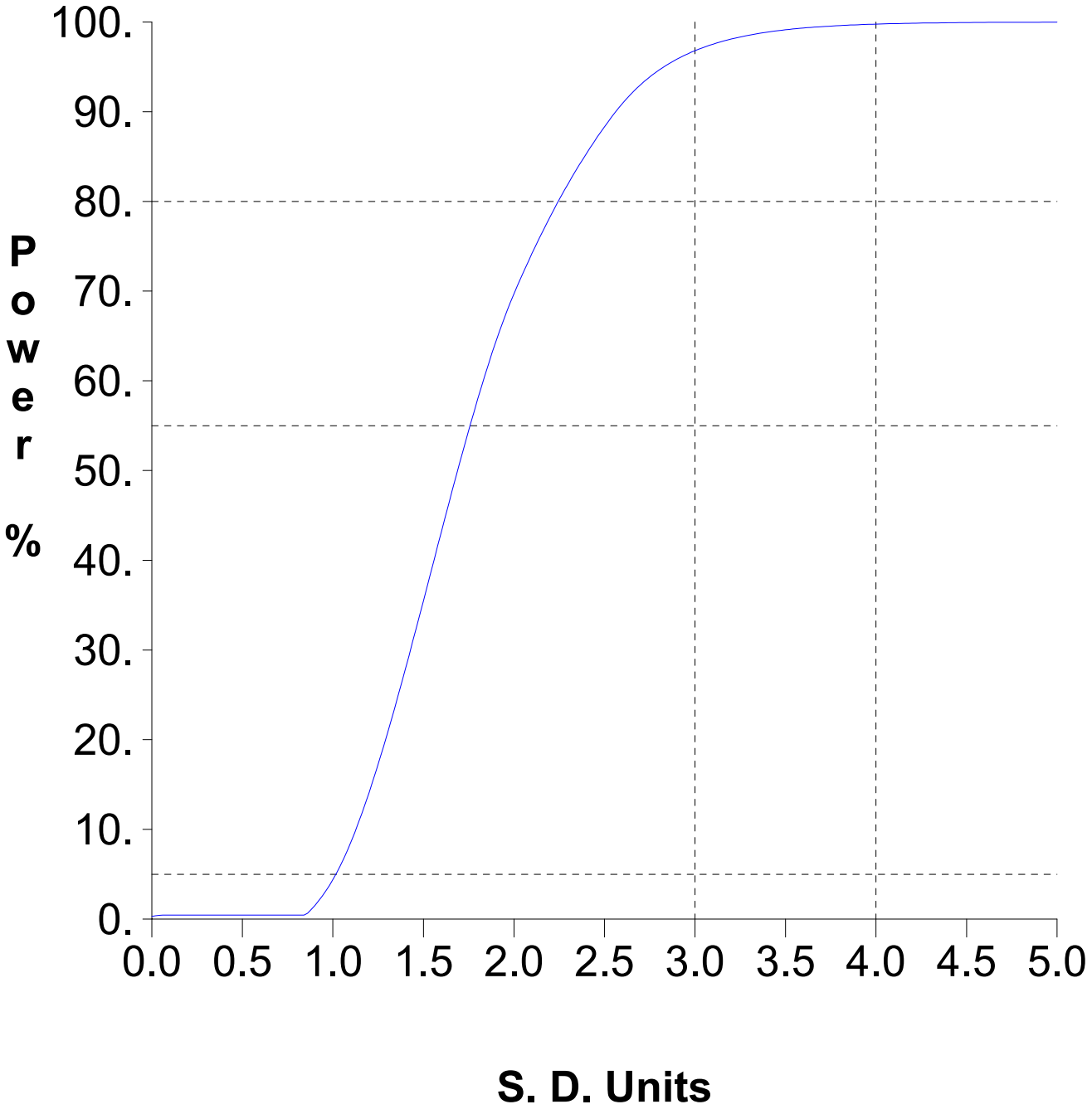



Graph 150

Prepared by: Otter Creek Environmental

# False Positive and False Negative Rates for Current

## Upgradient vs. Downgradient Monitoring Program



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

| Step | Equation | Description |
|---|---|---|
| 1 | PL = median(X)<br>= **6.0** | 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
## Arsenic, Total (ug/L)
## Nonparametric Prediction Limit

| Step | Equation | Description |
|---|---|---|
| 1 | PL = median(X)<br>= **10.0** | 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
## Barium, Total (ug/L)
## Nonparametric Prediction Limit

| Step | Equation | Description |
|---|---|---|
| 1 | PL = max(X)<br>= **451.0** | 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

| Step | Equation | Description |
|---|---|---|
| 1 | PL = median(X)<br>= **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

| Step | Equation | Description |
|---|---|---|
| 1 | PL = median(X)<br>= **5.0** | Compute nonparametric prediction limit as median reporting limit in background. |
| 2 | Conf = **0.99** | Confidence level is based on N, K and resampling strategy (see Gibbons 1994). |

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

| Step | Equation | Description |
|---|---|---|
| 1 | PL = max(X)<br>= **13.0** | 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
## Cobalt, Total (ug/L)
## Nonparametric Prediction Limit

| Step | Equation | Description |
|---|---|---|
| 1 | PL = max(X)<br>= **11.0** | 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

| Step | Equation | Description |
|---|---|---|
| 1 | PL = max(X)<br>= **15.0** | 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
## Lead, Total (ug/L)
## Nonparametric Prediction Limit

| Step | Equation | Description |
|---|---|---|
| 1 | PL = median(X)<br>= **10.0** | 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
## Nickel, Total (ug/L)
## Nonparametric Prediction Limit

| Step | Equation | Description |
|---|---|---|
| 1 | PL = max(X)<br>= **21.0** | 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
## Selenium, Total (ug/L)
## Nonparametric Prediction Limit

| Step | Equation | Description |
|---|---|---|
| 1 | PL = max(X)<br>= **25.0** | 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

| Step | Equation | Description |
|---|---|---|
| 1 | PL = median(X)<br>= **10.0** | 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

| Step | Equation | Description |
|---|---|---|
| 1 | PL = median(X)<br>= **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

| Step | Equation | Description |
|---|---|---|
| 1 | PL = max(X)<br>= **33.0** | 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
## Zinc, Total (ug/L)
## Nonparametric Prediction Limit

| Step | Equation | Description |
|---|---|---|
| 1 | PL = max(X)<br>= **32.0** | 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**

95% LCLs for Verified Trace Metal Exceedances

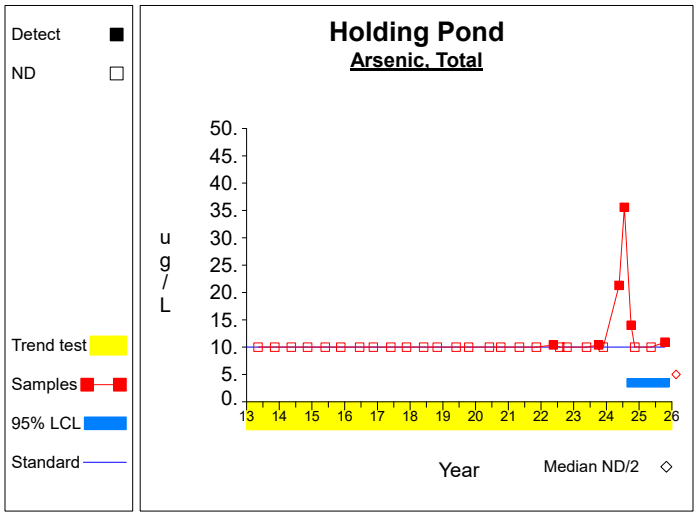
## Table 1

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

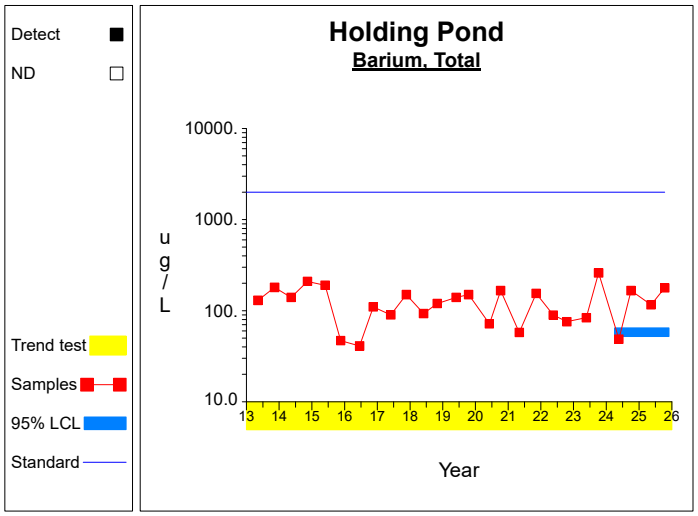
| Constituent | Units | Well | N | Mean | SD | Factor | 95% LCL | 95% UCL | Standard | Trend | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic, Total | ug/L | Holding Pond | 4 | 8.725 | 4.484 | 1.176 | 3.451 | 13.999 | 10.000 | | |
| Barium, Total | ug/L | Holding Pond | 4 | 127.175 | 58.804 | 1.176 | 58.004 | 196.346 | 2000.000 | | |
| Cobalt, Total | ug/L | Holding Pond | 4 | 2.233 | 2.365 | 1.176 | 0.000 | 5.014 | 2.100 | | |
| Nickel, Total | ug/L | Holding Pond | 4 | 26.375 | 10.137 | 1.176 | 14.451 | 38.299 | 100.000 | | |
| Arsenic, Total | ug/L | MW-12A | 4 | 5.000 | 0.000 | 1.176 | 5.000 | 5.000 | 10.000 | | |
| Barium, Total | ug/L | MW-12A | 4 | 294.500 | 34.501 | 1.176 | 253.917 | 335.083 | 2000.000 | inc | |
| Cobalt, Total | ug/L | MW-12A | 4 | 3.038 | 1.316 | 1.176 | 1.489 | 4.586 | 2.100 | | |
| Nickel, Total | ug/L | MW-12A | 4 | 12.025 | 4.770 | 1.176 | 6.415 | 17.635 | 100.000 | | |
| Arsenic, Total | ug/L | MW-13A | 4 | 5.000 | 0.000 | 1.176 | 5.000 | 5.000 | 10.000 | | |
| Barium, Total | ug/L | MW-13A | 4 | 420.000 | 22.993 | 1.176 | 392.954 | 447.046 | 2000.000 | inc | |
| Cobalt, Total | ug/L | MW-13A | 4 | 3.635 | 1.578 | 1.176 | 1.778 | 5.492 | 2.100 | | |
| Nickel, Total | ug/L | MW-13A | 4 | 5.000 | 0.000 | 1.176 | 5.000 | 5.000 | 100.000 | | |
| Arsenic, Total | ug/L | MW-19A | 4 | 5.000 | 0.000 | 1.176 | 5.000 | 5.000 | 10.000 | | |
| Barium, Total | ug/L | MW-19A | 4 | 177.500 | 25.106 | 1.176 | 147.968 | 207.032 | 2000.000 | | |
| Cobalt, Total | ug/L | MW-19A | 4 | 1.400 | 0.000 | 1.176 | 1.400 | 1.400 | 2.100 | | |
| Nickel, Total | ug/L | MW-19A | 4 | 30.825 | 6.396 | 1.176 | 23.302 | 38.348 | 100.000 | inc | |
| Arsenic, Total | ug/L | MW-23A | 4 | 10.700 | 4.146 | 1.176 | 5.823 | 15.577 | 10.000 | | |
| Barium, Total | ug/L | MW-23A | 4 | 1565.000 | 365.194 | 1.176 | 1135.426 | 1994.574 | 2000.000 | inc | |
| Cobalt, Total | ug/L | MW-23A | 4 | 8.245 | 4.937 | 1.176 | 2.437 | 14.053 | 2.100 | | ** |
| Nickel, Total | ug/L | MW-23A | 4 | 10.525 | 6.686 | 1.176 | 2.660 | 18.390 | 100.000 | | |
| Arsenic, Total | ug/L | MW-37A | 4 | 54.000 | 7.264 | 1.176 | 45.455 | 62.545 | 10.000 | inc | ** |
| Barium, Total | ug/L | MW-37A | 4 | 1282.500 | 112.657 | 1.176 | 1149.983 | 1415.017 | 2000.000 | inc | |
| Cobalt, Total | ug/L | MW-37A | 4 | 21.625 | 2.425 | 1.176 | 18.772 | 24.478 | 2.100 | inc | ** |
| Nickel, Total | ug/L | MW-37A | 4 | 251.500 | 48.720 | 1.176 | 194.191 | 308.809 | 100.000 | inc | ** |
| Arsenic, Total | ug/L | MW-38A | 4 | 5.000 | 0.000 | 1.176 | 5.000 | 5.000 | 10.000 | | |
| Barium, Total | ug/L | MW-38A | 4 | 224.000 | 24.658 | 1.176 | 194.995 | 253.005 | 2000.000 | inc | |
| Cobalt, Total | ug/L | MW-38A | 4 | 1.568 | 0.335 | 1.176 | 1.173 | 1.962 | 2.100 | | |
| Nickel, Total | ug/L | MW-38A | 4 | 33.475 | 3.751 | 1.176 | 29.063 | 37.887 | 100.000 | | |

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

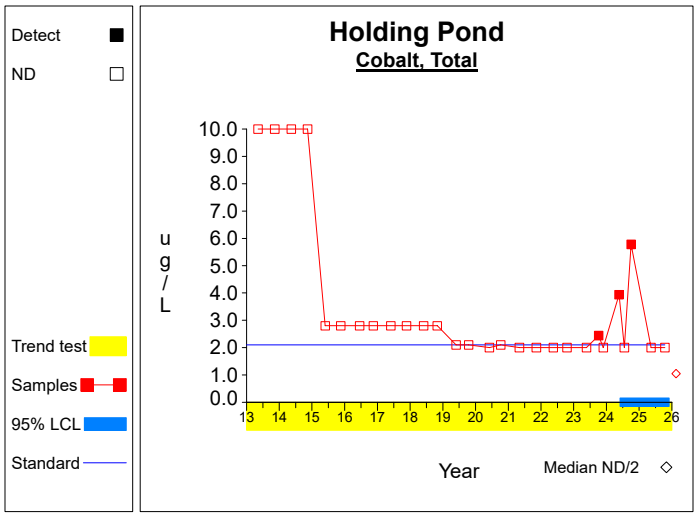
# Confidence Limits (Assessment)



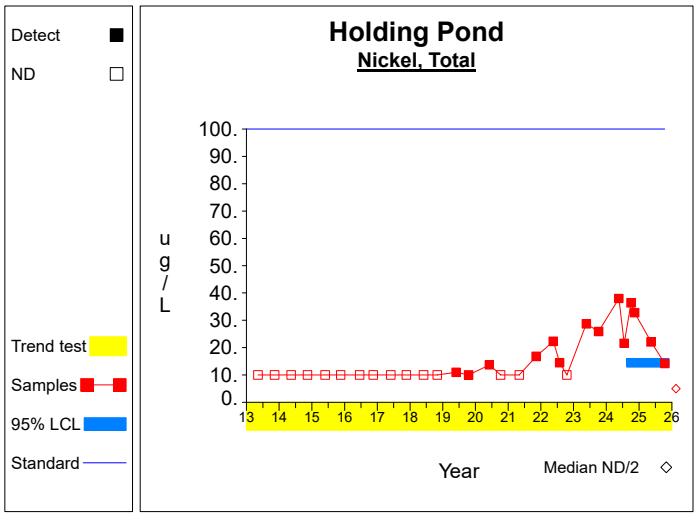

Graph 1




Graph 2

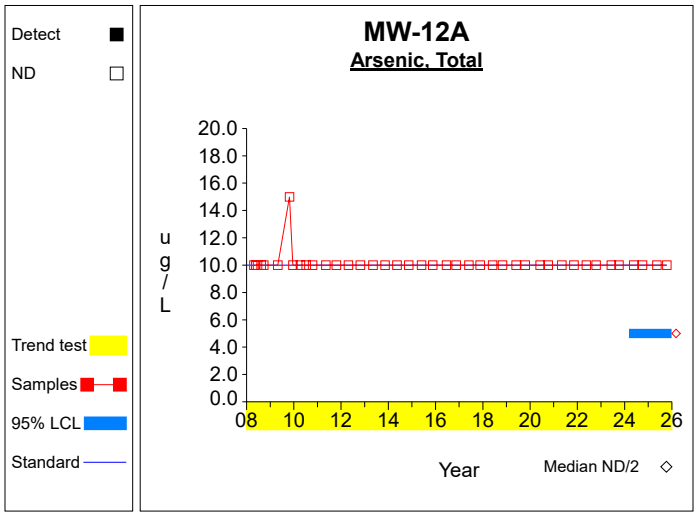



Graph 3

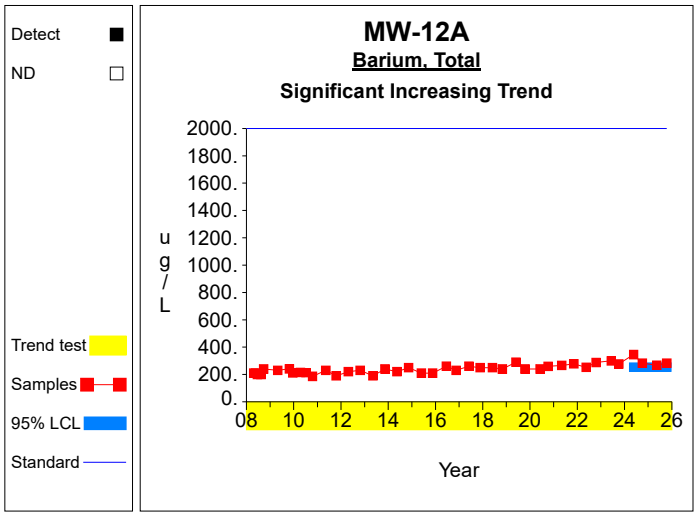



Graph 4

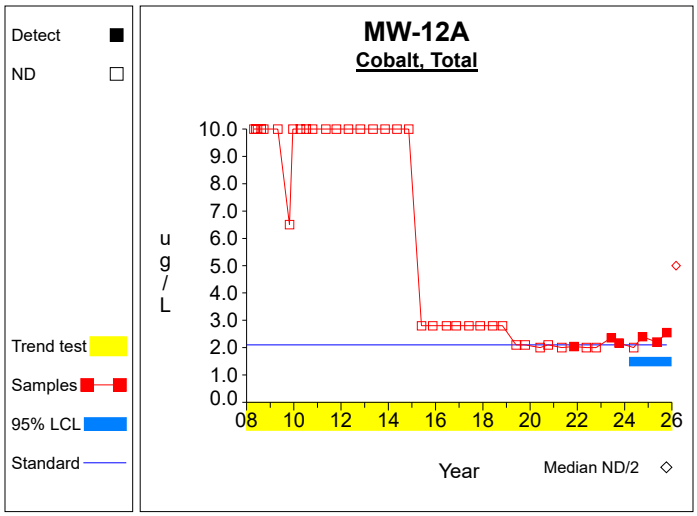
# Confidence Limits (Assessment)



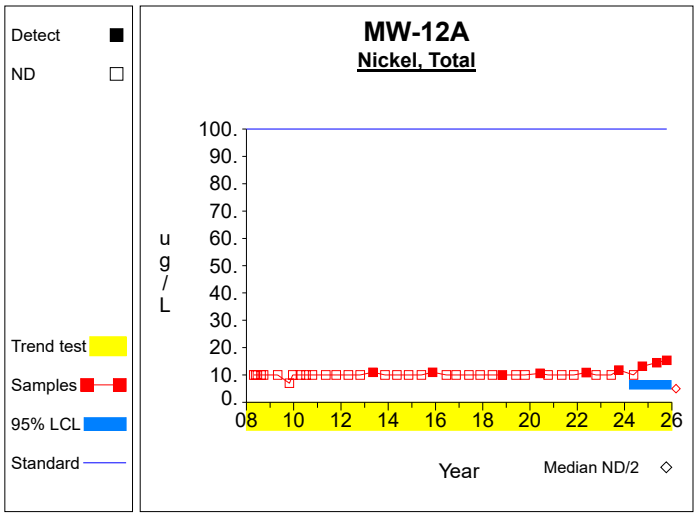

Graph 5




Graph 6

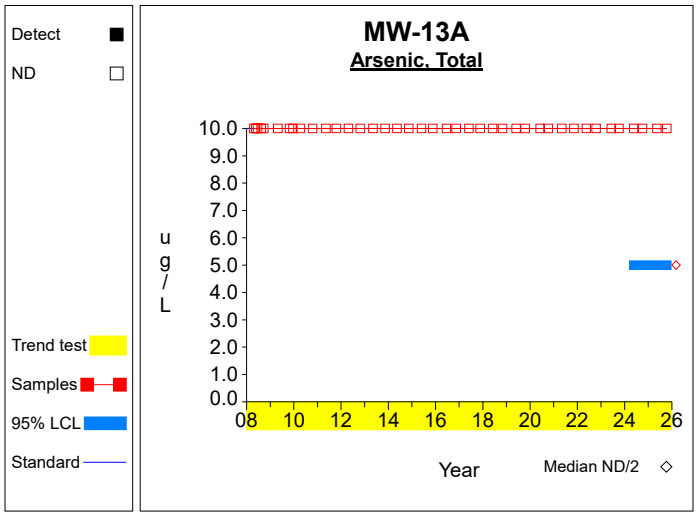



Graph 7

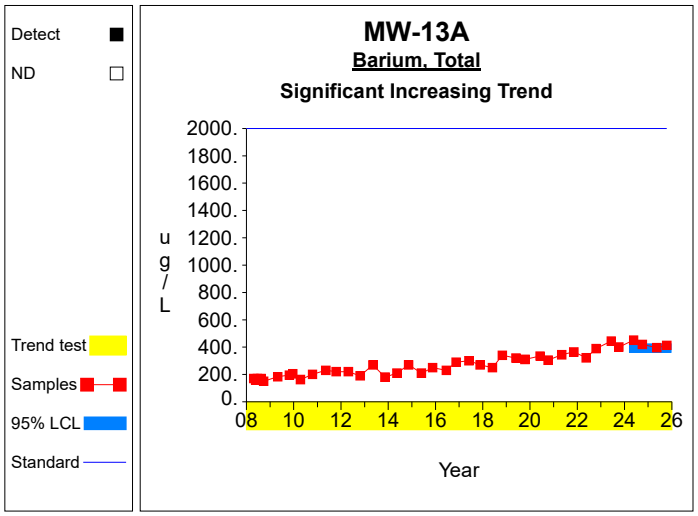



Graph 8

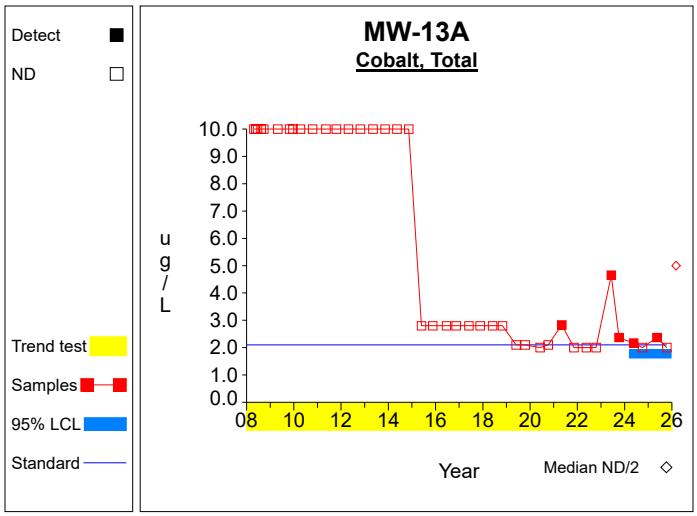
# Confidence Limits (Assessment)



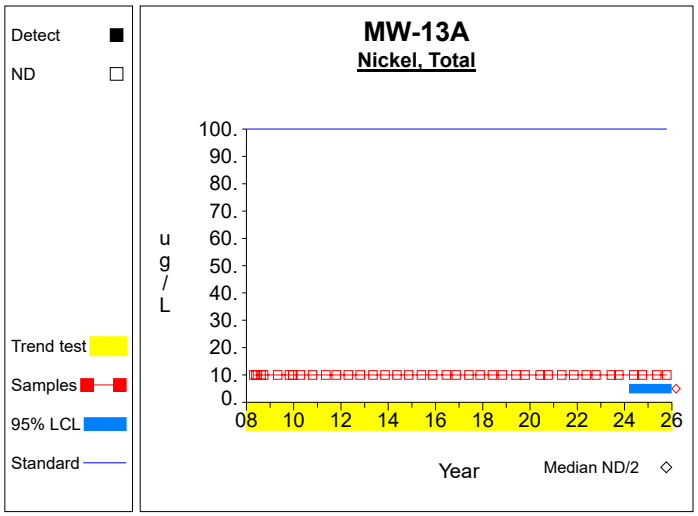

Graph 9




Graph 10

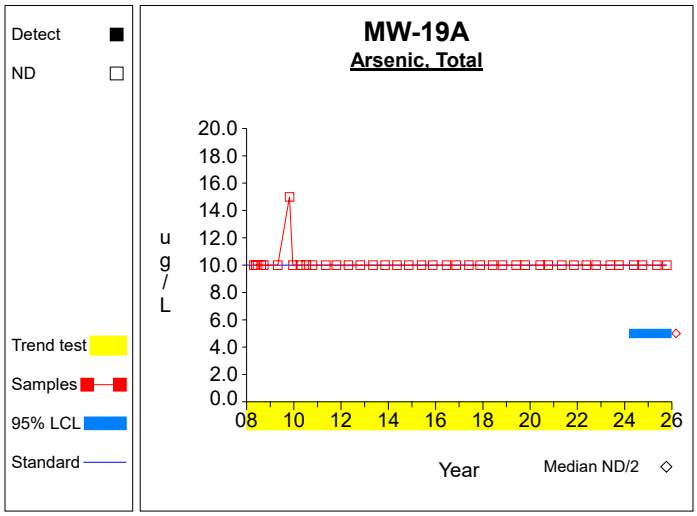



Graph 11

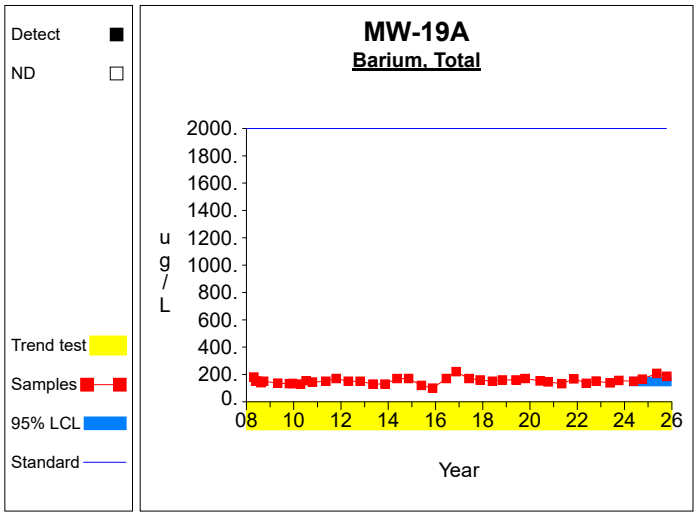



Graph 12

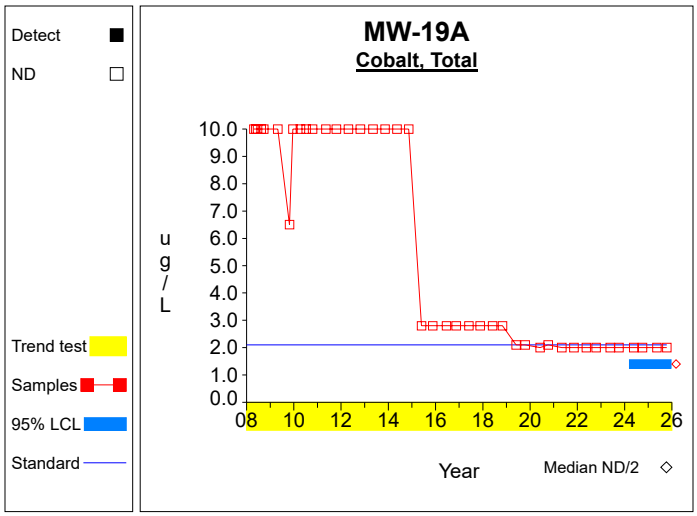
# Confidence Limits (Assessment)



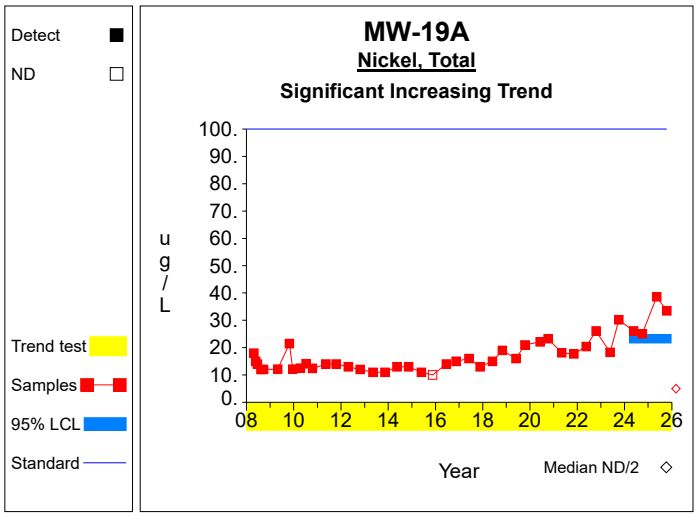

Graph 13




Graph 14

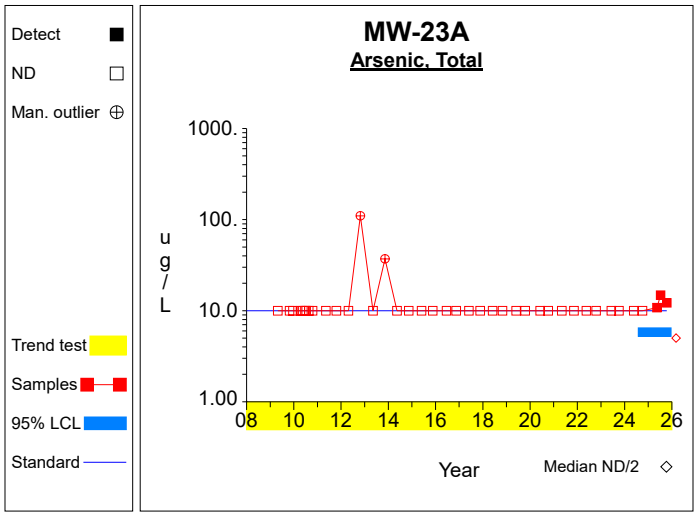



Graph 15

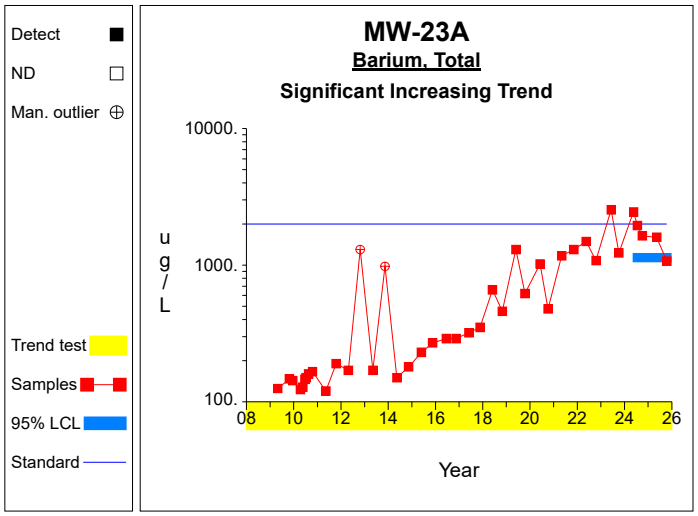



Graph 16

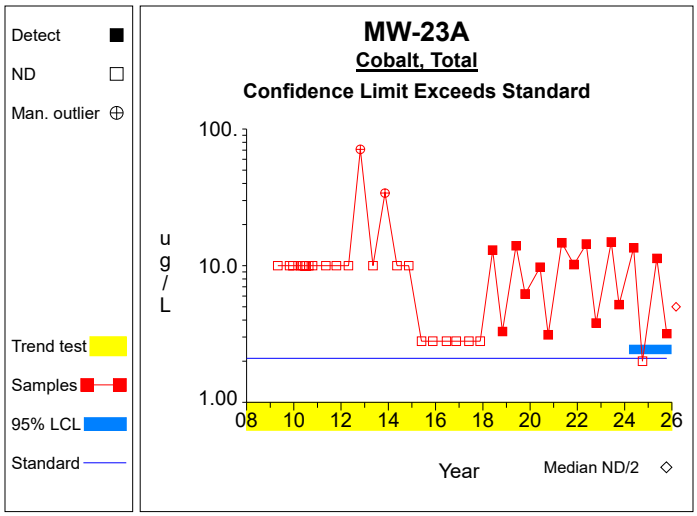
# Confidence Limits (Assessment)



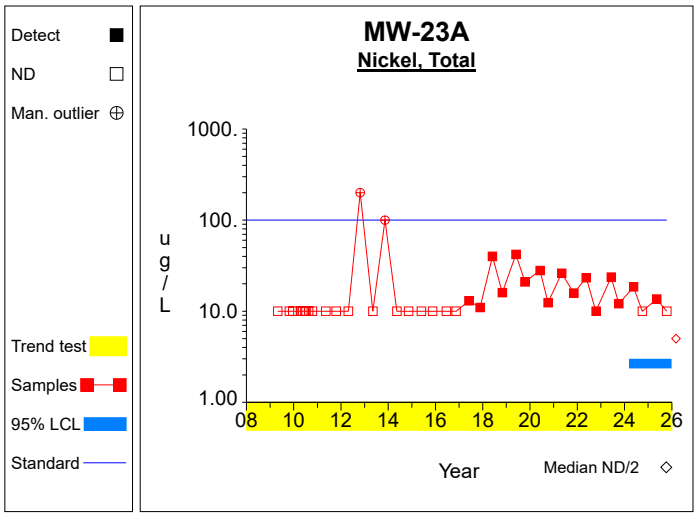

Graph 17




Graph 18

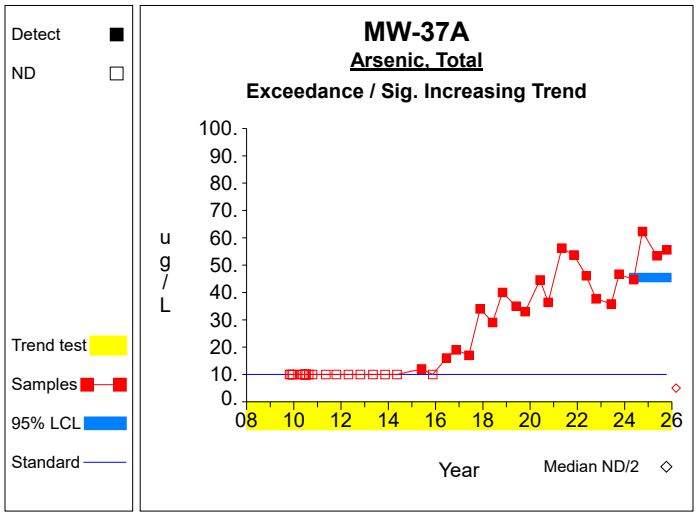



Graph 19

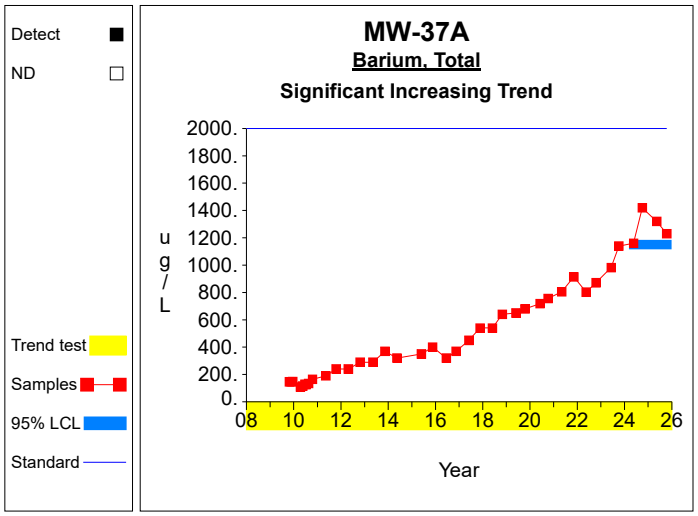



Graph 20

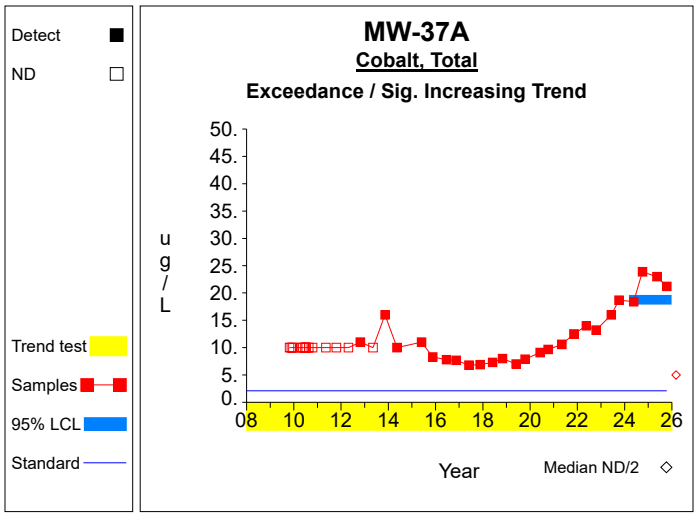
# Confidence Limits (Assessment)



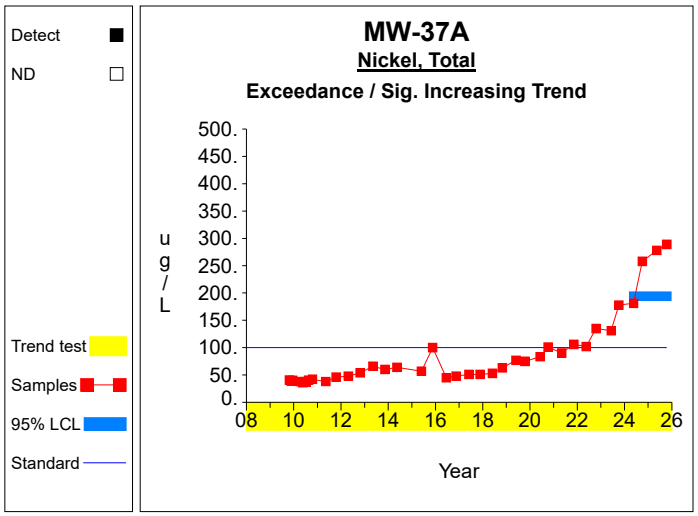

Graph 21




Graph 22

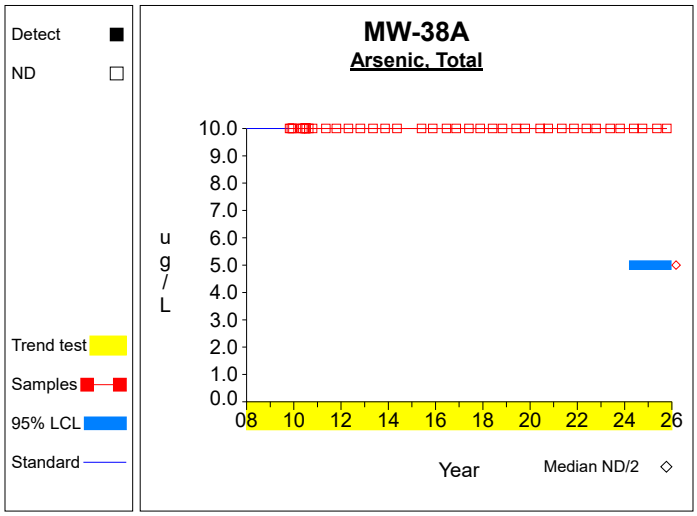



Graph 23

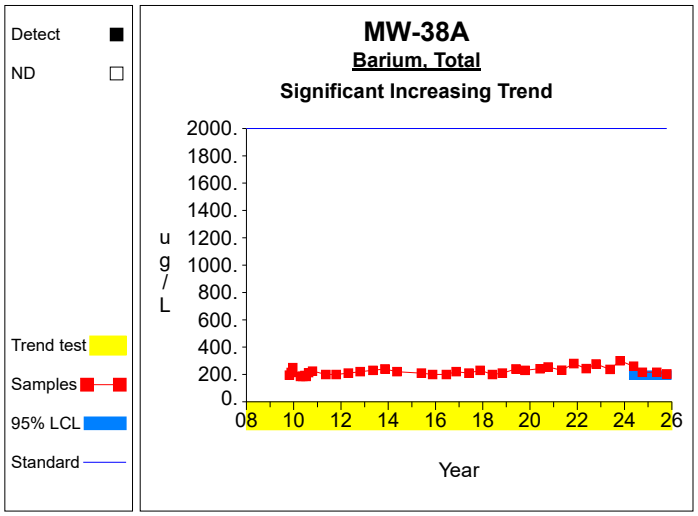



Graph 24

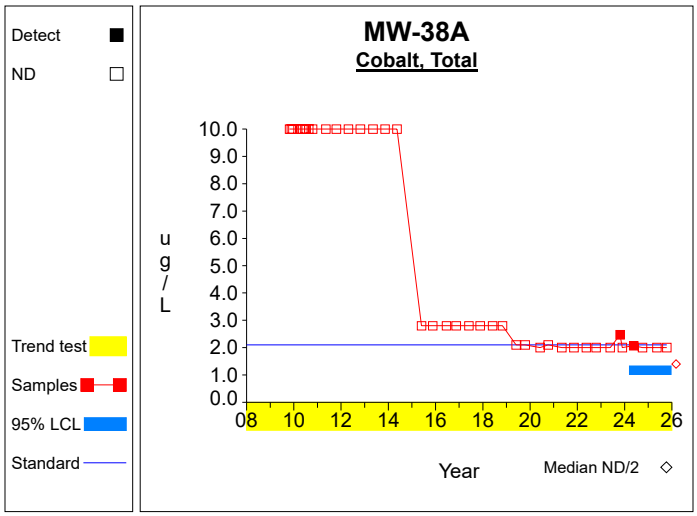
# Confidence Limits (Assessment)



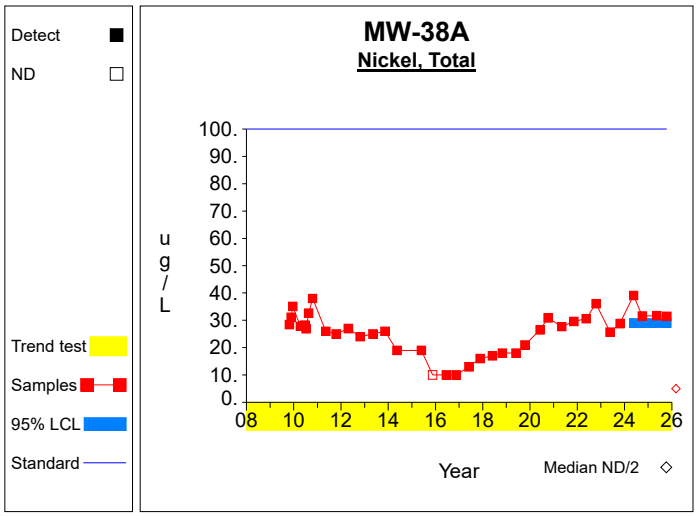

Graph 25




Graph 26




Graph 27




Graph 28

## Worksheet 6 - Assessment Monitoring
## Arsenic, Total (ug/L) at Holding Pond

| Step | Equation | Description |
|---|---|---|
| 1 | $\overline{X}$ = **sum[X]** / **N**<br>= **34.9** / **4**<br>= **8.725** | Compute the mean of the last 4 measurements. |
| 2 | S = ( (**sum[X$^2$]** - **sum[X]**$^2$/**N**) / (**N**-1) )$^{½}$<br>= ( (**364.81** - **1218.01**/**4**) / (**4**-1) )$^{½}$<br>= **4.484** | Compute sd of the last 4 measurements. |
| 3 | LCL = $\overline{\mathbf{X}}$ - **tS**/**N**$^{½}$<br>= **8.725** - **2.353** * **4.484**/**4**$^{½}$<br>= **3.451** | Compute lower confidence limit for the mean of the last 4 measurements. |
| 4 | UCL = $\overline{\mathbf{X}}$ + **tS**/**N**$^{½}$<br>= **8.725** + **2.353** * **4.484**/**4**$^{½}$<br>= **13.999** | Compute upper confidence limit for the mean of the last 4 measurements. |
| 5 | N' = **N** * (**N**-1) / 2<br>= **30** * (**30**-1) / 2<br>= **435** | Number of sample pairs during trend detection period. |
| 6 | S = **0.0** | Sen's estimator of trend. |
| 7 | var(S) = **1515.333** | Variance estimate for slope. |
| 8 | M(S) = (**N**' ± **Z**$_{.995}$ * **var(S)**$^{½}$) / 2<br>= (**435** ± **2.576** * **1515.333**$^{½}$) / 2<br>= [ **167.362**, **267.638** ] | 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
## Barium, Total (ug/L) at Holding Pond

| Step | Equation | Description |
|---|---|---|
| 1 | $\overline{X}$ = **sum[X]** / **N**<br>= **508.7** / **4**<br>= **127.175** | Compute the mean of the last 4 measurements. |
| 2 | S = ( (**sum[X$^2$]** - **sum[X]**$^2$/**N**) / (**N**-1) )$^{½}$<br>= ( (**75067.69** - **258775.69**/**4**) / (**4**-1) )$^{½}$<br>= **58.804** | Compute sd of the last 4 measurements. |
| 3 | LCL = $\overline{\mathbf{X}}$ - **tS**/**N**$^{½}$<br>= **127.175** - **2.353** * **58.804**/**4**$^{½}$<br>= **58.004** | Compute lower confidence limit for the mean of the last 4 measurements. |
| 4 | UCL = $\overline{\mathbf{X}}$ + **tS**/**N**$^{½}$<br>= **127.175** + **2.353** * **58.804**/**4**$^{½}$<br>= **196.346** | Compute upper confidence limit for the mean of the last 4 measurements. |
| 5 | N' = **N** * (**N**-1) / 2<br>= **26** * (**26**-1) / 2<br>= **325** | Number of sample pairs during trend detection period. |
| 6 | S = **-0.613** | Sen's estimator of trend. |
| 7 | var(S) = **2055.333** | Variance estimate for slope. |
| 8 | M(S) = (**N'** ± **Z**$_{.995}$ * **var(S)**$^{½}$) / 2<br>= (**325** ± **2.576** * **2055.333**$^{½}$) / 2<br>= [ **104.108**, **220.892** ] | 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) = [ **-10.108**, **8.326** ] | 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 Holding Pond

| Step | Equation | Description |
|---|---|---|
| 1 | $\overline{X}$ = **sum[X]** / **N**<br>= **8.93** / **4**<br>= **2.233** | Compute the mean of the last 4 measurements. |
| 2 | S = ( (**sum[X$^2$]** - **sum[X]**$^2$/**N**) / (**N**-1) )$^{½}$<br>= ( (**36.716** - **79.745**/**4**) / (**4**-1) )$^{½}$<br>= **2.365** | Compute sd of the last 4 measurements. |
| 3 | LCL = $\overline{\mathbf{X}}$ - **tS**/**N**$^{½}$<br>= **2.233** - **2.353** * **2.365**/**4**$^{½}$<br>= **0.0** | Compute lower confidence limit for the mean of the last 4 measurements. |
| 4 | UCL = $\overline{\mathbf{X}}$ + **tS**/**N**$^{½}$<br>= **2.233** + **2.353** * **2.365**/**4**$^{½}$<br>= **5.014** | Compute upper confidence limit for the mean of the last 4 measurements. |
| 5 | N' = **N** * (**N**-1) / 2<br>= **28** * (**28**-1) / 2<br>= **378** | Number of sample pairs during trend detection period. |
| 6 | S = **0.0** | Sen's estimator of trend. |
| 7 | var(S) = **728.667** | Variance estimate for slope. |
| 8 | M(S) = (**N'** ± **Z**$_{.995}$ * **var(S)**$^{½}$) / 2<br>= (**378** ± **2.576** * **728.667**$^{½}$) / 2<br>= [ **154.232**, **223.768** ] | 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
## Nickel, Total (ug/L) at Holding Pond

| Step | Equation | Description |
|---|---|---|
| 1 | $\overline{X}$ = **sum[X]** / **N**<br>= **105.5** / **4**<br>= **26.375** | Compute the mean of the last 4 measurements. |
| 2 | S = ( (**sum[X$^2$]** - **sum[X]**$^2$/**N**) / (**N**-1) )$^{½}$<br>= ( (**3090.85** - **11130.25**/**4**) / (**4**-1) )$^{½}$<br>= **10.137** | Compute sd of the last 4 measurements. |
| 3 | LCL = $\overline{\mathbf{X}}$ - **tS**/**N**$^{½}$<br>= **26.375** - **2.353** * **10.137**/**4**$^{½}$<br>= **14.451** | Compute lower confidence limit for the mean of the last 4 measurements. |
| 4 | UCL = $\overline{\mathbf{X}}$ + **tS**/**N**$^{½}$<br>= **26.375** + **2.353** * **10.137**/**4**$^{½}$<br>= **38.299** | Compute upper confidence limit for the mean of the last 4 measurements. |
| 5 | N' = **N** * (**N**-1) / 2<br>= **29** * (**29**-1) / 2<br>= **406** | Number of sample pairs during trend detection period. |
| 6 | S = **1.717** | Sen's estimator of trend. |
| 7 | var(S) = **2433.667** | Variance estimate for slope. |
| 8 | M(S) = (**N'** ± **Z**$_{.995}$ * **var(S)**$^{½}$) / 2<br>= (**406** ± **2.576** * **2433.667**$^{½}$) / 2<br>= [ **139.46**, **266.54** ] | 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**, **2.74** ] | Two-sided confidence interval for slope. |
| 10 | the interval includes 0 | There is no significant trend. |

## Worksheet 6 - Assessment Monitoring
## Arsenic, Total (ug/L) at MW-12A

| Step | Equation | Description |
|---|---|---|
| 1 | $\overline{X}$ = **sum[X]** / **N**<br>= **20.0** / **4**<br>= **5.0** | Compute the mean of the last 4 measurements. |
| 2 | S = ( (**sum[X$^2$]** - **sum[X]**$^2$/**N**) / (**N**-1) )$^{½}$<br>= ( (**100.0** - **400.0**/**4**) / (**4**-1) )$^{½}$<br>= **0.0** | Compute sd of the last 4 measurements. |
| 3 | LCL = $\overline{\mathbf{X}}$ - **tS**/**N**$^{½}$<br>= **5.0** - **2.353** * **0.0**/**4**$^{½}$<br>= **5.0** | Compute lower confidence limit for the mean of the last 4 measurements. |
| 4 | UCL = $\overline{\mathbf{X}}$ + **tS**/**N**$^{½}$<br>= **5.0** + **2.353** * **0.0**/**4**$^{½}$<br>= **5.0** | Compute upper confidence limit for the mean of the last 4 measurements. |
| 5 | N' = **N** * (**N**-1) / 2<br>= **41** * (**41**-1) / 2<br>= **820** | Number of sample pairs during trend detection period. |
| 6 | S = **0.0** | Sen's estimator of trend. |
| 7 | var(S) = **0.0** | Variance estimate for slope. |
| 8 | M(S) = (**N'** ± **Z**$_{.995}$ * **var(S)**$^{½}$) / 2<br>= (**820** ± **2.576** * **0.0**$^{½}$) / 2<br>= [ **410.0**, **410.0** ] | 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
## Barium, Total (ug/L) at MW-12A

| Step | Equation | Description |
|---|---|---|
| 1 | $\overline{X}$ = **sum[X]** / **N**<br>= **1178.0** / **4**<br>= **294.5** | Compute the mean of the last 4 measurements. |
| 2 | S = ( (**sum[X$^2$]** - **sum[X]**$^2$/**N**) / (**N**-1) )$^{½}$<br>= ( (**350492.0** - **1.39**x**10$^6$**/**4**) / (**4**-1) )$^{½}$<br>= **34.501** | Compute sd of the last 4 measurements. |
| 3 | LCL = $\overline{\mathbf{X}}$ - **tS**/**N**$^{½}$<br>= **294.5** - **2.353** * **34.501**/**4**$^{½}$<br>= **253.917** | Compute lower confidence limit for the mean of the last 4 measurements. |
| 4 | UCL = $\overline{\mathbf{X}}$ + **tS**/**N**$^{½}$<br>= **294.5** + **2.353** * **34.501**/**4**$^{½}$<br>= **335.083** | Compute upper confidence limit for the mean of the last 4 measurements. |
| 5 | N' = **N** * (**N**-1) / 2<br>= **41** * (**41**-1) / 2<br>= **820** | Number of sample pairs during trend detection period. |
| 6 | S = **4.599** | Sen's estimator of trend. |
| 7 | var(S) = **7884.0** | Variance estimate for slope. |
| 8 | M(S) = (**N'** ± **Z**$_{.995}$ * **var(S)**$^{½}$) / 2<br>= (**820** ± **2.576** * **7884.0**$^{½}$) / 2<br>= [ **295.636**, **524.364** ] | 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) = [ **2.993**, **6.168** ] | Two-sided confidence interval for slope. |
| 10 | LCL(S) > 0 | **Significant increasing trend.** |

## Worksheet 6 - Assessment Monitoring
## Cobalt, Total (ug/L) at MW-12A

| Step | Equation | Description |
|---|---|---|
| 1 | $\overline{X}$ = **sum[X]** / **N**<br>= **12.15** / **4**<br>= **3.038** | Compute the mean of the last 4 measurements. |
| 2 | S = ( (**sum[X$^2$]** - **sum[X]**$^2$/**N**) / (**N**-1) )$^{½}$<br>= ( (**42.103** - **147.623**/**4**) / (**4**-1) )$^{½}$<br>= **1.316** | Compute sd of the last 4 measurements. |
| 3 | LCL = $\overline{\mathbf{X}}$ - **tS**/**N**$^{½}$<br>= **3.038** - **2.353** * **1.316**/**4**$^{½}$<br>= **1.489** | Compute lower confidence limit for the mean of the last 4 measurements. |
| 4 | UCL = $\overline{\mathbf{X}}$ + **tS**/**N**$^{½}$<br>= **3.038** + **2.353** * **1.316**/**4**$^{½}$<br>= **4.586** | Compute upper confidence limit for the mean of the last 4 measurements. |
| 5 | N' = **N** * (**N**-1) / 2<br>= **41** * (**41**-1) / 2<br>= **820** | Number of sample pairs during trend detection period. |
| 6 | S = **0.0** | Sen's estimator of trend. |
| 7 | var(S) = **2968.333** | Variance estimate for slope. |
| 8 | M(S) = (**N'** ± **Z**$_{.995}$ * **var(S)**$^{½}$) / 2<br>= (**820** ± **2.576** * **2968.333**$^{½}$) / 2<br>= [ **339.827**, **480.173** ] | 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
## Nickel, Total (ug/L) at MW-12A

| Step | Equation | Description |
|---|---|---|
| 1 | $\overline{X}$ = **sum[X]** / **N**<br>= **48.1** / **4**<br>= **12.025** | Compute the mean of the last 4 measurements. |
| 2 | S = ( (**sum[X$^2$]** - **sum[X]**$^2$/**N**) / (**N**-1) )$^{½}$<br>= ( (**646.65** - **2313.61**/**4**) / (**4**-1) )$^{½}$<br>= **4.77** | Compute sd of the last 4 measurements. |
| 3 | LCL = $\overline{\mathbf{X}}$ - **tS**/**N**$^{½}$<br>= **12.025** - **2.353** * **4.77**/**4**$^{½}$<br>= **6.415** | Compute lower confidence limit for the mean of the last 4 measurements. |
| 4 | UCL = $\overline{\mathbf{X}}$ + **tS**/**N**$^{½}$<br>= **12.025** + **2.353** * **4.77**/**4**$^{½}$<br>= **17.635** | Compute upper confidence limit for the mean of the last 4 measurements. |
| 5 | N' = **N** * (**N**-1) / 2<br>= **41** * (**41**-1) / 2<br>= **820** | Number of sample pairs during trend detection period. |
| 6 | S = **0.0** | Sen's estimator of trend. |
| 7 | var(S) = **4123.0** | Variance estimate for slope. |
| 8 | M(S) = (**N'** ± **Z**$_{.995}$ * **var(S)**$^{½}$) / 2<br>= (**820** ± **2.576** * **4123.0**$^{½}$) / 2<br>= [ **327.297**, **492.703** ] | 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
## Arsenic, Total (ug/L) at MW-13A

| Step | Equation | Description |
|---|---|---|
| 1 | $\overline{X}$ = **sum[X]** / **N**<br>= **20.0** / **4**<br>= **5.0** | Compute the mean of the last 4 measurements. |
| 2 | S = ( (**sum[X$^2$]** - **sum[X]**$^2$/**N**) / (**N**-1) )$^{½}$<br>= ( (**100.0** - **400.0**/**4**) / (**4**-1) )$^{½}$<br>= **0.0** | Compute sd of the last 4 measurements. |
| 3 | LCL = $\overline{\mathbf{X}}$ - **tS**/**N**$^{½}$<br>= **5.0** - **2.353** * **0.0**/**4**$^{½}$<br>= **5.0** | Compute lower confidence limit for the mean of the last 4 measurements. |
| 4 | UCL = $\overline{\mathbf{X}}$ + **tS**/**N**$^{½}$<br>= **5.0** + **2.353** * **0.0**/**4**$^{½}$<br>= **5.0** | Compute upper confidence limit for the mean of the last 4 measurements. |
| 5 | N' = **N** * (**N**-1) / 2<br>= **40** * (**40**-1) / 2<br>= **780** | Number of sample pairs during trend detection period. |
| 6 | S = **0.0** | Sen's estimator of trend. |
| 7 | var(S) = **0.0** | Variance estimate for slope. |
| 8 | M(S) = (**N'** ± **Z**$_{.995}$ * **var(S)**$^{½}$) / 2<br>= (**780** ± **2.576** * **0.0**$^{½}$) / 2<br>= [ **390.0**, **390.0** ] | 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
## Barium, Total (ug/L) at MW-13A

| Step | Equation | Description |
|---|---|---|
| 1 | $\overline{X}$ = **sum[X]** / **N**<br>= **1680.0** / **4**<br>= **420.0** | Compute the mean of the last 4 measurements. |
| 2 | S = ( (**sum[X$^2$]** - **sum[X]**$^2$/**N**) / (**N**-1) )$^{½}$<br>= ( (**707186.0** - **2.82**x**10$^6$**/**4**) / (**4**-1) )$^{½}$<br>= **22.993** | Compute sd of the last 4 measurements. |
| 3 | LCL = $\overline{\mathbf{X}}$ - **tS**/**N**$^{½}$<br>= **420.0** - **2.353** * **22.993**/**4**$^{½}$<br>= **392.954** | Compute lower confidence limit for the mean of the last 4 measurements. |
| 4 | UCL = $\overline{\mathbf{X}}$ + **tS**/**N**$^{½}$<br>= **420.0** + **2.353** * **22.993**/**4**$^{½}$<br>= **447.046** | Compute upper confidence limit for the mean of the last 4 measurements. |
| 5 | N' = **N** * (**N**-1) / 2<br>= **40** * (**40**-1) / 2<br>= **780** | Number of sample pairs during trend detection period. |
| 6 | S = **14.659** | Sen's estimator of trend. |
| 7 | var(S) = **7355.333** | Variance estimate for slope. |
| 8 | M(S) = (**N'** ± **Z**$_{.995}$ * **var(S)**$^{½}$) / 2<br>= (**780** ± **2.576** * **7355.333**$^{½}$) / 2<br>= [ **279.537**, **500.463** ] | 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) = [ **12.529**, **17.21** ] | Two-sided confidence interval for slope. |
| 10 | LCL(S) > 0 | **Significant increasing trend.** |

## Worksheet 6 - Assessment Monitoring
## Cobalt, Total (ug/L) at MW-13A

| Step | Equation | Description |
|---|---|---|
| 1 | $\overline{X}$ = **sum[X]** / **N**<br>= **14.54** / **4**<br>= **3.635** | Compute the mean of the last 4 measurements. |
| 2 | S = ( (**sum[X$^2$]** - **sum[X]**$^2$/**N**) / (**N**-1) )$^{½}$<br>= ( (**60.326** - **211.412**/**4**) / (**4**-1) )$^{½}$<br>= **1.578** | Compute sd of the last 4 measurements. |
| 3 | LCL = $\overline{\mathbf{X}}$ - **tS**/**N**$^{½}$<br>= **3.635** - **2.353** * **1.578**/**4**$^{½}$<br>= **1.778** | Compute lower confidence limit for the mean of the last 4 measurements. |
| 4 | UCL = $\overline{\mathbf{X}}$ + **tS**/**N**$^{½}$<br>= **3.635** + **2.353** * **1.578**/**4**$^{½}$<br>= **5.492** | Compute upper confidence limit for the mean of the last 4 measurements. |
| 5 | N' = **N** * (**N**-1) / 2<br>= **40** * (**40**-1) / 2<br>= **780** | Number of sample pairs during trend detection period. |
| 6 | S = **0.0** | Sen's estimator of trend. |
| 7 | var(S) = **2407.333** | Variance estimate for slope. |
| 8 | M(S) = (**N'** ± **Z**$_{.995}$ * **var(S)**$^{½}$) / 2<br>= (**780** ± **2.576** * **2407.333**$^{½}$) / 2<br>= [ **326.805**, **453.195** ] | 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
## Nickel, Total (ug/L) at MW-13A

| Step | Equation | Description |
|---|---|---|
| 1 | $\overline{X}$ = **sum[X]** / **N**<br>= **20.0** / **4**<br>= **5.0** | Compute the mean of the last 4 measurements. |
| 2 | S = ( (**sum[X$^2$]** - **sum[X]**$^2$/**N**) / (**N**-1) )$^{½}$<br>= ( (**100.0** - **400.0**/**4**) / (**4**-1) )$^{½}$<br>= **0.0** | Compute sd of the last 4 measurements. |
| 3 | LCL = $\overline{\mathbf{X}}$ - **tS**/**N**$^{½}$<br>= **5.0** - **2.353** * **0.0**/**4**$^{½}$<br>= **5.0** | Compute lower confidence limit for the mean of the last 4 measurements. |
| 4 | UCL = $\overline{\mathbf{X}}$ + **tS**/**N**$^{½}$<br>= **5.0** + **2.353** * **0.0**/**4**$^{½}$<br>= **5.0** | Compute upper confidence limit for the mean of the last 4 measurements. |
| 5 | N' = **N** * (**N**-1) / 2<br>= **40** * (**40**-1) / 2<br>= **780** | Number of sample pairs during trend detection period. |
| 6 | S = **0.0** | Sen's estimator of trend. |
| 7 | var(S) = **0.0** | Variance estimate for slope. |
| 8 | M(S) = (**N'** ± **Z**$_{.995}$ * **var(S)**$^{½}$) / 2<br>= (**780** ± **2.576** * **0.0**$^{½}$) / 2<br>= [ **390.0**, **390.0** ] | 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
## Arsenic, Total (ug/L) at MW-19A

| Step | Equation | Description |
|---|---|---|
| 1 | $\overline{X}$ = **sum[X]** / **N**<br>= **20.0** / **4**<br>= **5.0** | Compute the mean of the last 4 measurements. |
| 2 | S = ( (**sum[X$^2$]** - **sum[X]**$^2$/**N**) / (**N**-1) )$^{½}$<br>= ( (**100.0** - **400.0**/**4**) / (**4**-1) )$^{½}$<br>= **0.0** | Compute sd of the last 4 measurements. |
| 3 | LCL = $\overline{\mathbf{X}}$ - **tS**/**N**$^{½}$<br>= **5.0** - **2.353** * **0.0**/**4**$^{½}$<br>= **5.0** | Compute lower confidence limit for the mean of the last 4 measurements. |
| 4 | UCL = $\overline{\mathbf{X}}$ + **tS**/**N**$^{½}$<br>= **5.0** + **2.353** * **0.0**/**4**$^{½}$<br>= **5.0** | Compute upper confidence limit for the mean of the last 4 measurements. |
| 5 | N' = **N** * (**N**-1) / 2<br>= **41** * (**41**-1) / 2<br>= **820** | Number of sample pairs during trend detection period. |
| 6 | S = **0.0** | Sen's estimator of trend. |
| 7 | var(S) = **0.0** | Variance estimate for slope. |
| 8 | M(S) = (**N'** ± **Z**$_{.995}$ * **var(S)**$^{½}$) / 2<br>= (**820** ± **2.576** * **0.0**$^{½}$) / 2<br>= [ **410.0**, **410.0** ] | 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
## Barium, Total (ug/L) at MW-19A

| Step | Equation | Description |
|---|---|---|
| 1 | $\overline{X}$ = **sum[X]** / **N**<br>= **710.0** / **4**<br>= **177.5** | Compute the mean of the last 4 measurements. |
| 2 | S = ( (**sum[X$^2$]** - **sum[X]**$^2$/**N**) / (**N**-1) )$^{½}$<br>= ( (**127916.0** - **504100.0**/**4**) / (**4**-1) )$^{½}$<br>= **25.106** | Compute sd of the last 4 measurements. |
| 3 | LCL = $\overline{\mathbf{X}}$ - **tS**/**N**$^{½}$<br>= **177.5** - **2.353** * **25.106**/**4**$^{½}$<br>= **147.968** | Compute lower confidence limit for the mean of the last 4 measurements. |
| 4 | UCL = $\overline{\mathbf{X}}$ + **tS**/**N**$^{½}$<br>= **177.5** + **2.353** * **25.106**/**4**$^{½}$<br>= **207.032** | Compute upper confidence limit for the mean of the last 4 measurements. |
| 5 | N' = **N** * (**N**-1) / 2<br>= **41** * (**41**-1) / 2<br>= **820** | Number of sample pairs during trend detection period. |
| 6 | S = **0.781** | Sen's estimator of trend. |
| 7 | var(S) = **7827.333** | Variance estimate for slope. |
| 8 | M(S) = (**N'** ± **Z**$_{.995}$ * **var(S)**$^{½}$) / 2<br>= (**820** ± **2.576** * **7827.333**$^{½}$) / 2<br>= [ **296.048**, **523.952** ] | 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) = [ **-0.502**, **2.304** ] | 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 MW-19A

| Step | Equation | Description |
|---|---|---|
| 1 | $\overline{X}$ = **sum[X]** / **N**<br>= **5.6** / **4**<br>= **1.4** | Compute the mean of the last 4 measurements. |
| 2 | S = ( (**sum[X$^2$]** - **sum[X]**$^2$/**N**) / (**N**-1) )$^{½}$<br>= ( (**7.84** - **31.36**/**4**) / (**4**-1) )$^{½}$<br>= **0.0** | Compute sd of the last 4 measurements. |
| 3 | LCL = $\overline{\mathbf{X}}$ - **tS**/**N**$^{½}$<br>= **1.4** - **2.353** * **0.0**/**4**$^{½}$<br>= **1.4** | Compute lower confidence limit for the mean of the last 4 measurements. |
| 4 | UCL = $\overline{\mathbf{X}}$ + **tS**/**N**$^{½}$<br>= **1.4** + **2.353** * **0.0**/**4**$^{½}$<br>= **1.4** | Compute upper confidence limit for the mean of the last 4 measurements. |
| 5 | N' = **N** * (**N**-1) / 2<br>= **41** * (**41**-1) / 2<br>= **820** | Number of sample pairs during trend detection period. |
| 6 | S = **0.0** | Sen's estimator of trend. |
| 7 | var(S) = **0.0** | Variance estimate for slope. |
| 8 | M(S) = (**N'** ± **Z**$_{.995}$ * **var(S)**$^{½}$) / 2<br>= (**820** ± **2.576** * **0.0**$^{½}$) / 2<br>= [ **410.0**, **410.0** ] | 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
## Nickel, Total (ug/L) at MW-19A

| Step | Equation | Description |
|---|---|---|
| 1 | $\overline{X}$ = **sum[X]** / **N**<br>= **123.3** / **4**<br>= **30.825** | Compute the mean of the last 4 measurements. |
| 2 | S = ( (**sum[X$^2$]** - **sum[X]**$^2$/**N**) / (**N**-1) )$^{½}$<br>= ( (**3923.43** - **15202.89**/**4**) / (**4**-1) )$^{½}$<br>= **6.396** | Compute sd of the last 4 measurements. |
| 3 | LCL = $\overline{\mathbf{X}}$ - **tS**/**N**$^{½}$<br>= **30.825** - **2.353** * **6.396**/**4**$^{½}$<br>= **23.302** | Compute lower confidence limit for the mean of the last 4 measurements. |
| 4 | UCL = $\overline{\mathbf{X}}$ + **tS**/**N**$^{½}$<br>= **30.825** + **2.353** * **6.396**/**4**$^{½}$<br>= **38.348** | Compute upper confidence limit for the mean of the last 4 measurements. |
| 5 | N' = **N** * (**N**-1) / 2<br>= **41** * (**41**-1) / 2<br>= **820** | Number of sample pairs during trend detection period. |
| 6 | S = **0.671** | Sen's estimator of trend. |
| 7 | var(S) = **7895.333** | Variance estimate for slope. |
| 8 | M(S) = (**N'** ± **Z**$_{.995}$ * **var(S)**$^{½}$) / 2<br>= (**820** ± **2.576** * **7895.333**$^{½}$) / 2<br>= [ **295.554**, **524.446** ] | 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) = [ **0.335**, **1.037** ] | Two-sided confidence interval for slope. |
| 10 | LCL(S) > 0 | **Significant increasing trend.** |

## Worksheet 6 - Assessment Monitoring
## Arsenic, Total (ug/L) at MW-23A

| Step | Equation | Description |
|---|---|---|
| 1 | $\overline{X}$ = **sum[X]** / **N**<br>= **42.8** / **4**<br>= **10.7** | Compute the mean of the last 4 measurements. |
| 2 | S = ( (**sum[X$^2$]** - **sum[X]**$^2$/**N**) / (**N**-1) )$^{½}$<br>= ( (**509.52** - **1831.84**/**4**) / (**4**-1) )$^{½}$<br>= **4.146** | Compute sd of the last 4 measurements. |
| 3 | LCL = $\overline{\mathbf{X}}$ - **tS**/**N**$^{½}$<br>= **10.7** - **2.353** * **4.146**/**4**$^{½}$<br>= **5.823** | Compute lower confidence limit for the mean of the last 4 measurements. |
| 4 | UCL = $\overline{\mathbf{X}}$ + **tS**/**N**$^{½}$<br>= **10.7** + **2.353** * **4.146**/**4**$^{½}$<br>= **15.577** | Compute upper confidence limit for the mean of the last 4 measurements. |
| 5 | N' = **N** * (**N**-1) / 2<br>= **38** * (**38**-1) / 2<br>= **703** | Number of sample pairs during trend detection period. |
| 6 | S = **0.0** | Sen's estimator of trend. |
| 7 | var(S) = **1368.667** | Variance estimate for slope. |
| 8 | M(S) = (**N'** ± **Z**$_{.995}$ * **var(S)**$^{½}$) / 2<br>= (**703** ± **2.576** * **1368.667**$^{½}$) / 2<br>= [ **303.85**, **399.15** ] | 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
## Barium, Total (ug/L) at MW-23A

| Step | Equation | Description |
|---|---|---|
| 1 | $\overline{X}$ = **sum[X]** / **N**<br>= **6260.0** / **4**<br>= **1565.0** | Compute the mean of the last 4 measurements. |
| 2 | S = ( (**sum[X$^2$]** - **sum[X]**$^2$/**N**) / (**N**-1) )$^{½}$<br>= ( (**1.02**x**10$^7$** - **3.92**x**10$^7$**/**4**) / (**4**-1) )$^{½}$<br>= **365.194** | Compute sd of the last 4 measurements. |
| 3 | LCL = $\overline{\mathbf{X}}$ - **tS**/**N**$^{½}$<br>= **1565.0** - **2.353** * **365.194**/**4**$^{½}$<br>= **1135.426** | Compute lower confidence limit for the mean of the last 4 measurements. |
| 4 | UCL = $\overline{\mathbf{X}}$ + **tS**/**N**$^{½}$<br>= **1565.0** + **2.353** * **365.194**/**4**$^{½}$<br>= **1994.574** | Compute upper confidence limit for the mean of the last 4 measurements. |
| 5 | N' = **N** * (**N**-1) / 2<br>= **38** * (**38**-1) / 2<br>= **703** | Number of sample pairs during trend detection period. |
| 6 | S = **83.626** | Sen's estimator of trend. |
| 7 | var(S) = **6323.0** | Variance estimate for slope. |
| 8 | M(S) = (**N'** ± **Z**$_{.995}$ * **var(S)**$^{½}$) / 2<br>= (**703** ± **2.576** * **6323.0**$^{½}$) / 2<br>= [ **249.082**, **453.918** ] | 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) = [ **47.086**, **116.698** ] | Two-sided confidence interval for slope. |
| 10 | LCL(S) > 0 | **Significant increasing trend.** |

## Worksheet 6 - Assessment Monitoring
## Cobalt, Total (ug/L) at MW-23A

| Step | Equation | Description |
|---|---|---|
| 1 | $\overline{X}$ = **sum[X]** / **N**<br>= **32.98** / **4**<br>= **8.245** | Compute the mean of the last 4 measurements. |
| 2 | S = ( (**sum[X$^2$]** - **sum[X]**$^2$/**N**) / (**N**-1) )$^{½}$<br>= ( (**345.052** - **1087.68**/**4**) / (**4**-1) )$^{½}$<br>= **4.937** | Compute sd of the last 4 measurements. |
| 3 | LCL = $\overline{\mathbf{X}}$ - **tS**/**N**$^{½}$<br>= **8.245** - **2.353** * **4.937**/**4**$^{½}$<br>= **2.437** | Compute lower confidence limit for the mean of the last 4 measurements. |
| 4 | UCL = $\overline{\mathbf{X}}$ + **tS**/**N**$^{½}$<br>= **8.245** + **2.353** * **4.937**/**4**$^{½}$<br>= **14.053** | Compute upper confidence limit for the mean of the last 4 measurements. |
| 5 | N' = **N** * (**N**-1) / 2<br>= **37** * (**37**-1) / 2<br>= **666** | Number of sample pairs during trend detection period. |
| 6 | S = **0.0** | Sen's estimator of trend. |
| 7 | var(S) = **4588.333** | Variance estimate for slope. |
| 8 | M(S) = (**N'** ± **Z**$_{.995}$ * **var(S)**$^{½}$) / 2<br>= (**666** ± **2.576** * **4588.333**$^{½}$) / 2<br>= [ **245.754**, **420.246** ] | 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**, **0.251** ] | 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 MW-23A

| Step | Equation | Description |
|---|---|---|
| 1 | $\overline{X}$ = **sum[X]** / **N**<br>= **42.1** / **4**<br>= **10.525** | Compute the mean of the last 4 measurements. |
| 2 | S = ( (**sum[X$^2$]** - **sum[X]**$^2$/**N**) / (**N**-1) )$^{½}$<br>= ( (**577.21** - **1772.41**/**4**) / (**4**-1) )$^{½}$<br>= **6.686** | Compute sd of the last 4 measurements. |
| 3 | LCL = $\overline{\mathbf{X}}$ - **tS**/**N**$^{½}$<br>= **10.525** - **2.353** * **6.686**/**4**$^{½}$<br>= **2.66** | Compute lower confidence limit for the mean of the last 4 measurements. |
| 4 | UCL = $\overline{\mathbf{X}}$ + **tS**/**N**$^{½}$<br>= **10.525** + **2.353** * **6.686**/**4**$^{½}$<br>= **18.39** | Compute upper confidence limit for the mean of the last 4 measurements. |
| 5 | N' = **N** * (**N**-1) / 2<br>= **37** * (**37**-1) / 2<br>= **666** | Number of sample pairs during trend detection period. |
| 6 | S = **0.53** | Sen's estimator of trend. |
| 7 | var(S) = **4749.333** | Variance estimate for slope. |
| 8 | M(S) = (**N'** ± **Z**$_{.995}$ * **var(S)**$^{½}$) / 2<br>= (**666** ± **2.576** * **4749.333**$^{½}$) / 2<br>= [ **244.237**, **421.763** ] | 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**, **1.031** ] | Two-sided confidence interval for slope. |
| 10 | the interval includes 0 | There is no significant trend. |

## Worksheet 6 - Assessment Monitoring
## Arsenic, Total (ug/L) at MW-37A

| Step | Equation | Description |
|---|---|---|
| 1 | $\overline{X}$ = **sum[X]** / **N**<br>= **216.0** / **4**<br>= **54.0** | Compute the mean of the last 4 measurements. |
| 2 | S = ( (**sum[X$^2$]** - **sum[X]**$^2$/**N**) / (**N**-1) )$^{½}$<br>= ( (**11822.3** - **46656.0**/**4**) / (**4**-1) )$^{½}$<br>= **7.264** | Compute sd of the last 4 measurements. |
| 3 | LCL = $\overline{\mathbf{X}}$ - **tS**/**N**$^{½}$<br>= **54.0** - **2.353** * **7.264**/**4**$^{½}$<br>= **45.455** | Compute lower confidence limit for the mean of the last 4 measurements. |
| 4 | UCL = $\overline{\mathbf{X}}$ + **tS**/**N**$^{½}$<br>= **54.0** + **2.353** * **7.264**/**4**$^{½}$<br>= **62.545** | Compute upper confidence limit for the mean of the last 4 measurements. |
| 5 | N' = **N** * (**N**-1) / 2<br>= **38** * (**38**-1) / 2<br>= **703** | Number of sample pairs during trend detection period. |
| 6 | S = **3.184** | Sen's estimator of trend. |
| 7 | var(S) = **5737.667** | Variance estimate for slope. |
| 8 | M(S) = (**N'** ± **Z**$_{.995}$ * **var(S)**$^{½}$) / 2<br>= (**703** ± **2.576** * **5737.667**$^{½}$) / 2<br>= [ **253.937**, **449.063** ] | 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) = [ **2.435**, **3.887** ] | Two-sided confidence interval for slope. |
| 10 | LCL(S) > 0 | **Significant increasing trend.** |

## Worksheet 6 - Assessment Monitoring
## Barium, Total (ug/L) at MW-37A

| Step | Equation | Description |
|---|---|---|
| 1 | $\overline{X}$ = **sum[X]** / **N**<br>= **5130.0** / **4**<br>= **1282.5** | Compute the mean of the last 4 measurements. |
| 2 | S = ( (**sum[X$^2$]** - **sum[X]**$^2$/**N**) / (**N**-1) )$^{½}$<br>= ( (**6.62**x**10$^6$** - **2.63**x**10$^7$**/**4**) / (**4**-1) )$^{½}$<br>= **112.657** | Compute sd of the last 4 measurements. |
| 3 | LCL = $\overline{\mathbf{X}}$ - **tS**/**N**$^{½}$<br>= **1282.5** - **2.353** * **112.657**/**4**$^{½}$<br>= **1149.983** | Compute lower confidence limit for the mean of the last 4 measurements. |
| 4 | UCL = $\overline{\mathbf{X}}$ + **tS**/**N**$^{½}$<br>= **1282.5** + **2.353** * **112.657**/**4**$^{½}$<br>= **1415.017** | Compute upper confidence limit for the mean of the last 4 measurements. |
| 5 | N' = **N** * (**N**-1) / 2<br>= **38** * (**38**-1) / 2<br>= **703** | Number of sample pairs during trend detection period. |
| 6 | S = **64.463** | Sen's estimator of trend. |
| 7 | var(S) = **6321.0** | Variance estimate for slope. |
| 8 | M(S) = (**N'** ± **Z**$_{.995}$ * **var(S)**$^{½}$) / 2<br>= (**703** ± **2.576** * **6321.0**$^{½}$) / 2<br>= [ **249.098**, **453.902** ] | 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) = [ **56.878**, **75.078** ] | Two-sided confidence interval for slope. |
| 10 | LCL(S) > 0 | **Significant increasing trend.** |

## Worksheet 6 - Assessment Monitoring
## Cobalt, Total (ug/L) at MW-37A

| Step | Equation | Description |
|---|---|---|
| 1 | $\overline{X}$ = **sum[X]** / **N**<br>= **86.5** / **4**<br>= **21.625** | Compute the mean of the last 4 measurements. |
| 2 | S = ( (**sum[X$^2$]** - **sum[X]**$^2$/**N**) / (**N**-1) )$^{½}$<br>= ( (**1888.21** - **7482.25**/**4**) / (**4**-1) )$^{½}$<br>= **2.425** | Compute sd of the last 4 measurements. |
| 3 | LCL = $\overline{\mathbf{X}}$ - **tS**/**N**$^{½}$<br>= **21.625** - **2.353** * **2.425**/**4**$^{½}$<br>= **18.772** | Compute lower confidence limit for the mean of the last 4 measurements. |
| 4 | UCL = $\overline{\mathbf{X}}$ + **tS**/**N**$^{½}$<br>= **21.625** + **2.353** * **2.425**/**4**$^{½}$<br>= **24.478** | Compute upper confidence limit for the mean of the last 4 measurements. |
| 5 | N' = **N** * (**N**-1) / 2<br>= **38** * (**38**-1) / 2<br>= **703** | Number of sample pairs during trend detection period. |
| 6 | S = **0.653** | Sen's estimator of trend. |
| 7 | var(S) = **6056.333** | Variance estimate for slope. |
| 8 | M(S) = (**N'** ± **Z**$_{.995}$ * **var(S)**$^{½}$) / 2<br>= (**703** ± **2.576** * **6056.333**$^{½}$) / 2<br>= [ **251.265**, **451.735** ] | 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) = [ **0.387**, **1.027** ] | Two-sided confidence interval for slope. |
| 10 | LCL(S) > 0 | **Significant increasing trend.** |

## Worksheet 6 - Assessment Monitoring
## Nickel, Total (ug/L) at MW-37A

| Step | Equation | Description |
|---|---|---|
| 1 | $\overline{X}$ = **sum[X]** / **N**<br>= **1006.0** / **4**<br>= **251.5** | Compute the mean of the last 4 measurements. |
| 2 | S = ( (**sum[X$^2$]** - **sum[X]**$^2$/**N**) / (**N**-1) )$^{½}$<br>= ( (**260130.0** - **1.01**x**10$^6$**/**4**) / (**4**-1) )$^{½}$<br>= **48.72** | Compute sd of the last 4 measurements. |
| 3 | LCL = $\overline{\mathbf{X}}$ - **tS**/**N**$^{½}$<br>= **251.5** - **2.353** * **48.72**/**4**$^{½}$<br>= **194.191** | Compute lower confidence limit for the mean of the last 4 measurements. |
| 4 | UCL = $\overline{\mathbf{X}}$ + **tS**/**N**$^{½}$<br>= **251.5** + **2.353** * **48.72**/**4**$^{½}$<br>= **308.809** | Compute upper confidence limit for the mean of the last 4 measurements. |
| 5 | N' = **N** * (**N**-1) / 2<br>= **38** * (**38**-1) / 2<br>= **703** | Number of sample pairs during trend detection period. |
| 6 | S = **7.019** | Sen's estimator of trend. |
| 7 | var(S) = **6324.0** | Variance estimate for slope. |
| 8 | M(S) = (**N'** ± **Z**$_{.995}$ * **var(S)**$^{½}$) / 2<br>= (**703** ± **2.576** * **6324.0**$^{½}$) / 2<br>= [ **249.074**, **453.926** ] | 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) = [ **4.692**, **10.722** ] | Two-sided confidence interval for slope. |
| 10 | LCL(S) > 0 | **Significant increasing trend.** |

## Worksheet 6 - Assessment Monitoring
## Arsenic, Total (ug/L) at MW-38A

| Step | Equation | Description |
|---|---|---|
| 1 | $\overline{X}$ = **sum[X]** / **N**<br>= **20.0** / **4**<br>= **5.0** | Compute the mean of the last 4 measurements. |
| 2 | S = ( (**sum[X$^2$]** - **sum[X]**$^2$/**N**) / (**N**-1) )$^{½}$<br>= ( (**100.0** - **400.0**/**4**) / (**4**-1) )$^{½}$<br>= **0.0** | Compute sd of the last 4 measurements. |
| 3 | LCL = $\overline{\mathbf{X}}$ - **tS**/**N**$^{½}$<br>= **5.0** - **2.353** * **0.0**/**4**$^{½}$<br>= **5.0** | Compute lower confidence limit for the mean of the last 4 measurements. |
| 4 | UCL = $\overline{\mathbf{X}}$ + **tS**/**N**$^{½}$<br>= **5.0** + **2.353** * **0.0**/**4**$^{½}$<br>= **5.0** | Compute upper confidence limit for the mean of the last 4 measurements. |
| 5 | N' = **N** * (**N**-1) / 2<br>= **38** * (**38**-1) / 2<br>= **703** | Number of sample pairs during trend detection period. |
| 6 | S = **0.0** | Sen's estimator of trend. |
| 7 | var(S) = **0.0** | Variance estimate for slope. |
| 8 | M(S) = (**N'** ± **Z**$_{.995}$ * **var(S)**$^{½}$) / 2<br>= (**703** ± **2.576** * **0.0**$^{½}$) / 2<br>= [ **351.5**, **351.5** ] | 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
## Barium, Total (ug/L) at MW-38A

| Step | Equation | Description |
|---|---|---|
| 1 | $\overline{X}$ = **sum[X]** / **N**<br>= **896.0** / **4**<br>= **224.0** | Compute the mean of the last 4 measurements. |
| 2 | S = ( (**sum[X$^2$]** - **sum[X]**$^2$/**N**) / (**N**-1) )$^{½}$<br>= ( (**202528.0** - **802816.0**/**4**) / (**4**-1) )$^{½}$<br>= **24.658** | Compute sd of the last 4 measurements. |
| 3 | LCL = $\overline{\mathbf{X}}$ - **tS**/**N**$^{½}$<br>= **224.0** - **2.353** * **24.658**/**4**$^{½}$<br>= **194.995** | Compute lower confidence limit for the mean of the last 4 measurements. |
| 4 | UCL = $\overline{\mathbf{X}}$ + **tS**/**N**$^{½}$<br>= **224.0** + **2.353** * **24.658**/**4**$^{½}$<br>= **253.005** | Compute upper confidence limit for the mean of the last 4 measurements. |
| 5 | N' = **N** * (**N**-1) / 2<br>= **38** * (**38**-1) / 2<br>= **703** | Number of sample pairs during trend detection period. |
| 6 | S = **2.871** | Sen's estimator of trend. |
| 7 | var(S) = **6291.333** | Variance estimate for slope. |
| 8 | M(S) = (**N'** ± **Z**$_{.995}$ * **var(S)**$^{½}$) / 2<br>= (**703** ± **2.576** * **6291.333**$^{½}$) / 2<br>= [ **249.339**, **453.661** ] | 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) = [ **0.82**, **5.101** ] | Two-sided confidence interval for slope. |
| 10 | LCL(S) > 0 | **Significant increasing trend.** |

## Worksheet 6 - Assessment Monitoring
## Cobalt, Total (ug/L) at MW-38A

| Step | Equation | Description |
|---|---|---|
| 1 | $\overline{X}$ = **sum[X]** / **N**<br>= **6.27** / **4**<br>= **1.568** | Compute the mean of the last 4 measurements. |
| 2 | S = ( (**sum[X$^2$]** - **sum[X]**$^2$/**N**) / (**N**-1) )$^{½}$<br>= ( (**10.165** - **39.313**/**4**) / (**4**-1) )$^{½}$<br>= **0.335** | Compute sd of the last 4 measurements. |
| 3 | LCL = $\overline{\mathbf{X}}$ - **tS**/**N**$^{½}$<br>= **1.568** - **2.353** * **0.335**/**4**$^{½}$<br>= **1.173** | Compute lower confidence limit for the mean of the last 4 measurements. |
| 4 | UCL = $\overline{\mathbf{X}}$ + **tS**/**N**$^{½}$<br>= **1.568** + **2.353** * **0.335**/**4**$^{½}$<br>= **1.962** | Compute upper confidence limit for the mean of the last 4 measurements. |
| 5 | N' = **N** * (**N**-1) / 2<br>= **39** * (**39**-1) / 2<br>= **741** | Number of sample pairs during trend detection period. |
| 6 | S = **0.0** | Sen's estimator of trend. |
| 7 | var(S) = **987.667** | Variance estimate for slope. |
| 8 | M(S) = (**N'** ± **Z**$_{.995}$ * **var(S)**$^{½}$) / 2<br>= (**741** ± **2.576** * **987.667**$^{½}$) / 2<br>= [ **330.022**, **410.978** ] | 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
## Nickel, Total (ug/L) at MW-38A

| Step | Equation | Description |
|---|---|---|
| 1 | $\overline{X}$ = **sum[X]** / **N**<br>= **133.9** / **4**<br>= **33.475** | Compute the mean of the last 4 measurements. |
| 2 | S = ( (**sum[X$^2$]** - **sum[X]**$^2$/**N**) / (**N**-1) )$^{½}$<br>= ( (**4524.51** - **17929.21**/**4**) / (**4**-1) )$^{½}$<br>= **3.751** | Compute sd of the last 4 measurements. |
| 3 | LCL = $\overline{\mathbf{X}}$ - **tS**/**N**$^{½}$<br>= **33.475** - **2.353** * **3.751**/**4**$^{½}$<br>= **29.063** | Compute lower confidence limit for the mean of the last 4 measurements. |
| 4 | UCL = $\overline{\mathbf{X}}$ + **tS**/**N**$^{½}$<br>= **33.475** + **2.353** * **3.751**/**4**$^{½}$<br>= **37.887** | Compute upper confidence limit for the mean of the last 4 measurements. |
| 5 | N' = **N** * (**N**-1) / 2<br>= **38** * (**38**-1) / 2<br>= **703** | Number of sample pairs during trend detection period. |
| 6 | S = **0.076** | Sen's estimator of trend. |
| 7 | var(S) = **6322.0** | Variance estimate for slope. |
| 8 | M(S) = (**N'** ± **Z**$_{.995}$ * **var(S)**$^{½}$) / 2<br>= (**703** ± **2.576** * **6322.0**$^{½}$) / 2<br>= [ **249.09**, **453.91** ] | 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) = [ **-0.758**, **0.657** ] | 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 | Holding Pond | 15 | 11 | 26 | | | 6.0000 | 6.0000 | | | 6.0000 | nonpar | .99 | ** |
| Arsenic, Total | ug/L | Holding Pond | 15 | 15 | 72 | | | 10.0000 | 10.9000 | | | 10.0000 | nonpar | .99 | ** |
| Barium, Total | ug/L | Holding Pond | 15 | 11 | 68 | 124.1800 | 49.7636 | 116.0000 | 178.0000 | 124.1800 | 140.6773 | 447.6433 | normal | | |
| Beryllium, Total | ug/L | Holding Pond | 15 | 11 | 26 | | | 4.0000 | 4.0000 | | | 4.0000 | nonpar | .99 | ** |
| Cadmium, Total | ug/L | Holding Pond | 15 | 11 | 68 | | | 5.0000 | 5.0000 | | | 5.0000 | nonpar | .99 | ** |
| Chromium, Total | ug/L | Holding Pond | 15 | 11 | 68 | | | 10.0000 | 10.0000 | | | 10.0000 | nonpar | .99 | ** |
| Cobalt, Total | ug/L | Holding Pond | 15 | 13 | 28 | | | 2.0000 | 2.0000 | | | 2.8000 | nonpar | .99 | ** |
| Copper, Total | ug/L | Holding Pond | 15 | 11 | 68 | | | 10.0000 | 10.0000 | | | 10.0000 | nonpar | .99 | ** |
| Lead, Total | ug/L | Holding Pond | 15 | 11 | 68 | | | 10.0000 | 10.0000 | | | 10.0000 | nonpar | .99 | ** |
| Nickel, Total | ug/L | Holding Pond | 15 | 14 | 29 | | | 22.1000 | 14.2000 | | | 13.7000 | nonpar | .99 | ** |
| Selenium, Total | ug/L | Holding Pond | 15 | 11 | 26 | | | 10.0000 | 10.0000 | | | 10.0000 | nonpar | .99 | ** |
| Silver, Total | ug/L | Holding Pond | 15 | 11 | 26 | | | 10.0000 | 10.0000 | | | 10.0000 | nonpar | .99 | ** |
| Thallium, Total | ug/L | Holding Pond | 15 | 11 | 26 | | | 2.0000 | 2.0000 | | | 2.0000 | nonpar | .99 | ** |
| Vanadium, Total | ug/L | Holding Pond | 15 | 11 | 26 | | | 20.0000 | 20.0000 | | | 20.0000 | nonpar | .99 | ** |
| Zinc, Total | ug/L | Holding Pond | 15 | 11 | 69 | | | 50.0000 | 50.0000 | | | 20.0000 | nonpar | .99 | ** |
| Antimony, Total | ug/L | MW-11A | 26 | 11 | 37 | | | 6.0000 | 6.0000 | | | 6.0000 | nonpar | .99 | ** |
| Arsenic, Total | ug/L | MW-11A | 26 | 11 | 37 | | | 10.0000 | 10.0000 | | | 10.0000 | nonpar | .99 | ** |
| Barium, Total | ug/L | MW-11A | 26 | 11 | 37 | 211.8462 | 43.9615 | 235.0000 | 227.0000 | 211.8462 | 211.8462 | 497.5960 | normal | | |
| Beryllium, Total | ug/L | MW-11A | 26 | 11 | 37 | | | 4.0000 | 4.0000 | | | 4.0000 | nonpar | .99 | ** |
| Cadmium, Total | ug/L | MW-11A | 26 | 11 | 37 | | | 5.0000 | 5.0000 | | | 5.0000 | nonpar | .99 | ** |
| Chromium, Total | ug/L | MW-11A | 25 | 11 | 37 | | | 10.0000 | 10.0000 | | | 13.0000 | nonpar | .99 | ** |
| Cobalt, Total | ug/L | MW-11A | 26 | 11 | 37 | | | 2.0000 | 2.0000 | | | 11.0000 | nonpar | .99 | ** |
| Copper, Total | ug/L | MW-11A | 25 | 11 | 37 | | | 10.0000 | 10.0000 | | | 15.0000 | nonpar | .99 | ** |
| Lead, Total | ug/L | MW-11A | 26 | 11 | 37 | | | 10.0000 | 10.0000 | | | 10.0000 | nonpar | .99 | ** |
| Nickel, Total | ug/L | MW-11A | 25 | 11 | 37 | | | 10.0000 | 10.0000 | | | 13.0000 | nonpar | .99 | ** |
| Selenium, Total | ug/L | MW-11A | 24 | 11 | 37 | | | 10.0000 | 10.0000 | | | 25.0000 | nonpar | .99 | ** |
| Silver, Total | ug/L | MW-11A | 26 | 11 | 37 | | | 10.0000 | 10.0000 | | | 10.0000 | nonpar | .99 | ** |
| Thallium, Total | ug/L | MW-11A | 26 | 11 | 37 | | | 2.0000 | 2.0000 | | | 2.0000 | nonpar | .99 | ** |
| Vanadium, Total | ug/L | MW-11A | 25 | 11 | 37 | | | 20.0000 | 20.0000 | | | 33.0000 | nonpar | .99 | ** |
| Zinc, Total | ug/L | MW-11A | 25 | 11 | 37 | | | 50.0000 | 50.0000 | | | 34.0000 | nonpar | .99 | ** |
| Antimony, Total | ug/L | MW-12A | 30 | 11 | 41 | | | 6.0000 | 6.0000 | | | 6.0000 | nonpar | .99 | ** |
| Arsenic, Total | ug/L | MW-12A | 30 | 11 | 41 | | | 10.0000 | 10.0000 | | | 10.0000 | nonpar | .99 | ** |
| Barium, Total | ug/L | MW-12A | 30 | 11 | 41 | 226.8833 | 23.8688 | 267.0000 | 283.0000 | 400.3889 | 416.3889 | 382.0304 | normal | | |
| Beryllium, Total | ug/L | MW-12A | 30 | 11 | 41 | | | 4.0000 | 4.0000 | | | 4.0000 | nonpar | .99 | ** |
| Cadmium, Total | ug/L | MW-12A | 30 | 11 | 41 | | | 5.0000 | 5.0000 | | | 5.0000 | nonpar | .99 | ** |
| Chromium, Total | ug/L | MW-12A | 30 | 11 | 41 | | | 10.0000 | 10.0000 | | | 10.0000 | nonpar | .99 | ** |
| Cobalt, Total | ug/L | MW-12A | 30 | 11 | 41 | | | 2.2000 | 2.5500 | | | 10.0000 | nonpar | .99 | ** |
| Copper, Total | ug/L | MW-12A | 29 | 11 | 41 | | | 10.0000 | 10.0000 | | | 10.0000 | nonpar | .99 | ** |
| Lead, Total | ug/L | MW-12A | 30 | 11 | 41 | | | 10.0000 | 10.0000 | | | 10.0000 | nonpar | .99 | ** |
| Nickel, Total | ug/L | MW-12A | 30 | 11 | 41 | | | 14.5000 | 15.4000 | | | 11.0000 | nonpar | .99 | ** |
| Selenium, Total | ug/L | MW-12A | 30 | 11 | 41 | | | 10.0000 | 10.0000 | | | 10.0000 | nonpar | .99 | ** |
| Silver, Total | ug/L | MW-12A | 30 | 11 | 41 | | | 10.0000 | 10.0000 | | | 10.0000 | nonpar | .99 | ** |
| Thallium, Total | ug/L | MW-12A | 30 | 11 | 41 | | | 2.0000 | 2.0000 | | | 2.0000 | nonpar | .99 | ** |
| Vanadium, Total | ug/L | MW-12A | 30 | 11 | 41 | | | 20.0000 | 20.0000 | | | 20.0000 | nonpar | .99 | ** |
| Zinc, Total | ug/L | MW-12A | 30 | 11 | 41 | | | 50.0000 | 50.0000 | | | 20.0000 | nonpar | .99 | ** |
| Antimony, Total | ug/L | MW-13A | 29 | 11 | 40 | | | 6.0000 | 6.0000 | | | 6.0000 | nonpar | .99 | ** |

N(back) and N(mon) = Non-outlier measurements in the background and monitoring periods.
N(tot) = All independent measurements for that constituent and well.
For transformed data, mean and SD in transformed units and control limit in original units.
Conf = confidence level for passing initial test or one verification resample (nonparametric test only).
* - Insufficient Data.
** - Detection Frequency < 25%.
*** - Zero Variance.

## Table 1

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

| Constituent | Units | Well | N(back) | N(mon) | N(tot) | Mean | SD | R(i-1) | R(i) | S(i-1) | S(i) | Limit | Type | Conf | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic, Total | ug/L | MW-13A | 29 | 11 | 40 | | | 10.0000 | 10.0000 | | | 10.0000 | nonpar | .99 | ** |
| Barium, Total | ug/L | MW-13A | 29 | 11 | 40 | 229.7241 | 56.1604 | 396.0000 | 413.0000 | 718.6574 | 735.6574 | 594.7669 | normal | | |
| Beryllium, Total | ug/L | MW-13A | 29 | 11 | 40 | | | 4.0000 | 4.0000 | | | 4.0000 | nonpar | .99 | ** |
| Cadmium, Total | ug/L | MW-13A | 29 | 11 | 40 | | | 5.0000 | 5.0000 | | | 5.0000 | nonpar | .99 | ** |
| Chromium, Total | ug/L | MW-13A | 29 | 11 | 41 | | | 10.0000 | 10.0000 | | | 10.0000 | nonpar | .99 | ** |
| Cobalt, Total | ug/L | MW-13A | 29 | 11 | 40 | | | 2.3700 | 2.0000 | | | 10.0000 | nonpar | .99 | ** |
| Copper, Total | ug/L | MW-13A | 29 | 11 | 40 | | | 10.0000 | 10.0000 | | | 10.0000 | nonpar | .99 | ** |
| Lead, Total | ug/L | MW-13A | 29 | 11 | 40 | | | 10.0000 | 10.0000 | | | 10.0000 | nonpar | .99 | ** |
| Nickel, Total | ug/L | MW-13A | 29 | 11 | 40 | | | 10.0000 | 10.0000 | | | 10.0000 | nonpar | .99 | ** |
| Selenium, Total | ug/L | MW-13A | 29 | 11 | 40 | | | 10.0000 | 10.0000 | | | 10.0000 | nonpar | .99 | ** |
| Silver, Total | ug/L | MW-13A | 29 | 11 | 40 | | | 10.0000 | 10.0000 | | | 10.0000 | nonpar | .99 | ** |
| Thallium, Total | ug/L | MW-13A | 29 | 11 | 40 | | | 2.0000 | 2.0000 | | | 2.0000 | nonpar | .99 | ** |
| Vanadium, Total | ug/L | MW-13A | 29 | 11 | 40 | | | 20.0000 | 20.0000 | | | 20.0000 | nonpar | .99 | ** |
| Zinc, Total | ug/L | MW-13A | 29 | 11 | 40 | | | 50.0000 | 50.0000 | | | 20.0000 | nonpar | .99 | ** |
| Antimony, Total | ug/L | MW-19A | 30 | 11 | 41 | | | 6.0000 | 6.0000 | | | 6.0000 | nonpar | .99 | ** |
| Arsenic, Total | ug/L | MW-19A | 30 | 11 | 41 | | | 10.0000 | 10.0000 | | | 10.0000 | nonpar | .99 | ** |
| Barium, Total | ug/L | MW-19A | 30 | 11 | 41 | 151.8000 | 21.9080 | 208.0000 | 186.0000 | 191.5690 | 209.3381 | 294.2017 | normal | | |
| Beryllium, Total | ug/L | MW-19A | 30 | 11 | 41 | | | 4.0000 | 4.0000 | | | 4.0000 | nonpar | .99 | ** |
| Cadmium, Total | ug/L | MW-19A | 30 | 11 | 41 | | | 5.0000 | 5.0000 | | | 5.0000 | nonpar | .99 | ** |
| Chromium, Total | ug/L | MW-19A | 30 | 11 | 44 | | | 10.0000 | 10.0000 | | | 10.0000 | nonpar | .99 | ** |
| Cobalt, Total | ug/L | MW-19A | 30 | 11 | 41 | | | 2.0000 | 2.0000 | | | 10.0000 | nonpar | .99 | ** |
| Copper, Total | ug/L | MW-19A | 30 | 11 | 41 | | | 10.0000 | 10.0000 | | | 10.0000 | nonpar | .99 | ** |
| Lead, Total | ug/L | MW-19A | 30 | 11 | 41 | | | 10.0000 | 10.0000 | | | 10.0000 | nonpar | .99 | ** |
| Nickel, Total | ug/L | MW-19A | 30 | 11 | 41 | 14.2933 | 3.1695 | 38.6000 | 33.5000 | 50.6708 | 45.5708 | 34.8948 | normal | | |
| Selenium, Total | ug/L | MW-19A | 30 | 11 | 41 | | | 10.0000 | 10.0000 | | | 10.0000 | nonpar | .99 | ** |
| Silver, Total | ug/L | MW-19A | 30 | 11 | 41 | | | 10.0000 | 10.0000 | | | 10.0000 | nonpar | .99 | ** |
| Thallium, Total | ug/L | MW-19A | 30 | 11 | 41 | | | 2.0000 | 2.0000 | | | 2.0000 | nonpar | .99 | ** |
| Vanadium, Total | ug/L | MW-19A | 30 | 11 | 41 | | | 20.0000 | 20.0000 | | | 22.0000 | nonpar | .99 | ** |
| Zinc, Total | ug/L | MW-19A | 30 | 11 | 41 | | | 50.0000 | 50.0000 | | | 20.0000 | nonpar | .99 | ** |
| Antimony, Total | ug/L | MW-21A | 29 | 11 | 40 | | | 6.0000 | 6.0000 | | | 6.0000 | nonpar | .99 | ** |
| Arsenic, Total | ug/L | MW-21A | 29 | 11 | 40 | | | 10.0000 | 10.0000 | | | 10.0000 | nonpar | .99 | ** |
| Barium, Total | ug/L | MW-21A | 29 | 11 | 40 | 238.8276 | 33.8020 | 296.0000 | 291.0000 | 399.0366 | 425.8575 | 458.5407 | normal | | |
| Beryllium, Total | ug/L | MW-21A | 29 | 11 | 40 | | | 4.0000 | 4.0000 | | | 4.0000 | nonpar | .99 | ** |
| Cadmium, Total | ug/L | MW-21A | 29 | 11 | 40 | | | 5.0000 | 5.0000 | | | 5.0000 | nonpar | .99 | ** |
| Chromium, Total | ug/L | MW-21A | 29 | 11 | 44 | | | 10.0000 | 10.0000 | | | 10.0000 | nonpar | .99 | ** |
| Cobalt, Total | ug/L | MW-21A | 29 | 11 | 40 | | | 2.0000 | 2.0000 | | | 10.0000 | nonpar | .99 | ** |
| Copper, Total | ug/L | MW-21A | 29 | 11 | 40 | | | 10.0000 | 10.0000 | | | 10.0000 | nonpar | .99 | ** |
| Lead, Total | ug/L | MW-21A | 29 | 11 | 40 | | | 10.0000 | 10.0000 | | | 10.0000 | nonpar | .99 | ** |
| Nickel, Total | ug/L | MW-21A | 29 | 11 | 40 | | | 10.0000 | 10.0000 | | | 10.0000 | nonpar | .99 | ** |
| Selenium, Total | ug/L | MW-21A | 29 | 11 | 40 | | | 10.0000 | 10.0000 | | | 10.0000 | nonpar | .99 | ** |
| Silver, Total | ug/L | MW-21A | 29 | 11 | 40 | | | 10.0000 | 10.0000 | | | 10.0000 | nonpar | .99 | ** |
| Thallium, Total | ug/L | MW-21A | 29 | 11 | 40 | | | 2.0000 | 2.0000 | | | 2.0000 | nonpar | .99 | ** |
| Vanadium, Total | ug/L | MW-21A | 29 | 11 | 40 | | | 20.0000 | 20.0000 | | | 20.0000 | nonpar | .99 | ** |
| Zinc, Total | ug/L | MW-21A | 29 | 11 | 40 | | | 50.0000 | 50.0000 | | | 20.0000 | nonpar | .99 | ** |
| Antimony, Total | ug/L | MW-23A | 19 | 20 | 39 | | | 6.0000 | 6.0000 | | | 6.0000 | nonpar | .99 | ** |
| Arsenic, Total | ug/L | MW-23A | 17 | 21 | 40 | | | 14.8000 | 12.2000 | | | 10.0000 | nonpar | .99 | ** |

N(back) and N(mon) = Non-outlier measurements in the background and monitoring periods.
N(tot) = All independent measurements for that constituent and well.
For transformed data, mean and SD in transformed units and control limit in original units.
Conf = confidence level for passing initial test or one verification resample (nonparametric test only).
* - Insufficient Data.
** - Detection Frequency < 25%.
*** - Zero Variance.

## Table 1

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

| Constituent | Units | Well | N(back) | N(mon) | N(tot) | Mean | SD | R(i-1) | R(i) | S(i-1) | S(i) | Limit | Type | Conf | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Barium, Total | ug/L | MW-23A | 17 | 21 | 40 | 162.8235 | 39.1092 | 1600.0000 | 1070.0000 | 1766.3572 | 1236.3572 | 417.0333 | normal | | |
| Beryllium, Total | ug/L | MW-23A | 18 | 20 | 39 | | | 4.0000 | 4.0000 | | | 4.0000 | nonpar | .99 | ** |
| Cadmium, Total | ug/L | MW-23A | 19 | 20 | 39 | | | 5.0000 | 5.0000 | | | 5.0000 | nonpar | .99 | ** |
| Chromium, Total | ug/L | MW-23A | 17 | 20 | 39 | | | 10.0000 | 10.0000 | | | 10.0000 | nonpar | .99 | ** |
| Cobalt, Total | ug/L | MW-23A | 15 | 20 | 39 | | | 11.3000 | 3.1800 | | | 10.0000 | nonpar | .99 | ** |
| Copper, Total | ug/L | MW-23A | 17 | 20 | 39 | | | 10.0000 | 10.0000 | | | 10.0000 | nonpar | .99 | ** |
| Lead, Total | ug/L | MW-23A | 18 | 20 | 39 | | | 10.0000 | 10.0000 | | | 10.0000 | nonpar | .99 | ** |
| Nickel, Total | ug/L | MW-23A | 17 | 20 | 39 | | | 13.6000 | 10.0000 | | | 10.0000 | nonpar | .99 | ** |
| Selenium, Total | ug/L | MW-23A | 19 | 20 | 39 | | | 10.0000 | 10.0000 | | | 10.0000 | nonpar | .99 | ** |
| Silver, Total | ug/L | MW-23A | 19 | 20 | 39 | | | 10.0000 | 10.0000 | | | 10.0000 | nonpar | .99 | ** |
| Thallium, Total | ug/L | MW-23A | 19 | 21 | 40 | | | 2.0000 | 2.0000 | | | 2.0000 | nonpar | .99 | ** |
| Vanadium, Total | ug/L | MW-23A | 17 | 20 | 39 | | | 20.0000 | 20.0000 | | | 20.0000 | nonpar | .99 | ** |
| Zinc, Total | ug/L | MW-23A | 17 | 20 | 39 | | | 50.0000 | 50.0000 | | | 20.0000 | nonpar | .99 | ** |
| Antimony, Total | ug/L | MW-34A | 27 | 7 | 34 | | | 6.0000 | 6.0000 | | | 6.0000 | nonpar | .99 | ** |
| Arsenic, Total | ug/L | MW-34A | 27 | 7 | 34 | | | 10.0000 | 10.0000 | | | 10.0000 | nonpar | .99 | ** |
| Barium, Total | ug/L | MW-34A | 27 | 7 | 34 | 74.9481 | 76.3227 | 43.7000 | 39.3000 | 307.8876 | 214.9974 | 571.0455 | normal | | |
| Beryllium, Total | ug/L | MW-34A | 27 | 7 | 34 | | | 4.0000 | 4.0000 | | | 4.0000 | nonpar | .99 | ** |
| Cadmium, Total | ug/L | MW-34A | 27 | 7 | 34 | | | 5.0000 | 5.0000 | | | 5.0000 | nonpar | .99 | ** |
| Chromium, Total | ug/L | MW-34A | 27 | 7 | 34 | | | 10.0000 | 10.0000 | | | 10.0000 | nonpar | .99 | ** |
| Cobalt, Total | ug/L | MW-34A | 27 | 7 | 34 | | | 4.0200 | 2.0000 | | | 10.0000 | nonpar | .99 | ** |
| Copper, Total | ug/L | MW-34A | 27 | 7 | 34 | | | 10.0000 | 10.0000 | | | 10.0000 | nonpar | .99 | ** |
| Lead, Total | ug/L | MW-34A | 27 | 7 | 34 | | | 10.0000 | 10.0000 | | | 10.0000 | nonpar | .99 | ** |
| Nickel, Total | ug/L | MW-34A | 27 | 7 | 34 | | | 10.0000 | 10.0000 | | | 21.0000 | nonpar | .99 | ** |
| Selenium, Total | ug/L | MW-34A | 27 | 7 | 34 | | | 10.0000 | 10.0000 | | | 25.0000 | nonpar | .99 | ** |
| Silver, Total | ug/L | MW-34A | 27 | 7 | 34 | | | 10.0000 | 10.0000 | | | 10.0000 | nonpar | .99 | ** |
| Thallium, Total | ug/L | MW-34A | 27 | 7 | 34 | | | 2.0000 | 2.0000 | | | 2.0000 | nonpar | .99 | ** |
| Vanadium, Total | ug/L | MW-34A | 27 | 7 | 34 | | | 20.0000 | 20.0000 | | | 20.0000 | nonpar | .99 | ** |
| Zinc, Total | ug/L | MW-34A | 27 | 7 | 34 | | | 50.0000 | 50.0000 | | | 20.0000 | nonpar | .99 | ** |
| Antimony, Total | ug/L | MW-37A | 18 | 20 | 38 | | | 6.0000 | 6.0000 | | | 6.0000 | nonpar | .99 | ** |
| Arsenic, Total | ug/L | MW-37A | 18 | 20 | 38 | | | 53.4000 | 55.6000 | | | 12.0000 | nonpar | .99 | ** |
| Barium, Total | ug/L | MW-37A | 18 | 20 | 38 | 217.0000 | 97.1851 | 1320.0000 | 1230.0000 | 1767.5559 | 1677.5559 | 848.7031 | normal | | |
| Beryllium, Total | ug/L | MW-37A | 18 | 20 | 38 | | | 4.0000 | 4.0000 | | | 4.0000 | nonpar | .99 | ** |
| Cadmium, Total | ug/L | MW-37A | 18 | 20 | 38 | | | 5.0000 | 5.0000 | | | 5.0000 | nonpar | .99 | ** |
| Chromium, Total | ug/L | MW-37A | 18 | 20 | 38 | | | 10.0000 | 10.0000 | | | 12.0000 | nonpar | .99 | ** |
| Cobalt, Total | ug/L | MW-37A | 18 | 20 | 38 | 10.3500 | 1.5085 | 23.0000 | 21.2000 | 31.6431 | 29.8431 | 20.1553 | normal | | |
| Copper, Total | ug/L | MW-37A | 18 | 20 | 38 | | | 10.0000 | 10.0000 | | | 13.0000 | nonpar | .99 | ** |
| Lead, Total | ug/L | MW-37A | 18 | 20 | 38 | | | 10.0000 | 10.0000 | | | 10.0000 | nonpar | .99 | ** |
| Nickel, Total | ug/L | MW-37A | 18 | 20 | 38 | 49.1389 | 16.0530 | 278.0000 | 289.0000 | 359.4670 | 370.4670 | 153.4834 | normal | | |
| Selenium, Total | ug/L | MW-37A | 18 | 20 | 38 | | | 10.0000 | 10.0000 | | | 10.0000 | nonpar | .99 | ** |
| Silver, Total | ug/L | MW-37A | 18 | 20 | 38 | | | 10.0000 | 10.0000 | | | 10.0000 | nonpar | .99 | ** |
| Thallium, Total | ug/L | MW-37A | 18 | 20 | 38 | | | 2.0000 | 2.0000 | | | 2.0000 | nonpar | .99 | ** |
| Vanadium, Total | ug/L | MW-37A | 18 | 20 | 38 | | | 20.0000 | 20.0000 | | | 20.0000 | nonpar | .99 | ** |
| Zinc, Total | ug/L | MW-37A | 18 | 20 | 38 | | | 50.0000 | 50.0000 | | | 24.0000 | nonpar | .99 | ** |
| Antimony, Total | ug/L | MW-38A | 27 | 11 | 38 | | | 6.0000 | 6.0000 | | | 6.0000 | nonpar | .99 | ** |
| Arsenic, Total | ug/L | MW-38A | 27 | 11 | 38 | | | 10.0000 | 10.0000 | | | 10.0000 | nonpar | .99 | ** |
| Barium, Total | ug/L | MW-38A | 27 | 11 | 38 | 213.2222 | 18.3436 | 216.0000 | 204.0000 | 302.3628 | 279.3829 | 332.4555 | normal | | |

N(back) and N(mon) = Non-outlier measurements in the background and monitoring periods.
N(tot) = All independent measurements for that constituent and well.
For transformed data, mean and SD in transformed units and control limit in original units.
Conf = confidence level for passing initial test or one verification resample (nonparametric test only).
* - Insufficient Data.
** - Detection Frequency < 25%.
*** - Zero Variance.

## Table 1

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

| Constituent | Units | Well | N(back) | N(mon) | N(tot) | Mean | SD | R(i-1) | R(i) | S(i-1) | S(i) | Limit | Type | Conf | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Beryllium, Total | ug/L | MW-38A | 27 | 11 | 38 | | | 4.0000 | 4.0000 | | | 4.0000 | nonpar | .99 | ** |
| Cadmium, Total | ug/L | MW-38A | 27 | 11 | 38 | | | 5.0000 | 5.0000 | | | 5.0000 | nonpar | .99 | ** |
| Chromium, Total | ug/L | MW-38A | 27 | 11 | 38 | | | 10.0000 | 10.0000 | | | 10.0000 | nonpar | .99 | ** |
| Cobalt, Total | ug/L | MW-38A | 27 | 12 | 39 | | | 2.0000 | 2.0000 | | | 10.0000 | nonpar | .99 | ** |
| Copper, Total | ug/L | MW-38A | 27 | 11 | 38 | | | 10.0000 | 10.0000 | | | 10.0000 | nonpar | .99 | ** |
| Lead, Total | ug/L | MW-38A | 27 | 11 | 38 | | | 10.0000 | 10.0000 | | | 10.0000 | nonpar | .99 | ** |
| Nickel, Total | ug/L | MW-38A | 27 | 11 | 38 | 23.2074 | 7.5466 | 31.7000 | 31.5000 | 46.3341 | 48.9667 | 72.2601 | normal | | |
| Selenium, Total | ug/L | MW-38A | 27 | 11 | 38 | | | 10.0000 | 10.0000 | | | 10.0000 | nonpar | .99 | ** |
| Silver, Total | ug/L | MW-38A | 27 | 11 | 38 | | | 10.0000 | 10.0000 | | | 10.0000 | nonpar | .99 | ** |
| Thallium, Total | ug/L | MW-38A | 27 | 11 | 38 | | | 2.0000 | 2.0000 | | | 2.0000 | nonpar | .99 | ** |
| Vanadium, Total | ug/L | MW-38A | 27 | 11 | 38 | | | 20.0000 | 20.0000 | | | 20.0000 | nonpar | .99 | ** |
| Zinc, Total | ug/L | MW-38A | 27 | 11 | 38 | | | 50.0000 | 50.0000 | | | 20.0000 | nonpar | .99 | ** |
| Antimony, Total | ug/L | MW-39A | 20 | 11 | 31 | | | 6.0000 | 6.0000 | | | 6.0000 | nonpar | .99 | ** |
| Arsenic, Total | ug/L | MW-39A | 20 | 11 | 31 | | | 10.0000 | 10.0000 | | | 10.0000 | nonpar | .99 | ** |
| Barium, Total | ug/L | MW-39A | 20 | 11 | 31 | 290.1000 | 61.5603 | 275.0000 | 267.0000 | 290.1000 | 290.1000 | 690.2421 | normal | | |
| Beryllium, Total | ug/L | MW-39A | 20 | 11 | 31 | | | 4.0000 | 4.0000 | | | 4.0000 | nonpar | .99 | ** |
| Cadmium, Total | ug/L | MW-39A | 20 | 11 | 31 | | | 5.0000 | 5.0000 | | | 5.0000 | nonpar | .99 | ** |
| Chromium, Total | ug/L | MW-39A | 19 | 11 | 31 | | | 10.0000 | 10.0000 | | | 10.0000 | nonpar | .99 | ** |
| Cobalt, Total | ug/L | MW-39A | 20 | 11 | 31 | | | 2.0000 | 2.0000 | | | 2.8000 | nonpar | .99 | ** |
| Copper, Total | ug/L | MW-39A | 19 | 11 | 31 | | | 10.0000 | 10.0000 | | | 10.0000 | nonpar | .99 | ** |
| Lead, Total | ug/L | MW-39A | 19 | 11 | 31 | | | 10.0000 | 10.0000 | | | 10.0000 | nonpar | .99 | ** |
| Nickel, Total | ug/L | MW-39A | 19 | 11 | 31 | | | 10.0000 | 10.0000 | | | 10.0000 | nonpar | .99 | ** |
| Selenium, Total | ug/L | MW-39A | 20 | 11 | 31 | | | 10.0000 | 10.0000 | | | 10.0000 | nonpar | .99 | ** |
| Silver, Total | ug/L | MW-39A | 20 | 11 | 31 | | | 10.0000 | 10.0000 | | | 10.0000 | nonpar | .99 | ** |
| Thallium, Total | ug/L | MW-39A | 20 | 11 | 31 | | | 2.0000 | 2.0000 | | | 2.0000 | nonpar | .99 | ** |
| Vanadium, Total | ug/L | MW-39A | 19 | 11 | 31 | | | 20.0000 | 20.0000 | | | 20.0000 | nonpar | .99 | ** |
| Zinc, Total | ug/L | MW-39A | 19 | 11 | 31 | | | 50.0000 | 50.0000 | | | 20.0000 | nonpar | .99 | ** |
| Antimony, Total | ug/L | MW-40A | 16 | 11 | 27 | | | 6.0000 | 6.0000 | | | 6.0000 | nonpar | .99 | ** |
| Arsenic, Total | ug/L | MW-40A | 16 | 12 | 28 | | | 10.0000 | 10.0000 | | | 10.0000 | nonpar | .99 | ** |
| Barium, Total | ug/L | MW-40A | 16 | 11 | 27 | 273.3125 | 41.3549 | 221.0000 | 274.0000 | 273.3125 | 273.3125 | 542.1195 | normal | | |
| Beryllium, Total | ug/L | MW-40A | 16 | 11 | 27 | | | 4.0000 | 4.0000 | | | 4.0000 | nonpar | .99 | ** |
| Cadmium, Total | ug/L | MW-40A | 16 | 11 | 27 | | | 5.0000 | 5.0000 | | | 5.0000 | nonpar | .99 | ** |
| Chromium, Total | ug/L | MW-40A | 16 | 11 | 27 | | | 10.0000 | 10.0000 | | | 11.0000 | nonpar | .99 | ** |
| Cobalt, Total | ug/L | MW-40A | 16 | 11 | 27 | | | 2.0000 | 2.0000 | | | 2.8000 | nonpar | .99 | ** |
| Copper, Total | ug/L | MW-40A | 16 | 11 | 27 | | | 10.0000 | 10.0000 | | | 10.0000 | nonpar | .99 | ** |
| Lead, Total | ug/L | MW-40A | 16 | 11 | 27 | | | 10.0000 | 10.0000 | | | 10.0000 | nonpar | .99 | ** |
| Nickel, Total | ug/L | MW-40A | 16 | 11 | 27 | | | 10.0000 | 10.0000 | | | 10.0000 | nonpar | .99 | ** |
| Selenium, Total | ug/L | MW-40A | 16 | 11 | 27 | | | 10.0000 | 10.0000 | | | 10.0000 | nonpar | .99 | ** |
| Silver, Total | ug/L | MW-40A | 16 | 11 | 27 | | | 10.0000 | 10.0000 | | | 10.0000 | nonpar | .99 | ** |
| Thallium, Total | ug/L | MW-40A | 16 | 11 | 27 | | | 2.0000 | 2.0000 | | | 2.0000 | nonpar | .99 | ** |
| Vanadium, Total | ug/L | MW-40A | 16 | 11 | 27 | | | 20.0000 | 20.0000 | | | 20.0000 | nonpar | .99 | ** |
| Zinc, Total | ug/L | MW-40A | 16 | 11 | 27 | | | 50.0000 | 50.0000 | | | 27.0000 | nonpar | .99 | ** |
| Antimony, Total | ug/L | MW-41A | 2 | 0 | 2 | | | | | | | | | | * |
| Arsenic, Total | ug/L | MW-41A | 2 | 0 | 2 | | | | | | | | | | * |
| Barium, Total | ug/L | MW-41A | 2 | 0 | 2 | | | | | | | | | | * |
| Beryllium, Total | ug/L | MW-41A | 2 | 0 | 2 | | | | | | | | | | * |

N(back) and N(mon) = Non-outlier measurements in the background and monitoring periods.
N(tot) = All independent measurements for that constituent and well.
For transformed data, mean and SD in transformed units and control limit in original units.
Conf = confidence level for passing initial test or one verification resample (nonparametric test only).
* - Insufficient Data.
** - Detection Frequency < 25%.
*** - Zero Variance.

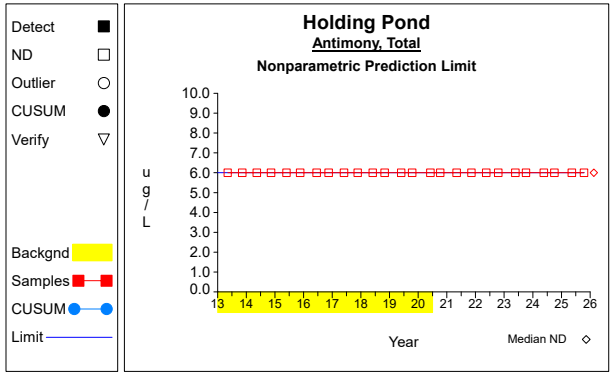
## Table 1

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

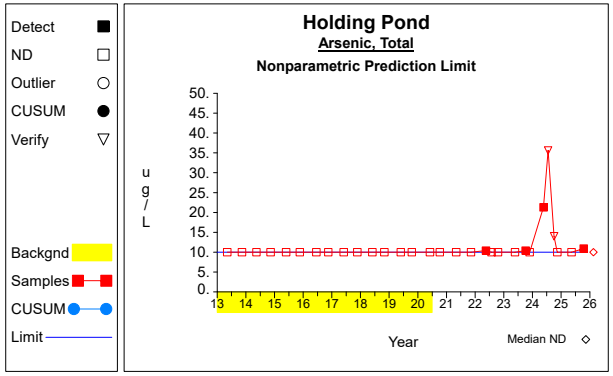
| Constituent | Units | Well | N(back) | N(mon) | N(tot) | Mean | SD | R(i-1) | R(i) | S(i-1) | S(i) | Limit | Type | Conf | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Cadmium, Total | ug/L | MW-41A | 2 | 0 | 2 | | | | | | | | | | * |
| Chromium, Total | ug/L | MW-41A | 2 | 0 | 2 | | | | | | | | | | * |
| Cobalt, Total | ug/L | MW-41A | 2 | 0 | 2 | | | | | | | | | | * |
| Copper, Total | ug/L | MW-41A | 2 | 0 | 2 | | | | | | | | | | * |
| Lead, Total | ug/L | MW-41A | 2 | 0 | 2 | | | | | | | | | | * |
| Nickel, Total | ug/L | MW-41A | 2 | 0 | 2 | | | | | | | | | | * |
| Selenium, Total | ug/L | MW-41A | 2 | 0 | 2 | | | | | | | | | | * |
| Silver, Total | ug/L | MW-41A | 2 | 0 | 2 | | | | | | | | | | * |
| Thallium, Total | ug/L | MW-41A | 2 | 0 | 2 | | | | | | | | | | * |
| Vanadium, Total | ug/L | MW-41A | 2 | 0 | 2 | | | | | | | | | | * |
| Zinc, Total | ug/L | MW-41A | 2 | 0 | 2 | | | | | | | | | | * |

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.

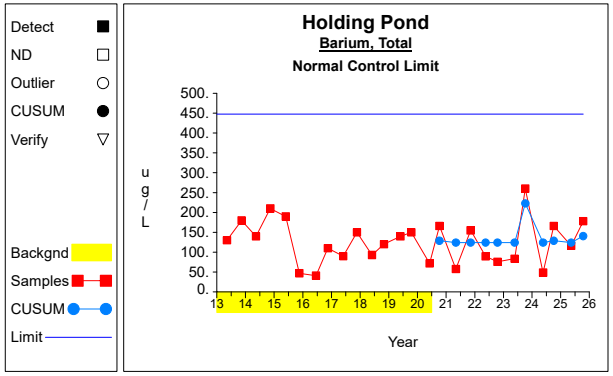
# Intra-Well Control Charts / Prediction Limits



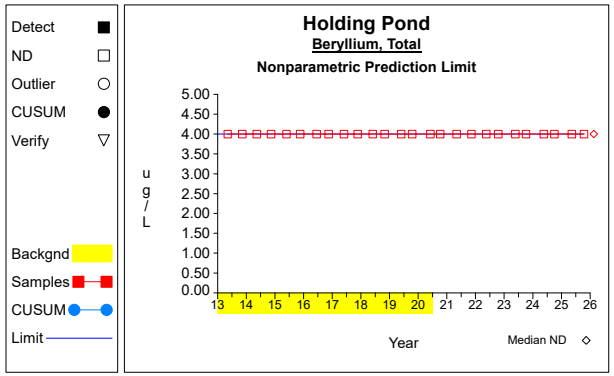

Graph 1



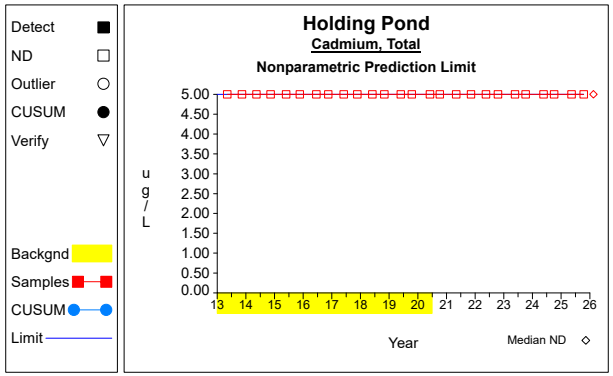

Graph 2



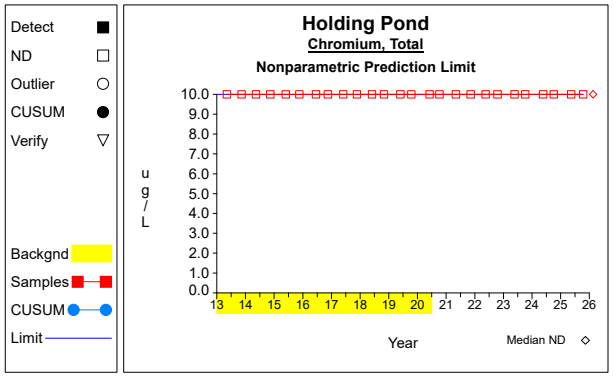

Graph 3



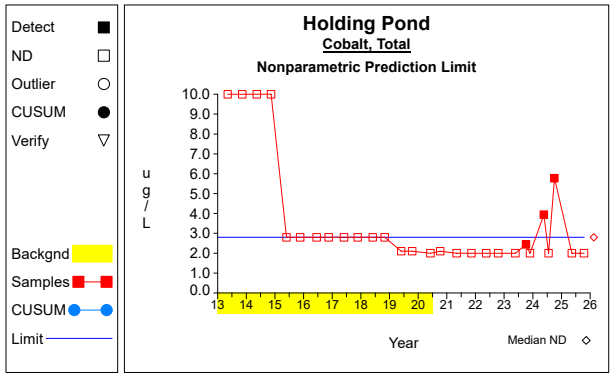

Graph 4



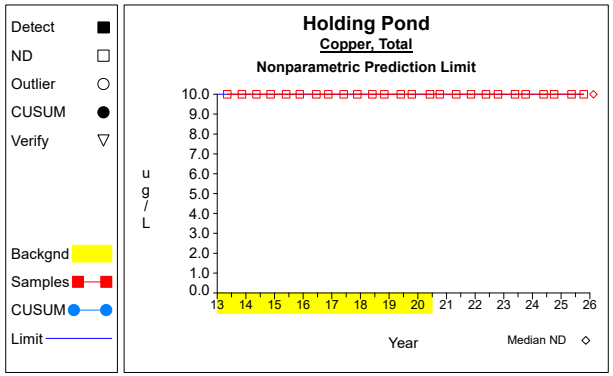

Graph 5



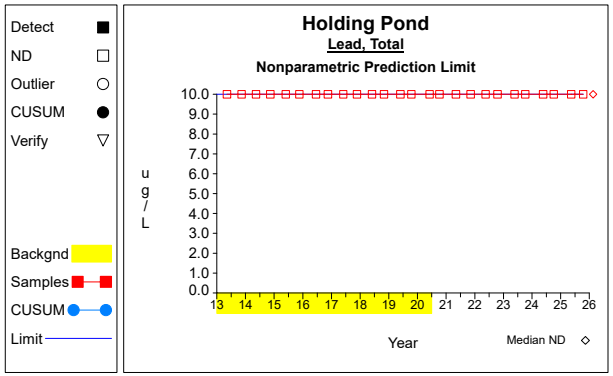

Graph 6




Graph 7



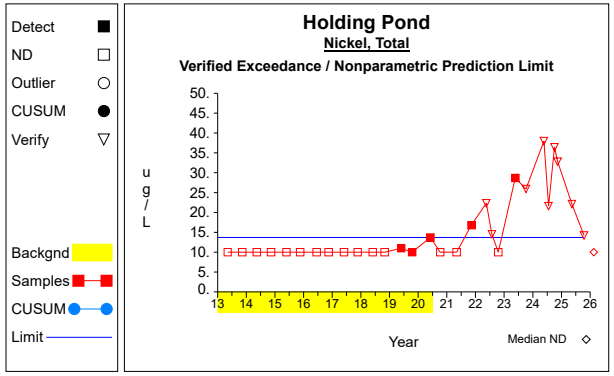

Graph 8



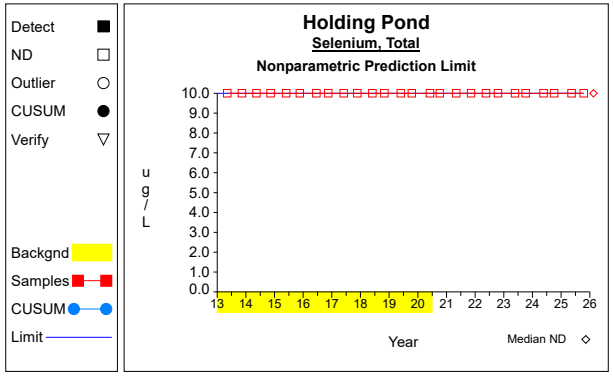

Graph 9

Prepared by: Otter Creek Environmental

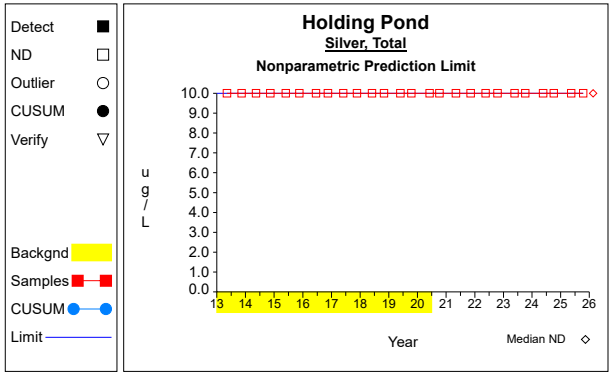
# Intra-Well Control Charts / Prediction Limits



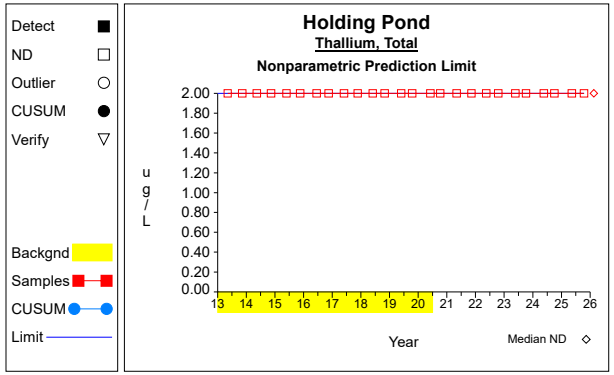

Graph 10



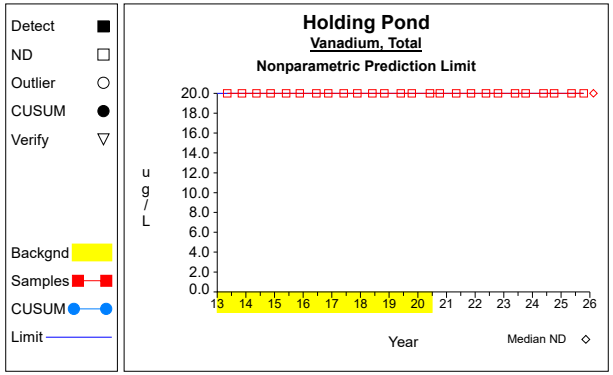

Graph 11



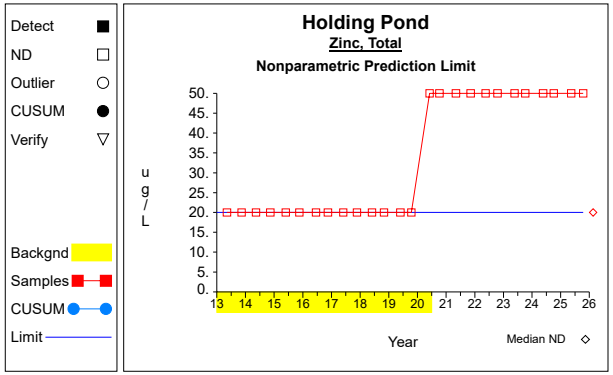

Graph 12




Graph 13

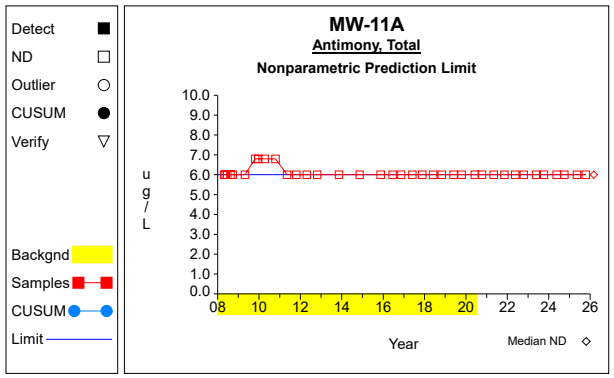



Graph 14

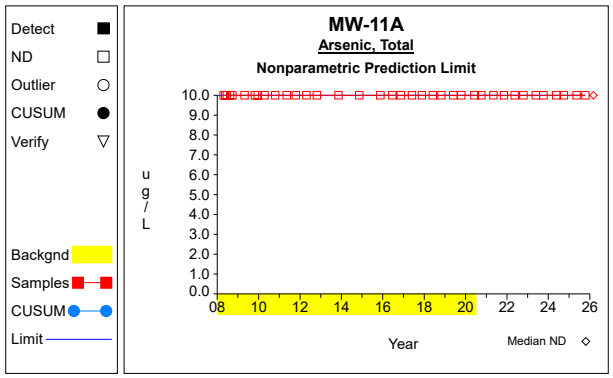



Graph 15

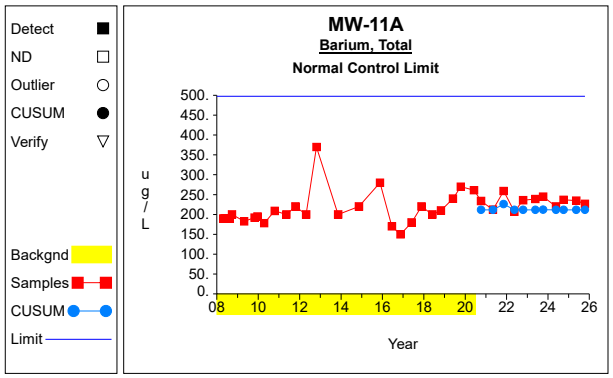
# Intra-Well Control Charts / Prediction Limits



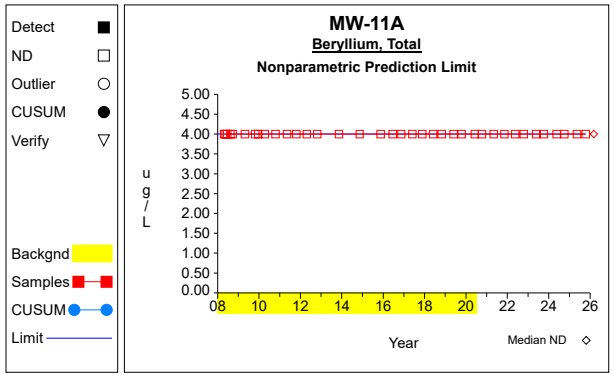

Graph 16



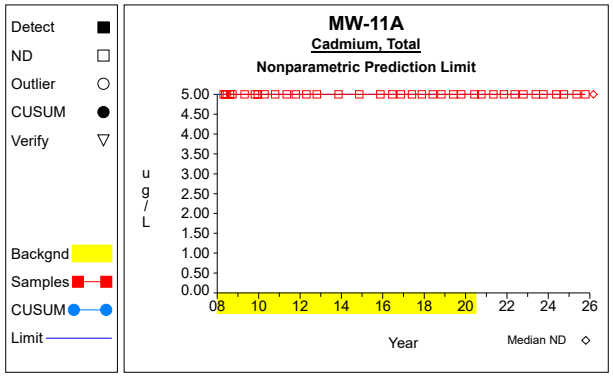

Graph 17



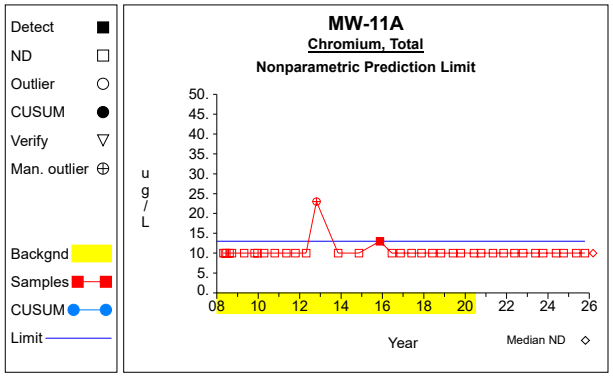

Graph 18



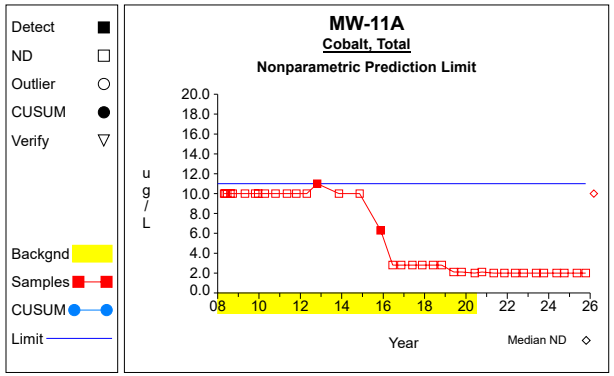

Graph 19



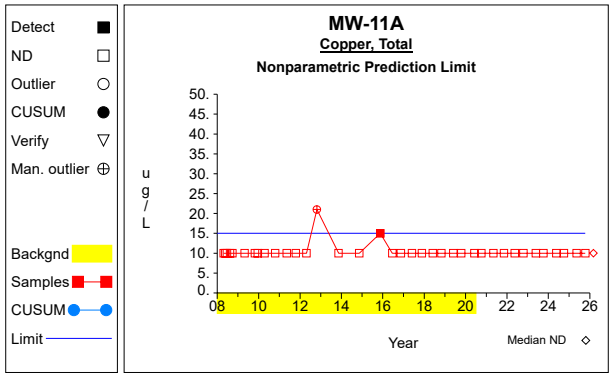

Graph 20



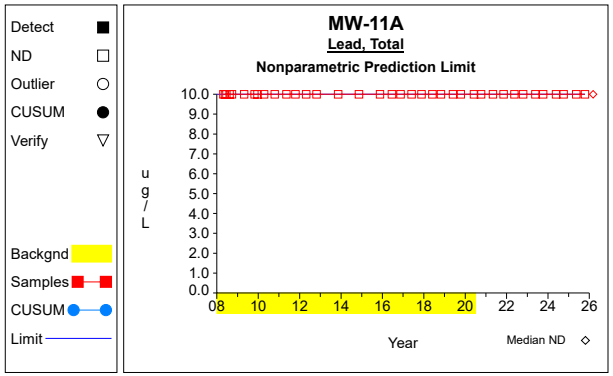

Graph 21




Graph 22



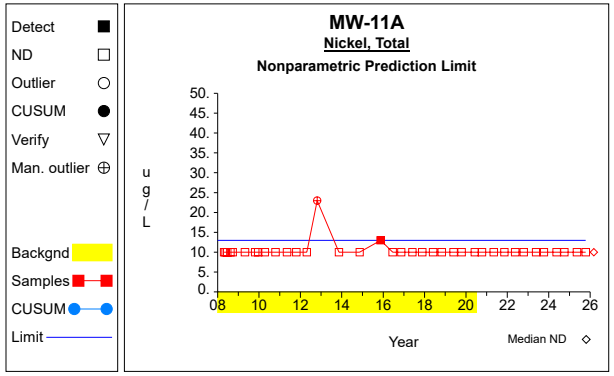

Graph 23



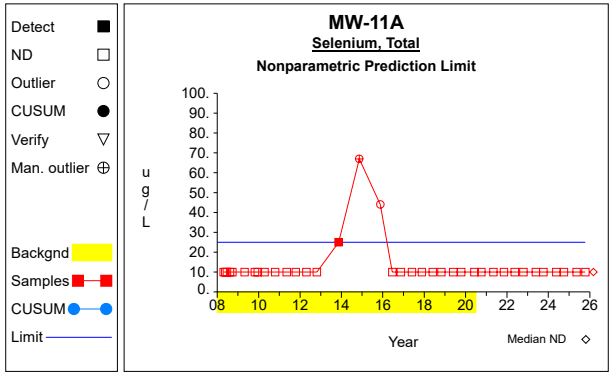

Graph 24

Prepared by: Otter Creek Environmental

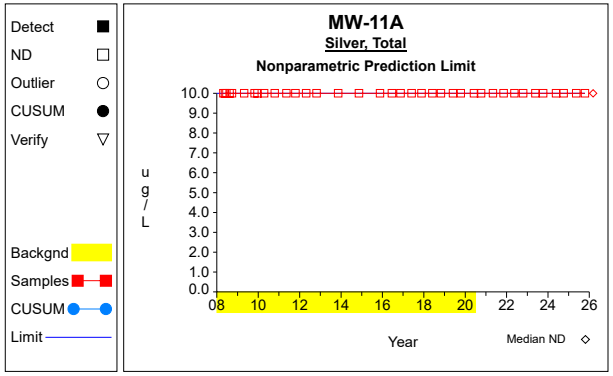
# Intra-Well Control Charts / Prediction Limits



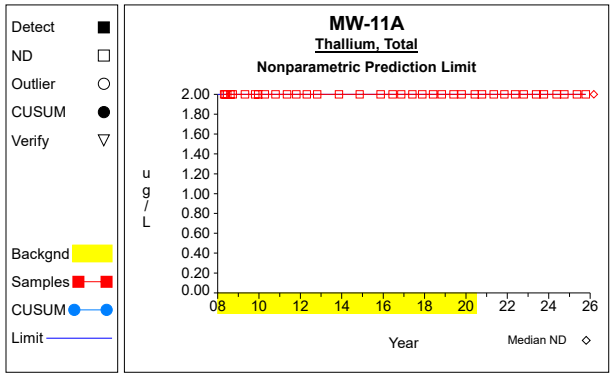

Graph 25



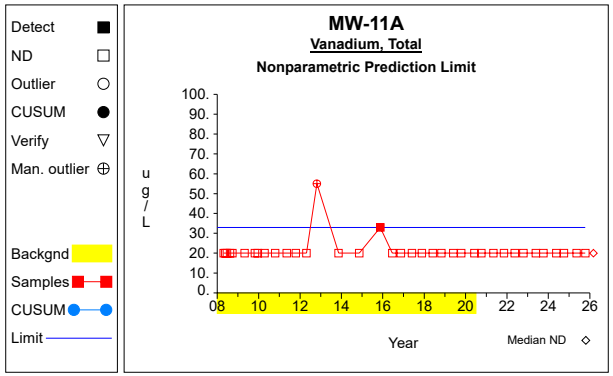

Graph 26



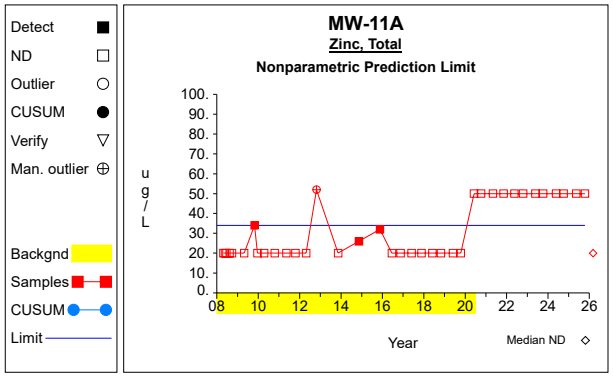

Graph 27




Graph 28

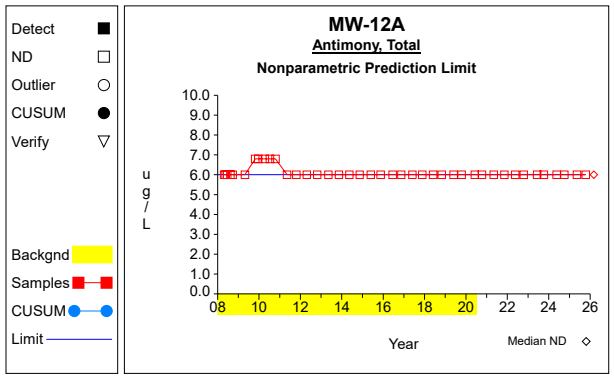



Graph 29

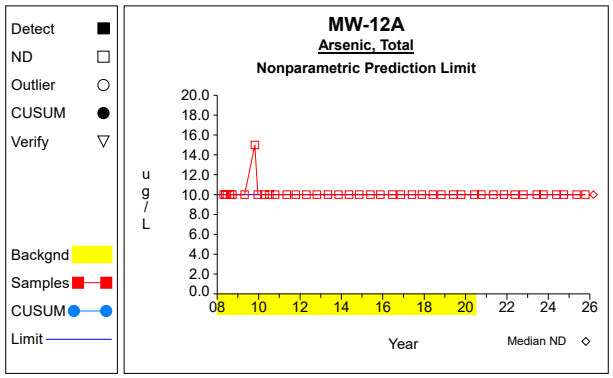



Graph 30

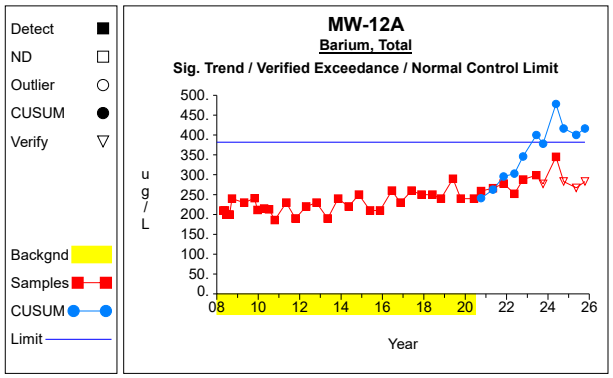
# Intra-Well Control Charts / Prediction Limits



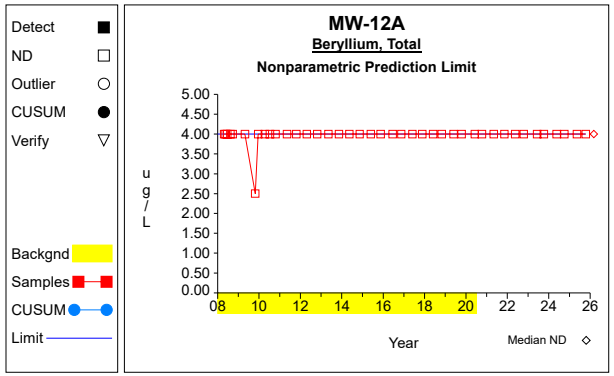

Graph 31



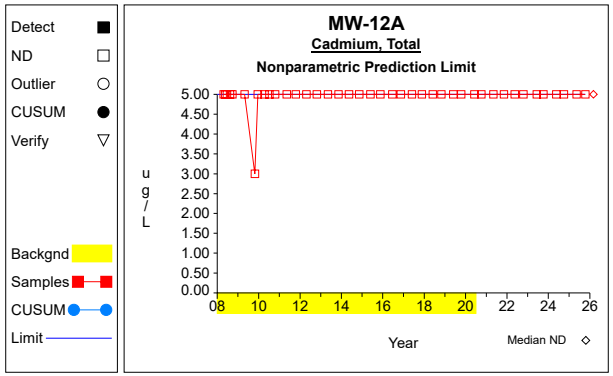

Graph 32



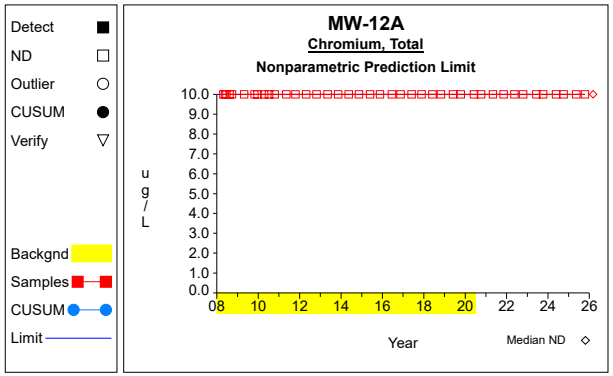

Graph 33



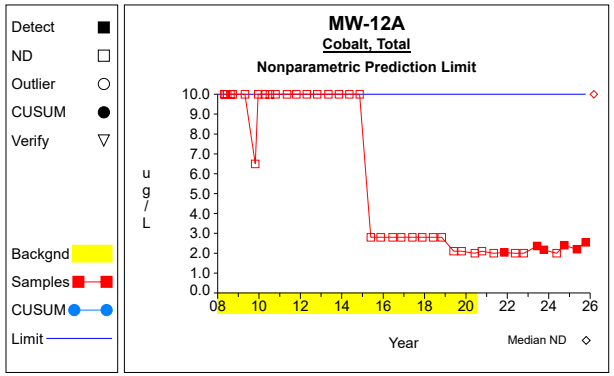

Graph 34



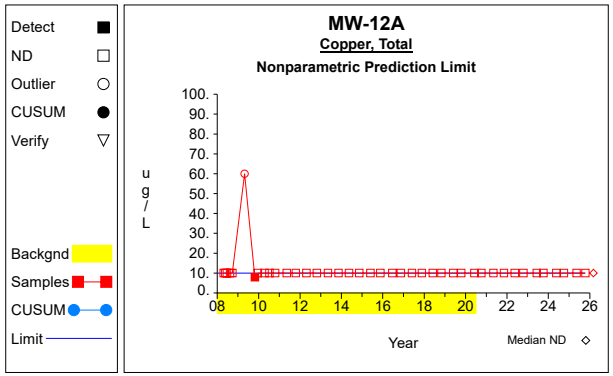

Graph 35



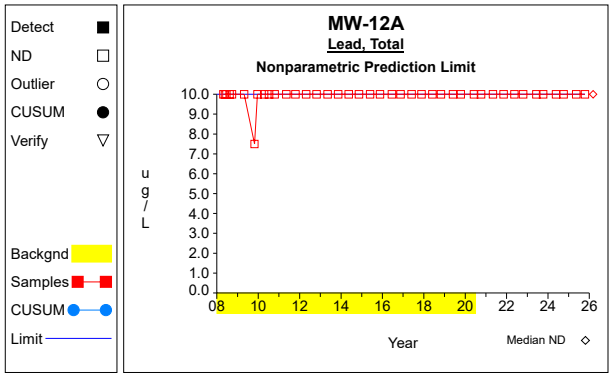

Graph 36




Graph 37



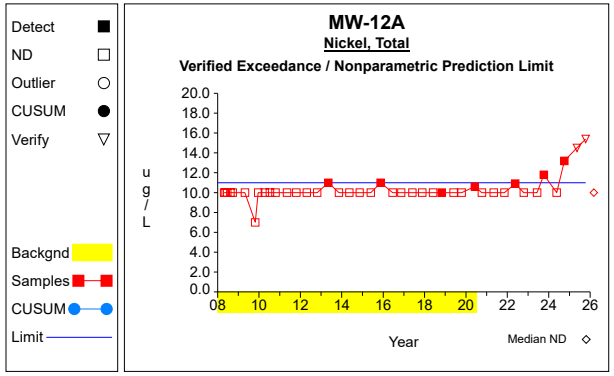

Graph 38



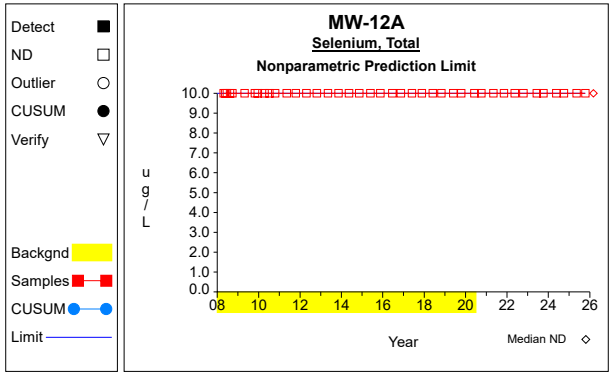

Graph 39

Prepared by: Otter Creek Environmental

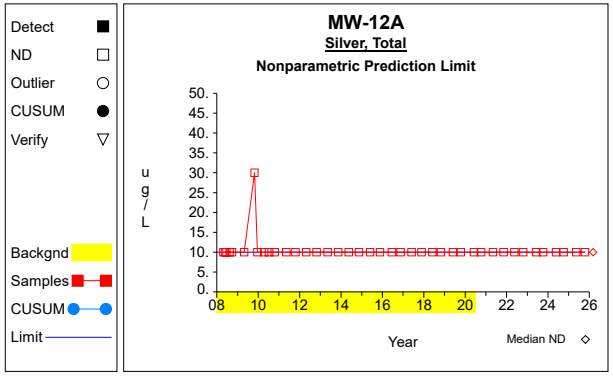
# Intra-Well Control Charts / Prediction Limits



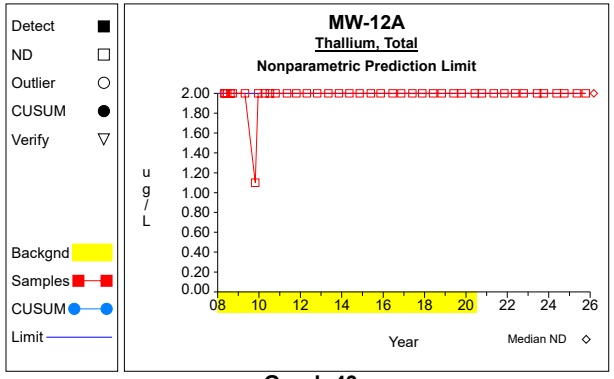

Graph 40



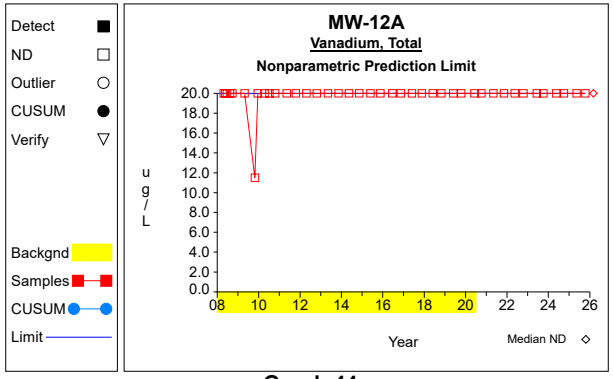

Graph 41



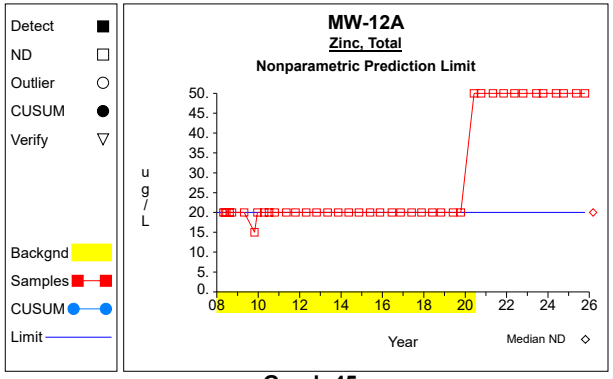

Graph 42




Graph 43

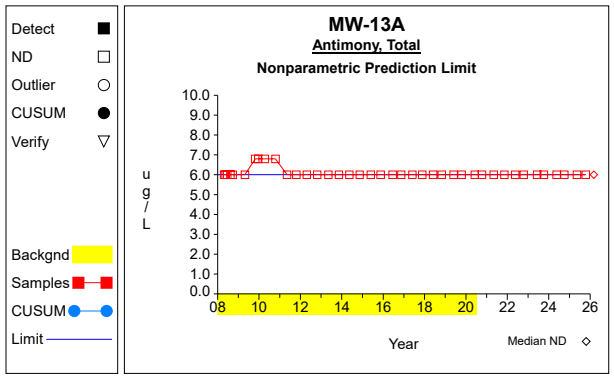



Graph 44

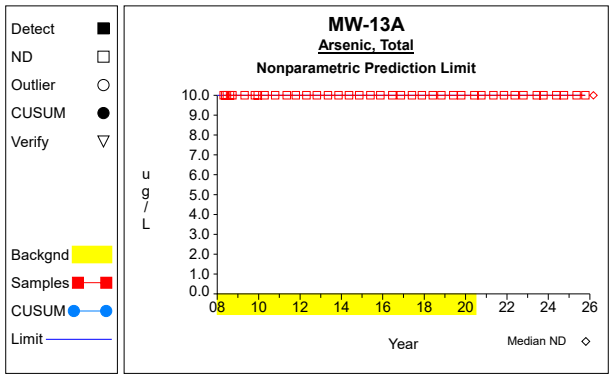



Graph 45

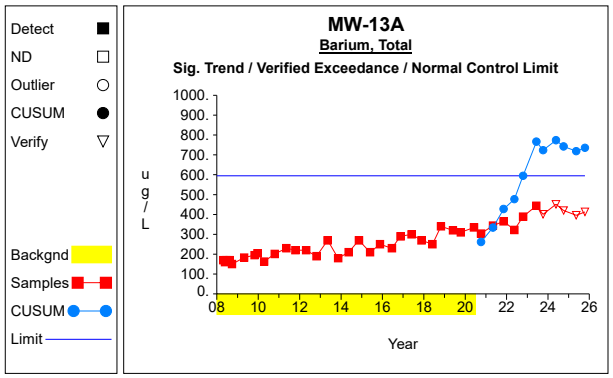
# Intra-Well Control Charts / Prediction Limits



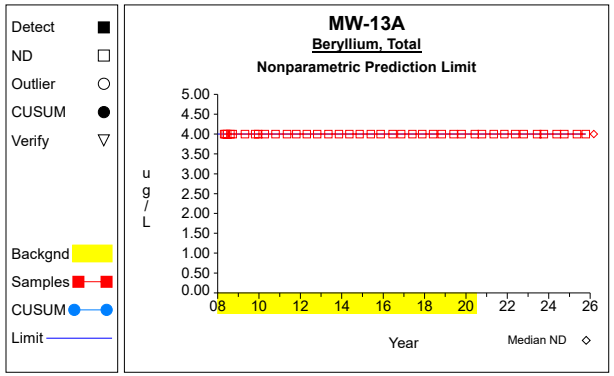

Graph 46



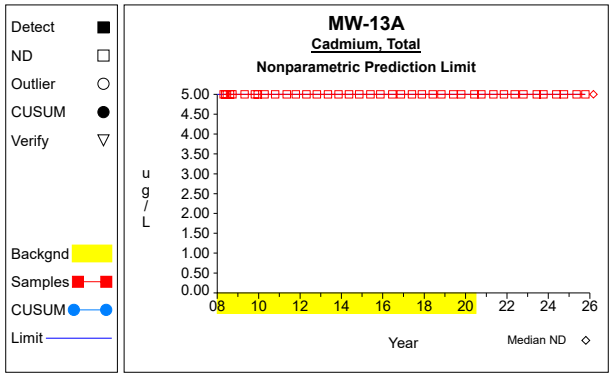

Graph 47



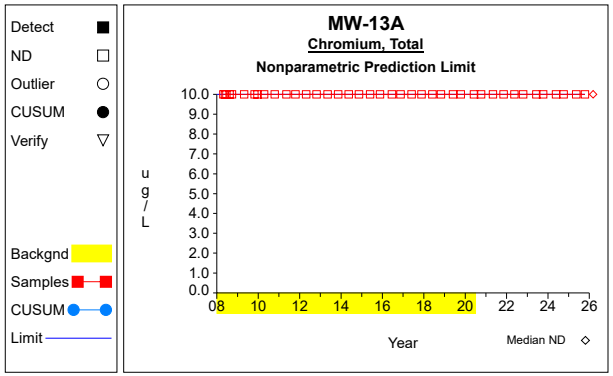

Graph 48



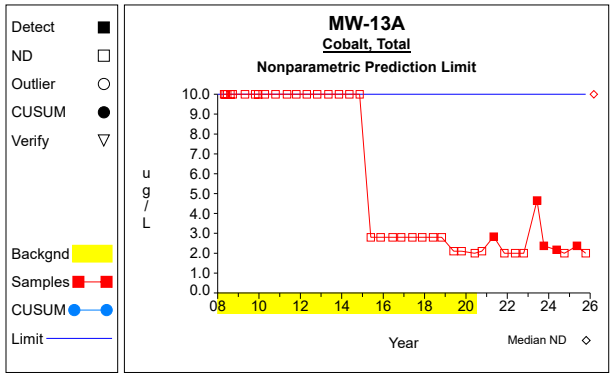

Graph 49



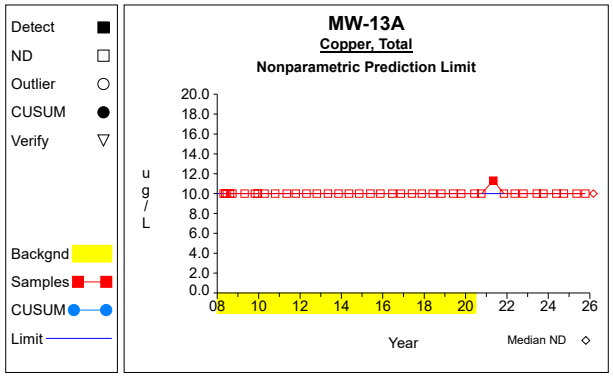

Graph 50



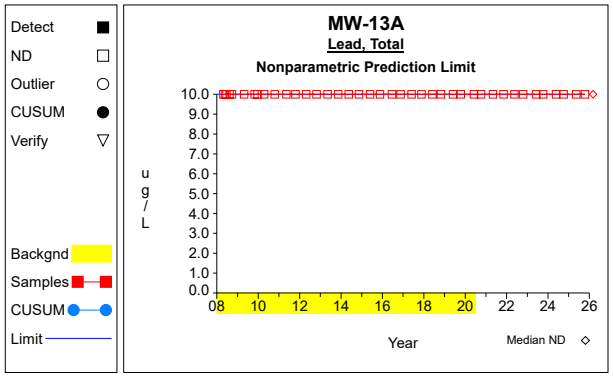

Graph 51




Graph 52



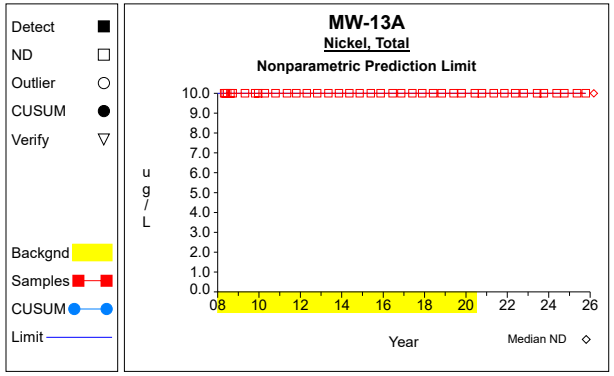

Graph 53



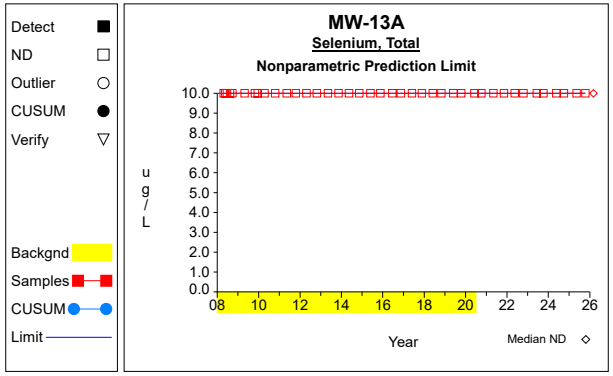

Graph 54

Prepared by: Otter Creek Environmental

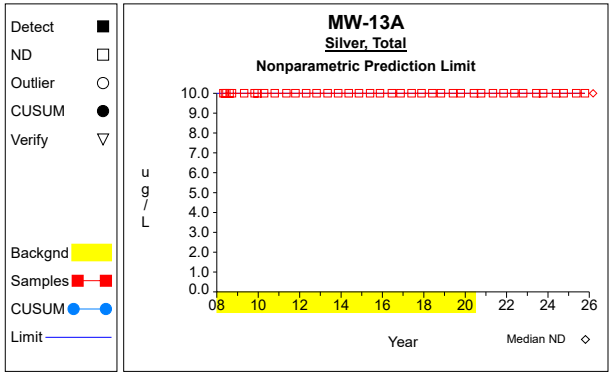
# Intra-Well Control Charts / Prediction Limits



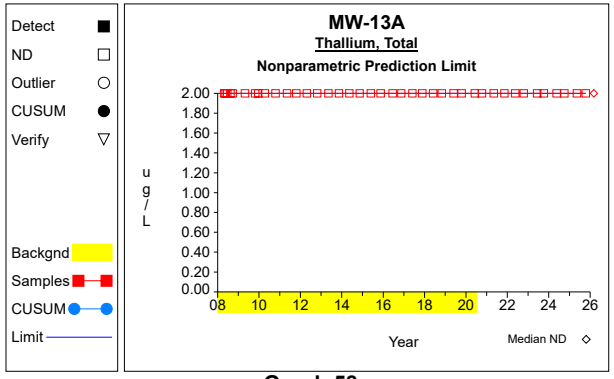

Graph 55



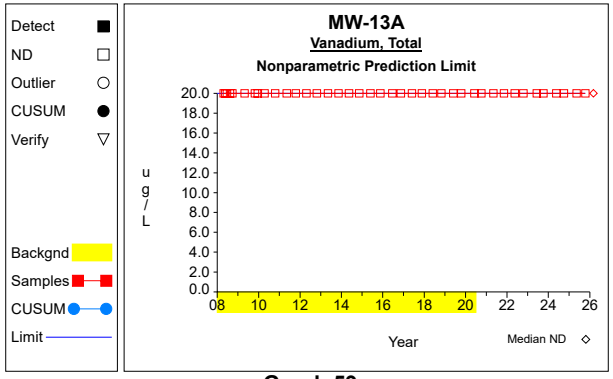

Graph 56



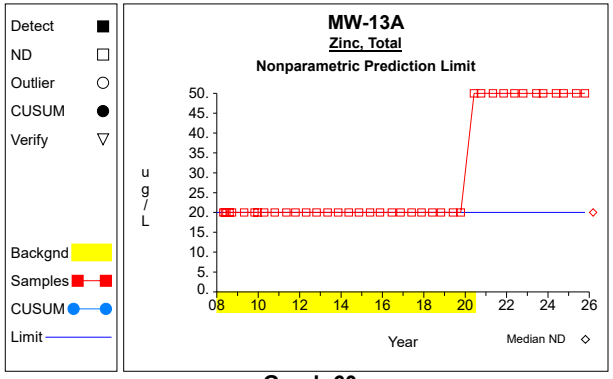

Graph 57




Graph 58

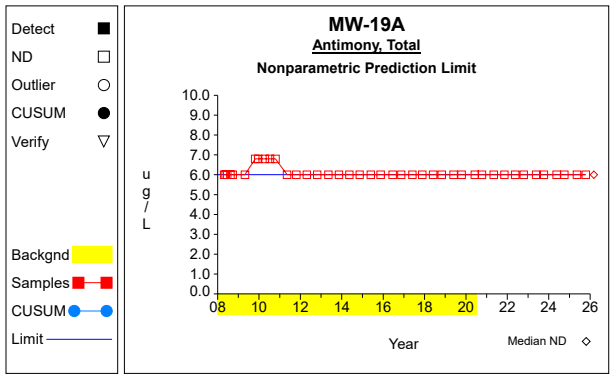



Graph 59

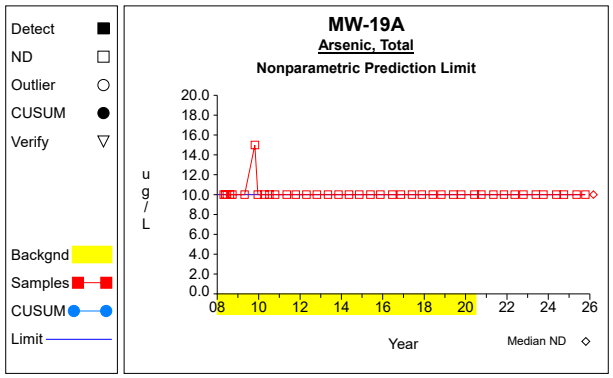



Graph 60

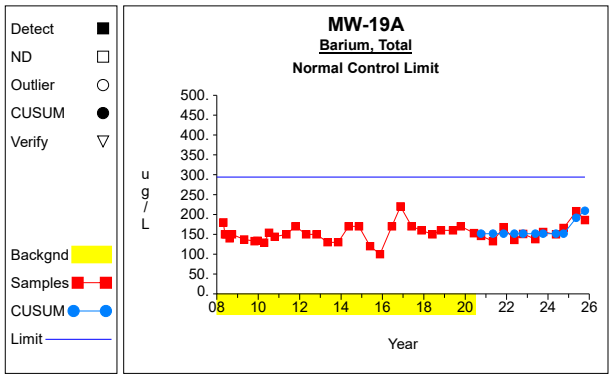
# Intra-Well Control Charts / Prediction Limits



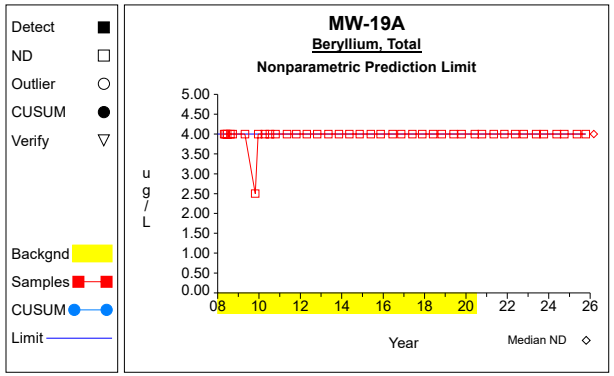

Graph 61



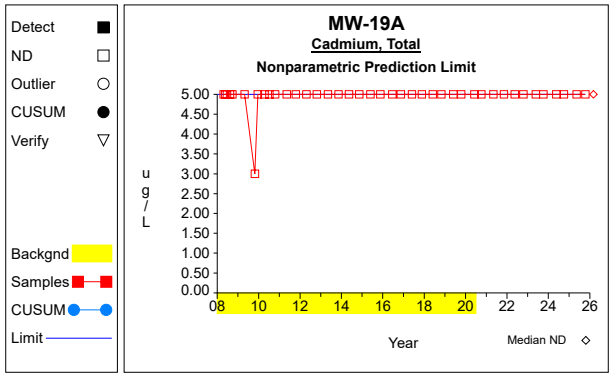

Graph 62



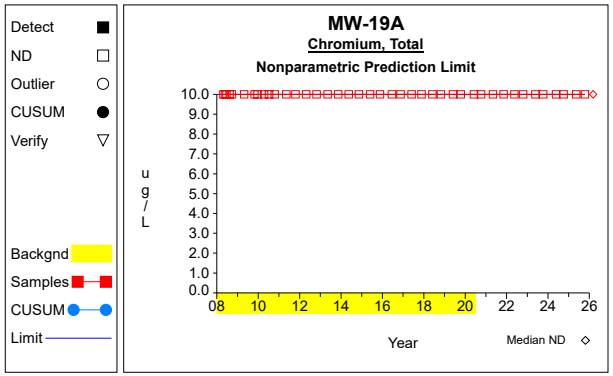

Graph 63



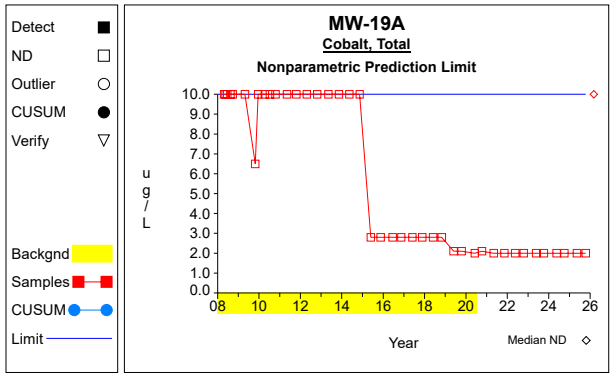

Graph 64



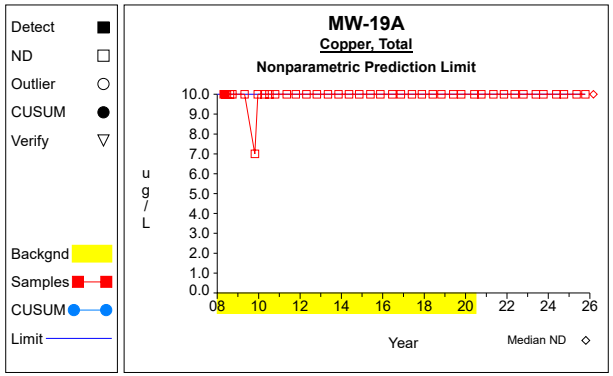

Graph 65



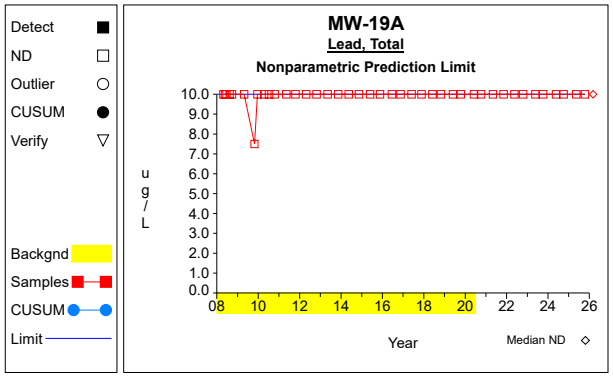

Graph 66




Graph 67



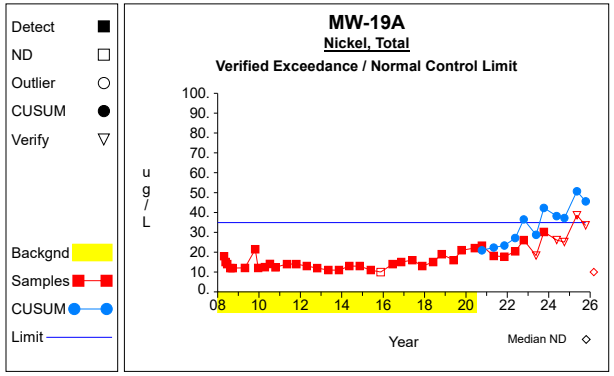

Graph 68



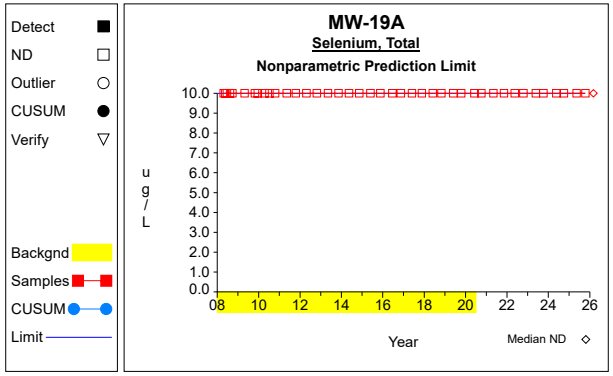

Graph 69

Prepared by: Otter Creek Environmental

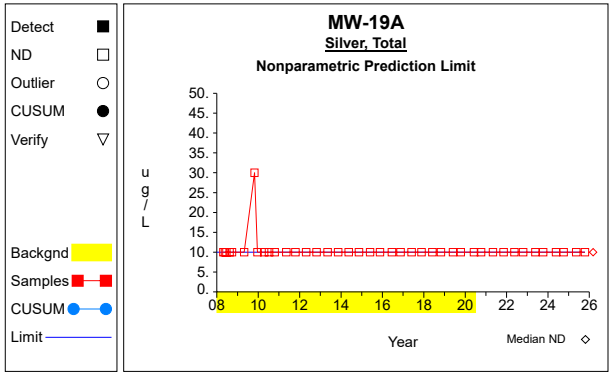
# Intra-Well Control Charts / Prediction Limits



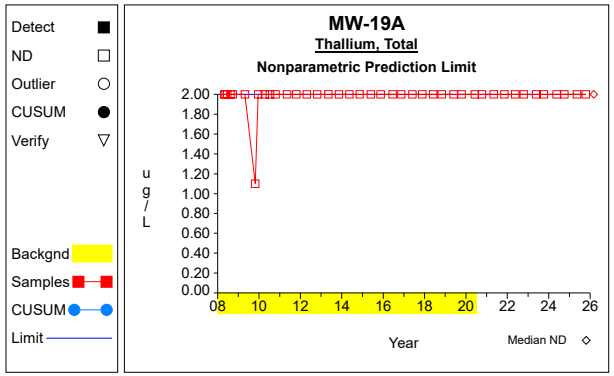

Graph 70



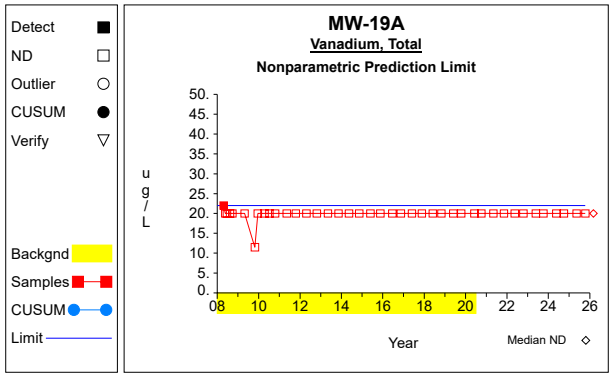

Graph 71



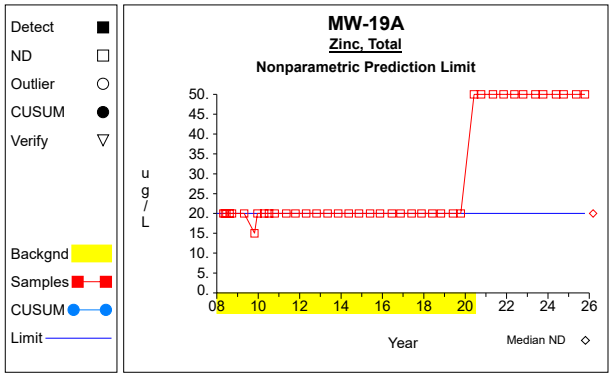

Graph 72




Graph 73

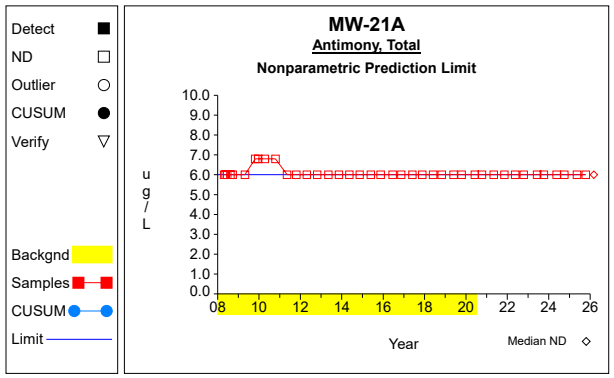



Graph 74

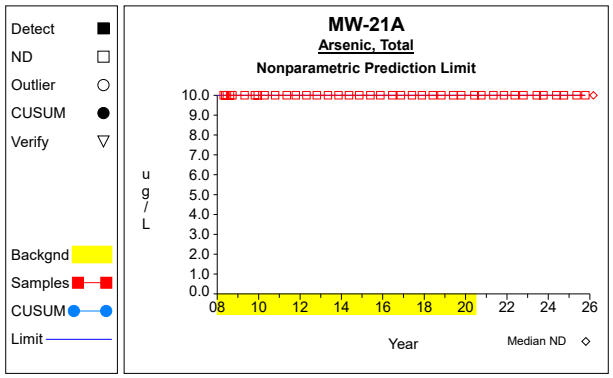



Graph 75

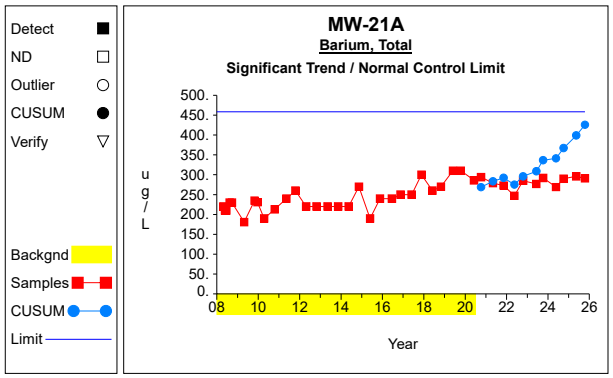
# Intra-Well Control Charts / Prediction Limits



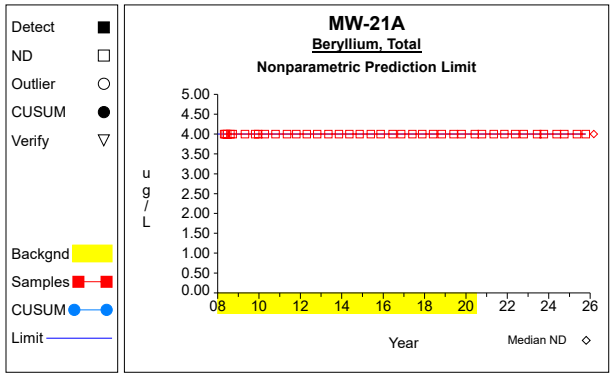

Graph 76



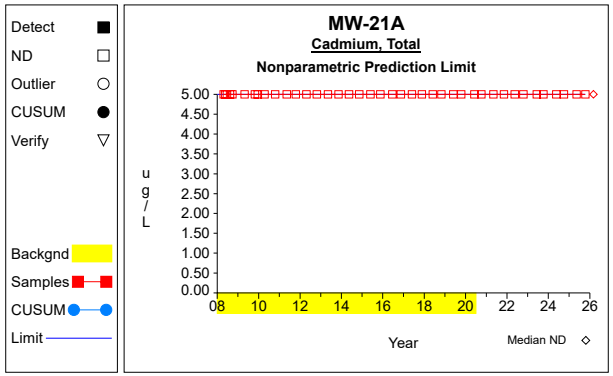

Graph 77



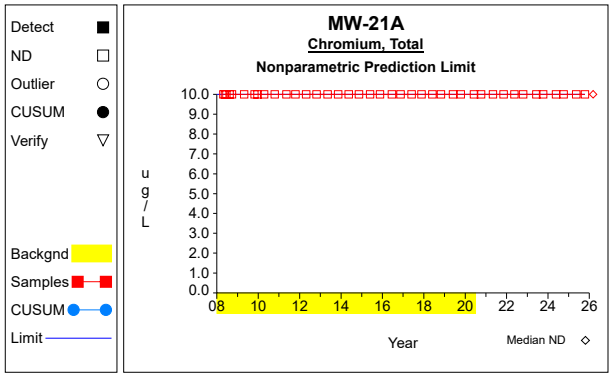

Graph 78



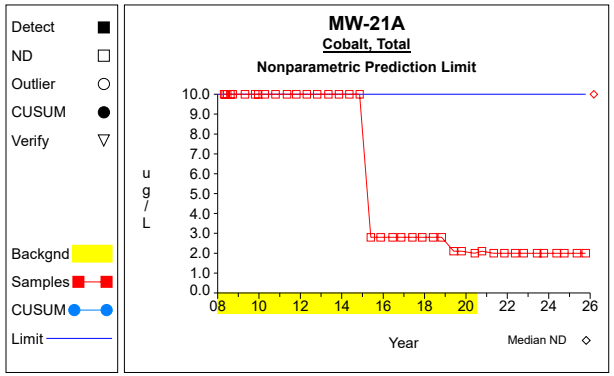

Graph 79



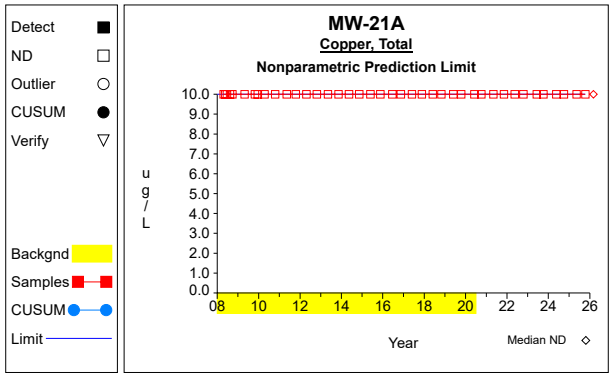

Graph 80



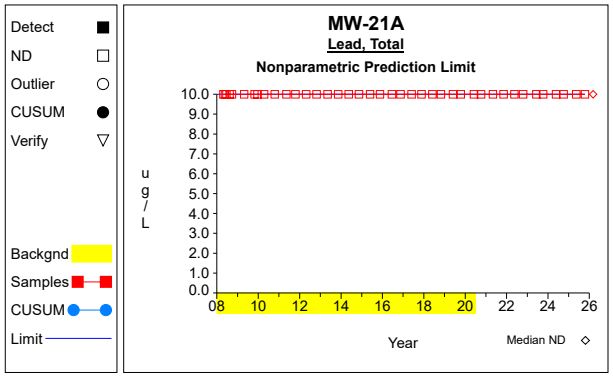

Graph 81




Graph 82

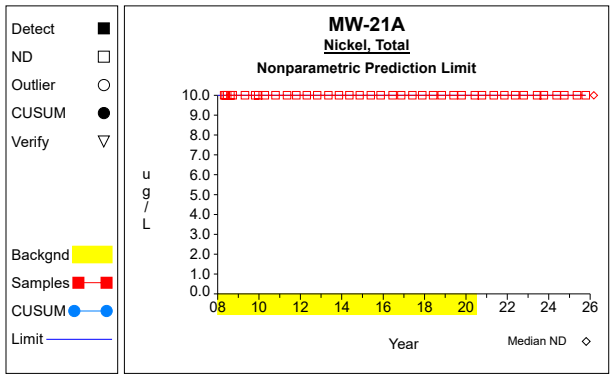



Graph 83

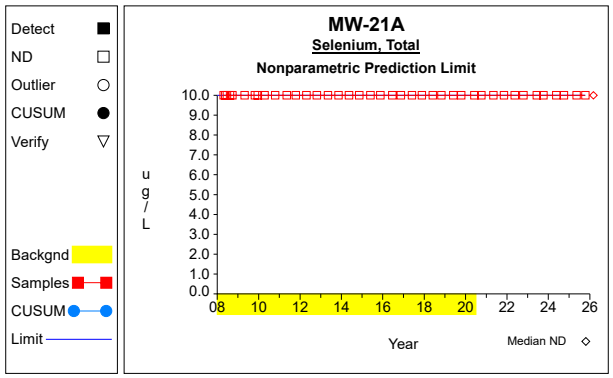



Graph 84

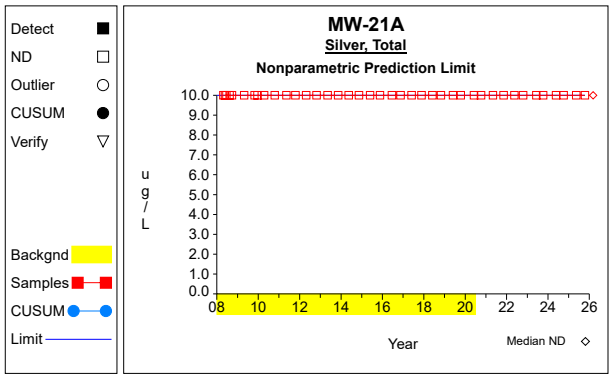
# Intra-Well Control Charts / Prediction Limits



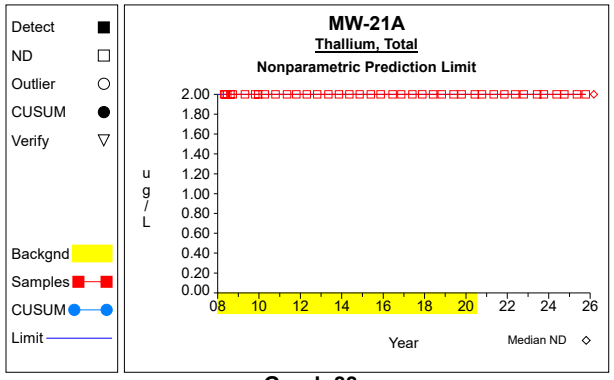

Graph 85



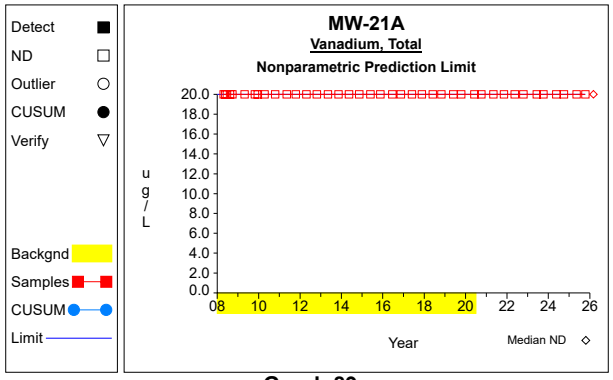

Graph 86



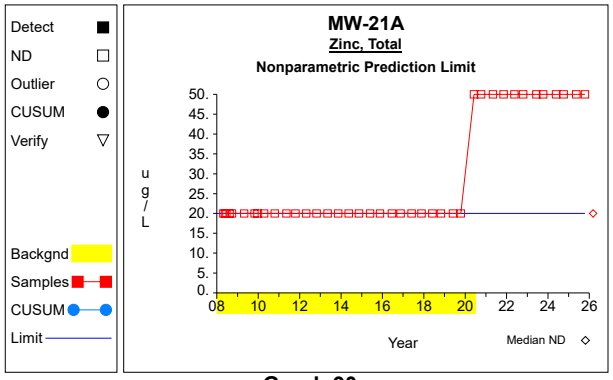

Graph 87




Graph 88

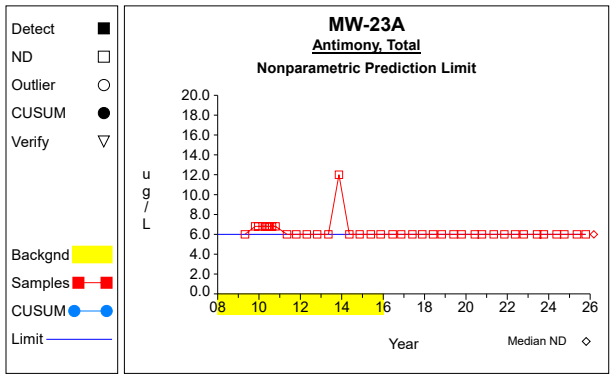



Graph 89

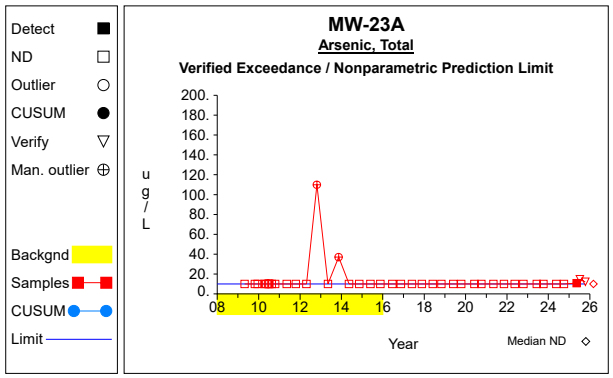



Graph 90

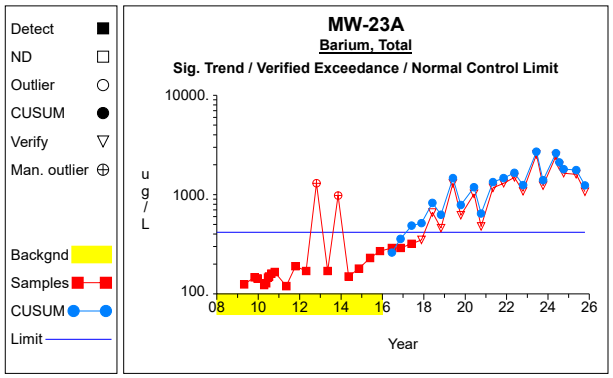
# Intra-Well Control Charts / Prediction Limits



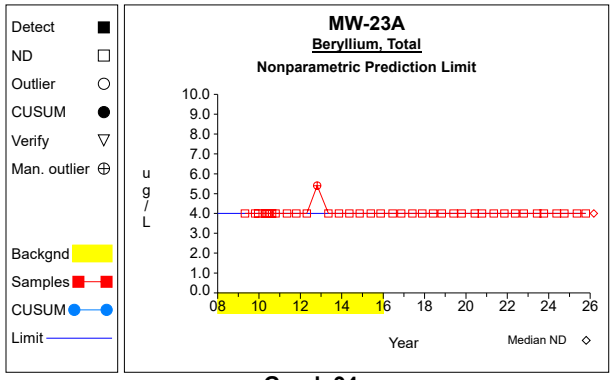

Graph 91



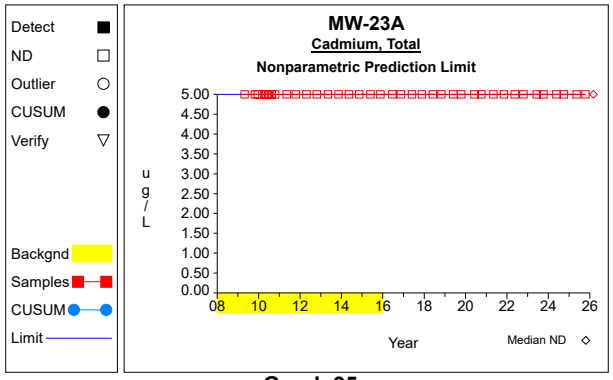

Graph 92



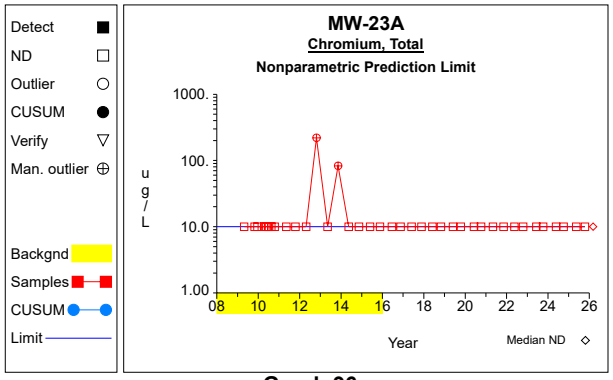

Graph 93



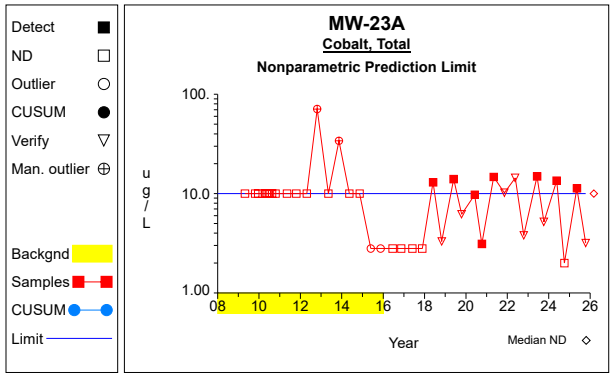

Graph 94



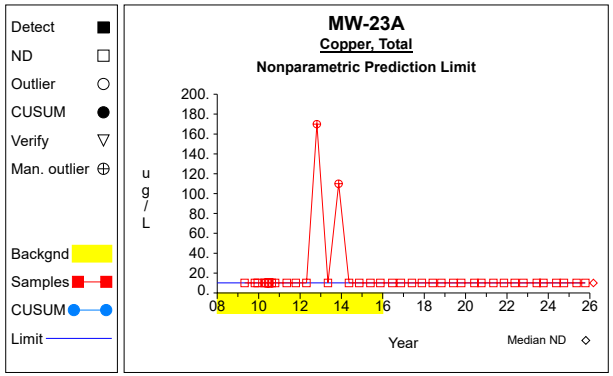

Graph 95



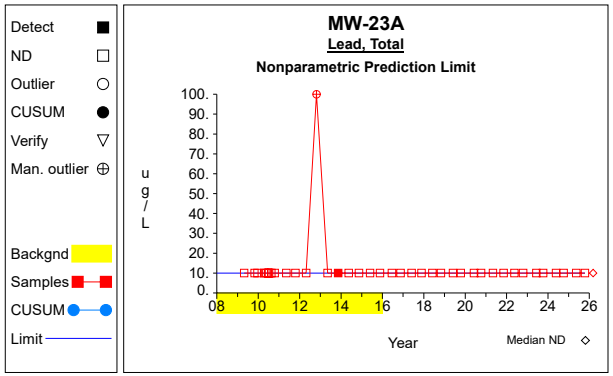

Graph 96




Graph 97



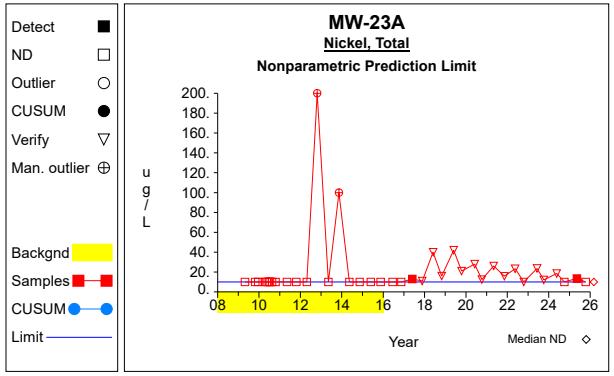

Graph 98



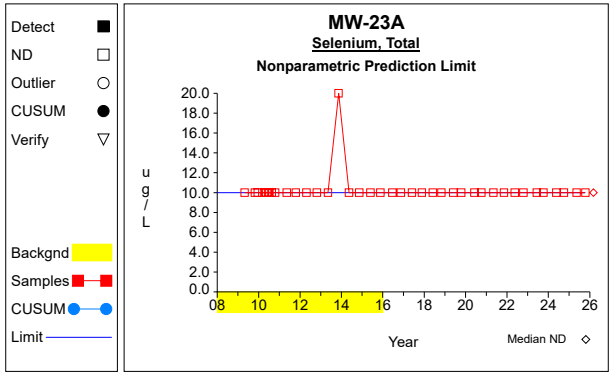

Graph 99

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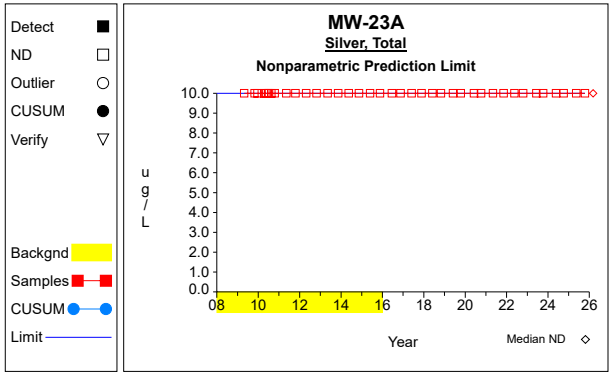
# Intra-Well Control Charts / Prediction Limits



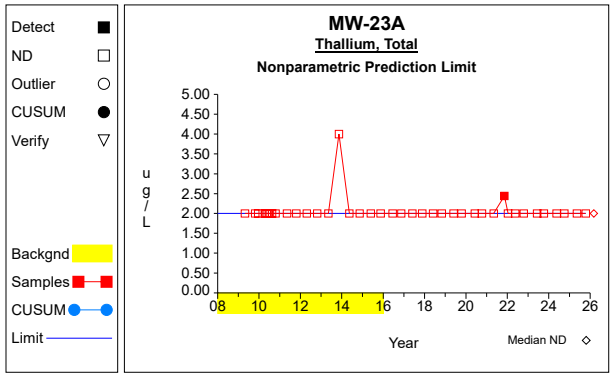

Graph 100



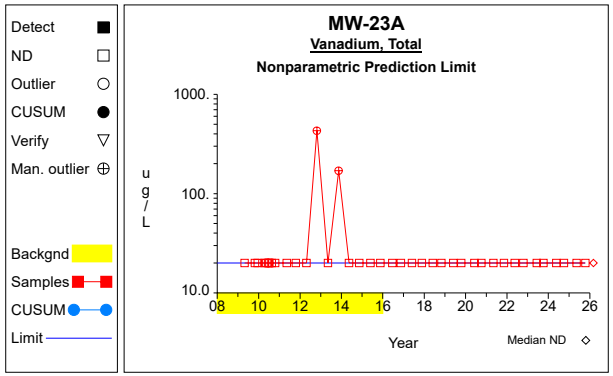

Graph 101



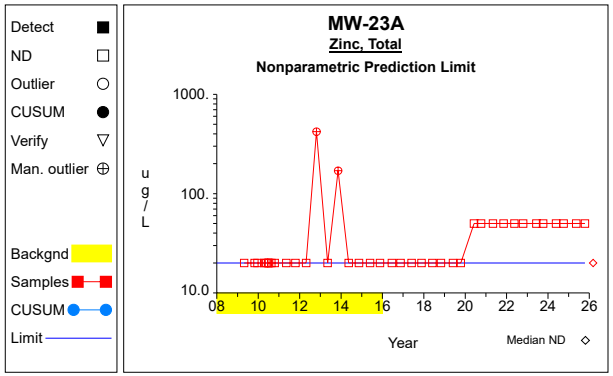

Graph 102




Graph 103

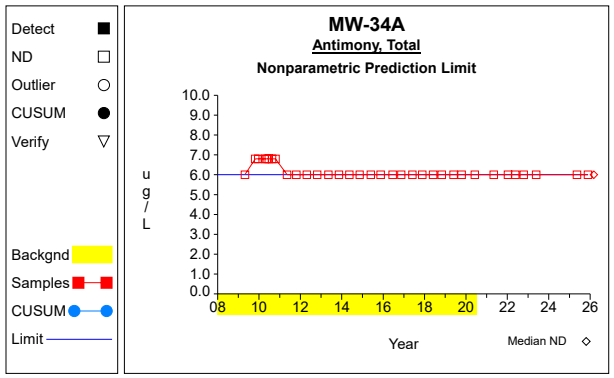



Graph 104

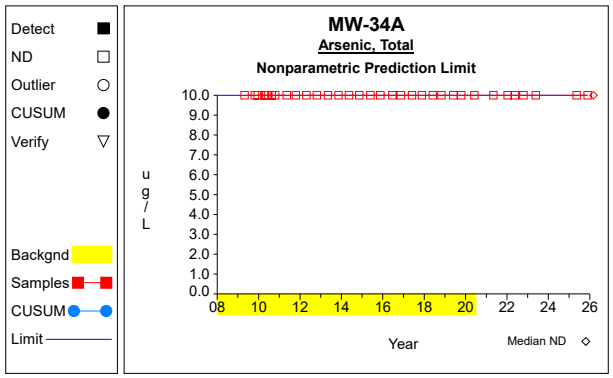



Graph 105

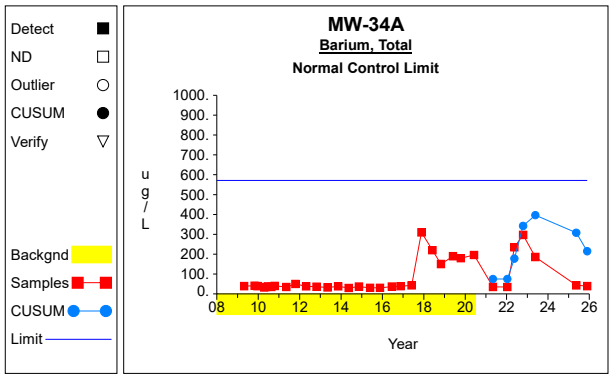
# Intra-Well Control Charts / Prediction Limits



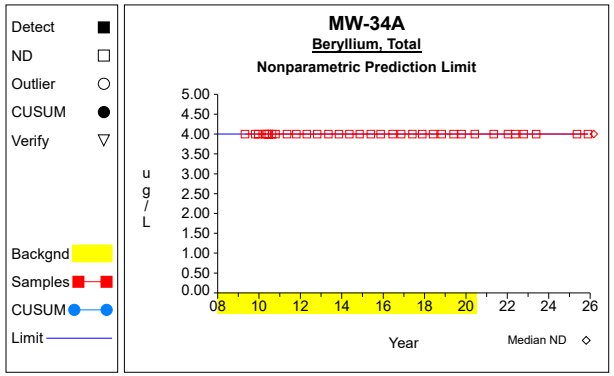

Graph 106



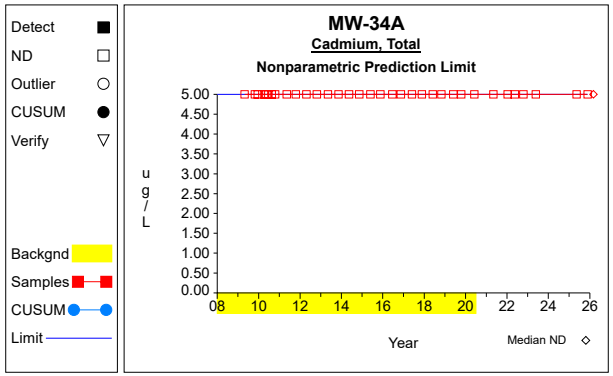

Graph 107



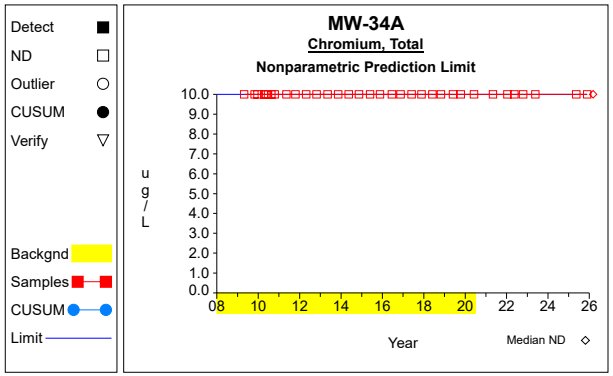

Graph 108



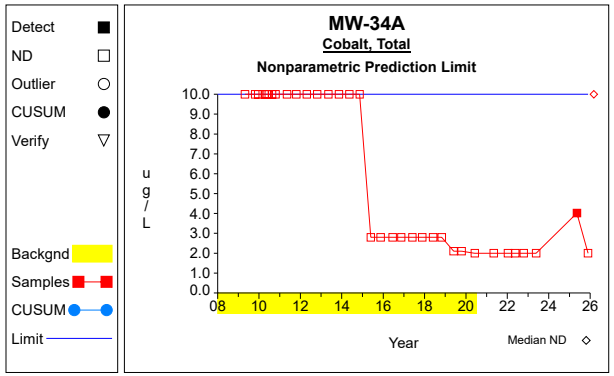

Graph 109



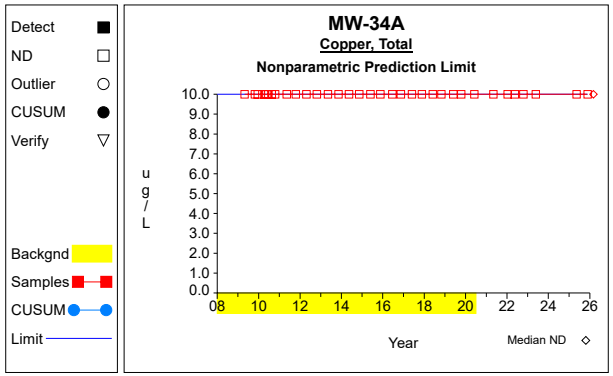

Graph 110



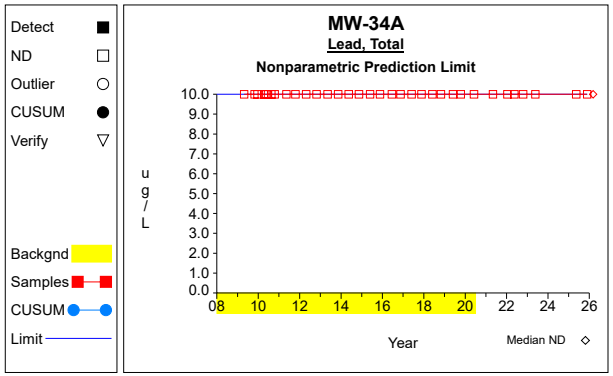

Graph 111




Graph 112



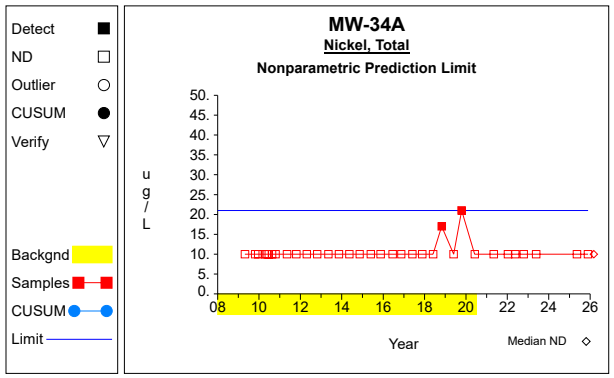

Graph 113



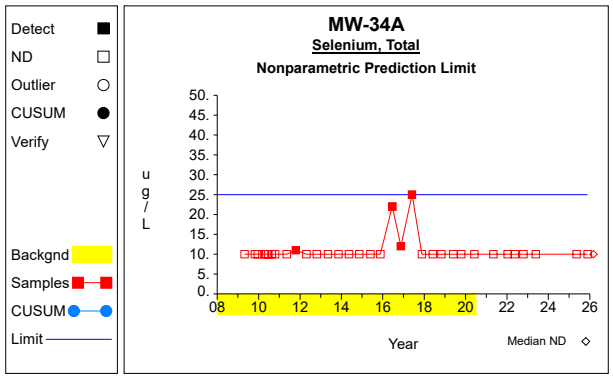

Graph 114

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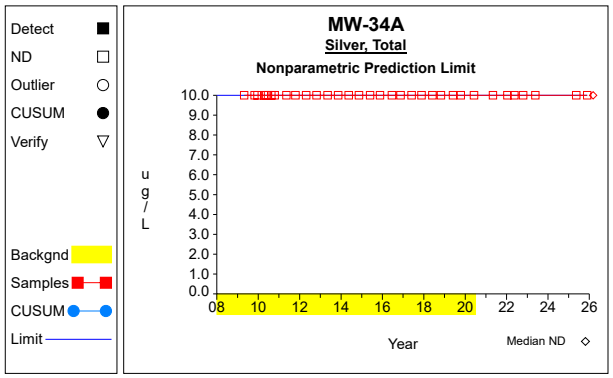
# Intra-Well Control Charts / Prediction Limits



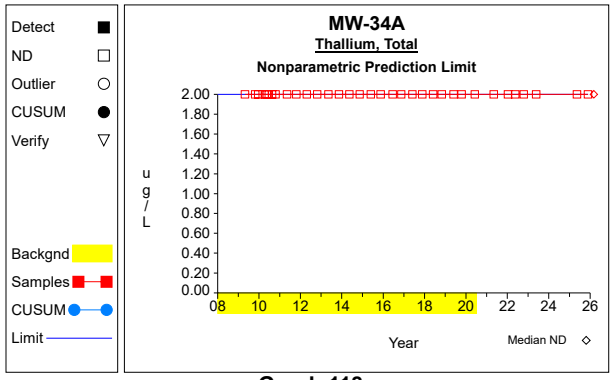

Graph 115



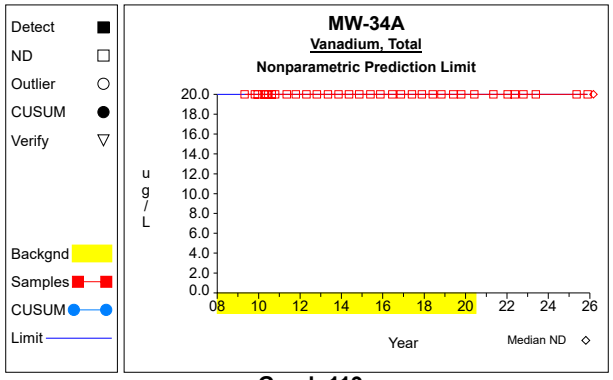

Graph 116



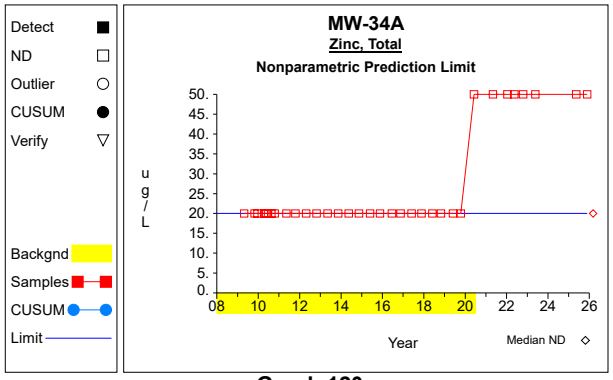

Graph 117




Graph 118

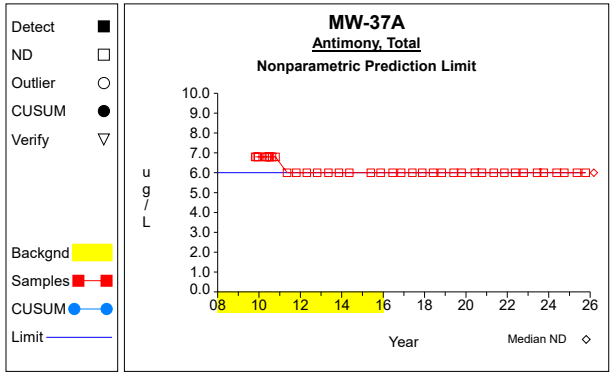



Graph 119

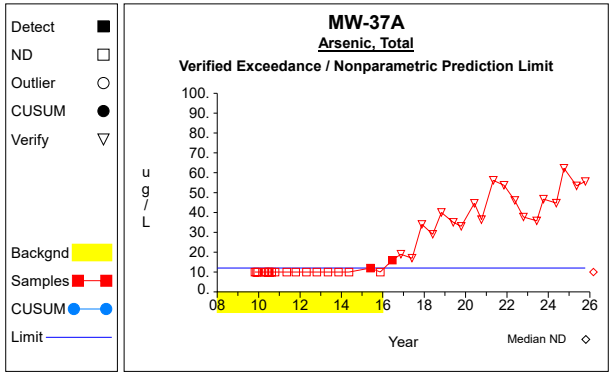



Graph 120

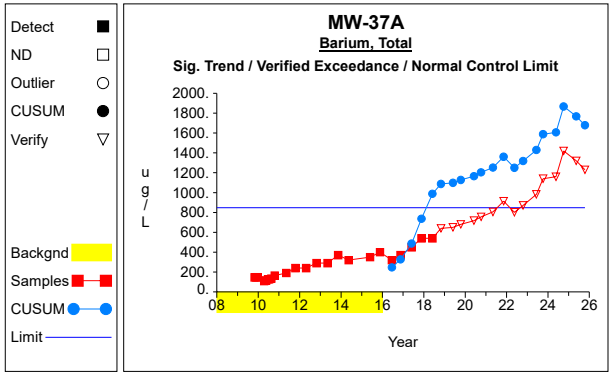
# Intra-Well Control Charts / Prediction Limits



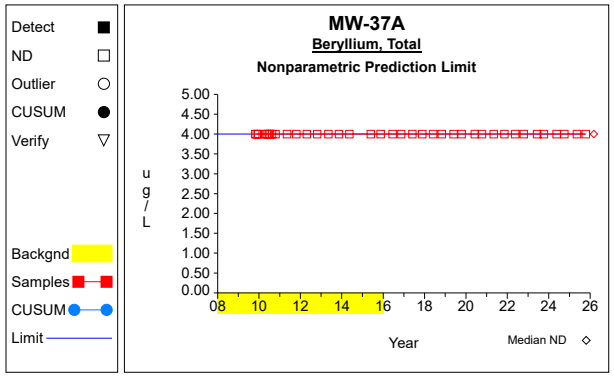

Graph 121



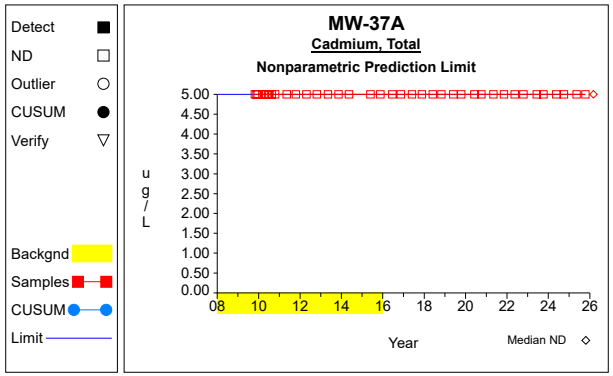

Graph 122



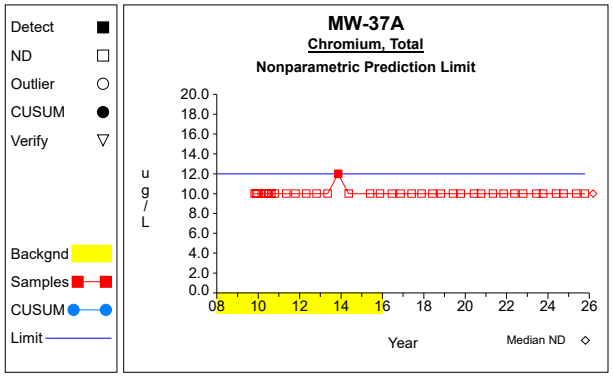

Graph 123



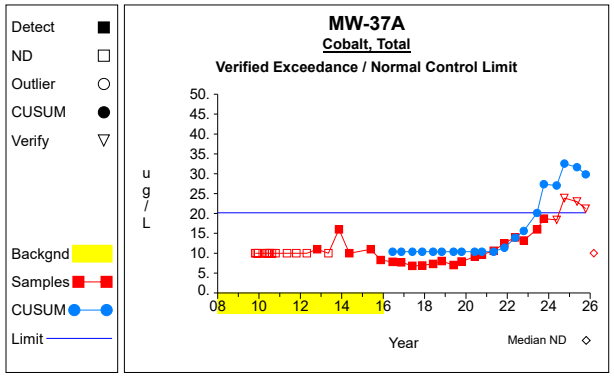

Graph 124



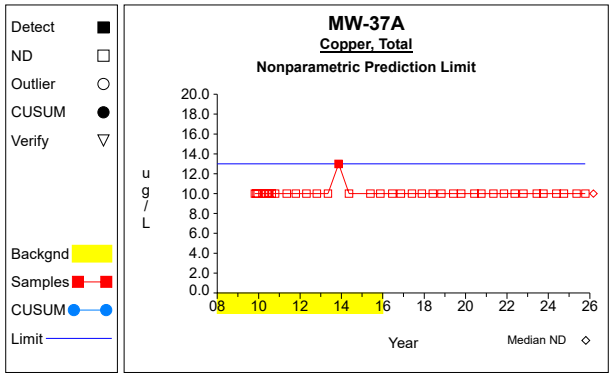

Graph 125



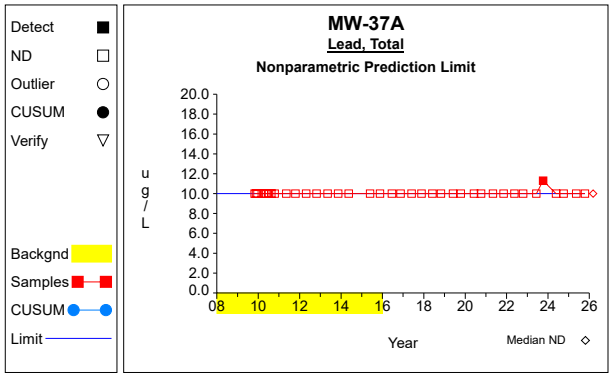

Graph 126




Graph 127



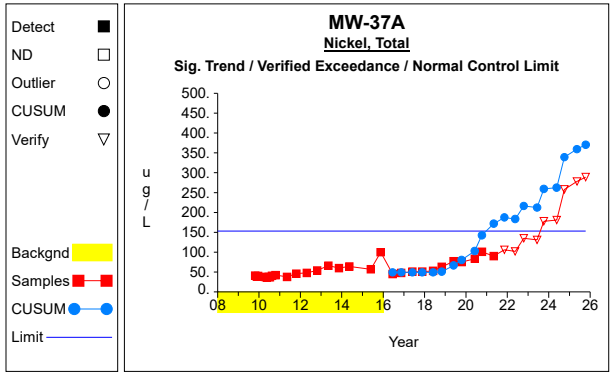

Graph 128



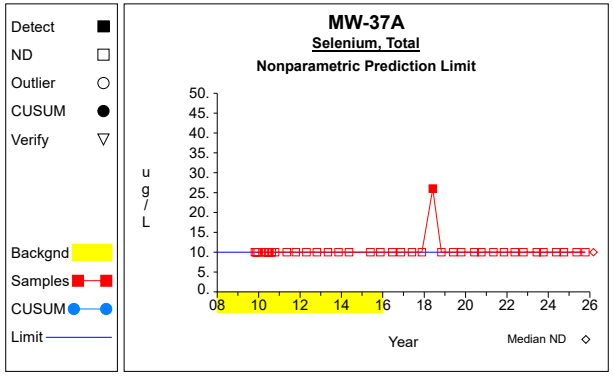

Graph 129

Prepared by: Otter Creek Environmental

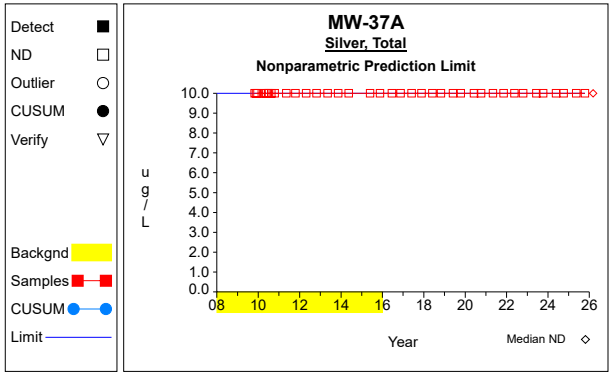
# Intra-Well Control Charts / Prediction Limits



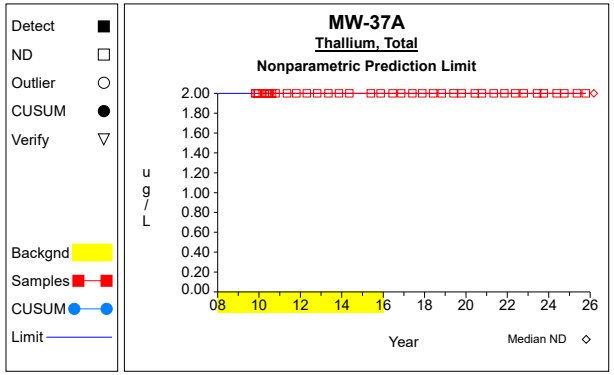

Graph 130



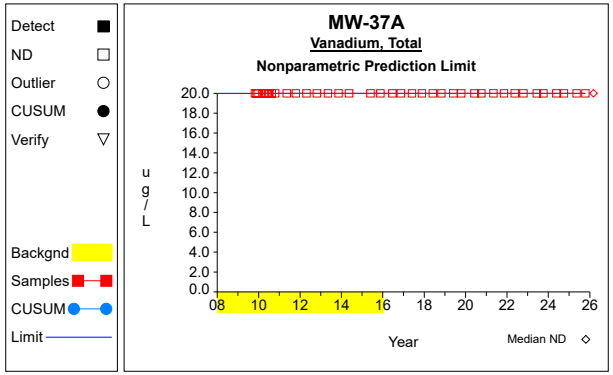

Graph 131



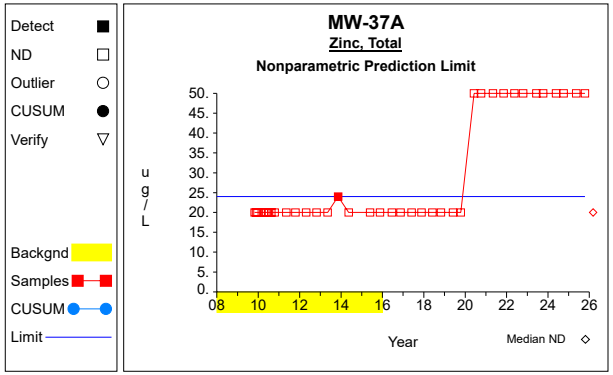

Graph 132




Graph 133

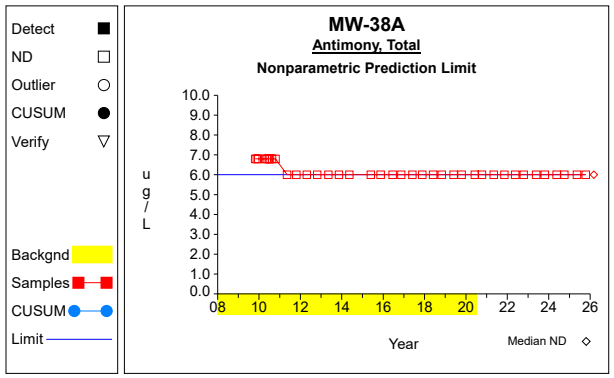



Graph 134

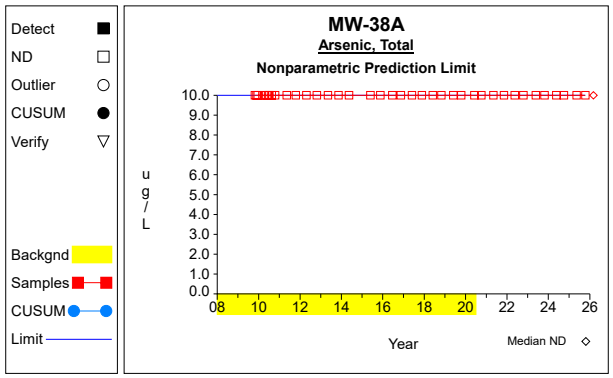



Graph 135

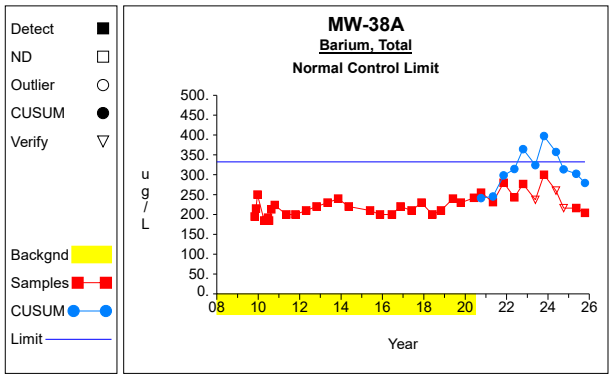
# Intra-Well Control Charts / Prediction Limits



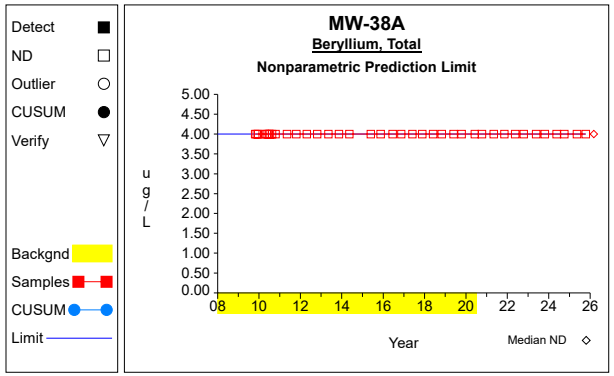

Graph 136



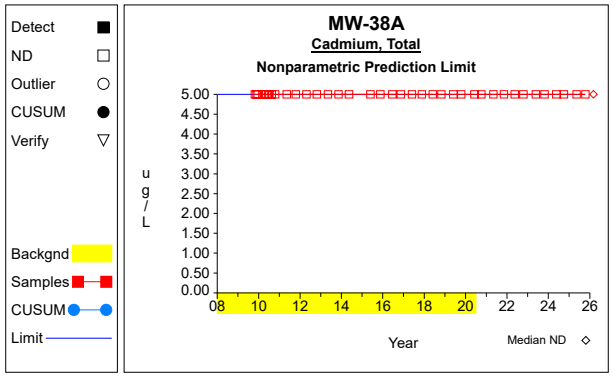

Graph 137



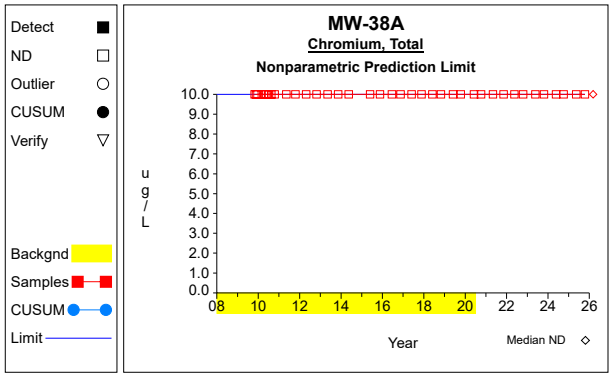

Graph 138



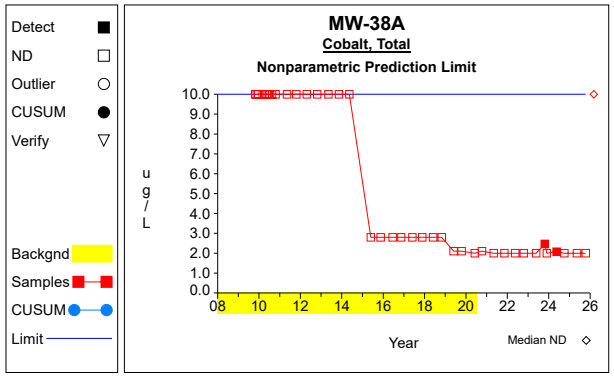

Graph 139



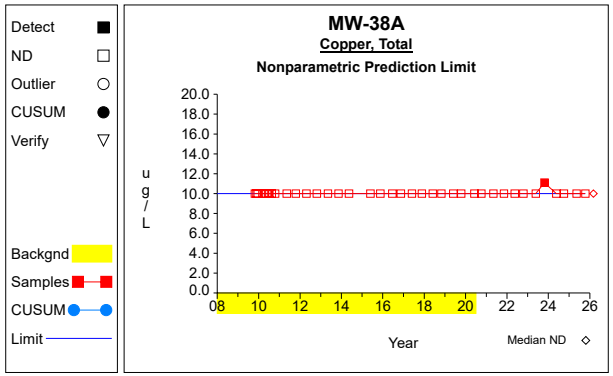

Graph 140



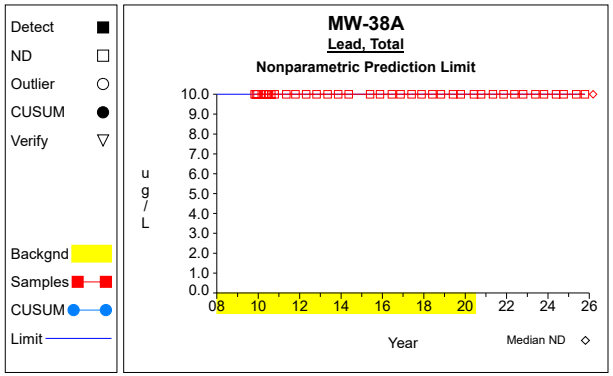

Graph 141




Graph 142



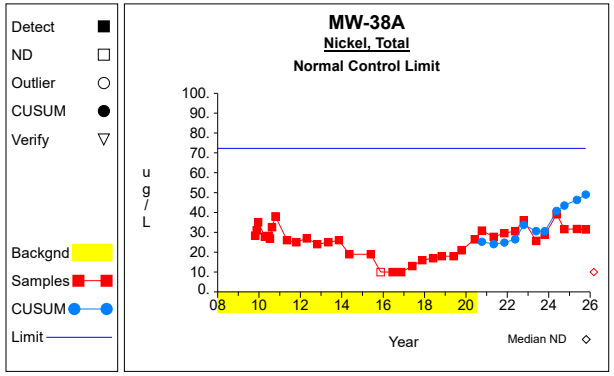

Graph 143



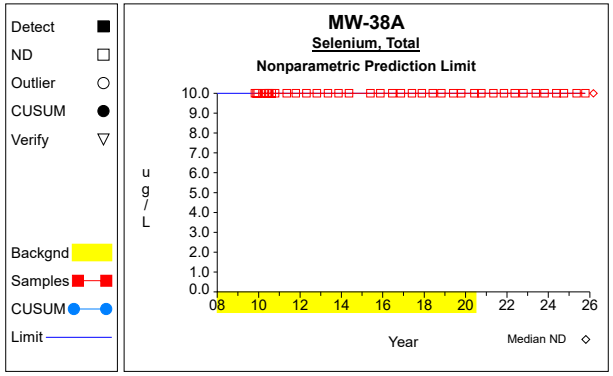

Graph 144

Prepared by: Otter Creek Environmental

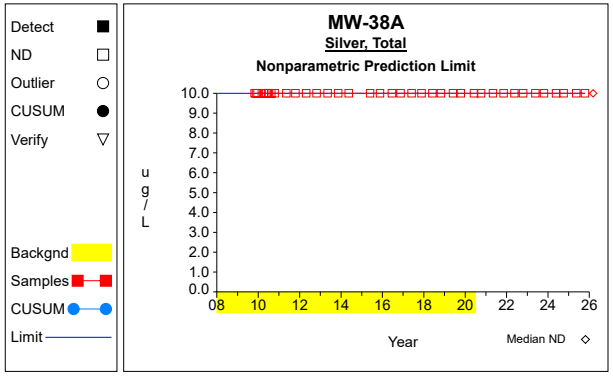
# Intra-Well Control Charts / Prediction Limits



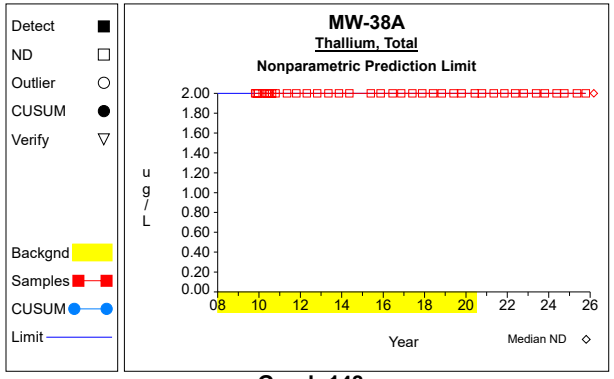

Graph 145



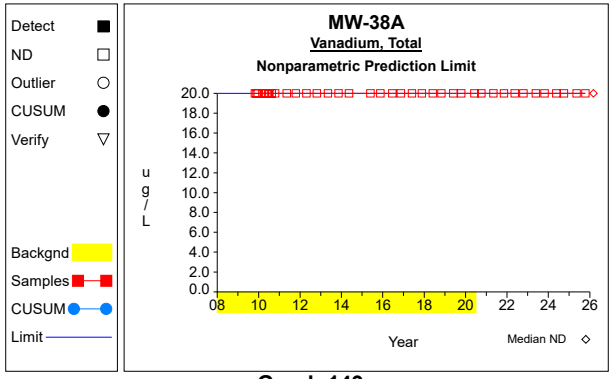

Graph 146



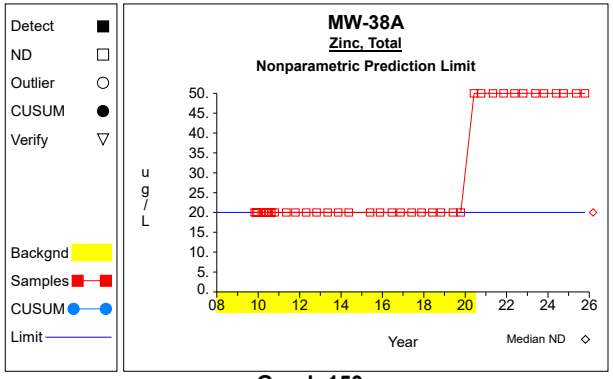

Graph 147




Graph 148

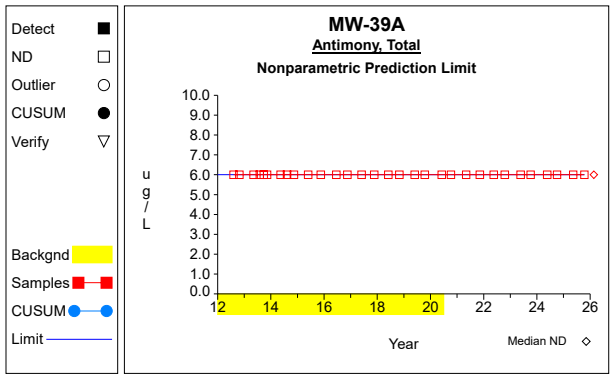



Graph 149

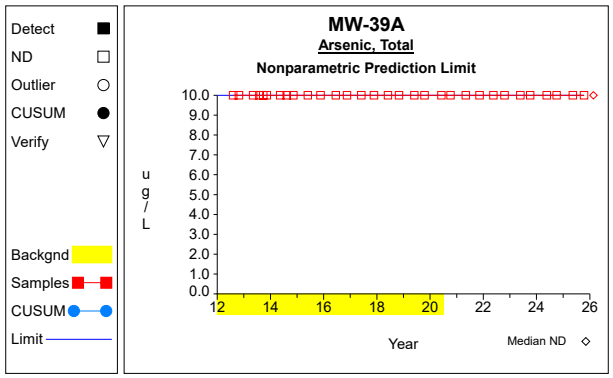



Graph 150

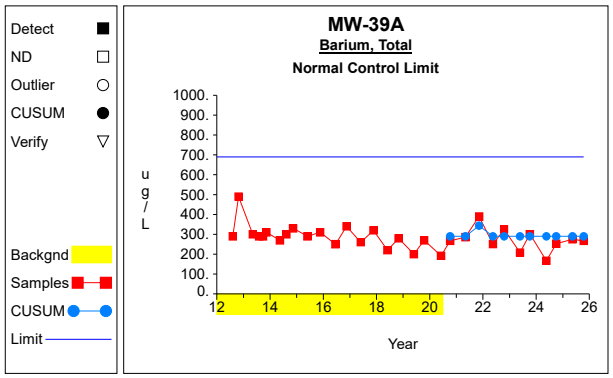
# Intra-Well Control Charts / Prediction Limits



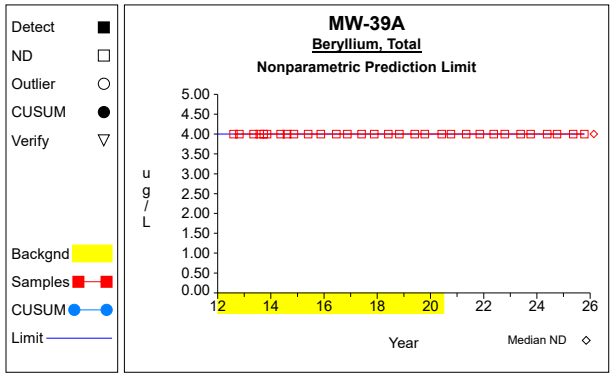

Graph 151



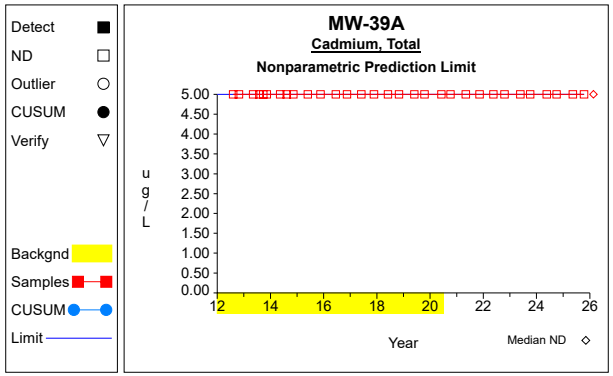

Graph 152



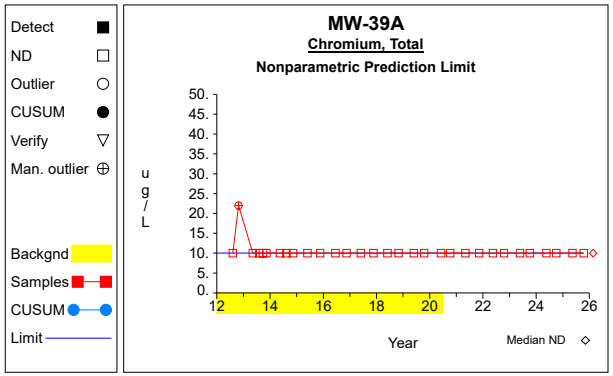

Graph 153



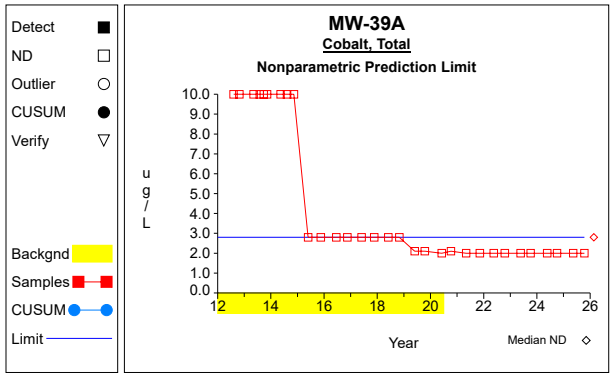

Graph 154



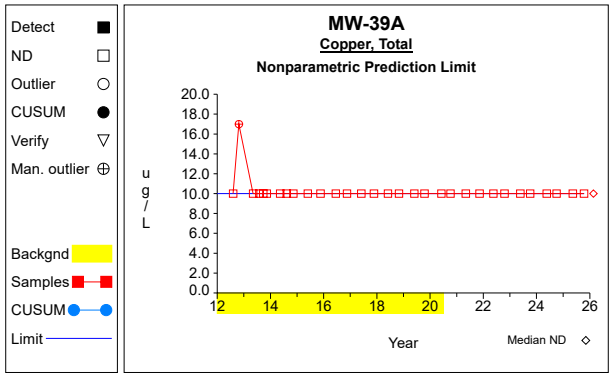

Graph 155



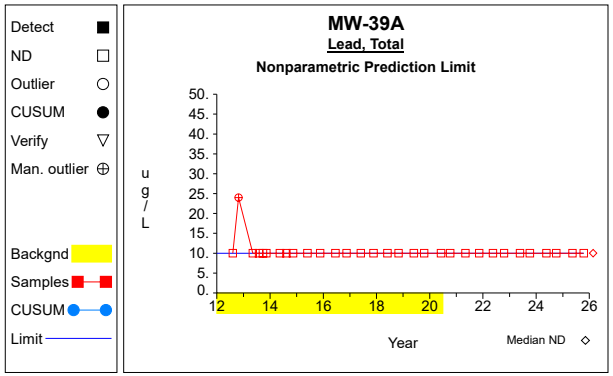

Graph 156




Graph 157



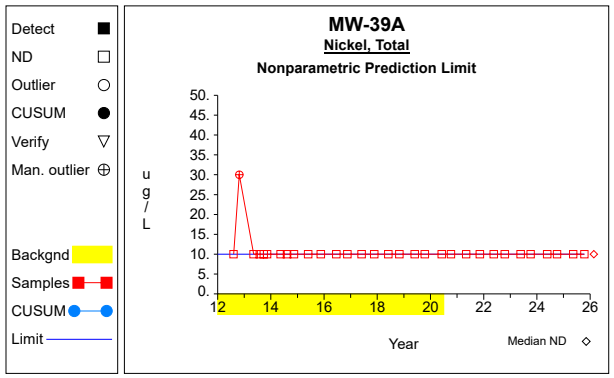

Graph 158



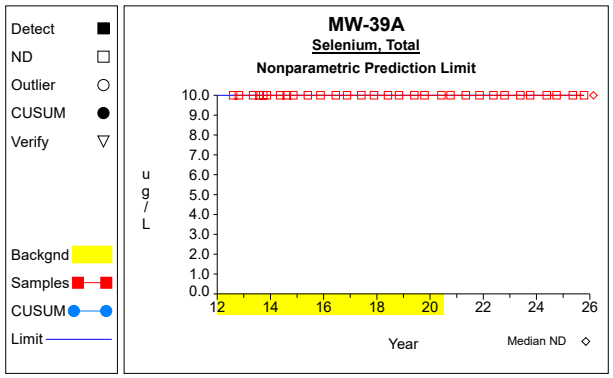

Graph 159

Prepared by: Otter Creek Environmental

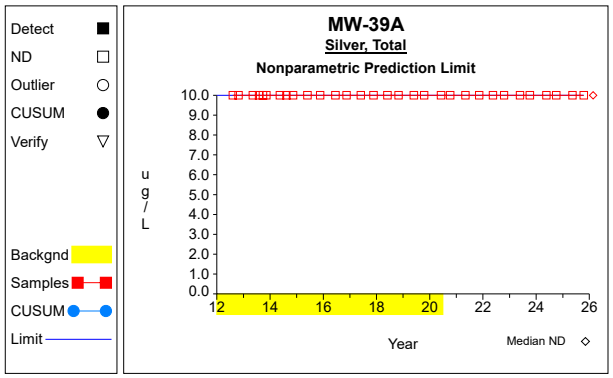
# Intra-Well Control Charts / Prediction Limits



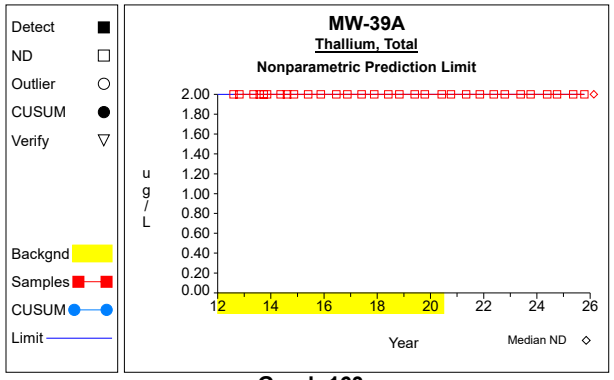

Graph 160



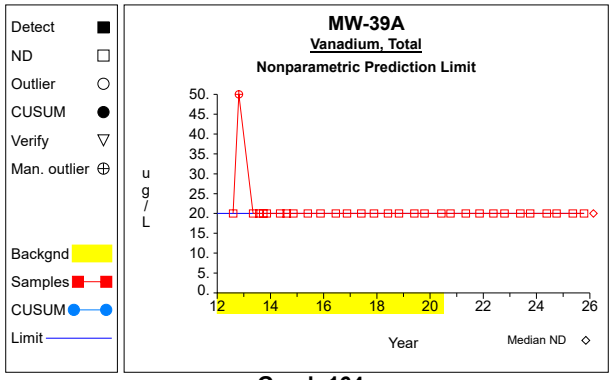

Graph 161



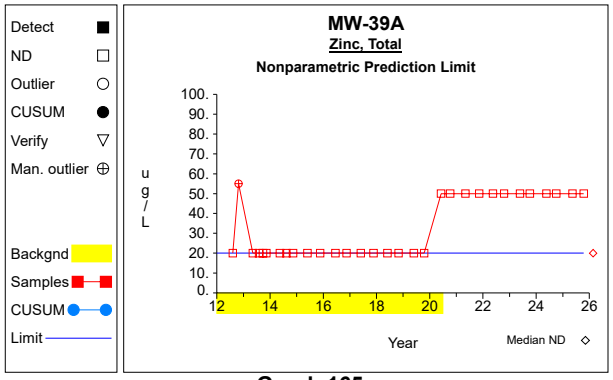

Graph 162




Graph 163

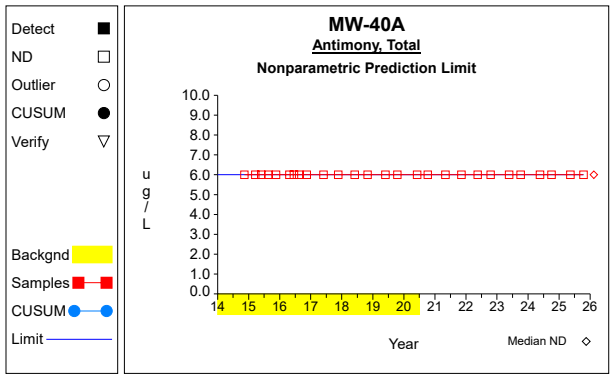



Graph 164

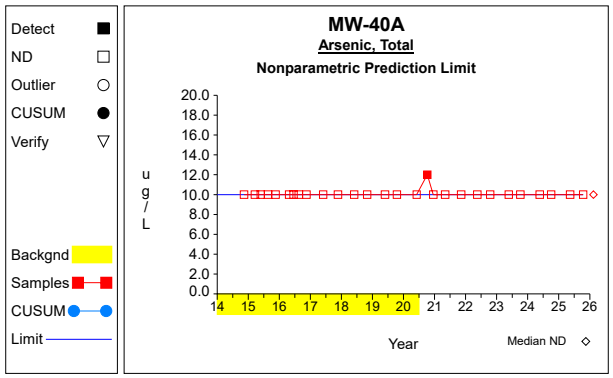



Graph 165

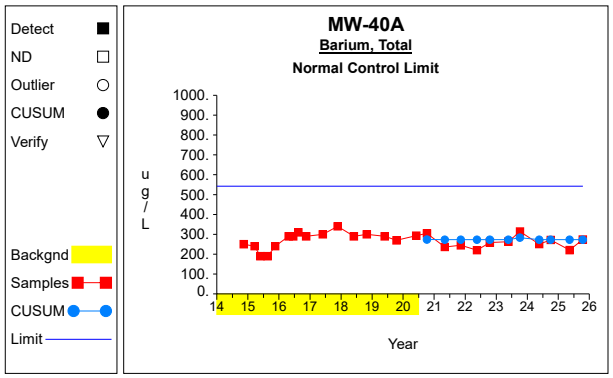
# Intra-Well Control Charts / Prediction Limits



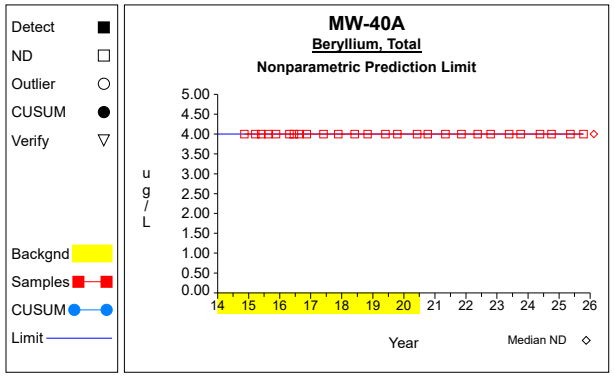

Graph 166



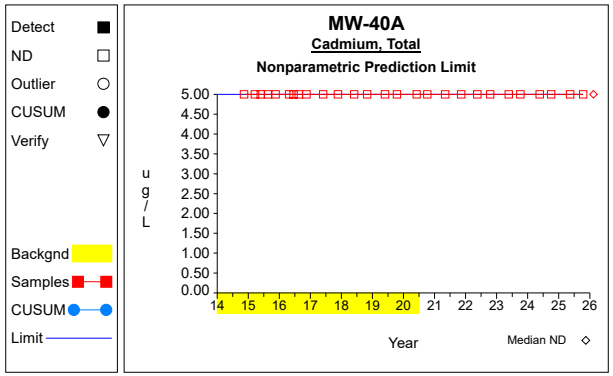

Graph 167



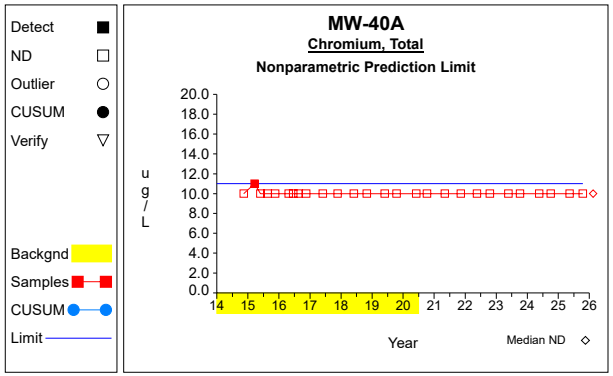

Graph 168



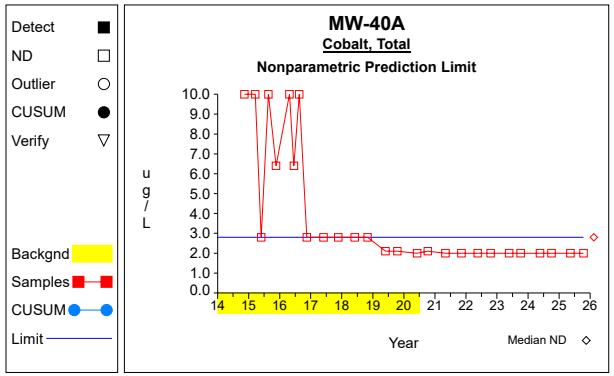

Graph 169



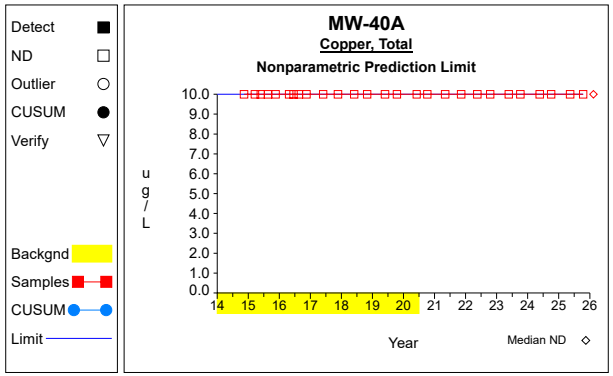

Graph 170



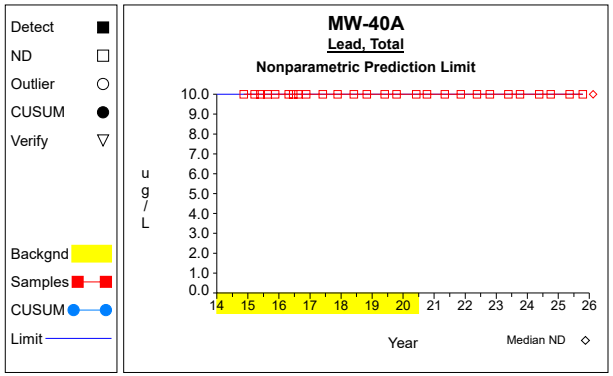

Graph 171




Graph 172



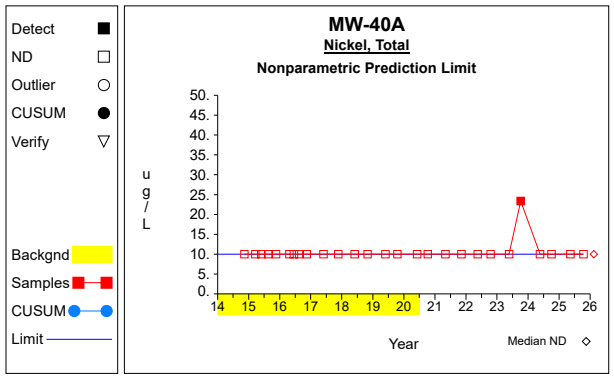

Graph 173



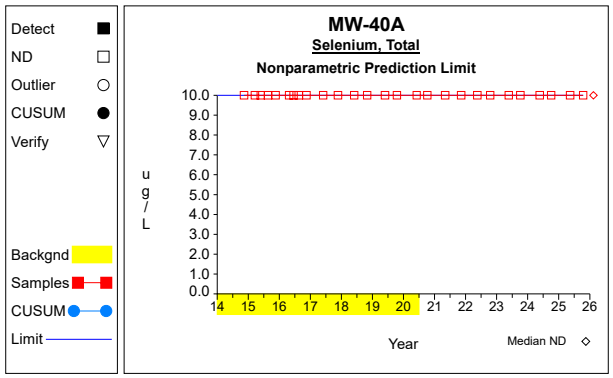

Graph 174

Prepared by: Otter Creek Environmental

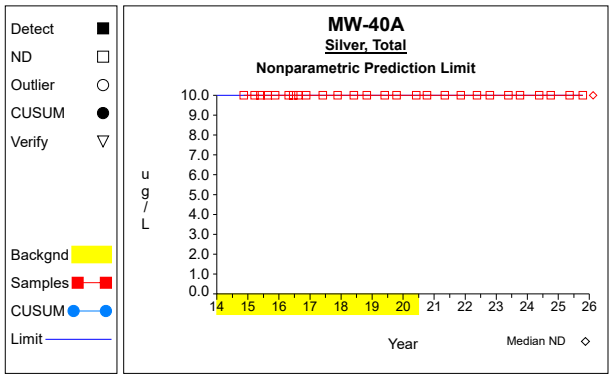
# Intra-Well Control Charts / Prediction Limits



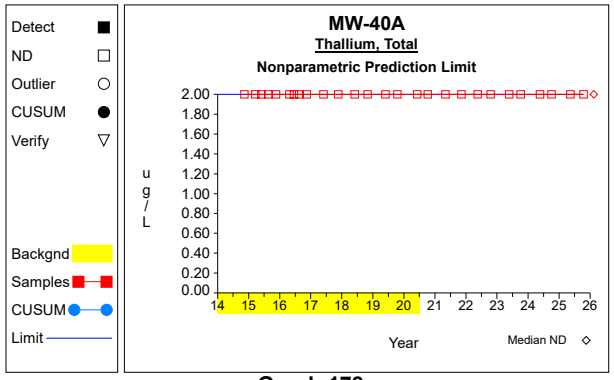

Graph 175



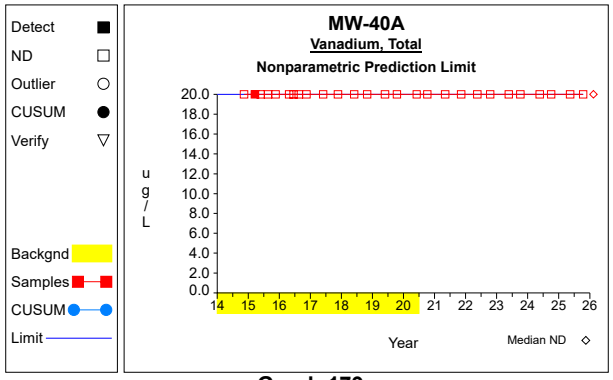

Graph 176



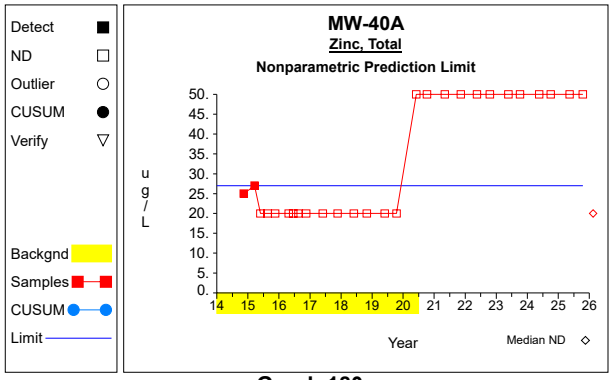

Graph 177




Graph 178

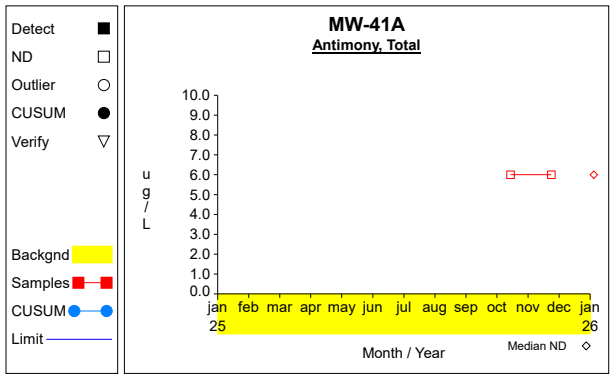



Graph 179

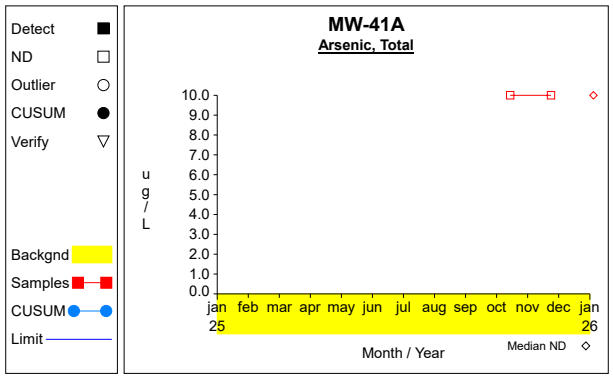



Graph 180

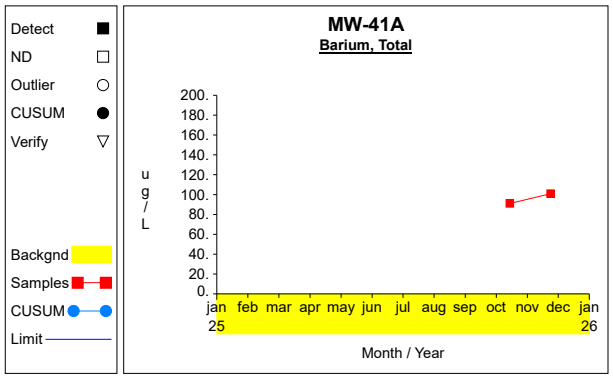
# Intra-Well Control Charts / Prediction Limits



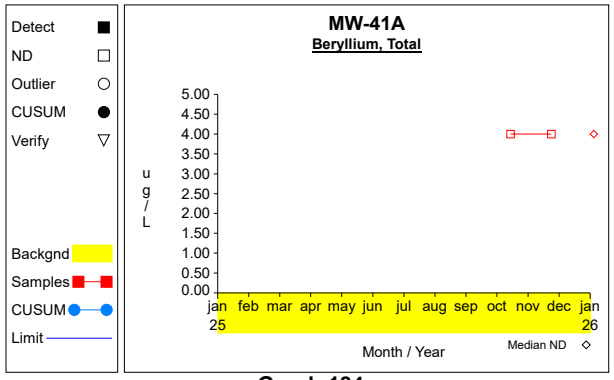

Graph 181



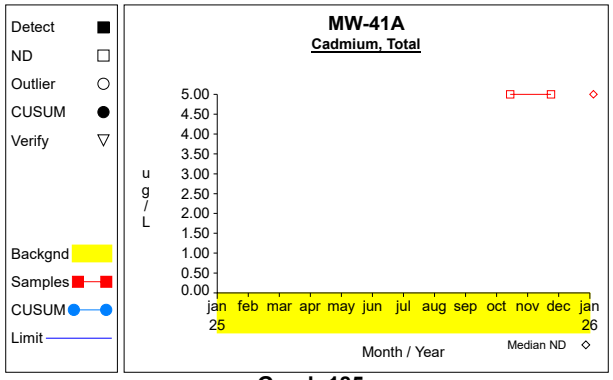

Graph 182



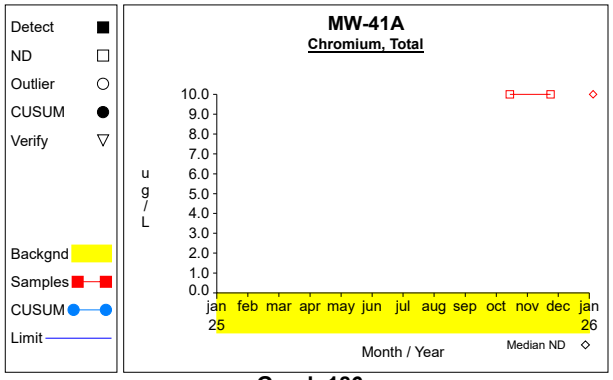

Graph 183



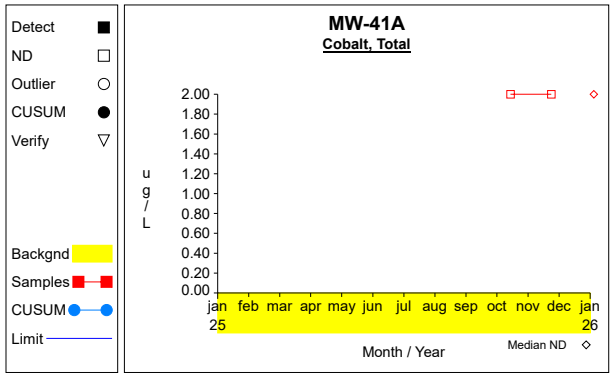

Graph 184



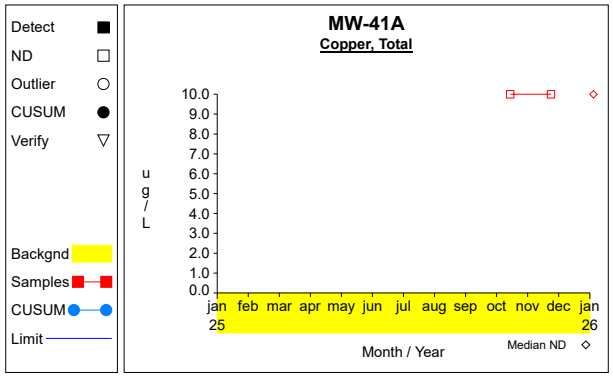

Graph 185



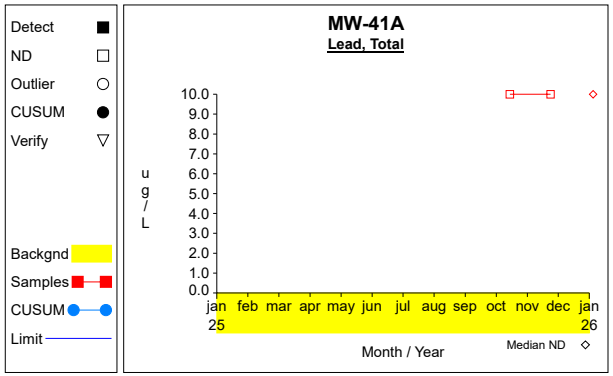

Graph 186




Graph 187

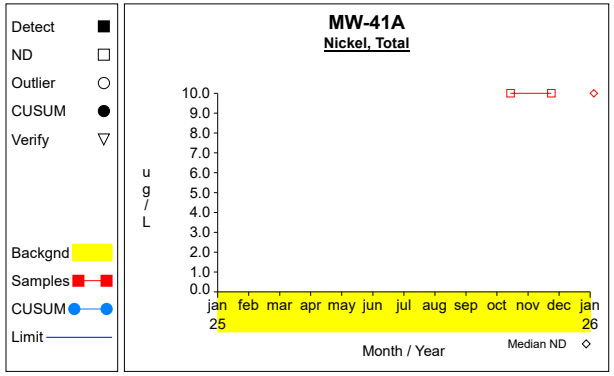



Graph 188

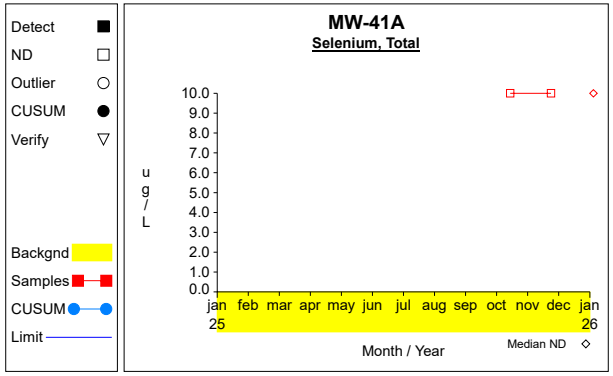



Graph 189

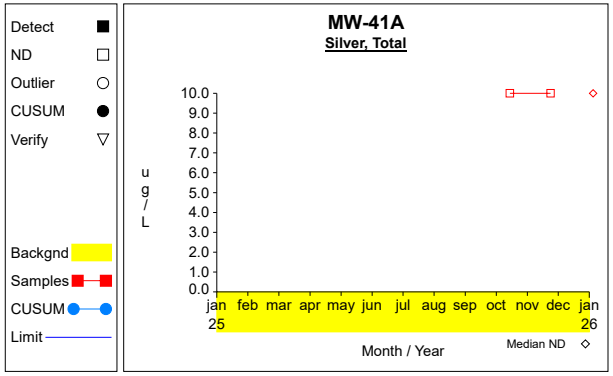
# Intra-Well Control Charts / Prediction Limits



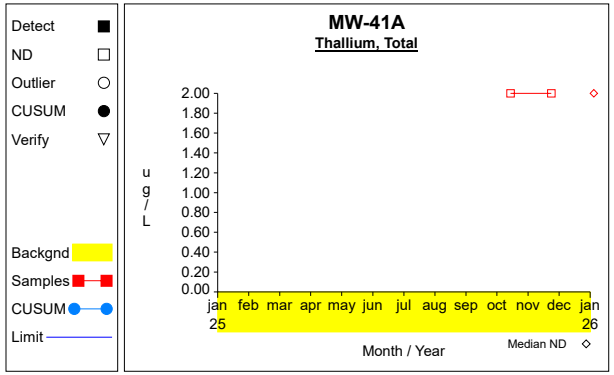

Graph 190



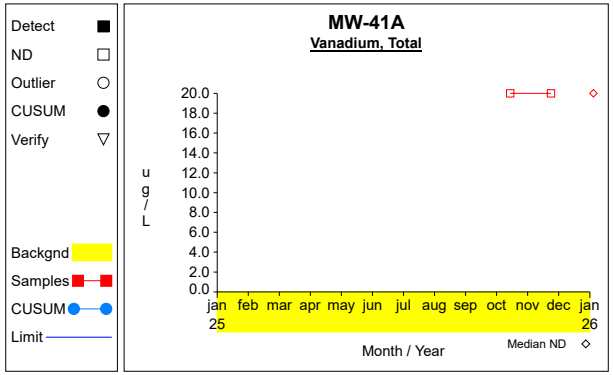

Graph 191



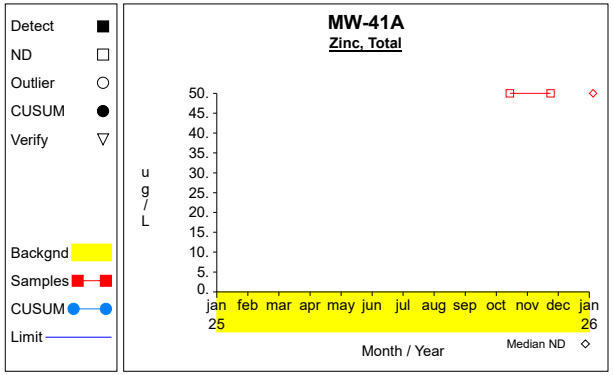

Graph 192




Graph 193

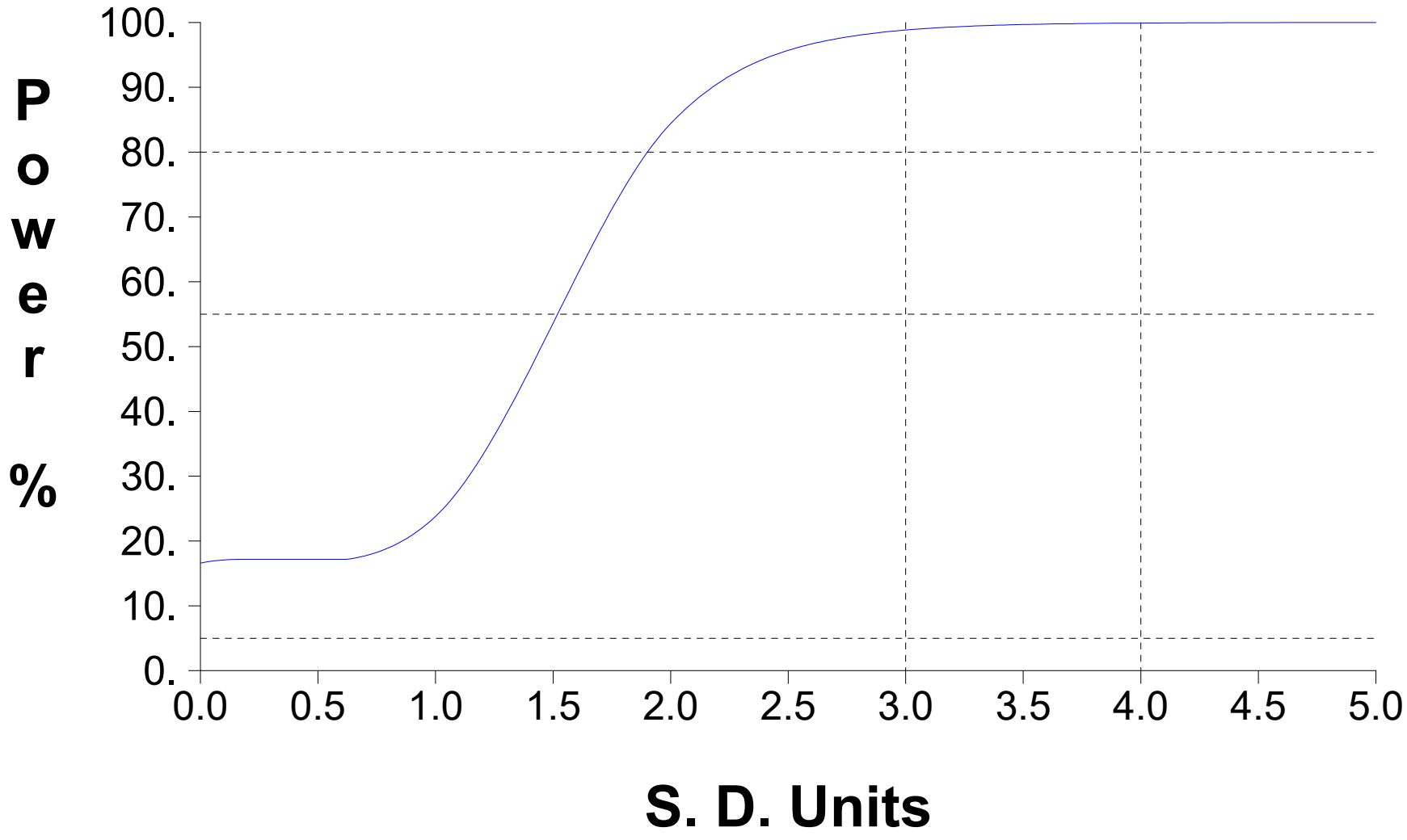



Graph 194




Graph 195

# 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 | Holding Pond | 05/07/2013 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | Holding Pond | 11/11/2013 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | Holding Pond | 05/13/2014 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | Holding Pond | 11/12/2014 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | Holding Pond | 05/27/2015 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | Holding Pond | 11/18/2015 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | Holding Pond | 06/16/2016 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | Holding Pond | 11/16/2016 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | Holding Pond | 05/30/2017 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | Holding Pond | 11/21/2017 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | Holding Pond | 05/31/2018 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | Holding Pond | 10/31/2018 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | Holding Pond | 05/28/2019 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | Holding Pond | 10/15/2019 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | Holding Pond | 06/03/2020 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | Holding Pond | 10/07/2020 | | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | Holding Pond | 05/03/2021 | | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | Holding Pond | 11/09/2021 | | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | Holding Pond | 05/17/2022 | | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | Holding Pond | 10/17/2022 | | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | Holding Pond | 05/22/2023 | | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | Holding Pond | 10/05/2023 | | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | Holding Pond | 05/20/2024 | | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | Holding Pond | 10/02/2024 | | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | Holding Pond | 05/12/2025 | | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | Holding Pond | 10/14/2025 | | 6.0000 | ND | | | | |
| Arsenic, Total | ug/L | Holding Pond | 05/07/2013 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | Holding Pond | 11/11/2013 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | Holding Pond | 05/13/2014 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | Holding Pond | 11/12/2014 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | Holding Pond | 05/27/2015 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | Holding Pond | 11/18/2015 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | Holding Pond | 06/16/2016 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | Holding Pond | 11/16/2016 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | Holding Pond | 05/30/2017 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | Holding Pond | 11/21/2017 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | Holding Pond | 05/31/2018 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | Holding Pond | 10/31/2018 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | Holding Pond | 05/28/2019 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | Holding Pond | 10/15/2019 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | Holding Pond | 06/03/2020 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | Holding Pond | 10/07/2020 | | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | Holding Pond | 05/03/2021 | | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | Holding Pond | 11/09/2021 | | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | Holding Pond | 05/17/2022 | | 10.4000 | | | | | ** |
| Arsenic, Total | ug/L | Holding Pond | 07/28/2022 | | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | Holding Pond | 10/17/2022 | | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | Holding Pond | 05/22/2023 | | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | Holding Pond | 10/05/2023 | | 10.4000 | | | | | ** |
| Arsenic, Total | ug/L | Holding Pond | 11/27/2023 | | 10.0000 | 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 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic, Total | ug/L | Holding Pond | 05/20/2024 | | 21.3000 | | | | | ** |
| Arsenic, Total | ug/L | Holding Pond | 07/18/2024 | | 35.6000 | | | | | ** |
| Arsenic, Total | ug/L | Holding Pond | 10/02/2024 | | 14.0000 | | | | | ** |
| Arsenic, Total | ug/L | Holding Pond | 11/12/2024 | | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | Holding Pond | 05/12/2025 | | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | Holding Pond | 10/14/2025 | | 10.9000 | | | | | ** |
| Barium, Total | ug/L | Holding Pond | 05/07/2013 | yes | 130.0000 | | | | | |
| Barium, Total | ug/L | Holding Pond | 11/11/2013 | yes | 180.0000 | | | | | |
| Barium, Total | ug/L | Holding Pond | 05/13/2014 | yes | 140.0000 | | | | | |
| Barium, Total | ug/L | Holding Pond | 11/12/2014 | yes | 210.0000 | | | | | |
| Barium, Total | ug/L | Holding Pond | 05/27/2015 | yes | 190.0000 | | | | | |
| Barium, Total | ug/L | Holding Pond | 11/18/2015 | yes | 47.0000 | | | | | |
| Barium, Total | ug/L | Holding Pond | 06/16/2016 | yes | 41.0000 | | | | | |
| Barium, Total | ug/L | Holding Pond | 11/16/2016 | yes | 110.0000 | | | | | |
| Barium, Total | ug/L | Holding Pond | 05/30/2017 | yes | 90.0000 | | | | | |
| Barium, Total | ug/L | Holding Pond | 11/21/2017 | yes | 150.0000 | | | | | |
| Barium, Total | ug/L | Holding Pond | 05/31/2018 | yes | 93.0000 | | | | | |
| Barium, Total | ug/L | Holding Pond | 10/31/2018 | yes | 120.0000 | | | | | |
| Barium, Total | ug/L | Holding Pond | 05/28/2019 | yes | 140.0000 | | | | | |
| Barium, Total | ug/L | Holding Pond | 10/15/2019 | yes | 150.0000 | | | | | |
| Barium, Total | ug/L | Holding Pond | 06/03/2020 | yes | 71.7000 | | | | | |
| Barium, Total | ug/L | Holding Pond | 10/07/2020 | | 166.0000 | | | 128.6773 | | |
| Barium, Total | ug/L | Holding Pond | 05/03/2021 | | 57.6000 | | | 124.1800 | | |
| Barium, Total | ug/L | Holding Pond | 11/09/2021 | | 155.0000 | | | 124.1800 | | |
| Barium, Total | ug/L | Holding Pond | 05/17/2022 | | 89.5000 | | | 124.1800 | | |
| Barium, Total | ug/L | Holding Pond | 10/17/2022 | | 75.7000 | | | 124.1800 | | |
| Barium, Total | ug/L | Holding Pond | 05/22/2023 | | 83.7000 | | | 124.1800 | | |
| Barium, Total | ug/L | Holding Pond | 10/05/2023 | | 260.0000 | | | 222.6773 | | |
| Barium, Total | ug/L | Holding Pond | 05/20/2024 | | 48.7000 | | | 124.1800 | | |
| Barium, Total | ug/L | Holding Pond | 10/02/2024 | | 166.0000 | | | 128.6773 | | |
| Barium, Total | ug/L | Holding Pond | 05/12/2025 | | 116.0000 | | | 124.1800 | | |
| Barium, Total | ug/L | Holding Pond | 10/14/2025 | | 178.0000 | | | 140.6773 | | |
| Beryllium, Total | ug/L | Holding Pond | 05/07/2013 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | Holding Pond | 11/11/2013 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | Holding Pond | 05/13/2014 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | Holding Pond | 11/12/2014 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | Holding Pond | 05/27/2015 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | Holding Pond | 11/18/2015 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | Holding Pond | 06/16/2016 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | Holding Pond | 11/16/2016 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | Holding Pond | 05/30/2017 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | Holding Pond | 11/21/2017 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | Holding Pond | 05/31/2018 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | Holding Pond | 10/31/2018 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | Holding Pond | 05/28/2019 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | Holding Pond | 10/15/2019 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | Holding Pond | 06/03/2020 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | Holding Pond | 10/07/2020 | | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | Holding Pond | 05/03/2021 | | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | Holding Pond | 11/09/2021 | | 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 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Beryllium, Total | ug/L | Holding Pond | 05/17/2022 | | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | Holding Pond | 10/17/2022 | | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | Holding Pond | 05/22/2023 | | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | Holding Pond | 10/05/2023 | | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | Holding Pond | 05/20/2024 | | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | Holding Pond | 10/02/2024 | | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | Holding Pond | 05/12/2025 | | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | Holding Pond | 10/14/2025 | | 4.0000 | ND | | | | |
| Cadmium, Total | ug/L | Holding Pond | 05/07/2013 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | Holding Pond | 11/11/2013 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | Holding Pond | 05/13/2014 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | Holding Pond | 11/12/2014 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | Holding Pond | 05/27/2015 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | Holding Pond | 11/18/2015 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | Holding Pond | 06/16/2016 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | Holding Pond | 11/16/2016 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | Holding Pond | 05/30/2017 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | Holding Pond | 11/21/2017 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | Holding Pond | 05/31/2018 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | Holding Pond | 10/31/2018 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | Holding Pond | 05/28/2019 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | Holding Pond | 10/15/2019 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | Holding Pond | 06/03/2020 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | Holding Pond | 10/07/2020 | | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | Holding Pond | 05/03/2021 | | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | Holding Pond | 11/09/2021 | | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | Holding Pond | 05/17/2022 | | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | Holding Pond | 10/17/2022 | | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | Holding Pond | 05/22/2023 | | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | Holding Pond | 10/05/2023 | | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | Holding Pond | 05/20/2024 | | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | Holding Pond | 10/02/2024 | | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | Holding Pond | 05/12/2025 | | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | Holding Pond | 10/14/2025 | | 5.0000 | ND | | | | |
| Chromium, Total | ug/L | Holding Pond | 05/07/2013 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | Holding Pond | 11/11/2013 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | Holding Pond | 05/13/2014 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | Holding Pond | 11/12/2014 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | Holding Pond | 05/27/2015 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | Holding Pond | 11/18/2015 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | Holding Pond | 06/16/2016 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | Holding Pond | 11/16/2016 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | Holding Pond | 05/30/2017 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | Holding Pond | 11/21/2017 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | Holding Pond | 05/31/2018 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | Holding Pond | 10/31/2018 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | Holding Pond | 05/28/2019 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | Holding Pond | 10/15/2019 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | Holding Pond | 06/03/2020 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | Holding Pond | 10/07/2020 | | 10.0000 | 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 | Holding Pond | 05/03/2021 | | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | Holding Pond | 11/09/2021 | | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | Holding Pond | 05/17/2022 | | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | Holding Pond | 10/17/2022 | | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | Holding Pond | 05/22/2023 | | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | Holding Pond | 10/05/2023 | | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | Holding Pond | 05/20/2024 | | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | Holding Pond | 10/02/2024 | | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | Holding Pond | 05/12/2025 | | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | Holding Pond | 10/14/2025 | | 10.0000 | ND | | | | |
| Cobalt, Total | ug/L | Holding Pond | 05/07/2013 | yes | 10.0000 | ND | | | 2.8000 | *** |
| Cobalt, Total | ug/L | Holding Pond | 11/11/2013 | yes | 10.0000 | ND | | | 2.8000 | *** |
| Cobalt, Total | ug/L | Holding Pond | 05/13/2014 | yes | 10.0000 | ND | | | 2.8000 | *** |
| Cobalt, Total | ug/L | Holding Pond | 11/12/2014 | yes | 10.0000 | ND | | | 2.8000 | *** |
| Cobalt, Total | ug/L | Holding Pond | 05/27/2015 | yes | 2.8000 | ND | | | | |
| Cobalt, Total | ug/L | Holding Pond | 11/18/2015 | yes | 2.8000 | ND | | | | |
| Cobalt, Total | ug/L | Holding Pond | 06/16/2016 | yes | 2.8000 | ND | | | | |
| Cobalt, Total | ug/L | Holding Pond | 11/16/2016 | yes | 2.8000 | ND | | | | |
| Cobalt, Total | ug/L | Holding Pond | 05/30/2017 | yes | 2.8000 | ND | | | | |
| Cobalt, Total | ug/L | Holding Pond | 11/21/2017 | yes | 2.8000 | ND | | | | |
| Cobalt, Total | ug/L | Holding Pond | 05/31/2018 | yes | 2.8000 | ND | | | | |
| Cobalt, Total | ug/L | Holding Pond | 10/31/2018 | yes | 2.8000 | ND | | | | |
| Cobalt, Total | ug/L | Holding Pond | 05/28/2019 | yes | 2.1000 | ND | | | 2.8000 | *** |
| Cobalt, Total | ug/L | Holding Pond | 10/15/2019 | yes | 2.1000 | ND | | | 2.8000 | *** |
| Cobalt, Total | ug/L | Holding Pond | 06/03/2020 | yes | 2.0000 | ND | | | 2.8000 | *** |
| Cobalt, Total | ug/L | Holding Pond | 10/07/2020 | | 2.1000 | ND | | | | |
| Cobalt, Total | ug/L | Holding Pond | 05/03/2021 | | 2.0000 | ND | | | | |
| Cobalt, Total | ug/L | Holding Pond | 11/09/2021 | | 2.0000 | ND | | | | |
| Cobalt, Total | ug/L | Holding Pond | 05/17/2022 | | 2.0000 | ND | | | | |
| Cobalt, Total | ug/L | Holding Pond | 10/17/2022 | | 2.0000 | ND | | | | |
| Cobalt, Total | ug/L | Holding Pond | 05/22/2023 | | 2.0000 | ND | | | | |
| Cobalt, Total | ug/L | Holding Pond | 10/05/2023 | | 2.4400 | | | | | |
| Cobalt, Total | ug/L | Holding Pond | 11/27/2023 | | 2.0000 | ND | | | | |
| Cobalt, Total | ug/L | Holding Pond | 05/20/2024 | | 3.9400 | | | | | ** |
| Cobalt, Total | ug/L | Holding Pond | 07/18/2024 | | 2.0000 | ND | | | | |
| Cobalt, Total | ug/L | Holding Pond | 10/02/2024 | | 5.7800 | | | | | ** |
| Cobalt, Total | ug/L | Holding Pond | 05/12/2025 | | 2.0000 | ND | | | | |
| Cobalt, Total | ug/L | Holding Pond | 10/14/2025 | | 2.0000 | ND | | | | |
| Copper, Total | ug/L | Holding Pond | 05/07/2013 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | Holding Pond | 11/11/2013 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | Holding Pond | 05/13/2014 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | Holding Pond | 11/12/2014 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | Holding Pond | 05/27/2015 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | Holding Pond | 11/18/2015 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | Holding Pond | 06/16/2016 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | Holding Pond | 11/16/2016 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | Holding Pond | 05/30/2017 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | Holding Pond | 11/21/2017 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | Holding Pond | 05/31/2018 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | Holding Pond | 10/31/2018 | yes | 10.0000 | 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 | Holding Pond | 05/28/2019 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | Holding Pond | 10/15/2019 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | Holding Pond | 06/03/2020 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | Holding Pond | 10/07/2020 | | 10.0000 | ND | | | | |
| Copper, Total | ug/L | Holding Pond | 05/03/2021 | | 10.0000 | ND | | | | |
| Copper, Total | ug/L | Holding Pond | 11/09/2021 | | 10.0000 | ND | | | | |
| Copper, Total | ug/L | Holding Pond | 05/17/2022 | | 10.0000 | ND | | | | |
| Copper, Total | ug/L | Holding Pond | 10/17/2022 | | 10.0000 | ND | | | | |
| Copper, Total | ug/L | Holding Pond | 05/22/2023 | | 10.0000 | ND | | | | |
| Copper, Total | ug/L | Holding Pond | 10/05/2023 | | 10.0000 | ND | | | | |
| Copper, Total | ug/L | Holding Pond | 05/20/2024 | | 10.0000 | ND | | | | |
| Copper, Total | ug/L | Holding Pond | 10/02/2024 | | 10.0000 | ND | | | | |
| Copper, Total | ug/L | Holding Pond | 05/12/2025 | | 10.0000 | ND | | | | |
| Copper, Total | ug/L | Holding Pond | 10/14/2025 | | 10.0000 | ND | | | | |
| Lead, Total | ug/L | Holding Pond | 05/07/2013 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | Holding Pond | 11/11/2013 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | Holding Pond | 05/13/2014 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | Holding Pond | 11/12/2014 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | Holding Pond | 05/27/2015 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | Holding Pond | 11/18/2015 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | Holding Pond | 06/16/2016 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | Holding Pond | 11/16/2016 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | Holding Pond | 05/30/2017 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | Holding Pond | 11/21/2017 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | Holding Pond | 05/31/2018 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | Holding Pond | 10/31/2018 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | Holding Pond | 05/28/2019 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | Holding Pond | 10/15/2019 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | Holding Pond | 06/03/2020 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | Holding Pond | 10/07/2020 | | 10.0000 | ND | | | | |
| Lead, Total | ug/L | Holding Pond | 05/03/2021 | | 10.0000 | ND | | | | |
| Lead, Total | ug/L | Holding Pond | 11/09/2021 | | 10.0000 | ND | | | | |
| Lead, Total | ug/L | Holding Pond | 05/17/2022 | | 10.0000 | ND | | | | |
| Lead, Total | ug/L | Holding Pond | 10/17/2022 | | 10.0000 | ND | | | | |
| Lead, Total | ug/L | Holding Pond | 05/22/2023 | | 10.0000 | ND | | | | |
| Lead, Total | ug/L | Holding Pond | 10/05/2023 | | 10.0000 | ND | | | | |
| Lead, Total | ug/L | Holding Pond | 05/20/2024 | | 10.0000 | ND | | | | |
| Lead, Total | ug/L | Holding Pond | 10/02/2024 | | 10.0000 | ND | | | | |
| Lead, Total | ug/L | Holding Pond | 05/12/2025 | | 10.0000 | ND | | | | |
| Lead, Total | ug/L | Holding Pond | 10/14/2025 | | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | Holding Pond | 05/07/2013 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | Holding Pond | 11/11/2013 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | Holding Pond | 05/13/2014 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | Holding Pond | 11/12/2014 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | Holding Pond | 05/27/2015 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | Holding Pond | 11/18/2015 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | Holding Pond | 06/16/2016 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | Holding Pond | 11/16/2016 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | Holding Pond | 05/30/2017 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | Holding Pond | 11/21/2017 | yes | 10.0000 | ND | | | | |

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** - 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 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Nickel, Total | ug/L | Holding Pond | 05/31/2018 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | Holding Pond | 10/31/2018 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | Holding Pond | 05/28/2019 | yes | 11.0000 | | | | | |
| Nickel, Total | ug/L | Holding Pond | 10/15/2019 | yes | 10.0000 | | | | | |
| Nickel, Total | ug/L | Holding Pond | 06/03/2020 | yes | 13.7000 | | | | | |
| Nickel, Total | ug/L | Holding Pond | 10/07/2020 | | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | Holding Pond | 05/03/2021 | | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | Holding Pond | 11/09/2021 | | 16.8000 | | | | | ** |
| Nickel, Total | ug/L | Holding Pond | 05/17/2022 | | 22.3000 | | | | | ** |
| Nickel, Total | ug/L | Holding Pond | 07/28/2022 | | 14.5000 | | | | | ** |
| Nickel, Total | ug/L | Holding Pond | 10/17/2022 | | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | Holding Pond | 05/22/2023 | | 28.7000 | | | | | ** |
| Nickel, Total | ug/L | Holding Pond | 10/05/2023 | | 25.9000 | | | | | ** |
| Nickel, Total | ug/L | Holding Pond | 05/20/2024 | | 38.0000 | | | | | ** |
| Nickel, Total | ug/L | Holding Pond | 07/18/2024 | | 21.6000 | | | | | ** |
| Nickel, Total | ug/L | Holding Pond | 10/02/2024 | | 36.4000 | | | | | ** |
| Nickel, Total | ug/L | Holding Pond | 11/12/2024 | | 32.8000 | | | | | ** |
| Nickel, Total | ug/L | Holding Pond | 05/12/2025 | | 22.1000 | | | | | ** |
| Nickel, Total | ug/L | Holding Pond | 10/14/2025 | | 14.2000 | | | | | ** |
| Selenium, Total | ug/L | Holding Pond | 05/07/2013 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | Holding Pond | 11/11/2013 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | Holding Pond | 05/13/2014 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | Holding Pond | 11/12/2014 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | Holding Pond | 05/27/2015 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | Holding Pond | 11/18/2015 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | Holding Pond | 06/16/2016 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | Holding Pond | 11/16/2016 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | Holding Pond | 05/30/2017 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | Holding Pond | 11/21/2017 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | Holding Pond | 05/31/2018 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | Holding Pond | 10/31/2018 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | Holding Pond | 05/28/2019 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | Holding Pond | 10/15/2019 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | Holding Pond | 06/03/2020 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | Holding Pond | 10/07/2020 | | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | Holding Pond | 05/03/2021 | | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | Holding Pond | 11/09/2021 | | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | Holding Pond | 05/17/2022 | | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | Holding Pond | 10/17/2022 | | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | Holding Pond | 05/22/2023 | | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | Holding Pond | 10/05/2023 | | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | Holding Pond | 05/20/2024 | | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | Holding Pond | 10/02/2024 | | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | Holding Pond | 05/12/2025 | | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | Holding Pond | 10/14/2025 | | 10.0000 | ND | | | | |
| Silver, Total | ug/L | Holding Pond | 05/07/2013 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | Holding Pond | 11/11/2013 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | Holding Pond | 05/13/2014 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | Holding Pond | 11/12/2014 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | Holding Pond | 05/27/2015 | yes | 10.0000 | 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 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Silver, Total | ug/L | Holding Pond | 11/18/2015 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | Holding Pond | 06/16/2016 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | Holding Pond | 11/16/2016 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | Holding Pond | 05/30/2017 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | Holding Pond | 11/21/2017 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | Holding Pond | 05/31/2018 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | Holding Pond | 10/31/2018 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | Holding Pond | 05/28/2019 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | Holding Pond | 10/15/2019 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | Holding Pond | 06/03/2020 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | Holding Pond | 10/07/2020 | | 10.0000 | ND | | | | |
| Silver, Total | ug/L | Holding Pond | 05/03/2021 | | 10.0000 | ND | | | | |
| Silver, Total | ug/L | Holding Pond | 11/09/2021 | | 10.0000 | ND | | | | |
| Silver, Total | ug/L | Holding Pond | 05/17/2022 | | 10.0000 | ND | | | | |
| Silver, Total | ug/L | Holding Pond | 10/17/2022 | | 10.0000 | ND | | | | |
| Silver, Total | ug/L | Holding Pond | 05/22/2023 | | 10.0000 | ND | | | | |
| Silver, Total | ug/L | Holding Pond | 10/05/2023 | | 10.0000 | ND | | | | |
| Silver, Total | ug/L | Holding Pond | 05/20/2024 | | 10.0000 | ND | | | | |
| Silver, Total | ug/L | Holding Pond | 10/02/2024 | | 10.0000 | ND | | | | |
| Silver, Total | ug/L | Holding Pond | 05/12/2025 | | 10.0000 | ND | | | | |
| Silver, Total | ug/L | Holding Pond | 10/14/2025 | | 10.0000 | ND | | | | |
| Thallium, Total | ug/L | Holding Pond | 05/07/2013 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | Holding Pond | 11/11/2013 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | Holding Pond | 05/13/2014 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | Holding Pond | 11/12/2014 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | Holding Pond | 05/27/2015 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | Holding Pond | 11/18/2015 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | Holding Pond | 06/16/2016 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | Holding Pond | 11/16/2016 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | Holding Pond | 05/30/2017 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | Holding Pond | 11/21/2017 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | Holding Pond | 05/31/2018 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | Holding Pond | 10/31/2018 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | Holding Pond | 05/28/2019 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | Holding Pond | 10/15/2019 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | Holding Pond | 06/03/2020 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | Holding Pond | 10/07/2020 | | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | Holding Pond | 05/03/2021 | | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | Holding Pond | 11/09/2021 | | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | Holding Pond | 05/17/2022 | | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | Holding Pond | 10/17/2022 | | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | Holding Pond | 05/22/2023 | | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | Holding Pond | 10/05/2023 | | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | Holding Pond | 05/20/2024 | | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | Holding Pond | 10/02/2024 | | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | Holding Pond | 05/12/2025 | | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | Holding Pond | 10/14/2025 | | 2.0000 | ND | | | | |
| Vanadium, Total | ug/L | Holding Pond | 05/07/2013 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | Holding Pond | 11/11/2013 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | Holding Pond | 05/13/2014 | yes | 20.0000 | 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 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Vanadium, Total | ug/L | Holding Pond | 11/12/2014 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | Holding Pond | 05/27/2015 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | Holding Pond | 11/18/2015 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | Holding Pond | 06/16/2016 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | Holding Pond | 11/16/2016 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | Holding Pond | 05/30/2017 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | Holding Pond | 11/21/2017 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | Holding Pond | 05/31/2018 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | Holding Pond | 10/31/2018 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | Holding Pond | 05/28/2019 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | Holding Pond | 10/15/2019 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | Holding Pond | 06/03/2020 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | Holding Pond | 10/07/2020 | | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | Holding Pond | 05/03/2021 | | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | Holding Pond | 11/09/2021 | | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | Holding Pond | 05/17/2022 | | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | Holding Pond | 10/17/2022 | | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | Holding Pond | 05/22/2023 | | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | Holding Pond | 10/05/2023 | | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | Holding Pond | 05/20/2024 | | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | Holding Pond | 10/02/2024 | | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | Holding Pond | 05/12/2025 | | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | Holding Pond | 10/14/2025 | | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | Holding Pond | 05/07/2013 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | Holding Pond | 11/11/2013 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | Holding Pond | 05/13/2014 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | Holding Pond | 11/12/2014 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | Holding Pond | 05/27/2015 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | Holding Pond | 11/18/2015 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | Holding Pond | 06/16/2016 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | Holding Pond | 11/16/2016 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | Holding Pond | 05/30/2017 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | Holding Pond | 11/21/2017 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | Holding Pond | 05/31/2018 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | Holding Pond | 10/31/2018 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | Holding Pond | 05/28/2019 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | Holding Pond | 10/15/2019 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | Holding Pond | 06/03/2020 | yes | 50.0000 | ND | | | 20.0000 | *** |
| Zinc, Total | ug/L | Holding Pond | 10/07/2020 | | 50.0000 | ND | | | | |
| Zinc, Total | ug/L | Holding Pond | 05/03/2021 | | 50.0000 | ND | | | | |
| Zinc, Total | ug/L | Holding Pond | 11/09/2021 | | 50.0000 | ND | | | | |
| Zinc, Total | ug/L | Holding Pond | 05/17/2022 | | 50.0000 | ND | | | | |
| Zinc, Total | ug/L | Holding Pond | 10/17/2022 | | 50.0000 | ND | | | | |
| Zinc, Total | ug/L | Holding Pond | 05/22/2023 | | 50.0000 | ND | | | | |
| Zinc, Total | ug/L | Holding Pond | 10/05/2023 | | 50.0000 | ND | | | | |
| Zinc, Total | ug/L | Holding Pond | 05/20/2024 | | 50.0000 | ND | | | | |
| Zinc, Total | ug/L | Holding Pond | 10/02/2024 | | 50.0000 | ND | | | | |
| Zinc, Total | ug/L | Holding Pond | 05/12/2025 | | 50.0000 | ND | | | | |
| Zinc, Total | ug/L | Holding Pond | 10/14/2025 | | 50.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-11A | 04/24/2008 | yes | 6.0000 | 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 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Antimony, Total | ug/L | MW-11A | 05/21/2008 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-11A | 06/18/2008 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-11A | 08/13/2008 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-11A | 09/24/2008 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-11A | 04/27/2009 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-11A | 10/26/2009 | yes | 6.8000 | ND | | | 6.0000 | *** |
| Antimony, Total | ug/L | MW-11A | 12/17/2009 | yes | 6.8000 | ND | | | 6.0000 | *** |
| Antimony, Total | ug/L | MW-11A | 04/13/2010 | yes | 6.8000 | ND | | | 6.0000 | *** |
| Antimony, Total | ug/L | MW-11A | 10/18/2010 | yes | 6.8000 | ND | | | 6.0000 | *** |
| Antimony, Total | ug/L | MW-11A | 05/10/2011 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-11A | 10/19/2011 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-11A | 04/24/2012 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-11A | 10/25/2012 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-11A | 11/11/2013 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-11A | 11/12/2014 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-11A | 11/18/2015 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-11A | 06/16/2016 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-11A | 11/16/2016 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-11A | 05/30/2017 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-11A | 11/21/2017 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-11A | 05/31/2018 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-11A | 10/31/2018 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-11A | 05/28/2019 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-11A | 10/15/2019 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-11A | 06/03/2020 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-11A | 10/07/2020 | | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-11A | 05/03/2021 | | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-11A | 11/09/2021 | | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-11A | 05/17/2022 | | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-11A | 10/17/2022 | | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-11A | 05/22/2023 | | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-11A | 10/05/2023 | | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-11A | 05/20/2024 | | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-11A | 10/02/2024 | | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-11A | 05/12/2025 | | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-11A | 10/14/2025 | | 6.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-11A | 04/24/2008 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-11A | 05/21/2008 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-11A | 06/18/2008 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-11A | 08/13/2008 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-11A | 09/24/2008 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-11A | 04/27/2009 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-11A | 10/26/2009 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-11A | 12/17/2009 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-11A | 04/13/2010 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-11A | 10/18/2010 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-11A | 05/10/2011 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-11A | 10/19/2011 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-11A | 04/24/2012 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-11A | 10/25/2012 | yes | 10.0000 | 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 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic, Total | ug/L | MW-11A | 11/11/2013 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-11A | 11/12/2014 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-11A | 11/18/2015 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-11A | 06/16/2016 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-11A | 11/16/2016 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-11A | 05/30/2017 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-11A | 11/21/2017 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-11A | 05/31/2018 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-11A | 10/31/2018 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-11A | 05/28/2019 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-11A | 10/15/2019 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-11A | 06/03/2020 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-11A | 10/07/2020 | | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-11A | 05/03/2021 | | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-11A | 11/09/2021 | | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-11A | 05/17/2022 | | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-11A | 10/17/2022 | | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-11A | 05/22/2023 | | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-11A | 10/05/2023 | | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-11A | 05/20/2024 | | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-11A | 10/02/2024 | | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-11A | 05/12/2025 | | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-11A | 10/14/2025 | | 10.0000 | ND | | | | |
| Barium, Total | ug/L | MW-11A | 04/24/2008 | yes | 190.0000 | | | | | |
| Barium, Total | ug/L | MW-11A | 05/21/2008 | yes | 190.0000 | | | | | |
| Barium, Total | ug/L | MW-11A | 06/18/2008 | yes | 190.0000 | | | | | |
| Barium, Total | ug/L | MW-11A | 08/13/2008 | yes | 190.0000 | | | | | |
| Barium, Total | ug/L | MW-11A | 09/24/2008 | yes | 200.0000 | | | | | |
| Barium, Total | ug/L | MW-11A | 04/27/2009 | yes | 183.0000 | | | | | |
| Barium, Total | ug/L | MW-11A | 10/26/2009 | yes | 192.0000 | | | | | |
| Barium, Total | ug/L | MW-11A | 12/17/2009 | yes | 195.0000 | | | | | |
| Barium, Total | ug/L | MW-11A | 04/13/2010 | yes | 178.0000 | | | | | |
| Barium, Total | ug/L | MW-11A | 10/18/2010 | yes | 209.0000 | | | | | |
| Barium, Total | ug/L | MW-11A | 05/10/2011 | yes | 200.0000 | | | | | |
| Barium, Total | ug/L | MW-11A | 10/19/2011 | yes | 220.0000 | | | | | |
| Barium, Total | ug/L | MW-11A | 04/24/2012 | yes | 200.0000 | | | | | |
| Barium, Total | ug/L | MW-11A | 10/25/2012 | yes | 370.0000 | | | | | |
| Barium, Total | ug/L | MW-11A | 11/11/2013 | yes | 200.0000 | | | | | |
| Barium, Total | ug/L | MW-11A | 11/12/2014 | yes | 220.0000 | | | | | |
| Barium, Total | ug/L | MW-11A | 11/18/2015 | yes | 280.0000 | | | | | |
| Barium, Total | ug/L | MW-11A | 06/16/2016 | yes | 170.0000 | | | | | |
| Barium, Total | ug/L | MW-11A | 11/16/2016 | yes | 150.0000 | | | | | |
| Barium, Total | ug/L | MW-11A | 05/30/2017 | yes | 180.0000 | | | | | |
| Barium, Total | ug/L | MW-11A | 11/21/2017 | yes | 220.0000 | | | | | |
| Barium, Total | ug/L | MW-11A | 05/31/2018 | yes | 200.0000 | | | | | |
| Barium, Total | ug/L | MW-11A | 10/31/2018 | yes | 210.0000 | | | | | |
| Barium, Total | ug/L | MW-11A | 05/28/2019 | yes | 240.0000 | | | | | |
| Barium, Total | ug/L | MW-11A | 10/15/2019 | yes | 270.0000 | | | | | |
| Barium, Total | ug/L | MW-11A | 06/03/2020 | yes | 261.0000 | | | | | |
| Barium, Total | ug/L | MW-11A | 10/07/2020 | | 234.0000 | | | 211.8462 | | |

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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 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Barium, Total | ug/L | MW-11A | 05/03/2021 | | 212.0000 | | | 211.8462 | | |
| Barium, Total | ug/L | MW-11A | 11/09/2021 | | 259.0000 | | | 226.0289 | | |
| Barium, Total | ug/L | MW-11A | 05/17/2022 | | 207.0000 | | | 211.8462 | | |
| Barium, Total | ug/L | MW-11A | 10/17/2022 | | 236.0000 | | | 211.8462 | | |
| Barium, Total | ug/L | MW-11A | 05/22/2023 | | 239.0000 | | | 211.8462 | | |
| Barium, Total | ug/L | MW-11A | 10/05/2023 | | 245.0000 | | | 212.0289 | | |
| Barium, Total | ug/L | MW-11A | 05/20/2024 | | 220.0000 | | | 211.8462 | | |
| Barium, Total | ug/L | MW-11A | 10/02/2024 | | 237.0000 | | | 211.8462 | | |
| Barium, Total | ug/L | MW-11A | 05/12/2025 | | 235.0000 | | | 211.8462 | | |
| Barium, Total | ug/L | MW-11A | 10/14/2025 | | 227.0000 | | | 211.8462 | | |
| Beryllium, Total | ug/L | MW-11A | 04/24/2008 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-11A | 05/21/2008 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-11A | 06/18/2008 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-11A | 08/13/2008 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-11A | 09/24/2008 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-11A | 04/27/2009 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-11A | 10/26/2009 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-11A | 12/17/2009 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-11A | 04/13/2010 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-11A | 10/18/2010 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-11A | 05/10/2011 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-11A | 10/19/2011 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-11A | 04/24/2012 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-11A | 10/25/2012 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-11A | 11/11/2013 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-11A | 11/12/2014 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-11A | 11/18/2015 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-11A | 06/16/2016 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-11A | 11/16/2016 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-11A | 05/30/2017 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-11A | 11/21/2017 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-11A | 05/31/2018 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-11A | 10/31/2018 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-11A | 05/28/2019 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-11A | 10/15/2019 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-11A | 06/03/2020 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-11A | 10/07/2020 | | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-11A | 05/03/2021 | | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-11A | 11/09/2021 | | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-11A | 05/17/2022 | | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-11A | 10/17/2022 | | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-11A | 05/22/2023 | | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-11A | 10/05/2023 | | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-11A | 05/20/2024 | | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-11A | 10/02/2024 | | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-11A | 05/12/2025 | | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-11A | 10/14/2025 | | 4.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-11A | 04/24/2008 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-11A | 05/21/2008 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-11A | 06/18/2008 | yes | 5.0000 | 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 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Cadmium, Total | ug/L | MW-11A | 08/13/2008 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-11A | 09/24/2008 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-11A | 04/27/2009 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-11A | 10/26/2009 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-11A | 12/17/2009 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-11A | 04/13/2010 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-11A | 10/18/2010 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-11A | 05/10/2011 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-11A | 10/19/2011 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-11A | 04/24/2012 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-11A | 10/25/2012 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-11A | 11/11/2013 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-11A | 11/12/2014 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-11A | 11/18/2015 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-11A | 06/16/2016 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-11A | 11/16/2016 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-11A | 05/30/2017 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-11A | 11/21/2017 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-11A | 05/31/2018 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-11A | 10/31/2018 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-11A | 05/28/2019 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-11A | 10/15/2019 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-11A | 06/03/2020 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-11A | 10/07/2020 | | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-11A | 05/03/2021 | | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-11A | 11/09/2021 | | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-11A | 05/17/2022 | | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-11A | 10/17/2022 | | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-11A | 05/22/2023 | | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-11A | 10/05/2023 | | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-11A | 05/20/2024 | | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-11A | 10/02/2024 | | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-11A | 05/12/2025 | | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-11A | 10/14/2025 | | 5.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-11A | 04/24/2008 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-11A | 05/21/2008 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-11A | 06/18/2008 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-11A | 08/13/2008 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-11A | 09/24/2008 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-11A | 04/27/2009 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-11A | 10/26/2009 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-11A | 12/17/2009 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-11A | 04/13/2010 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-11A | 10/18/2010 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-11A | 05/10/2011 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-11A | 10/19/2011 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-11A | 04/24/2012 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-11A | 10/25/2012 | yes | 23.0000 | | yes | | | * |
| Chromium, Total | ug/L | MW-11A | 11/11/2013 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-11A | 11/12/2014 | yes | 10.0000 | 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 | MW-11A | 11/18/2015 | yes | 13.0000 | | | | | |
| Chromium, Total | ug/L | MW-11A | 06/16/2016 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-11A | 11/16/2016 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-11A | 05/30/2017 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-11A | 11/21/2017 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-11A | 05/31/2018 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-11A | 10/31/2018 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-11A | 05/28/2019 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-11A | 10/15/2019 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-11A | 06/03/2020 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-11A | 10/07/2020 | | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-11A | 05/03/2021 | | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-11A | 11/09/2021 | | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-11A | 05/17/2022 | | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-11A | 10/17/2022 | | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-11A | 05/22/2023 | | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-11A | 10/05/2023 | | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-11A | 05/20/2024 | | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-11A | 10/02/2024 | | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-11A | 05/12/2025 | | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-11A | 10/14/2025 | | 10.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-11A | 04/24/2008 | yes | 10.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-11A | 05/21/2008 | yes | 10.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-11A | 06/18/2008 | yes | 10.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-11A | 08/13/2008 | yes | 10.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-11A | 09/24/2008 | yes | 10.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-11A | 04/27/2009 | yes | 10.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-11A | 10/26/2009 | yes | 10.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-11A | 12/17/2009 | yes | 10.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-11A | 04/13/2010 | yes | 10.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-11A | 10/18/2010 | yes | 10.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-11A | 05/10/2011 | yes | 10.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-11A | 10/19/2011 | yes | 10.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-11A | 04/24/2012 | yes | 10.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-11A | 10/25/2012 | yes | 11.0000 | | | | | |
| Cobalt, Total | ug/L | MW-11A | 11/11/2013 | yes | 10.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-11A | 11/12/2014 | yes | 10.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-11A | 11/18/2015 | yes | 6.3000 | | | | | |
| Cobalt, Total | ug/L | MW-11A | 06/16/2016 | yes | 2.8000 | ND | | | 10.0000 | *** |
| Cobalt, Total | ug/L | MW-11A | 11/16/2016 | yes | 2.8000 | ND | | | 10.0000 | *** |
| Cobalt, Total | ug/L | MW-11A | 05/30/2017 | yes | 2.8000 | ND | | | 10.0000 | *** |
| Cobalt, Total | ug/L | MW-11A | 11/21/2017 | yes | 2.8000 | ND | | | 10.0000 | *** |
| Cobalt, Total | ug/L | MW-11A | 05/31/2018 | yes | 2.8000 | ND | | | 10.0000 | *** |
| Cobalt, Total | ug/L | MW-11A | 10/31/2018 | yes | 2.8000 | ND | | | 10.0000 | *** |
| Cobalt, Total | ug/L | MW-11A | 05/28/2019 | yes | 2.1000 | ND | | | 10.0000 | *** |
| Cobalt, Total | ug/L | MW-11A | 10/15/2019 | yes | 2.1000 | ND | | | 10.0000 | *** |
| Cobalt, Total | ug/L | MW-11A | 06/03/2020 | yes | 2.0000 | ND | | | 10.0000 | *** |
| Cobalt, Total | ug/L | MW-11A | 10/07/2020 | | 2.1000 | ND | | | | |
| Cobalt, Total | ug/L | MW-11A | 05/03/2021 | | 2.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-11A | 11/09/2021 | | 2.0000 | 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 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Cobalt, Total | ug/L | MW-11A | 05/17/2022 | | 2.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-11A | 10/17/2022 | | 2.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-11A | 05/22/2023 | | 2.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-11A | 10/05/2023 | | 2.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-11A | 05/20/2024 | | 2.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-11A | 10/02/2024 | | 2.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-11A | 05/12/2025 | | 2.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-11A | 10/14/2025 | | 2.0000 | ND | | | | |
| Copper, Total | ug/L | MW-11A | 04/24/2008 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-11A | 05/21/2008 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-11A | 06/18/2008 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-11A | 08/13/2008 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-11A | 09/24/2008 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-11A | 04/27/2009 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-11A | 10/26/2009 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-11A | 12/17/2009 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-11A | 04/13/2010 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-11A | 10/18/2010 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-11A | 05/10/2011 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-11A | 10/19/2011 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-11A | 04/24/2012 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-11A | 10/25/2012 | yes | 21.0000 | | yes | | | * |
| Copper, Total | ug/L | MW-11A | 11/11/2013 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-11A | 11/12/2014 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-11A | 11/18/2015 | yes | 15.0000 | | | | | |
| Copper, Total | ug/L | MW-11A | 06/16/2016 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-11A | 11/16/2016 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-11A | 05/30/2017 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-11A | 11/21/2017 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-11A | 05/31/2018 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-11A | 10/31/2018 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-11A | 05/28/2019 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-11A | 10/15/2019 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-11A | 06/03/2020 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-11A | 10/07/2020 | | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-11A | 05/03/2021 | | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-11A | 11/09/2021 | | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-11A | 05/17/2022 | | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-11A | 10/17/2022 | | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-11A | 05/22/2023 | | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-11A | 10/05/2023 | | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-11A | 05/20/2024 | | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-11A | 10/02/2024 | | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-11A | 05/12/2025 | | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-11A | 10/14/2025 | | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-11A | 04/24/2008 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-11A | 05/21/2008 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-11A | 06/18/2008 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-11A | 08/13/2008 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-11A | 09/24/2008 | yes | 10.0000 | 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 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Lead, Total | ug/L | MW-11A | 04/27/2009 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-11A | 10/26/2009 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-11A | 12/17/2009 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-11A | 04/13/2010 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-11A | 10/18/2010 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-11A | 05/10/2011 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-11A | 10/19/2011 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-11A | 04/24/2012 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-11A | 10/25/2012 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-11A | 11/11/2013 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-11A | 11/12/2014 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-11A | 11/18/2015 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-11A | 06/16/2016 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-11A | 11/16/2016 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-11A | 05/30/2017 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-11A | 11/21/2017 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-11A | 05/31/2018 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-11A | 10/31/2018 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-11A | 05/28/2019 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-11A | 10/15/2019 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-11A | 06/03/2020 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-11A | 10/07/2020 | | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-11A | 05/03/2021 | | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-11A | 11/09/2021 | | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-11A | 05/17/2022 | | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-11A | 10/17/2022 | | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-11A | 05/22/2023 | | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-11A | 10/05/2023 | | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-11A | 05/20/2024 | | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-11A | 10/02/2024 | | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-11A | 05/12/2025 | | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-11A | 10/14/2025 | | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-11A | 04/24/2008 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-11A | 05/21/2008 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-11A | 06/18/2008 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-11A | 08/13/2008 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-11A | 09/24/2008 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-11A | 04/27/2009 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-11A | 10/26/2009 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-11A | 12/17/2009 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-11A | 04/13/2010 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-11A | 10/18/2010 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-11A | 05/10/2011 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-11A | 10/19/2011 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-11A | 04/24/2012 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-11A | 10/25/2012 | yes | 23.0000 | | yes | | | * |
| Nickel, Total | ug/L | MW-11A | 11/11/2013 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-11A | 11/12/2014 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-11A | 11/18/2015 | yes | 13.0000 | | | | | |
| Nickel, Total | ug/L | MW-11A | 06/16/2016 | yes | 10.0000 | ND | | | | |

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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 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Nickel, Total | ug/L | MW-11A | 11/16/2016 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-11A | 05/30/2017 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-11A | 11/21/2017 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-11A | 05/31/2018 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-11A | 10/31/2018 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-11A | 05/28/2019 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-11A | 10/15/2019 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-11A | 06/03/2020 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-11A | 10/07/2020 | | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-11A | 05/03/2021 | | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-11A | 11/09/2021 | | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-11A | 05/17/2022 | | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-11A | 10/17/2022 | | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-11A | 05/22/2023 | | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-11A | 10/05/2023 | | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-11A | 05/20/2024 | | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-11A | 10/02/2024 | | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-11A | 05/12/2025 | | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-11A | 10/14/2025 | | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-11A | 04/24/2008 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-11A | 05/21/2008 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-11A | 06/18/2008 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-11A | 08/13/2008 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-11A | 09/24/2008 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-11A | 04/27/2009 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-11A | 10/26/2009 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-11A | 12/17/2009 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-11A | 04/13/2010 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-11A | 10/18/2010 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-11A | 05/10/2011 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-11A | 10/19/2011 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-11A | 04/24/2012 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-11A | 10/25/2012 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-11A | 11/11/2013 | yes | 25.0000 | | | | | |
| Selenium, Total | ug/L | MW-11A | 11/12/2014 | yes | 67.0000 | | yes | | | * |
| Selenium, Total | ug/L | MW-11A | 11/18/2015 | yes | 44.0000 | | yes | | | * |
| Selenium, Total | ug/L | MW-11A | 06/16/2016 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-11A | 11/16/2016 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-11A | 05/30/2017 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-11A | 11/21/2017 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-11A | 05/31/2018 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-11A | 10/31/2018 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-11A | 05/28/2019 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-11A | 10/15/2019 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-11A | 06/03/2020 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-11A | 10/07/2020 | | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-11A | 05/03/2021 | | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-11A | 11/09/2021 | | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-11A | 05/17/2022 | | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-11A | 10/17/2022 | | 10.0000 | 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 | MW-11A | 05/22/2023 | | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-11A | 10/05/2023 | | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-11A | 05/20/2024 | | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-11A | 10/02/2024 | | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-11A | 05/12/2025 | | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-11A | 10/14/2025 | | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-11A | 04/24/2008 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-11A | 05/21/2008 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-11A | 06/18/2008 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-11A | 08/13/2008 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-11A | 09/24/2008 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-11A | 04/27/2009 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-11A | 10/26/2009 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-11A | 12/17/2009 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-11A | 04/13/2010 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-11A | 10/18/2010 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-11A | 05/10/2011 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-11A | 10/19/2011 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-11A | 04/24/2012 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-11A | 10/25/2012 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-11A | 11/11/2013 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-11A | 11/12/2014 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-11A | 11/18/2015 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-11A | 06/16/2016 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-11A | 11/16/2016 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-11A | 05/30/2017 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-11A | 11/21/2017 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-11A | 05/31/2018 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-11A | 10/31/2018 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-11A | 05/28/2019 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-11A | 10/15/2019 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-11A | 06/03/2020 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-11A | 10/07/2020 | | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-11A | 05/03/2021 | | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-11A | 11/09/2021 | | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-11A | 05/17/2022 | | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-11A | 10/17/2022 | | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-11A | 05/22/2023 | | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-11A | 10/05/2023 | | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-11A | 05/20/2024 | | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-11A | 10/02/2024 | | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-11A | 05/12/2025 | | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-11A | 10/14/2025 | | 10.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-11A | 04/24/2008 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-11A | 05/21/2008 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-11A | 06/18/2008 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-11A | 08/13/2008 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-11A | 09/24/2008 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-11A | 04/27/2009 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-11A | 10/26/2009 | yes | 2.0000 | 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 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Thallium, Total | ug/L | MW-11A | 12/17/2009 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-11A | 04/13/2010 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-11A | 10/18/2010 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-11A | 05/10/2011 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-11A | 10/19/2011 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-11A | 04/24/2012 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-11A | 10/25/2012 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-11A | 11/11/2013 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-11A | 11/12/2014 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-11A | 11/18/2015 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-11A | 06/16/2016 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-11A | 11/16/2016 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-11A | 05/30/2017 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-11A | 11/21/2017 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-11A | 05/31/2018 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-11A | 10/31/2018 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-11A | 05/28/2019 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-11A | 10/15/2019 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-11A | 06/03/2020 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-11A | 10/07/2020 | | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-11A | 05/03/2021 | | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-11A | 11/09/2021 | | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-11A | 05/17/2022 | | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-11A | 10/17/2022 | | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-11A | 05/22/2023 | | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-11A | 10/05/2023 | | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-11A | 05/20/2024 | | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-11A | 10/02/2024 | | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-11A | 05/12/2025 | | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-11A | 10/14/2025 | | 2.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-11A | 04/24/2008 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-11A | 05/21/2008 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-11A | 06/18/2008 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-11A | 08/13/2008 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-11A | 09/24/2008 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-11A | 04/27/2009 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-11A | 10/26/2009 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-11A | 12/17/2009 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-11A | 04/13/2010 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-11A | 10/18/2010 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-11A | 05/10/2011 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-11A | 10/19/2011 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-11A | 04/24/2012 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-11A | 10/25/2012 | yes | 55.0000 | | yes | | | * |
| Vanadium, Total | ug/L | MW-11A | 11/11/2013 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-11A | 11/12/2014 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-11A | 11/18/2015 | yes | 33.0000 | | | | | |
| Vanadium, Total | ug/L | MW-11A | 06/16/2016 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-11A | 11/16/2016 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-11A | 05/30/2017 | yes | 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 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Vanadium, Total | ug/L | MW-11A | 11/21/2017 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-11A | 05/31/2018 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-11A | 10/31/2018 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-11A | 05/28/2019 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-11A | 10/15/2019 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-11A | 06/03/2020 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-11A | 10/07/2020 | | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-11A | 05/03/2021 | | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-11A | 11/09/2021 | | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-11A | 05/17/2022 | | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-11A | 10/17/2022 | | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-11A | 05/22/2023 | | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-11A | 10/05/2023 | | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-11A | 05/20/2024 | | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-11A | 10/02/2024 | | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-11A | 05/12/2025 | | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-11A | 10/14/2025 | | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-11A | 04/24/2008 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-11A | 05/21/2008 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-11A | 06/18/2008 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-11A | 08/13/2008 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-11A | 09/24/2008 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-11A | 04/27/2009 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-11A | 10/26/2009 | yes | 34.0000 | | | | | |
| Zinc, Total | ug/L | MW-11A | 12/17/2009 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-11A | 04/13/2010 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-11A | 10/18/2010 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-11A | 05/10/2011 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-11A | 10/19/2011 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-11A | 04/24/2012 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-11A | 10/25/2012 | yes | 52.0000 | | yes | | | * |
| Zinc, Total | ug/L | MW-11A | 11/11/2013 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-11A | 11/12/2014 | yes | 26.0000 | | | | | |
| Zinc, Total | ug/L | MW-11A | 11/18/2015 | yes | 32.0000 | | | | | |
| Zinc, Total | ug/L | MW-11A | 06/16/2016 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-11A | 11/16/2016 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-11A | 05/30/2017 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-11A | 11/21/2017 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-11A | 05/31/2018 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-11A | 10/31/2018 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-11A | 05/28/2019 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-11A | 10/15/2019 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-11A | 06/03/2020 | yes | 50.0000 | ND | | | 20.0000 | *** |
| Zinc, Total | ug/L | MW-11A | 10/07/2020 | | 50.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-11A | 05/03/2021 | | 50.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-11A | 11/09/2021 | | 50.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-11A | 05/17/2022 | | 50.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-11A | 10/17/2022 | | 50.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-11A | 05/22/2023 | | 50.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-11A | 10/05/2023 | | 50.0000 | 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 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Zinc, Total | ug/L | MW-11A | 05/20/2024 | | 50.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-11A | 10/02/2024 | | 50.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-11A | 05/12/2025 | | 50.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-11A | 10/14/2025 | | 50.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-12A | 04/24/2008 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-12A | 05/21/2008 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-12A | 06/18/2008 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-12A | 08/13/2008 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-12A | 09/24/2008 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-12A | 04/27/2009 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-12A | 10/26/2009 | yes | 6.8000 | ND | | | 6.0000 | *** |
| Antimony, Total | ug/L | MW-12A | 12/17/2009 | yes | 6.8000 | ND | | | 6.0000 | *** |
| Antimony, Total | ug/L | MW-12A | 04/13/2010 | yes | 6.8000 | ND | | | 6.0000 | *** |
| Antimony, Total | ug/L | MW-12A | 07/09/2010 | yes | 6.8000 | ND | | | 6.0000 | *** |
| Antimony, Total | ug/L | MW-12A | 10/18/2010 | yes | 6.8000 | ND | | | 6.0000 | *** |
| Antimony, Total | ug/L | MW-12A | 05/09/2011 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-12A | 10/19/2011 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-12A | 04/24/2012 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-12A | 10/25/2012 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-12A | 05/07/2013 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-12A | 11/11/2013 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-12A | 05/13/2014 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-12A | 11/12/2014 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-12A | 05/27/2015 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-12A | 11/18/2015 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-12A | 06/16/2016 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-12A | 11/16/2016 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-12A | 05/30/2017 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-12A | 11/21/2017 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-12A | 05/31/2018 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-12A | 10/31/2018 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-12A | 05/28/2019 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-12A | 10/15/2019 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-12A | 06/03/2020 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-12A | 10/07/2020 | | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-12A | 05/03/2021 | | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-12A | 11/09/2021 | | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-12A | 05/17/2022 | | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-12A | 10/17/2022 | | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-12A | 06/08/2023 | | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-12A | 10/05/2023 | | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-12A | 05/20/2024 | | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-12A | 10/02/2024 | | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-12A | 05/12/2025 | | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-12A | 10/14/2025 | | 6.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-12A | 04/24/2008 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-12A | 05/21/2008 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-12A | 06/18/2008 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-12A | 08/13/2008 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-12A | 09/24/2008 | yes | 10.0000 | 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 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic, Total | ug/L | MW-12A | 04/27/2009 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-12A | 10/26/2009 | yes | 15.0000 | ND | | | 10.0000 | *** |
| Arsenic, Total | ug/L | MW-12A | 12/17/2009 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-12A | 04/13/2010 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-12A | 07/09/2010 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-12A | 10/18/2010 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-12A | 05/09/2011 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-12A | 10/19/2011 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-12A | 04/24/2012 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-12A | 10/25/2012 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-12A | 05/07/2013 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-12A | 11/11/2013 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-12A | 05/13/2014 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-12A | 11/12/2014 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-12A | 05/27/2015 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-12A | 11/18/2015 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-12A | 06/16/2016 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-12A | 11/16/2016 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-12A | 05/30/2017 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-12A | 11/21/2017 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-12A | 05/31/2018 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-12A | 10/31/2018 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-12A | 05/28/2019 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-12A | 10/15/2019 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-12A | 06/03/2020 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-12A | 10/07/2020 | | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-12A | 05/03/2021 | | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-12A | 11/09/2021 | | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-12A | 05/17/2022 | | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-12A | 10/17/2022 | | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-12A | 06/08/2023 | | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-12A | 10/05/2023 | | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-12A | 05/20/2024 | | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-12A | 10/02/2024 | | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-12A | 05/12/2025 | | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-12A | 10/14/2025 | | 10.0000 | ND | | | | |
| Barium, Total | ug/L | MW-12A | 04/24/2008 | yes | 210.0000 | | | | | |
| Barium, Total | ug/L | MW-12A | 05/21/2008 | yes | 210.0000 | | | | | |
| Barium, Total | ug/L | MW-12A | 06/18/2008 | yes | 200.0000 | | | | | |
| Barium, Total | ug/L | MW-12A | 08/13/2008 | yes | 200.0000 | | | | | |
| Barium, Total | ug/L | MW-12A | 09/24/2008 | yes | 240.0000 | | | | | |
| Barium, Total | ug/L | MW-12A | 04/27/2009 | yes | 230.0000 | | | | | |
| Barium, Total | ug/L | MW-12A | 10/26/2009 | yes | 241.0000 | | | | | |
| Barium, Total | ug/L | MW-12A | 12/17/2009 | yes | 211.5000 | | | | | |
| Barium, Total | ug/L | MW-12A | 04/13/2010 | yes | 215.0000 | | | | | |
| Barium, Total | ug/L | MW-12A | 07/09/2010 | yes | 213.0000 | | | | | |
| Barium, Total | ug/L | MW-12A | 10/18/2010 | yes | 186.0000 | | | | | |
| Barium, Total | ug/L | MW-12A | 05/09/2011 | yes | 230.0000 | | | | | |
| Barium, Total | ug/L | MW-12A | 10/19/2011 | yes | 190.0000 | | | | | |
| Barium, Total | ug/L | MW-12A | 04/24/2012 | yes | 220.0000 | | | | | |

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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 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Barium, Total | ug/L | MW-12A | 10/25/2012 | yes | 230.0000 | | | | | |
| Barium, Total | ug/L | MW-12A | 05/07/2013 | yes | 190.0000 | | | | | |
| Barium, Total | ug/L | MW-12A | 11/11/2013 | yes | 240.0000 | | | | | |
| Barium, Total | ug/L | MW-12A | 05/13/2014 | yes | 220.0000 | | | | | |
| Barium, Total | ug/L | MW-12A | 11/12/2014 | yes | 250.0000 | | | | | |
| Barium, Total | ug/L | MW-12A | 05/27/2015 | yes | 210.0000 | | | | | |
| Barium, Total | ug/L | MW-12A | 11/18/2015 | yes | 210.0000 | | | | | |
| Barium, Total | ug/L | MW-12A | 06/16/2016 | yes | 260.0000 | | | | | |
| Barium, Total | ug/L | MW-12A | 11/16/2016 | yes | 230.0000 | | | | | |
| Barium, Total | ug/L | MW-12A | 05/30/2017 | yes | 260.0000 | | | | | |
| Barium, Total | ug/L | MW-12A | 11/21/2017 | yes | 250.0000 | | | | | |
| Barium, Total | ug/L | MW-12A | 05/31/2018 | yes | 250.0000 | | | | | |
| Barium, Total | ug/L | MW-12A | 10/31/2018 | yes | 240.0000 | | | | | |
| Barium, Total | ug/L | MW-12A | 05/28/2019 | yes | 290.0000 | | | | | |
| Barium, Total | ug/L | MW-12A | 10/15/2019 | yes | 240.0000 | | | | | |
| Barium, Total | ug/L | MW-12A | 06/03/2020 | yes | 240.0000 | | | | | |
| Barium, Total | ug/L | MW-12A | 10/07/2020 | | 259.0000 | | | 241.0984 | | |
| Barium, Total | ug/L | MW-12A | 05/03/2021 | | 266.0000 | | | 262.3135 | | |
| Barium, Total | ug/L | MW-12A | 11/09/2021 | | 278.0000 | | | 295.5286 | | |
| Barium, Total | ug/L | MW-12A | 05/17/2022 | | 252.0000 | | | 302.7437 | | |
| Barium, Total | ug/L | MW-12A | 10/17/2022 | | 288.0000 | | | 345.9587 | | |
| Barium, Total | ug/L | MW-12A | 06/08/2023 | | 299.0000 | | | 400.1738 | | ** |
| Barium, Total | ug/L | MW-12A | 10/05/2023 | | 277.0000 | | | 378.1738 | | |
| Barium, Total | ug/L | MW-12A | 05/20/2024 | | 345.0000 | | | 478.3889 | | ** |
| Barium, Total | ug/L | MW-12A | 10/02/2024 | | 283.0000 | | | 416.3889 | | ** |
| Barium, Total | ug/L | MW-12A | 05/12/2025 | | 267.0000 | | | 400.3889 | | ** |
| Barium, Total | ug/L | MW-12A | 10/14/2025 | | 283.0000 | | | 416.3889 | | ** |
| Beryllium, Total | ug/L | MW-12A | 04/24/2008 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-12A | 05/21/2008 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-12A | 06/18/2008 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-12A | 08/13/2008 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-12A | 09/24/2008 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-12A | 04/27/2009 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-12A | 10/26/2009 | yes | 2.5000 | ND | | | 4.0000 | *** |
| Beryllium, Total | ug/L | MW-12A | 12/17/2009 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-12A | 04/13/2010 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-12A | 07/09/2010 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-12A | 10/18/2010 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-12A | 05/09/2011 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-12A | 10/19/2011 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-12A | 04/24/2012 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-12A | 10/25/2012 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-12A | 05/07/2013 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-12A | 11/11/2013 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-12A | 05/13/2014 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-12A | 11/12/2014 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-12A | 05/27/2015 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-12A | 11/18/2015 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-12A | 06/16/2016 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-12A | 11/16/2016 | 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 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Beryllium, Total | ug/L | MW-12A | 05/30/2017 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-12A | 11/21/2017 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-12A | 05/31/2018 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-12A | 10/31/2018 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-12A | 05/28/2019 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-12A | 10/15/2019 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-12A | 06/03/2020 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-12A | 10/07/2020 | | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-12A | 05/03/2021 | | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-12A | 11/09/2021 | | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-12A | 05/17/2022 | | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-12A | 10/17/2022 | | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-12A | 06/08/2023 | | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-12A | 10/05/2023 | | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-12A | 05/20/2024 | | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-12A | 10/02/2024 | | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-12A | 05/12/2025 | | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-12A | 10/14/2025 | | 4.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-12A | 04/24/2008 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-12A | 05/21/2008 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-12A | 06/18/2008 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-12A | 08/13/2008 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-12A | 09/24/2008 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-12A | 04/27/2009 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-12A | 10/26/2009 | yes | 3.0000 | ND | | | 5.0000 | *** |
| Cadmium, Total | ug/L | MW-12A | 12/17/2009 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-12A | 04/13/2010 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-12A | 07/09/2010 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-12A | 10/18/2010 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-12A | 05/09/2011 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-12A | 10/19/2011 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-12A | 04/24/2012 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-12A | 10/25/2012 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-12A | 05/07/2013 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-12A | 11/11/2013 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-12A | 05/13/2014 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-12A | 11/12/2014 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-12A | 05/27/2015 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-12A | 11/18/2015 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-12A | 06/16/2016 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-12A | 11/16/2016 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-12A | 05/30/2017 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-12A | 11/21/2017 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-12A | 05/31/2018 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-12A | 10/31/2018 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-12A | 05/28/2019 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-12A | 10/15/2019 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-12A | 06/03/2020 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-12A | 10/07/2020 | | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-12A | 05/03/2021 | | 5.0000 | ND | | | | |

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

## Table 2

## Analytical Data and CUSUM Summary

| Constituent | Units | Well | Date | Background | Result | | Outlier | CUSUM | Adjusted | |
|---|---|---|---|---|---|---|---|---|---|---|
| Cadmium, Total | ug/L | MW-12A | 11/09/2021 | | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-12A | 05/17/2022 | | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-12A | 10/17/2022 | | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-12A | 06/08/2023 | | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-12A | 10/05/2023 | | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-12A | 05/20/2024 | | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-12A | 10/02/2024 | | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-12A | 05/12/2025 | | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-12A | 10/14/2025 | | 5.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-12A | 04/24/2008 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-12A | 05/21/2008 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-12A | 06/18/2008 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-12A | 08/13/2008 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-12A | 09/24/2008 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-12A | 04/27/2009 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-12A | 10/26/2009 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-12A | 12/17/2009 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-12A | 04/13/2010 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-12A | 07/09/2010 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-12A | 10/18/2010 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-12A | 05/09/2011 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-12A | 10/19/2011 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-12A | 04/24/2012 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-12A | 10/25/2012 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-12A | 05/07/2013 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-12A | 11/11/2013 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-12A | 05/13/2014 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-12A | 11/12/2014 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-12A | 05/27/2015 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-12A | 11/18/2015 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-12A | 06/16/2016 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-12A | 11/16/2016 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-12A | 05/30/2017 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-12A | 11/21/2017 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-12A | 05/31/2018 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-12A | 10/31/2018 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-12A | 05/28/2019 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-12A | 10/15/2019 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-12A | 06/03/2020 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-12A | 10/07/2020 | | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-12A | 05/03/2021 | | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-12A | 11/09/2021 | | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-12A | 05/17/2022 | | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-12A | 10/17/2022 | | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-12A | 06/08/2023 | | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-12A | 10/05/2023 | | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-12A | 05/20/2024 | | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-12A | 10/02/2024 | | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-12A | 05/12/2025 | | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-12A | 10/14/2025 | | 10.0000 | ND | | | | |

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ND = Not detected, Result = detection limit.

## Table 2

## Analytical Data and CUSUM Summary

| Constituent | Units | Well | Date | Background | Result | | Outlier | CUSUM | Adjusted | |
|---|---|---|---|---|---|---|---|---|---|---|
| Cobalt, Total | ug/L | MW-12A | 04/24/2008 | yes | 10.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-12A | 05/21/2008 | yes | 10.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-12A | 06/18/2008 | yes | 10.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-12A | 08/13/2008 | yes | 10.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-12A | 09/24/2008 | yes | 10.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-12A | 04/27/2009 | yes | 10.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-12A | 10/26/2009 | yes | 6.5000 | ND | | | 10.0000 | *** |
| Cobalt, Total | ug/L | MW-12A | 12/17/2009 | yes | 10.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-12A | 04/13/2010 | yes | 10.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-12A | 07/09/2010 | yes | 10.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-12A | 10/18/2010 | yes | 10.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-12A | 05/09/2011 | yes | 10.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-12A | 10/19/2011 | yes | 10.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-12A | 04/24/2012 | yes | 10.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-12A | 10/25/2012 | yes | 10.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-12A | 05/07/2013 | yes | 10.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-12A | 11/11/2013 | yes | 10.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-12A | 05/13/2014 | yes | 10.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-12A | 11/12/2014 | yes | 10.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-12A | 05/27/2015 | yes | 2.8000 | ND | | | 10.0000 | *** |
| Cobalt, Total | ug/L | MW-12A | 11/18/2015 | yes | 2.8000 | ND | | | 10.0000 | *** |
| Cobalt, Total | ug/L | MW-12A | 06/16/2016 | yes | 2.8000 | ND | | | 10.0000 | *** |
| Cobalt, Total | ug/L | MW-12A | 11/16/2016 | yes | 2.8000 | ND | | | 10.0000 | *** |
| Cobalt, Total | ug/L | MW-12A | 05/30/2017 | yes | 2.8000 | ND | | | 10.0000 | *** |
| Cobalt, Total | ug/L | MW-12A | 11/21/2017 | yes | 2.8000 | ND | | | 10.0000 | *** |
| Cobalt, Total | ug/L | MW-12A | 05/31/2018 | yes | 2.8000 | ND | | | 10.0000 | *** |
| Cobalt, Total | ug/L | MW-12A | 10/31/2018 | yes | 2.8000 | ND | | | 10.0000 | *** |
| Cobalt, Total | ug/L | MW-12A | 05/28/2019 | yes | 2.1000 | ND | | | 10.0000 | *** |
| Cobalt, Total | ug/L | MW-12A | 10/15/2019 | yes | 2.1000 | ND | | | 10.0000 | *** |
| Cobalt, Total | ug/L | MW-12A | 06/03/2020 | yes | 2.0000 | ND | | | 10.0000 | *** |
| Cobalt, Total | ug/L | MW-12A | 10/07/2020 | | 2.1000 | ND | | | | |
| Cobalt, Total | ug/L | MW-12A | 05/03/2021 | | 2.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-12A | 11/09/2021 | | 2.0400 | | | | | |
| Cobalt, Total | ug/L | MW-12A | 05/17/2022 | | 2.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-12A | 10/17/2022 | | 2.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-12A | 06/08/2023 | | 2.3600 | | | | | |
| Cobalt, Total | ug/L | MW-12A | 10/05/2023 | | 2.1700 | | | | | |
| Cobalt, Total | ug/L | MW-12A | 05/20/2024 | | 2.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-12A | 10/02/2024 | | 2.4000 | | | | | |
| Cobalt, Total | ug/L | MW-12A | 05/12/2025 | | 2.2000 | | | | | |
| Cobalt, Total | ug/L | MW-12A | 10/14/2025 | | 2.5500 | | | | | |
| Copper, Total | ug/L | MW-12A | 04/24/2008 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-12A | 05/21/2008 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-12A | 06/18/2008 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-12A | 08/13/2008 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-12A | 09/24/2008 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-12A | 04/27/2009 | yes | 60.0000 | ND | yes | | | * |
| Copper, Total | ug/L | MW-12A | 10/26/2009 | yes | 7.9000 | | | | | |
| Copper, Total | ug/L | MW-12A | 12/17/2009 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-12A | 04/13/2010 | yes | 10.0000 | 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 | MW-12A | 07/09/2010 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-12A | 10/18/2010 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-12A | 05/09/2011 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-12A | 10/19/2011 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-12A | 04/24/2012 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-12A | 10/25/2012 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-12A | 05/07/2013 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-12A | 11/11/2013 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-12A | 05/13/2014 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-12A | 11/12/2014 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-12A | 05/27/2015 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-12A | 11/18/2015 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-12A | 06/16/2016 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-12A | 11/16/2016 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-12A | 05/30/2017 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-12A | 11/21/2017 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-12A | 05/31/2018 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-12A | 10/31/2018 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-12A | 05/28/2019 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-12A | 10/15/2019 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-12A | 06/03/2020 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-12A | 10/07/2020 | | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-12A | 05/03/2021 | | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-12A | 11/09/2021 | | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-12A | 05/17/2022 | | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-12A | 10/17/2022 | | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-12A | 06/08/2023 | | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-12A | 10/05/2023 | | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-12A | 05/20/2024 | | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-12A | 10/02/2024 | | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-12A | 05/12/2025 | | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-12A | 10/14/2025 | | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-12A | 04/24/2008 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-12A | 05/21/2008 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-12A | 06/18/2008 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-12A | 08/13/2008 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-12A | 09/24/2008 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-12A | 04/27/2009 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-12A | 10/26/2009 | yes | 7.5000 | ND | | | 10.0000 | *** |
| Lead, Total | ug/L | MW-12A | 12/17/2009 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-12A | 04/13/2010 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-12A | 07/09/2010 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-12A | 10/18/2010 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-12A | 05/09/2011 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-12A | 10/19/2011 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-12A | 04/24/2012 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-12A | 10/25/2012 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-12A | 05/07/2013 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-12A | 11/11/2013 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-12A | 05/13/2014 | yes | 10.0000 | 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 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Lead, Total | ug/L | MW-12A | 11/12/2014 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-12A | 05/27/2015 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-12A | 11/18/2015 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-12A | 06/16/2016 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-12A | 11/16/2016 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-12A | 05/30/2017 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-12A | 11/21/2017 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-12A | 05/31/2018 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-12A | 10/31/2018 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-12A | 05/28/2019 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-12A | 10/15/2019 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-12A | 06/03/2020 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-12A | 10/07/2020 | | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-12A | 05/03/2021 | | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-12A | 11/09/2021 | | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-12A | 05/17/2022 | | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-12A | 10/17/2022 | | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-12A | 06/08/2023 | | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-12A | 10/05/2023 | | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-12A | 05/20/2024 | | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-12A | 10/02/2024 | | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-12A | 05/12/2025 | | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-12A | 10/14/2025 | | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-12A | 04/24/2008 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-12A | 05/21/2008 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-12A | 06/18/2008 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-12A | 08/13/2008 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-12A | 09/24/2008 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-12A | 04/27/2009 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-12A | 10/26/2009 | yes | 7.0000 | ND | | | 10.0000 | *** |
| Nickel, Total | ug/L | MW-12A | 12/17/2009 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-12A | 04/13/2010 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-12A | 07/09/2010 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-12A | 10/18/2010 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-12A | 05/09/2011 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-12A | 10/19/2011 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-12A | 04/24/2012 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-12A | 10/25/2012 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-12A | 05/07/2013 | yes | 11.0000 | | | | | |
| Nickel, Total | ug/L | MW-12A | 11/11/2013 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-12A | 05/13/2014 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-12A | 11/12/2014 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-12A | 05/27/2015 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-12A | 11/18/2015 | yes | 11.0000 | | | | | |
| Nickel, Total | ug/L | MW-12A | 06/16/2016 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-12A | 11/16/2016 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-12A | 05/30/2017 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-12A | 11/21/2017 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-12A | 05/31/2018 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-12A | 10/31/2018 | yes | 10.0000 | | | | | |

* - 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 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Nickel, Total | ug/L | MW-12A | 05/28/2019 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-12A | 10/15/2019 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-12A | 06/03/2020 | yes | 10.6000 | | | | | |
| Nickel, Total | ug/L | MW-12A | 10/07/2020 | | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-12A | 05/03/2021 | | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-12A | 11/09/2021 | | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-12A | 05/17/2022 | | 10.9000 | | | | | |
| Nickel, Total | ug/L | MW-12A | 10/17/2022 | | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-12A | 06/08/2023 | | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-12A | 10/05/2023 | | 11.8000 | | | | | ** |
| Nickel, Total | ug/L | MW-12A | 05/20/2024 | | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-12A | 10/02/2024 | | 13.2000 | | | | | ** |
| Nickel, Total | ug/L | MW-12A | 05/12/2025 | | 14.5000 | | | | | ** |
| Nickel, Total | ug/L | MW-12A | 10/14/2025 | | 15.4000 | | | | | ** |
| Selenium, Total | ug/L | MW-12A | 04/24/2008 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-12A | 05/21/2008 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-12A | 06/18/2008 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-12A | 08/13/2008 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-12A | 09/24/2008 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-12A | 04/27/2009 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-12A | 10/26/2009 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-12A | 12/17/2009 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-12A | 04/13/2010 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-12A | 07/09/2010 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-12A | 10/18/2010 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-12A | 05/09/2011 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-12A | 10/19/2011 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-12A | 04/24/2012 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-12A | 10/25/2012 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-12A | 05/07/2013 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-12A | 11/11/2013 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-12A | 05/13/2014 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-12A | 11/12/2014 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-12A | 05/27/2015 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-12A | 11/18/2015 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-12A | 06/16/2016 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-12A | 11/16/2016 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-12A | 05/30/2017 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-12A | 11/21/2017 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-12A | 05/31/2018 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-12A | 10/31/2018 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-12A | 05/28/2019 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-12A | 10/15/2019 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-12A | 06/03/2020 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-12A | 10/07/2020 | | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-12A | 05/03/2021 | | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-12A | 11/09/2021 | | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-12A | 05/17/2022 | | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-12A | 10/17/2022 | | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-12A | 06/08/2023 | | 10.0000 | 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 | MW-12A | 10/05/2023 | | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-12A | 05/20/2024 | | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-12A | 10/02/2024 | | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-12A | 05/12/2025 | | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-12A | 10/14/2025 | | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-12A | 04/24/2008 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-12A | 05/21/2008 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-12A | 06/18/2008 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-12A | 08/13/2008 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-12A | 09/24/2008 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-12A | 04/27/2009 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-12A | 10/26/2009 | yes | 30.0000 | ND | | | 10.0000 | *** |
| Silver, Total | ug/L | MW-12A | 12/17/2009 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-12A | 04/13/2010 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-12A | 07/09/2010 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-12A | 10/18/2010 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-12A | 05/09/2011 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-12A | 10/19/2011 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-12A | 04/24/2012 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-12A | 10/25/2012 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-12A | 05/07/2013 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-12A | 11/11/2013 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-12A | 05/13/2014 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-12A | 11/12/2014 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-12A | 05/27/2015 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-12A | 11/18/2015 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-12A | 06/16/2016 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-12A | 11/16/2016 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-12A | 05/30/2017 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-12A | 11/21/2017 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-12A | 05/31/2018 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-12A | 10/31/2018 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-12A | 05/28/2019 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-12A | 10/15/2019 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-12A | 06/03/2020 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-12A | 10/07/2020 | | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-12A | 05/03/2021 | | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-12A | 11/09/2021 | | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-12A | 05/17/2022 | | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-12A | 10/17/2022 | | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-12A | 06/08/2023 | | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-12A | 10/05/2023 | | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-12A | 05/20/2024 | | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-12A | 10/02/2024 | | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-12A | 05/12/2025 | | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-12A | 10/14/2025 | | 10.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-12A | 04/24/2008 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-12A | 05/21/2008 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-12A | 06/18/2008 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-12A | 08/13/2008 | yes | 2.0000 | 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 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Thallium, Total | ug/L | MW-12A | 09/24/2008 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-12A | 04/27/2009 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-12A | 10/26/2009 | yes | 1.1000 | ND | | | 2.0000 | *** |
| Thallium, Total | ug/L | MW-12A | 12/17/2009 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-12A | 04/13/2010 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-12A | 07/09/2010 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-12A | 10/18/2010 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-12A | 05/09/2011 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-12A | 10/19/2011 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-12A | 04/24/2012 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-12A | 10/25/2012 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-12A | 05/07/2013 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-12A | 11/11/2013 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-12A | 05/13/2014 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-12A | 11/12/2014 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-12A | 05/27/2015 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-12A | 11/18/2015 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-12A | 06/16/2016 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-12A | 11/16/2016 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-12A | 05/30/2017 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-12A | 11/21/2017 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-12A | 05/31/2018 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-12A | 10/31/2018 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-12A | 05/28/2019 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-12A | 10/15/2019 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-12A | 06/03/2020 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-12A | 10/07/2020 | | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-12A | 05/03/2021 | | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-12A | 11/09/2021 | | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-12A | 05/17/2022 | | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-12A | 10/17/2022 | | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-12A | 06/08/2023 | | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-12A | 10/05/2023 | | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-12A | 05/20/2024 | | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-12A | 10/02/2024 | | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-12A | 05/12/2025 | | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-12A | 10/14/2025 | | 2.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-12A | 04/24/2008 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-12A | 05/21/2008 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-12A | 06/18/2008 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-12A | 08/13/2008 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-12A | 09/24/2008 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-12A | 04/27/2009 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-12A | 10/26/2009 | yes | 11.5000 | ND | | | 20.0000 | *** |
| Vanadium, Total | ug/L | MW-12A | 12/17/2009 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-12A | 04/13/2010 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-12A | 07/09/2010 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-12A | 10/18/2010 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-12A | 05/09/2011 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-12A | 10/19/2011 | yes | 20.0000 | 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 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Vanadium, Total | ug/L | MW-12A | 04/24/2012 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-12A | 10/25/2012 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-12A | 05/07/2013 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-12A | 11/11/2013 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-12A | 05/13/2014 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-12A | 11/12/2014 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-12A | 05/27/2015 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-12A | 11/18/2015 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-12A | 06/16/2016 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-12A | 11/16/2016 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-12A | 05/30/2017 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-12A | 11/21/2017 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-12A | 05/31/2018 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-12A | 10/31/2018 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-12A | 05/28/2019 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-12A | 10/15/2019 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-12A | 06/03/2020 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-12A | 10/07/2020 | | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-12A | 05/03/2021 | | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-12A | 11/09/2021 | | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-12A | 05/17/2022 | | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-12A | 10/17/2022 | | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-12A | 06/08/2023 | | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-12A | 10/05/2023 | | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-12A | 05/20/2024 | | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-12A | 10/02/2024 | | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-12A | 05/12/2025 | | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-12A | 10/14/2025 | | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-12A | 04/24/2008 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-12A | 05/21/2008 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-12A | 06/18/2008 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-12A | 08/13/2008 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-12A | 09/24/2008 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-12A | 04/27/2009 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-12A | 10/26/2009 | yes | 15.0000 | ND | | | 20.0000 | *** |
| Zinc, Total | ug/L | MW-12A | 12/17/2009 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-12A | 04/13/2010 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-12A | 07/09/2010 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-12A | 10/18/2010 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-12A | 05/09/2011 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-12A | 10/19/2011 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-12A | 04/24/2012 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-12A | 10/25/2012 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-12A | 05/07/2013 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-12A | 11/11/2013 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-12A | 05/13/2014 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-12A | 11/12/2014 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-12A | 05/27/2015 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-12A | 11/18/2015 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-12A | 06/16/2016 | yes | 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 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Zinc, Total | ug/L | MW-12A | 11/16/2016 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-12A | 05/30/2017 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-12A | 11/21/2017 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-12A | 05/31/2018 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-12A | 10/31/2018 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-12A | 05/28/2019 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-12A | 10/15/2019 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-12A | 06/03/2020 | yes | 50.0000 | ND | | | 20.0000 | *** |
| Zinc, Total | ug/L | MW-12A | 10/07/2020 | | 50.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-12A | 05/03/2021 | | 50.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-12A | 11/09/2021 | | 50.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-12A | 05/17/2022 | | 50.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-12A | 10/17/2022 | | 50.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-12A | 06/08/2023 | | 50.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-12A | 10/05/2023 | | 50.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-12A | 05/20/2024 | | 50.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-12A | 10/02/2024 | | 50.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-12A | 05/12/2025 | | 50.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-12A | 10/14/2025 | | 50.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-13A | 04/24/2008 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-13A | 05/21/2008 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-13A | 06/18/2008 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-13A | 08/13/2008 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-13A | 09/24/2008 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-13A | 04/27/2009 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-13A | 10/26/2009 | yes | 6.8000 | ND | | | 6.0000 | *** |
| Antimony, Total | ug/L | MW-13A | 12/17/2009 | yes | 6.8000 | ND | | | 6.0000 | *** |
| Antimony, Total | ug/L | MW-13A | 04/13/2010 | yes | 6.8000 | ND | | | 6.0000 | *** |
| Antimony, Total | ug/L | MW-13A | 10/18/2010 | yes | 6.8000 | ND | | | 6.0000 | *** |
| Antimony, Total | ug/L | MW-13A | 05/10/2011 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-13A | 10/19/2011 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-13A | 04/24/2012 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-13A | 10/25/2012 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-13A | 05/07/2013 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-13A | 11/11/2013 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-13A | 05/13/2014 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-13A | 11/12/2014 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-13A | 05/27/2015 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-13A | 11/18/2015 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-13A | 06/16/2016 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-13A | 11/16/2016 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-13A | 05/30/2017 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-13A | 11/21/2017 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-13A | 05/31/2018 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-13A | 10/31/2018 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-13A | 05/28/2019 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-13A | 10/15/2019 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-13A | 06/03/2020 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-13A | 10/07/2020 | | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-13A | 05/03/2021 | | 6.0000 | ND | | | | |

* - Outlier for that well and constituent.
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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 | MW-13A | 11/09/2021 | | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-13A | 05/17/2022 | | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-13A | 10/17/2022 | | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-13A | 06/08/2023 | | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-13A | 10/05/2023 | | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-13A | 05/20/2024 | | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-13A | 10/02/2024 | | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-13A | 05/12/2025 | | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-13A | 10/14/2025 | | 6.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-13A | 04/24/2008 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-13A | 05/21/2008 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-13A | 06/18/2008 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-13A | 08/13/2008 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-13A | 09/24/2008 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-13A | 04/27/2009 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-13A | 10/26/2009 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-13A | 12/17/2009 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-13A | 04/13/2010 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-13A | 10/18/2010 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-13A | 05/10/2011 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-13A | 10/19/2011 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-13A | 04/24/2012 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-13A | 10/25/2012 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-13A | 05/07/2013 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-13A | 11/11/2013 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-13A | 05/13/2014 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-13A | 11/12/2014 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-13A | 05/27/2015 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-13A | 11/18/2015 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-13A | 06/16/2016 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-13A | 11/16/2016 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-13A | 05/30/2017 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-13A | 11/21/2017 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-13A | 05/31/2018 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-13A | 10/31/2018 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-13A | 05/28/2019 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-13A | 10/15/2019 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-13A | 06/03/2020 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-13A | 10/07/2020 | | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-13A | 05/03/2021 | | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-13A | 11/09/2021 | | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-13A | 05/17/2022 | | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-13A | 10/17/2022 | | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-13A | 06/08/2023 | | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-13A | 10/05/2023 | | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-13A | 05/20/2024 | | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-13A | 10/02/2024 | | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-13A | 05/12/2025 | | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-13A | 10/14/2025 | | 10.0000 | ND | | | | |
| Barium, Total | ug/L | MW-13A | 04/24/2008 | yes | 170.0000 | | | | | |

* - 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 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Barium, Total | ug/L | MW-13A | 05/21/2008 | yes | 160.0000 | | | | | |
| Barium, Total | ug/L | MW-13A | 06/18/2008 | yes | 170.0000 | | | | | |
| Barium, Total | ug/L | MW-13A | 08/13/2008 | yes | 170.0000 | | | | | |
| Barium, Total | ug/L | MW-13A | 09/24/2008 | yes | 150.0000 | | | | | |
| Barium, Total | ug/L | MW-13A | 04/27/2009 | yes | 183.0000 | | | | | |
| Barium, Total | ug/L | MW-13A | 10/26/2009 | yes | 195.0000 | | | | | |
| Barium, Total | ug/L | MW-13A | 12/17/2009 | yes | 205.0000 | | | | | |
| Barium, Total | ug/L | MW-13A | 04/13/2010 | yes | 163.0000 | | | | | |
| Barium, Total | ug/L | MW-13A | 10/18/2010 | yes | 201.0000 | | | | | |
| Barium, Total | ug/L | MW-13A | 05/10/2011 | yes | 230.0000 | | | | | |
| Barium, Total | ug/L | MW-13A | 10/19/2011 | yes | 220.0000 | | | | | |
| Barium, Total | ug/L | MW-13A | 04/24/2012 | yes | 220.0000 | | | | | |
| Barium, Total | ug/L | MW-13A | 10/25/2012 | yes | 190.0000 | | | | | |
| Barium, Total | ug/L | MW-13A | 05/07/2013 | yes | 270.0000 | | | | | |
| Barium, Total | ug/L | MW-13A | 11/11/2013 | yes | 180.0000 | | | | | |
| Barium, Total | ug/L | MW-13A | 05/13/2014 | yes | 210.0000 | | | | | |
| Barium, Total | ug/L | MW-13A | 11/12/2014 | yes | 270.0000 | | | | | |
| Barium, Total | ug/L | MW-13A | 05/27/2015 | yes | 210.0000 | | | | | |
| Barium, Total | ug/L | MW-13A | 11/18/2015 | yes | 250.0000 | | | | | |
| Barium, Total | ug/L | MW-13A | 06/16/2016 | yes | 230.0000 | | | | | |
| Barium, Total | ug/L | MW-13A | 11/16/2016 | yes | 290.0000 | | | | | |
| Barium, Total | ug/L | MW-13A | 05/30/2017 | yes | 300.0000 | | | | | |
| Barium, Total | ug/L | MW-13A | 11/21/2017 | yes | 270.0000 | | | | | |
| Barium, Total | ug/L | MW-13A | 05/31/2018 | yes | 250.0000 | | | | | |
| Barium, Total | ug/L | MW-13A | 10/31/2018 | yes | 340.0000 | | | | | |
| Barium, Total | ug/L | MW-13A | 05/28/2019 | yes | 320.0000 | | | | | |
| Barium, Total | ug/L | MW-13A | 10/15/2019 | yes | 310.0000 | | | | | |
| Barium, Total | ug/L | MW-13A | 06/03/2020 | yes | 335.0000 | | | | | |
| Barium, Total | ug/L | MW-13A | 10/07/2020 | | 304.0000 | | | 261.8797 | | |
| Barium, Total | ug/L | MW-13A | 05/03/2021 | | 344.0000 | | | 334.0352 | | |
| Barium, Total | ug/L | MW-13A | 11/09/2021 | | 365.0000 | | | 427.1908 | | |
| Barium, Total | ug/L | MW-13A | 05/17/2022 | | 322.0000 | | | 477.3463 | | |
| Barium, Total | ug/L | MW-13A | 10/17/2022 | | 389.0000 | | | 594.5019 | | |
| Barium, Total | ug/L | MW-13A | 06/08/2023 | | 444.0000 | | | 766.6574 | | ** |
| Barium, Total | ug/L | MW-13A | 10/05/2023 | | 401.0000 | | | 723.6574 | | ** |
| Barium, Total | ug/L | MW-13A | 05/20/2024 | | 451.0000 | | | 773.6574 | | ** |
| Barium, Total | ug/L | MW-13A | 10/02/2024 | | 420.0000 | | | 742.6574 | | ** |
| Barium, Total | ug/L | MW-13A | 05/12/2025 | | 396.0000 | | | 718.6574 | | ** |
| Barium, Total | ug/L | MW-13A | 10/14/2025 | | 413.0000 | | | 735.6574 | | ** |
| Beryllium, Total | ug/L | MW-13A | 04/24/2008 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-13A | 05/21/2008 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-13A | 06/18/2008 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-13A | 08/13/2008 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-13A | 09/24/2008 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-13A | 04/27/2009 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-13A | 10/26/2009 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-13A | 12/17/2009 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-13A | 04/13/2010 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-13A | 10/18/2010 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-13A | 05/10/2011 | 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 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Beryllium, Total | ug/L | MW-13A | 10/19/2011 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-13A | 04/24/2012 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-13A | 10/25/2012 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-13A | 05/07/2013 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-13A | 11/11/2013 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-13A | 05/13/2014 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-13A | 11/12/2014 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-13A | 05/27/2015 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-13A | 11/18/2015 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-13A | 06/16/2016 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-13A | 11/16/2016 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-13A | 05/30/2017 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-13A | 11/21/2017 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-13A | 05/31/2018 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-13A | 10/31/2018 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-13A | 05/28/2019 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-13A | 10/15/2019 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-13A | 06/03/2020 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-13A | 10/07/2020 | | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-13A | 05/03/2021 | | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-13A | 11/09/2021 | | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-13A | 05/17/2022 | | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-13A | 10/17/2022 | | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-13A | 06/08/2023 | | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-13A | 10/05/2023 | | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-13A | 05/20/2024 | | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-13A | 10/02/2024 | | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-13A | 05/12/2025 | | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-13A | 10/14/2025 | | 4.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-13A | 04/24/2008 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-13A | 05/21/2008 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-13A | 06/18/2008 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-13A | 08/13/2008 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-13A | 09/24/2008 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-13A | 04/27/2009 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-13A | 10/26/2009 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-13A | 12/17/2009 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-13A | 04/13/2010 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-13A | 10/18/2010 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-13A | 05/10/2011 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-13A | 10/19/2011 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-13A | 04/24/2012 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-13A | 10/25/2012 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-13A | 05/07/2013 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-13A | 11/11/2013 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-13A | 05/13/2014 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-13A | 11/12/2014 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-13A | 05/27/2015 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-13A | 11/18/2015 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-13A | 06/16/2016 | yes | 5.0000 | 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 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Cadmium, Total | ug/L | MW-13A | 11/16/2016 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-13A | 05/30/2017 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-13A | 11/21/2017 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-13A | 05/31/2018 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-13A | 10/31/2018 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-13A | 05/28/2019 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-13A | 10/15/2019 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-13A | 06/03/2020 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-13A | 10/07/2020 | | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-13A | 05/03/2021 | | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-13A | 11/09/2021 | | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-13A | 05/17/2022 | | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-13A | 10/17/2022 | | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-13A | 06/08/2023 | | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-13A | 10/05/2023 | | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-13A | 05/20/2024 | | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-13A | 10/02/2024 | | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-13A | 05/12/2025 | | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-13A | 10/14/2025 | | 5.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-13A | 04/24/2008 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-13A | 05/21/2008 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-13A | 06/18/2008 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-13A | 08/13/2008 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-13A | 09/24/2008 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-13A | 04/27/2009 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-13A | 10/26/2009 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-13A | 12/17/2009 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-13A | 04/13/2010 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-13A | 10/18/2010 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-13A | 05/10/2011 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-13A | 10/19/2011 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-13A | 04/24/2012 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-13A | 10/25/2012 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-13A | 05/07/2013 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-13A | 11/11/2013 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-13A | 05/13/2014 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-13A | 11/12/2014 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-13A | 05/27/2015 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-13A | 11/18/2015 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-13A | 06/16/2016 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-13A | 11/16/2016 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-13A | 05/30/2017 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-13A | 11/21/2017 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-13A | 05/31/2018 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-13A | 10/31/2018 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-13A | 05/28/2019 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-13A | 10/15/2019 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-13A | 06/03/2020 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-13A | 10/07/2020 | | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-13A | 05/03/2021 | | 10.0000 | ND | | | | |

* - Outlier for that well and constituent.
** - Non-outlier detected sample Result and / or CUSUM value exceeds limit.
*** - ND value replaced with median RL.
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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 | MW-13A | 11/09/2021 | | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-13A | 05/17/2022 | | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-13A | 10/17/2022 | | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-13A | 06/08/2023 | | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-13A | 10/05/2023 | | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-13A | 05/20/2024 | | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-13A | 10/02/2024 | | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-13A | 05/12/2025 | | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-13A | 10/14/2025 | | 10.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-13A | 04/24/2008 | yes | 10.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-13A | 05/21/2008 | yes | 10.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-13A | 06/18/2008 | yes | 10.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-13A | 08/13/2008 | yes | 10.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-13A | 09/24/2008 | yes | 10.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-13A | 04/27/2009 | yes | 10.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-13A | 10/26/2009 | yes | 10.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-13A | 12/17/2009 | yes | 10.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-13A | 04/13/2010 | yes | 10.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-13A | 10/18/2010 | yes | 10.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-13A | 05/10/2011 | yes | 10.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-13A | 10/19/2011 | yes | 10.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-13A | 04/24/2012 | yes | 10.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-13A | 10/25/2012 | yes | 10.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-13A | 05/07/2013 | yes | 10.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-13A | 11/11/2013 | yes | 10.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-13A | 05/13/2014 | yes | 10.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-13A | 11/12/2014 | yes | 10.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-13A | 05/27/2015 | yes | 2.8000 | ND | | | 10.0000 | *** |
| Cobalt, Total | ug/L | MW-13A | 11/18/2015 | yes | 2.8000 | ND | | | 10.0000 | *** |
| Cobalt, Total | ug/L | MW-13A | 06/16/2016 | yes | 2.8000 | ND | | | 10.0000 | *** |
| Cobalt, Total | ug/L | MW-13A | 11/16/2016 | yes | 2.8000 | ND | | | 10.0000 | *** |
| Cobalt, Total | ug/L | MW-13A | 05/30/2017 | yes | 2.8000 | ND | | | 10.0000 | *** |
| Cobalt, Total | ug/L | MW-13A | 11/21/2017 | yes | 2.8000 | ND | | | 10.0000 | *** |
| Cobalt, Total | ug/L | MW-13A | 05/31/2018 | yes | 2.8000 | ND | | | 10.0000 | *** |
| Cobalt, Total | ug/L | MW-13A | 10/31/2018 | yes | 2.8000 | ND | | | 10.0000 | *** |
| Cobalt, Total | ug/L | MW-13A | 05/28/2019 | yes | 2.1000 | ND | | | 10.0000 | *** |
| Cobalt, Total | ug/L | MW-13A | 10/15/2019 | yes | 2.1000 | ND | | | 10.0000 | *** |
| Cobalt, Total | ug/L | MW-13A | 06/03/2020 | yes | 2.0000 | ND | | | 10.0000 | *** |
| Cobalt, Total | ug/L | MW-13A | 10/07/2020 | | 2.1000 | ND | | | | |
| Cobalt, Total | ug/L | MW-13A | 05/03/2021 | | 2.8300 | | | | | |
| Cobalt, Total | ug/L | MW-13A | 11/09/2021 | | 2.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-13A | 05/17/2022 | | 2.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-13A | 10/17/2022 | | 2.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-13A | 06/08/2023 | | 4.6500 | | | | | |
| Cobalt, Total | ug/L | MW-13A | 10/05/2023 | | 2.3700 | | | | | |
| Cobalt, Total | ug/L | MW-13A | 05/20/2024 | | 2.1700 | | | | | |
| Cobalt, Total | ug/L | MW-13A | 10/02/2024 | | 2.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-13A | 05/12/2025 | | 2.3700 | | | | | |
| Cobalt, Total | ug/L | MW-13A | 10/14/2025 | | 2.0000 | ND | | | | |
| Copper, Total | ug/L | MW-13A | 04/24/2008 | yes | 10.0000 | ND | | | | |

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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 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Copper, Total | ug/L | MW-13A | 05/21/2008 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-13A | 06/18/2008 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-13A | 08/13/2008 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-13A | 09/24/2008 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-13A | 04/27/2009 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-13A | 10/26/2009 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-13A | 12/17/2009 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-13A | 04/13/2010 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-13A | 10/18/2010 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-13A | 05/10/2011 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-13A | 10/19/2011 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-13A | 04/24/2012 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-13A | 10/25/2012 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-13A | 05/07/2013 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-13A | 11/11/2013 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-13A | 05/13/2014 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-13A | 11/12/2014 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-13A | 05/27/2015 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-13A | 11/18/2015 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-13A | 06/16/2016 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-13A | 11/16/2016 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-13A | 05/30/2017 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-13A | 11/21/2017 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-13A | 05/31/2018 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-13A | 10/31/2018 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-13A | 05/28/2019 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-13A | 10/15/2019 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-13A | 06/03/2020 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-13A | 10/07/2020 | | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-13A | 05/03/2021 | | 11.3000 | | | | | ** |
| Copper, Total | ug/L | MW-13A | 11/09/2021 | | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-13A | 05/17/2022 | | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-13A | 10/17/2022 | | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-13A | 06/08/2023 | | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-13A | 10/05/2023 | | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-13A | 05/20/2024 | | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-13A | 10/02/2024 | | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-13A | 05/12/2025 | | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-13A | 10/14/2025 | | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-13A | 04/24/2008 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-13A | 05/21/2008 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-13A | 06/18/2008 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-13A | 08/13/2008 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-13A | 09/24/2008 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-13A | 04/27/2009 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-13A | 10/26/2009 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-13A | 12/17/2009 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-13A | 04/13/2010 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-13A | 10/18/2010 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-13A | 05/10/2011 | yes | 10.0000 | 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 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Lead, Total | ug/L | MW-13A | 10/19/2011 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-13A | 04/24/2012 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-13A | 10/25/2012 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-13A | 05/07/2013 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-13A | 11/11/2013 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-13A | 05/13/2014 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-13A | 11/12/2014 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-13A | 05/27/2015 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-13A | 11/18/2015 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-13A | 06/16/2016 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-13A | 11/16/2016 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-13A | 05/30/2017 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-13A | 11/21/2017 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-13A | 05/31/2018 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-13A | 10/31/2018 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-13A | 05/28/2019 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-13A | 10/15/2019 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-13A | 06/03/2020 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-13A | 10/07/2020 | | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-13A | 05/03/2021 | | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-13A | 11/09/2021 | | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-13A | 05/17/2022 | | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-13A | 10/17/2022 | | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-13A | 06/08/2023 | | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-13A | 10/05/2023 | | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-13A | 05/20/2024 | | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-13A | 10/02/2024 | | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-13A | 05/12/2025 | | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-13A | 10/14/2025 | | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-13A | 04/24/2008 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-13A | 05/21/2008 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-13A | 06/18/2008 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-13A | 08/13/2008 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-13A | 09/24/2008 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-13A | 04/27/2009 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-13A | 10/26/2009 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-13A | 12/17/2009 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-13A | 04/13/2010 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-13A | 10/18/2010 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-13A | 05/10/2011 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-13A | 10/19/2011 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-13A | 04/24/2012 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-13A | 10/25/2012 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-13A | 05/07/2013 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-13A | 11/11/2013 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-13A | 05/13/2014 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-13A | 11/12/2014 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-13A | 05/27/2015 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-13A | 11/18/2015 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-13A | 06/16/2016 | yes | 10.0000 | 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 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Nickel, Total | ug/L | MW-13A | 11/16/2016 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-13A | 05/30/2017 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-13A | 11/21/2017 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-13A | 05/31/2018 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-13A | 10/31/2018 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-13A | 05/28/2019 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-13A | 10/15/2019 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-13A | 06/03/2020 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-13A | 10/07/2020 | | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-13A | 05/03/2021 | | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-13A | 11/09/2021 | | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-13A | 05/17/2022 | | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-13A | 10/17/2022 | | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-13A | 06/08/2023 | | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-13A | 10/05/2023 | | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-13A | 05/20/2024 | | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-13A | 10/02/2024 | | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-13A | 05/12/2025 | | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-13A | 10/14/2025 | | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-13A | 04/24/2008 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-13A | 05/21/2008 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-13A | 06/18/2008 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-13A | 08/13/2008 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-13A | 09/24/2008 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-13A | 04/27/2009 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-13A | 10/26/2009 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-13A | 12/17/2009 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-13A | 04/13/2010 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-13A | 10/18/2010 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-13A | 05/10/2011 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-13A | 10/19/2011 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-13A | 04/24/2012 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-13A | 10/25/2012 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-13A | 05/07/2013 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-13A | 11/11/2013 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-13A | 05/13/2014 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-13A | 11/12/2014 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-13A | 05/27/2015 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-13A | 11/18/2015 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-13A | 06/16/2016 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-13A | 11/16/2016 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-13A | 05/30/2017 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-13A | 11/21/2017 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-13A | 05/31/2018 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-13A | 10/31/2018 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-13A | 05/28/2019 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-13A | 10/15/2019 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-13A | 06/03/2020 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-13A | 10/07/2020 | | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-13A | 05/03/2021 | | 10.0000 | 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 | MW-13A | 11/09/2021 | | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-13A | 05/17/2022 | | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-13A | 10/17/2022 | | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-13A | 06/08/2023 | | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-13A | 10/05/2023 | | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-13A | 05/20/2024 | | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-13A | 10/02/2024 | | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-13A | 05/12/2025 | | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-13A | 10/14/2025 | | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-13A | 04/24/2008 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-13A | 05/21/2008 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-13A | 06/18/2008 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-13A | 08/13/2008 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-13A | 09/24/2008 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-13A | 04/27/2009 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-13A | 10/26/2009 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-13A | 12/17/2009 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-13A | 04/13/2010 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-13A | 10/18/2010 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-13A | 05/10/2011 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-13A | 10/19/2011 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-13A | 04/24/2012 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-13A | 10/25/2012 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-13A | 05/07/2013 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-13A | 11/11/2013 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-13A | 05/13/2014 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-13A | 11/12/2014 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-13A | 05/27/2015 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-13A | 11/18/2015 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-13A | 06/16/2016 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-13A | 11/16/2016 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-13A | 05/30/2017 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-13A | 11/21/2017 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-13A | 05/31/2018 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-13A | 10/31/2018 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-13A | 05/28/2019 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-13A | 10/15/2019 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-13A | 06/03/2020 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-13A | 10/07/2020 | | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-13A | 05/03/2021 | | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-13A | 11/09/2021 | | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-13A | 05/17/2022 | | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-13A | 10/17/2022 | | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-13A | 06/08/2023 | | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-13A | 10/05/2023 | | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-13A | 05/20/2024 | | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-13A | 10/02/2024 | | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-13A | 05/12/2025 | | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-13A | 10/14/2025 | | 10.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-13A | 04/24/2008 | yes | 2.0000 | ND | | | | |

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*** - ND value replaced with median RL.
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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 | MW-13A | 05/21/2008 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-13A | 06/18/2008 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-13A | 08/13/2008 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-13A | 09/24/2008 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-13A | 04/27/2009 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-13A | 10/26/2009 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-13A | 12/17/2009 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-13A | 04/13/2010 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-13A | 10/18/2010 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-13A | 05/10/2011 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-13A | 10/19/2011 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-13A | 04/24/2012 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-13A | 10/25/2012 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-13A | 05/07/2013 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-13A | 11/11/2013 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-13A | 05/13/2014 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-13A | 11/12/2014 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-13A | 05/27/2015 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-13A | 11/18/2015 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-13A | 06/16/2016 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-13A | 11/16/2016 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-13A | 05/30/2017 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-13A | 11/21/2017 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-13A | 05/31/2018 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-13A | 10/31/2018 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-13A | 05/28/2019 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-13A | 10/15/2019 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-13A | 06/03/2020 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-13A | 10/07/2020 | | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-13A | 05/03/2021 | | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-13A | 11/09/2021 | | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-13A | 05/17/2022 | | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-13A | 10/17/2022 | | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-13A | 06/08/2023 | | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-13A | 10/05/2023 | | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-13A | 05/20/2024 | | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-13A | 10/02/2024 | | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-13A | 05/12/2025 | | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-13A | 10/14/2025 | | 2.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-13A | 04/24/2008 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-13A | 05/21/2008 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-13A | 06/18/2008 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-13A | 08/13/2008 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-13A | 09/24/2008 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-13A | 04/27/2009 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-13A | 10/26/2009 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-13A | 12/17/2009 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-13A | 04/13/2010 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-13A | 10/18/2010 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-13A | 05/10/2011 | yes | 20.0000 | 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 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Vanadium, Total | ug/L | MW-13A | 10/19/2011 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-13A | 04/24/2012 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-13A | 10/25/2012 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-13A | 05/07/2013 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-13A | 11/11/2013 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-13A | 05/13/2014 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-13A | 11/12/2014 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-13A | 05/27/2015 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-13A | 11/18/2015 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-13A | 06/16/2016 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-13A | 11/16/2016 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-13A | 05/30/2017 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-13A | 11/21/2017 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-13A | 05/31/2018 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-13A | 10/31/2018 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-13A | 05/28/2019 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-13A | 10/15/2019 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-13A | 06/03/2020 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-13A | 10/07/2020 | | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-13A | 05/03/2021 | | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-13A | 11/09/2021 | | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-13A | 05/17/2022 | | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-13A | 10/17/2022 | | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-13A | 06/08/2023 | | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-13A | 10/05/2023 | | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-13A | 05/20/2024 | | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-13A | 10/02/2024 | | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-13A | 05/12/2025 | | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-13A | 10/14/2025 | | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-13A | 04/24/2008 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-13A | 05/21/2008 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-13A | 06/18/2008 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-13A | 08/13/2008 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-13A | 09/24/2008 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-13A | 04/27/2009 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-13A | 10/26/2009 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-13A | 12/17/2009 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-13A | 04/13/2010 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-13A | 10/18/2010 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-13A | 05/10/2011 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-13A | 10/19/2011 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-13A | 04/24/2012 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-13A | 10/25/2012 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-13A | 05/07/2013 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-13A | 11/11/2013 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-13A | 05/13/2014 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-13A | 11/12/2014 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-13A | 05/27/2015 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-13A | 11/18/2015 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-13A | 06/16/2016 | yes | 20.0000 | 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 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Zinc, Total | ug/L | MW-13A | 11/16/2016 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-13A | 05/30/2017 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-13A | 11/21/2017 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-13A | 05/31/2018 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-13A | 10/31/2018 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-13A | 05/28/2019 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-13A | 10/15/2019 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-13A | 06/03/2020 | yes | 50.0000 | ND | | | 20.0000 | *** |
| Zinc, Total | ug/L | MW-13A | 10/07/2020 | | 50.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-13A | 05/03/2021 | | 50.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-13A | 11/09/2021 | | 50.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-13A | 05/17/2022 | | 50.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-13A | 10/17/2022 | | 50.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-13A | 06/08/2023 | | 50.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-13A | 10/05/2023 | | 50.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-13A | 05/20/2024 | | 50.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-13A | 10/02/2024 | | 50.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-13A | 05/12/2025 | | 50.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-13A | 10/14/2025 | | 50.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-19A | 04/24/2008 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-19A | 05/21/2008 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-19A | 06/18/2008 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-19A | 08/13/2008 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-19A | 09/24/2008 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-19A | 04/27/2009 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-19A | 10/26/2009 | yes | 6.8000 | ND | | | 6.0000 | *** |
| Antimony, Total | ug/L | MW-19A | 12/17/2009 | yes | 6.8000 | ND | | | 6.0000 | *** |
| Antimony, Total | ug/L | MW-19A | 04/13/2010 | yes | 6.8000 | ND | | | 6.0000 | *** |
| Antimony, Total | ug/L | MW-19A | 07/09/2010 | yes | 6.8000 | ND | | | 6.0000 | *** |
| Antimony, Total | ug/L | MW-19A | 10/18/2010 | yes | 6.8000 | ND | | | 6.0000 | *** |
| Antimony, Total | ug/L | MW-19A | 05/09/2011 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-19A | 10/19/2011 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-19A | 04/24/2012 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-19A | 10/25/2012 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-19A | 05/07/2013 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-19A | 11/11/2013 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-19A | 05/13/2014 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-19A | 11/12/2014 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-19A | 05/27/2015 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-19A | 11/18/2015 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-19A | 06/16/2016 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-19A | 11/16/2016 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-19A | 05/30/2017 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-19A | 11/21/2017 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-19A | 05/31/2018 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-19A | 10/31/2018 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-19A | 05/28/2019 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-19A | 10/15/2019 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-19A | 06/03/2020 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-19A | 10/07/2020 | | 6.0000 | 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 | MW-19A | 05/03/2021 | | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-19A | 11/09/2021 | | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-19A | 05/17/2022 | | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-19A | 10/17/2022 | | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-19A | 05/22/2023 | | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-19A | 10/05/2023 | | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-19A | 05/20/2024 | | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-19A | 10/02/2024 | | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-19A | 05/12/2025 | | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-19A | 10/14/2025 | | 6.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-19A | 04/24/2008 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-19A | 05/21/2008 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-19A | 06/18/2008 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-19A | 08/13/2008 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-19A | 09/24/2008 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-19A | 04/27/2009 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-19A | 10/26/2009 | yes | 15.0000 | ND | | | 10.0000 | *** |
| Arsenic, Total | ug/L | MW-19A | 12/17/2009 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-19A | 04/13/2010 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-19A | 07/09/2010 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-19A | 10/18/2010 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-19A | 05/09/2011 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-19A | 10/19/2011 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-19A | 04/24/2012 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-19A | 10/25/2012 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-19A | 05/07/2013 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-19A | 11/11/2013 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-19A | 05/13/2014 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-19A | 11/12/2014 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-19A | 05/27/2015 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-19A | 11/18/2015 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-19A | 06/16/2016 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-19A | 11/16/2016 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-19A | 05/30/2017 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-19A | 11/21/2017 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-19A | 05/31/2018 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-19A | 10/31/2018 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-19A | 05/28/2019 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-19A | 10/15/2019 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-19A | 06/03/2020 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-19A | 10/07/2020 | | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-19A | 05/03/2021 | | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-19A | 11/09/2021 | | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-19A | 05/17/2022 | | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-19A | 10/17/2022 | | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-19A | 05/22/2023 | | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-19A | 10/05/2023 | | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-19A | 05/20/2024 | | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-19A | 10/02/2024 | | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-19A | 05/12/2025 | | 10.0000 | ND | | | | |

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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 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic, Total | ug/L | MW-19A | 10/14/2025 | | 10.0000 | ND | | | | |
| Barium, Total | ug/L | MW-19A | 04/24/2008 | yes | 180.0000 | | | | | |
| Barium, Total | ug/L | MW-19A | 05/21/2008 | yes | 150.0000 | | | | | |
| Barium, Total | ug/L | MW-19A | 06/18/2008 | yes | 150.0000 | | | | | |
| Barium, Total | ug/L | MW-19A | 08/13/2008 | yes | 140.0000 | | | | | |
| Barium, Total | ug/L | MW-19A | 09/24/2008 | yes | 150.0000 | | | | | |
| Barium, Total | ug/L | MW-19A | 04/27/2009 | yes | 137.0000 | | | | | |
| Barium, Total | ug/L | MW-19A | 10/26/2009 | yes | 133.0000 | | | | | |
| Barium, Total | ug/L | MW-19A | 12/17/2009 | yes | 134.0000 | | | | | |
| Barium, Total | ug/L | MW-19A | 04/13/2010 | yes | 129.0000 | | | | | |
| Barium, Total | ug/L | MW-19A | 07/09/2010 | yes | 154.0000 | | | | | |
| Barium, Total | ug/L | MW-19A | 10/18/2010 | yes | 144.0000 | | | | | |
| Barium, Total | ug/L | MW-19A | 05/09/2011 | yes | 150.0000 | | | | | |
| Barium, Total | ug/L | MW-19A | 10/19/2011 | yes | 170.0000 | | | | | |
| Barium, Total | ug/L | MW-19A | 04/24/2012 | yes | 150.0000 | | | | | |
| Barium, Total | ug/L | MW-19A | 10/25/2012 | yes | 150.0000 | | | | | |
| Barium, Total | ug/L | MW-19A | 05/07/2013 | yes | 130.0000 | | | | | |
| Barium, Total | ug/L | MW-19A | 11/11/2013 | yes | 130.0000 | | | | | |
| Barium, Total | ug/L | MW-19A | 05/13/2014 | yes | 170.0000 | | | | | |
| Barium, Total | ug/L | MW-19A | 11/12/2014 | yes | 170.0000 | | | | | |
| Barium, Total | ug/L | MW-19A | 05/27/2015 | yes | 120.0000 | | | | | |
| Barium, Total | ug/L | MW-19A | 11/18/2015 | yes | 100.0000 | | | | | |
| Barium, Total | ug/L | MW-19A | 06/16/2016 | yes | 170.0000 | | | | | |
| Barium, Total | ug/L | MW-19A | 11/16/2016 | yes | 220.0000 | | | | | |
| Barium, Total | ug/L | MW-19A | 05/30/2017 | yes | 170.0000 | | | | | |
| Barium, Total | ug/L | MW-19A | 11/21/2017 | yes | 160.0000 | | | | | |
| Barium, Total | ug/L | MW-19A | 05/31/2018 | yes | 150.0000 | | | | | |
| Barium, Total | ug/L | MW-19A | 10/31/2018 | yes | 160.0000 | | | | | |
| Barium, Total | ug/L | MW-19A | 05/28/2019 | yes | 160.0000 | | | | | |
| Barium, Total | ug/L | MW-19A | 10/15/2019 | yes | 170.0000 | | | | | |
| Barium, Total | ug/L | MW-19A | 06/03/2020 | yes | 153.0000 | | | | | |
| Barium, Total | ug/L | MW-19A | 10/07/2020 | | 146.0000 | | | 151.8000 | | |
| Barium, Total | ug/L | MW-19A | 05/03/2021 | | 133.0000 | | | 151.8000 | | |
| Barium, Total | ug/L | MW-19A | 11/09/2021 | | 168.0000 | | | 151.8000 | | |
| Barium, Total | ug/L | MW-19A | 05/17/2022 | | 136.0000 | | | 151.8000 | | |
| Barium, Total | ug/L | MW-19A | 10/17/2022 | | 151.0000 | | | 151.8000 | | |
| Barium, Total | ug/L | MW-19A | 05/22/2023 | | 138.0000 | | | 151.8000 | | |
| Barium, Total | ug/L | MW-19A | 10/05/2023 | | 156.0000 | | | 151.8000 | | |
| Barium, Total | ug/L | MW-19A | 05/20/2024 | | 150.0000 | | | 151.8000 | | |
| Barium, Total | ug/L | MW-19A | 10/02/2024 | | 166.0000 | | | 151.8000 | | |
| Barium, Total | ug/L | MW-19A | 05/12/2025 | | 208.0000 | | | 191.5690 | | |
| Barium, Total | ug/L | MW-19A | 10/14/2025 | | 186.0000 | | | 209.3381 | | |
| Beryllium, Total | ug/L | MW-19A | 04/24/2008 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-19A | 05/21/2008 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-19A | 06/18/2008 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-19A | 08/13/2008 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-19A | 09/24/2008 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-19A | 04/27/2009 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-19A | 10/26/2009 | yes | 2.5000 | ND | | | 4.0000 | *** |
| Beryllium, Total | ug/L | MW-19A | 12/17/2009 | yes | 4.0000 | ND | | | | |

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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 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Beryllium, Total | ug/L | MW-19A | 04/13/2010 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-19A | 07/09/2010 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-19A | 10/18/2010 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-19A | 05/09/2011 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-19A | 10/19/2011 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-19A | 04/24/2012 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-19A | 10/25/2012 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-19A | 05/07/2013 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-19A | 11/11/2013 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-19A | 05/13/2014 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-19A | 11/12/2014 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-19A | 05/27/2015 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-19A | 11/18/2015 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-19A | 06/16/2016 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-19A | 11/16/2016 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-19A | 05/30/2017 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-19A | 11/21/2017 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-19A | 05/31/2018 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-19A | 10/31/2018 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-19A | 05/28/2019 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-19A | 10/15/2019 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-19A | 06/03/2020 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-19A | 10/07/2020 | | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-19A | 05/03/2021 | | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-19A | 11/09/2021 | | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-19A | 05/17/2022 | | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-19A | 10/17/2022 | | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-19A | 05/22/2023 | | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-19A | 10/05/2023 | | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-19A | 05/20/2024 | | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-19A | 10/02/2024 | | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-19A | 05/12/2025 | | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-19A | 10/14/2025 | | 4.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-19A | 04/24/2008 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-19A | 05/21/2008 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-19A | 06/18/2008 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-19A | 08/13/2008 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-19A | 09/24/2008 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-19A | 04/27/2009 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-19A | 10/26/2009 | yes | 3.0000 | ND | | | 5.0000 | *** |
| Cadmium, Total | ug/L | MW-19A | 12/17/2009 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-19A | 04/13/2010 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-19A | 07/09/2010 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-19A | 10/18/2010 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-19A | 05/09/2011 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-19A | 10/19/2011 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-19A | 04/24/2012 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-19A | 10/25/2012 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-19A | 05/07/2013 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-19A | 11/11/2013 | yes | 5.0000 | 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 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Cadmium, Total | ug/L | MW-19A | 05/13/2014 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-19A | 11/12/2014 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-19A | 05/27/2015 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-19A | 11/18/2015 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-19A | 06/16/2016 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-19A | 11/16/2016 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-19A | 05/30/2017 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-19A | 11/21/2017 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-19A | 05/31/2018 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-19A | 10/31/2018 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-19A | 05/28/2019 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-19A | 10/15/2019 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-19A | 06/03/2020 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-19A | 10/07/2020 | | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-19A | 05/03/2021 | | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-19A | 11/09/2021 | | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-19A | 05/17/2022 | | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-19A | 10/17/2022 | | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-19A | 05/22/2023 | | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-19A | 10/05/2023 | | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-19A | 05/20/2024 | | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-19A | 10/02/2024 | | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-19A | 05/12/2025 | | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-19A | 10/14/2025 | | 5.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-19A | 04/24/2008 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-19A | 05/21/2008 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-19A | 06/18/2008 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-19A | 08/13/2008 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-19A | 09/24/2008 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-19A | 04/27/2009 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-19A | 10/26/2009 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-19A | 12/17/2009 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-19A | 04/13/2010 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-19A | 07/09/2010 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-19A | 10/18/2010 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-19A | 05/09/2011 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-19A | 10/19/2011 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-19A | 04/24/2012 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-19A | 10/25/2012 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-19A | 05/07/2013 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-19A | 11/11/2013 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-19A | 05/13/2014 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-19A | 11/12/2014 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-19A | 05/27/2015 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-19A | 11/18/2015 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-19A | 06/16/2016 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-19A | 11/16/2016 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-19A | 05/30/2017 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-19A | 11/21/2017 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-19A | 05/31/2018 | yes | 10.0000 | 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 | MW-19A | 10/31/2018 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-19A | 05/28/2019 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-19A | 10/15/2019 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-19A | 06/03/2020 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-19A | 10/07/2020 | | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-19A | 05/03/2021 | | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-19A | 11/09/2021 | | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-19A | 05/17/2022 | | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-19A | 10/17/2022 | | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-19A | 05/22/2023 | | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-19A | 10/05/2023 | | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-19A | 05/20/2024 | | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-19A | 10/02/2024 | | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-19A | 05/12/2025 | | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-19A | 10/14/2025 | | 10.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-19A | 04/24/2008 | yes | 10.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-19A | 05/21/2008 | yes | 10.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-19A | 06/18/2008 | yes | 10.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-19A | 08/13/2008 | yes | 10.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-19A | 09/24/2008 | yes | 10.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-19A | 04/27/2009 | yes | 10.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-19A | 10/26/2009 | yes | 6.5000 | ND | | | 10.0000 | *** |
| Cobalt, Total | ug/L | MW-19A | 12/17/2009 | yes | 10.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-19A | 04/13/2010 | yes | 10.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-19A | 07/09/2010 | yes | 10.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-19A | 10/18/2010 | yes | 10.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-19A | 05/09/2011 | yes | 10.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-19A | 10/19/2011 | yes | 10.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-19A | 04/24/2012 | yes | 10.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-19A | 10/25/2012 | yes | 10.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-19A | 05/07/2013 | yes | 10.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-19A | 11/11/2013 | yes | 10.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-19A | 05/13/2014 | yes | 10.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-19A | 11/12/2014 | yes | 10.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-19A | 05/27/2015 | yes | 2.8000 | ND | | | 10.0000 | *** |
| Cobalt, Total | ug/L | MW-19A | 11/18/2015 | yes | 2.8000 | ND | | | 10.0000 | *** |
| Cobalt, Total | ug/L | MW-19A | 06/16/2016 | yes | 2.8000 | ND | | | 10.0000 | *** |
| Cobalt, Total | ug/L | MW-19A | 11/16/2016 | yes | 2.8000 | ND | | | 10.0000 | *** |
| Cobalt, Total | ug/L | MW-19A | 05/30/2017 | yes | 2.8000 | ND | | | 10.0000 | *** |
| Cobalt, Total | ug/L | MW-19A | 11/21/2017 | yes | 2.8000 | ND | | | 10.0000 | *** |
| Cobalt, Total | ug/L | MW-19A | 05/31/2018 | yes | 2.8000 | ND | | | 10.0000 | *** |
| Cobalt, Total | ug/L | MW-19A | 10/31/2018 | yes | 2.8000 | ND | | | 10.0000 | *** |
| Cobalt, Total | ug/L | MW-19A | 05/28/2019 | yes | 2.1000 | ND | | | 10.0000 | *** |
| Cobalt, Total | ug/L | MW-19A | 10/15/2019 | yes | 2.1000 | ND | | | 10.0000 | *** |
| Cobalt, Total | ug/L | MW-19A | 06/03/2020 | yes | 2.0000 | ND | | | 10.0000 | *** |
| Cobalt, Total | ug/L | MW-19A | 10/07/2020 | | 2.1000 | ND | | | | |
| Cobalt, Total | ug/L | MW-19A | 05/03/2021 | | 2.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-19A | 11/09/2021 | | 2.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-19A | 05/17/2022 | | 2.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-19A | 10/17/2022 | | 2.0000 | ND | | | | |

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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 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Cobalt, Total | ug/L | MW-19A | 05/22/2023 | | 2.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-19A | 10/05/2023 | | 2.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-19A | 05/20/2024 | | 2.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-19A | 10/02/2024 | | 2.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-19A | 05/12/2025 | | 2.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-19A | 10/14/2025 | | 2.0000 | ND | | | | |
| Copper, Total | ug/L | MW-19A | 04/24/2008 | yes | 10.0000 | | | | | |
| Copper, Total | ug/L | MW-19A | 05/21/2008 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-19A | 06/18/2008 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-19A | 08/13/2008 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-19A | 09/24/2008 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-19A | 04/27/2009 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-19A | 10/26/2009 | yes | 7.0000 | ND | | | 10.0000 | *** |
| Copper, Total | ug/L | MW-19A | 12/17/2009 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-19A | 04/13/2010 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-19A | 07/09/2010 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-19A | 10/18/2010 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-19A | 05/09/2011 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-19A | 10/19/2011 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-19A | 04/24/2012 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-19A | 10/25/2012 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-19A | 05/07/2013 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-19A | 11/11/2013 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-19A | 05/13/2014 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-19A | 11/12/2014 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-19A | 05/27/2015 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-19A | 11/18/2015 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-19A | 06/16/2016 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-19A | 11/16/2016 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-19A | 05/30/2017 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-19A | 11/21/2017 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-19A | 05/31/2018 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-19A | 10/31/2018 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-19A | 05/28/2019 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-19A | 10/15/2019 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-19A | 06/03/2020 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-19A | 10/07/2020 | | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-19A | 05/03/2021 | | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-19A | 11/09/2021 | | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-19A | 05/17/2022 | | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-19A | 10/17/2022 | | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-19A | 05/22/2023 | | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-19A | 10/05/2023 | | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-19A | 05/20/2024 | | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-19A | 10/02/2024 | | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-19A | 05/12/2025 | | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-19A | 10/14/2025 | | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-19A | 04/24/2008 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-19A | 05/21/2008 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-19A | 06/18/2008 | yes | 10.0000 | 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 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Lead, Total | ug/L | MW-19A | 08/13/2008 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-19A | 09/24/2008 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-19A | 04/27/2009 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-19A | 10/26/2009 | yes | 7.5000 | ND | | | 10.0000 | *** |
| Lead, Total | ug/L | MW-19A | 12/17/2009 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-19A | 04/13/2010 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-19A | 07/09/2010 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-19A | 10/18/2010 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-19A | 05/09/2011 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-19A | 10/19/2011 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-19A | 04/24/2012 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-19A | 10/25/2012 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-19A | 05/07/2013 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-19A | 11/11/2013 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-19A | 05/13/2014 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-19A | 11/12/2014 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-19A | 05/27/2015 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-19A | 11/18/2015 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-19A | 06/16/2016 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-19A | 11/16/2016 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-19A | 05/30/2017 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-19A | 11/21/2017 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-19A | 05/31/2018 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-19A | 10/31/2018 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-19A | 05/28/2019 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-19A | 10/15/2019 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-19A | 06/03/2020 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-19A | 10/07/2020 | | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-19A | 05/03/2021 | | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-19A | 11/09/2021 | | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-19A | 05/17/2022 | | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-19A | 10/17/2022 | | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-19A | 05/22/2023 | | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-19A | 10/05/2023 | | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-19A | 05/20/2024 | | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-19A | 10/02/2024 | | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-19A | 05/12/2025 | | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-19A | 10/14/2025 | | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-19A | 04/24/2008 | yes | 18.0000 | | | | | |
| Nickel, Total | ug/L | MW-19A | 05/21/2008 | yes | 15.0000 | | | | | |
| Nickel, Total | ug/L | MW-19A | 06/18/2008 | yes | 14.0000 | | | | | |
| Nickel, Total | ug/L | MW-19A | 08/13/2008 | yes | 12.0000 | | | | | |
| Nickel, Total | ug/L | MW-19A | 09/24/2008 | yes | 12.0000 | | | | | |
| Nickel, Total | ug/L | MW-19A | 04/27/2009 | yes | 12.1000 | | | | | |
| Nickel, Total | ug/L | MW-19A | 10/26/2009 | yes | 21.5000 | | | | | |
| Nickel, Total | ug/L | MW-19A | 12/17/2009 | yes | 12.1000 | | | | | |
| Nickel, Total | ug/L | MW-19A | 04/13/2010 | yes | 12.5000 | | | | | |
| Nickel, Total | ug/L | MW-19A | 07/09/2010 | yes | 14.1000 | | | | | |
| Nickel, Total | ug/L | MW-19A | 10/18/2010 | yes | 12.4000 | | | | | |
| Nickel, Total | ug/L | MW-19A | 05/09/2011 | yes | 14.0000 | | | | | |

* - 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 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Nickel, Total | ug/L | MW-19A | 10/19/2011 | yes | 14.0000 | | | | | |
| Nickel, Total | ug/L | MW-19A | 04/24/2012 | yes | 13.0000 | | | | | |
| Nickel, Total | ug/L | MW-19A | 10/25/2012 | yes | 12.0000 | | | | | |
| Nickel, Total | ug/L | MW-19A | 05/07/2013 | yes | 11.0000 | | | | | |
| Nickel, Total | ug/L | MW-19A | 11/11/2013 | yes | 11.0000 | | | | | |
| Nickel, Total | ug/L | MW-19A | 05/13/2014 | yes | 13.0000 | | | | | |
| Nickel, Total | ug/L | MW-19A | 11/12/2014 | yes | 13.0000 | | | | | |
| Nickel, Total | ug/L | MW-19A | 05/27/2015 | yes | 11.0000 | | | | | |
| Nickel, Total | ug/L | MW-19A | 11/18/2015 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-19A | 06/16/2016 | yes | 14.0000 | | | | | |
| Nickel, Total | ug/L | MW-19A | 11/16/2016 | yes | 15.0000 | | | | | |
| Nickel, Total | ug/L | MW-19A | 05/30/2017 | yes | 16.0000 | | | | | |
| Nickel, Total | ug/L | MW-19A | 11/21/2017 | yes | 13.0000 | | | | | |
| Nickel, Total | ug/L | MW-19A | 05/31/2018 | yes | 15.0000 | | | | | |
| Nickel, Total | ug/L | MW-19A | 10/31/2018 | yes | 19.0000 | | | | | |
| Nickel, Total | ug/L | MW-19A | 05/28/2019 | yes | 16.0000 | | | | | |
| Nickel, Total | ug/L | MW-19A | 10/15/2019 | yes | 21.0000 | | | | | |
| Nickel, Total | ug/L | MW-19A | 06/03/2020 | yes | 22.1000 | | | | | |
| Nickel, Total | ug/L | MW-19A | 10/07/2020 | | 23.3000 | | | 20.9229 | | |
| Nickel, Total | ug/L | MW-19A | 05/03/2021 | | 18.1000 | | | 22.3525 | | |
| Nickel, Total | ug/L | MW-19A | 11/09/2021 | | 17.7000 | | | 23.3821 | | |
| Nickel, Total | ug/L | MW-19A | 05/17/2022 | | 20.4000 | | | 27.1116 | | |
| Nickel, Total | ug/L | MW-19A | 10/17/2022 | | 26.1000 | | | 36.5412 | | ** |
| Nickel, Total | ug/L | MW-19A | 05/22/2023 | | 18.3000 | | | 28.7412 | | |
| Nickel, Total | ug/L | MW-19A | 10/05/2023 | | 30.2000 | | | 42.2708 | | ** |
| Nickel, Total | ug/L | MW-19A | 05/20/2024 | | 26.1000 | | | 38.1708 | | ** |
| Nickel, Total | ug/L | MW-19A | 10/02/2024 | | 25.1000 | | | 37.1708 | | ** |
| Nickel, Total | ug/L | MW-19A | 05/12/2025 | | 38.6000 | | | 50.6708 | | ** |
| Nickel, Total | ug/L | MW-19A | 10/14/2025 | | 33.5000 | | | 45.5708 | | ** |
| Selenium, Total | ug/L | MW-19A | 04/24/2008 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-19A | 05/21/2008 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-19A | 06/18/2008 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-19A | 08/13/2008 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-19A | 09/24/2008 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-19A | 04/27/2009 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-19A | 10/26/2009 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-19A | 12/17/2009 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-19A | 04/13/2010 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-19A | 07/09/2010 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-19A | 10/18/2010 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-19A | 05/09/2011 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-19A | 10/19/2011 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-19A | 04/24/2012 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-19A | 10/25/2012 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-19A | 05/07/2013 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-19A | 11/11/2013 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-19A | 05/13/2014 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-19A | 11/12/2014 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-19A | 05/27/2015 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-19A | 11/18/2015 | yes | 10.0000 | 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 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Selenium, Total | ug/L | MW-19A | 06/16/2016 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-19A | 11/16/2016 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-19A | 05/30/2017 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-19A | 11/21/2017 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-19A | 05/31/2018 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-19A | 10/31/2018 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-19A | 05/28/2019 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-19A | 10/15/2019 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-19A | 06/03/2020 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-19A | 10/07/2020 | | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-19A | 05/03/2021 | | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-19A | 11/09/2021 | | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-19A | 05/17/2022 | | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-19A | 10/17/2022 | | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-19A | 05/22/2023 | | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-19A | 10/05/2023 | | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-19A | 05/20/2024 | | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-19A | 10/02/2024 | | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-19A | 05/12/2025 | | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-19A | 10/14/2025 | | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-19A | 04/24/2008 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-19A | 05/21/2008 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-19A | 06/18/2008 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-19A | 08/13/2008 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-19A | 09/24/2008 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-19A | 04/27/2009 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-19A | 10/26/2009 | yes | 30.0000 | ND | | | 10.0000 | *** |
| Silver, Total | ug/L | MW-19A | 12/17/2009 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-19A | 04/13/2010 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-19A | 07/09/2010 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-19A | 10/18/2010 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-19A | 05/09/2011 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-19A | 10/19/2011 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-19A | 04/24/2012 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-19A | 10/25/2012 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-19A | 05/07/2013 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-19A | 11/11/2013 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-19A | 05/13/2014 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-19A | 11/12/2014 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-19A | 05/27/2015 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-19A | 11/18/2015 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-19A | 06/16/2016 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-19A | 11/16/2016 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-19A | 05/30/2017 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-19A | 11/21/2017 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-19A | 05/31/2018 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-19A | 10/31/2018 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-19A | 05/28/2019 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-19A | 10/15/2019 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-19A | 06/03/2020 | yes | 10.0000 | 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 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Silver, Total | ug/L | MW-19A | 10/07/2020 | | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-19A | 05/03/2021 | | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-19A | 11/09/2021 | | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-19A | 05/17/2022 | | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-19A | 10/17/2022 | | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-19A | 05/22/2023 | | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-19A | 10/05/2023 | | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-19A | 05/20/2024 | | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-19A | 10/02/2024 | | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-19A | 05/12/2025 | | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-19A | 10/14/2025 | | 10.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-19A | 04/24/2008 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-19A | 05/21/2008 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-19A | 06/18/2008 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-19A | 08/13/2008 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-19A | 09/24/2008 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-19A | 04/27/2009 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-19A | 10/26/2009 | yes | 1.1000 | ND | | | 2.0000 | *** |
| Thallium, Total | ug/L | MW-19A | 12/17/2009 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-19A | 04/13/2010 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-19A | 07/09/2010 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-19A | 10/18/2010 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-19A | 05/09/2011 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-19A | 10/19/2011 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-19A | 04/24/2012 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-19A | 10/25/2012 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-19A | 05/07/2013 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-19A | 11/11/2013 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-19A | 05/13/2014 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-19A | 11/12/2014 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-19A | 05/27/2015 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-19A | 11/18/2015 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-19A | 06/16/2016 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-19A | 11/16/2016 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-19A | 05/30/2017 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-19A | 11/21/2017 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-19A | 05/31/2018 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-19A | 10/31/2018 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-19A | 05/28/2019 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-19A | 10/15/2019 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-19A | 06/03/2020 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-19A | 10/07/2020 | | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-19A | 05/03/2021 | | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-19A | 11/09/2021 | | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-19A | 05/17/2022 | | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-19A | 10/17/2022 | | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-19A | 05/22/2023 | | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-19A | 10/05/2023 | | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-19A | 05/20/2024 | | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-19A | 10/02/2024 | | 2.0000 | ND | | | | |

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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 | MW-19A | 05/12/2025 | | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-19A | 10/14/2025 | | 2.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-19A | 04/24/2008 | yes | 22.0000 | | | | | |
| Vanadium, Total | ug/L | MW-19A | 05/21/2008 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-19A | 06/18/2008 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-19A | 08/13/2008 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-19A | 09/24/2008 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-19A | 04/27/2009 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-19A | 10/26/2009 | yes | 11.5000 | ND | | | 20.0000 | *** |
| Vanadium, Total | ug/L | MW-19A | 12/17/2009 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-19A | 04/13/2010 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-19A | 07/09/2010 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-19A | 10/18/2010 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-19A | 05/09/2011 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-19A | 10/19/2011 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-19A | 04/24/2012 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-19A | 10/25/2012 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-19A | 05/07/2013 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-19A | 11/11/2013 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-19A | 05/13/2014 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-19A | 11/12/2014 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-19A | 05/27/2015 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-19A | 11/18/2015 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-19A | 06/16/2016 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-19A | 11/16/2016 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-19A | 05/30/2017 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-19A | 11/21/2017 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-19A | 05/31/2018 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-19A | 10/31/2018 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-19A | 05/28/2019 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-19A | 10/15/2019 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-19A | 06/03/2020 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-19A | 10/07/2020 | | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-19A | 05/03/2021 | | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-19A | 11/09/2021 | | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-19A | 05/17/2022 | | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-19A | 10/17/2022 | | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-19A | 05/22/2023 | | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-19A | 10/05/2023 | | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-19A | 05/20/2024 | | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-19A | 10/02/2024 | | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-19A | 05/12/2025 | | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-19A | 10/14/2025 | | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-19A | 04/24/2008 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-19A | 05/21/2008 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-19A | 06/18/2008 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-19A | 08/13/2008 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-19A | 09/24/2008 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-19A | 04/27/2009 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-19A | 10/26/2009 | yes | 15.0000 | ND | | | 20.0000 | *** |

* - 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 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Zinc, Total | ug/L | MW-19A | 12/17/2009 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-19A | 04/13/2010 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-19A | 07/09/2010 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-19A | 10/18/2010 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-19A | 05/09/2011 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-19A | 10/19/2011 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-19A | 04/24/2012 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-19A | 10/25/2012 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-19A | 05/07/2013 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-19A | 11/11/2013 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-19A | 05/13/2014 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-19A | 11/12/2014 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-19A | 05/27/2015 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-19A | 11/18/2015 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-19A | 06/16/2016 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-19A | 11/16/2016 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-19A | 05/30/2017 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-19A | 11/21/2017 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-19A | 05/31/2018 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-19A | 10/31/2018 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-19A | 05/28/2019 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-19A | 10/15/2019 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-19A | 06/03/2020 | yes | 50.0000 | ND | | | 20.0000 | *** |
| Zinc, Total | ug/L | MW-19A | 10/07/2020 | | 50.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-19A | 05/03/2021 | | 50.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-19A | 11/09/2021 | | 50.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-19A | 05/17/2022 | | 50.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-19A | 10/17/2022 | | 50.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-19A | 05/22/2023 | | 50.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-19A | 10/05/2023 | | 50.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-19A | 05/20/2024 | | 50.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-19A | 10/02/2024 | | 50.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-19A | 05/12/2025 | | 50.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-19A | 10/14/2025 | | 50.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-21A | 04/24/2008 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-21A | 05/21/2008 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-21A | 06/18/2008 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-21A | 08/13/2008 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-21A | 09/24/2008 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-21A | 04/27/2009 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-21A | 10/26/2009 | yes | 6.8000 | ND | | | 6.0000 | *** |
| Antimony, Total | ug/L | MW-21A | 12/17/2009 | yes | 6.8000 | ND | | | 6.0000 | *** |
| Antimony, Total | ug/L | MW-21A | 04/13/2010 | yes | 6.8000 | ND | | | 6.0000 | *** |
| Antimony, Total | ug/L | MW-21A | 10/18/2010 | yes | 6.8000 | ND | | | 6.0000 | *** |
| Antimony, Total | ug/L | MW-21A | 05/10/2011 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-21A | 10/19/2011 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-21A | 04/24/2012 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-21A | 10/25/2012 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-21A | 05/07/2013 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-21A | 11/11/2013 | yes | 6.0000 | 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 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Antimony, Total | ug/L | MW-21A | 05/13/2014 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-21A | 11/12/2014 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-21A | 05/27/2015 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-21A | 11/18/2015 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-21A | 06/16/2016 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-21A | 11/16/2016 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-21A | 05/30/2017 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-21A | 11/21/2017 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-21A | 05/31/2018 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-21A | 10/31/2018 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-21A | 05/28/2019 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-21A | 10/15/2019 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-21A | 06/03/2020 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-21A | 10/07/2020 | | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-21A | 05/03/2021 | | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-21A | 11/09/2021 | | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-21A | 05/17/2022 | | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-21A | 10/17/2022 | | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-21A | 06/08/2023 | | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-21A | 10/05/2023 | | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-21A | 05/20/2024 | | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-21A | 10/02/2024 | | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-21A | 05/12/2025 | | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-21A | 10/14/2025 | | 6.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-21A | 04/24/2008 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-21A | 05/21/2008 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-21A | 06/18/2008 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-21A | 08/13/2008 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-21A | 09/24/2008 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-21A | 04/27/2009 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-21A | 10/26/2009 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-21A | 12/17/2009 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-21A | 04/13/2010 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-21A | 10/18/2010 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-21A | 05/10/2011 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-21A | 10/19/2011 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-21A | 04/24/2012 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-21A | 10/25/2012 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-21A | 05/07/2013 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-21A | 11/11/2013 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-21A | 05/13/2014 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-21A | 11/12/2014 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-21A | 05/27/2015 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-21A | 11/18/2015 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-21A | 06/16/2016 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-21A | 11/16/2016 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-21A | 05/30/2017 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-21A | 11/21/2017 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-21A | 05/31/2018 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-21A | 10/31/2018 | yes | 10.0000 | 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 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic, Total | ug/L | MW-21A | 05/28/2019 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-21A | 10/15/2019 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-21A | 06/03/2020 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-21A | 10/07/2020 | | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-21A | 05/03/2021 | | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-21A | 11/09/2021 | | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-21A | 05/17/2022 | | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-21A | 10/17/2022 | | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-21A | 06/08/2023 | | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-21A | 10/05/2023 | | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-21A | 05/20/2024 | | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-21A | 10/02/2024 | | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-21A | 05/12/2025 | | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-21A | 10/14/2025 | | 10.0000 | ND | | | | |
| Barium, Total | ug/L | MW-21A | 04/24/2008 | yes | 220.0000 | | | | | |
| Barium, Total | ug/L | MW-21A | 05/21/2008 | yes | 210.0000 | | | | | |
| Barium, Total | ug/L | MW-21A | 06/18/2008 | yes | 210.0000 | | | | | |
| Barium, Total | ug/L | MW-21A | 08/13/2008 | yes | 230.0000 | | | | | |
| Barium, Total | ug/L | MW-21A | 09/24/2008 | yes | 230.0000 | | | | | |
| Barium, Total | ug/L | MW-21A | 04/27/2009 | yes | 181.0000 | | | | | |
| Barium, Total | ug/L | MW-21A | 10/26/2009 | yes | 235.0000 | | | | | |
| Barium, Total | ug/L | MW-21A | 12/17/2009 | yes | 231.0000 | | | | | |
| Barium, Total | ug/L | MW-21A | 04/13/2010 | yes | 190.0000 | | | | | |
| Barium, Total | ug/L | MW-21A | 10/18/2010 | yes | 213.0000 | | | | | |
| Barium, Total | ug/L | MW-21A | 05/10/2011 | yes | 240.0000 | | | | | |
| Barium, Total | ug/L | MW-21A | 10/19/2011 | yes | 260.0000 | | | | | |
| Barium, Total | ug/L | MW-21A | 04/24/2012 | yes | 220.0000 | | | | | |
| Barium, Total | ug/L | MW-21A | 10/25/2012 | yes | 220.0000 | | | | | |
| Barium, Total | ug/L | MW-21A | 05/07/2013 | yes | 220.0000 | | | | | |
| Barium, Total | ug/L | MW-21A | 11/11/2013 | yes | 220.0000 | | | | | |
| Barium, Total | ug/L | MW-21A | 05/13/2014 | yes | 220.0000 | | | | | |
| Barium, Total | ug/L | MW-21A | 11/12/2014 | yes | 270.0000 | | | | | |
| Barium, Total | ug/L | MW-21A | 05/27/2015 | yes | 190.0000 | | | | | |
| Barium, Total | ug/L | MW-21A | 11/18/2015 | yes | 240.0000 | | | | | |
| Barium, Total | ug/L | MW-21A | 06/16/2016 | yes | 240.0000 | | | | | |
| Barium, Total | ug/L | MW-21A | 11/16/2016 | yes | 250.0000 | | | | | |
| Barium, Total | ug/L | MW-21A | 05/30/2017 | yes | 250.0000 | | | | | |
| Barium, Total | ug/L | MW-21A | 11/21/2017 | yes | 300.0000 | | | | | |
| Barium, Total | ug/L | MW-21A | 05/31/2018 | yes | 260.0000 | | | | | |
| Barium, Total | ug/L | MW-21A | 10/31/2018 | yes | 270.0000 | | | | | |
| Barium, Total | ug/L | MW-21A | 05/28/2019 | yes | 310.0000 | | | | | |
| Barium, Total | ug/L | MW-21A | 10/15/2019 | yes | 310.0000 | | | | | |
| Barium, Total | ug/L | MW-21A | 06/03/2020 | yes | 286.0000 | | | | | |
| Barium, Total | ug/L | MW-21A | 10/07/2020 | | 294.0000 | | | 268.6485 | | |
| Barium, Total | ug/L | MW-21A | 05/03/2021 | | 279.0000 | | | 283.4694 | | |
| Barium, Total | ug/L | MW-21A | 11/09/2021 | | 273.0000 | | | 292.2903 | | |
| Barium, Total | ug/L | MW-21A | 05/17/2022 | | 247.0000 | | | 275.1112 | | |
| Barium, Total | ug/L | MW-21A | 10/17/2022 | | 285.0000 | | | 295.9321 | | |
| Barium, Total | ug/L | MW-21A | 06/08/2023 | | 277.0000 | | | 308.7530 | | |
| Barium, Total | ug/L | MW-21A | 10/05/2023 | | 292.0000 | | | 336.5739 | | |

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## Table 2

## Analytical Data and CUSUM Summary

| Constituent | Units | Well | Date | Background | Result | | Outlier | CUSUM | Adjusted | |
|---|---|---|---|---|---|---|---|---|---|---|
| Barium, Total | ug/L | MW-21A | 05/20/2024 | | 269.0000 | | | 341.3948 | | |
| Barium, Total | ug/L | MW-21A | 10/02/2024 | | 290.0000 | | | 367.2157 | | |
| Barium, Total | ug/L | MW-21A | 05/12/2025 | | 296.0000 | | | 399.0366 | | |
| Barium, Total | ug/L | MW-21A | 10/14/2025 | | 291.0000 | | | 425.8575 | | |
| Beryllium, Total | ug/L | MW-21A | 04/24/2008 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-21A | 05/21/2008 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-21A | 06/18/2008 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-21A | 08/13/2008 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-21A | 09/24/2008 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-21A | 04/27/2009 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-21A | 10/26/2009 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-21A | 12/17/2009 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-21A | 04/13/2010 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-21A | 10/18/2010 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-21A | 05/10/2011 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-21A | 10/19/2011 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-21A | 04/24/2012 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-21A | 10/25/2012 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-21A | 05/07/2013 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-21A | 11/11/2013 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-21A | 05/13/2014 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-21A | 11/12/2014 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-21A | 05/27/2015 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-21A | 11/18/2015 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-21A | 06/16/2016 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-21A | 11/16/2016 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-21A | 05/30/2017 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-21A | 11/21/2017 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-21A | 05/31/2018 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-21A | 10/31/2018 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-21A | 05/28/2019 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-21A | 10/15/2019 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-21A | 06/03/2020 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-21A | 10/07/2020 | | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-21A | 05/03/2021 | | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-21A | 11/09/2021 | | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-21A | 05/17/2022 | | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-21A | 10/17/2022 | | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-21A | 06/08/2023 | | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-21A | 10/05/2023 | | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-21A | 05/20/2024 | | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-21A | 10/02/2024 | | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-21A | 05/12/2025 | | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-21A | 10/14/2025 | | 4.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-21A | 04/24/2008 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-21A | 05/21/2008 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-21A | 06/18/2008 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-21A | 08/13/2008 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-21A | 09/24/2008 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-21A | 04/27/2009 | yes | 5.0000 | 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 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Cadmium, Total | ug/L | MW-21A | 10/26/2009 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-21A | 12/17/2009 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-21A | 04/13/2010 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-21A | 10/18/2010 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-21A | 05/10/2011 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-21A | 10/19/2011 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-21A | 04/24/2012 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-21A | 10/25/2012 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-21A | 05/07/2013 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-21A | 11/11/2013 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-21A | 05/13/2014 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-21A | 11/12/2014 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-21A | 05/27/2015 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-21A | 11/18/2015 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-21A | 06/16/2016 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-21A | 11/16/2016 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-21A | 05/30/2017 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-21A | 11/21/2017 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-21A | 05/31/2018 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-21A | 10/31/2018 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-21A | 05/28/2019 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-21A | 10/15/2019 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-21A | 06/03/2020 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-21A | 10/07/2020 | | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-21A | 05/03/2021 | | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-21A | 11/09/2021 | | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-21A | 05/17/2022 | | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-21A | 10/17/2022 | | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-21A | 06/08/2023 | | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-21A | 10/05/2023 | | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-21A | 05/20/2024 | | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-21A | 10/02/2024 | | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-21A | 05/12/2025 | | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-21A | 10/14/2025 | | 5.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-21A | 04/24/2008 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-21A | 05/21/2008 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-21A | 06/18/2008 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-21A | 08/13/2008 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-21A | 09/24/2008 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-21A | 04/27/2009 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-21A | 10/26/2009 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-21A | 12/17/2009 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-21A | 04/13/2010 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-21A | 10/18/2010 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-21A | 05/10/2011 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-21A | 10/19/2011 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-21A | 04/24/2012 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-21A | 10/25/2012 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-21A | 05/07/2013 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-21A | 11/11/2013 | yes | 10.0000 | 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 | MW-21A | 05/13/2014 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-21A | 11/12/2014 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-21A | 05/27/2015 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-21A | 11/18/2015 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-21A | 06/16/2016 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-21A | 11/16/2016 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-21A | 05/30/2017 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-21A | 11/21/2017 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-21A | 05/31/2018 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-21A | 10/31/2018 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-21A | 05/28/2019 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-21A | 10/15/2019 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-21A | 06/03/2020 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-21A | 10/07/2020 | | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-21A | 05/03/2021 | | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-21A | 11/09/2021 | | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-21A | 05/17/2022 | | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-21A | 10/17/2022 | | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-21A | 06/08/2023 | | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-21A | 10/05/2023 | | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-21A | 05/20/2024 | | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-21A | 10/02/2024 | | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-21A | 05/12/2025 | | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-21A | 10/14/2025 | | 10.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-21A | 04/24/2008 | yes | 10.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-21A | 05/21/2008 | yes | 10.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-21A | 06/18/2008 | yes | 10.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-21A | 08/13/2008 | yes | 10.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-21A | 09/24/2008 | yes | 10.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-21A | 04/27/2009 | yes | 10.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-21A | 10/26/2009 | yes | 10.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-21A | 12/17/2009 | yes | 10.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-21A | 04/13/2010 | yes | 10.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-21A | 10/18/2010 | yes | 10.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-21A | 05/10/2011 | yes | 10.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-21A | 10/19/2011 | yes | 10.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-21A | 04/24/2012 | yes | 10.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-21A | 10/25/2012 | yes | 10.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-21A | 05/07/2013 | yes | 10.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-21A | 11/11/2013 | yes | 10.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-21A | 05/13/2014 | yes | 10.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-21A | 11/12/2014 | yes | 10.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-21A | 05/27/2015 | yes | 2.8000 | ND | | | 10.0000 | *** |
| Cobalt, Total | ug/L | MW-21A | 11/18/2015 | yes | 2.8000 | ND | | | 10.0000 | *** |
| Cobalt, Total | ug/L | MW-21A | 06/16/2016 | yes | 2.8000 | ND | | | 10.0000 | *** |
| Cobalt, Total | ug/L | MW-21A | 11/16/2016 | yes | 2.8000 | ND | | | 10.0000 | *** |
| Cobalt, Total | ug/L | MW-21A | 05/30/2017 | yes | 2.8000 | ND | | | 10.0000 | *** |
| Cobalt, Total | ug/L | MW-21A | 11/21/2017 | yes | 2.8000 | ND | | | 10.0000 | *** |
| Cobalt, Total | ug/L | MW-21A | 05/31/2018 | yes | 2.8000 | ND | | | 10.0000 | *** |
| Cobalt, Total | ug/L | MW-21A | 10/31/2018 | yes | 2.8000 | ND | | | 10.0000 | *** |

* - 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 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Cobalt, Total | ug/L | MW-21A | 05/28/2019 | yes | 2.1000 | ND | | | 10.0000 | *** |
| Cobalt, Total | ug/L | MW-21A | 10/15/2019 | yes | 2.1000 | ND | | | 10.0000 | *** |
| Cobalt, Total | ug/L | MW-21A | 06/03/2020 | yes | 2.0000 | ND | | | 10.0000 | *** |
| Cobalt, Total | ug/L | MW-21A | 10/07/2020 | | 2.1000 | ND | | | | |
| Cobalt, Total | ug/L | MW-21A | 05/03/2021 | | 2.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-21A | 11/09/2021 | | 2.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-21A | 05/17/2022 | | 2.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-21A | 10/17/2022 | | 2.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-21A | 06/08/2023 | | 2.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-21A | 10/05/2023 | | 2.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-21A | 05/20/2024 | | 2.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-21A | 10/02/2024 | | 2.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-21A | 05/12/2025 | | 2.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-21A | 10/14/2025 | | 2.0000 | ND | | | | |
| Copper, Total | ug/L | MW-21A | 04/24/2008 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-21A | 05/21/2008 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-21A | 06/18/2008 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-21A | 08/13/2008 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-21A | 09/24/2008 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-21A | 04/27/2009 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-21A | 10/26/2009 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-21A | 12/17/2009 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-21A | 04/13/2010 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-21A | 10/18/2010 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-21A | 05/10/2011 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-21A | 10/19/2011 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-21A | 04/24/2012 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-21A | 10/25/2012 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-21A | 05/07/2013 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-21A | 11/11/2013 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-21A | 05/13/2014 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-21A | 11/12/2014 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-21A | 05/27/2015 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-21A | 11/18/2015 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-21A | 06/16/2016 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-21A | 11/16/2016 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-21A | 05/30/2017 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-21A | 11/21/2017 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-21A | 05/31/2018 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-21A | 10/31/2018 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-21A | 05/28/2019 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-21A | 10/15/2019 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-21A | 06/03/2020 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-21A | 10/07/2020 | | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-21A | 05/03/2021 | | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-21A | 11/09/2021 | | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-21A | 05/17/2022 | | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-21A | 10/17/2022 | | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-21A | 06/08/2023 | | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-21A | 10/05/2023 | | 10.0000 | 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 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Copper, Total | ug/L | MW-21A | 05/20/2024 | | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-21A | 10/02/2024 | | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-21A | 05/12/2025 | | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-21A | 10/14/2025 | | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-21A | 04/24/2008 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-21A | 05/21/2008 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-21A | 06/18/2008 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-21A | 08/13/2008 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-21A | 09/24/2008 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-21A | 04/27/2009 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-21A | 10/26/2009 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-21A | 12/17/2009 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-21A | 04/13/2010 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-21A | 10/18/2010 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-21A | 05/10/2011 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-21A | 10/19/2011 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-21A | 04/24/2012 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-21A | 10/25/2012 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-21A | 05/07/2013 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-21A | 11/11/2013 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-21A | 05/13/2014 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-21A | 11/12/2014 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-21A | 05/27/2015 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-21A | 11/18/2015 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-21A | 06/16/2016 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-21A | 11/16/2016 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-21A | 05/30/2017 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-21A | 11/21/2017 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-21A | 05/31/2018 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-21A | 10/31/2018 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-21A | 05/28/2019 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-21A | 10/15/2019 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-21A | 06/03/2020 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-21A | 10/07/2020 | | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-21A | 05/03/2021 | | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-21A | 11/09/2021 | | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-21A | 05/17/2022 | | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-21A | 10/17/2022 | | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-21A | 06/08/2023 | | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-21A | 10/05/2023 | | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-21A | 05/20/2024 | | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-21A | 10/02/2024 | | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-21A | 05/12/2025 | | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-21A | 10/14/2025 | | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-21A | 04/24/2008 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-21A | 05/21/2008 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-21A | 06/18/2008 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-21A | 08/13/2008 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-21A | 09/24/2008 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-21A | 04/27/2009 | yes | 10.0000 | 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 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Nickel, Total | ug/L | MW-21A | 10/26/2009 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-21A | 12/17/2009 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-21A | 04/13/2010 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-21A | 10/18/2010 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-21A | 05/10/2011 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-21A | 10/19/2011 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-21A | 04/24/2012 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-21A | 10/25/2012 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-21A | 05/07/2013 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-21A | 11/11/2013 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-21A | 05/13/2014 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-21A | 11/12/2014 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-21A | 05/27/2015 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-21A | 11/18/2015 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-21A | 06/16/2016 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-21A | 11/16/2016 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-21A | 05/30/2017 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-21A | 11/21/2017 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-21A | 05/31/2018 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-21A | 10/31/2018 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-21A | 05/28/2019 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-21A | 10/15/2019 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-21A | 06/03/2020 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-21A | 10/07/2020 | | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-21A | 05/03/2021 | | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-21A | 11/09/2021 | | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-21A | 05/17/2022 | | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-21A | 10/17/2022 | | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-21A | 06/08/2023 | | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-21A | 10/05/2023 | | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-21A | 05/20/2024 | | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-21A | 10/02/2024 | | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-21A | 05/12/2025 | | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-21A | 10/14/2025 | | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-21A | 04/24/2008 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-21A | 05/21/2008 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-21A | 06/18/2008 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-21A | 08/13/2008 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-21A | 09/24/2008 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-21A | 04/27/2009 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-21A | 10/26/2009 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-21A | 12/17/2009 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-21A | 04/13/2010 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-21A | 10/18/2010 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-21A | 05/10/2011 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-21A | 10/19/2011 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-21A | 04/24/2012 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-21A | 10/25/2012 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-21A | 05/07/2013 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-21A | 11/11/2013 | yes | 10.0000 | 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 | MW-21A | 05/13/2014 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-21A | 11/12/2014 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-21A | 05/27/2015 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-21A | 11/18/2015 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-21A | 06/16/2016 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-21A | 11/16/2016 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-21A | 05/30/2017 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-21A | 11/21/2017 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-21A | 05/31/2018 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-21A | 10/31/2018 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-21A | 05/28/2019 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-21A | 10/15/2019 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-21A | 06/03/2020 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-21A | 10/07/2020 | | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-21A | 05/03/2021 | | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-21A | 11/09/2021 | | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-21A | 05/17/2022 | | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-21A | 10/17/2022 | | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-21A | 06/08/2023 | | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-21A | 10/05/2023 | | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-21A | 05/20/2024 | | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-21A | 10/02/2024 | | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-21A | 05/12/2025 | | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-21A | 10/14/2025 | | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-21A | 04/24/2008 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-21A | 05/21/2008 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-21A | 06/18/2008 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-21A | 08/13/2008 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-21A | 09/24/2008 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-21A | 04/27/2009 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-21A | 10/26/2009 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-21A | 12/17/2009 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-21A | 04/13/2010 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-21A | 10/18/2010 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-21A | 05/10/2011 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-21A | 10/19/2011 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-21A | 04/24/2012 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-21A | 10/25/2012 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-21A | 05/07/2013 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-21A | 11/11/2013 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-21A | 05/13/2014 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-21A | 11/12/2014 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-21A | 05/27/2015 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-21A | 11/18/2015 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-21A | 06/16/2016 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-21A | 11/16/2016 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-21A | 05/30/2017 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-21A | 11/21/2017 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-21A | 05/31/2018 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-21A | 10/31/2018 | yes | 10.0000 | 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 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Silver, Total | ug/L | MW-21A | 05/28/2019 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-21A | 10/15/2019 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-21A | 06/03/2020 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-21A | 10/07/2020 | | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-21A | 05/03/2021 | | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-21A | 11/09/2021 | | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-21A | 05/17/2022 | | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-21A | 10/17/2022 | | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-21A | 06/08/2023 | | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-21A | 10/05/2023 | | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-21A | 05/20/2024 | | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-21A | 10/02/2024 | | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-21A | 05/12/2025 | | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-21A | 10/14/2025 | | 10.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-21A | 04/24/2008 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-21A | 05/21/2008 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-21A | 06/18/2008 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-21A | 08/13/2008 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-21A | 09/24/2008 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-21A | 04/27/2009 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-21A | 10/26/2009 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-21A | 12/17/2009 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-21A | 04/13/2010 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-21A | 10/18/2010 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-21A | 05/10/2011 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-21A | 10/19/2011 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-21A | 04/24/2012 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-21A | 10/25/2012 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-21A | 05/07/2013 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-21A | 11/11/2013 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-21A | 05/13/2014 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-21A | 11/12/2014 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-21A | 05/27/2015 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-21A | 11/18/2015 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-21A | 06/16/2016 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-21A | 11/16/2016 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-21A | 05/30/2017 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-21A | 11/21/2017 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-21A | 05/31/2018 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-21A | 10/31/2018 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-21A | 05/28/2019 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-21A | 10/15/2019 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-21A | 06/03/2020 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-21A | 10/07/2020 | | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-21A | 05/03/2021 | | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-21A | 11/09/2021 | | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-21A | 05/17/2022 | | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-21A | 10/17/2022 | | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-21A | 06/08/2023 | | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-21A | 10/05/2023 | | 2.0000 | ND | | | | |

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*** - ND value replaced with median RL.
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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 | MW-21A | 05/20/2024 | | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-21A | 10/02/2024 | | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-21A | 05/12/2025 | | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-21A | 10/14/2025 | | 2.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-21A | 04/24/2008 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-21A | 05/21/2008 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-21A | 06/18/2008 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-21A | 08/13/2008 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-21A | 09/24/2008 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-21A | 04/27/2009 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-21A | 10/26/2009 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-21A | 12/17/2009 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-21A | 04/13/2010 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-21A | 10/18/2010 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-21A | 05/10/2011 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-21A | 10/19/2011 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-21A | 04/24/2012 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-21A | 10/25/2012 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-21A | 05/07/2013 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-21A | 11/11/2013 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-21A | 05/13/2014 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-21A | 11/12/2014 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-21A | 05/27/2015 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-21A | 11/18/2015 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-21A | 06/16/2016 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-21A | 11/16/2016 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-21A | 05/30/2017 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-21A | 11/21/2017 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-21A | 05/31/2018 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-21A | 10/31/2018 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-21A | 05/28/2019 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-21A | 10/15/2019 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-21A | 06/03/2020 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-21A | 10/07/2020 | | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-21A | 05/03/2021 | | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-21A | 11/09/2021 | | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-21A | 05/17/2022 | | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-21A | 10/17/2022 | | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-21A | 06/08/2023 | | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-21A | 10/05/2023 | | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-21A | 05/20/2024 | | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-21A | 10/02/2024 | | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-21A | 05/12/2025 | | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-21A | 10/14/2025 | | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-21A | 04/24/2008 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-21A | 05/21/2008 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-21A | 06/18/2008 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-21A | 08/13/2008 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-21A | 09/24/2008 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-21A | 04/27/2009 | yes | 20.0000 | 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 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Zinc, Total | ug/L | MW-21A | 10/26/2009 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-21A | 12/17/2009 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-21A | 04/13/2010 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-21A | 10/18/2010 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-21A | 05/10/2011 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-21A | 10/19/2011 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-21A | 04/24/2012 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-21A | 10/25/2012 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-21A | 05/07/2013 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-21A | 11/11/2013 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-21A | 05/13/2014 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-21A | 11/12/2014 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-21A | 05/27/2015 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-21A | 11/18/2015 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-21A | 06/16/2016 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-21A | 11/16/2016 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-21A | 05/30/2017 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-21A | 11/21/2017 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-21A | 05/31/2018 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-21A | 10/31/2018 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-21A | 05/28/2019 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-21A | 10/15/2019 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-21A | 06/03/2020 | yes | 50.0000 | ND | | | 20.0000 | *** |
| Zinc, Total | ug/L | MW-21A | 10/07/2020 | | 50.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-21A | 05/03/2021 | | 50.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-21A | 11/09/2021 | | 50.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-21A | 05/17/2022 | | 50.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-21A | 10/17/2022 | | 50.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-21A | 06/08/2023 | | 50.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-21A | 10/05/2023 | | 50.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-21A | 05/20/2024 | | 50.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-21A | 10/02/2024 | | 50.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-21A | 05/12/2025 | | 50.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-21A | 10/14/2025 | | 50.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-23A | 04/27/2009 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-23A | 10/26/2009 | yes | 6.8000 | ND | | | 6.0000 | *** |
| Antimony, Total | ug/L | MW-23A | 12/17/2009 | yes | 6.8000 | ND | | | 6.0000 | *** |
| Antimony, Total | ug/L | MW-23A | 04/13/2010 | yes | 6.8000 | ND | | | 6.0000 | *** |
| Antimony, Total | ug/L | MW-23A | 05/18/2010 | yes | 6.8000 | ND | | | 6.0000 | *** |
| Antimony, Total | ug/L | MW-23A | 06/21/2010 | yes | 6.8000 | ND | | | 6.0000 | *** |
| Antimony, Total | ug/L | MW-23A | 07/09/2010 | yes | 6.8000 | ND | | | 6.0000 | *** |
| Antimony, Total | ug/L | MW-23A | 08/18/2010 | yes | 6.8000 | ND | | | 6.0000 | *** |
| Antimony, Total | ug/L | MW-23A | 10/18/2010 | yes | 6.8000 | ND | | | 6.0000 | *** |
| Antimony, Total | ug/L | MW-23A | 05/09/2011 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-23A | 10/19/2011 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-23A | 04/24/2012 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-23A | 10/25/2012 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-23A | 05/07/2013 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-23A | 11/11/2013 | yes | 12.0000 | ND | | | 6.0000 | *** |
| Antimony, Total | ug/L | MW-23A | 05/13/2014 | yes | 6.0000 | 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 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Antimony, Total | ug/L | MW-23A | 11/12/2014 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-23A | 05/27/2015 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-23A | 11/18/2015 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-23A | 06/16/2016 | | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-23A | 11/16/2016 | | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-23A | 05/30/2017 | | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-23A | 11/21/2017 | | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-23A | 05/31/2018 | | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-23A | 10/31/2018 | | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-23A | 05/28/2019 | | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-23A | 10/15/2019 | | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-23A | 06/03/2020 | | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-23A | 10/07/2020 | | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-23A | 05/03/2021 | | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-23A | 11/09/2021 | | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-23A | 05/17/2022 | | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-23A | 10/17/2022 | | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-23A | 06/08/2023 | | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-23A | 10/05/2023 | | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-23A | 05/20/2024 | | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-23A | 10/02/2024 | | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-23A | 05/12/2025 | | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-23A | 10/14/2025 | | 6.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-23A | 04/27/2009 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-23A | 10/26/2009 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-23A | 12/17/2009 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-23A | 04/13/2010 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-23A | 05/18/2010 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-23A | 06/21/2010 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-23A | 07/09/2010 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-23A | 08/18/2010 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-23A | 10/18/2010 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-23A | 05/09/2011 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-23A | 10/19/2011 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-23A | 04/24/2012 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-23A | 10/25/2012 | yes | 110.0000 | | yes | | | * |
| Arsenic, Total | ug/L | MW-23A | 05/07/2013 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-23A | 11/11/2013 | yes | 37.0000 | | yes | | | * |
| Arsenic, Total | ug/L | MW-23A | 05/13/2014 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-23A | 11/12/2014 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-23A | 05/27/2015 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-23A | 11/18/2015 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-23A | 06/16/2016 | | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-23A | 11/16/2016 | | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-23A | 05/30/2017 | | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-23A | 11/21/2017 | | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-23A | 05/31/2018 | | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-23A | 10/31/2018 | | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-23A | 05/28/2019 | | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-23A | 10/15/2019 | | 10.0000 | 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 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic, Total | ug/L | MW-23A | 06/03/2020 | | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-23A | 10/07/2020 | | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-23A | 05/03/2021 | | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-23A | 11/09/2021 | | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-23A | 05/17/2022 | | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-23A | 10/17/2022 | | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-23A | 06/08/2023 | | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-23A | 10/05/2023 | | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-23A | 05/20/2024 | | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-23A | 10/02/2024 | | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-23A | 05/12/2025 | | 10.8000 | | | | | ** |
| Arsenic, Total | ug/L | MW-23A | 07/09/2025 | | 14.8000 | | | | | ** |
| Arsenic, Total | ug/L | MW-23A | 10/14/2025 | | 12.2000 | | | | | ** |
| Barium, Total | ug/L | MW-23A | 04/27/2009 | yes | 125.0000 | | | | | |
| Barium, Total | ug/L | MW-23A | 10/26/2009 | yes | 147.0000 | | | | | |
| Barium, Total | ug/L | MW-23A | 12/17/2009 | yes | 143.0000 | | | | | |
| Barium, Total | ug/L | MW-23A | 04/13/2010 | yes | 123.0000 | | | | | |
| Barium, Total | ug/L | MW-23A | 05/18/2010 | yes | 128.0000 | | | | | |
| Barium, Total | ug/L | MW-23A | 06/21/2010 | yes | 146.0000 | | | | | |
| Barium, Total | ug/L | MW-23A | 07/09/2010 | yes | 150.0000 | | | | | |
| Barium, Total | ug/L | MW-23A | 08/18/2010 | yes | 160.0000 | | | | | |
| Barium, Total | ug/L | MW-23A | 10/18/2010 | yes | 166.0000 | | | | | |
| Barium, Total | ug/L | MW-23A | 05/09/2011 | yes | 120.0000 | | | | | |
| Barium, Total | ug/L | MW-23A | 10/19/2011 | yes | 190.0000 | | | | | |
| Barium, Total | ug/L | MW-23A | 04/24/2012 | yes | 170.0000 | | | | | |
| Barium, Total | ug/L | MW-23A | 10/25/2012 | yes | 1300.0000 | | yes | | | * |
| Barium, Total | ug/L | MW-23A | 05/07/2013 | yes | 170.0000 | | | | | |
| Barium, Total | ug/L | MW-23A | 11/11/2013 | yes | 980.0000 | | yes | | | * |
| Barium, Total | ug/L | MW-23A | 05/13/2014 | yes | 150.0000 | | | | | |
| Barium, Total | ug/L | MW-23A | 11/12/2014 | yes | 180.0000 | | | | | |
| Barium, Total | ug/L | MW-23A | 05/27/2015 | yes | 230.0000 | | | | | |
| Barium, Total | ug/L | MW-23A | 11/18/2015 | yes | 270.0000 | | | | | |
| Barium, Total | ug/L | MW-23A | 06/16/2016 | | 290.0000 | | | 260.6681 | | |
| Barium, Total | ug/L | MW-23A | 11/16/2016 | | 290.0000 | | | 358.5127 | | |
| Barium, Total | ug/L | MW-23A | 05/30/2017 | | 320.0000 | | | 486.3572 | | ** |
| Barium, Total | ug/L | MW-23A | 11/21/2017 | | 350.0000 | | | 516.3572 | | ** |
| Barium, Total | ug/L | MW-23A | 05/31/2018 | | 660.0000 | | | 826.3572 | | ** |
| Barium, Total | ug/L | MW-23A | 10/31/2018 | | 460.0000 | | | 626.3572 | | ** |
| Barium, Total | ug/L | MW-23A | 05/28/2019 | | 1300.0000 | | | 1466.3572 | | ** |
| Barium, Total | ug/L | MW-23A | 10/15/2019 | | 620.0000 | | | 786.3572 | | ** |
| Barium, Total | ug/L | MW-23A | 06/03/2020 | | 1020.0000 | | | 1186.3572 | | ** |
| Barium, Total | ug/L | MW-23A | 10/07/2020 | | 478.0000 | | | 644.3572 | | ** |
| Barium, Total | ug/L | MW-23A | 05/03/2021 | | 1170.0000 | | | 1336.3572 | | ** |
| Barium, Total | ug/L | MW-23A | 11/09/2021 | | 1300.0000 | | | 1466.3572 | | ** |
| Barium, Total | ug/L | MW-23A | 05/17/2022 | | 1490.0000 | | | 1656.3572 | | ** |
| Barium, Total | ug/L | MW-23A | 10/17/2022 | | 1080.0000 | | | 1246.3572 | | ** |
| Barium, Total | ug/L | MW-23A | 06/08/2023 | | 2540.0000 | | | 2706.3572 | | ** |
| Barium, Total | ug/L | MW-23A | 10/05/2023 | | 1230.0000 | | | 1396.3572 | | ** |
| Barium, Total | ug/L | MW-23A | 05/20/2024 | | 2450.0000 | | | 2616.3572 | | ** |
| Barium, Total | ug/L | MW-23A | 07/18/2024 | | 1950.0000 | | | 2116.3572 | | ** |

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ND = Not detected, Result = detection limit.

## Table 2

## Analytical Data and CUSUM Summary

| Constituent | Units | Well | Date | Background | Result | | Outlier | CUSUM | Adjusted | |
|---|---|---|---|---|---|---|---|---|---|---|
| Barium, Total | ug/L | MW-23A | 10/02/2024 | | 1640.0000 | | | 1806.3572 | | ** |
| Barium, Total | ug/L | MW-23A | 05/12/2025 | | 1600.0000 | | | 1766.3572 | | ** |
| Barium, Total | ug/L | MW-23A | 10/14/2025 | | 1070.0000 | | | 1236.3572 | | ** |
| Beryllium, Total | ug/L | MW-23A | 04/27/2009 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-23A | 10/26/2009 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-23A | 12/17/2009 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-23A | 04/13/2010 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-23A | 05/18/2010 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-23A | 06/21/2010 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-23A | 07/09/2010 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-23A | 08/18/2010 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-23A | 10/18/2010 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-23A | 05/09/2011 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-23A | 10/19/2011 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-23A | 04/24/2012 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-23A | 10/25/2012 | yes | 5.4000 | | yes | | | * |
| Beryllium, Total | ug/L | MW-23A | 05/07/2013 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-23A | 11/11/2013 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-23A | 05/13/2014 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-23A | 11/12/2014 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-23A | 05/27/2015 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-23A | 11/18/2015 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-23A | 06/16/2016 | | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-23A | 11/16/2016 | | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-23A | 05/30/2017 | | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-23A | 11/21/2017 | | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-23A | 05/31/2018 | | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-23A | 10/31/2018 | | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-23A | 05/28/2019 | | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-23A | 10/15/2019 | | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-23A | 06/03/2020 | | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-23A | 10/07/2020 | | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-23A | 05/03/2021 | | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-23A | 11/09/2021 | | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-23A | 05/17/2022 | | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-23A | 10/17/2022 | | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-23A | 06/08/2023 | | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-23A | 10/05/2023 | | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-23A | 05/20/2024 | | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-23A | 10/02/2024 | | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-23A | 05/12/2025 | | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-23A | 10/14/2025 | | 4.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-23A | 04/27/2009 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-23A | 10/26/2009 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-23A | 12/17/2009 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-23A | 04/13/2010 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-23A | 05/18/2010 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-23A | 06/21/2010 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-23A | 07/09/2010 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-23A | 08/18/2010 | yes | 5.0000 | ND | | | | |

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ND = Not detected, Result = detection limit.

## Table 2

## Analytical Data and CUSUM Summary

| Constituent | Units | Well | Date | Background | Result | | Outlier | CUSUM | Adjusted | |
|---|---|---|---|---|---|---|---|---|---|---|
| Cadmium, Total | ug/L | MW-23A | 10/18/2010 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-23A | 05/09/2011 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-23A | 10/19/2011 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-23A | 04/24/2012 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-23A | 10/25/2012 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-23A | 05/07/2013 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-23A | 11/11/2013 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-23A | 05/13/2014 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-23A | 11/12/2014 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-23A | 05/27/2015 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-23A | 11/18/2015 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-23A | 06/16/2016 | | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-23A | 11/16/2016 | | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-23A | 05/30/2017 | | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-23A | 11/21/2017 | | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-23A | 05/31/2018 | | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-23A | 10/31/2018 | | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-23A | 05/28/2019 | | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-23A | 10/15/2019 | | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-23A | 06/03/2020 | | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-23A | 10/07/2020 | | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-23A | 05/03/2021 | | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-23A | 11/09/2021 | | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-23A | 05/17/2022 | | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-23A | 10/17/2022 | | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-23A | 06/08/2023 | | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-23A | 10/05/2023 | | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-23A | 05/20/2024 | | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-23A | 10/02/2024 | | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-23A | 05/12/2025 | | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-23A | 10/14/2025 | | 5.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-23A | 04/27/2009 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-23A | 10/26/2009 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-23A | 12/17/2009 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-23A | 04/13/2010 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-23A | 05/18/2010 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-23A | 06/21/2010 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-23A | 07/09/2010 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-23A | 08/18/2010 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-23A | 10/18/2010 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-23A | 05/09/2011 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-23A | 10/19/2011 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-23A | 04/24/2012 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-23A | 10/25/2012 | yes | 220.0000 | | yes | | | * |
| Chromium, Total | ug/L | MW-23A | 05/07/2013 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-23A | 11/11/2013 | yes | 83.0000 | | yes | | | * |
| Chromium, Total | ug/L | MW-23A | 05/13/2014 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-23A | 11/12/2014 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-23A | 05/27/2015 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-23A | 11/18/2015 | yes | 10.0000 | 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 | MW-23A | 06/16/2016 | | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-23A | 11/16/2016 | | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-23A | 05/30/2017 | | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-23A | 11/21/2017 | | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-23A | 05/31/2018 | | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-23A | 10/31/2018 | | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-23A | 05/28/2019 | | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-23A | 10/15/2019 | | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-23A | 06/03/2020 | | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-23A | 10/07/2020 | | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-23A | 05/03/2021 | | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-23A | 11/09/2021 | | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-23A | 05/17/2022 | | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-23A | 10/17/2022 | | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-23A | 06/08/2023 | | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-23A | 10/05/2023 | | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-23A | 05/20/2024 | | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-23A | 10/02/2024 | | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-23A | 05/12/2025 | | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-23A | 10/14/2025 | | 10.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-23A | 04/27/2009 | yes | 10.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-23A | 10/26/2009 | yes | 10.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-23A | 12/17/2009 | yes | 10.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-23A | 04/13/2010 | yes | 10.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-23A | 05/18/2010 | yes | 10.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-23A | 06/21/2010 | yes | 10.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-23A | 07/09/2010 | yes | 10.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-23A | 08/18/2010 | yes | 10.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-23A | 10/18/2010 | yes | 10.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-23A | 05/09/2011 | yes | 10.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-23A | 10/19/2011 | yes | 10.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-23A | 04/24/2012 | yes | 10.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-23A | 10/25/2012 | yes | 71.0000 | | yes | | | * |
| Cobalt, Total | ug/L | MW-23A | 05/07/2013 | yes | 10.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-23A | 11/11/2013 | yes | 34.0000 | | yes | | | * |
| Cobalt, Total | ug/L | MW-23A | 05/13/2014 | yes | 10.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-23A | 11/12/2014 | yes | 10.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-23A | 05/27/2015 | yes | 2.8000 | ND | yes | | | * |
| Cobalt, Total | ug/L | MW-23A | 11/18/2015 | yes | 2.8000 | ND | yes | | | * |
| Cobalt, Total | ug/L | MW-23A | 06/16/2016 | | 2.8000 | ND | | | | |
| Cobalt, Total | ug/L | MW-23A | 11/16/2016 | | 2.8000 | ND | | | | |
| Cobalt, Total | ug/L | MW-23A | 05/30/2017 | | 2.8000 | ND | | | | |
| Cobalt, Total | ug/L | MW-23A | 11/21/2017 | | 2.8000 | ND | | | | |
| Cobalt, Total | ug/L | MW-23A | 05/31/2018 | | 13.0000 | | | | | ** |
| Cobalt, Total | ug/L | MW-23A | 10/31/2018 | | 3.3000 | | | | | |
| Cobalt, Total | ug/L | MW-23A | 05/28/2019 | | 14.0000 | | | | | ** |
| Cobalt, Total | ug/L | MW-23A | 10/15/2019 | | 6.2000 | | | | | |
| Cobalt, Total | ug/L | MW-23A | 06/03/2020 | | 9.7400 | | | | | |
| Cobalt, Total | ug/L | MW-23A | 10/07/2020 | | 3.1200 | | | | | |
| Cobalt, Total | ug/L | MW-23A | 05/03/2021 | | 14.7000 | | | | | ** |

* - 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 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Cobalt, Total | ug/L | MW-23A | 11/09/2021 | | 10.2000 | | | | | ** |
| Cobalt, Total | ug/L | MW-23A | 05/17/2022 | | 14.4000 | | | | | ** |
| Cobalt, Total | ug/L | MW-23A | 10/17/2022 | | 3.8000 | | | | | |
| Cobalt, Total | ug/L | MW-23A | 06/08/2023 | | 14.9000 | | | | | ** |
| Cobalt, Total | ug/L | MW-23A | 10/05/2023 | | 5.1900 | | | | | |
| Cobalt, Total | ug/L | MW-23A | 05/20/2024 | | 13.5000 | | | | | ** |
| Cobalt, Total | ug/L | MW-23A | 10/02/2024 | | 2.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-23A | 05/12/2025 | | 11.3000 | | | | | ** |
| Cobalt, Total | ug/L | MW-23A | 10/14/2025 | | 3.1800 | | | | | |
| Copper, Total | ug/L | MW-23A | 04/27/2009 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-23A | 10/26/2009 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-23A | 12/17/2009 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-23A | 04/13/2010 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-23A | 05/18/2010 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-23A | 06/21/2010 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-23A | 07/09/2010 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-23A | 08/18/2010 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-23A | 10/18/2010 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-23A | 05/09/2011 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-23A | 10/19/2011 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-23A | 04/24/2012 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-23A | 10/25/2012 | yes | 170.0000 | | yes | | | * |
| Copper, Total | ug/L | MW-23A | 05/07/2013 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-23A | 11/11/2013 | yes | 110.0000 | | yes | | | * |
| Copper, Total | ug/L | MW-23A | 05/13/2014 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-23A | 11/12/2014 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-23A | 05/27/2015 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-23A | 11/18/2015 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-23A | 06/16/2016 | | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-23A | 11/16/2016 | | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-23A | 05/30/2017 | | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-23A | 11/21/2017 | | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-23A | 05/31/2018 | | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-23A | 10/31/2018 | | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-23A | 05/28/2019 | | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-23A | 10/15/2019 | | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-23A | 06/03/2020 | | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-23A | 10/07/2020 | | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-23A | 05/03/2021 | | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-23A | 11/09/2021 | | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-23A | 05/17/2022 | | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-23A | 10/17/2022 | | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-23A | 06/08/2023 | | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-23A | 10/05/2023 | | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-23A | 05/20/2024 | | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-23A | 10/02/2024 | | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-23A | 05/12/2025 | | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-23A | 10/14/2025 | | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-23A | 04/27/2009 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-23A | 10/26/2009 | yes | 10.0000 | 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 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Lead, Total | ug/L | MW-23A | 12/17/2009 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-23A | 04/13/2010 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-23A | 05/18/2010 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-23A | 06/21/2010 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-23A | 07/09/2010 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-23A | 08/18/2010 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-23A | 10/18/2010 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-23A | 05/09/2011 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-23A | 10/19/2011 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-23A | 04/24/2012 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-23A | 10/25/2012 | yes | 100.0000 | | yes | | | * |
| Lead, Total | ug/L | MW-23A | 05/07/2013 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-23A | 11/11/2013 | yes | 10.0000 | | | | | |
| Lead, Total | ug/L | MW-23A | 05/13/2014 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-23A | 11/12/2014 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-23A | 05/27/2015 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-23A | 11/18/2015 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-23A | 06/16/2016 | | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-23A | 11/16/2016 | | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-23A | 05/30/2017 | | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-23A | 11/21/2017 | | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-23A | 05/31/2018 | | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-23A | 10/31/2018 | | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-23A | 05/28/2019 | | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-23A | 10/15/2019 | | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-23A | 06/03/2020 | | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-23A | 10/07/2020 | | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-23A | 05/03/2021 | | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-23A | 11/09/2021 | | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-23A | 05/17/2022 | | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-23A | 10/17/2022 | | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-23A | 06/08/2023 | | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-23A | 10/05/2023 | | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-23A | 05/20/2024 | | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-23A | 10/02/2024 | | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-23A | 05/12/2025 | | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-23A | 10/14/2025 | | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-23A | 04/27/2009 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-23A | 10/26/2009 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-23A | 12/17/2009 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-23A | 04/13/2010 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-23A | 05/18/2010 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-23A | 06/21/2010 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-23A | 07/09/2010 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-23A | 08/18/2010 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-23A | 10/18/2010 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-23A | 05/09/2011 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-23A | 10/19/2011 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-23A | 04/24/2012 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-23A | 10/25/2012 | yes | 200.0000 | | yes | | | * |

* - 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 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Nickel, Total | ug/L | MW-23A | 05/07/2013 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-23A | 11/11/2013 | yes | 100.0000 | | yes | | | * |
| Nickel, Total | ug/L | MW-23A | 05/13/2014 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-23A | 11/12/2014 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-23A | 05/27/2015 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-23A | 11/18/2015 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-23A | 06/16/2016 | | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-23A | 11/16/2016 | | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-23A | 05/30/2017 | | 13.0000 | | | | | ** |
| Nickel, Total | ug/L | MW-23A | 11/21/2017 | | 11.0000 | | | | | ** |
| Nickel, Total | ug/L | MW-23A | 05/31/2018 | | 40.0000 | | | | | ** |
| Nickel, Total | ug/L | MW-23A | 10/31/2018 | | 16.0000 | | | | | ** |
| Nickel, Total | ug/L | MW-23A | 05/28/2019 | | 42.0000 | | | | | ** |
| Nickel, Total | ug/L | MW-23A | 10/15/2019 | | 21.0000 | | | | | ** |
| Nickel, Total | ug/L | MW-23A | 06/03/2020 | | 28.0000 | | | | | ** |
| Nickel, Total | ug/L | MW-23A | 10/07/2020 | | 12.4000 | | | | | ** |
| Nickel, Total | ug/L | MW-23A | 05/03/2021 | | 26.1000 | | | | | ** |
| Nickel, Total | ug/L | MW-23A | 11/09/2021 | | 15.8000 | | | | | ** |
| Nickel, Total | ug/L | MW-23A | 05/17/2022 | | 23.3000 | | | | | ** |
| Nickel, Total | ug/L | MW-23A | 10/17/2022 | | 10.0000 | | | | | ** |
| Nickel, Total | ug/L | MW-23A | 06/08/2023 | | 23.6000 | | | | | ** |
| Nickel, Total | ug/L | MW-23A | 10/05/2023 | | 12.1000 | | | | | ** |
| Nickel, Total | ug/L | MW-23A | 05/20/2024 | | 18.5000 | | | | | ** |
| Nickel, Total | ug/L | MW-23A | 10/02/2024 | | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-23A | 05/12/2025 | | 13.6000 | | | | | ** |
| Nickel, Total | ug/L | MW-23A | 10/14/2025 | | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-23A | 04/27/2009 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-23A | 10/26/2009 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-23A | 12/17/2009 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-23A | 04/13/2010 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-23A | 05/18/2010 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-23A | 06/21/2010 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-23A | 07/09/2010 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-23A | 08/18/2010 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-23A | 10/18/2010 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-23A | 05/09/2011 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-23A | 10/19/2011 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-23A | 04/24/2012 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-23A | 10/25/2012 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-23A | 05/07/2013 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-23A | 11/11/2013 | yes | 20.0000 | ND | | | 10.0000 | *** |
| Selenium, Total | ug/L | MW-23A | 05/13/2014 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-23A | 11/12/2014 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-23A | 05/27/2015 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-23A | 11/18/2015 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-23A | 06/16/2016 | | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-23A | 11/16/2016 | | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-23A | 05/30/2017 | | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-23A | 11/21/2017 | | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-23A | 05/31/2018 | | 10.0000 | 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 | MW-23A | 10/31/2018 | | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-23A | 05/28/2019 | | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-23A | 10/15/2019 | | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-23A | 06/03/2020 | | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-23A | 10/07/2020 | | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-23A | 05/03/2021 | | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-23A | 11/09/2021 | | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-23A | 05/17/2022 | | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-23A | 10/17/2022 | | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-23A | 06/08/2023 | | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-23A | 10/05/2023 | | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-23A | 05/20/2024 | | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-23A | 10/02/2024 | | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-23A | 05/12/2025 | | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-23A | 10/14/2025 | | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-23A | 04/27/2009 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-23A | 10/26/2009 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-23A | 12/17/2009 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-23A | 04/13/2010 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-23A | 05/18/2010 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-23A | 06/21/2010 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-23A | 07/09/2010 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-23A | 08/18/2010 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-23A | 10/18/2010 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-23A | 05/09/2011 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-23A | 10/19/2011 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-23A | 04/24/2012 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-23A | 10/25/2012 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-23A | 05/07/2013 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-23A | 11/11/2013 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-23A | 05/13/2014 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-23A | 11/12/2014 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-23A | 05/27/2015 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-23A | 11/18/2015 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-23A | 06/16/2016 | | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-23A | 11/16/2016 | | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-23A | 05/30/2017 | | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-23A | 11/21/2017 | | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-23A | 05/31/2018 | | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-23A | 10/31/2018 | | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-23A | 05/28/2019 | | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-23A | 10/15/2019 | | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-23A | 06/03/2020 | | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-23A | 10/07/2020 | | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-23A | 05/03/2021 | | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-23A | 11/09/2021 | | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-23A | 05/17/2022 | | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-23A | 10/17/2022 | | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-23A | 06/08/2023 | | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-23A | 10/05/2023 | | 10.0000 | ND | | | | |

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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 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Silver, Total | ug/L | MW-23A | 05/20/2024 | | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-23A | 10/02/2024 | | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-23A | 05/12/2025 | | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-23A | 10/14/2025 | | 10.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-23A | 04/27/2009 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-23A | 10/26/2009 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-23A | 12/17/2009 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-23A | 04/13/2010 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-23A | 05/18/2010 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-23A | 06/21/2010 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-23A | 07/09/2010 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-23A | 08/18/2010 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-23A | 10/18/2010 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-23A | 05/09/2011 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-23A | 10/19/2011 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-23A | 04/24/2012 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-23A | 10/25/2012 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-23A | 05/07/2013 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-23A | 11/11/2013 | yes | 4.0000 | ND | | | 2.0000 | *** |
| Thallium, Total | ug/L | MW-23A | 05/13/2014 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-23A | 11/12/2014 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-23A | 05/27/2015 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-23A | 11/18/2015 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-23A | 06/16/2016 | | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-23A | 11/16/2016 | | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-23A | 05/30/2017 | | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-23A | 11/21/2017 | | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-23A | 05/31/2018 | | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-23A | 10/31/2018 | | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-23A | 05/28/2019 | | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-23A | 10/15/2019 | | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-23A | 06/03/2020 | | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-23A | 10/07/2020 | | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-23A | 05/03/2021 | | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-23A | 11/09/2021 | | 2.4400 | | | | | ** |
| Thallium, Total | ug/L | MW-23A | 01/13/2022 | | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-23A | 05/17/2022 | | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-23A | 10/17/2022 | | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-23A | 06/08/2023 | | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-23A | 10/05/2023 | | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-23A | 05/20/2024 | | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-23A | 10/02/2024 | | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-23A | 05/12/2025 | | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-23A | 10/14/2025 | | 2.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-23A | 04/27/2009 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-23A | 10/26/2009 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-23A | 12/17/2009 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-23A | 04/13/2010 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-23A | 05/18/2010 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-23A | 06/21/2010 | yes | 20.0000 | 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 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Vanadium, Total | ug/L | MW-23A | 07/09/2010 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-23A | 08/18/2010 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-23A | 10/18/2010 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-23A | 05/09/2011 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-23A | 10/19/2011 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-23A | 04/24/2012 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-23A | 10/25/2012 | yes | 430.0000 | | yes | | | * |
| Vanadium, Total | ug/L | MW-23A | 05/07/2013 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-23A | 11/11/2013 | yes | 170.0000 | | yes | | | * |
| Vanadium, Total | ug/L | MW-23A | 05/13/2014 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-23A | 11/12/2014 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-23A | 05/27/2015 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-23A | 11/18/2015 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-23A | 06/16/2016 | | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-23A | 11/16/2016 | | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-23A | 05/30/2017 | | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-23A | 11/21/2017 | | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-23A | 05/31/2018 | | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-23A | 10/31/2018 | | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-23A | 05/28/2019 | | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-23A | 10/15/2019 | | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-23A | 06/03/2020 | | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-23A | 10/07/2020 | | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-23A | 05/03/2021 | | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-23A | 11/09/2021 | | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-23A | 05/17/2022 | | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-23A | 10/17/2022 | | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-23A | 06/08/2023 | | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-23A | 10/05/2023 | | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-23A | 05/20/2024 | | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-23A | 10/02/2024 | | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-23A | 05/12/2025 | | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-23A | 10/14/2025 | | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-23A | 04/27/2009 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-23A | 10/26/2009 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-23A | 12/17/2009 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-23A | 04/13/2010 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-23A | 05/18/2010 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-23A | 06/21/2010 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-23A | 07/09/2010 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-23A | 08/18/2010 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-23A | 10/18/2010 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-23A | 05/09/2011 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-23A | 10/19/2011 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-23A | 04/24/2012 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-23A | 10/25/2012 | yes | 420.0000 | | yes | | | * |
| Zinc, Total | ug/L | MW-23A | 05/07/2013 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-23A | 11/11/2013 | yes | 170.0000 | | yes | | | * |
| Zinc, Total | ug/L | MW-23A | 05/13/2014 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-23A | 11/12/2014 | yes | 20.0000 | ND | | | | |

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## Table 2

## Analytical Data and CUSUM Summary

| Constituent | Units | Well | Date | Background | Result | | Outlier | CUSUM | Adjusted | |
|---|---|---|---|---|---|---|---|---|---|---|
| Zinc, Total | ug/L | MW-23A | 05/27/2015 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-23A | 11/18/2015 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-23A | 06/16/2016 | | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-23A | 11/16/2016 | | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-23A | 05/30/2017 | | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-23A | 11/21/2017 | | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-23A | 05/31/2018 | | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-23A | 10/31/2018 | | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-23A | 05/28/2019 | | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-23A | 10/15/2019 | | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-23A | 06/03/2020 | | 50.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-23A | 10/07/2020 | | 50.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-23A | 05/03/2021 | | 50.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-23A | 11/09/2021 | | 50.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-23A | 05/17/2022 | | 50.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-23A | 10/17/2022 | | 50.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-23A | 06/08/2023 | | 50.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-23A | 10/05/2023 | | 50.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-23A | 05/20/2024 | | 50.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-23A | 10/02/2024 | | 50.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-23A | 05/12/2025 | | 50.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-23A | 10/14/2025 | | 50.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-34A | 04/27/2009 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-34A | 10/26/2009 | yes | 6.8000 | ND | | | 6.0000 | *** |
| Antimony, Total | ug/L | MW-34A | 12/17/2009 | yes | 6.8000 | ND | | | 6.0000 | *** |
| Antimony, Total | ug/L | MW-34A | 04/13/2010 | yes | 6.8000 | ND | | | 6.0000 | *** |
| Antimony, Total | ug/L | MW-34A | 05/18/2010 | yes | 6.8000 | ND | | | 6.0000 | *** |
| Antimony, Total | ug/L | MW-34A | 06/21/2010 | yes | 6.8000 | ND | | | 6.0000 | *** |
| Antimony, Total | ug/L | MW-34A | 08/18/2010 | yes | 6.8000 | ND | | | 6.0000 | *** |
| Antimony, Total | ug/L | MW-34A | 10/18/2010 | yes | 6.8000 | ND | | | 6.0000 | *** |
| Antimony, Total | ug/L | MW-34A | 05/10/2011 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-34A | 10/19/2011 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-34A | 04/24/2012 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-34A | 10/25/2012 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-34A | 05/07/2013 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-34A | 11/11/2013 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-34A | 05/13/2014 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-34A | 11/12/2014 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-34A | 05/27/2015 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-34A | 11/18/2015 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-34A | 06/16/2016 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-34A | 11/16/2016 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-34A | 05/30/2017 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-34A | 11/21/2017 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-34A | 05/31/2018 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-34A | 10/31/2018 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-34A | 05/28/2019 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-34A | 10/15/2019 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-34A | 06/03/2020 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-34A | 05/03/2021 | | 6.0000 | ND | | | | |

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## Table 2

## Analytical Data and CUSUM Summary

| Constituent | Units | Well | Date | Background | Result | | Outlier | CUSUM | Adjusted | |
|---|---|---|---|---|---|---|---|---|---|---|
| Antimony, Total | ug/L | MW-34A | 01/13/2022 | | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-34A | 05/17/2022 | | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-34A | 10/17/2022 | | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-34A | 05/22/2023 | | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-34A | 05/12/2025 | | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-34A | 11/24/2025 | | 6.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-34A | 04/27/2009 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-34A | 10/26/2009 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-34A | 12/17/2009 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-34A | 04/13/2010 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-34A | 05/18/2010 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-34A | 06/21/2010 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-34A | 08/18/2010 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-34A | 10/18/2010 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-34A | 05/10/2011 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-34A | 10/19/2011 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-34A | 04/24/2012 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-34A | 10/25/2012 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-34A | 05/07/2013 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-34A | 11/11/2013 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-34A | 05/13/2014 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-34A | 11/12/2014 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-34A | 05/27/2015 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-34A | 11/18/2015 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-34A | 06/16/2016 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-34A | 11/16/2016 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-34A | 05/30/2017 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-34A | 11/21/2017 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-34A | 05/31/2018 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-34A | 10/31/2018 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-34A | 05/28/2019 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-34A | 10/15/2019 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-34A | 06/03/2020 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-34A | 05/03/2021 | | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-34A | 01/13/2022 | | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-34A | 05/17/2022 | | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-34A | 10/17/2022 | | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-34A | 05/22/2023 | | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-34A | 05/12/2025 | | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-34A | 11/24/2025 | | 10.0000 | ND | | | | |
| Barium, Total | ug/L | MW-34A | 04/27/2009 | yes | 39.4000 | | | | | |
| Barium, Total | ug/L | MW-34A | 10/26/2009 | yes | 40.6000 | | | | | |
| Barium, Total | ug/L | MW-34A | 12/17/2009 | yes | 39.2000 | | | | | |
| Barium, Total | ug/L | MW-34A | 04/13/2010 | yes | 33.0000 | | | | | |
| Barium, Total | ug/L | MW-34A | 05/18/2010 | yes | 34.6000 | | | | | |
| Barium, Total | ug/L | MW-34A | 06/21/2010 | yes | 37.5000 | | | | | |
| Barium, Total | ug/L | MW-34A | 08/18/2010 | yes | 35.4000 | | | | | |
| Barium, Total | ug/L | MW-34A | 10/18/2010 | yes | 39.9000 | | | | | |
| Barium, Total | ug/L | MW-34A | 05/10/2011 | yes | 35.0000 | | | | | |
| Barium, Total | ug/L | MW-34A | 10/19/2011 | yes | 50.0000 | | | | | |

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ND = Not detected, Result = detection limit.

## Table 2

## Analytical Data and CUSUM Summary

| Constituent | Units | Well | Date | Background | Result | | Outlier | CUSUM | Adjusted | |
|---|---|---|---|---|---|---|---|---|---|---|
| Barium, Total | ug/L | MW-34A | 04/24/2012 | yes | 38.0000 | | | | | |
| Barium, Total | ug/L | MW-34A | 10/25/2012 | yes | 36.0000 | | | | | |
| Barium, Total | ug/L | MW-34A | 05/07/2013 | yes | 33.0000 | | | | | |
| Barium, Total | ug/L | MW-34A | 11/11/2013 | yes | 38.0000 | | | | | |
| Barium, Total | ug/L | MW-34A | 05/13/2014 | yes | 30.0000 | | | | | |
| Barium, Total | ug/L | MW-34A | 11/12/2014 | yes | 37.0000 | | | | | |
| Barium, Total | ug/L | MW-34A | 05/27/2015 | yes | 31.0000 | | | | | |
| Barium, Total | ug/L | MW-34A | 11/18/2015 | yes | 31.0000 | | | | | |
| Barium, Total | ug/L | MW-34A | 06/16/2016 | yes | 37.0000 | | | | | |
| Barium, Total | ug/L | MW-34A | 11/16/2016 | yes | 39.0000 | | | | | |
| Barium, Total | ug/L | MW-34A | 05/30/2017 | yes | 43.0000 | | | | | |
| Barium, Total | ug/L | MW-34A | 11/21/2017 | yes | 310.0000 | | | | | |
| Barium, Total | ug/L | MW-34A | 05/31/2018 | yes | 220.0000 | | | | | |
| Barium, Total | ug/L | MW-34A | 10/31/2018 | yes | 150.0000 | | | | | |
| Barium, Total | ug/L | MW-34A | 05/28/2019 | yes | 190.0000 | | | | | |
| Barium, Total | ug/L | MW-34A | 10/15/2019 | yes | 180.0000 | | | | | |
| Barium, Total | ug/L | MW-34A | 06/03/2020 | yes | 196.0000 | | | | | |
| Barium, Total | ug/L | MW-34A | 05/03/2021 | | 35.7000 | | | 74.9481 | | |
| Barium, Total | ug/L | MW-34A | 01/13/2022 | | 35.1000 | | | 74.9481 | | |
| Barium, Total | ug/L | MW-34A | 05/17/2022 | | 235.0000 | | | 177.7580 | | |
| Barium, Total | ug/L | MW-34A | 10/17/2022 | | 297.0000 | | | 342.5679 | | |
| Barium, Total | ug/L | MW-34A | 05/22/2023 | | 186.0000 | | | 396.3777 | | |
| Barium, Total | ug/L | MW-34A | 05/12/2025 | | 43.7000 | | | 307.8876 | | |
| Barium, Total | ug/L | MW-34A | 11/24/2025 | | 39.3000 | | | 214.9974 | | |
| Beryllium, Total | ug/L | MW-34A | 04/27/2009 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-34A | 10/26/2009 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-34A | 12/17/2009 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-34A | 04/13/2010 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-34A | 05/18/2010 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-34A | 06/21/2010 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-34A | 08/18/2010 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-34A | 10/18/2010 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-34A | 05/10/2011 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-34A | 10/19/2011 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-34A | 04/24/2012 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-34A | 10/25/2012 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-34A | 05/07/2013 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-34A | 11/11/2013 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-34A | 05/13/2014 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-34A | 11/12/2014 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-34A | 05/27/2015 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-34A | 11/18/2015 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-34A | 06/16/2016 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-34A | 11/16/2016 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-34A | 05/30/2017 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-34A | 11/21/2017 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-34A | 05/31/2018 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-34A | 10/31/2018 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-34A | 05/28/2019 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-34A | 10/15/2019 | 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 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Beryllium, Total | ug/L | MW-34A | 06/03/2020 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-34A | 05/03/2021 | | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-34A | 01/13/2022 | | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-34A | 05/17/2022 | | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-34A | 10/17/2022 | | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-34A | 05/22/2023 | | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-34A | 05/12/2025 | | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-34A | 11/24/2025 | | 4.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-34A | 04/27/2009 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-34A | 10/26/2009 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-34A | 12/17/2009 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-34A | 04/13/2010 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-34A | 05/18/2010 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-34A | 06/21/2010 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-34A | 08/18/2010 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-34A | 10/18/2010 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-34A | 05/10/2011 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-34A | 10/19/2011 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-34A | 04/24/2012 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-34A | 10/25/2012 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-34A | 05/07/2013 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-34A | 11/11/2013 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-34A | 05/13/2014 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-34A | 11/12/2014 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-34A | 05/27/2015 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-34A | 11/18/2015 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-34A | 06/16/2016 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-34A | 11/16/2016 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-34A | 05/30/2017 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-34A | 11/21/2017 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-34A | 05/31/2018 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-34A | 10/31/2018 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-34A | 05/28/2019 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-34A | 10/15/2019 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-34A | 06/03/2020 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-34A | 05/03/2021 | | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-34A | 01/13/2022 | | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-34A | 05/17/2022 | | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-34A | 10/17/2022 | | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-34A | 05/22/2023 | | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-34A | 05/12/2025 | | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-34A | 11/24/2025 | | 5.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-34A | 04/27/2009 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-34A | 10/26/2009 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-34A | 12/17/2009 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-34A | 04/13/2010 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-34A | 05/18/2010 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-34A | 06/21/2010 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-34A | 08/18/2010 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-34A | 10/18/2010 | yes | 10.0000 | 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 | MW-34A | 05/10/2011 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-34A | 10/19/2011 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-34A | 04/24/2012 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-34A | 10/25/2012 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-34A | 05/07/2013 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-34A | 11/11/2013 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-34A | 05/13/2014 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-34A | 11/12/2014 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-34A | 05/27/2015 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-34A | 11/18/2015 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-34A | 06/16/2016 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-34A | 11/16/2016 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-34A | 05/30/2017 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-34A | 11/21/2017 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-34A | 05/31/2018 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-34A | 10/31/2018 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-34A | 05/28/2019 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-34A | 10/15/2019 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-34A | 06/03/2020 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-34A | 05/03/2021 | | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-34A | 01/13/2022 | | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-34A | 05/17/2022 | | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-34A | 10/17/2022 | | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-34A | 05/22/2023 | | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-34A | 05/12/2025 | | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-34A | 11/24/2025 | | 10.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-34A | 04/27/2009 | yes | 10.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-34A | 10/26/2009 | yes | 10.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-34A | 12/17/2009 | yes | 10.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-34A | 04/13/2010 | yes | 10.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-34A | 05/18/2010 | yes | 10.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-34A | 06/21/2010 | yes | 10.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-34A | 08/18/2010 | yes | 10.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-34A | 10/18/2010 | yes | 10.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-34A | 05/10/2011 | yes | 10.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-34A | 10/19/2011 | yes | 10.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-34A | 04/24/2012 | yes | 10.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-34A | 10/25/2012 | yes | 10.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-34A | 05/07/2013 | yes | 10.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-34A | 11/11/2013 | yes | 10.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-34A | 05/13/2014 | yes | 10.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-34A | 11/12/2014 | yes | 10.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-34A | 05/27/2015 | yes | 2.8000 | ND | | | 10.0000 | *** |
| Cobalt, Total | ug/L | MW-34A | 11/18/2015 | yes | 2.8000 | ND | | | 10.0000 | *** |
| Cobalt, Total | ug/L | MW-34A | 06/16/2016 | yes | 2.8000 | ND | | | 10.0000 | *** |
| Cobalt, Total | ug/L | MW-34A | 11/16/2016 | yes | 2.8000 | ND | | | 10.0000 | *** |
| Cobalt, Total | ug/L | MW-34A | 05/30/2017 | yes | 2.8000 | ND | | | 10.0000 | *** |
| Cobalt, Total | ug/L | MW-34A | 11/21/2017 | yes | 2.8000 | ND | | | 10.0000 | *** |
| Cobalt, Total | ug/L | MW-34A | 05/31/2018 | yes | 2.8000 | ND | | | 10.0000 | *** |
| Cobalt, Total | ug/L | MW-34A | 10/31/2018 | yes | 2.8000 | ND | | | 10.0000 | *** |

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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 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Cobalt, Total | ug/L | MW-34A | 05/28/2019 | yes | 2.1000 | ND | | | 10.0000 | *** |
| Cobalt, Total | ug/L | MW-34A | 10/15/2019 | yes | 2.1000 | ND | | | 10.0000 | *** |
| Cobalt, Total | ug/L | MW-34A | 06/03/2020 | yes | 2.0000 | ND | | | 10.0000 | *** |
| Cobalt, Total | ug/L | MW-34A | 05/03/2021 | | 2.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-34A | 01/13/2022 | | 2.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-34A | 05/17/2022 | | 2.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-34A | 10/17/2022 | | 2.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-34A | 05/22/2023 | | 2.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-34A | 05/12/2025 | | 4.0200 | | | | | |
| Cobalt, Total | ug/L | MW-34A | 11/24/2025 | | 2.0000 | ND | | | | |
| Copper, Total | ug/L | MW-34A | 04/27/2009 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-34A | 10/26/2009 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-34A | 12/17/2009 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-34A | 04/13/2010 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-34A | 05/18/2010 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-34A | 06/21/2010 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-34A | 08/18/2010 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-34A | 10/18/2010 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-34A | 05/10/2011 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-34A | 10/19/2011 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-34A | 04/24/2012 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-34A | 10/25/2012 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-34A | 05/07/2013 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-34A | 11/11/2013 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-34A | 05/13/2014 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-34A | 11/12/2014 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-34A | 05/27/2015 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-34A | 11/18/2015 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-34A | 06/16/2016 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-34A | 11/16/2016 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-34A | 05/30/2017 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-34A | 11/21/2017 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-34A | 05/31/2018 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-34A | 10/31/2018 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-34A | 05/28/2019 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-34A | 10/15/2019 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-34A | 06/03/2020 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-34A | 05/03/2021 | | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-34A | 01/13/2022 | | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-34A | 05/17/2022 | | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-34A | 10/17/2022 | | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-34A | 05/22/2023 | | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-34A | 05/12/2025 | | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-34A | 11/24/2025 | | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-34A | 04/27/2009 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-34A | 10/26/2009 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-34A | 12/17/2009 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-34A | 04/13/2010 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-34A | 05/18/2010 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-34A | 06/21/2010 | yes | 10.0000 | 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 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Lead, Total | ug/L | MW-34A | 08/18/2010 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-34A | 10/18/2010 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-34A | 05/10/2011 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-34A | 10/19/2011 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-34A | 04/24/2012 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-34A | 10/25/2012 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-34A | 05/07/2013 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-34A | 11/11/2013 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-34A | 05/13/2014 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-34A | 11/12/2014 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-34A | 05/27/2015 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-34A | 11/18/2015 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-34A | 06/16/2016 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-34A | 11/16/2016 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-34A | 05/30/2017 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-34A | 11/21/2017 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-34A | 05/31/2018 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-34A | 10/31/2018 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-34A | 05/28/2019 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-34A | 10/15/2019 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-34A | 06/03/2020 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-34A | 05/03/2021 | | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-34A | 01/13/2022 | | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-34A | 05/17/2022 | | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-34A | 10/17/2022 | | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-34A | 05/22/2023 | | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-34A | 05/12/2025 | | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-34A | 11/24/2025 | | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-34A | 04/27/2009 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-34A | 10/26/2009 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-34A | 12/17/2009 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-34A | 04/13/2010 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-34A | 05/18/2010 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-34A | 06/21/2010 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-34A | 08/18/2010 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-34A | 10/18/2010 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-34A | 05/10/2011 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-34A | 10/19/2011 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-34A | 04/24/2012 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-34A | 10/25/2012 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-34A | 05/07/2013 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-34A | 11/11/2013 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-34A | 05/13/2014 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-34A | 11/12/2014 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-34A | 05/27/2015 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-34A | 11/18/2015 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-34A | 06/16/2016 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-34A | 11/16/2016 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-34A | 05/30/2017 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-34A | 11/21/2017 | yes | 10.0000 | 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 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Nickel, Total | ug/L | MW-34A | 05/31/2018 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-34A | 10/31/2018 | yes | 17.0000 | | | | | |
| Nickel, Total | ug/L | MW-34A | 05/28/2019 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-34A | 10/15/2019 | yes | 21.0000 | | | | | |
| Nickel, Total | ug/L | MW-34A | 06/03/2020 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-34A | 05/03/2021 | | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-34A | 01/13/2022 | | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-34A | 05/17/2022 | | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-34A | 10/17/2022 | | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-34A | 05/22/2023 | | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-34A | 05/12/2025 | | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-34A | 11/24/2025 | | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-34A | 04/27/2009 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-34A | 10/26/2009 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-34A | 12/17/2009 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-34A | 04/13/2010 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-34A | 05/18/2010 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-34A | 06/21/2010 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-34A | 08/18/2010 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-34A | 10/18/2010 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-34A | 05/10/2011 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-34A | 10/19/2011 | yes | 11.0000 | | | | | |
| Selenium, Total | ug/L | MW-34A | 04/24/2012 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-34A | 10/25/2012 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-34A | 05/07/2013 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-34A | 11/11/2013 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-34A | 05/13/2014 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-34A | 11/12/2014 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-34A | 05/27/2015 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-34A | 11/18/2015 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-34A | 06/16/2016 | yes | 22.0000 | | | | | |
| Selenium, Total | ug/L | MW-34A | 11/16/2016 | yes | 12.0000 | | | | | |
| Selenium, Total | ug/L | MW-34A | 05/30/2017 | yes | 25.0000 | | | | | |
| Selenium, Total | ug/L | MW-34A | 11/21/2017 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-34A | 05/31/2018 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-34A | 10/31/2018 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-34A | 05/28/2019 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-34A | 10/15/2019 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-34A | 06/03/2020 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-34A | 05/03/2021 | | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-34A | 01/13/2022 | | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-34A | 05/17/2022 | | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-34A | 10/17/2022 | | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-34A | 05/22/2023 | | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-34A | 05/12/2025 | | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-34A | 11/24/2025 | | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-34A | 04/27/2009 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-34A | 10/26/2009 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-34A | 12/17/2009 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-34A | 04/13/2010 | yes | 10.0000 | ND | | | | |

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** - 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 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Silver, Total | ug/L | MW-34A | 05/18/2010 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-34A | 06/21/2010 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-34A | 08/18/2010 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-34A | 10/18/2010 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-34A | 05/10/2011 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-34A | 10/19/2011 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-34A | 04/24/2012 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-34A | 10/25/2012 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-34A | 05/07/2013 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-34A | 11/11/2013 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-34A | 05/13/2014 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-34A | 11/12/2014 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-34A | 05/27/2015 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-34A | 11/18/2015 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-34A | 06/16/2016 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-34A | 11/16/2016 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-34A | 05/30/2017 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-34A | 11/21/2017 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-34A | 05/31/2018 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-34A | 10/31/2018 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-34A | 05/28/2019 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-34A | 10/15/2019 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-34A | 06/03/2020 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-34A | 05/03/2021 | | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-34A | 01/13/2022 | | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-34A | 05/17/2022 | | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-34A | 10/17/2022 | | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-34A | 05/22/2023 | | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-34A | 05/12/2025 | | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-34A | 11/24/2025 | | 10.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-34A | 04/27/2009 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-34A | 10/26/2009 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-34A | 12/17/2009 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-34A | 04/13/2010 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-34A | 05/18/2010 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-34A | 06/21/2010 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-34A | 08/18/2010 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-34A | 10/18/2010 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-34A | 05/10/2011 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-34A | 10/19/2011 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-34A | 04/24/2012 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-34A | 10/25/2012 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-34A | 05/07/2013 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-34A | 11/11/2013 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-34A | 05/13/2014 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-34A | 11/12/2014 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-34A | 05/27/2015 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-34A | 11/18/2015 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-34A | 06/16/2016 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-34A | 11/16/2016 | yes | 2.0000 | ND | | | | |

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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 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Thallium, Total | ug/L | MW-34A | 05/30/2017 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-34A | 11/21/2017 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-34A | 05/31/2018 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-34A | 10/31/2018 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-34A | 05/28/2019 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-34A | 10/15/2019 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-34A | 06/03/2020 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-34A | 05/03/2021 | | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-34A | 01/13/2022 | | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-34A | 05/17/2022 | | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-34A | 10/17/2022 | | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-34A | 05/22/2023 | | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-34A | 05/12/2025 | | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-34A | 11/24/2025 | | 2.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-34A | 04/27/2009 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-34A | 10/26/2009 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-34A | 12/17/2009 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-34A | 04/13/2010 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-34A | 05/18/2010 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-34A | 06/21/2010 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-34A | 08/18/2010 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-34A | 10/18/2010 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-34A | 05/10/2011 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-34A | 10/19/2011 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-34A | 04/24/2012 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-34A | 10/25/2012 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-34A | 05/07/2013 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-34A | 11/11/2013 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-34A | 05/13/2014 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-34A | 11/12/2014 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-34A | 05/27/2015 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-34A | 11/18/2015 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-34A | 06/16/2016 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-34A | 11/16/2016 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-34A | 05/30/2017 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-34A | 11/21/2017 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-34A | 05/31/2018 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-34A | 10/31/2018 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-34A | 05/28/2019 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-34A | 10/15/2019 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-34A | 06/03/2020 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-34A | 05/03/2021 | | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-34A | 01/13/2022 | | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-34A | 05/17/2022 | | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-34A | 10/17/2022 | | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-34A | 05/22/2023 | | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-34A | 05/12/2025 | | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-34A | 11/24/2025 | | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-34A | 04/27/2009 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-34A | 10/26/2009 | yes | 20.0000 | ND | | | | |

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** - 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 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Zinc, Total | ug/L | MW-34A | 12/17/2009 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-34A | 04/13/2010 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-34A | 05/18/2010 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-34A | 06/21/2010 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-34A | 08/18/2010 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-34A | 10/18/2010 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-34A | 05/10/2011 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-34A | 10/19/2011 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-34A | 04/24/2012 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-34A | 10/25/2012 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-34A | 05/07/2013 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-34A | 11/11/2013 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-34A | 05/13/2014 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-34A | 11/12/2014 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-34A | 05/27/2015 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-34A | 11/18/2015 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-34A | 06/16/2016 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-34A | 11/16/2016 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-34A | 05/30/2017 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-34A | 11/21/2017 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-34A | 05/31/2018 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-34A | 10/31/2018 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-34A | 05/28/2019 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-34A | 10/15/2019 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-34A | 06/03/2020 | yes | 50.0000 | ND | | | 20.0000 | *** |
| Zinc, Total | ug/L | MW-34A | 05/03/2021 | | 50.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-34A | 01/13/2022 | | 50.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-34A | 05/17/2022 | | 50.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-34A | 10/17/2022 | | 50.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-34A | 05/22/2023 | | 50.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-34A | 05/12/2025 | | 50.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-34A | 11/24/2025 | | 50.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-37A | 10/26/2009 | yes | 6.8000 | ND | | | 6.0000 | *** |
| Antimony, Total | ug/L | MW-37A | 11/23/2009 | yes | 6.8000 | ND | | | 6.0000 | *** |
| Antimony, Total | ug/L | MW-37A | 12/17/2009 | yes | 6.8000 | ND | | | 6.0000 | *** |
| Antimony, Total | ug/L | MW-37A | 04/13/2010 | yes | 6.8000 | ND | | | 6.0000 | *** |
| Antimony, Total | ug/L | MW-37A | 05/18/2010 | yes | 6.8000 | ND | | | 6.0000 | *** |
| Antimony, Total | ug/L | MW-37A | 06/21/2010 | yes | 6.8000 | ND | | | 6.0000 | *** |
| Antimony, Total | ug/L | MW-37A | 07/09/2010 | yes | 6.8000 | ND | | | 6.0000 | *** |
| Antimony, Total | ug/L | MW-37A | 08/18/2010 | yes | 6.8000 | ND | | | 6.0000 | *** |
| Antimony, Total | ug/L | MW-37A | 10/18/2010 | yes | 6.8000 | ND | | | 6.0000 | *** |
| Antimony, Total | ug/L | MW-37A | 05/09/2011 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-37A | 10/19/2011 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-37A | 04/24/2012 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-37A | 10/25/2012 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-37A | 05/07/2013 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-37A | 11/11/2013 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-37A | 05/13/2014 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-37A | 05/27/2015 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-37A | 11/18/2015 | yes | 6.0000 | 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 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Antimony, Total | ug/L | MW-37A | 06/16/2016 | | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-37A | 11/16/2016 | | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-37A | 05/30/2017 | | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-37A | 11/21/2017 | | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-37A | 05/31/2018 | | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-37A | 10/31/2018 | | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-37A | 05/28/2019 | | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-37A | 10/15/2019 | | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-37A | 06/03/2020 | | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-37A | 10/07/2020 | | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-37A | 05/03/2021 | | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-37A | 11/09/2021 | | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-37A | 05/17/2022 | | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-37A | 10/17/2022 | | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-37A | 06/08/2023 | | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-37A | 10/05/2023 | | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-37A | 05/20/2024 | | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-37A | 10/02/2024 | | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-37A | 05/12/2025 | | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-37A | 10/14/2025 | | 6.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-37A | 10/26/2009 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-37A | 11/23/2009 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-37A | 12/17/2009 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-37A | 04/13/2010 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-37A | 05/18/2010 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-37A | 06/21/2010 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-37A | 07/09/2010 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-37A | 08/18/2010 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-37A | 10/18/2010 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-37A | 05/09/2011 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-37A | 10/19/2011 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-37A | 04/24/2012 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-37A | 10/25/2012 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-37A | 05/07/2013 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-37A | 11/11/2013 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-37A | 05/13/2014 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-37A | 05/27/2015 | yes | 12.0000 | | | | | |
| Arsenic, Total | ug/L | MW-37A | 11/18/2015 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-37A | 06/16/2016 | | 16.0000 | | | | | ** |
| Arsenic, Total | ug/L | MW-37A | 11/16/2016 | | 19.0000 | | | | | ** |
| Arsenic, Total | ug/L | MW-37A | 05/30/2017 | | 17.0000 | | | | | ** |
| Arsenic, Total | ug/L | MW-37A | 11/21/2017 | | 34.0000 | | | | | ** |
| Arsenic, Total | ug/L | MW-37A | 05/31/2018 | | 29.0000 | | | | | ** |
| Arsenic, Total | ug/L | MW-37A | 10/31/2018 | | 40.0000 | | | | | ** |
| Arsenic, Total | ug/L | MW-37A | 05/28/2019 | | 35.0000 | | | | | ** |
| Arsenic, Total | ug/L | MW-37A | 10/15/2019 | | 33.0000 | | | | | ** |
| Arsenic, Total | ug/L | MW-37A | 06/03/2020 | | 44.6000 | | | | | ** |
| Arsenic, Total | ug/L | MW-37A | 10/07/2020 | | 36.4000 | | | | | ** |
| Arsenic, Total | ug/L | MW-37A | 05/03/2021 | | 56.2000 | | | | | ** |
| Arsenic, Total | ug/L | MW-37A | 11/09/2021 | | 53.7000 | | | | | ** |

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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 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic, Total | ug/L | MW-37A | 05/17/2022 | | 46.1000 | | | | | ** |
| Arsenic, Total | ug/L | MW-37A | 10/17/2022 | | 37.7000 | | | | | ** |
| Arsenic, Total | ug/L | MW-37A | 06/08/2023 | | 35.8000 | | | | | ** |
| Arsenic, Total | ug/L | MW-37A | 10/05/2023 | | 46.7000 | | | | | ** |
| Arsenic, Total | ug/L | MW-37A | 05/20/2024 | | 44.7000 | | | | | ** |
| Arsenic, Total | ug/L | MW-37A | 10/02/2024 | | 62.3000 | | | | | ** |
| Arsenic, Total | ug/L | MW-37A | 05/12/2025 | | 53.4000 | | | | | ** |
| Arsenic, Total | ug/L | MW-37A | 10/14/2025 | | 55.6000 | | | | | ** |
| Barium, Total | ug/L | MW-37A | 10/26/2009 | yes | 146.0000 | | | | | |
| Barium, Total | ug/L | MW-37A | 11/23/2009 | yes | 146.0000 | | | | | |
| Barium, Total | ug/L | MW-37A | 12/17/2009 | yes | 148.0000 | | | | | |
| Barium, Total | ug/L | MW-37A | 04/13/2010 | yes | 108.0000 | | | | | |
| Barium, Total | ug/L | MW-37A | 05/18/2010 | yes | 115.0000 | | | | | |
| Barium, Total | ug/L | MW-37A | 06/21/2010 | yes | 128.0000 | | | | | |
| Barium, Total | ug/L | MW-37A | 07/09/2010 | yes | 126.0000 | | | | | |
| Barium, Total | ug/L | MW-37A | 08/18/2010 | yes | 134.0000 | | | | | |
| Barium, Total | ug/L | MW-37A | 10/18/2010 | yes | 165.0000 | | | | | |
| Barium, Total | ug/L | MW-37A | 05/09/2011 | yes | 190.0000 | | | | | |
| Barium, Total | ug/L | MW-37A | 10/19/2011 | yes | 240.0000 | | | | | |
| Barium, Total | ug/L | MW-37A | 04/24/2012 | yes | 240.0000 | | | | | |
| Barium, Total | ug/L | MW-37A | 10/25/2012 | yes | 290.0000 | | | | | |
| Barium, Total | ug/L | MW-37A | 05/07/2013 | yes | 290.0000 | | | | | |
| Barium, Total | ug/L | MW-37A | 11/11/2013 | yes | 370.0000 | | | | | |
| Barium, Total | ug/L | MW-37A | 05/13/2014 | yes | 320.0000 | | | | | |
| Barium, Total | ug/L | MW-37A | 05/27/2015 | yes | 350.0000 | | | | | |
| Barium, Total | ug/L | MW-37A | 11/18/2015 | yes | 400.0000 | | | | | |
| Barium, Total | ug/L | MW-37A | 06/16/2016 | | 320.0000 | | | 247.1112 | | |
| Barium, Total | ug/L | MW-37A | 11/16/2016 | | 370.0000 | | | 327.2224 | | |
| Barium, Total | ug/L | MW-37A | 05/30/2017 | | 450.0000 | | | 487.3336 | | |
| Barium, Total | ug/L | MW-37A | 11/21/2017 | | 540.0000 | | | 737.4447 | | |
| Barium, Total | ug/L | MW-37A | 05/31/2018 | | 540.0000 | | | 987.5559 | | ** |
| Barium, Total | ug/L | MW-37A | 10/31/2018 | | 640.0000 | | | 1087.5559 | | ** |
| Barium, Total | ug/L | MW-37A | 05/28/2019 | | 650.0000 | | | 1097.5559 | | ** |
| Barium, Total | ug/L | MW-37A | 10/15/2019 | | 680.0000 | | | 1127.5559 | | ** |
| Barium, Total | ug/L | MW-37A | 06/03/2020 | | 718.0000 | | | 1165.5559 | | ** |
| Barium, Total | ug/L | MW-37A | 10/07/2020 | | 756.0000 | | | 1203.5559 | | ** |
| Barium, Total | ug/L | MW-37A | 05/03/2021 | | 805.0000 | | | 1252.5559 | | ** |
| Barium, Total | ug/L | MW-37A | 11/09/2021 | | 914.0000 | | | 1361.5559 | | ** |
| Barium, Total | ug/L | MW-37A | 05/17/2022 | | 802.0000 | | | 1249.5559 | | ** |
| Barium, Total | ug/L | MW-37A | 10/17/2022 | | 871.0000 | | | 1318.5559 | | ** |
| Barium, Total | ug/L | MW-37A | 06/08/2023 | | 982.0000 | | | 1429.5559 | | ** |
| Barium, Total | ug/L | MW-37A | 10/05/2023 | | 1140.0000 | | | 1587.5559 | | ** |
| Barium, Total | ug/L | MW-37A | 05/20/2024 | | 1160.0000 | | | 1607.5559 | | ** |
| Barium, Total | ug/L | MW-37A | 10/02/2024 | | 1420.0000 | | | 1867.5559 | | ** |
| Barium, Total | ug/L | MW-37A | 05/12/2025 | | 1320.0000 | | | 1767.5559 | | ** |
| Barium, Total | ug/L | MW-37A | 10/14/2025 | | 1230.0000 | | | 1677.5559 | | ** |
| Beryllium, Total | ug/L | MW-37A | 10/26/2009 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-37A | 11/23/2009 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-37A | 12/17/2009 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-37A | 04/13/2010 | yes | 4.0000 | ND | | | | |

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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 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Beryllium, Total | ug/L | MW-37A | 05/18/2010 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-37A | 06/21/2010 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-37A | 07/09/2010 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-37A | 08/18/2010 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-37A | 10/18/2010 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-37A | 05/09/2011 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-37A | 10/19/2011 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-37A | 04/24/2012 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-37A | 10/25/2012 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-37A | 05/07/2013 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-37A | 11/11/2013 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-37A | 05/13/2014 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-37A | 05/27/2015 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-37A | 11/18/2015 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-37A | 06/16/2016 | | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-37A | 11/16/2016 | | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-37A | 05/30/2017 | | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-37A | 11/21/2017 | | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-37A | 05/31/2018 | | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-37A | 10/31/2018 | | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-37A | 05/28/2019 | | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-37A | 10/15/2019 | | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-37A | 06/03/2020 | | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-37A | 10/07/2020 | | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-37A | 05/03/2021 | | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-37A | 11/09/2021 | | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-37A | 05/17/2022 | | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-37A | 10/17/2022 | | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-37A | 06/08/2023 | | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-37A | 10/05/2023 | | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-37A | 05/20/2024 | | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-37A | 10/02/2024 | | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-37A | 05/12/2025 | | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-37A | 10/14/2025 | | 4.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-37A | 10/26/2009 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-37A | 11/23/2009 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-37A | 12/17/2009 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-37A | 04/13/2010 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-37A | 05/18/2010 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-37A | 06/21/2010 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-37A | 07/09/2010 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-37A | 08/18/2010 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-37A | 10/18/2010 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-37A | 05/09/2011 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-37A | 10/19/2011 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-37A | 04/24/2012 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-37A | 10/25/2012 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-37A | 05/07/2013 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-37A | 11/11/2013 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-37A | 05/13/2014 | yes | 5.0000 | 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 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Cadmium, Total | ug/L | MW-37A | 05/27/2015 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-37A | 11/18/2015 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-37A | 06/16/2016 | | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-37A | 11/16/2016 | | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-37A | 05/30/2017 | | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-37A | 11/21/2017 | | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-37A | 05/31/2018 | | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-37A | 10/31/2018 | | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-37A | 05/28/2019 | | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-37A | 10/15/2019 | | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-37A | 06/03/2020 | | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-37A | 10/07/2020 | | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-37A | 05/03/2021 | | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-37A | 11/09/2021 | | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-37A | 05/17/2022 | | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-37A | 10/17/2022 | | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-37A | 06/08/2023 | | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-37A | 10/05/2023 | | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-37A | 05/20/2024 | | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-37A | 10/02/2024 | | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-37A | 05/12/2025 | | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-37A | 10/14/2025 | | 5.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-37A | 10/26/2009 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-37A | 11/23/2009 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-37A | 12/17/2009 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-37A | 04/13/2010 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-37A | 05/18/2010 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-37A | 06/21/2010 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-37A | 07/09/2010 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-37A | 08/18/2010 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-37A | 10/18/2010 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-37A | 05/09/2011 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-37A | 10/19/2011 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-37A | 04/24/2012 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-37A | 10/25/2012 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-37A | 05/07/2013 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-37A | 11/11/2013 | yes | 12.0000 | | | | | |
| Chromium, Total | ug/L | MW-37A | 05/13/2014 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-37A | 05/27/2015 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-37A | 11/18/2015 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-37A | 06/16/2016 | | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-37A | 11/16/2016 | | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-37A | 05/30/2017 | | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-37A | 11/21/2017 | | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-37A | 05/31/2018 | | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-37A | 10/31/2018 | | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-37A | 05/28/2019 | | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-37A | 10/15/2019 | | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-37A | 06/03/2020 | | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-37A | 10/07/2020 | | 10.0000 | 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 | MW-37A | 05/03/2021 | | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-37A | 11/09/2021 | | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-37A | 05/17/2022 | | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-37A | 10/17/2022 | | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-37A | 06/08/2023 | | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-37A | 10/05/2023 | | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-37A | 05/20/2024 | | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-37A | 10/02/2024 | | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-37A | 05/12/2025 | | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-37A | 10/14/2025 | | 10.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-37A | 10/26/2009 | yes | 10.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-37A | 11/23/2009 | yes | 10.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-37A | 12/17/2009 | yes | 10.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-37A | 04/13/2010 | yes | 10.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-37A | 05/18/2010 | yes | 10.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-37A | 06/21/2010 | yes | 10.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-37A | 07/09/2010 | yes | 10.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-37A | 08/18/2010 | yes | 10.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-37A | 10/18/2010 | yes | 10.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-37A | 05/09/2011 | yes | 10.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-37A | 10/19/2011 | yes | 10.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-37A | 04/24/2012 | yes | 10.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-37A | 10/25/2012 | yes | 11.0000 | | | | | |
| Cobalt, Total | ug/L | MW-37A | 05/07/2013 | yes | 10.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-37A | 11/11/2013 | yes | 16.0000 | | | | | |
| Cobalt, Total | ug/L | MW-37A | 05/13/2014 | yes | 10.0000 | | | | | |
| Cobalt, Total | ug/L | MW-37A | 05/27/2015 | yes | 11.0000 | | | | | |
| Cobalt, Total | ug/L | MW-37A | 11/18/2015 | yes | 8.3000 | | | | | |
| Cobalt, Total | ug/L | MW-37A | 06/16/2016 | | 7.8000 | | | 10.3500 | | |
| Cobalt, Total | ug/L | MW-37A | 11/16/2016 | | 7.7000 | | | 10.3500 | | |
| Cobalt, Total | ug/L | MW-37A | 05/30/2017 | | 6.8000 | | | 10.3500 | | |
| Cobalt, Total | ug/L | MW-37A | 11/21/2017 | | 6.9000 | | | 10.3500 | | |
| Cobalt, Total | ug/L | MW-37A | 05/31/2018 | | 7.3000 | | | 10.3500 | | |
| Cobalt, Total | ug/L | MW-37A | 10/31/2018 | | 8.0000 | | | 10.3500 | | |
| Cobalt, Total | ug/L | MW-37A | 05/28/2019 | | 7.0000 | | | 10.3500 | | |
| Cobalt, Total | ug/L | MW-37A | 10/15/2019 | | 7.9000 | | | 10.3500 | | |
| Cobalt, Total | ug/L | MW-37A | 06/03/2020 | | 9.1000 | | | 10.3500 | | |
| Cobalt, Total | ug/L | MW-37A | 10/07/2020 | | 9.6600 | | | 10.3500 | | |
| Cobalt, Total | ug/L | MW-37A | 05/03/2021 | | 10.6000 | | | 10.3500 | | |
| Cobalt, Total | ug/L | MW-37A | 11/09/2021 | | 12.5000 | | | 11.3686 | | |
| Cobalt, Total | ug/L | MW-37A | 05/17/2022 | | 14.0000 | | | 13.8872 | | |
| Cobalt, Total | ug/L | MW-37A | 10/17/2022 | | 13.2000 | | | 15.6059 | | |
| Cobalt, Total | ug/L | MW-37A | 06/08/2023 | | 16.0000 | | | 20.1245 | | |
| Cobalt, Total | ug/L | MW-37A | 10/05/2023 | | 18.7000 | | | 27.3431 | | ** |
| Cobalt, Total | ug/L | MW-37A | 05/20/2024 | | 18.4000 | | | 27.0431 | | ** |
| Cobalt, Total | ug/L | MW-37A | 10/02/2024 | | 23.9000 | | | 32.5431 | | ** |
| Cobalt, Total | ug/L | MW-37A | 05/12/2025 | | 23.0000 | | | 31.6431 | | ** |
| Cobalt, Total | ug/L | MW-37A | 10/14/2025 | | 21.2000 | | | 29.8431 | | ** |
| Copper, Total | ug/L | MW-37A | 10/26/2009 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-37A | 11/23/2009 | yes | 10.0000 | ND | | | | |

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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 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Copper, Total | ug/L | MW-37A | 12/17/2009 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-37A | 04/13/2010 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-37A | 05/18/2010 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-37A | 06/21/2010 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-37A | 07/09/2010 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-37A | 08/18/2010 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-37A | 10/18/2010 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-37A | 05/09/2011 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-37A | 10/19/2011 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-37A | 04/24/2012 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-37A | 10/25/2012 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-37A | 05/07/2013 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-37A | 11/11/2013 | yes | 13.0000 | | | | | |
| Copper, Total | ug/L | MW-37A | 05/13/2014 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-37A | 05/27/2015 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-37A | 11/18/2015 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-37A | 06/16/2016 | | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-37A | 11/16/2016 | | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-37A | 05/30/2017 | | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-37A | 11/21/2017 | | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-37A | 05/31/2018 | | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-37A | 10/31/2018 | | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-37A | 05/28/2019 | | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-37A | 10/15/2019 | | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-37A | 06/03/2020 | | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-37A | 10/07/2020 | | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-37A | 05/03/2021 | | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-37A | 11/09/2021 | | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-37A | 05/17/2022 | | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-37A | 10/17/2022 | | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-37A | 06/08/2023 | | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-37A | 10/05/2023 | | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-37A | 05/20/2024 | | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-37A | 10/02/2024 | | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-37A | 05/12/2025 | | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-37A | 10/14/2025 | | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-37A | 10/26/2009 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-37A | 11/23/2009 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-37A | 12/17/2009 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-37A | 04/13/2010 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-37A | 05/18/2010 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-37A | 06/21/2010 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-37A | 07/09/2010 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-37A | 08/18/2010 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-37A | 10/18/2010 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-37A | 05/09/2011 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-37A | 10/19/2011 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-37A | 04/24/2012 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-37A | 10/25/2012 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-37A | 05/07/2013 | yes | 10.0000 | ND | | | | |

* - Outlier for that well and constituent.
** - Non-outlier detected sample Result and / or CUSUM value exceeds limit.
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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 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Lead, Total | ug/L | MW-37A | 11/11/2013 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-37A | 05/13/2014 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-37A | 05/27/2015 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-37A | 11/18/2015 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-37A | 06/16/2016 | | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-37A | 11/16/2016 | | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-37A | 05/30/2017 | | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-37A | 11/21/2017 | | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-37A | 05/31/2018 | | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-37A | 10/31/2018 | | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-37A | 05/28/2019 | | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-37A | 10/15/2019 | | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-37A | 06/03/2020 | | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-37A | 10/07/2020 | | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-37A | 05/03/2021 | | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-37A | 11/09/2021 | | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-37A | 05/17/2022 | | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-37A | 10/17/2022 | | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-37A | 06/08/2023 | | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-37A | 10/05/2023 | | 11.3000 | | | | | ** |
| Lead, Total | ug/L | MW-37A | 05/20/2024 | | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-37A | 10/02/2024 | | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-37A | 05/12/2025 | | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-37A | 10/14/2025 | | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-37A | 10/26/2009 | yes | 40.8000 | | | | | |
| Nickel, Total | ug/L | MW-37A | 11/23/2009 | yes | 39.0000 | | | | | |
| Nickel, Total | ug/L | MW-37A | 12/17/2009 | yes | 40.4000 | | | | | |
| Nickel, Total | ug/L | MW-37A | 04/13/2010 | yes | 37.8000 | | | | | |
| Nickel, Total | ug/L | MW-37A | 05/18/2010 | yes | 35.9000 | | | | | |
| Nickel, Total | ug/L | MW-37A | 06/21/2010 | yes | 37.8000 | | | | | |
| Nickel, Total | ug/L | MW-37A | 07/09/2010 | yes | 36.9000 | | | | | |
| Nickel, Total | ug/L | MW-37A | 08/18/2010 | yes | 40.7000 | | | | | |
| Nickel, Total | ug/L | MW-37A | 10/18/2010 | yes | 42.2000 | | | | | |
| Nickel, Total | ug/L | MW-37A | 05/09/2011 | yes | 38.0000 | | | | | |
| Nickel, Total | ug/L | MW-37A | 10/19/2011 | yes | 46.0000 | | | | | |
| Nickel, Total | ug/L | MW-37A | 04/24/2012 | yes | 48.0000 | | | | | |
| Nickel, Total | ug/L | MW-37A | 10/25/2012 | yes | 54.0000 | | | | | |
| Nickel, Total | ug/L | MW-37A | 05/07/2013 | yes | 66.0000 | | | | | |
| Nickel, Total | ug/L | MW-37A | 11/11/2013 | yes | 60.0000 | | | | | |
| Nickel, Total | ug/L | MW-37A | 05/13/2014 | yes | 64.0000 | | | | | |
| Nickel, Total | ug/L | MW-37A | 05/27/2015 | yes | 57.0000 | | | | | |
| Nickel, Total | ug/L | MW-37A | 11/18/2015 | yes | 100.0000 | | | | | |
| Nickel, Total | ug/L | MW-37A | 06/16/2016 | | 45.0000 | | | 49.1389 | | |
| Nickel, Total | ug/L | MW-37A | 11/16/2016 | | 48.0000 | | | 49.1389 | | |
| Nickel, Total | ug/L | MW-37A | 05/30/2017 | | 51.0000 | | | 49.1389 | | |
| Nickel, Total | ug/L | MW-37A | 11/21/2017 | | 51.0000 | | | 49.1389 | | |
| Nickel, Total | ug/L | MW-37A | 05/31/2018 | | 53.0000 | | | 49.1389 | | |
| Nickel, Total | ug/L | MW-37A | 10/31/2018 | | 63.0000 | | | 50.9602 | | |
| Nickel, Total | ug/L | MW-37A | 05/28/2019 | | 77.0000 | | | 66.7816 | | |
| Nickel, Total | ug/L | MW-37A | 10/15/2019 | | 75.0000 | | | 80.6030 | | |

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ND = Not detected, Result = detection limit.

## Table 2

## Analytical Data and CUSUM Summary

| Constituent | Units | Well | Date | Background | Result | | Outlier | CUSUM | Adjusted | |
|---|---|---|---|---|---|---|---|---|---|---|
| Nickel, Total | ug/L | MW-37A | 06/03/2020 | | 83.4000 | | | 102.8243 | | |
| Nickel, Total | ug/L | MW-37A | 10/07/2020 | | 101.0000 | | | 142.6457 | | |
| Nickel, Total | ug/L | MW-37A | 05/03/2021 | | 90.3000 | | | 171.7670 | | ** |
| Nickel, Total | ug/L | MW-37A | 11/09/2021 | | 106.0000 | | | 187.4670 | | ** |
| Nickel, Total | ug/L | MW-37A | 05/17/2022 | | 102.0000 | | | 183.4670 | | ** |
| Nickel, Total | ug/L | MW-37A | 10/17/2022 | | 135.0000 | | | 216.4670 | | ** |
| Nickel, Total | ug/L | MW-37A | 06/08/2023 | | 131.0000 | | | 212.4670 | | ** |
| Nickel, Total | ug/L | MW-37A | 10/05/2023 | | 178.0000 | | | 259.4670 | | ** |
| Nickel, Total | ug/L | MW-37A | 05/20/2024 | | 181.0000 | | | 262.4670 | | ** |
| Nickel, Total | ug/L | MW-37A | 10/02/2024 | | 258.0000 | | | 339.4670 | | ** |
| Nickel, Total | ug/L | MW-37A | 05/12/2025 | | 278.0000 | | | 359.4670 | | ** |
| Nickel, Total | ug/L | MW-37A | 10/14/2025 | | 289.0000 | | | 370.4670 | | ** |
| Selenium, Total | ug/L | MW-37A | 10/26/2009 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-37A | 11/23/2009 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-37A | 12/17/2009 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-37A | 04/13/2010 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-37A | 05/18/2010 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-37A | 06/21/2010 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-37A | 07/09/2010 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-37A | 08/18/2010 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-37A | 10/18/2010 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-37A | 05/09/2011 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-37A | 10/19/2011 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-37A | 04/24/2012 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-37A | 10/25/2012 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-37A | 05/07/2013 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-37A | 11/11/2013 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-37A | 05/13/2014 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-37A | 05/27/2015 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-37A | 11/18/2015 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-37A | 06/16/2016 | | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-37A | 11/16/2016 | | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-37A | 05/30/2017 | | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-37A | 11/21/2017 | | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-37A | 05/31/2018 | | 26.0000 | | | | | ** |
| Selenium, Total | ug/L | MW-37A | 10/31/2018 | | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-37A | 05/28/2019 | | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-37A | 10/15/2019 | | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-37A | 06/03/2020 | | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-37A | 10/07/2020 | | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-37A | 05/03/2021 | | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-37A | 11/09/2021 | | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-37A | 05/17/2022 | | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-37A | 10/17/2022 | | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-37A | 06/08/2023 | | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-37A | 10/05/2023 | | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-37A | 05/20/2024 | | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-37A | 10/02/2024 | | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-37A | 05/12/2025 | | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-37A | 10/14/2025 | | 10.0000 | ND | | | | |

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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 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Silver, Total | ug/L | MW-37A | 10/26/2009 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-37A | 11/23/2009 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-37A | 12/17/2009 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-37A | 04/13/2010 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-37A | 05/18/2010 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-37A | 06/21/2010 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-37A | 07/09/2010 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-37A | 08/18/2010 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-37A | 10/18/2010 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-37A | 05/09/2011 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-37A | 10/19/2011 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-37A | 04/24/2012 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-37A | 10/25/2012 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-37A | 05/07/2013 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-37A | 11/11/2013 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-37A | 05/13/2014 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-37A | 05/27/2015 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-37A | 11/18/2015 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-37A | 06/16/2016 | | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-37A | 11/16/2016 | | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-37A | 05/30/2017 | | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-37A | 11/21/2017 | | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-37A | 05/31/2018 | | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-37A | 10/31/2018 | | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-37A | 05/28/2019 | | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-37A | 10/15/2019 | | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-37A | 06/03/2020 | | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-37A | 10/07/2020 | | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-37A | 05/03/2021 | | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-37A | 11/09/2021 | | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-37A | 05/17/2022 | | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-37A | 10/17/2022 | | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-37A | 06/08/2023 | | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-37A | 10/05/2023 | | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-37A | 05/20/2024 | | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-37A | 10/02/2024 | | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-37A | 05/12/2025 | | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-37A | 10/14/2025 | | 10.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-37A | 10/26/2009 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-37A | 11/23/2009 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-37A | 12/17/2009 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-37A | 04/13/2010 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-37A | 05/18/2010 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-37A | 06/21/2010 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-37A | 07/09/2010 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-37A | 08/18/2010 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-37A | 10/18/2010 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-37A | 05/09/2011 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-37A | 10/19/2011 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-37A | 04/24/2012 | yes | 2.0000 | 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 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Thallium, Total | ug/L | MW-37A | 10/25/2012 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-37A | 05/07/2013 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-37A | 11/11/2013 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-37A | 05/13/2014 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-37A | 05/27/2015 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-37A | 11/18/2015 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-37A | 06/16/2016 | | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-37A | 11/16/2016 | | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-37A | 05/30/2017 | | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-37A | 11/21/2017 | | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-37A | 05/31/2018 | | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-37A | 10/31/2018 | | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-37A | 05/28/2019 | | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-37A | 10/15/2019 | | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-37A | 06/03/2020 | | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-37A | 10/07/2020 | | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-37A | 05/03/2021 | | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-37A | 11/09/2021 | | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-37A | 05/17/2022 | | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-37A | 10/17/2022 | | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-37A | 06/08/2023 | | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-37A | 10/05/2023 | | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-37A | 05/20/2024 | | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-37A | 10/02/2024 | | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-37A | 05/12/2025 | | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-37A | 10/14/2025 | | 2.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-37A | 10/26/2009 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-37A | 11/23/2009 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-37A | 12/17/2009 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-37A | 04/13/2010 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-37A | 05/18/2010 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-37A | 06/21/2010 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-37A | 07/09/2010 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-37A | 08/18/2010 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-37A | 10/18/2010 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-37A | 05/09/2011 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-37A | 10/19/2011 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-37A | 04/24/2012 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-37A | 10/25/2012 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-37A | 05/07/2013 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-37A | 11/11/2013 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-37A | 05/13/2014 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-37A | 05/27/2015 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-37A | 11/18/2015 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-37A | 06/16/2016 | | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-37A | 11/16/2016 | | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-37A | 05/30/2017 | | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-37A | 11/21/2017 | | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-37A | 05/31/2018 | | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-37A | 10/31/2018 | | 20.0000 | 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 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Vanadium, Total | ug/L | MW-37A | 05/28/2019 | | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-37A | 10/15/2019 | | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-37A | 06/03/2020 | | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-37A | 10/07/2020 | | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-37A | 05/03/2021 | | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-37A | 11/09/2021 | | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-37A | 05/17/2022 | | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-37A | 10/17/2022 | | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-37A | 06/08/2023 | | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-37A | 10/05/2023 | | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-37A | 05/20/2024 | | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-37A | 10/02/2024 | | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-37A | 05/12/2025 | | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-37A | 10/14/2025 | | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-37A | 10/26/2009 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-37A | 11/23/2009 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-37A | 12/17/2009 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-37A | 04/13/2010 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-37A | 05/18/2010 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-37A | 06/21/2010 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-37A | 07/09/2010 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-37A | 08/18/2010 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-37A | 10/18/2010 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-37A | 05/09/2011 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-37A | 10/19/2011 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-37A | 04/24/2012 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-37A | 10/25/2012 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-37A | 05/07/2013 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-37A | 11/11/2013 | yes | 24.0000 | | | | | |
| Zinc, Total | ug/L | MW-37A | 05/13/2014 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-37A | 05/27/2015 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-37A | 11/18/2015 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-37A | 06/16/2016 | | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-37A | 11/16/2016 | | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-37A | 05/30/2017 | | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-37A | 11/21/2017 | | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-37A | 05/31/2018 | | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-37A | 10/31/2018 | | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-37A | 05/28/2019 | | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-37A | 10/15/2019 | | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-37A | 06/03/2020 | | 50.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-37A | 10/07/2020 | | 50.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-37A | 05/03/2021 | | 50.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-37A | 11/09/2021 | | 50.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-37A | 05/17/2022 | | 50.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-37A | 10/17/2022 | | 50.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-37A | 06/08/2023 | | 50.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-37A | 10/05/2023 | | 50.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-37A | 05/20/2024 | | 50.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-37A | 10/02/2024 | | 50.0000 | ND | | | | |

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ND = Not detected, Result = detection limit.

## Table 2

## Analytical Data and CUSUM Summary

| Constituent | Units | Well | Date | Background | Result | | Outlier | CUSUM | Adjusted | |
|---|---|---|---|---|---|---|---|---|---|---|
| Zinc, Total | ug/L | MW-37A | 05/12/2025 | | 50.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-37A | 10/14/2025 | | 50.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-38A | 10/26/2009 | yes | 6.8000 | ND | | | 6.0000 | *** |
| Antimony, Total | ug/L | MW-38A | 11/23/2009 | yes | 6.8000 | ND | | | 6.0000 | *** |
| Antimony, Total | ug/L | MW-38A | 12/17/2009 | yes | 6.8000 | ND | | | 6.0000 | *** |
| Antimony, Total | ug/L | MW-38A | 04/13/2010 | yes | 6.8000 | ND | | | 6.0000 | *** |
| Antimony, Total | ug/L | MW-38A | 05/18/2010 | yes | 6.8000 | ND | | | 6.0000 | *** |
| Antimony, Total | ug/L | MW-38A | 06/21/2010 | yes | 6.8000 | ND | | | 6.0000 | *** |
| Antimony, Total | ug/L | MW-38A | 07/09/2010 | yes | 6.8000 | ND | | | 6.0000 | *** |
| Antimony, Total | ug/L | MW-38A | 08/18/2010 | yes | 6.8000 | ND | | | 6.0000 | *** |
| Antimony, Total | ug/L | MW-38A | 10/18/2010 | yes | 6.8000 | ND | | | 6.0000 | *** |
| Antimony, Total | ug/L | MW-38A | 05/09/2011 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-38A | 10/19/2011 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-38A | 04/24/2012 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-38A | 10/25/2012 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-38A | 05/07/2013 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-38A | 11/11/2013 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-38A | 05/13/2014 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-38A | 05/27/2015 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-38A | 11/18/2015 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-38A | 06/16/2016 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-38A | 11/16/2016 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-38A | 05/30/2017 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-38A | 11/21/2017 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-38A | 05/31/2018 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-38A | 10/31/2018 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-38A | 05/28/2019 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-38A | 10/15/2019 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-38A | 06/03/2020 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-38A | 10/07/2020 | | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-38A | 05/03/2021 | | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-38A | 11/09/2021 | | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-38A | 05/17/2022 | | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-38A | 10/17/2022 | | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-38A | 05/22/2023 | | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-38A | 10/23/2023 | | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-38A | 05/20/2024 | | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-38A | 10/02/2024 | | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-38A | 05/12/2025 | | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-38A | 10/14/2025 | | 6.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-38A | 10/26/2009 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-38A | 11/23/2009 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-38A | 12/17/2009 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-38A | 04/13/2010 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-38A | 05/18/2010 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-38A | 06/21/2010 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-38A | 07/09/2010 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-38A | 08/18/2010 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-38A | 10/18/2010 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-38A | 05/09/2011 | yes | 10.0000 | 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 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic, Total | ug/L | MW-38A | 10/19/2011 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-38A | 04/24/2012 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-38A | 10/25/2012 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-38A | 05/07/2013 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-38A | 11/11/2013 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-38A | 05/13/2014 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-38A | 05/27/2015 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-38A | 11/18/2015 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-38A | 06/16/2016 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-38A | 11/16/2016 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-38A | 05/30/2017 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-38A | 11/21/2017 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-38A | 05/31/2018 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-38A | 10/31/2018 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-38A | 05/28/2019 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-38A | 10/15/2019 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-38A | 06/03/2020 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-38A | 10/07/2020 | | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-38A | 05/03/2021 | | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-38A | 11/09/2021 | | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-38A | 05/17/2022 | | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-38A | 10/17/2022 | | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-38A | 05/22/2023 | | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-38A | 10/23/2023 | | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-38A | 05/20/2024 | | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-38A | 10/02/2024 | | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-38A | 05/12/2025 | | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-38A | 10/14/2025 | | 10.0000 | ND | | | | |
| Barium, Total | ug/L | MW-38A | 10/26/2009 | yes | 195.0000 | | | | | |
| Barium, Total | ug/L | MW-38A | 11/23/2009 | yes | 215.0000 | | | | | |
| Barium, Total | ug/L | MW-38A | 12/17/2009 | yes | 250.0000 | | | | | |
| Barium, Total | ug/L | MW-38A | 04/13/2010 | yes | 185.0000 | | | | | |
| Barium, Total | ug/L | MW-38A | 05/18/2010 | yes | 186.0000 | | | | | |
| Barium, Total | ug/L | MW-38A | 06/21/2010 | yes | 192.0000 | | | | | |
| Barium, Total | ug/L | MW-38A | 07/09/2010 | yes | 185.0000 | | | | | |
| Barium, Total | ug/L | MW-38A | 08/18/2010 | yes | 213.0000 | | | | | |
| Barium, Total | ug/L | MW-38A | 10/18/2010 | yes | 224.0000 | | | | | |
| Barium, Total | ug/L | MW-38A | 05/09/2011 | yes | 200.0000 | | | | | |
| Barium, Total | ug/L | MW-38A | 10/19/2011 | yes | 200.0000 | | | | | |
| Barium, Total | ug/L | MW-38A | 04/24/2012 | yes | 210.0000 | | | | | |
| Barium, Total | ug/L | MW-38A | 10/25/2012 | yes | 220.0000 | | | | | |
| Barium, Total | ug/L | MW-38A | 05/07/2013 | yes | 230.0000 | | | | | |
| Barium, Total | ug/L | MW-38A | 11/11/2013 | yes | 240.0000 | | | | | |
| Barium, Total | ug/L | MW-38A | 05/13/2014 | yes | 220.0000 | | | | | |
| Barium, Total | ug/L | MW-38A | 05/27/2015 | yes | 210.0000 | | | | | |
| Barium, Total | ug/L | MW-38A | 11/18/2015 | yes | 200.0000 | | | | | |
| Barium, Total | ug/L | MW-38A | 06/16/2016 | yes | 200.0000 | | | | | |
| Barium, Total | ug/L | MW-38A | 11/16/2016 | yes | 220.0000 | | | | | |
| Barium, Total | ug/L | MW-38A | 05/30/2017 | yes | 210.0000 | | | | | |
| Barium, Total | ug/L | MW-38A | 11/21/2017 | yes | 230.0000 | | | | | |

* - 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 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Barium, Total | ug/L | MW-38A | 05/31/2018 | yes | 200.0000 | | | | | |
| Barium, Total | ug/L | MW-38A | 10/31/2018 | yes | 210.0000 | | | | | |
| Barium, Total | ug/L | MW-38A | 05/28/2019 | yes | 240.0000 | | | | | |
| Barium, Total | ug/L | MW-38A | 10/15/2019 | yes | 230.0000 | | | | | |
| Barium, Total | ug/L | MW-38A | 06/03/2020 | yes | 242.0000 | | | | | |
| Barium, Total | ug/L | MW-38A | 10/07/2020 | | 255.0000 | | | 241.2423 | | |
| Barium, Total | ug/L | MW-38A | 05/03/2021 | | 231.0000 | | | 245.2624 | | |
| Barium, Total | ug/L | MW-38A | 11/09/2021 | | 280.0000 | | | 298.2825 | | |
| Barium, Total | ug/L | MW-38A | 05/17/2022 | | 243.0000 | | | 314.3026 | | |
| Barium, Total | ug/L | MW-38A | 10/17/2022 | | 277.0000 | | | 364.3227 | | ** |
| Barium, Total | ug/L | MW-38A | 05/22/2023 | | 237.0000 | | | 324.3227 | | |
| Barium, Total | ug/L | MW-38A | 10/23/2023 | | 300.0000 | | | 397.3427 | | ** |
| Barium, Total | ug/L | MW-38A | 05/20/2024 | | 260.0000 | | | 357.3427 | | ** |
| Barium, Total | ug/L | MW-38A | 10/02/2024 | | 216.0000 | | | 313.3427 | | |
| Barium, Total | ug/L | MW-38A | 05/12/2025 | | 216.0000 | | | 302.3628 | | |
| Barium, Total | ug/L | MW-38A | 10/14/2025 | | 204.0000 | | | 279.3829 | | |
| Beryllium, Total | ug/L | MW-38A | 10/26/2009 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-38A | 11/23/2009 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-38A | 12/17/2009 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-38A | 04/13/2010 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-38A | 05/18/2010 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-38A | 06/21/2010 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-38A | 07/09/2010 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-38A | 08/18/2010 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-38A | 10/18/2010 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-38A | 05/09/2011 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-38A | 10/19/2011 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-38A | 04/24/2012 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-38A | 10/25/2012 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-38A | 05/07/2013 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-38A | 11/11/2013 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-38A | 05/13/2014 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-38A | 05/27/2015 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-38A | 11/18/2015 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-38A | 06/16/2016 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-38A | 11/16/2016 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-38A | 05/30/2017 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-38A | 11/21/2017 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-38A | 05/31/2018 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-38A | 10/31/2018 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-38A | 05/28/2019 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-38A | 10/15/2019 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-38A | 06/03/2020 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-38A | 10/07/2020 | | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-38A | 05/03/2021 | | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-38A | 11/09/2021 | | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-38A | 05/17/2022 | | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-38A | 10/17/2022 | | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-38A | 05/22/2023 | | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-38A | 10/23/2023 | | 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 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Beryllium, Total | ug/L | MW-38A | 05/20/2024 | | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-38A | 10/02/2024 | | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-38A | 05/12/2025 | | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-38A | 10/14/2025 | | 4.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-38A | 10/26/2009 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-38A | 11/23/2009 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-38A | 12/17/2009 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-38A | 04/13/2010 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-38A | 05/18/2010 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-38A | 06/21/2010 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-38A | 07/09/2010 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-38A | 08/18/2010 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-38A | 10/18/2010 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-38A | 05/09/2011 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-38A | 10/19/2011 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-38A | 04/24/2012 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-38A | 10/25/2012 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-38A | 05/07/2013 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-38A | 11/11/2013 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-38A | 05/13/2014 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-38A | 05/27/2015 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-38A | 11/18/2015 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-38A | 06/16/2016 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-38A | 11/16/2016 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-38A | 05/30/2017 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-38A | 11/21/2017 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-38A | 05/31/2018 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-38A | 10/31/2018 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-38A | 05/28/2019 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-38A | 10/15/2019 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-38A | 06/03/2020 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-38A | 10/07/2020 | | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-38A | 05/03/2021 | | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-38A | 11/09/2021 | | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-38A | 05/17/2022 | | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-38A | 10/17/2022 | | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-38A | 05/22/2023 | | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-38A | 10/23/2023 | | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-38A | 05/20/2024 | | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-38A | 10/02/2024 | | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-38A | 05/12/2025 | | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-38A | 10/14/2025 | | 5.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-38A | 10/26/2009 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-38A | 11/23/2009 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-38A | 12/17/2009 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-38A | 04/13/2010 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-38A | 05/18/2010 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-38A | 06/21/2010 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-38A | 07/09/2010 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-38A | 08/18/2010 | yes | 10.0000 | 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 | MW-38A | 10/18/2010 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-38A | 05/09/2011 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-38A | 10/19/2011 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-38A | 04/24/2012 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-38A | 10/25/2012 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-38A | 05/07/2013 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-38A | 11/11/2013 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-38A | 05/13/2014 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-38A | 05/27/2015 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-38A | 11/18/2015 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-38A | 06/16/2016 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-38A | 11/16/2016 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-38A | 05/30/2017 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-38A | 11/21/2017 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-38A | 05/31/2018 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-38A | 10/31/2018 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-38A | 05/28/2019 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-38A | 10/15/2019 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-38A | 06/03/2020 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-38A | 10/07/2020 | | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-38A | 05/03/2021 | | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-38A | 11/09/2021 | | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-38A | 05/17/2022 | | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-38A | 10/17/2022 | | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-38A | 05/22/2023 | | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-38A | 10/23/2023 | | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-38A | 05/20/2024 | | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-38A | 10/02/2024 | | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-38A | 05/12/2025 | | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-38A | 10/14/2025 | | 10.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-38A | 10/26/2009 | yes | 10.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-38A | 11/23/2009 | yes | 10.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-38A | 12/17/2009 | yes | 10.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-38A | 04/13/2010 | yes | 10.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-38A | 05/18/2010 | yes | 10.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-38A | 06/21/2010 | yes | 10.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-38A | 07/09/2010 | yes | 10.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-38A | 08/18/2010 | yes | 10.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-38A | 10/18/2010 | yes | 10.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-38A | 05/09/2011 | yes | 10.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-38A | 10/19/2011 | yes | 10.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-38A | 04/24/2012 | yes | 10.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-38A | 10/25/2012 | yes | 10.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-38A | 05/07/2013 | yes | 10.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-38A | 11/11/2013 | yes | 10.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-38A | 05/13/2014 | yes | 10.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-38A | 05/27/2015 | yes | 2.8000 | ND | | | 10.0000 | *** |
| Cobalt, Total | ug/L | MW-38A | 11/18/2015 | yes | 2.8000 | ND | | | 10.0000 | *** |
| Cobalt, Total | ug/L | MW-38A | 06/16/2016 | yes | 2.8000 | ND | | | 10.0000 | *** |
| Cobalt, Total | ug/L | MW-38A | 11/16/2016 | yes | 2.8000 | ND | | | 10.0000 | *** |

* - 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 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Cobalt, Total | ug/L | MW-38A | 05/30/2017 | yes | 2.8000 | ND | | | 10.0000 | *** |
| Cobalt, Total | ug/L | MW-38A | 11/21/2017 | yes | 2.8000 | ND | | | 10.0000 | *** |
| Cobalt, Total | ug/L | MW-38A | 05/31/2018 | yes | 2.8000 | ND | | | 10.0000 | *** |
| Cobalt, Total | ug/L | MW-38A | 10/31/2018 | yes | 2.8000 | ND | | | 10.0000 | *** |
| Cobalt, Total | ug/L | MW-38A | 05/28/2019 | yes | 2.1000 | ND | | | 10.0000 | *** |
| Cobalt, Total | ug/L | MW-38A | 10/15/2019 | yes | 2.1000 | ND | | | 10.0000 | *** |
| Cobalt, Total | ug/L | MW-38A | 06/03/2020 | yes | 2.0000 | ND | | | 10.0000 | *** |
| Cobalt, Total | ug/L | MW-38A | 10/07/2020 | | 2.1000 | ND | | | | |
| Cobalt, Total | ug/L | MW-38A | 05/03/2021 | | 2.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-38A | 11/09/2021 | | 2.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-38A | 05/17/2022 | | 2.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-38A | 10/17/2022 | | 2.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-38A | 05/22/2023 | | 2.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-38A | 10/23/2023 | | 2.4700 | | | | | |
| Cobalt, Total | ug/L | MW-38A | 11/27/2023 | | 2.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-38A | 05/20/2024 | | 2.0700 | | | | | |
| Cobalt, Total | ug/L | MW-38A | 10/02/2024 | | 2.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-38A | 05/12/2025 | | 2.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-38A | 10/14/2025 | | 2.0000 | ND | | | | |
| Copper, Total | ug/L | MW-38A | 10/26/2009 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-38A | 11/23/2009 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-38A | 12/17/2009 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-38A | 04/13/2010 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-38A | 05/18/2010 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-38A | 06/21/2010 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-38A | 07/09/2010 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-38A | 08/18/2010 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-38A | 10/18/2010 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-38A | 05/09/2011 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-38A | 10/19/2011 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-38A | 04/24/2012 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-38A | 10/25/2012 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-38A | 05/07/2013 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-38A | 11/11/2013 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-38A | 05/13/2014 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-38A | 05/27/2015 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-38A | 11/18/2015 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-38A | 06/16/2016 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-38A | 11/16/2016 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-38A | 05/30/2017 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-38A | 11/21/2017 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-38A | 05/31/2018 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-38A | 10/31/2018 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-38A | 05/28/2019 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-38A | 10/15/2019 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-38A | 06/03/2020 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-38A | 10/07/2020 | | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-38A | 05/03/2021 | | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-38A | 11/09/2021 | | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-38A | 05/17/2022 | | 10.0000 | 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 | MW-38A | 10/17/2022 | | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-38A | 05/22/2023 | | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-38A | 10/23/2023 | | 11.1000 | | | | | ** |
| Copper, Total | ug/L | MW-38A | 05/20/2024 | | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-38A | 10/02/2024 | | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-38A | 05/12/2025 | | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-38A | 10/14/2025 | | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-38A | 10/26/2009 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-38A | 11/23/2009 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-38A | 12/17/2009 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-38A | 04/13/2010 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-38A | 05/18/2010 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-38A | 06/21/2010 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-38A | 07/09/2010 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-38A | 08/18/2010 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-38A | 10/18/2010 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-38A | 05/09/2011 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-38A | 10/19/2011 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-38A | 04/24/2012 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-38A | 10/25/2012 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-38A | 05/07/2013 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-38A | 11/11/2013 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-38A | 05/13/2014 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-38A | 05/27/2015 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-38A | 11/18/2015 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-38A | 06/16/2016 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-38A | 11/16/2016 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-38A | 05/30/2017 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-38A | 11/21/2017 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-38A | 05/31/2018 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-38A | 10/31/2018 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-38A | 05/28/2019 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-38A | 10/15/2019 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-38A | 06/03/2020 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-38A | 10/07/2020 | | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-38A | 05/03/2021 | | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-38A | 11/09/2021 | | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-38A | 05/17/2022 | | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-38A | 10/17/2022 | | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-38A | 05/22/2023 | | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-38A | 10/23/2023 | | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-38A | 05/20/2024 | | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-38A | 10/02/2024 | | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-38A | 05/12/2025 | | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-38A | 10/14/2025 | | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-38A | 10/26/2009 | yes | 28.4000 | | | | | |
| Nickel, Total | ug/L | MW-38A | 11/23/2009 | yes | 31.1000 | | | | | |
| Nickel, Total | ug/L | MW-38A | 12/17/2009 | yes | 35.1000 | | | | | |
| Nickel, Total | ug/L | MW-38A | 04/13/2010 | yes | 27.8000 | | | | | |
| Nickel, Total | ug/L | MW-38A | 05/18/2010 | yes | 28.0000 | | | | | |

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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 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Nickel, Total | ug/L | MW-38A | 06/21/2010 | yes | 28.2000 | | | | | |
| Nickel, Total | ug/L | MW-38A | 07/09/2010 | yes | 26.9000 | | | | | |
| Nickel, Total | ug/L | MW-38A | 08/18/2010 | yes | 32.6000 | | | | | |
| Nickel, Total | ug/L | MW-38A | 10/18/2010 | yes | 38.0000 | | | | | |
| Nickel, Total | ug/L | MW-38A | 05/09/2011 | yes | 26.0000 | | | | | |
| Nickel, Total | ug/L | MW-38A | 10/19/2011 | yes | 25.0000 | | | | | |
| Nickel, Total | ug/L | MW-38A | 04/24/2012 | yes | 27.0000 | | | | | |
| Nickel, Total | ug/L | MW-38A | 10/25/2012 | yes | 24.0000 | | | | | |
| Nickel, Total | ug/L | MW-38A | 05/07/2013 | yes | 25.0000 | | | | | |
| Nickel, Total | ug/L | MW-38A | 11/11/2013 | yes | 26.0000 | | | | | |
| Nickel, Total | ug/L | MW-38A | 05/13/2014 | yes | 19.0000 | | | | | |
| Nickel, Total | ug/L | MW-38A | 05/27/2015 | yes | 19.0000 | | | | | |
| Nickel, Total | ug/L | MW-38A | 11/18/2015 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-38A | 06/16/2016 | yes | 10.0000 | | | | | |
| Nickel, Total | ug/L | MW-38A | 11/16/2016 | yes | 10.0000 | | | | | |
| Nickel, Total | ug/L | MW-38A | 05/30/2017 | yes | 13.0000 | | | | | |
| Nickel, Total | ug/L | MW-38A | 11/21/2017 | yes | 16.0000 | | | | | |
| Nickel, Total | ug/L | MW-38A | 05/31/2018 | yes | 17.0000 | | | | | |
| Nickel, Total | ug/L | MW-38A | 10/31/2018 | yes | 18.0000 | | | | | |
| Nickel, Total | ug/L | MW-38A | 05/28/2019 | yes | 18.0000 | | | | | |
| Nickel, Total | ug/L | MW-38A | 10/15/2019 | yes | 21.0000 | | | | | |
| Nickel, Total | ug/L | MW-38A | 06/03/2020 | yes | 26.5000 | | | | | |
| Nickel, Total | ug/L | MW-38A | 10/07/2020 | | 30.9000 | | | 25.2401 | | |
| Nickel, Total | ug/L | MW-38A | 05/03/2021 | | 27.7000 | | | 24.0727 | | |
| Nickel, Total | ug/L | MW-38A | 11/09/2021 | | 29.6000 | | | 24.8054 | | |
| Nickel, Total | ug/L | MW-38A | 05/17/2022 | | 30.6000 | | | 26.5381 | | |
| Nickel, Total | ug/L | MW-38A | 10/17/2022 | | 36.1000 | | | 33.7707 | | |
| Nickel, Total | ug/L | MW-38A | 05/22/2023 | | 25.7000 | | | 30.6034 | | |
| Nickel, Total | ug/L | MW-38A | 10/23/2023 | | 28.8000 | | | 30.5361 | | |
| Nickel, Total | ug/L | MW-38A | 05/20/2024 | | 39.1000 | | | 40.7687 | | |
| Nickel, Total | ug/L | MW-38A | 10/02/2024 | | 31.6000 | | | 43.5014 | | |
| Nickel, Total | ug/L | MW-38A | 05/12/2025 | | 31.7000 | | | 46.3341 | | |
| Nickel, Total | ug/L | MW-38A | 10/14/2025 | | 31.5000 | | | 48.9667 | | |
| Selenium, Total | ug/L | MW-38A | 10/26/2009 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-38A | 11/23/2009 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-38A | 12/17/2009 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-38A | 04/13/2010 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-38A | 05/18/2010 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-38A | 06/21/2010 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-38A | 07/09/2010 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-38A | 08/18/2010 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-38A | 10/18/2010 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-38A | 05/09/2011 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-38A | 10/19/2011 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-38A | 04/24/2012 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-38A | 10/25/2012 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-38A | 05/07/2013 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-38A | 11/11/2013 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-38A | 05/13/2014 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-38A | 05/27/2015 | yes | 10.0000 | ND | | | | |

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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 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Selenium, Total | ug/L | MW-38A | 11/18/2015 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-38A | 06/16/2016 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-38A | 11/16/2016 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-38A | 05/30/2017 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-38A | 11/21/2017 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-38A | 05/31/2018 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-38A | 10/31/2018 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-38A | 05/28/2019 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-38A | 10/15/2019 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-38A | 06/03/2020 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-38A | 10/07/2020 | | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-38A | 05/03/2021 | | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-38A | 11/09/2021 | | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-38A | 05/17/2022 | | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-38A | 10/17/2022 | | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-38A | 05/22/2023 | | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-38A | 10/23/2023 | | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-38A | 05/20/2024 | | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-38A | 10/02/2024 | | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-38A | 05/12/2025 | | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-38A | 10/14/2025 | | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-38A | 10/26/2009 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-38A | 11/23/2009 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-38A | 12/17/2009 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-38A | 04/13/2010 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-38A | 05/18/2010 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-38A | 06/21/2010 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-38A | 07/09/2010 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-38A | 08/18/2010 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-38A | 10/18/2010 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-38A | 05/09/2011 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-38A | 10/19/2011 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-38A | 04/24/2012 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-38A | 10/25/2012 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-38A | 05/07/2013 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-38A | 11/11/2013 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-38A | 05/13/2014 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-38A | 05/27/2015 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-38A | 11/18/2015 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-38A | 06/16/2016 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-38A | 11/16/2016 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-38A | 05/30/2017 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-38A | 11/21/2017 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-38A | 05/31/2018 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-38A | 10/31/2018 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-38A | 05/28/2019 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-38A | 10/15/2019 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-38A | 06/03/2020 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-38A | 10/07/2020 | | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-38A | 05/03/2021 | | 10.0000 | 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 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Silver, Total | ug/L | MW-38A | 11/09/2021 | | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-38A | 05/17/2022 | | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-38A | 10/17/2022 | | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-38A | 05/22/2023 | | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-38A | 10/23/2023 | | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-38A | 05/20/2024 | | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-38A | 10/02/2024 | | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-38A | 05/12/2025 | | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-38A | 10/14/2025 | | 10.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-38A | 10/26/2009 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-38A | 11/23/2009 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-38A | 12/17/2009 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-38A | 04/13/2010 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-38A | 05/18/2010 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-38A | 06/21/2010 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-38A | 07/09/2010 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-38A | 08/18/2010 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-38A | 10/18/2010 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-38A | 05/09/2011 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-38A | 10/19/2011 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-38A | 04/24/2012 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-38A | 10/25/2012 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-38A | 05/07/2013 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-38A | 11/11/2013 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-38A | 05/13/2014 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-38A | 05/27/2015 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-38A | 11/18/2015 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-38A | 06/16/2016 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-38A | 11/16/2016 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-38A | 05/30/2017 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-38A | 11/21/2017 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-38A | 05/31/2018 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-38A | 10/31/2018 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-38A | 05/28/2019 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-38A | 10/15/2019 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-38A | 06/03/2020 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-38A | 10/07/2020 | | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-38A | 05/03/2021 | | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-38A | 11/09/2021 | | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-38A | 05/17/2022 | | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-38A | 10/17/2022 | | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-38A | 05/22/2023 | | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-38A | 10/23/2023 | | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-38A | 05/20/2024 | | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-38A | 10/02/2024 | | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-38A | 05/12/2025 | | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-38A | 10/14/2025 | | 2.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-38A | 10/26/2009 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-38A | 11/23/2009 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-38A | 12/17/2009 | yes | 20.0000 | 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 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Vanadium, Total | ug/L | MW-38A | 04/13/2010 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-38A | 05/18/2010 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-38A | 06/21/2010 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-38A | 07/09/2010 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-38A | 08/18/2010 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-38A | 10/18/2010 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-38A | 05/09/2011 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-38A | 10/19/2011 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-38A | 04/24/2012 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-38A | 10/25/2012 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-38A | 05/07/2013 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-38A | 11/11/2013 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-38A | 05/13/2014 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-38A | 05/27/2015 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-38A | 11/18/2015 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-38A | 06/16/2016 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-38A | 11/16/2016 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-38A | 05/30/2017 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-38A | 11/21/2017 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-38A | 05/31/2018 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-38A | 10/31/2018 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-38A | 05/28/2019 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-38A | 10/15/2019 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-38A | 06/03/2020 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-38A | 10/07/2020 | | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-38A | 05/03/2021 | | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-38A | 11/09/2021 | | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-38A | 05/17/2022 | | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-38A | 10/17/2022 | | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-38A | 05/22/2023 | | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-38A | 10/23/2023 | | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-38A | 05/20/2024 | | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-38A | 10/02/2024 | | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-38A | 05/12/2025 | | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-38A | 10/14/2025 | | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-38A | 10/26/2009 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-38A | 11/23/2009 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-38A | 12/17/2009 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-38A | 04/13/2010 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-38A | 05/18/2010 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-38A | 06/21/2010 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-38A | 07/09/2010 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-38A | 08/18/2010 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-38A | 10/18/2010 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-38A | 05/09/2011 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-38A | 10/19/2011 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-38A | 04/24/2012 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-38A | 10/25/2012 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-38A | 05/07/2013 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-38A | 11/11/2013 | yes | 20.0000 | 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 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Zinc, Total | ug/L | MW-38A | 05/13/2014 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-38A | 05/27/2015 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-38A | 11/18/2015 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-38A | 06/16/2016 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-38A | 11/16/2016 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-38A | 05/30/2017 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-38A | 11/21/2017 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-38A | 05/31/2018 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-38A | 10/31/2018 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-38A | 05/28/2019 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-38A | 10/15/2019 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-38A | 06/03/2020 | yes | 50.0000 | ND | | | 20.0000 | *** |
| Zinc, Total | ug/L | MW-38A | 10/07/2020 | | 50.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-38A | 05/03/2021 | | 50.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-38A | 11/09/2021 | | 50.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-38A | 05/17/2022 | | 50.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-38A | 10/17/2022 | | 50.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-38A | 05/22/2023 | | 50.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-38A | 10/23/2023 | | 50.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-38A | 05/20/2024 | | 50.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-38A | 10/02/2024 | | 50.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-38A | 05/12/2025 | | 50.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-38A | 10/14/2025 | | 50.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-39A | 08/06/2012 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-39A | 10/25/2012 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-39A | 05/07/2013 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-39A | 08/01/2013 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-39A | 09/25/2013 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-39A | 11/11/2013 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-39A | 05/13/2014 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-39A | 08/11/2014 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-39A | 11/12/2014 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-39A | 05/27/2015 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-39A | 11/18/2015 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-39A | 06/16/2016 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-39A | 11/16/2016 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-39A | 05/30/2017 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-39A | 11/21/2017 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-39A | 05/31/2018 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-39A | 10/31/2018 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-39A | 05/28/2019 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-39A | 10/15/2019 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-39A | 06/03/2020 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-39A | 10/07/2020 | | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-39A | 05/03/2021 | | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-39A | 11/09/2021 | | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-39A | 05/17/2022 | | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-39A | 10/17/2022 | | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-39A | 05/22/2023 | | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-39A | 10/05/2023 | | 6.0000 | ND | | | | |

* - Outlier for that well and constituent.
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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 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Antimony, Total | ug/L | MW-39A | 05/20/2024 | | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-39A | 10/02/2024 | | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-39A | 05/12/2025 | | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-39A | 10/14/2025 | | 6.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-39A | 08/06/2012 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-39A | 10/25/2012 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-39A | 05/07/2013 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-39A | 08/01/2013 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-39A | 09/25/2013 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-39A | 11/11/2013 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-39A | 05/13/2014 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-39A | 08/11/2014 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-39A | 11/12/2014 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-39A | 05/27/2015 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-39A | 11/18/2015 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-39A | 06/16/2016 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-39A | 11/16/2016 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-39A | 05/30/2017 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-39A | 11/21/2017 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-39A | 05/31/2018 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-39A | 10/31/2018 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-39A | 05/28/2019 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-39A | 10/15/2019 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-39A | 06/03/2020 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-39A | 10/07/2020 | | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-39A | 05/03/2021 | | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-39A | 11/09/2021 | | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-39A | 05/17/2022 | | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-39A | 10/17/2022 | | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-39A | 05/22/2023 | | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-39A | 10/05/2023 | | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-39A | 05/20/2024 | | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-39A | 10/02/2024 | | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-39A | 05/12/2025 | | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-39A | 10/14/2025 | | 10.0000 | ND | | | | |
| Barium, Total | ug/L | MW-39A | 08/06/2012 | yes | 290.0000 | | | | | |
| Barium, Total | ug/L | MW-39A | 10/25/2012 | yes | 490.0000 | | | | | |
| Barium, Total | ug/L | MW-39A | 05/07/2013 | yes | 300.0000 | | | | | |
| Barium, Total | ug/L | MW-39A | 08/01/2013 | yes | 290.0000 | | | | | |
| Barium, Total | ug/L | MW-39A | 09/25/2013 | yes | 290.0000 | | | | | |
| Barium, Total | ug/L | MW-39A | 11/11/2013 | yes | 310.0000 | | | | | |
| Barium, Total | ug/L | MW-39A | 05/13/2014 | yes | 270.0000 | | | | | |
| Barium, Total | ug/L | MW-39A | 08/11/2014 | yes | 300.0000 | | | | | |
| Barium, Total | ug/L | MW-39A | 11/12/2014 | yes | 330.0000 | | | | | |
| Barium, Total | ug/L | MW-39A | 05/27/2015 | yes | 290.0000 | | | | | |
| Barium, Total | ug/L | MW-39A | 11/18/2015 | yes | 310.0000 | | | | | |
| Barium, Total | ug/L | MW-39A | 06/16/2016 | yes | 250.0000 | | | | | |
| Barium, Total | ug/L | MW-39A | 11/16/2016 | yes | 340.0000 | | | | | |
| Barium, Total | ug/L | MW-39A | 05/30/2017 | yes | 260.0000 | | | | | |
| Barium, Total | ug/L | MW-39A | 11/21/2017 | yes | 320.0000 | | | | | |

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## Table 2

## Analytical Data and CUSUM Summary

| Constituent | Units | Well | Date | Background | Result | | Outlier | CUSUM | Adjusted | |
|---|---|---|---|---|---|---|---|---|---|---|
| Barium, Total | ug/L | MW-39A | 05/31/2018 | yes | 220.0000 | | | | | |
| Barium, Total | ug/L | MW-39A | 10/31/2018 | yes | 280.0000 | | | | | |
| Barium, Total | ug/L | MW-39A | 05/28/2019 | yes | 200.0000 | | | | | |
| Barium, Total | ug/L | MW-39A | 10/15/2019 | yes | 270.0000 | | | | | |
| Barium, Total | ug/L | MW-39A | 06/03/2020 | yes | 192.0000 | | | | | |
| Barium, Total | ug/L | MW-39A | 10/07/2020 | | 267.0000 | | | 290.1000 | | |
| Barium, Total | ug/L | MW-39A | 05/03/2021 | | 286.0000 | | | 290.1000 | | |
| Barium, Total | ug/L | MW-39A | 11/09/2021 | | 390.0000 | | | 343.8298 | | |
| Barium, Total | ug/L | MW-39A | 05/17/2022 | | 251.0000 | | | 290.1000 | | |
| Barium, Total | ug/L | MW-39A | 10/17/2022 | | 325.0000 | | | 290.1000 | | |
| Barium, Total | ug/L | MW-39A | 05/22/2023 | | 208.0000 | | | 290.1000 | | |
| Barium, Total | ug/L | MW-39A | 10/05/2023 | | 301.0000 | | | 290.1000 | | |
| Barium, Total | ug/L | MW-39A | 05/20/2024 | | 167.0000 | | | 290.1000 | | |
| Barium, Total | ug/L | MW-39A | 10/02/2024 | | 253.0000 | | | 290.1000 | | |
| Barium, Total | ug/L | MW-39A | 05/12/2025 | | 275.0000 | | | 290.1000 | | |
| Barium, Total | ug/L | MW-39A | 10/14/2025 | | 267.0000 | | | 290.1000 | | |
| Beryllium, Total | ug/L | MW-39A | 08/06/2012 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-39A | 10/25/2012 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-39A | 05/07/2013 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-39A | 08/01/2013 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-39A | 09/25/2013 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-39A | 11/11/2013 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-39A | 05/13/2014 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-39A | 08/11/2014 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-39A | 11/12/2014 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-39A | 05/27/2015 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-39A | 11/18/2015 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-39A | 06/16/2016 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-39A | 11/16/2016 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-39A | 05/30/2017 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-39A | 11/21/2017 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-39A | 05/31/2018 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-39A | 10/31/2018 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-39A | 05/28/2019 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-39A | 10/15/2019 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-39A | 06/03/2020 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-39A | 10/07/2020 | | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-39A | 05/03/2021 | | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-39A | 11/09/2021 | | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-39A | 05/17/2022 | | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-39A | 10/17/2022 | | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-39A | 05/22/2023 | | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-39A | 10/05/2023 | | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-39A | 05/20/2024 | | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-39A | 10/02/2024 | | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-39A | 05/12/2025 | | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-39A | 10/14/2025 | | 4.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-39A | 08/06/2012 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-39A | 10/25/2012 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-39A | 05/07/2013 | yes | 5.0000 | 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 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Cadmium, Total | ug/L | MW-39A | 08/01/2013 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-39A | 09/25/2013 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-39A | 11/11/2013 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-39A | 05/13/2014 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-39A | 08/11/2014 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-39A | 11/12/2014 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-39A | 05/27/2015 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-39A | 11/18/2015 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-39A | 06/16/2016 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-39A | 11/16/2016 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-39A | 05/30/2017 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-39A | 11/21/2017 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-39A | 05/31/2018 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-39A | 10/31/2018 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-39A | 05/28/2019 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-39A | 10/15/2019 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-39A | 06/03/2020 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-39A | 10/07/2020 | | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-39A | 05/03/2021 | | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-39A | 11/09/2021 | | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-39A | 05/17/2022 | | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-39A | 10/17/2022 | | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-39A | 05/22/2023 | | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-39A | 10/05/2023 | | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-39A | 05/20/2024 | | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-39A | 10/02/2024 | | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-39A | 05/12/2025 | | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-39A | 10/14/2025 | | 5.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-39A | 08/06/2012 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-39A | 10/25/2012 | yes | 22.0000 | | yes | | | * |
| Chromium, Total | ug/L | MW-39A | 05/07/2013 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-39A | 08/01/2013 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-39A | 09/25/2013 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-39A | 11/11/2013 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-39A | 05/13/2014 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-39A | 08/11/2014 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-39A | 11/12/2014 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-39A | 05/27/2015 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-39A | 11/18/2015 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-39A | 06/16/2016 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-39A | 11/16/2016 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-39A | 05/30/2017 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-39A | 11/21/2017 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-39A | 05/31/2018 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-39A | 10/31/2018 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-39A | 05/28/2019 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-39A | 10/15/2019 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-39A | 06/03/2020 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-39A | 10/07/2020 | | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-39A | 05/03/2021 | | 10.0000 | 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 | MW-39A | 11/09/2021 | | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-39A | 05/17/2022 | | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-39A | 10/17/2022 | | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-39A | 05/22/2023 | | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-39A | 10/05/2023 | | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-39A | 05/20/2024 | | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-39A | 10/02/2024 | | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-39A | 05/12/2025 | | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-39A | 10/14/2025 | | 10.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-39A | 08/06/2012 | yes | 10.0000 | ND | | | 2.8000 | *** |
| Cobalt, Total | ug/L | MW-39A | 10/25/2012 | yes | 10.0000 | ND | | | 2.8000 | *** |
| Cobalt, Total | ug/L | MW-39A | 05/07/2013 | yes | 10.0000 | ND | | | 2.8000 | *** |
| Cobalt, Total | ug/L | MW-39A | 08/01/2013 | yes | 10.0000 | ND | | | 2.8000 | *** |
| Cobalt, Total | ug/L | MW-39A | 09/25/2013 | yes | 10.0000 | ND | | | 2.8000 | *** |
| Cobalt, Total | ug/L | MW-39A | 11/11/2013 | yes | 10.0000 | ND | | | 2.8000 | *** |
| Cobalt, Total | ug/L | MW-39A | 05/13/2014 | yes | 10.0000 | ND | | | 2.8000 | *** |
| Cobalt, Total | ug/L | MW-39A | 08/11/2014 | yes | 10.0000 | ND | | | 2.8000 | *** |
| Cobalt, Total | ug/L | MW-39A | 11/12/2014 | yes | 10.0000 | ND | | | 2.8000 | *** |
| Cobalt, Total | ug/L | MW-39A | 05/27/2015 | yes | 2.8000 | ND | | | | |
| Cobalt, Total | ug/L | MW-39A | 11/18/2015 | yes | 2.8000 | ND | | | | |
| Cobalt, Total | ug/L | MW-39A | 06/16/2016 | yes | 2.8000 | ND | | | | |
| Cobalt, Total | ug/L | MW-39A | 11/16/2016 | yes | 2.8000 | ND | | | | |
| Cobalt, Total | ug/L | MW-39A | 05/30/2017 | yes | 2.8000 | ND | | | | |
| Cobalt, Total | ug/L | MW-39A | 11/21/2017 | yes | 2.8000 | ND | | | | |
| Cobalt, Total | ug/L | MW-39A | 05/31/2018 | yes | 2.8000 | ND | | | | |
| Cobalt, Total | ug/L | MW-39A | 10/31/2018 | yes | 2.8000 | ND | | | | |
| Cobalt, Total | ug/L | MW-39A | 05/28/2019 | yes | 2.1000 | ND | | | 2.8000 | *** |
| Cobalt, Total | ug/L | MW-39A | 10/15/2019 | yes | 2.1000 | ND | | | 2.8000 | *** |
| Cobalt, Total | ug/L | MW-39A | 06/03/2020 | yes | 2.0000 | ND | | | 2.8000 | *** |
| Cobalt, Total | ug/L | MW-39A | 10/07/2020 | | 2.1000 | ND | | | | |
| Cobalt, Total | ug/L | MW-39A | 05/03/2021 | | 2.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-39A | 11/09/2021 | | 2.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-39A | 05/17/2022 | | 2.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-39A | 10/17/2022 | | 2.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-39A | 05/22/2023 | | 2.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-39A | 10/05/2023 | | 2.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-39A | 05/20/2024 | | 2.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-39A | 10/02/2024 | | 2.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-39A | 05/12/2025 | | 2.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-39A | 10/14/2025 | | 2.0000 | ND | | | | |
| Copper, Total | ug/L | MW-39A | 08/06/2012 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-39A | 10/25/2012 | yes | 17.0000 | | yes | | | * |
| Copper, Total | ug/L | MW-39A | 05/07/2013 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-39A | 08/01/2013 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-39A | 09/25/2013 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-39A | 11/11/2013 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-39A | 05/13/2014 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-39A | 08/11/2014 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-39A | 11/12/2014 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-39A | 05/27/2015 | yes | 10.0000 | 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 | MW-39A | 11/18/2015 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-39A | 06/16/2016 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-39A | 11/16/2016 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-39A | 05/30/2017 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-39A | 11/21/2017 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-39A | 05/31/2018 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-39A | 10/31/2018 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-39A | 05/28/2019 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-39A | 10/15/2019 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-39A | 06/03/2020 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-39A | 10/07/2020 | | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-39A | 05/03/2021 | | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-39A | 11/09/2021 | | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-39A | 05/17/2022 | | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-39A | 10/17/2022 | | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-39A | 05/22/2023 | | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-39A | 10/05/2023 | | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-39A | 05/20/2024 | | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-39A | 10/02/2024 | | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-39A | 05/12/2025 | | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-39A | 10/14/2025 | | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-39A | 08/06/2012 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-39A | 10/25/2012 | yes | 24.0000 | | yes | | | * |
| Lead, Total | ug/L | MW-39A | 05/07/2013 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-39A | 08/01/2013 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-39A | 09/25/2013 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-39A | 11/11/2013 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-39A | 05/13/2014 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-39A | 08/11/2014 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-39A | 11/12/2014 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-39A | 05/27/2015 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-39A | 11/18/2015 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-39A | 06/16/2016 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-39A | 11/16/2016 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-39A | 05/30/2017 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-39A | 11/21/2017 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-39A | 05/31/2018 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-39A | 10/31/2018 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-39A | 05/28/2019 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-39A | 10/15/2019 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-39A | 06/03/2020 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-39A | 10/07/2020 | | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-39A | 05/03/2021 | | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-39A | 11/09/2021 | | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-39A | 05/17/2022 | | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-39A | 10/17/2022 | | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-39A | 05/22/2023 | | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-39A | 10/05/2023 | | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-39A | 05/20/2024 | | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-39A | 10/02/2024 | | 10.0000 | 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 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Lead, Total | ug/L | MW-39A | 05/12/2025 | | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-39A | 10/14/2025 | | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-39A | 08/06/2012 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-39A | 10/25/2012 | yes | 30.0000 | | yes | | | * |
| Nickel, Total | ug/L | MW-39A | 05/07/2013 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-39A | 08/01/2013 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-39A | 09/25/2013 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-39A | 11/11/2013 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-39A | 05/13/2014 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-39A | 08/11/2014 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-39A | 11/12/2014 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-39A | 05/27/2015 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-39A | 11/18/2015 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-39A | 06/16/2016 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-39A | 11/16/2016 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-39A | 05/30/2017 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-39A | 11/21/2017 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-39A | 05/31/2018 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-39A | 10/31/2018 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-39A | 05/28/2019 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-39A | 10/15/2019 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-39A | 06/03/2020 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-39A | 10/07/2020 | | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-39A | 05/03/2021 | | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-39A | 11/09/2021 | | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-39A | 05/17/2022 | | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-39A | 10/17/2022 | | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-39A | 05/22/2023 | | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-39A | 10/05/2023 | | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-39A | 05/20/2024 | | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-39A | 10/02/2024 | | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-39A | 05/12/2025 | | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-39A | 10/14/2025 | | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-39A | 08/06/2012 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-39A | 10/25/2012 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-39A | 05/07/2013 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-39A | 08/01/2013 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-39A | 09/25/2013 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-39A | 11/11/2013 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-39A | 05/13/2014 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-39A | 08/11/2014 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-39A | 11/12/2014 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-39A | 05/27/2015 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-39A | 11/18/2015 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-39A | 06/16/2016 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-39A | 11/16/2016 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-39A | 05/30/2017 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-39A | 11/21/2017 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-39A | 05/31/2018 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-39A | 10/31/2018 | yes | 10.0000 | 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 | MW-39A | 05/28/2019 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-39A | 10/15/2019 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-39A | 06/03/2020 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-39A | 10/07/2020 | | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-39A | 05/03/2021 | | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-39A | 11/09/2021 | | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-39A | 05/17/2022 | | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-39A | 10/17/2022 | | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-39A | 05/22/2023 | | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-39A | 10/05/2023 | | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-39A | 05/20/2024 | | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-39A | 10/02/2024 | | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-39A | 05/12/2025 | | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-39A | 10/14/2025 | | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-39A | 08/06/2012 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-39A | 10/25/2012 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-39A | 05/07/2013 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-39A | 08/01/2013 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-39A | 09/25/2013 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-39A | 11/11/2013 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-39A | 05/13/2014 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-39A | 08/11/2014 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-39A | 11/12/2014 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-39A | 05/27/2015 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-39A | 11/18/2015 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-39A | 06/16/2016 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-39A | 11/16/2016 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-39A | 05/30/2017 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-39A | 11/21/2017 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-39A | 05/31/2018 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-39A | 10/31/2018 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-39A | 05/28/2019 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-39A | 10/15/2019 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-39A | 06/03/2020 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-39A | 10/07/2020 | | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-39A | 05/03/2021 | | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-39A | 11/09/2021 | | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-39A | 05/17/2022 | | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-39A | 10/17/2022 | | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-39A | 05/22/2023 | | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-39A | 10/05/2023 | | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-39A | 05/20/2024 | | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-39A | 10/02/2024 | | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-39A | 05/12/2025 | | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-39A | 10/14/2025 | | 10.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-39A | 08/06/2012 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-39A | 10/25/2012 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-39A | 05/07/2013 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-39A | 08/01/2013 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-39A | 09/25/2013 | yes | 2.0000 | 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 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Thallium, Total | ug/L | MW-39A | 11/11/2013 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-39A | 05/13/2014 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-39A | 08/11/2014 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-39A | 11/12/2014 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-39A | 05/27/2015 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-39A | 11/18/2015 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-39A | 06/16/2016 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-39A | 11/16/2016 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-39A | 05/30/2017 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-39A | 11/21/2017 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-39A | 05/31/2018 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-39A | 10/31/2018 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-39A | 05/28/2019 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-39A | 10/15/2019 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-39A | 06/03/2020 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-39A | 10/07/2020 | | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-39A | 05/03/2021 | | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-39A | 11/09/2021 | | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-39A | 05/17/2022 | | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-39A | 10/17/2022 | | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-39A | 05/22/2023 | | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-39A | 10/05/2023 | | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-39A | 05/20/2024 | | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-39A | 10/02/2024 | | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-39A | 05/12/2025 | | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-39A | 10/14/2025 | | 2.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-39A | 08/06/2012 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-39A | 10/25/2012 | yes | 50.0000 | | yes | | | * |
| Vanadium, Total | ug/L | MW-39A | 05/07/2013 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-39A | 08/01/2013 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-39A | 09/25/2013 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-39A | 11/11/2013 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-39A | 05/13/2014 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-39A | 08/11/2014 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-39A | 11/12/2014 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-39A | 05/27/2015 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-39A | 11/18/2015 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-39A | 06/16/2016 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-39A | 11/16/2016 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-39A | 05/30/2017 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-39A | 11/21/2017 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-39A | 05/31/2018 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-39A | 10/31/2018 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-39A | 05/28/2019 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-39A | 10/15/2019 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-39A | 06/03/2020 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-39A | 10/07/2020 | | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-39A | 05/03/2021 | | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-39A | 11/09/2021 | | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-39A | 05/17/2022 | | 20.0000 | ND | | | | |

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** - 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 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Vanadium, Total | ug/L | MW-39A | 10/17/2022 | | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-39A | 05/22/2023 | | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-39A | 10/05/2023 | | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-39A | 05/20/2024 | | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-39A | 10/02/2024 | | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-39A | 05/12/2025 | | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-39A | 10/14/2025 | | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-39A | 08/06/2012 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-39A | 10/25/2012 | yes | 55.0000 | | yes | | | * |
| Zinc, Total | ug/L | MW-39A | 05/07/2013 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-39A | 08/01/2013 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-39A | 09/25/2013 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-39A | 11/11/2013 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-39A | 05/13/2014 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-39A | 08/11/2014 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-39A | 11/12/2014 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-39A | 05/27/2015 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-39A | 11/18/2015 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-39A | 06/16/2016 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-39A | 11/16/2016 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-39A | 05/30/2017 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-39A | 11/21/2017 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-39A | 05/31/2018 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-39A | 10/31/2018 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-39A | 05/28/2019 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-39A | 10/15/2019 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-39A | 06/03/2020 | yes | 50.0000 | ND | | | 20.0000 | *** |
| Zinc, Total | ug/L | MW-39A | 10/07/2020 | | 50.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-39A | 05/03/2021 | | 50.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-39A | 11/09/2021 | | 50.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-39A | 05/17/2022 | | 50.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-39A | 10/17/2022 | | 50.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-39A | 05/22/2023 | | 50.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-39A | 10/05/2023 | | 50.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-39A | 05/20/2024 | | 50.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-39A | 10/02/2024 | | 50.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-39A | 05/12/2025 | | 50.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-39A | 10/14/2025 | | 50.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-40A | 11/12/2014 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-40A | 03/18/2015 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-40A | 05/27/2015 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-40A | 08/20/2015 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-40A | 11/18/2015 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-40A | 04/25/2016 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-40A | 06/16/2016 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-40A | 08/17/2016 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-40A | 11/16/2016 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-40A | 05/30/2017 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-40A | 11/21/2017 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-40A | 05/31/2018 | yes | 6.0000 | ND | | | | |

* - Outlier for that well and constituent.
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*** - ND value replaced with median RL.
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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 | MW-40A | 10/31/2018 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-40A | 05/28/2019 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-40A | 10/15/2019 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-40A | 06/03/2020 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-40A | 10/07/2020 | | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-40A | 05/03/2021 | | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-40A | 11/09/2021 | | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-40A | 05/17/2022 | | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-40A | 10/17/2022 | | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-40A | 05/22/2023 | | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-40A | 10/05/2023 | | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-40A | 05/20/2024 | | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-40A | 10/02/2024 | | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-40A | 05/12/2025 | | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-40A | 10/14/2025 | | 6.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-40A | 11/12/2014 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-40A | 03/18/2015 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-40A | 05/27/2015 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-40A | 08/20/2015 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-40A | 11/18/2015 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-40A | 04/25/2016 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-40A | 06/16/2016 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-40A | 08/17/2016 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-40A | 11/16/2016 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-40A | 05/30/2017 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-40A | 11/21/2017 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-40A | 05/31/2018 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-40A | 10/31/2018 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-40A | 05/28/2019 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-40A | 10/15/2019 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-40A | 06/03/2020 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-40A | 10/07/2020 | | 12.0000 | | | | | ** |
| Arsenic, Total | ug/L | MW-40A | 12/17/2020 | | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-40A | 05/03/2021 | | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-40A | 11/09/2021 | | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-40A | 05/17/2022 | | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-40A | 10/17/2022 | | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-40A | 05/22/2023 | | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-40A | 10/05/2023 | | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-40A | 05/20/2024 | | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-40A | 10/02/2024 | | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-40A | 05/12/2025 | | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-40A | 10/14/2025 | | 10.0000 | ND | | | | |
| Barium, Total | ug/L | MW-40A | 11/12/2014 | yes | 250.0000 | | | | | |
| Barium, Total | ug/L | MW-40A | 03/18/2015 | yes | 240.0000 | | | | | |
| Barium, Total | ug/L | MW-40A | 05/27/2015 | yes | 190.0000 | | | | | |
| Barium, Total | ug/L | MW-40A | 08/20/2015 | yes | 190.0000 | | | | | |
| Barium, Total | ug/L | MW-40A | 11/18/2015 | yes | 240.0000 | | | | | |
| Barium, Total | ug/L | MW-40A | 04/25/2016 | yes | 290.0000 | | | | | |
| Barium, Total | ug/L | MW-40A | 06/16/2016 | yes | 290.0000 | | | | | |

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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 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Barium, Total | ug/L | MW-40A | 08/17/2016 | yes | 310.0000 | | | | | |
| Barium, Total | ug/L | MW-40A | 11/16/2016 | yes | 290.0000 | | | | | |
| Barium, Total | ug/L | MW-40A | 05/30/2017 | yes | 300.0000 | | | | | |
| Barium, Total | ug/L | MW-40A | 11/21/2017 | yes | 340.0000 | | | | | |
| Barium, Total | ug/L | MW-40A | 05/31/2018 | yes | 290.0000 | | | | | |
| Barium, Total | ug/L | MW-40A | 10/31/2018 | yes | 300.0000 | | | | | |
| Barium, Total | ug/L | MW-40A | 05/28/2019 | yes | 290.0000 | | | | | |
| Barium, Total | ug/L | MW-40A | 10/15/2019 | yes | 270.0000 | | | | | |
| Barium, Total | ug/L | MW-40A | 06/03/2020 | yes | 293.0000 | | | | | |
| Barium, Total | ug/L | MW-40A | 10/07/2020 | | 305.0000 | | | 273.9838 | | |
| Barium, Total | ug/L | MW-40A | 05/03/2021 | | 236.0000 | | | 273.3125 | | |
| Barium, Total | ug/L | MW-40A | 11/09/2021 | | 245.0000 | | | 273.3125 | | |
| Barium, Total | ug/L | MW-40A | 05/17/2022 | | 220.0000 | | | 273.3125 | | |
| Barium, Total | ug/L | MW-40A | 10/17/2022 | | 259.0000 | | | 273.3125 | | |
| Barium, Total | ug/L | MW-40A | 05/22/2023 | | 263.0000 | | | 273.3125 | | |
| Barium, Total | ug/L | MW-40A | 10/05/2023 | | 314.0000 | | | 282.9838 | | |
| Barium, Total | ug/L | MW-40A | 05/20/2024 | | 251.0000 | | | 273.3125 | | |
| Barium, Total | ug/L | MW-40A | 10/02/2024 | | 272.0000 | | | 273.3125 | | |
| Barium, Total | ug/L | MW-40A | 05/12/2025 | | 221.0000 | | | 273.3125 | | |
| Barium, Total | ug/L | MW-40A | 10/14/2025 | | 274.0000 | | | 273.3125 | | |
| Beryllium, Total | ug/L | MW-40A | 11/12/2014 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-40A | 03/18/2015 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-40A | 05/27/2015 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-40A | 08/20/2015 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-40A | 11/18/2015 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-40A | 04/25/2016 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-40A | 06/16/2016 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-40A | 08/17/2016 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-40A | 11/16/2016 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-40A | 05/30/2017 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-40A | 11/21/2017 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-40A | 05/31/2018 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-40A | 10/31/2018 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-40A | 05/28/2019 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-40A | 10/15/2019 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-40A | 06/03/2020 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-40A | 10/07/2020 | | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-40A | 05/03/2021 | | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-40A | 11/09/2021 | | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-40A | 05/17/2022 | | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-40A | 10/17/2022 | | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-40A | 05/22/2023 | | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-40A | 10/05/2023 | | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-40A | 05/20/2024 | | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-40A | 10/02/2024 | | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-40A | 05/12/2025 | | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-40A | 10/14/2025 | | 4.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-40A | 11/12/2014 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-40A | 03/18/2015 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-40A | 05/27/2015 | yes | 5.0000 | ND | | | | |

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** - 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 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Cadmium, Total | ug/L | MW-40A | 08/20/2015 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-40A | 11/18/2015 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-40A | 04/25/2016 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-40A | 06/16/2016 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-40A | 08/17/2016 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-40A | 11/16/2016 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-40A | 05/30/2017 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-40A | 11/21/2017 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-40A | 05/31/2018 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-40A | 10/31/2018 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-40A | 05/28/2019 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-40A | 10/15/2019 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-40A | 06/03/2020 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-40A | 10/07/2020 | | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-40A | 05/03/2021 | | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-40A | 11/09/2021 | | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-40A | 05/17/2022 | | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-40A | 10/17/2022 | | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-40A | 05/22/2023 | | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-40A | 10/05/2023 | | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-40A | 05/20/2024 | | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-40A | 10/02/2024 | | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-40A | 05/12/2025 | | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-40A | 10/14/2025 | | 5.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-40A | 11/12/2014 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-40A | 03/18/2015 | yes | 11.0000 | | | | | |
| Chromium, Total | ug/L | MW-40A | 05/27/2015 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-40A | 08/20/2015 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-40A | 11/18/2015 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-40A | 04/25/2016 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-40A | 06/16/2016 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-40A | 08/17/2016 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-40A | 11/16/2016 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-40A | 05/30/2017 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-40A | 11/21/2017 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-40A | 05/31/2018 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-40A | 10/31/2018 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-40A | 05/28/2019 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-40A | 10/15/2019 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-40A | 06/03/2020 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-40A | 10/07/2020 | | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-40A | 05/03/2021 | | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-40A | 11/09/2021 | | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-40A | 05/17/2022 | | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-40A | 10/17/2022 | | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-40A | 05/22/2023 | | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-40A | 10/05/2023 | | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-40A | 05/20/2024 | | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-40A | 10/02/2024 | | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-40A | 05/12/2025 | | 10.0000 | 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 | MW-40A | 10/14/2025 | | 10.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-40A | 11/12/2014 | yes | 10.0000 | ND | | | 2.8000 | *** |
| Cobalt, Total | ug/L | MW-40A | 03/18/2015 | yes | 10.0000 | ND | | | 2.8000 | *** |
| Cobalt, Total | ug/L | MW-40A | 05/27/2015 | yes | 2.8000 | ND | | | | |
| Cobalt, Total | ug/L | MW-40A | 08/20/2015 | yes | 10.0000 | ND | | | 2.8000 | *** |
| Cobalt, Total | ug/L | MW-40A | 11/18/2015 | yes | 6.4000 | ND | | | 2.8000 | *** |
| Cobalt, Total | ug/L | MW-40A | 04/25/2016 | yes | 10.0000 | ND | | | 2.8000 | *** |
| Cobalt, Total | ug/L | MW-40A | 06/16/2016 | yes | 6.4000 | ND | | | 2.8000 | *** |
| Cobalt, Total | ug/L | MW-40A | 08/17/2016 | yes | 10.0000 | ND | | | 2.8000 | *** |
| Cobalt, Total | ug/L | MW-40A | 11/16/2016 | yes | 2.8000 | ND | | | | |
| Cobalt, Total | ug/L | MW-40A | 05/30/2017 | yes | 2.8000 | ND | | | | |
| Cobalt, Total | ug/L | MW-40A | 11/21/2017 | yes | 2.8000 | ND | | | | |
| Cobalt, Total | ug/L | MW-40A | 05/31/2018 | yes | 2.8000 | ND | | | | |
| Cobalt, Total | ug/L | MW-40A | 10/31/2018 | yes | 2.8000 | ND | | | | |
| Cobalt, Total | ug/L | MW-40A | 05/28/2019 | yes | 2.1000 | ND | | | 2.8000 | *** |
| Cobalt, Total | ug/L | MW-40A | 10/15/2019 | yes | 2.1000 | ND | | | 2.8000 | *** |
| Cobalt, Total | ug/L | MW-40A | 06/03/2020 | yes | 2.0000 | ND | | | 2.8000 | *** |
| Cobalt, Total | ug/L | MW-40A | 10/07/2020 | | 2.1000 | ND | | | | |
| Cobalt, Total | ug/L | MW-40A | 05/03/2021 | | 2.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-40A | 11/09/2021 | | 2.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-40A | 05/17/2022 | | 2.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-40A | 10/17/2022 | | 2.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-40A | 05/22/2023 | | 2.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-40A | 10/05/2023 | | 2.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-40A | 05/20/2024 | | 2.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-40A | 10/02/2024 | | 2.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-40A | 05/12/2025 | | 2.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-40A | 10/14/2025 | | 2.0000 | ND | | | | |
| Copper, Total | ug/L | MW-40A | 11/12/2014 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-40A | 03/18/2015 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-40A | 05/27/2015 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-40A | 08/20/2015 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-40A | 11/18/2015 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-40A | 04/25/2016 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-40A | 06/16/2016 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-40A | 08/17/2016 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-40A | 11/16/2016 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-40A | 05/30/2017 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-40A | 11/21/2017 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-40A | 05/31/2018 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-40A | 10/31/2018 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-40A | 05/28/2019 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-40A | 10/15/2019 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-40A | 06/03/2020 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-40A | 10/07/2020 | | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-40A | 05/03/2021 | | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-40A | 11/09/2021 | | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-40A | 05/17/2022 | | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-40A | 10/17/2022 | | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-40A | 05/22/2023 | | 10.0000 | ND | | | | |

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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 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Copper, Total | ug/L | MW-40A | 10/05/2023 | | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-40A | 05/20/2024 | | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-40A | 10/02/2024 | | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-40A | 05/12/2025 | | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-40A | 10/14/2025 | | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-40A | 11/12/2014 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-40A | 03/18/2015 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-40A | 05/27/2015 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-40A | 08/20/2015 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-40A | 11/18/2015 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-40A | 04/25/2016 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-40A | 06/16/2016 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-40A | 08/17/2016 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-40A | 11/16/2016 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-40A | 05/30/2017 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-40A | 11/21/2017 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-40A | 05/31/2018 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-40A | 10/31/2018 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-40A | 05/28/2019 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-40A | 10/15/2019 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-40A | 06/03/2020 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-40A | 10/07/2020 | | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-40A | 05/03/2021 | | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-40A | 11/09/2021 | | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-40A | 05/17/2022 | | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-40A | 10/17/2022 | | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-40A | 05/22/2023 | | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-40A | 10/05/2023 | | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-40A | 05/20/2024 | | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-40A | 10/02/2024 | | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-40A | 05/12/2025 | | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-40A | 10/14/2025 | | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-40A | 11/12/2014 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-40A | 03/18/2015 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-40A | 05/27/2015 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-40A | 08/20/2015 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-40A | 11/18/2015 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-40A | 04/25/2016 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-40A | 06/16/2016 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-40A | 08/17/2016 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-40A | 11/16/2016 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-40A | 05/30/2017 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-40A | 11/21/2017 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-40A | 05/31/2018 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-40A | 10/31/2018 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-40A | 05/28/2019 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-40A | 10/15/2019 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-40A | 06/03/2020 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-40A | 10/07/2020 | | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-40A | 05/03/2021 | | 10.0000 | 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 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Nickel, Total | ug/L | MW-40A | 11/09/2021 | | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-40A | 05/17/2022 | | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-40A | 10/17/2022 | | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-40A | 05/22/2023 | | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-40A | 10/05/2023 | | 23.4000 | | | | | ** |
| Nickel, Total | ug/L | MW-40A | 05/20/2024 | | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-40A | 10/02/2024 | | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-40A | 05/12/2025 | | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-40A | 10/14/2025 | | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-40A | 11/12/2014 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-40A | 03/18/2015 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-40A | 05/27/2015 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-40A | 08/20/2015 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-40A | 11/18/2015 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-40A | 04/25/2016 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-40A | 06/16/2016 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-40A | 08/17/2016 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-40A | 11/16/2016 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-40A | 05/30/2017 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-40A | 11/21/2017 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-40A | 05/31/2018 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-40A | 10/31/2018 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-40A | 05/28/2019 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-40A | 10/15/2019 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-40A | 06/03/2020 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-40A | 10/07/2020 | | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-40A | 05/03/2021 | | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-40A | 11/09/2021 | | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-40A | 05/17/2022 | | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-40A | 10/17/2022 | | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-40A | 05/22/2023 | | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-40A | 10/05/2023 | | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-40A | 05/20/2024 | | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-40A | 10/02/2024 | | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-40A | 05/12/2025 | | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-40A | 10/14/2025 | | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-40A | 11/12/2014 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-40A | 03/18/2015 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-40A | 05/27/2015 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-40A | 08/20/2015 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-40A | 11/18/2015 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-40A | 04/25/2016 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-40A | 06/16/2016 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-40A | 08/17/2016 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-40A | 11/16/2016 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-40A | 05/30/2017 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-40A | 11/21/2017 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-40A | 05/31/2018 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-40A | 10/31/2018 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-40A | 05/28/2019 | yes | 10.0000 | 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 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Silver, Total | ug/L | MW-40A | 10/15/2019 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-40A | 06/03/2020 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-40A | 10/07/2020 | | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-40A | 05/03/2021 | | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-40A | 11/09/2021 | | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-40A | 05/17/2022 | | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-40A | 10/17/2022 | | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-40A | 05/22/2023 | | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-40A | 10/05/2023 | | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-40A | 05/20/2024 | | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-40A | 10/02/2024 | | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-40A | 05/12/2025 | | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-40A | 10/14/2025 | | 10.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-40A | 11/12/2014 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-40A | 03/18/2015 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-40A | 05/27/2015 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-40A | 08/20/2015 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-40A | 11/18/2015 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-40A | 04/25/2016 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-40A | 06/16/2016 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-40A | 08/17/2016 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-40A | 11/16/2016 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-40A | 05/30/2017 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-40A | 11/21/2017 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-40A | 05/31/2018 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-40A | 10/31/2018 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-40A | 05/28/2019 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-40A | 10/15/2019 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-40A | 06/03/2020 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-40A | 10/07/2020 | | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-40A | 05/03/2021 | | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-40A | 11/09/2021 | | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-40A | 05/17/2022 | | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-40A | 10/17/2022 | | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-40A | 05/22/2023 | | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-40A | 10/05/2023 | | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-40A | 05/20/2024 | | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-40A | 10/02/2024 | | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-40A | 05/12/2025 | | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-40A | 10/14/2025 | | 2.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-40A | 11/12/2014 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-40A | 03/18/2015 | yes | 20.0000 | | | | | |
| Vanadium, Total | ug/L | MW-40A | 05/27/2015 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-40A | 08/20/2015 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-40A | 11/18/2015 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-40A | 04/25/2016 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-40A | 06/16/2016 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-40A | 08/17/2016 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-40A | 11/16/2016 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-40A | 05/30/2017 | yes | 20.0000 | 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 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Vanadium, Total | ug/L | MW-40A | 11/21/2017 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-40A | 05/31/2018 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-40A | 10/31/2018 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-40A | 05/28/2019 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-40A | 10/15/2019 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-40A | 06/03/2020 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-40A | 10/07/2020 | | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-40A | 05/03/2021 | | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-40A | 11/09/2021 | | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-40A | 05/17/2022 | | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-40A | 10/17/2022 | | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-40A | 05/22/2023 | | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-40A | 10/05/2023 | | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-40A | 05/20/2024 | | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-40A | 10/02/2024 | | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-40A | 05/12/2025 | | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-40A | 10/14/2025 | | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-40A | 11/12/2014 | yes | 25.0000 | | | | | |
| Zinc, Total | ug/L | MW-40A | 03/18/2015 | yes | 27.0000 | | | | | |
| Zinc, Total | ug/L | MW-40A | 05/27/2015 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-40A | 08/20/2015 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-40A | 11/18/2015 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-40A | 04/25/2016 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-40A | 06/16/2016 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-40A | 08/17/2016 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-40A | 11/16/2016 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-40A | 05/30/2017 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-40A | 11/21/2017 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-40A | 05/31/2018 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-40A | 10/31/2018 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-40A | 05/28/2019 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-40A | 10/15/2019 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-40A | 06/03/2020 | yes | 50.0000 | ND | | | 20.0000 | *** |
| Zinc, Total | ug/L | MW-40A | 10/07/2020 | | 50.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-40A | 05/03/2021 | | 50.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-40A | 11/09/2021 | | 50.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-40A | 05/17/2022 | | 50.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-40A | 10/17/2022 | | 50.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-40A | 05/22/2023 | | 50.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-40A | 10/05/2023 | | 50.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-40A | 05/20/2024 | | 50.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-40A | 10/02/2024 | | 50.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-40A | 05/12/2025 | | 50.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-40A | 10/14/2025 | | 50.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-41A | 10/14/2025 | yes | 6.0000 | ND | | | | |
| Antimony, Total | ug/L | MW-41A | 11/24/2025 | yes | 6.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-41A | 10/14/2025 | yes | 10.0000 | ND | | | | |
| Arsenic, Total | ug/L | MW-41A | 11/24/2025 | yes | 10.0000 | ND | | | | |
| Barium, Total | ug/L | MW-41A | 10/14/2025 | yes | 91.2000 | | | | | |
| Barium, Total | ug/L | MW-41A | 11/24/2025 | yes | 101.0000 | | | | | |

* - 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 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Beryllium, Total | ug/L | MW-41A | 10/14/2025 | yes | 4.0000 | ND | | | | |
| Beryllium, Total | ug/L | MW-41A | 11/24/2025 | yes | 4.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-41A | 10/14/2025 | yes | 5.0000 | ND | | | | |
| Cadmium, Total | ug/L | MW-41A | 11/24/2025 | yes | 5.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-41A | 10/14/2025 | yes | 10.0000 | ND | | | | |
| Chromium, Total | ug/L | MW-41A | 11/24/2025 | yes | 10.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-41A | 10/14/2025 | yes | 2.0000 | ND | | | | |
| Cobalt, Total | ug/L | MW-41A | 11/24/2025 | yes | 2.0000 | ND | | | | |
| Copper, Total | ug/L | MW-41A | 10/14/2025 | yes | 10.0000 | ND | | | | |
| Copper, Total | ug/L | MW-41A | 11/24/2025 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-41A | 10/14/2025 | yes | 10.0000 | ND | | | | |
| Lead, Total | ug/L | MW-41A | 11/24/2025 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-41A | 10/14/2025 | yes | 10.0000 | ND | | | | |
| Nickel, Total | ug/L | MW-41A | 11/24/2025 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-41A | 10/14/2025 | yes | 10.0000 | ND | | | | |
| Selenium, Total | ug/L | MW-41A | 11/24/2025 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-41A | 10/14/2025 | yes | 10.0000 | ND | | | | |
| Silver, Total | ug/L | MW-41A | 11/24/2025 | yes | 10.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-41A | 10/14/2025 | yes | 2.0000 | ND | | | | |
| Thallium, Total | ug/L | MW-41A | 11/24/2025 | yes | 2.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-41A | 10/14/2025 | yes | 20.0000 | ND | | | | |
| Vanadium, Total | ug/L | MW-41A | 11/24/2025 | yes | 20.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-41A | 10/14/2025 | yes | 50.0000 | ND | | | | |
| Zinc, Total | ug/L | MW-41A | 11/24/2025 | yes | 50.0000 | 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 4

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

| Constituent | Units | Well | Date | Result | ND Qualifier | Date Range | N | Critical Value |
|---|---|---|---|---|---|---|---|---|
| Selenium, Total | ug/L | MW-11A | 11/18/2015 | 44.0000 | | 04/24/2008-06/03/2020 | 25 | 0.4893 |
| Copper, Total | ug/L | MW-12A | 04/27/2009 | 60.0000 | < 60.0000 | 04/24/2008-06/03/2020 | 30 | 0.4556 |
| Cobalt, Total | ug/L | MW-23A | 05/27/2015 | 2.8000 | < 2.8000 | 04/27/2009-11/18/2015 | 17 | 0.5973 |
| Cobalt, Total | ug/L | MW-23A | 11/18/2015 | 2.8000 | < 2.8000 | 04/27/2009-11/18/2015 | 17 | 0.5973 |

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.

## Worksheet 2 - Intra-Well Control Charts / Prediction Limits
## Antimony, Total (ug/L) at Holding Pond
## Nonparametric Prediction Limit

| Step | Equation | Description |
|---|---|---|
| 1 | PL = median(X)<br>= **6.0** | 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 2 - Intra-Well Control Charts / Prediction Limits
## Arsenic, Total (ug/L) at Holding Pond
## Nonparametric Prediction Limit

| Step | Equation | Description |
|---|---|---|
| 1 | PL = median(X)<br>= **10.0** | 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 2 - Intra-Well Control Charts / Prediction Limits
## Barium, Total (ug/L) at Holding Pond
## Normal Control Limit

| Step | Equation | Description |
|---|---|---|
| 1 | $\overline{X}$ = **sum[X]** / **N**<br>= **1862.7** / **15**<br>= **124.18** | Compute background mean. |
| 2 | S = ( (**sum[X$^2$]** - **sum[X]**$^2$/**N**) / (**N**-1) )$^{½}$<br>= ( (**265979.89** - **3.47**x**10**$^6$/**15**) / (**15**-1) )$^{½}$<br>= **49.764** | Compute background sd. |
| 3 | SCL = $\overline{\mathbf{X}}$ + **F** * **S**<br>= **124.18** + **6.5** * **49.764**<br>= **447.643** | Compute combined Shewhart-CUSUM normal control limit. |
| 4 | N' = **N** * (**N**-1) / 2<br>= **15** * (**15**-1) / 2<br>= **105** | Number of sample pairs during trend detection period. |
| 5 | S = **-7.217** | Sen's estimator of trend. |
| 6 | var(S) = **406.333** | Variance estimate for slope. |
| 7 | $M_1$(S) = (**N'** - **Z**$_{.99}$ * **var(S)**$^{½}$) / 2<br>= (**105** - **2.326** * **406.333**$^{½}$) / 2<br>= **29.057** | Ordinal position for one-sided lower confidence limit for slope. The LCL is the $M_1^{th}$ largest slope estimate. When $M_1$ is not an integer, interpolation is used. |
| 8 | LCL(S) = **-23.194** | One-sided lower confidence limit for slope. |

## Worksheet 2 - Intra-Well Control Charts / Prediction Limits
## Beryllium, Total (ug/L) at Holding Pond
## Nonparametric Prediction Limit

| Step | Equation | Description |
|---|---|---|
| 1 | PL = median(X)<br>= **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 2 - Intra-Well Control Charts / Prediction Limits
## Cadmium, Total (ug/L) at Holding Pond
## Nonparametric Prediction Limit

| Step | Equation | Description |
|---|---|---|
| 1 | PL = median(X)<br>= **5.0** | Compute nonparametric prediction limit as median reporting limit in background. |
| 2 | Conf = **0.99** | Confidence level is based on N, K and resampling strategy (see Gibbons 1994). |

## Worksheet 2 - Intra-Well Control Charts / Prediction Limits
## Chromium, Total (ug/L) at Holding Pond
## Nonparametric Prediction Limit

| Step | Equation | Description |
|---|---|---|
| 1 | PL = median(X)<br>= **10.0** | 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 2 - Intra-Well Control Charts / Prediction Limits
## Cobalt, Total (ug/L) at Holding Pond
## Nonparametric Prediction Limit

| Step | Equation | Description |
|---|---|---|
| 1 | PL = median(X)<br>= **2.8** | 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 2 - Intra-Well Control Charts / Prediction Limits
## Copper, Total (ug/L) at Holding Pond
## Nonparametric Prediction Limit

| Step | Equation | Description |
|---|---|---|
| 1 | PL = median(X)<br>= **10.0** | 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 2 - Intra-Well Control Charts / Prediction Limits
## Lead, Total (ug/L) at Holding Pond
## Nonparametric Prediction Limit

| Step | Equation | Description |
|---|---|---|
| 1 | PL = median(X)<br>= **10.0** | 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 2 - Intra-Well Control Charts / Prediction Limits
## Nickel, Total (ug/L) at Holding Pond
## Nonparametric Prediction Limit

| Step | Equation | Description |
|---|---|---|
| 1 | PL = max(X)<br>= **13.7** | 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 2 - Intra-Well Control Charts / Prediction Limits
## Selenium, Total (ug/L) at Holding Pond
## Nonparametric Prediction Limit

| Step | Equation | Description |
|---|---|---|
| 1 | PL = median(X)<br>= **10.0** | 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 2 - Intra-Well Control Charts / Prediction Limits
## Silver, Total (ug/L) at Holding Pond
## Nonparametric Prediction Limit

| Step | Equation | Description |
|---|---|---|
| 1 | PL = median(X)<br>= **10.0** | 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 2 - Intra-Well Control Charts / Prediction Limits
## Thallium, Total (ug/L) at Holding Pond
## Nonparametric Prediction Limit

| Step | Equation | Description |
|---|---|---|
| 1 | PL = median(X)<br>= **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 2 - Intra-Well Control Charts / Prediction Limits
## Vanadium, Total (ug/L) at Holding Pond
## Nonparametric Prediction Limit

| Step | Equation | Description |
|---|---|---|
| 1 | PL = median(X)<br>= **20.0** | 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 2 - Intra-Well Control Charts / Prediction Limits
## Zinc, Total (ug/L) at Holding Pond
## Nonparametric Prediction Limit

| Step | Equation | Description |
|---|---|---|
| 1 | PL = median(X)<br>= **20.0** | 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 2 - Intra-Well Control Charts / Prediction Limits
## Antimony, Total (ug/L) at MW-11A
## Nonparametric Prediction Limit

| Step | Equation | Description |
|---|---|---|
| 1 | PL = median(X)<br>= **6.0** | 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 2 - Intra-Well Control Charts / Prediction Limits
## Arsenic, Total (ug/L) at MW-11A
## Nonparametric Prediction Limit

| Step | Equation | Description |
|---|---|---|
| 1 | PL = median(X)<br>= **10.0** | 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 2 - Intra-Well Control Charts / Prediction Limits
## Barium, Total (ug/L) at MW-11A
## Normal Control Limit

| Step | Equation | Description |
|---|---|---|
| 1 | $\overline{X}$ = **sum[X]** / **N**<br>= **5508.0** / **26**<br>= **211.846** | Compute background mean. |
| 2 | S = ( (**sum[X$^2$]** - **sum[X]**$^2$/**N**) / (**N**-1) )$^{½}$<br>= ( (**1.22**x**10$^6$** - **3.03**x**10$^7$**/**26**) / (**26**-1) )$^{½}$<br>= **43.962** | Compute background sd. |
| 3 | SCL = $\overline{\mathbf{X}}$ + **F** * **S**<br>= **211.846** + **6.5** * **43.962**<br>= **497.596** | Compute combined Shewhart-CUSUM normal control limit. |
| 4 | N' = **N** * (**N**-1) / 2<br>= **26** * (**26**-1) / 2<br>= **325** | Number of sample pairs during trend detection period. |
| 5 | S = **3.261** | Sen's estimator of trend. |
| 6 | var(S) = **2029.333** | Variance estimate for slope. |
| 7 | $M_1$(S) = (**N'** - **Z**$_{.99}$ * **var(S)**$^{½}$) / 2<br>= (**325** - **2.326** * **2029.333**$^{½}$) / 2<br>= **110.109** | Ordinal position for one-sided lower confidence limit for slope. The LCL is the $M_1^{th}$ largest slope estimate. When $M_1$ is not an integer, interpolation is used. |
| 8 | LCL(S) = **0.0** | One-sided lower confidence limit for slope. |

## Worksheet 2 - Intra-Well Control Charts / Prediction Limits
## Beryllium, Total (ug/L) at MW-11A
## Nonparametric Prediction Limit

| Step | Equation | Description |
|---|---|---|
| 1 | PL = median(X)<br>= **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 2 - Intra-Well Control Charts / Prediction Limits
## Cadmium, Total (ug/L) at MW-11A
## Nonparametric Prediction Limit

| Step | Equation | Description |
|---|---|---|
| 1 | PL = median(X)<br>= **5.0** | Compute nonparametric prediction limit as median reporting limit in background. |
| 2 | Conf = **0.99** | Confidence level is based on N, K and resampling strategy (see Gibbons 1994). |

## Worksheet 2 - Intra-Well Control Charts / Prediction Limits
## Chromium, Total (ug/L) at MW-11A
## Nonparametric Prediction Limit

| Step | Equation | Description |
|---|---|---|
| 1 | PL = max(X)<br>= **13.0** | 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 2 - Intra-Well Control Charts / Prediction Limits
## Cobalt, Total (ug/L) at MW-11A
## Nonparametric Prediction Limit

| Step | Equation | Description |
|---|---|---|
| 1 | PL = max(X)<br>= **11.0** | 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 2 - Intra-Well Control Charts / Prediction Limits
## Copper, Total (ug/L) at MW-11A
## Nonparametric Prediction Limit

| Step | Equation | Description |
|---|---|---|
| 1 | PL = max(X)<br>= **15.0** | 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 2 - Intra-Well Control Charts / Prediction Limits
## Lead, Total (ug/L) at MW-11A
## Nonparametric Prediction Limit

| Step | Equation | Description |
|---|---|---|
| 1 | PL = median(X)<br>= **10.0** | 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 2 - Intra-Well Control Charts / Prediction Limits
## Nickel, Total (ug/L) at MW-11A
## Nonparametric Prediction Limit

| Step | Equation | Description |
|---|---|---|
| 1 | PL = max(X)<br>= **13.0** | 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 2 - Intra-Well Control Charts / Prediction Limits
## Selenium, Total (ug/L) at MW-11A
## Nonparametric Prediction Limit

| Step | Equation | Description |
|---|---|---|
| 1 | PL = max(X)<br>= **25.0** | 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 2 - Intra-Well Control Charts / Prediction Limits
## Silver, Total (ug/L) at MW-11A
## Nonparametric Prediction Limit

| Step | Equation | Description |
|---|---|---|
| 1 | PL = median(X)<br>= **10.0** | 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 2 - Intra-Well Control Charts / Prediction Limits
## Thallium, Total (ug/L) at MW-11A
## Nonparametric Prediction Limit

| Step | Equation | Description |
|---|---|---|
| 1 | PL = median(X)<br>= **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 2 - Intra-Well Control Charts / Prediction Limits
## Vanadium, Total (ug/L) at MW-11A
## Nonparametric Prediction Limit

| Step | Equation | Description |
|---|---|---|
| 1 | PL = max(X)<br>= **33.0** | 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 2 - Intra-Well Control Charts / Prediction Limits
## Zinc, Total (ug/L) at MW-11A
## Nonparametric Prediction Limit

| Step | Equation | Description |
|---|---|---|
| 1 | PL = max(X)<br>= **34.0** | 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 2 - Intra-Well Control Charts / Prediction Limits
## Antimony, Total (ug/L) at MW-12A
## Nonparametric Prediction Limit

| Step | Equation | Description |
|---|---|---|
| 1 | PL = median(X)<br>= **6.0** | 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 2 - Intra-Well Control Charts / Prediction Limits
## Arsenic, Total (ug/L) at MW-12A
## Nonparametric Prediction Limit

| Step | Equation | Description |
|---|---|---|
| 1 | PL = median(X)<br>= **10.0** | 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 2 - Intra-Well Control Charts / Prediction Limits
## Barium, Total (ug/L) at MW-12A
## Normal Control Limit

| Step | Equation | Description |
|---|---|---|
| 1 | $\overline{X}$ = **sum[X]** / **N**<br>= **6806.5** / **30**<br>= **226.883** | Compute background mean. |
| 2 | S = ( ( (**sum[X$^2$]** - **sum[X]**$^2$/**N**) / (**N**-1) )$^{½}$<br>= ( ( (**1.56**x**10$^6$** - **4.63**x**10$^7$**/**30**) / (**30**-1) )$^{½}$<br>= **23.869** | Compute background sd. |
| 3 | SCL = $\overline{\mathbf{X}}$ + **F** * **S**<br>= **226.883** + **6.5** * **23.869**<br>= **382.03** | Compute combined Shewhart-CUSUM normal control limit. |
| 4 | N' = **N** * (**N**-1) / 2<br>= **30** * (**30**-1) / 2<br>= **435** | Number of sample pairs during trend detection period. |
| 5 | S = **3.248** | Sen's estimator of trend. |
| 6 | var(S) = **3100.0** | Variance estimate for slope. |
| 7 | $M_1$(S) = (**N'** - **Z**$_{.99}$ * **var(S)**$^{½}$) / 2<br>= (**435** - **2.326** * **3100.0**$^{½}$) / 2<br>= **152.747** | Ordinal position for one-sided lower confidence limit for slope. The LCL is the $M_1^{th}$ largest slope estimate. When $M_1$ is not an integer, interpolation is used. |
| 8 | LCL(S) = **1.044** | One-sided lower confidence limit for slope. |
| 9 | LCL(S) > 0 | **Significant increasing trend.** |

## Worksheet 2 - Intra-Well Control Charts / Prediction Limits
## Beryllium, Total (ug/L) at MW-12A
## Nonparametric Prediction Limit

| Step | Equation | Description |
|---|---|---|
| 1 | PL = median(X)<br>= **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 2 - Intra-Well Control Charts / Prediction Limits
## Cadmium, Total (ug/L) at MW-12A
## Nonparametric Prediction Limit

| Step | Equation | Description |
|---|---|---|
| 1 | PL = median(X)<br>= **5.0** | Compute nonparametric prediction limit as median reporting limit in background. |
| 2 | Conf = **0.99** | Confidence level is based on N, K and resampling strategy (see Gibbons 1994). |

## Worksheet 2 - Intra-Well Control Charts / Prediction Limits
## Chromium, Total (ug/L) at MW-12A
## Nonparametric Prediction Limit

| Step | Equation | Description |
|---|---|---|
| 1 | PL = median(X)<br>= **10.0** | 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 2 - Intra-Well Control Charts / Prediction Limits
## Cobalt, Total (ug/L) at MW-12A
## Nonparametric Prediction Limit

| Step | Equation | Description |
|---|---|---|
| 1 | PL = median(X)<br>= **10.0** | 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 2 - Intra-Well Control Charts / Prediction Limits
## Copper, Total (ug/L) at MW-12A
## Nonparametric Prediction Limit

| Step | Equation | Description |
|---|---|---|
| 1 | PL = max(X)<br>= **10.0** | 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 2 - Intra-Well Control Charts / Prediction Limits
## Lead, Total (ug/L) at MW-12A
## Nonparametric Prediction Limit

| Step | Equation | Description |
|---|---|---|
| 1 | PL = median(X)<br>= **10.0** | 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 2 - Intra-Well Control Charts / Prediction Limits
## Nickel, Total (ug/L) at MW-12A
## Nonparametric Prediction Limit

| Step | Equation | Description |
|---|---|---|
| 1 | PL = max(X)<br>= **11.0** | 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 2 - Intra-Well Control Charts / Prediction Limits
## Selenium, Total (ug/L) at MW-12A
## Nonparametric Prediction Limit

| Step | Equation | Description |
|---|---|---|
| 1 | PL = median(X)<br>= **10.0** | 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 2 - Intra-Well Control Charts / Prediction Limits
## Silver, Total (ug/L) at MW-12A
## Nonparametric Prediction Limit

| Step | Equation | Description |
|---|---|---|
| 1 | PL = median(X)<br>= **10.0** | 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 2 - Intra-Well Control Charts / Prediction Limits
## Thallium, Total (ug/L) at MW-12A
## Nonparametric Prediction Limit

| Step | Equation | Description |
|---|---|---|
| 1 | PL = median(X)<br>= **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 2 - Intra-Well Control Charts / Prediction Limits
## Vanadium, Total (ug/L) at MW-12A
## Nonparametric Prediction Limit

| Step | Equation | Description |
|---|---|---|
| 1 | PL = median(X)<br>= **20.0** | 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 2 - Intra-Well Control Charts / Prediction Limits
## Zinc, Total (ug/L) at MW-12A
## Nonparametric Prediction Limit

| Step | Equation | Description |
|---|---|---|
| 1 | PL = median(X)<br>= **20.0** | 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 2 - Intra-Well Control Charts / Prediction Limits
## Antimony, Total (ug/L) at MW-13A
## Nonparametric Prediction Limit

| Step | Equation | Description |
|---|---|---|
| 1 | PL = median(X)<br>= **6.0** | 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 2 - Intra-Well Control Charts / Prediction Limits
## Arsenic, Total (ug/L) at MW-13A
## Nonparametric Prediction Limit

| Step | Equation | Description |
|---|---|---|
| 1 | PL = median(X)<br>= **10.0** | 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 2 - Intra-Well Control Charts / Prediction Limits
## Barium, Total (ug/L) at MW-13A
## Normal Control Limit

| Step | Equation | Description |
|---|---|---|
| 1 | $\overline{X}$ = **sum[X]** / **N**<br>= **6662.0** / **29**<br>= **229.724** | Compute background mean. |
| 2 | S = ( (**sum[X$^2$]** - **sum[X]**$^2$/**N**) / (**N**-1) )$^{½}$<br>= ( (**1.62**x**10$^6$** - **4.44**x**10$^7$**/**29**) / (**29**-1) )$^{½}$<br>= **56.16** | Compute background sd. |
| 3 | SCL = $\overline{\mathbf{X}}$ + **F** * **S**<br>= **229.724** + **6.5** * **56.16**<br>= **594.767** | Compute combined Shewhart-CUSUM normal control limit. |
| 4 | N' = **N** * (**N**-1) / 2<br>= **29** * (**29**-1) / 2<br>= **406** | Number of sample pairs during trend detection period. |
| 5 | S = **13.071** | Sen's estimator of trend. |
| 6 | var(S) = **2830.667** | Variance estimate for slope. |
| 7 | $M_1$(S) = (**N'** - **Z**$_{.99}$ * **var(S)**$^{½}$) / 2<br>= (**406** - **2.326** * **2830.667**$^{½}$) / 2<br>= **141.124** | Ordinal position for one-sided lower confidence limit for slope. The LCL is the $M_1^{th}$ largest slope estimate. When $M_1$ is not an integer, interpolation is used. |
| 8 | LCL(S) = **9.648** | One-sided lower confidence limit for slope. |
| 9 | LCL(S) > 0 | **Significant increasing trend.** |

## Worksheet 2 - Intra-Well Control Charts / Prediction Limits
## Beryllium, Total (ug/L) at MW-13A
## Nonparametric Prediction Limit

| Step | Equation | Description |
|---|---|---|
| 1 | PL = median(X)<br>= **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 2 - Intra-Well Control Charts / Prediction Limits
## Cadmium, Total (ug/L) at MW-13A
## Nonparametric Prediction Limit

| Step | Equation | Description |
|---|---|---|
| 1 | PL = median(X)<br>= **5.0** | Compute nonparametric prediction limit as median reporting limit in background. |
| 2 | Conf = **0.99** | Confidence level is based on N, K and resampling strategy (see Gibbons 1994). |

## Worksheet 2 - Intra-Well Control Charts / Prediction Limits
## Chromium, Total (ug/L) at MW-13A
## Nonparametric Prediction Limit

| Step | Equation | Description |
|---|---|---|
| 1 | PL = median(X)<br>= **10.0** | 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 2 - Intra-Well Control Charts / Prediction Limits
## Cobalt, Total (ug/L) at MW-13A
## Nonparametric Prediction Limit

| Step | Equation | Description |
|---|---|---|
| 1 | PL = median(X)<br>= **10.0** | 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 2 - Intra-Well Control Charts / Prediction Limits
## Copper, Total (ug/L) at MW-13A
## Nonparametric Prediction Limit

| Step | Equation | Description |
|---|---|---|
| 1 | PL = median(X)<br>= **10.0** | 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 2 - Intra-Well Control Charts / Prediction Limits
## Lead, Total (ug/L) at MW-13A
## Nonparametric Prediction Limit

| Step | Equation | Description |
|---|---|---|
| 1 | PL = median(X)<br>= **10.0** | 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 2 - Intra-Well Control Charts / Prediction Limits
## Nickel, Total (ug/L) at MW-13A
## Nonparametric Prediction Limit

| Step | Equation | Description |
|---|---|---|
| 1 | PL = median(X)<br>= **10.0** | 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 2 - Intra-Well Control Charts / Prediction Limits
## Selenium, Total (ug/L) at MW-13A
## Nonparametric Prediction Limit

| Step | Equation | Description |
|---|---|---|
| 1 | PL = median(X)<br>= **10.0** | 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 2 - Intra-Well Control Charts / Prediction Limits
## Silver, Total (ug/L) at MW-13A
## Nonparametric Prediction Limit

| Step | Equation | Description |
|---|---|---|
| 1 | PL = median(X)<br>= **10.0** | 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 2 - Intra-Well Control Charts / Prediction Limits
## Thallium, Total (ug/L) at MW-13A
## Nonparametric Prediction Limit

| Step | Equation | Description |
|---|---|---|
| 1 | PL = median(X)<br>= **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 2 - Intra-Well Control Charts / Prediction Limits
## Vanadium, Total (ug/L) at MW-13A
## Nonparametric Prediction Limit

| Step | Equation | Description |
|---|---|---|
| 1 | PL = median(X)<br>= **20.0** | 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 2 - Intra-Well Control Charts / Prediction Limits
## Zinc, Total (ug/L) at MW-13A
## Nonparametric Prediction Limit

| Step | Equation | Description |
|---|---|---|
| 1 | PL = median(X)<br>= **20.0** | 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 2 - Intra-Well Control Charts / Prediction Limits
## Antimony, Total (ug/L) at MW-19A
## Nonparametric Prediction Limit

| Step | Equation | Description |
|---|---|---|
| 1 | PL = median(X)<br>= **6.0** | 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 2 - Intra-Well Control Charts / Prediction Limits
## Arsenic, Total (ug/L) at MW-19A
## Nonparametric Prediction Limit

| Step | Equation | Description |
|---|---|---|
| 1 | PL = median(X)<br>= **10.0** | 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 2 - Intra-Well Control Charts / Prediction Limits
## Barium, Total (ug/L) at MW-19A
## Normal Control Limit

| Step | Equation | Description |
|---|---|---|
| 1 | $\overline{X}$ = **sum[X]** / **N**<br>= **4554.0** / **30**<br>= **151.8** | Compute background mean. |
| 2 | S = ( (**sum[X$^2$]** - **sum[X]**$^2$/**N**) / (**N**-1) )$^{½}$<br>= ( (**705216.0** - **2.07**x**10$^7$**/**30**) / (**30**-1) )$^{½}$<br>= **21.908** | Compute background sd. |
| 3 | SCL = $\overline{\mathbf{X}}$ + **F** * **S**<br>= **151.8** + **6.5** * **21.908**<br>= **294.202** | Compute combined Shewhart-CUSUM normal control limit. |
| 4 | N' = **N** * (**N**-1) / 2<br>= **30** * (**30**-1) / 2<br>= **435** | Number of sample pairs during trend detection period. |
| 5 | S = **0.937** | Sen's estimator of trend. |
| 6 | var(S) = **3064.333** | Variance estimate for slope. |
| 7 | $M_1$(S) = (**N'** - **Z**$_{.99}$ * **var(S)**$^{½}$) / 2<br>= (**435** - **2.326** * **3064.333**$^{½}$) / 2<br>= **153.12** | Ordinal position for one-sided lower confidence limit for slope. The LCL is the $M_1^{th}$ largest slope estimate. When $M_1$ is not an integer, interpolation is used. |
| 8 | LCL(S) = **-1.304** | One-sided lower confidence limit for slope. |

## Worksheet 2 - Intra-Well Control Charts / Prediction Limits
## Beryllium, Total (ug/L) at MW-19A
## Nonparametric Prediction Limit

| Step | Equation | Description |
|---|---|---|
| 1 | PL = median(X)<br>= **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 2 - Intra-Well Control Charts / Prediction Limits
## Cadmium, Total (ug/L) at MW-19A
## Nonparametric Prediction Limit

| Step | Equation | Description |
|---|---|---|
| 1 | PL = median(X)<br>= **5.0** | Compute nonparametric prediction limit as median reporting limit in background. |
| 2 | Conf = **0.99** | Confidence level is based on N, K and resampling strategy (see Gibbons 1994). |

## Worksheet 2 - Intra-Well Control Charts / Prediction Limits
## Chromium, Total (ug/L) at MW-19A
## Nonparametric Prediction Limit

| Step | Equation | Description |
|---|---|---|
| 1 | PL = median(X)<br>= **10.0** | 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 2 - Intra-Well Control Charts / Prediction Limits
## Cobalt, Total (ug/L) at MW-19A
## Nonparametric Prediction Limit

| Step | Equation | Description |
|---|---|---|
| 1 | PL = median(X)<br>= **10.0** | 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 2 - Intra-Well Control Charts / Prediction Limits
## Copper, Total (ug/L) at MW-19A
## Nonparametric Prediction Limit

| Step | Equation | Description |
|---|---|---|
| 1 | PL = max(X)<br>= **10.0** | 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 2 - Intra-Well Control Charts / Prediction Limits
## Lead, Total (ug/L) at MW-19A
## Nonparametric Prediction Limit

| Step | Equation | Description |
|---|---|---|
| 1 | PL = median(X)<br>= **10.0** | 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 2 - Intra-Well Control Charts / Prediction Limits
## Nickel, Total (ug/L) at MW-19A
## Normal Control Limit

| Step | Equation | Description |
|---|---|---|
| 1 | $\overline{X}$ = **sum[X]** / **N**<br>= **428.8** / **30**<br>= **14.293** | Compute background mean. |
| 2 | S = ( (**sum[X$^2$]** - **sum[X]**$^2$/**N**) / (**N**-1) )$^{½}$<br>= ( (**6420.3** - **183869.44/30**) / (**30**-1) )$^{½}$<br>= **3.169** | Compute background sd. |
| 3 | SCL = $\overline{\mathbf{X}}$ + **F** * **S**<br>= **14.293** + **6.5** * **3.169**<br>= **34.895** | Compute combined Shewhart-CUSUM normal control limit. |
| 4 | N' = **N** * (**N**-1) / 2<br>= **30** * (**30**-1) / 2<br>= **435** | Number of sample pairs during trend detection period. |
| 5 | S = **0.181** | Sen's estimator of trend. |
| 6 | var(S) = **3111.333** | Variance estimate for slope. |
| 7 | $M_1$(S) = (**N'** - **Z**$_{.99}$ * **var(S)**$^{½}$) / 2<br>= (**435** - **2.326** * **3111.333**$^{½}$) / 2<br>= **152.629** | Ordinal position for one-sided lower confidence limit for slope. The LCL is the $M_1^{th}$ largest slope estimate. When $M_1$ is not an integer, interpolation is used. |
| 8 | LCL(S) = **-0.151** | One-sided lower confidence limit for slope. |

## Worksheet 2 - Intra-Well Control Charts / Prediction Limits
## Selenium, Total (ug/L) at MW-19A
## Nonparametric Prediction Limit

| Step | Equation | Description |
|---|---|---|
| 1 | PL = median(X)<br>= **10.0** | 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 2 - Intra-Well Control Charts / Prediction Limits
## Silver, Total (ug/L) at MW-19A
## Nonparametric Prediction Limit

| Step | Equation | Description |
|---|---|---|
| 1 | PL = median(X)<br>= **10.0** | 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 2 - Intra-Well Control Charts / Prediction Limits
## Thallium, Total (ug/L) at MW-19A
## Nonparametric Prediction Limit

| Step | Equation | Description |
|---|---|---|
| 1 | PL = median(X)<br>= **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 2 - Intra-Well Control Charts / Prediction Limits
## Vanadium, Total (ug/L) at MW-19A
## Nonparametric Prediction Limit

| Step | Equation | Description |
|---|---|---|
| 1 | PL = max(X)<br>= **22.0** | 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 2 - Intra-Well Control Charts / Prediction Limits
## Zinc, Total (ug/L) at MW-19A
## Nonparametric Prediction Limit

| Step | Equation | Description |
|---|---|---|
| 1 | PL = median(X)<br>= **20.0** | 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 2 - Intra-Well Control Charts / Prediction Limits
## Antimony, Total (ug/L) at MW-21A
## Nonparametric Prediction Limit

| Step | Equation | Description |
|---|---|---|
| 1 | PL = median(X)<br>= **6.0** | 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 2 - Intra-Well Control Charts / Prediction Limits
## Arsenic, Total (ug/L) at MW-21A
## Nonparametric Prediction Limit

| Step | Equation | Description |
|---|---|---|
| 1 | PL = median(X)<br>= **10.0** | 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 2 - Intra-Well Control Charts / Prediction Limits
## Barium, Total (ug/L) at MW-21A
## Normal Control Limit

| Step | Equation | Description |
|---|---|---|
| 1 | $\overline{X}$ = **sum[X]** / **N**<br>= **6926.0** / **29**<br>= **238.828** | Compute background mean. |
| 2 | S = ( ( (**sum[X$^2$]** - **sum[X]**$^2$/**N**) / (**N**-1) )$^{½}$<br>= ( ( (**1.69**x**10$^6$** - **4.80**x**10$^7$**/**29**) / (**29**-1) )$^{½}$<br>= **33.802** | Compute background sd. |
| 3 | SCL = $\overline{\mathbf{X}}$ + **F** * **S**<br>= **238.828** + **6.5** * **33.802**<br>= **458.541** | Compute combined Shewhart-CUSUM normal control limit. |
| 4 | N' = **N** * (**N**-1) / 2<br>= **29** * (**29**-1) / 2<br>= **406** | Number of sample pairs during trend detection period. |
| 5 | S = **6.515** | Sen's estimator of trend. |
| 6 | var(S) = **2803.0** | Variance estimate for slope. |
| 7 | $M_1$(S) = (**N'** - **Z**$_{.99}$ * **var(S)**$^{½}$) / 2<br>= (**406** - **2.326** * **2803.0**$^{½}$) / 2<br>= **141.427** | Ordinal position for one-sided lower confidence limit for slope. The LCL is the $M_1^{th}$ largest slope estimate. When $M_1$ is not an integer, interpolation is used. |
| 8 | LCL(S) = **2.617** | One-sided lower confidence limit for slope. |
| 9 | LCL(S) > 0 | **Significant increasing trend.** |

## Worksheet 2 - Intra-Well Control Charts / Prediction Limits
## Beryllium, Total (ug/L) at MW-21A
## Nonparametric Prediction Limit

| Step | Equation | Description |
|---|---|---|
| 1 | PL = median(X)<br>= **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 2 - Intra-Well Control Charts / Prediction Limits
## Cadmium, Total (ug/L) at MW-21A
## Nonparametric Prediction Limit

| Step | Equation | Description |
|---|---|---|
| 1 | PL = median(X)<br>= **5.0** | Compute nonparametric prediction limit as median reporting limit in background. |
| 2 | Conf = **0.99** | Confidence level is based on N, K and resampling strategy (see Gibbons 1994). |

## Worksheet 2 - Intra-Well Control Charts / Prediction Limits
## Chromium, Total (ug/L) at MW-21A
## Nonparametric Prediction Limit

| Step | Equation | Description |
|---|---|---|
| 1 | PL = median(X)<br>= **10.0** | 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 2 - Intra-Well Control Charts / Prediction Limits
## Cobalt, Total (ug/L) at MW-21A
## Nonparametric Prediction Limit

| Step | Equation | Description |
|---|---|---|
| 1 | PL = median(X)<br>= **10.0** | 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 2 - Intra-Well Control Charts / Prediction Limits
## Copper, Total (ug/L) at MW-21A
## Nonparametric Prediction Limit

| Step | Equation | Description |
|---|---|---|
| 1 | PL = median(X)<br>= **10.0** | 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 2 - Intra-Well Control Charts / Prediction Limits
## Lead, Total (ug/L) at MW-21A
## Nonparametric Prediction Limit

| Step | Equation | Description |
|---|---|---|
| 1 | PL = median(X)<br>= **10.0** | 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 2 - Intra-Well Control Charts / Prediction Limits
## Nickel, Total (ug/L) at MW-21A
## Nonparametric Prediction Limit

| Step | Equation | Description |
|---|---|---|
| 1 | PL = median(X)<br>= **10.0** | 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 2 - Intra-Well Control Charts / Prediction Limits
## Selenium, Total (ug/L) at MW-21A
## Nonparametric Prediction Limit

| Step | Equation | Description |
|---|---|---|
| 1 | PL = median(X)<br>= **10.0** | 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 2 - Intra-Well Control Charts / Prediction Limits
## Silver, Total (ug/L) at MW-21A
## Nonparametric Prediction Limit

| Step | Equation | Description |
|---|---|---|
| 1 | PL = median(X)<br>= **10.0** | 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 2 - Intra-Well Control Charts / Prediction Limits
## Thallium, Total (ug/L) at MW-21A
## Nonparametric Prediction Limit

| Step | Equation | Description |
|---|---|---|
| 1 | PL = median(X)<br>= **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 2 - Intra-Well Control Charts / Prediction Limits
## Vanadium, Total (ug/L) at MW-21A
## Nonparametric Prediction Limit

| Step | Equation | Description |
|---|---|---|
| 1 | PL = median(X)<br>= **20.0** | 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 2 - Intra-Well Control Charts / Prediction Limits
## Zinc, Total (ug/L) at MW-21A
## Nonparametric Prediction Limit

| Step | Equation | Description |
|---|---|---|
| 1 | PL = median(X)<br>= **20.0** | 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 2 - Intra-Well Control Charts / Prediction Limits
## Antimony, Total (ug/L) at MW-23A
## Nonparametric Prediction Limit

| Step | Equation | Description |
|---|---|---|
| 1 | PL = median(X)<br>= **6.0** | 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 2 - Intra-Well Control Charts / Prediction Limits
## Arsenic, Total (ug/L) at MW-23A
## Nonparametric Prediction Limit

| Step | Equation | Description |
|---|---|---|
| 1 | PL = median(X)<br>= **10.0** | 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 2 - Intra-Well Control Charts / Prediction Limits
## Barium, Total (ug/L) at MW-23A
## Normal Control Limit

| Step | Equation | Description |
|---|---|---|
| 1 | $\overline{X}$ = **sum[X]** / **N**<br>= **2768.0** / **17**<br>= **162.824** | Compute background mean. |
| 2 | S = ( (**sum[X$^2$]** - **sum[X]**$^2$/**N**) / (**N**-1) )$^{½}$<br>= ( (**475168.0** - **7.66**x**10$^6$**/**17**) / (**17**-1) )$^{½}$<br>= **39.109** | Compute background sd. |
| 3 | SCL = $\overline{\mathbf{X}}$ + **F** * **S**<br>= **162.824** + **6.5** * **39.109**<br>= **417.033** | Compute combined Shewhart-CUSUM normal control limit. |
| 4 | N' = **N** * (**N**-1) / 2<br>= **17** * (**17**-1) / 2<br>= **136** | Number of sample pairs during trend detection period. |
| 5 | S = **15.66** | Sen's estimator of trend. |
| 6 | var(S) = **587.333** | Variance estimate for slope. |
| 7 | $M_1$(S) = (**N'** - **Z**$_{.99}$ * **var(S)**$^{½}$) / 2<br>= (**136** - **2.326** * **587.333**$^{½}$) / 2<br>= **39.815** | Ordinal position for one-sided lower confidence limit for slope. The LCL is the $M_1^{th}$ largest slope estimate. When $M_1$ is not an integer, interpolation is used. |
| 8 | LCL(S) = **5.819** | One-sided lower confidence limit for slope. |
| 9 | LCL(S) > 0 | **Significant increasing trend.** |

## Worksheet 2 - Intra-Well Control Charts / Prediction Limits
## Beryllium, Total (ug/L) at MW-23A
## Nonparametric Prediction Limit

| Step | Equation | Description |
|---|---|---|
| 1 | PL = median(X)<br>= **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 2 - Intra-Well Control Charts / Prediction Limits
## Cadmium, Total (ug/L) at MW-23A
## Nonparametric Prediction Limit

| Step | Equation | Description |
|---|---|---|
| 1 | PL = median(X)<br>= **5.0** | Compute nonparametric prediction limit as median reporting limit in background. |
| 2 | Conf = **0.99** | Confidence level is based on N, K and resampling strategy (see Gibbons 1994). |

## Worksheet 2 - Intra-Well Control Charts / Prediction Limits
## Chromium, Total (ug/L) at MW-23A
## Nonparametric Prediction Limit

| Step | Equation | Description |
|---|---|---|
| 1 | PL = median(X)<br>= **10.0** | 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 2 - Intra-Well Control Charts / Prediction Limits
## Cobalt, Total (ug/L) at MW-23A
## Nonparametric Prediction Limit

| Step | Equation | Description |
|---|---|---|
| 1 | PL = median(X)<br>= **10.0** | 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 2 - Intra-Well Control Charts / Prediction Limits
## Copper, Total (ug/L) at MW-23A
## Nonparametric Prediction Limit

| Step | Equation | Description |
|---|---|---|
| 1 | PL = median(X)<br>= **10.0** | 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 2 - Intra-Well Control Charts / Prediction Limits
## Lead, Total (ug/L) at MW-23A
## Nonparametric Prediction Limit

| Step | Equation | Description |
|---|---|---|
| 1 | PL = max(X)<br>= **10.0** | 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 2 - Intra-Well Control Charts / Prediction Limits
## Nickel, Total (ug/L) at MW-23A
## Nonparametric Prediction Limit

| Step | Equation | Description |
|---|---|---|
| 1 | PL = median(X)<br>= **10.0** | 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 2 - Intra-Well Control Charts / Prediction Limits
## Selenium, Total (ug/L) at MW-23A
## Nonparametric Prediction Limit

| Step | Equation | Description |
|---|---|---|
| 1 | PL = median(X)<br>= **10.0** | 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 2 - Intra-Well Control Charts / Prediction Limits
## Silver, Total (ug/L) at MW-23A
## Nonparametric Prediction Limit

| Step | Equation | Description |
|---|---|---|
| 1 | PL = median(X)<br>= **10.0** | 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 2 - Intra-Well Control Charts / Prediction Limits
## Thallium, Total (ug/L) at MW-23A
## Nonparametric Prediction Limit

| Step | Equation | Description |
|---|---|---|
| 1 | PL = median(X)<br>= **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 2 - Intra-Well Control Charts / Prediction Limits
## Vanadium, Total (ug/L) at MW-23A
## Nonparametric Prediction Limit

| Step | Equation | Description |
|---|---|---|
| 1 | PL = median(X)<br>= **20.0** | 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 2 - Intra-Well Control Charts / Prediction Limits
## Zinc, Total (ug/L) at MW-23A
## Nonparametric Prediction Limit

| Step | Equation | Description |
|---|---|---|
| 1 | PL = median(X)<br>= **20.0** | 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 2 - Intra-Well Control Charts / Prediction Limits
## Antimony, Total (ug/L) at MW-34A
## Nonparametric Prediction Limit

| Step | Equation | Description |
|---|---|---|
| 1 | PL = median(X)<br>= **6.0** | 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 2 - Intra-Well Control Charts / Prediction Limits
## Arsenic, Total (ug/L) at MW-34A
## Nonparametric Prediction Limit

| Step | Equation | Description |
|---|---|---|
| 1 | PL = median(X)<br>= **10.0** | 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 2 - Intra-Well Control Charts / Prediction Limits
## Barium, Total (ug/L) at MW-34A
## Normal Control Limit

| Step | Equation | Description |
|---|---|---|
| 1 | $\overline{X}$ = **sum[X]** / **N**<br>= **2023.6** / **27**<br>= **74.948** | Compute background mean. |
| 2 | S = ( (**sum[X$^2$]** - **sum[X]**$^2$/**N**) / (**N**-1) )$^{½}$<br>= ( (**303118.94** - **4.09**x**10**$^6$/**27**) / (**27**-1) )$^{½}$<br>= **76.323** | Compute background sd. |
| 3 | SCL = $\overline{\mathbf{X}}$ + **F** * **S**<br>= **74.948** + **6.5** * **76.323**<br>= **571.045** | Compute combined Shewhart-CUSUM normal control limit. |
| 4 | N' = **N** * (**N**-1) / 2<br>= **27** * (**27**-1) / 2<br>= **351** | Number of sample pairs during trend detection period. |
| 5 | S = **1.409** | Sen's estimator of trend. |
| 6 | var(S) = **2297.0** | Variance estimate for slope. |
| 7 | $M_1$(S) = (**N'** - **Z**$_{.99}$ * **var(S)**$^{½}$) / 2<br>= (**351** - **2.326** * **2297.0**$^{½}$) / 2<br>= **119.761** | Ordinal position for one-sided lower confidence limit for slope. The LCL is the $M_1^{th}$ largest slope estimate. When $M_1$ is not an integer, interpolation is used. |
| 8 | LCL(S) = **-0.257** | One-sided lower confidence limit for slope. |

## Worksheet 2 - Intra-Well Control Charts / Prediction Limits
## Beryllium, Total (ug/L) at MW-34A
## Nonparametric Prediction Limit

| Step | Equation | Description |
|---|---|---|
| 1 | PL = median(X)<br>= **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 2 - Intra-Well Control Charts / Prediction Limits
## Cadmium, Total (ug/L) at MW-34A
## Nonparametric Prediction Limit

| Step | Equation | Description |
|---|---|---|
| 1 | PL = median(X)<br>= **5.0** | Compute nonparametric prediction limit as median reporting limit in background. |
| 2 | Conf = **0.99** | Confidence level is based on N, K and resampling strategy (see Gibbons 1994). |

## Worksheet 2 - Intra-Well Control Charts / Prediction Limits
## Chromium, Total (ug/L) at MW-34A
## Nonparametric Prediction Limit

| Step | Equation | Description |
|---|---|---|
| 1 | PL = median(X)<br>= **10.0** | 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 2 - Intra-Well Control Charts / Prediction Limits
## Cobalt, Total (ug/L) at MW-34A
## Nonparametric Prediction Limit

| Step | Equation | Description |
|---|---|---|
| 1 | PL = median(X)<br>= **10.0** | 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 2 - Intra-Well Control Charts / Prediction Limits
## Copper, Total (ug/L) at MW-34A
## Nonparametric Prediction Limit

| Step | Equation | Description |
|---|---|---|
| 1 | PL = median(X)<br>= **10.0** | 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 2 - Intra-Well Control Charts / Prediction Limits
## Lead, Total (ug/L) at MW-34A
## Nonparametric Prediction Limit

| Step | Equation | Description |
|---|---|---|
| 1 | PL = median(X)<br>= **10.0** | 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 2 - Intra-Well Control Charts / Prediction Limits
## Nickel, Total (ug/L) at MW-34A
## Nonparametric Prediction Limit

| Step | Equation | Description |
|---|---|---|
| 1 | PL = max(X)<br>= **21.0** | 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 2 - Intra-Well Control Charts / Prediction Limits
## Selenium, Total (ug/L) at MW-34A
## Nonparametric Prediction Limit

| Step | Equation | Description |
|---|---|---|
| 1 | PL = max(X)<br>= **25.0** | 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 2 - Intra-Well Control Charts / Prediction Limits
## Silver, Total (ug/L) at MW-34A
## Nonparametric Prediction Limit

| Step | Equation | Description |
|---|---|---|
| 1 | PL = median(X)<br>= **10.0** | 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 2 - Intra-Well Control Charts / Prediction Limits
## Thallium, Total (ug/L) at MW-34A
## Nonparametric Prediction Limit

| Step | Equation | Description |
|---|---|---|
| 1 | PL = median(X)<br>= **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 2 - Intra-Well Control Charts / Prediction Limits
## Vanadium, Total (ug/L) at MW-34A
## Nonparametric Prediction Limit

| Step | Equation | Description |
|---|---|---|
| 1 | PL = median(X)<br>= **20.0** | 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 2 - Intra-Well Control Charts / Prediction Limits
## Zinc, Total (ug/L) at MW-34A
## Nonparametric Prediction Limit

| Step | Equation | Description |
|---|---|---|
| 1 | PL = median(X)<br>= **20.0** | 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 2 - Intra-Well Control Charts / Prediction Limits
## Antimony, Total (ug/L) at MW-37A
## Nonparametric Prediction Limit

| Step | Equation | Description |
|---|---|---|
| 1 | PL = median(X)<br>= **6.0** | 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 2 - Intra-Well Control Charts / Prediction Limits
## Arsenic, Total (ug/L) at MW-37A
## Nonparametric Prediction Limit

| Step | Equation | Description |
|---|---|---|
| 1 | PL = max(X)<br>= **12.0** | 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 2 - Intra-Well Control Charts / Prediction Limits
## Barium, Total (ug/L) at MW-37A
## Normal Control Limit

| Step | Equation | Description |
|---|---|---|
| 1 | $\overline{X}$ = **sum[X]** / **N**<br>= **3906.0** / **18**<br>= **217.0** | Compute background mean. |
| 2 | S = ( (**sum[X$^2$]** - **sum[X]**$^2$/**N**) / (**N**-1) )$^{½}$<br>= ( (**1.01**x**10$^6$** - **1.53**x**10$^7$**/**18**) / (**18**-1) )$^{½}$<br>= **97.185** | Compute background sd. |
| 3 | SCL = $\overline{\mathbf{X}}$ + **F** * **S**<br>= **217.0** + **6.5** * **97.185**<br>= **848.703** | Compute combined Shewhart-CUSUM normal control limit. |
| 4 | N' = **N** * (**N**-1) / 2<br>= **18** * (**18**-1) / 2<br>= **153** | Number of sample pairs during trend detection period. |
| 5 | S = **49.167** | Sen's estimator of trend. |
| 6 | var(S) = **694.0** | Variance estimate for slope. |
| 7 | $M_1$(S) = (**N'** - **Z**$_{.99}$ * **var(S)**$^{½}$) / 2<br>= (**153** - **2.326** * **694.0**$^{½}$) / 2<br>= **45.862** | Ordinal position for one-sided lower confidence limit for slope. The LCL is the $M_1^{th}$ largest slope estimate. When $M_1$ is not an integer, interpolation is used. |
| 8 | LCL(S) = **38.21** | One-sided lower confidence limit for slope. |
| 9 | LCL(S) > 0 | **Significant increasing trend.** |

## Worksheet 2 - Intra-Well Control Charts / Prediction Limits
## Beryllium, Total (ug/L) at MW-37A
## Nonparametric Prediction Limit

| Step | Equation | Description |
|---|---|---|
| 1 | PL = median(X)<br>= **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 2 - Intra-Well Control Charts / Prediction Limits
## Cadmium, Total (ug/L) at MW-37A
## Nonparametric Prediction Limit

| Step | Equation | Description |
|---|---|---|
| 1 | PL = median(X)<br>= **5.0** | Compute nonparametric prediction limit as median reporting limit in background. |
| 2 | Conf = **0.99** | Confidence level is based on N, K and resampling strategy (see Gibbons 1994). |

## Worksheet 2 - Intra-Well Control Charts / Prediction Limits
## Chromium, Total (ug/L) at MW-37A
## Nonparametric Prediction Limit

| Step | Equation | Description |
|---|---|---|
| 1 | PL = max(X)<br>= **12.0** | 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 2 - Intra-Well Control Charts / Prediction Limits
## Cobalt, Total (ug/L) at MW-37A
## Normal Control Limit

| Step | Equation | Description |
|---|---|---|
| 1 | $\overline{X}$ = **sum[X]** / **N**<br>= **186.3** / **18**<br>= **10.35** | Compute background mean. |
| 2 | S = ( (**sum[X$^2$]** - **sum[X]**$^2$/**N**) / (**N**-1) )$^{½}$<br>= ( (**1966.89** - **34707.69**/**18**) / (**18**-1) )$^{½}$<br>= **1.509** | Compute background sd. |
| 3 | SCL = $\overline{\mathbf{X}}$ + **F** * **S**<br>= **10.35** + **6.5** * **1.509**<br>= **20.155** | Compute combined Shewhart-CUSUM normal control limit. |
| 4 | N' = **N** * (**N**-1) / 2<br>= **18** * (**18**-1) / 2<br>= **153** | Number of sample pairs during trend detection period. |
| 5 | S = **0.0** | Sen's estimator of trend. |
| 6 | var(S) = **362.333** | Variance estimate for slope. |
| 7 | $M_1$(S) = (**N'** - **Z**$_{.99}$ * **var(S)**$^{½}$) / 2<br>= (**153** - **2.326** * **362.333**$^{½}$) / 2<br>= **54.362** | Ordinal position for one-sided lower confidence limit for slope. The LCL is the $M_1^{th}$ largest slope estimate. When $M_1$ is not an integer, interpolation is used. |
| 8 | LCL(S) = **0.0** | One-sided lower confidence limit for slope. |

## Worksheet 2 - Intra-Well Control Charts / Prediction Limits
## Copper, Total (ug/L) at MW-37A
## Nonparametric Prediction Limit

| Step | Equation | Description |
|---|---|---|
| 1 | PL = max(X)<br>= **13.0** | 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 2 - Intra-Well Control Charts / Prediction Limits
## Lead, Total (ug/L) at MW-37A
## Nonparametric Prediction Limit

| Step | Equation | Description |
|---|---|---|
| 1 | PL = median(X)<br>= **10.0** | 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 2 - Intra-Well Control Charts / Prediction Limits
## Nickel, Total (ug/L) at MW-37A
## Normal Control Limit

| Step | Equation | Description |
|---|---|---|
| 1 | $\overline{X}$ = **sum[X]** / **N**<br>= **884.5** / **18**<br>= **49.139** | Compute background mean. |
| 2 | S = ( (**sum[X$^2$]** - **sum[X]**$^2$/**N**) / (**N**-1) )$^{½}$<br>= ( (**47844.23** - **782340.25**/**18**) / (**18**-1) )$^{½}$<br>= **16.053** | Compute background sd. |
| 3 | SCL = $\overline{\mathbf{X}}$ + **F** * **S**<br>= **49.139** + **6.5** * **16.053**<br>= **153.483** | Compute combined Shewhart-CUSUM normal control limit. |
| 4 | N' = **N** * (**N**-1) / 2<br>= **18** * (**18**-1) / 2<br>= **153** | Number of sample pairs during trend detection period. |
| 5 | S = **5.842** | Sen's estimator of trend. |
| 6 | var(S) = **696.0** | Variance estimate for slope. |
| 7 | $M_1$(S) = (**N'** - **Z**$_{.99}$ * **var(S)**$^{½}$) / 2<br>= (**153** - **2.326** * **696.0**$^{½}$) / 2<br>= **45.818** | Ordinal position for one-sided lower confidence limit for slope. The LCL is the $M_1^{th}$ largest slope estimate. When $M_1$ is not an integer, interpolation is used. |
| 8 | LCL(S) = **3.184** | One-sided lower confidence limit for slope. |
| 9 | LCL(S) > 0 | **Significant increasing trend.** |

## Worksheet 2 - Intra-Well Control Charts / Prediction Limits
## Selenium, Total (ug/L) at MW-37A
## Nonparametric Prediction Limit

| Step | Equation | Description |
|---|---|---|
| 1 | PL = median(X)<br>= **10.0** | 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 2 - Intra-Well Control Charts / Prediction Limits
## Silver, Total (ug/L) at MW-37A
## Nonparametric Prediction Limit

| Step | Equation | Description |
|---|---|---|
| 1 | PL = median(X)<br>= **10.0** | 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 2 - Intra-Well Control Charts / Prediction Limits
## Thallium, Total (ug/L) at MW-37A
## Nonparametric Prediction Limit

| Step | Equation | Description |
|---|---|---|
| 1 | PL = median(X)<br>= **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 2 - Intra-Well Control Charts / Prediction Limits
## Vanadium, Total (ug/L) at MW-37A
## Nonparametric Prediction Limit

| Step | Equation | Description |
|---|---|---|
| 1 | PL = median(X)<br>= **20.0** | 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 2 - Intra-Well Control Charts / Prediction Limits
## Zinc, Total (ug/L) at MW-37A
## Nonparametric Prediction Limit

| Step | Equation | Description |
|---|---|---|
| 1 | PL = max(X)<br>= **24.0** | 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 2 - Intra-Well Control Charts / Prediction Limits
## Antimony, Total (ug/L) at MW-38A
## Nonparametric Prediction Limit

| Step | Equation | Description |
|---|---|---|
| 1 | PL = median(X)<br>= **6.0** | 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 2 - Intra-Well Control Charts / Prediction Limits
## Arsenic, Total (ug/L) at MW-38A
## Nonparametric Prediction Limit

| Step | Equation | Description |
|---|---|---|
| 1 | PL = median(X)<br>= **10.0** | 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 2 - Intra-Well Control Charts / Prediction Limits
## Barium, Total (ug/L) at MW-38A
## Normal Control Limit

| Step | Equation | Description |
|---|---|---|
| 1 | $\overline{X}$ = **sum[X]** / **N**<br>= **5757.0** / **27**<br>= **213.222** | Compute background mean. |
| 2 | S = ( (**sum[X$^2$]** - **sum[X]**$^2$/**N**) / (**N**-1) )$^{½}$<br>= ( (**1.24**x**10$^6$** - **3.31**x**10$^7$**/**27**) / (**27**-1) )$^{½}$<br>= **18.344** | Compute background sd. |
| 3 | SCL = $\overline{\mathbf{X}}$ + **F** * **S**<br>= **213.222** + **6.5** * **18.344**<br>= **332.456** | Compute combined Shewhart-CUSUM normal control limit. |
| 4 | N' = **N** * (**N**-1) / 2<br>= **27** * (**27**-1) / 2<br>= **351** | Number of sample pairs during trend detection period. |
| 5 | S = **2.544** | Sen's estimator of trend. |
| 6 | var(S) = **2266.333** | Variance estimate for slope. |
| 7 | $M_1$(S) = (**N'** - **Z**$_{.99}$ * **var(S)**$^{½}$) / 2<br>= (**351** - **2.326** * **2266.333**$^{½}$) / 2<br>= **120.134** | Ordinal position for one-sided lower confidence limit for slope. The LCL is the $M_1^{th}$ largest slope estimate. When $M_1$ is not an integer, interpolation is used. |
| 8 | LCL(S) = **0.0** | One-sided lower confidence limit for slope. |

## Worksheet 2 - Intra-Well Control Charts / Prediction Limits
## Beryllium, Total (ug/L) at MW-38A
## Nonparametric Prediction Limit

| Step | Equation | Description |
|---|---|---|
| 1 | PL = median(X)<br>= **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 2 - Intra-Well Control Charts / Prediction Limits
## Cadmium, Total (ug/L) at MW-38A
## Nonparametric Prediction Limit

| Step | Equation | Description |
|---|---|---|
| 1 | PL = median(X)<br>= **5.0** | Compute nonparametric prediction limit as median reporting limit in background. |
| 2 | Conf = **0.99** | Confidence level is based on N, K and resampling strategy (see Gibbons 1994). |

## Worksheet 2 - Intra-Well Control Charts / Prediction Limits
## Chromium, Total (ug/L) at MW-38A
## Nonparametric Prediction Limit

| Step | Equation | Description |
|---|---|---|
| 1 | PL = median(X)<br>= **10.0** | 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 2 - Intra-Well Control Charts / Prediction Limits
## Cobalt, Total (ug/L) at MW-38A
## Nonparametric Prediction Limit

| Step | Equation | Description |
|---|---|---|
| 1 | PL = median(X)<br>= **10.0** | 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 2 - Intra-Well Control Charts / Prediction Limits
## Copper, Total (ug/L) at MW-38A
## Nonparametric Prediction Limit

| Step | Equation | Description |
|---|---|---|
| 1 | PL = median(X)<br>= **10.0** | 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 2 - Intra-Well Control Charts / Prediction Limits
## Lead, Total (ug/L) at MW-38A
## Nonparametric Prediction Limit

| Step | Equation | Description |
|---|---|---|
| 1 | PL = median(X)<br>= **10.0** | 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 2 - Intra-Well Control Charts / Prediction Limits
## Nickel, Total (ug/L) at MW-38A
## Normal Control Limit

| Step | Equation | Description |
|---|---|---|
| 1 | $\overline{X}$ = **sum[X]** / **N**<br>= **626.6** / **27**<br>= **23.207** | Compute background mean. |
| 2 | S = ( (**sum[X$^2$]** - **sum[X]**$^2$/**N**) / (**N**-1) )$^{½}$<br>= ( (**16022.48** - **392627.56**/**27**) / (**27**-1) )$^{½}$<br>= **7.547** | Compute background sd. |
| 3 | SCL = $\overline{\mathbf{X}}$ + **F** * **S**<br>= **23.207** + **6.5** * **7.547**<br>= **72.26** | Compute combined Shewhart-CUSUM normal control limit. |
| 4 | N' = **N** * (**N**-1) / 2<br>= **27** * (**27**-1) / 2<br>= **351** | Number of sample pairs during trend detection period. |
| 5 | S = **-1.499** | Sen's estimator of trend. |
| 6 | var(S) = **2293.333** | Variance estimate for slope. |
| 7 | $M_1$(S) = (**N'** - **Z**$_{.99}$ * **var(S)**$^{½}$) / 2<br>= (**351** - **2.326** * **2293.333**$^{½}$) / 2<br>= **119.805** | Ordinal position for one-sided lower confidence limit for slope. The LCL is the $M_1^{th}$ largest slope estimate. When $M_1$ is not an integer, interpolation is used. |
| 8 | LCL(S) = **-2.263** | One-sided lower confidence limit for slope. |

## Worksheet 2 - Intra-Well Control Charts / Prediction Limits
## Selenium, Total (ug/L) at MW-38A
## Nonparametric Prediction Limit

| Step | Equation | Description |
|---|---|---|
| 1 | PL = median(X)<br>= **10.0** | 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 2 - Intra-Well Control Charts / Prediction Limits
## Silver, Total (ug/L) at MW-38A
## Nonparametric Prediction Limit

| Step | Equation | Description |
|---|---|---|
| 1 | PL = median(X)<br>= **10.0** | 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 2 - Intra-Well Control Charts / Prediction Limits
## Thallium, Total (ug/L) at MW-38A
## Nonparametric Prediction Limit

| Step | Equation | Description |
|---|---|---|
| 1 | PL = median(X)<br>= **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 2 - Intra-Well Control Charts / Prediction Limits
## Vanadium, Total (ug/L) at MW-38A
## Nonparametric Prediction Limit

| Step | Equation | Description |
|---|---|---|
| 1 | PL = median(X)<br>= **20.0** | 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 2 - Intra-Well Control Charts / Prediction Limits
## Zinc, Total (ug/L) at MW-38A
## Nonparametric Prediction Limit

| Step | Equation | Description |
|---|---|---|
| 1 | PL = median(X)<br>= **20.0** | 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 2 - Intra-Well Control Charts / Prediction Limits
## Antimony, Total (ug/L) at MW-39A
## Nonparametric Prediction Limit

| Step | Equation | Description |
|---|---|---|
| 1 | PL = median(X)<br>= **6.0** | 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 2 - Intra-Well Control Charts / Prediction Limits
## Arsenic, Total (ug/L) at MW-39A
## Nonparametric Prediction Limit

| Step | Equation | Description |
|---|---|---|
| 1 | PL = median(X)<br>= **10.0** | 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 2 - Intra-Well Control Charts / Prediction Limits
## Barium, Total (ug/L) at MW-39A
## Normal Control Limit

| Step | Equation | Description |
|---|---|---|
| 1 | $\overline{X}$ = **sum[X]** / **N**<br>= **5802.0** / **20**<br>= **290.1** | Compute background mean. |
| 2 | S = ( (**sum[X$^2$]** - **sum[X]**$^2$/**N**) / (**N**-1) )$^{½}$<br>= ( (**1.76**x**10$^6$** - **3.37**x**10$^7$**/**20**) / (**20**-1) )$^{½}$<br>= **61.56** | Compute background sd. |
| 3 | SCL = $\overline{\mathbf{X}}$ + **F** * **S**<br>= **290.1** + **6.5** * **61.56**<br>= **690.242** | Compute combined Shewhart-CUSUM normal control limit. |
| 4 | N' = **N** * (**N**-1) / 2<br>= **20** * (**20**-1) / 2<br>= **190** | Number of sample pairs during trend detection period. |
| 5 | S = **-12.267** | Sen's estimator of trend. |
| 6 | var(S) = **938.333** | Variance estimate for slope. |
| 7 | $M_1$(S) = (**N'** - **Z**$_{.99}$ * **var(S)**$^{½}$) / 2<br>= (**190** - **2.326** * **938.333**$^{½}$) / 2<br>= **59.375** | Ordinal position for one-sided lower confidence limit for slope. The LCL is the $M_1^{th}$ largest slope estimate. When $M_1$ is not an integer, interpolation is used. |
| 8 | LCL(S) = **-20.598** | One-sided lower confidence limit for slope. |

## Worksheet 2 - Intra-Well Control Charts / Prediction Limits
## Beryllium, Total (ug/L) at MW-39A
## Nonparametric Prediction Limit

| Step | Equation | Description |
|---|---|---|
| 1 | PL = median(X)<br>= **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 2 - Intra-Well Control Charts / Prediction Limits
## Cadmium, Total (ug/L) at MW-39A
## Nonparametric Prediction Limit

| Step | Equation | Description |
|---|---|---|
| 1 | PL = median(X)<br>= **5.0** | Compute nonparametric prediction limit as median reporting limit in background. |
| 2 | Conf = **0.99** | Confidence level is based on N, K and resampling strategy (see Gibbons 1994). |

## Worksheet 2 - Intra-Well Control Charts / Prediction Limits
## Chromium, Total (ug/L) at MW-39A
## Nonparametric Prediction Limit

| Step | Equation | Description |
|---|---|---|
| 1 | PL = median(X)<br>= **10.0** | 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 2 - Intra-Well Control Charts / Prediction Limits
## Cobalt, Total (ug/L) at MW-39A
## Nonparametric Prediction Limit

| Step | Equation | Description |
|---|---|---|
| 1 | PL = median(X)<br>= **2.8** | 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 2 - Intra-Well Control Charts / Prediction Limits
## Copper, Total (ug/L) at MW-39A
## Nonparametric Prediction Limit

| Step | Equation | Description |
|---|---|---|
| 1 | PL = median(X)<br>= **10.0** | 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 2 - Intra-Well Control Charts / Prediction Limits
## Lead, Total (ug/L) at MW-39A
## Nonparametric Prediction Limit

| Step | Equation | Description |
|---|---|---|
| 1 | PL = median(X)<br>= **10.0** | 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 2 - Intra-Well Control Charts / Prediction Limits
## Nickel, Total (ug/L) at MW-39A
## Nonparametric Prediction Limit

| Step | Equation | Description |
|---|---|---|
| 1 | PL = median(X)<br>= **10.0** | 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 2 - Intra-Well Control Charts / Prediction Limits
## Selenium, Total (ug/L) at MW-39A
## Nonparametric Prediction Limit

| Step | Equation | Description |
|---|---|---|
| 1 | PL = median(X)<br>= **10.0** | 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 2 - Intra-Well Control Charts / Prediction Limits
## Silver, Total (ug/L) at MW-39A
## Nonparametric Prediction Limit

| Step | Equation | Description |
|---|---|---|
| 1 | PL = median(X)<br>= **10.0** | 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 2 - Intra-Well Control Charts / Prediction Limits
## Thallium, Total (ug/L) at MW-39A
## Nonparametric Prediction Limit

| Step | Equation | Description |
|---|---|---|
| 1 | PL = median(X)<br>= **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 2 - Intra-Well Control Charts / Prediction Limits
## Vanadium, Total (ug/L) at MW-39A
## Nonparametric Prediction Limit

| Step | Equation | Description |
|---|---|---|
| 1 | PL = median(X)<br>= **20.0** | 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 2 - Intra-Well Control Charts / Prediction Limits
## Zinc, Total (ug/L) at MW-39A
## Nonparametric Prediction Limit

| Step | Equation | Description |
|---|---|---|
| 1 | PL = median(X)<br>= **20.0** | 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 2 - Intra-Well Control Charts / Prediction Limits
## Antimony, Total (ug/L) at MW-40A
## Nonparametric Prediction Limit

| Step | Equation | Description |
|---|---|---|
| 1 | PL = median(X)<br>= **6.0** | 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 2 - Intra-Well Control Charts / Prediction Limits
## Arsenic, Total (ug/L) at MW-40A
## Nonparametric Prediction Limit

| Step | Equation | Description |
|---|---|---|
| 1 | PL = median(X)<br>= **10.0** | 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 2 - Intra-Well Control Charts / Prediction Limits
## Barium, Total (ug/L) at MW-40A
## Normal Control Limit

| Step | Equation | Description |
|---|---|---|
| 1 | $\overline{X}$ = **sum[X]** / **N**<br>= **4373.0** / **16**<br>= **273.313** | Compute background mean. |
| 2 | S = ( (**sum[X$^2$]** - **sum[X]**$^2$/**N**) / (**N**-1) )$^{½}$<br>= ( (**1.22**x**10$^6$** - **1.91**x**10$^7$**/**16**) / (**16**-1) )$^{½}$<br>= **41.355** | Compute background sd. |
| 3 | SCL = $\overline{\mathbf{X}}$ + **F** * **S**<br>= **273.313** + **6.5** * **41.355**<br>= **542.119** | Compute combined Shewhart-CUSUM normal control limit. |
| 4 | N' = **N** * (**N**-1) / 2<br>= **16** * (**16**-1) / 2<br>= **120** | Number of sample pairs during trend detection period. |
| 5 | S = **11.472** | Sen's estimator of trend. |
| 6 | var(S) = **473.667** | Variance estimate for slope. |
| 7 | $M_1$(S) = (**N'** - **Z**$_{.99}$ * **var(S)**$^{½}$) / 2<br>= (**120** - **2.326** * **473.667**$^{½}$) / 2<br>= **34.689** | Ordinal position for one-sided lower confidence limit for slope. The LCL is the $M_1^{th}$ largest slope estimate. When $M_1$ is not an integer, interpolation is used. |
| 8 | LCL(S) = **0.0** | One-sided lower confidence limit for slope. |

## Worksheet 2 - Intra-Well Control Charts / Prediction Limits
## Beryllium, Total (ug/L) at MW-40A
## Nonparametric Prediction Limit

| Step | Equation | Description |
|---|---|---|
| 1 | PL = median(X)<br>= **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 2 - Intra-Well Control Charts / Prediction Limits
## Cadmium, Total (ug/L) at MW-40A
## Nonparametric Prediction Limit

| Step | Equation | Description |
|---|---|---|
| 1 | PL = median(X)<br>= **5.0** | Compute nonparametric prediction limit as median reporting limit in background. |
| 2 | Conf = **0.99** | Confidence level is based on N, K and resampling strategy (see Gibbons 1994). |

## Worksheet 2 - Intra-Well Control Charts / Prediction Limits
## Chromium, Total (ug/L) at MW-40A
## Nonparametric Prediction Limit

| Step | Equation | Description |
|---|---|---|
| 1 | PL = max(X)<br>= **11.0** | 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 2 - Intra-Well Control Charts / Prediction Limits
## Cobalt, Total (ug/L) at MW-40A
## Nonparametric Prediction Limit

| Step | Equation | Description |
|---|---|---|
| 1 | PL = median(X)<br>= **2.8** | 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 2 - Intra-Well Control Charts / Prediction Limits
## Copper, Total (ug/L) at MW-40A
## Nonparametric Prediction Limit

| Step | Equation | Description |
|---|---|---|
| 1 | PL = median(X)<br>= **10.0** | 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 2 - Intra-Well Control Charts / Prediction Limits
## Lead, Total (ug/L) at MW-40A
## Nonparametric Prediction Limit

| Step | Equation | Description |
|---|---|---|
| 1 | PL = median(X)<br>= **10.0** | 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 2 - Intra-Well Control Charts / Prediction Limits
## Nickel, Total (ug/L) at MW-40A
## Nonparametric Prediction Limit

| Step | Equation | Description |
|---|---|---|
| 1 | PL = median(X)<br>= **10.0** | 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 2 - Intra-Well Control Charts / Prediction Limits
## Selenium, Total (ug/L) at MW-40A
## Nonparametric Prediction Limit

| Step | Equation | Description |
|---|---|---|
| 1 | PL = median(X)<br>= **10.0** | 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 2 - Intra-Well Control Charts / Prediction Limits
## Silver, Total (ug/L) at MW-40A
## Nonparametric Prediction Limit

| Step | Equation | Description |
|---|---|---|
| 1 | PL = median(X)<br>= **10.0** | 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 2 - Intra-Well Control Charts / Prediction Limits
## Thallium, Total (ug/L) at MW-40A
## Nonparametric Prediction Limit

| Step | Equation | Description |
|---|---|---|
| 1 | PL = median(X)<br>= **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 2 - Intra-Well Control Charts / Prediction Limits
## Vanadium, Total (ug/L) at MW-40A
## Nonparametric Prediction Limit

| Step | Equation | Description |
|---|---|---|
| 1 | PL = max(X)<br>= **20.0** | 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 2 - Intra-Well Control Charts / Prediction Limits
## Zinc, Total (ug/L) at MW-40A
## Nonparametric Prediction Limit

| Step | Equation | Description |
|---|---|---|
| 1 | PL = max(X)<br>= **27.0** | 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 2 - Intra-Well Control Charts / Prediction Limits
## Antimony, Total (ug/L) at MW-41A

Insufficient data to perform analysis

## Worksheet 2 - Intra-Well Control Charts / Prediction Limits
## Arsenic, Total (ug/L) at MW-41A

Insufficient data to perform analysis

**Worksheet 2 - Intra-Well Control Charts / Prediction Limits**
**Barium, Total (ug/L) at MW-41A**

Insufficient data to perform analysis

**Worksheet 2 - Intra-Well Control Charts / Prediction Limits**
**Beryllium, Total (ug/L) at MW-41A**

Insufficient data to perform analysis

**Worksheet 2 - Intra-Well Control Charts / Prediction Limits**
**Cadmium, Total (ug/L) at MW-41A**

Insufficient data to perform analysis

**Worksheet 2 - Intra-Well Control Charts / Prediction Limits**
**Chromium, Total (ug/L) at MW-41A**

Insufficient data to perform analysis

**Worksheet 2 - Intra-Well Control Charts / Prediction Limits**
**Cobalt, Total (ug/L) at MW-41A**

Insufficient data to perform analysis

**Worksheet 2 - Intra-Well Control Charts / Prediction Limits**
**Copper, Total (ug/L) at MW-41A**

Insufficient data to perform analysis

**Worksheet 2 - Intra-Well Control Charts / Prediction Limits**
**Lead, Total (ug/L) at MW-41A**

Insufficient data to perform analysis

**Worksheet 2 - Intra-Well Control Charts / Prediction Limits**
**Nickel, Total (ug/L) at MW-41A**

Insufficient data to perform analysis

**Worksheet 2 - Intra-Well Control Charts / Prediction Limits**
**Selenium, Total (ug/L) at MW-41A**

Insufficient data to perform analysis

**Worksheet 2 - Intra-Well Control Charts / Prediction Limits**
**Silver, Total (ug/L) at MW-41A**

Insufficient data to perform analysis

**Worksheet 2 - Intra-Well Control Charts / Prediction Limits**
**Thallium, Total (ug/L) at MW-41A**

Insufficient data to perform analysis

**Worksheet 2 - Intra-Well Control Charts / Prediction Limits**
**Vanadium, Total (ug/L) at MW-41A**

Insufficient data to perform analysis

**Worksheet 2 - Intra-Well Control Charts / Prediction Limits**
**Zinc, Total (ug/L) at MW-41A**

Insufficient data to perform analysis

**Attachment E**

Historical VOC Detections

## Table 1

### Historical Volatile Organic Compound Detections

| Constituent | Well | Date | Identifier | Result | Limit | Units |
|---|---|---|---|---|---|---|
| 1,1-Dichloroethane | GU-B/GU-C | 4/24/2008 | | 16.0 | 1.0 | ug/L |
| 1,1-Dichloroethane | GU-B/GU-C | 5/21/2008 | | 17.0 | 1.0 | ug/L |
| 1,1-Dichloroethane | GU-B/GU-C | 6/18/2008 | | 16.0 | 1.0 | ug/L |
| 1,1-Dichloroethane | GU-B/GU-C | 8/13/2008 | | 19.0 | 1.0 | ug/L |
| 1,1-Dichloroethane | GU-B/GU-C | 9/24/2008 | | 21.0 | 1.0 | ug/L |
| 1,1-Dichloroethane | GU-B/GU-C | 4/27/2009 | | 15.0 | 1.0 | ug/L |
| 1,1-Dichloroethane | GU-B/GU-C | 10/26/2009 | | 5.6 | 1.0 | ug/L |
| 1,1-Dichloroethane | GU-B/GU-C | 12/17/2009 | | 15.0 | 1.0 | ug/L |
| 1,1-Dichloroethane | GU-B/GU-C | 12/17/2009 | | 14.0 | 1.0 | ug/L |
| 1,1-Dichloroethane | GU-B/GU-C | 4/13/2010 | | 21.0 | 1.0 | ug/L |
| 1,1-Dichloroethane | GU-B/GU-C | 7/09/2010 | | 16.0 | 1.0 | ug/L |
| 1,1-Dichloroethane | GU-B/GU-C | 10/18/2010 | | 16.0 | 1.0 | ug/L |
| 1,1-Dichloroethane | GU-B/GU-C | 5/09/2011 | | 29.0 | 1.0 | ug/L |
| 1,1-Dichloroethane | GU-B/GU-C | 4/24/2012 | | 24.0 | 1.0 | ug/L |
| Acetone | GU-B/GU-C | 4/13/2010 | | 10 | 5 | ug/L |
| Benzene | GU-B/GU-C | 4/13/2010 | | 1.3 | 1.0 | ug/L |
| Benzene | GU-B/GU-C | 5/09/2011 | | 1.8 | 1.0 | ug/L |
| Benzene | GU-B/GU-C | 4/24/2012 | | 1.7 | 1.0 | ug/L |
| Bromomethane | GU-B/GU-C | 5/21/2008 | | 1 | 1 | ug/L |
| Chloroethane | GU-B/GU-C | 4/24/2008 | | 9.4 | 1.0 | ug/L |
| Chloroethane | GU-B/GU-C | 5/21/2008 | | 12.0 | 1.0 | ug/L |
| Chloroethane | GU-B/GU-C | 6/18/2008 | | 8.0 | 1.0 | ug/L |
| Chloroethane | GU-B/GU-C | 8/13/2008 | | 24.0 | 1.0 | ug/L |
| Chloroethane | GU-B/GU-C | 9/24/2008 | | 23.0 | 1.0 | ug/L |
| Chloroethane | GU-B/GU-C | 4/27/2009 | | 9.6 | 1.0 | ug/L |
| Chloroethane | GU-B/GU-C | 10/26/2009 | | 2.4 | 1.0 | ug/L |
| Chloroethane | GU-B/GU-C | 12/17/2009 | | 7.1 | 1.0 | ug/L |
| Chloroethane | GU-B/GU-C | 12/17/2009 | | 8.5 | 1.0 | ug/L |
| Chloroethane | GU-B/GU-C | 4/13/2010 | | 28.0 | 1.0 | ug/L |
| Chloroethane | GU-B/GU-C | 7/09/2010 | | 8.1 | 1.0 | ug/L |
| Chloroethane | GU-B/GU-C | 10/18/2010 | | 8.0 | 1.0 | ug/L |
| Chloroethane | GU-B/GU-C | 5/09/2011 | | 12.0 | 1.0 | ug/L |
| Chloroethane | GU-B/GU-C | 4/24/2012 | | 16.0 | 1.0 | ug/L |
| cis-1,2-Dichloroethene | GU-B/GU-C | 4/24/2008 | | 33.0 | 1.0 | ug/L |
| cis-1,2-Dichloroethene | GU-B/GU-C | 5/21/2008 | | 37.0 | 1.0 | ug/L |
| cis-1,2-Dichloroethene | GU-B/GU-C | 6/18/2008 | | 36.0 | 1.0 | ug/L |
| cis-1,2-Dichloroethene | GU-B/GU-C | 8/13/2008 | | 36.0 | 1.0 | ug/L |
| cis-1,2-Dichloroethene | GU-B/GU-C | 9/24/2008 | | 40.0 | 1.0 | ug/L |
| cis-1,2-Dichloroethene | GU-B/GU-C | 4/27/2009 | | 23.0 | 1.0 | ug/L |
| cis-1,2-Dichloroethene | GU-B/GU-C | 10/26/2009 | | 9.6 | 1.0 | ug/L |
| cis-1,2-Dichloroethene | GU-B/GU-C | 12/17/2009 | | 24.0 | 1.0 | ug/L |
| cis-1,2-Dichloroethene | GU-B/GU-C | 12/17/2009 | | 24.0 | 1.0 | ug/L |
| cis-1,2-Dichloroethene | GU-B/GU-C | 4/13/2010 | | 33.0 | 1.0 | ug/L |
| cis-1,2-Dichloroethene | GU-B/GU-C | 7/09/2010 | | 21.0 | 1.0 | ug/L |
| cis-1,2-Dichloroethene | GU-B/GU-C | 10/18/2010 | | 25.0 | 1.0 | ug/L |
| cis-1,2-Dichloroethene | GU-B/GU-C | 5/09/2011 | | 38.0 | 1.0 | ug/L |
| cis-1,2-Dichloroethene | GU-B/GU-C | 4/24/2012 | | 28.0 | 1.0 | ug/L |
| Iodomethane | GU-B/GU-C | 5/21/2008 | | 3.8 | 1.0 | ug/L |
| Methyl Ethyl Ketone | GU-B/GU-C | 4/13/2010 | | 13 | 5 | ug/L |
| Methylene chloride | GU-B/GU-C | 7/09/2010 | | 3.2 | 1.0 | ug/L |
| Methylene chloride | GU-B/GU-C | 10/18/2010 | | 1.8 | 1.0 | ug/L |
| Methylene chloride | GU-B/GU-C | 4/24/2012 | | 1.2 | 1.0 | ug/L |
| Trichloroethene | GU-B/GU-C | 4/24/2008 | | 8.7 | 1.0 | ug/L |

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

## Table 1

### Historical Volatile Organic Compound Detections

| Constituent | Well | Date | Identifier | Result | Limit | Units |
|---|---|---|---|---|---|---|
| Trichloroethene | GU-B/GU-C | 5/21/2008 | | 11.0 | 1.0 | ug/L |
| Trichloroethene | GU-B/GU-C | 6/18/2008 | | 7.3 | 1.0 | ug/L |
| Trichloroethene | GU-B/GU-C | 8/13/2008 | | 10.0 | 1.0 | ug/L |
| Trichloroethene | GU-B/GU-C | 9/24/2008 | | 9.1 | 1.0 | ug/L |
| Trichloroethene | GU-B/GU-C | 4/27/2009 | | 4.6 | 1.0 | ug/L |
| Trichloroethene | GU-B/GU-C | 10/26/2009 | | 1.5 | 1.0 | ug/L |
| Trichloroethene | GU-B/GU-C | 12/17/2009 | | 3.4 | 1.0 | ug/L |
| Trichloroethene | GU-B/GU-C | 12/17/2009 | | 3.4 | 1.0 | ug/L |
| Trichloroethene | GU-B/GU-C | 4/13/2010 | | 4.4 | 1.0 | ug/L |
| Trichloroethene | GU-B/GU-C | 7/09/2010 | | 6.0 | 1.0 | ug/L |
| Trichloroethene | GU-B/GU-C | 10/18/2010 | | 3.6 | 1.0 | ug/L |
| Trichloroethene | GU-B/GU-C | 5/09/2011 | | 4.5 | 1.0 | ug/L |
| Trichloroethene | GU-B/GU-C | 4/24/2012 | | 3.1 | 1.0 | ug/L |
| Vinyl chloride | GU-B/GU-C | 4/24/2008 | | 9.6 | 1.0 | ug/L |
| Vinyl chloride | GU-B/GU-C | 5/21/2008 | | 12.0 | 1.0 | ug/L |
| Vinyl chloride | GU-B/GU-C | 6/18/2008 | | 10.0 | 1.0 | ug/L |
| Vinyl chloride | GU-B/GU-C | 8/13/2008 | | 14.0 | 1.0 | ug/L |
| Vinyl chloride | GU-B/GU-C | 9/24/2008 | | 16.0 | 1.0 | ug/L |
| Vinyl chloride | GU-B/GU-C | 4/27/2009 | | 11.0 | 1.0 | ug/L |
| Vinyl chloride | GU-B/GU-C | 10/26/2009 | | 1.6 | 1.0 | ug/L |
| Vinyl chloride | GU-B/GU-C | 12/17/2009 | | 8.0 | 1.0 | ug/L |
| Vinyl chloride | GU-B/GU-C | 12/17/2009 | | 6.5 | 1.0 | ug/L |
| Vinyl chloride | GU-B/GU-C | 4/13/2010 | | 17.0 | 1.0 | ug/L |
| Vinyl chloride | GU-B/GU-C | 7/09/2010 | | 5.8 | 1.0 | ug/L |
| Vinyl chloride | GU-B/GU-C | 10/18/2010 | | 7.4 | 1.0 | ug/L |
| Vinyl chloride | GU-B/GU-C | 5/09/2011 | | 11.0 | 1.0 | ug/L |
| Vinyl chloride | GU-B/GU-C | 4/24/2012 | | 8.7 | 1.0 | ug/L |
| 1,1-Dichloroethane | GW HOLDING POND | 12/04/2012 | | 2.3 | 1.0 | ug/L |
| Chloroethane | GW HOLDING POND | 12/04/2012 | | 1.2 | 1.0 | ug/L |
| cis-1,2-Dichloroethene | GW HOLDING POND | 12/04/2012 | | 2.6 | 1.0 | ug/L |
| 1,1-Dichloroethane | Holding Pond | 8/29/2013 | | 1.20 | 1.00 | ug/L |
| 1,1-Dichloroethane | Holding Pond | 11/16/2016 | | 1.80 | 1.00 | ug/L |
| 1,1-Dichloroethane | Holding Pond | 1/23/2017 | | 7.90 | 1.00 | ug/L |
| 1,1-Dichloroethane | Holding Pond | 11/21/2017 | | 1.00 | 1.00 | ug/L |
| 1,1-Dichloroethane | Holding Pond | 10/15/2019 | | 1.00 | 1.00 | ug/L |
| 1,1-Dichloroethane | Holding Pond | 10/07/2020 | | 1.77 | 1.00 | ug/L |
| 1,1-Dichloroethane | Holding Pond | 11/09/2021 | | 2.02 | 1.00 | ug/L |
| 1,1-Dichloroethane | Holding Pond | 10/05/2023 | | 1.69 | 1.00 | ug/L |
| Acetone | Holding Pond | 3/07/2001 | | 6.5 | 5.0 | ug/L |
| cis-1,2-Dichloroethene | Holding Pond | 10/13/2000 | | 6.10 | 1.00 | ug/L |
| cis-1,2-Dichloroethene | Holding Pond | 10/18/2000 | | 8.40 | 1.00 | ug/L |
| cis-1,2-Dichloroethene | Holding Pond | 10/25/2000 | | 4.20 | 1.00 | ug/L |
| cis-1,2-Dichloroethene | Holding Pond | 11/01/2000 | | 2.30 | 1.00 | ug/L |
| cis-1,2-Dichloroethene | Holding Pond | 11/09/2000 | | 1.30 | 1.00 | ug/L |
| cis-1,2-Dichloroethene | Holding Pond | 12/20/2000 | | 9.00 | 1.00 | ug/L |
| cis-1,2-Dichloroethene | Holding Pond | 1/04/2001 | | 11.00 | 1.00 | ug/L |
| cis-1,2-Dichloroethene | Holding Pond | 2/07/2001 | | 7.40 | 1.00 | ug/L |
| cis-1,2-Dichloroethene | Holding Pond | 3/07/2001 | | 8.50 | 1.00 | ug/L |
| cis-1,2-Dichloroethene | Holding Pond | 4/17/2001 | | 1.90 | 1.00 | ug/L |
| cis-1,2-Dichloroethene | Holding Pond | 6/06/2001 | | 2.00 | 1.00 | ug/L |
| cis-1,2-Dichloroethene | Holding Pond | 7/09/2001 | | 1.60 | 1.00 | ug/L |
| cis-1,2-Dichloroethene | Holding Pond | 8/08/2001 | | 1.80 | 1.00 | ug/L |
| cis-1,2-Dichloroethene | Holding Pond | 10/02/2001 | | 1.80 | 1.00 | ug/L |

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

## Table 1

### Historical Volatile Organic Compound Detections

| Constituent | Well | Date | Identifier | Result | Limit | Units |
|---|---|---|---|---|---|---|
| cis-1,2-Dichloroethene | Holding Pond | 1/09/2002 | | 11.00 | 1.00 | ug/L |
| cis-1,2-Dichloroethene | Holding Pond | 1/31/2002 | | 5.80 | 1.00 | ug/L |
| cis-1,2-Dichloroethene | Holding Pond | 2/25/2002 | | 2.80 | 1.00 | ug/L |
| cis-1,2-Dichloroethene | Holding Pond | 3/25/2002 | | 3.60 | 1.00 | ug/L |
| cis-1,2-Dichloroethene | Holding Pond | 4/22/2002 | | 1.60 | 1.00 | ug/L |
| cis-1,2-Dichloroethene | Holding Pond | 5/24/2002 | | 1.30 | 1.00 | ug/L |
| cis-1,2-Dichloroethene | Holding Pond | 8/12/2002 | | 1.40 | 1.00 | ug/L |
| cis-1,2-Dichloroethene | Holding Pond | 9/18/2002 | | 1.20 | 1.00 | ug/L |
| cis-1,2-Dichloroethene | Holding Pond | 10/10/2002 | | 1.10 | 1.00 | ug/L |
| cis-1,2-Dichloroethene | Holding Pond | 1/07/2003 | | 3.00 | 1.00 | ug/L |
| cis-1,2-Dichloroethene | Holding Pond | 2/27/2003 | | 7.50 | 1.00 | ug/L |
| cis-1,2-Dichloroethene | Holding Pond | 3/18/2003 | | 2.70 | 1.00 | ug/L |
| cis-1,2-Dichloroethene | Holding Pond | 5/27/2003 | | 1.20 | 1.00 | ug/L |
| cis-1,2-Dichloroethene | Holding Pond | 8/13/2003 | | 1.10 | 1.00 | ug/L |
| cis-1,2-Dichloroethene | Holding Pond | 9/02/2003 | | 1.10 | 1.00 | ug/L |
| cis-1,2-Dichloroethene | Holding Pond | 10/15/2003 | | 1.20 | 1.00 | ug/L |
| cis-1,2-Dichloroethene | Holding Pond | 8/29/2013 | | 1.10 | 1.00 | ug/L |
| cis-1,2-Dichloroethene | Holding Pond | 11/16/2016 | | 1.90 | 1.00 | ug/L |
| cis-1,2-Dichloroethene | Holding Pond | 1/23/2017 | | 9.00 | 1.00 | ug/L |
| cis-1,2-Dichloroethene | Holding Pond | 11/21/2017 | | 1.00 | 1.00 | ug/L |
| cis-1,2-Dichloroethene | Holding Pond | 10/15/2019 | | 1.60 | 1.00 | ug/L |
| cis-1,2-Dichloroethene | Holding Pond | 6/03/2020 | | 1.05 | 1.00 | ug/L |
| cis-1,2-Dichloroethene | Holding Pond | 10/07/2020 | | 2.96 | 1.00 | ug/L |
| cis-1,2-Dichloroethene | Holding Pond | 11/09/2021 | | 2.75 | 1.00 | ug/L |
| cis-1,2-Dichloroethene | Holding Pond | 10/05/2023 | | 2.66 | 1.00 | ug/L |
| Methylene chloride | Holding Pond | 8/13/2003 | | 1.8 | 1.0 | ug/L |
| Toluene | Holding Pond | 8/01/2013 | | 2 | 1 | ug/L |
| Trichloroethene | Holding Pond | 10/13/2000 | | 5.6 | 1.0 | ug/L |
| Trichloroethene | Holding Pond | 10/18/2000 | | 7.1 | 1.0 | ug/L |
| Trichloroethene | Holding Pond | 10/25/2000 | | 4.3 | 1.0 | ug/L |
| Trichloroethene | Holding Pond | 11/01/2000 | | 2.7 | 1.0 | ug/L |
| Trichloroethene | Holding Pond | 11/09/2000 | | 1.5 | 1.0 | ug/L |
| Trichloroethene | Holding Pond | 12/20/2000 | | 6.8 | 1.0 | ug/L |
| Trichloroethene | Holding Pond | 1/04/2001 | | 7.0 | 1.0 | ug/L |
| Trichloroethene | Holding Pond | 2/07/2001 | | 4.1 | 1.0 | ug/L |
| Trichloroethene | Holding Pond | 3/07/2001 | | 5.5 | 1.0 | ug/L |
| Trichloroethene | Holding Pond | 4/17/2001 | | 1.4 | 1.0 | ug/L |
| Trichloroethene | Holding Pond | 6/06/2001 | | 1.3 | 1.0 | ug/L |
| Trichloroethene | Holding Pond | 7/09/2001 | | 1.1 | 1.0 | ug/L |
| Trichloroethene | Holding Pond | 8/08/2001 | | 1.4 | 1.0 | ug/L |
| Trichloroethene | Holding Pond | 10/02/2001 | | 1.4 | 1.0 | ug/L |
| Trichloroethene | Holding Pond | 1/09/2002 | | 8.3 | 1.0 | ug/L |
| Trichloroethene | Holding Pond | 1/31/2002 | | 4.5 | 1.0 | ug/L |
| Trichloroethene | Holding Pond | 2/25/2002 | | 1.6 | 1.0 | ug/L |
| Trichloroethene | Holding Pond | 3/25/2002 | | 2.5 | 1.0 | ug/L |
| Trichloroethene | Holding Pond | 4/22/2002 | | 1.3 | 1.0 | ug/L |
| Trichloroethene | Holding Pond | 5/24/2002 | | 1.2 | 1.0 | ug/L |
| Trichloroethene | Holding Pond | 8/12/2002 | | 1.2 | 1.0 | ug/L |
| Trichloroethene | Holding Pond | 1/07/2003 | | 2.4 | 1.0 | ug/L |
| Trichloroethene | Holding Pond | 2/27/2003 | | 5.0 | 1.0 | ug/L |
| Trichloroethene | Holding Pond | 3/18/2003 | | 2.0 | 1.0 | ug/L |
| Vinyl chloride | Holding Pond | 10/13/2000 | | .29 | 1.00 | ug/L |
| Vinyl chloride | Holding Pond | 1/09/2002 | | 1.10 | 1.00 | ug/L |

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

## Table 1

### Historical Volatile Organic Compound Detections

| Constituent | Well | Date | Identifier | Result | Limit | Units |
|---|---|---|---|---|---|---|
| Vinyl chloride | Holding Pond | 3/25/2002 | | .35 | 1.00 | ug/L |
| 1,1-Dichloroethane | MW-12A | 10/21/1996 | | 96.0 | 5.0 | ug/L |
| 1,1-Dichloroethane | MW-12A | 4/24/2008 | | 120.0 | 2.0 | ug/L |
| 1,1-Dichloroethane | MW-12A | 5/21/2008 | | 140.0 | 4.0 | ug/L |
| 1,1-Dichloroethane | MW-12A | 6/18/2008 | | 120.0 | 4.0 | ug/L |
| 1,1-Dichloroethane | MW-12A | 8/13/2008 | | 120.0 | 4.0 | ug/L |
| 1,1-Dichloroethane | MW-12A | 9/24/2008 | | 120.0 | 4.0 | ug/L |
| 1,1-Dichloroethane | MW-12A | 4/27/2009 | | 110.0 | 2.0 | ug/L |
| 1,1-Dichloroethane | MW-12A | 10/26/2009 | | 97.0 | 1.0 | ug/L |
| 1,1-Dichloroethane | MW-12A | 10/26/2009 | | 94.0 | 1.0 | ug/L |
| 1,1-Dichloroethane | MW-12A | 12/17/2009 | | 85.0 | 2.0 | ug/L |
| 1,1-Dichloroethane | MW-12A | 12/17/2009 | | 93.0 | 2.0 | ug/L |
| 1,1-Dichloroethane | MW-12A | 4/13/2010 | | 70.0 | 2.0 | ug/L |
| 1,1-Dichloroethane | MW-12A | 7/09/2010 | | 90.0 | 2.0 | ug/L |
| 1,1-Dichloroethane | MW-12A | 10/18/2010 | | 81.0 | 2.0 | ug/L |
| 1,1-Dichloroethane | MW-12A | 5/09/2011 | | 64.0 | 1.0 | ug/L |
| 1,1-Dichloroethane | MW-12A | 10/19/2011 | | 70.0 | 1.0 | ug/L |
| 1,1-Dichloroethane | MW-12A | 4/24/2012 | | 81.0 | 2.0 | ug/L |
| 1,1-Dichloroethane | MW-12A | 10/25/2012 | | 75.0 | 2.0 | ug/L |
| 1,1-Dichloroethane | MW-12A | 5/07/2013 | | 83.0 | 2.0 | ug/L |
| 1,1-Dichloroethane | MW-12A | 11/11/2013 | | 61.0 | 1.0 | ug/L |
| 1,1-Dichloroethane | MW-12A | 5/13/2014 | | 71.0 | 1.0 | ug/L |
| 1,1-Dichloroethane | MW-12A | 11/12/2014 | | 64.0 | 1.0 | ug/L |
| 1,1-Dichloroethane | MW-12A | 5/27/2015 | | 67.0 | 1.0 | ug/L |
| 1,1-Dichloroethane | MW-12A | 11/18/2015 | | 57.0 | 1.0 | ug/L |
| 1,1-Dichloroethane | MW-12A | 6/16/2016 | | 35.0 | 1.0 | ug/L |
| 1,1-Dichloroethane | MW-12A | 11/16/2016 | | 33.0 | 1.0 | ug/L |
| 1,1-Dichloroethane | MW-12A | 5/30/2017 | | 33.0 | 1.0 | ug/L |
| 1,1-Dichloroethane | MW-12A | 11/21/2017 | | 42.0 | 1.0 | ug/L |
| 1,1-Dichloroethane | MW-12A | 5/31/2018 | | 40.0 | 1.0 | ug/L |
| 1,1-Dichloroethane | MW-12A | 10/31/2018 | | 44.0 | 1.0 | ug/L |
| 1,1-Dichloroethane | MW-12A | 5/28/2019 | | 32.0 | 1.0 | ug/L |
| 1,1-Dichloroethane | MW-12A | 10/15/2019 | | 26.0 | 1.0 | ug/L |
| 1,1-Dichloroethane | MW-12A | 6/03/2020 | | 32.9 | 1.0 | ug/L |
| 1,1-Dichloroethane | MW-12A | 10/07/2020 | | 27.0 | 1.0 | ug/L |
| 1,1-Dichloroethane | MW-12A | 5/03/2021 | | 17.6 | 1.0 | ug/L |
| 1,1-Dichloroethane | MW-12A | 11/09/2021 | | 25.8 | 1.0 | ug/L |
| 1,1-Dichloroethane | MW-12A | 5/17/2022 | | 21.5 | 1.0 | ug/L |
| 1,1-Dichloroethane | MW-12A | 10/17/2022 | | 24.5 | 1.0 | ug/L |
| 1,1-Dichloroethane | MW-12A | 6/08/2023 | | 20.1 | 1.0 | ug/L |
| 1,1-Dichloroethane | MW-12A | 10/05/2023 | | 28.7 | 1.0 | ug/L |
| 1,1-Dichloroethane | MW-12A | 5/20/2024 | | 14.6 | 1.0 | ug/L |
| 1,1-Dichloroethane | MW-12A | 10/02/2024 | | 18.2 | 1.0 | ug/L |
| 1,1-Dichloroethane | MW-12A | 5/12/2025 | | 27.0 | 1.0 | ug/L |
| 1,1-Dichloroethane | MW-12A | 10/14/2025 | | 21.4 | 1.0 | ug/L |
| 1,2-Dichloroethane | MW-12A | 4/27/2001 | | .4 | .4 | ug/L |
| 1,2-Dichloroethane | MW-12A | 10/11/2001 | | .5 | .4 | ug/L |
| 1,2-Dichloroethane | MW-12A | 4/22/2002 | | .6 | .4 | ug/L |
| 1,2-Dichloropropane | MW-12A | 4/24/2008 | | 5.30 | 2.00 | ug/L |
| 1,2-Dichloropropane | MW-12A | 5/21/2008 | | 6.40 | 1.00 | ug/L |
| 1,2-Dichloropropane | MW-12A | 4/27/2009 | | 5.60 | 2.00 | ug/L |
| 1,2-Dichloropropane | MW-12A | 10/26/2009 | | 5.00 | 1.00 | ug/L |
| 1,2-Dichloropropane | MW-12A | 10/26/2009 | | 4.90 | 1.00 | ug/L |

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

## Table 1

### Historical Volatile Organic Compound Detections

| Constituent | Well | Date | Identifier | Result | Limit | Units |
|---|---|---|---|---|---|---|
| 1,2-Dichloropropane | MW-12A | 12/17/2009 | | 5.70 | 2.00 | ug/L |
| 1,2-Dichloropropane | MW-12A | 12/17/2009 | | 4.80 | 2.00 | ug/L |
| 1,2-Dichloropropane | MW-12A | 4/13/2010 | | 5.90 | 2.00 | ug/L |
| 1,2-Dichloropropane | MW-12A | 7/09/2010 | | 6.40 | 2.00 | ug/L |
| 1,2-Dichloropropane | MW-12A | 10/18/2010 | | 5.80 | 2.00 | ug/L |
| 1,2-Dichloropropane | MW-12A | 5/09/2011 | | 4.90 | 1.00 | ug/L |
| 1,2-Dichloropropane | MW-12A | 10/19/2011 | | 4.80 | 1.00 | ug/L |
| 1,2-Dichloropropane | MW-12A | 4/24/2012 | | 5.30 | 2.00 | ug/L |
| 1,2-Dichloropropane | MW-12A | 10/25/2012 | | 5.10 | 2.00 | ug/L |
| 1,2-Dichloropropane | MW-12A | 5/07/2013 | | 5.10 | 2.00 | ug/L |
| 1,2-Dichloropropane | MW-12A | 11/11/2013 | | 4.70 | 1.00 | ug/L |
| 1,2-Dichloropropane | MW-12A | 5/13/2014 | | 4.70 | 1.00 | ug/L |
| 1,2-Dichloropropane | MW-12A | 11/12/2014 | | 4.60 | 1.00 | ug/L |
| 1,2-Dichloropropane | MW-12A | 5/27/2015 | | 4.70 | 1.00 | ug/L |
| 1,2-Dichloropropane | MW-12A | 11/18/2015 | | 4.40 | 1.00 | ug/L |
| 1,2-Dichloropropane | MW-12A | 6/16/2016 | | 3.70 | 1.00 | ug/L |
| 1,2-Dichloropropane | MW-12A | 11/16/2016 | | 3.10 | 1.00 | ug/L |
| 1,2-Dichloropropane | MW-12A | 5/30/2017 | | 3.00 | 1.00 | ug/L |
| 1,2-Dichloropropane | MW-12A | 11/21/2017 | | 3.10 | 1.00 | ug/L |
| 1,2-Dichloropropane | MW-12A | 5/31/2018 | | 2.80 | 1.00 | ug/L |
| 1,2-Dichloropropane | MW-12A | 10/31/2018 | | 2.90 | 1.00 | ug/L |
| 1,2-Dichloropropane | MW-12A | 5/28/2019 | | 2.20 | 1.00 | ug/L |
| 1,2-Dichloropropane | MW-12A | 10/15/2019 | | 2.30 | 1.00 | ug/L |
| 1,2-Dichloropropane | MW-12A | 6/03/2020 | | 1.99 | 1.00 | ug/L |
| 1,2-Dichloropropane | MW-12A | 10/07/2020 | | 1.89 | 1.00 | ug/L |
| 1,2-Dichloropropane | MW-12A | 5/03/2021 | | 1.33 | 1.00 | ug/L |
| 1,2-Dichloropropane | MW-12A | 11/09/2021 | | 1.76 | 1.00 | ug/L |
| 1,2-Dichloropropane | MW-12A | 5/17/2022 | | 1.47 | 1.00 | ug/L |
| 1,2-Dichloropropane | MW-12A | 10/17/2022 | | 1.66 | 1.00 | ug/L |
| 1,2-Dichloropropane | MW-12A | 6/08/2023 | | 1.35 | 1.00 | ug/L |
| 1,2-Dichloropropane | MW-12A | 10/05/2023 | | 1.81 | 1.00 | ug/L |
| 1,2-Dichloropropane | MW-12A | 5/20/2024 | | 1.02 | 1.00 | ug/L |
| 1,2-Dichloropropane | MW-12A | 10/02/2024 | | 1.17 | 1.00 | ug/L |
| 1,2-Dichloropropane | MW-12A | 5/12/2025 | | 1.75 | 1.00 | ug/L |
| 1,2-Dichloropropane | MW-12A | 10/14/2025 | | 1.41 | 1.00 | ug/L |
| Acetone | MW-12A | 5/17/2022 | | 85.2 | 25.0 | ug/L |
| Acetone | MW-12A | 6/08/2023 | | 48.5 | 25.0 | ug/L |
| Alpha-chlordane | MW-12A | 5/03/2021 | | .17 | .05 | ug/L |
| Benzene | MW-12A | 5/31/1996 | | 5.00 | 5.00 | ug/L |
| Benzene | MW-12A | 10/21/1996 | | 11.00 | 5.00 | ug/L |
| Benzene | MW-12A | 5/13/1998 | | 6.00 | 3.00 | ug/L |
| Benzene | MW-12A | 7/26/1999 | | 2.00 | 1.00 | ug/L |
| Benzene | MW-12A | 10/13/2000 | | 1.00 | 1.00 | ug/L |
| Benzene | MW-12A | 4/27/2001 | | 2.00 | 1.00 | ug/L |
| Benzene | MW-12A | 10/11/2001 | | 3.00 | 1.00 | ug/L |
| Benzene | MW-12A | 4/22/2002 | | 3.00 | 1.00 | ug/L |
| Benzene | MW-12A | 10/02/2002 | | 3.00 | 1.00 | ug/L |
| Benzene | MW-12A | 4/24/2003 | | 2.00 | 1.00 | ug/L |
| Benzene | MW-12A | 10/15/2003 | | 2.00 | 1.00 | ug/L |
| Benzene | MW-12A | 4/27/2004 | | 2.00 | 1.00 | ug/L |
| Benzene | MW-12A | 10/05/2004 | | 3.00 | 2.00 | ug/L |
| Benzene | MW-12A | 4/20/2005 | | 2.00 | 1.00 | ug/L |
| Benzene | MW-12A | 10/05/2006 | | 4.00 | 1.00 | ug/L |

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

## Table 1

### Historical Volatile Organic Compound Detections

| Constituent | Well | Date | Identifier | Result | Limit | Units |
|---|---|---|---|---|---|---|
| Benzene | MW-12A | 4/18/2007 | | 3.00 | 1.00 | ug/L |
| Benzene | MW-12A | 10/03/2007 | | 3.00 | 1.00 | ug/L |
| Benzene | MW-12A | 4/24/2008 | | 2.60 | 2.00 | ug/L |
| Benzene | MW-12A | 5/21/2008 | | 2.60 | 1.00 | ug/L |
| Benzene | MW-12A | 4/27/2009 | | 2.00 | 2.00 | ug/L |
| Benzene | MW-12A | 10/26/2009 | | 1.90 | 1.00 | ug/L |
| Benzene | MW-12A | 10/26/2009 | | 1.80 | 1.00 | ug/L |
| Benzene | MW-12A | 4/13/2010 | | 2.70 | 2.00 | ug/L |
| Benzene | MW-12A | 7/09/2010 | | 2.10 | 2.00 | ug/L |
| Benzene | MW-12A | 5/09/2011 | | 1.70 | 1.00 | ug/L |
| Benzene | MW-12A | 10/19/2011 | | 1.10 | 1.00 | ug/L |
| Benzene | MW-12A | 11/11/2013 | | 1.10 | 1.00 | ug/L |
| Benzene | MW-12A | 5/13/2014 | | 1.00 | 1.00 | ug/L |
| Benzene | MW-12A | 11/12/2014 | | 1.20 | 1.00 | ug/L |
| Benzene | MW-12A | 5/27/2015 | | 1.20 | 1.00 | ug/L |
| Benzene | MW-12A | 11/18/2015 | | 1.30 | 1.00 | ug/L |
| Benzene | MW-12A | 6/16/2016 | | 1.20 | 1.00 | ug/L |
| Benzene | MW-12A | 11/16/2016 | | 1.20 | 1.00 | ug/L |
| Benzene | MW-12A | 5/30/2017 | | 1.10 | 1.00 | ug/L |
| Benzene | MW-12A | 11/21/2017 | | 1.40 | 1.00 | ug/L |
| Benzene | MW-12A | 5/31/2018 | | 1.60 | 1.00 | ug/L |
| Benzene | MW-12A | 10/31/2018 | | 1.60 | 1.00 | ug/L |
| Benzene | MW-12A | 5/28/2019 | | 1.80 | 1.00 | ug/L |
| Benzene | MW-12A | 10/15/2019 | | 1.70 | 1.00 | ug/L |
| Benzene | MW-12A | 6/03/2020 | | 1.44 | 1.00 | ug/L |
| Benzene | MW-12A | 10/07/2020 | | 1.63 | 1.00 | ug/L |
| Benzene | MW-12A | 5/03/2021 | | 1.57 | 1.00 | ug/L |
| Benzene | MW-12A | 11/09/2021 | | 2.10 | 1.00 | ug/L |
| Benzene | MW-12A | 5/17/2022 | | 1.88 | 1.00 | ug/L |
| Benzene | MW-12A | 10/17/2022 | | 1.75 | 1.00 | ug/L |
| Benzene | MW-12A | 6/08/2023 | | 2.63 | 1.00 | ug/L |
| Benzene | MW-12A | 10/05/2023 | | 2.29 | 1.00 | ug/L |
| Benzene | MW-12A | 5/20/2024 | | 2.94 | 1.00 | ug/L |
| Benzene | MW-12A | 10/02/2024 | | 1.38 | 1.00 | ug/L |
| Benzene | MW-12A | 5/12/2025 | | 1.42 | 1.00 | ug/L |
| Benzene | MW-12A | 10/14/2025 | | 1.28 | 1.00 | ug/L |
| Chlordane | MW-12A | 5/03/2021 | | 3.11 | .50 | ug/L |
| Chloroethane | MW-12A | 10/21/1996 | | 19.00 | 10.00 | ug/L |
| Chloroethane | MW-12A | 4/24/2008 | | 22.00 | 2.00 | ug/L |
| Chloroethane | MW-12A | 5/21/2008 | | 29.00 | 1.00 | ug/L |
| Chloroethane | MW-12A | 6/18/2008 | | 23.00 | 4.00 | ug/L |
| Chloroethane | MW-12A | 8/13/2008 | | 47.00 | 4.00 | ug/L |
| Chloroethane | MW-12A | 4/27/2009 | | 26.00 | 2.00 | ug/L |
| Chloroethane | MW-12A | 10/26/2009 | | 61.00 | 1.00 | ug/L |
| Chloroethane | MW-12A | 10/26/2009 | | 34.00 | 1.00 | ug/L |
| Chloroethane | MW-12A | 12/17/2009 | | 24.00 | 2.00 | ug/L |
| Chloroethane | MW-12A | 12/17/2009 | | 24.00 | 2.00 | ug/L |
| Chloroethane | MW-12A | 4/13/2010 | | 62.00 | 2.00 | ug/L |
| Chloroethane | MW-12A | 7/09/2010 | | 24.00 | 2.00 | ug/L |
| Chloroethane | MW-12A | 10/18/2010 | | 20.00 | 2.00 | ug/L |
| Chloroethane | MW-12A | 5/09/2011 | | 21.00 | 1.00 | ug/L |
| Chloroethane | MW-12A | 10/19/2011 | | 18.00 | 1.00 | ug/L |
| Chloroethane | MW-12A | 4/24/2012 | | 38.00 | 2.00 | ug/L |

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

## Table 1

### Historical Volatile Organic Compound Detections

| Constituent | Well | Date | Identifier | Result | Limit | Units |
|---|---|---|---|---|---|---|
| Chloroethane | MW-12A | 10/25/2012 | | 23.00 | 2.00 | ug/L |
| Chloroethane | MW-12A | 5/07/2013 | | 21.00 | 2.00 | ug/L |
| Chloroethane | MW-12A | 11/11/2013 | | 21.00 | 1.00 | ug/L |
| Chloroethane | MW-12A | 5/13/2014 | | 11.00 | 1.00 | ug/L |
| Chloroethane | MW-12A | 11/12/2014 | | 29.00 | 1.00 | ug/L |
| Chloroethane | MW-12A | 5/27/2015 | | 27.00 | 1.00 | ug/L |
| Chloroethane | MW-12A | 11/18/2015 | | 33.00 | 1.00 | ug/L |
| Chloroethane | MW-12A | 6/16/2016 | | 32.00 | 1.00 | ug/L |
| Chloroethane | MW-12A | 11/16/2016 | | 35.00 | 1.00 | ug/L |
| Chloroethane | MW-12A | 5/30/2017 | | 25.00 | 1.00 | ug/L |
| Chloroethane | MW-12A | 11/21/2017 | | 27.00 | 1.00 | ug/L |
| Chloroethane | MW-12A | 5/31/2018 | | 21.00 | 1.00 | ug/L |
| Chloroethane | MW-12A | 10/31/2018 | | 28.00 | 1.00 | ug/L |
| Chloroethane | MW-12A | 5/28/2019 | | 24.00 | 1.00 | ug/L |
| Chloroethane | MW-12A | 10/15/2019 | | 29.00 | 1.00 | ug/L |
| Chloroethane | MW-12A | 6/03/2020 | | 17.50 | 2.50 | ug/L |
| Chloroethane | MW-12A | 10/07/2020 | | 18.30 | 2.50 | ug/L |
| Chloroethane | MW-12A | 5/03/2021 | | 14.20 | 2.50 | ug/L |
| Chloroethane | MW-12A | 11/09/2021 | | 18.80 | 2.50 | ug/L |
| Chloroethane | MW-12A | 5/17/2022 | | 18.40 | 2.50 | ug/L |
| Chloroethane | MW-12A | 10/17/2022 | | 23.90 | 2.50 | ug/L |
| Chloroethane | MW-12A | 6/08/2023 | | 11.80 | 2.50 | ug/L |
| Chloroethane | MW-12A | 10/05/2023 | | 13.80 | 2.50 | ug/L |
| Chloroethane | MW-12A | 5/20/2024 | | 9.20 | 2.50 | ug/L |
| Chloroethane | MW-12A | 10/02/2024 | | 8.82 | 2.50 | ug/L |
| Chloroethane | MW-12A | 5/12/2025 | | 13.70 | 2.50 | ug/L |
| Chloroethane | MW-12A | 10/14/2025 | | 9.75 | 2.50 | ug/L |
| cis-1,2-Dichloroethene | MW-12A | 10/21/1996 | | 2600.00 | 5.00 | ug/L |
| cis-1,2-Dichloroethene | MW-12A | 4/24/2008 | | 170.00 | 2.00 | ug/L |
| cis-1,2-Dichloroethene | MW-12A | 5/21/2008 | | 200.00 | 4.00 | ug/L |
| cis-1,2-Dichloroethene | MW-12A | 6/18/2008 | | 210.00 | 4.00 | ug/L |
| cis-1,2-Dichloroethene | MW-12A | 8/13/2008 | | 190.00 | 4.00 | ug/L |
| cis-1,2-Dichloroethene | MW-12A | 9/24/2008 | | 190.00 | 4.00 | ug/L |
| cis-1,2-Dichloroethene | MW-12A | 4/27/2009 | | 180.00 | 2.00 | ug/L |
| cis-1,2-Dichloroethene | MW-12A | 10/26/2009 | | 150.00 | 2.00 | ug/L |
| cis-1,2-Dichloroethene | MW-12A | 10/26/2009 | | 120.00 | 2.00 | ug/L |
| cis-1,2-Dichloroethene | MW-12A | 12/17/2009 | | 160.00 | 2.00 | ug/L |
| cis-1,2-Dichloroethene | MW-12A | 12/17/2009 | | 170.00 | 2.00 | ug/L |
| cis-1,2-Dichloroethene | MW-12A | 4/13/2010 | | 130.00 | 2.00 | ug/L |
| cis-1,2-Dichloroethene | MW-12A | 7/09/2010 | | 180.00 | 2.00 | ug/L |
| cis-1,2-Dichloroethene | MW-12A | 10/18/2010 | | 160.00 | 2.00 | ug/L |
| cis-1,2-Dichloroethene | MW-12A | 5/09/2011 | | 110.00 | 2.00 | ug/L |
| cis-1,2-Dichloroethene | MW-12A | 10/19/2011 | | 150.00 | 2.00 | ug/L |
| cis-1,2-Dichloroethene | MW-12A | 4/24/2012 | | 170.00 | 2.00 | ug/L |
| cis-1,2-Dichloroethene | MW-12A | 10/25/2012 | | 120.00 | 2.00 | ug/L |
| cis-1,2-Dichloroethene | MW-12A | 5/07/2013 | | 130.00 | 2.00 | ug/L |
| cis-1,2-Dichloroethene | MW-12A | 11/11/2013 | | 12.00 | 1.00 | ug/L |
| cis-1,2-Dichloroethene | MW-12A | 5/13/2014 | | 44.00 | 1.00 | ug/L |
| cis-1,2-Dichloroethene | MW-12A | 11/12/2014 | | 27.00 | 1.00 | ug/L |
| cis-1,2-Dichloroethene | MW-12A | 5/27/2015 | | 55.00 | 1.00 | ug/L |
| cis-1,2-Dichloroethene | MW-12A | 11/18/2015 | | 54.00 | 1.00 | ug/L |
| cis-1,2-Dichloroethene | MW-12A | 6/16/2016 | | 16.00 | 1.00 | ug/L |
| cis-1,2-Dichloroethene | MW-12A | 11/16/2016 | | 19.00 | 1.00 | ug/L |

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

## Table 1

### Historical Volatile Organic Compound Detections

| Constituent | Well | Date | Identifier | Result | Limit | Units |
|---|---|---|---|---|---|---|
| cis-1,2-Dichloroethene | MW-12A | 5/30/2017 | | 12.00 | 1.00 | ug/L |
| cis-1,2-Dichloroethene | MW-12A | 11/21/2017 | | 36.00 | 1.00 | ug/L |
| cis-1,2-Dichloroethene | MW-12A | 5/31/2018 | | 35.00 | 1.00 | ug/L |
| cis-1,2-Dichloroethene | MW-12A | 10/31/2018 | | 42.00 | 1.00 | ug/L |
| cis-1,2-Dichloroethene | MW-12A | 5/28/2019 | | 18.00 | 1.00 | ug/L |
| cis-1,2-Dichloroethene | MW-12A | 10/15/2019 | | 24.00 | 1.00 | ug/L |
| cis-1,2-Dichloroethene | MW-12A | 6/03/2020 | | 23.20 | 1.00 | ug/L |
| cis-1,2-Dichloroethene | MW-12A | 10/07/2020 | | 28.30 | 1.00 | ug/L |
| cis-1,2-Dichloroethene | MW-12A | 5/03/2021 | | 8.42 | 1.00 | ug/L |
| cis-1,2-Dichloroethene | MW-12A | 11/09/2021 | | 19.80 | 1.00 | ug/L |
| cis-1,2-Dichloroethene | MW-12A | 5/17/2022 | | 24.90 | 1.00 | ug/L |
| cis-1,2-Dichloroethene | MW-12A | 10/17/2022 | | 23.60 | 1.00 | ug/L |
| cis-1,2-Dichloroethene | MW-12A | 6/08/2023 | | 16.20 | 1.00 | ug/L |
| cis-1,2-Dichloroethene | MW-12A | 10/05/2023 | | 38.00 | 1.00 | ug/L |
| cis-1,2-Dichloroethene | MW-12A | 5/20/2024 | | 13.90 | 1.00 | ug/L |
| cis-1,2-Dichloroethene | MW-12A | 10/02/2024 | | 22.60 | 1.00 | ug/L |
| cis-1,2-Dichloroethene | MW-12A | 5/12/2025 | | 30.20 | 1.00 | ug/L |
| cis-1,2-Dichloroethene | MW-12A | 10/14/2025 | | 26.50 | 1.00 | ug/L |
| Methylene chloride | MW-12A | 10/21/1996 | | 32.0 | 5.0 | ug/L |
| Methylene chloride | MW-12A | 4/24/2008 | | 2.4 | 2.0 | ug/L |
| Methylene chloride | MW-12A | 10/26/2009 | | 1.5 | 1.0 | ug/L |
| Methylene chloride | MW-12A | 10/18/2010 | | 2.3 | 2.0 | ug/L |
| Methylene chloride | MW-12A | 5/09/2011 | | 1.2 | 1.0 | ug/L |
| Methylene chloride | MW-12A | 10/19/2011 | | 1.1 | 1.0 | ug/L |
| Methylene chloride | MW-12A | 4/24/2012 | | 2.2 | 2.0 | ug/L |
| Methylene chloride | MW-12A | 10/25/2012 | | 2.1 | 2.0 | ug/L |
| Methylene chloride | MW-12A | 5/07/2013 | | 2.1 | 2.0 | ug/L |
| Methylene chloride | MW-12A | 5/13/2014 | | 1.3 | 1.0 | ug/L |
| Methylene chloride | MW-12A | 11/12/2014 | | 1.5 | 1.0 | ug/L |
| Toluene | MW-12A | 4/13/2010 | | 2.4 | 2.0 | ug/L |
| Toluene | MW-12A | 11/12/2014 | | 1.0 | 1.0 | ug/L |
| Total Xylenes | MW-12A | 10/21/1996 | | 17 | 10 | ug/L |
| trans-1,2-Dichloroethene | MW-12A | 10/21/1996 | | 7.70 | 5.00 | ug/L |
| trans-1,2-Dichloroethene | MW-12A | 4/24/2008 | | 9.70 | 2.00 | ug/L |
| trans-1,2-Dichloroethene | MW-12A | 5/21/2008 | | 9.40 | 1.00 | ug/L |
| trans-1,2-Dichloroethene | MW-12A | 6/18/2008 | | 8.90 | 4.00 | ug/L |
| trans-1,2-Dichloroethene | MW-12A | 8/13/2008 | | 8.00 | 4.00 | ug/L |
| trans-1,2-Dichloroethene | MW-12A | 9/24/2008 | | 8.00 | 4.00 | ug/L |
| trans-1,2-Dichloroethene | MW-12A | 4/27/2009 | | 8.80 | 2.00 | ug/L |
| trans-1,2-Dichloroethene | MW-12A | 10/26/2009 | | 8.30 | 1.00 | ug/L |
| trans-1,2-Dichloroethene | MW-12A | 10/26/2009 | | 8.00 | 1.00 | ug/L |
| trans-1,2-Dichloroethene | MW-12A | 12/17/2009 | | 6.80 | 2.00 | ug/L |
| trans-1,2-Dichloroethene | MW-12A | 12/17/2009 | | 7.70 | 2.00 | ug/L |
| trans-1,2-Dichloroethene | MW-12A | 4/13/2010 | | 7.30 | 2.00 | ug/L |
| trans-1,2-Dichloroethene | MW-12A | 7/09/2010 | | 8.80 | 2.00 | ug/L |
| trans-1,2-Dichloroethene | MW-12A | 10/18/2010 | | 6.80 | 2.00 | ug/L |
| trans-1,2-Dichloroethene | MW-12A | 5/09/2011 | | 7.90 | 1.00 | ug/L |
| trans-1,2-Dichloroethene | MW-12A | 10/19/2011 | | 8.40 | 1.00 | ug/L |
| trans-1,2-Dichloroethene | MW-12A | 4/24/2012 | | 11.00 | 2.00 | ug/L |
| trans-1,2-Dichloroethene | MW-12A | 10/25/2012 | | 7.20 | 2.00 | ug/L |
| trans-1,2-Dichloroethene | MW-12A | 5/07/2013 | | 9.00 | 2.00 | ug/L |
| trans-1,2-Dichloroethene | MW-12A | 11/11/2013 | | 2.70 | 1.00 | ug/L |
| trans-1,2-Dichloroethene | MW-12A | 5/13/2014 | | 4.80 | 1.00 | ug/L |

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

## Table 1

### Historical Volatile Organic Compound Detections

| Constituent | Well | Date | Identifier | Result | Limit | Units |
|---|---|---|---|---|---|---|
| trans-1,2-Dichloroethene | MW-12A | 11/12/2014 | | 7.20 | 1.00 | ug/L |
| trans-1,2-Dichloroethene | MW-12A | 5/27/2015 | | 8.80 | 1.00 | ug/L |
| trans-1,2-Dichloroethene | MW-12A | 11/18/2015 | | 8.40 | 1.00 | ug/L |
| trans-1,2-Dichloroethene | MW-12A | 6/16/2016 | | 5.30 | 1.00 | ug/L |
| trans-1,2-Dichloroethene | MW-12A | 11/16/2016 | | 5.30 | 1.00 | ug/L |
| trans-1,2-Dichloroethene | MW-12A | 5/30/2017 | | 3.50 | 1.00 | ug/L |
| trans-1,2-Dichloroethene | MW-12A | 11/21/2017 | | 5.00 | 1.00 | ug/L |
| trans-1,2-Dichloroethene | MW-12A | 5/31/2018 | | 5.20 | 1.00 | ug/L |
| trans-1,2-Dichloroethene | MW-12A | 10/31/2018 | | 6.40 | 1.00 | ug/L |
| trans-1,2-Dichloroethene | MW-12A | 5/28/2019 | | 4.40 | 1.00 | ug/L |
| trans-1,2-Dichloroethene | MW-12A | 10/15/2019 | | 4.40 | 1.00 | ug/L |
| trans-1,2-Dichloroethene | MW-12A | 6/03/2020 | | 4.95 | 1.00 | ug/L |
| trans-1,2-Dichloroethene | MW-12A | 10/07/2020 | | 4.34 | 1.00 | ug/L |
| trans-1,2-Dichloroethene | MW-12A | 5/03/2021 | | 2.86 | 1.00 | ug/L |
| trans-1,2-Dichloroethene | MW-12A | 11/09/2021 | | 3.78 | 1.00 | ug/L |
| trans-1,2-Dichloroethene | MW-12A | 5/17/2022 | | 4.32 | 1.00 | ug/L |
| trans-1,2-Dichloroethene | MW-12A | 10/17/2022 | | 4.39 | 1.00 | ug/L |
| trans-1,2-Dichloroethene | MW-12A | 6/08/2023 | | 2.27 | 1.00 | ug/L |
| trans-1,2-Dichloroethene | MW-12A | 10/05/2023 | | 4.18 | 1.00 | ug/L |
| trans-1,2-Dichloroethene | MW-12A | 5/20/2024 | | 1.95 | 1.00 | ug/L |
| trans-1,2-Dichloroethene | MW-12A | 10/02/2024 | | 2.57 | 1.00 | ug/L |
| trans-1,2-Dichloroethene | MW-12A | 5/12/2025 | | 3.88 | 1.00 | ug/L |
| trans-1,2-Dichloroethene | MW-12A | 10/14/2025 | | 3.18 | 1.00 | ug/L |
| Trichloroethene | MW-12A | 5/31/1996 | | 94.0 | 5.0 | ug/L |
| Trichloroethene | MW-12A | 10/21/1996 | | 130.0 | 5.0 | ug/L |
| Trichloroethene | MW-12A | 5/13/1998 | | 91.0 | 3.0 | ug/L |
| Trichloroethene | MW-12A | 5/13/1998 | | 9.1 | 3.2 | ug/L |
| Trichloroethene | MW-12A | 10/08/1998 | | 14.0 | 3.0 | ug/L |
| Trichloroethene | MW-12A | 4/29/1999 | | 15.0 | 3.0 | ug/L |
| Trichloroethene | MW-12A | 7/26/1999 | | 17.0 | 1.0 | ug/L |
| Trichloroethene | MW-12A | 4/27/2000 | | 15.0 | 1.0 | ug/L |
| Trichloroethene | MW-12A | 10/13/2000 | | 16.0 | 1.0 | ug/L |
| Trichloroethene | MW-12A | 4/27/2001 | | 12.0 | 1.0 | ug/L |
| Trichloroethene | MW-12A | 10/11/2001 | | 14.0 | 1.0 | ug/L |
| Trichloroethene | MW-12A | 4/22/2002 | | 12.0 | 1.0 | ug/L |
| Trichloroethene | MW-12A | 10/02/2002 | | 9.0 | 1.0 | ug/L |
| Trichloroethene | MW-12A | 4/24/2003 | | 7.0 | 1.0 | ug/L |
| Trichloroethene | MW-12A | 10/15/2003 | | 4.0 | 1.0 | ug/L |
| Trichloroethene | MW-12A | 4/27/2004 | | 3.0 | 1.0 | ug/L |
| Trichloroethene | MW-12A | 10/05/2004 | | 4.0 | 2.0 | ug/L |
| Trichloroethene | MW-12A | 4/20/2005 | | 3.0 | 1.0 | ug/L |
| Trichloroethene | MW-12A | 10/05/2006 | | 2.0 | 1.0 | ug/L |
| Trichloroethene | MW-12A | 4/18/2007 | | 2.0 | 1.0 | ug/L |
| Trichloroethene | MW-12A | 10/03/2007 | | 1.0 | 1.0 | ug/L |
| Trichloroethene | MW-12A | 5/21/2008 | | 1.2 | 1.0 | ug/L |
| Vinyl chloride | MW-12A | 10/21/1996 | | 640.00 | 2.00 | ug/L |
| Vinyl chloride | MW-12A | 4/24/2008 | | 62.00 | 2.00 | ug/L |
| Vinyl chloride | MW-12A | 5/21/2008 | | 72.00 | 1.00 | ug/L |
| Vinyl chloride | MW-12A | 6/18/2008 | | 72.00 | 4.00 | ug/L |
| Vinyl chloride | MW-12A | 8/13/2008 | | 55.00 | 4.00 | ug/L |
| Vinyl chloride | MW-12A | 9/24/2008 | | 52.00 | 4.00 | ug/L |
| Vinyl chloride | MW-12A | 4/27/2009 | | 68.00 | 2.00 | ug/L |
| Vinyl chloride | MW-12A | 10/26/2009 | | 67.00 | 1.00 | ug/L |

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

## Table 1

### Historical Volatile Organic Compound Detections

| Constituent | Well | Date | Identifier | Result | Limit | Units |
|---|---|---|---|---|---|---|
| Vinyl chloride | MW-12A | 10/26/2009 | | 92.00 | 1.00 | ug/L |
| Vinyl chloride | MW-12A | 12/17/2009 | | 29.00 | 2.00 | ug/L |
| Vinyl chloride | MW-12A | 12/17/2009 | | 39.00 | 2.00 | ug/L |
| Vinyl chloride | MW-12A | 4/13/2010 | | 79.00 | 2.00 | ug/L |
| Vinyl chloride | MW-12A | 7/09/2010 | | 49.00 | 2.00 | ug/L |
| Vinyl chloride | MW-12A | 10/18/2010 | | 40.00 | 2.00 | ug/L |
| Vinyl chloride | MW-12A | 5/09/2011 | | 41.00 | 1.00 | ug/L |
| Vinyl chloride | MW-12A | 10/19/2011 | | 29.00 | 1.00 | ug/L |
| Vinyl chloride | MW-12A | 4/24/2012 | | 56.00 | 2.00 | ug/L |
| Vinyl chloride | MW-12A | 10/25/2012 | | 81.00 | 2.00 | ug/L |
| Vinyl chloride | MW-12A | 5/07/2013 | | 68.00 | 2.00 | ug/L |
| Vinyl chloride | MW-12A | 11/11/2013 | | 43.00 | 1.00 | ug/L |
| Vinyl chloride | MW-12A | 5/13/2014 | | 73.00 | 1.00 | ug/L |
| Vinyl chloride | MW-12A | 11/12/2014 | | 19.00 | 1.00 | ug/L |
| Vinyl chloride | MW-12A | 5/27/2015 | | 33.00 | 1.00 | ug/L |
| Vinyl chloride | MW-12A | 11/18/2015 | | 30.00 | 1.00 | ug/L |
| Vinyl chloride | MW-12A | 6/16/2016 | | 34.00 | 1.00 | ug/L |
| Vinyl chloride | MW-12A | 11/16/2016 | | 56.00 | 1.00 | ug/L |
| Vinyl chloride | MW-12A | 5/30/2017 | | 49.00 | 1.00 | ug/L |
| Vinyl chloride | MW-12A | 11/21/2017 | | 52.00 | 1.00 | ug/L |
| Vinyl chloride | MW-12A | 5/31/2018 | | 44.00 | 1.00 | ug/L |
| Vinyl chloride | MW-12A | 10/31/2018 | | 34.00 | 1.00 | ug/L |
| Vinyl chloride | MW-12A | 5/28/2019 | | 36.00 | 1.00 | ug/L |
| Vinyl chloride | MW-12A | 10/15/2019 | | 28.00 | 1.00 | ug/L |
| Vinyl chloride | MW-12A | 6/03/2020 | | 36.00 | 1.00 | ug/L |
| Vinyl chloride | MW-12A | 10/07/2020 | | 24.30 | 1.00 | ug/L |
| Vinyl chloride | MW-12A | 5/03/2021 | | 20.80 | 1.00 | ug/L |
| Vinyl chloride | MW-12A | 11/09/2021 | | 29.40 | 1.00 | ug/L |
| Vinyl chloride | MW-12A | 5/17/2022 | | 18.40 | 1.00 | ug/L |
| Vinyl chloride | MW-12A | 10/17/2022 | | 34.40 | 1.00 | ug/L |
| Vinyl chloride | MW-12A | 6/08/2023 | | 24.30 | 1.00 | ug/L |
| Vinyl chloride | MW-12A | 10/05/2023 | | 22.80 | 1.00 | ug/L |
| Vinyl chloride | MW-12A | 5/20/2024 | | 9.67 | 1.00 | ug/L |
| Vinyl chloride | MW-12A | 10/02/2024 | | 16.40 | 1.00 | ug/L |
| Vinyl chloride | MW-12A | 5/12/2025 | | 25.10 | 1.00 | ug/L |
| Vinyl chloride | MW-12A | 10/14/2025 | | 20.40 | 1.00 | ug/L |
| Acetone | MW-13A | 11/18/2015 | | 65.0 | 10.0 | ug/L |
| Acetone | MW-13A | 6/08/2023 | | 92.9 | 25.0 | ug/L |
| Benzene | MW-13A | 3/27/1998 | | 4.2 | 3.1 | ug/L |
| Bromomethane | MW-13A | 5/21/2008 | | 1.1 | 1.0 | ug/L |
| 1,1-Dichloroethane | MW-19A | 5/21/2008 | | 2.30 | 1.00 | ug/L |
| 1,1-Dichloroethane | MW-19A | 6/18/2008 | | 4.10 | 1.00 | ug/L |
| 1,1-Dichloroethane | MW-19A | 8/13/2008 | | 2.70 | 1.00 | ug/L |
| 1,1-Dichloroethane | MW-19A | 9/24/2008 | | 1.50 | 1.00 | ug/L |
| 1,1-Dichloroethane | MW-19A | 4/27/2009 | | 2.20 | 1.00 | ug/L |
| 1,1-Dichloroethane | MW-19A | 10/26/2009 | | 1.40 | 1.00 | ug/L |
| 1,1-Dichloroethane | MW-19A | 10/26/2009 | | 1.30 | 1.00 | ug/L |
| 1,1-Dichloroethane | MW-19A | 4/13/2010 | | 1.40 | 1.00 | ug/L |
| 1,1-Dichloroethane | MW-19A | 7/09/2010 | | 3.00 | 1.00 | ug/L |
| 1,1-Dichloroethane | MW-19A | 10/18/2010 | | 1.30 | 1.00 | ug/L |
| 1,1-Dichloroethane | MW-19A | 5/09/2011 | | 1.80 | 1.00 | ug/L |
| 1,1-Dichloroethane | MW-19A | 5/07/2013 | | 1.80 | 1.00 | ug/L |
| 1,1-Dichloroethane | MW-19A | 11/11/2013 | | 1.40 | 1.00 | ug/L |

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

## Table 1

### Historical Volatile Organic Compound Detections

| Constituent | Well | Date | Identifier | Result | Limit | Units |
|---|---|---|---|---|---|---|
| 1,1-Dichloroethane | MW-19A | 5/30/2017 | | 1.80 | 1.00 | ug/L |
| 1,1-Dichloroethane | MW-19A | 5/31/2018 | | 2.40 | 1.00 | ug/L |
| 1,1-Dichloroethane | MW-19A | 5/28/2019 | | 1.00 | 1.00 | ug/L |
| 1,1-Dichloroethane | MW-19A | 6/03/2020 | | 1.36 | 1.00 | ug/L |
| Bromomethane | MW-19A | 5/21/2008 | | 1.5 | 1.0 | ug/L |
| Chloroethane | MW-19A | 5/21/2008 | | 3.6 | 1.0 | ug/L |
| Chloroethane | MW-19A | 6/18/2008 | | 4.5 | 1.0 | ug/L |
| Chloroethane | MW-19A | 8/13/2008 | | 5.0 | 1.0 | ug/L |
| Chloroethane | MW-19A | 4/27/2009 | | 3.1 | 1.0 | ug/L |
| Chloroethane | MW-19A | 10/26/2009 | | 2.9 | 1.0 | ug/L |
| Chloroethane | MW-19A | 10/26/2009 | | 3.5 | 1.0 | ug/L |
| Chloroethane | MW-19A | 12/17/2009 | | 1.6 | 1.0 | ug/L |
| Chloroethane | MW-19A | 12/17/2009 | | 1.9 | 1.0 | ug/L |
| Chloroethane | MW-19A | 4/13/2010 | | 4.0 | 1.0 | ug/L |
| Chloroethane | MW-19A | 7/09/2010 | | 2.2 | 1.0 | ug/L |
| Chloroethane | MW-19A | 10/18/2010 | | 1.4 | 1.0 | ug/L |
| Chloroethane | MW-19A | 5/09/2011 | | 1.4 | 1.0 | ug/L |
| Chloroethane | MW-19A | 4/24/2012 | | 1.1 | 1.0 | ug/L |
| Chloroethane | MW-19A | 5/07/2013 | | 1.9 | 1.0 | ug/L |
| cis-1,2-Dichloroethene | MW-19A | 5/21/2008 | | 1.2 | 1.0 | ug/L |
| cis-1,2-Dichloroethene | MW-19A | 6/18/2008 | | 3.6 | 1.0 | ug/L |
| cis-1,2-Dichloroethene | MW-19A | 8/13/2008 | | 2.5 | 1.0 | ug/L |
| cis-1,2-Dichloroethene | MW-19A | 7/09/2010 | | 1.2 | 1.0 | ug/L |
| cis-1,2-Dichloroethene | MW-19A | 5/31/2018 | | 1.0 | 1.0 | ug/L |
| Toluene | MW-19A | 8/27/1996 | | 12.0 | 5.0 | ug/L |
| Toluene | MW-19A | 10/09/1997 | | 3.5 | 2.5 | ug/L |
| Vinyl chloride | MW-19A | 6/18/2008 | | 2.3 | 1.0 | ug/L |
| Vinyl chloride | MW-19A | 8/13/2008 | | 1.2 | 1.0 | ug/L |
| Bromomethane | MW-21A | 5/21/2008 | | 1.6 | 1.0 | ug/L |
| 1,2-Dichlorobenzene | MW-23A | 7/09/2010 | | 10.0 | 9.7 | ug/L |
| Acetone | MW-23A | 5/28/2019 | | 71.0 | 10.0 | ug/L |
| Acetone | MW-23A | 10/14/2025 | | 40.8 | 25.0 | ug/L |
| Benzene | MW-23A | 11/18/2015 | | 2.30 | 1.00 | ug/L |
| Benzene | MW-23A | 6/16/2016 | | 2.10 | 1.00 | ug/L |
| Benzene | MW-23A | 11/16/2016 | | 1.30 | 1.00 | ug/L |
| Benzene | MW-23A | 5/31/2018 | | 1.60 | 1.00 | ug/L |
| Benzene | MW-23A | 5/28/2019 | | 3.50 | 1.00 | ug/L |
| Benzene | MW-23A | 10/15/2019 | | 1.40 | 1.00 | ug/L |
| Benzene | MW-23A | 10/02/2024 | | 1.15 | 1.00 | ug/L |
| cis-1,2-Dichloroethene | MW-23A | 4/27/2009 | | 3.60 | 1.00 | ug/L |
| cis-1,2-Dichloroethene | MW-23A | 10/26/2009 | | 4.50 | 1.00 | ug/L |
| cis-1,2-Dichloroethene | MW-23A | 12/17/2009 | | 3.90 | 1.00 | ug/L |
| cis-1,2-Dichloroethene | MW-23A | 4/13/2010 | | 2.90 | 1.00 | ug/L |
| cis-1,2-Dichloroethene | MW-23A | 5/18/2010 | | 2.60 | 1.00 | ug/L |
| cis-1,2-Dichloroethene | MW-23A | 6/21/2010 | | 4.10 | 1.00 | ug/L |
| cis-1,2-Dichloroethene | MW-23A | 7/09/2010 | | 4.50 | 1.00 | ug/L |
| cis-1,2-Dichloroethene | MW-23A | 8/18/2010 | | 3.60 | 1.00 | ug/L |
| cis-1,2-Dichloroethene | MW-23A | 10/18/2010 | | 5.00 | 1.00 | ug/L |
| cis-1,2-Dichloroethene | MW-23A | 5/09/2011 | | 1.50 | 1.00 | ug/L |
| cis-1,2-Dichloroethene | MW-23A | 10/19/2011 | | 9.00 | 1.00 | ug/L |
| cis-1,2-Dichloroethene | MW-23A | 4/24/2012 | | 7.80 | 1.00 | ug/L |
| cis-1,2-Dichloroethene | MW-23A | 10/25/2012 | | 6.40 | 1.00 | ug/L |
| cis-1,2-Dichloroethene | MW-23A | 5/07/2013 | | 4.20 | 1.00 | ug/L |

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

## Table 1

### Historical Volatile Organic Compound Detections

| Constituent | Well | Date | Identifier | Result | Limit | Units |
|---|---|---|---|---|---|---|
| cis-1,2-Dichloroethene | MW-23A | 11/11/2013 | | 4.80 | 1.00 | ug/L |
| cis-1,2-Dichloroethene | MW-23A | 5/13/2014 | | 4.80 | 1.00 | ug/L |
| cis-1,2-Dichloroethene | MW-23A | 11/12/2014 | | 4.80 | 1.00 | ug/L |
| cis-1,2-Dichloroethene | MW-23A | 5/27/2015 | | 5.10 | 1.00 | ug/L |
| cis-1,2-Dichloroethene | MW-23A | 11/18/2015 | | 4.80 | 1.00 | ug/L |
| cis-1,2-Dichloroethene | MW-23A | 6/16/2016 | | 1.90 | 1.00 | ug/L |
| cis-1,2-Dichloroethene | MW-23A | 11/16/2016 | | 3.20 | 1.00 | ug/L |
| cis-1,2-Dichloroethene | MW-23A | 5/30/2017 | | 2.80 | 1.00 | ug/L |
| cis-1,2-Dichloroethene | MW-23A | 11/21/2017 | | 3.70 | 1.00 | ug/L |
| cis-1,2-Dichloroethene | MW-23A | 5/31/2018 | | 2.30 | 1.00 | ug/L |
| cis-1,2-Dichloroethene | MW-23A | 10/31/2018 | | 3.40 | 1.00 | ug/L |
| cis-1,2-Dichloroethene | MW-23A | 5/28/2019 | | 2.00 | 1.00 | ug/L |
| cis-1,2-Dichloroethene | MW-23A | 10/15/2019 | | 3.30 | 1.00 | ug/L |
| cis-1,2-Dichloroethene | MW-23A | 6/03/2020 | | 2.64 | 1.00 | ug/L |
| cis-1,2-Dichloroethene | MW-23A | 10/07/2020 | | 3.93 | 1.00 | ug/L |
| cis-1,2-Dichloroethene | MW-23A | 5/03/2021 | | 3.15 | 1.00 | ug/L |
| cis-1,2-Dichloroethene | MW-23A | 11/09/2021 | | 3.96 | 1.00 | ug/L |
| cis-1,2-Dichloroethene | MW-23A | 5/17/2022 | | 3.18 | 1.00 | ug/L |
| cis-1,2-Dichloroethene | MW-23A | 10/17/2022 | | 4.15 | 1.00 | ug/L |
| cis-1,2-Dichloroethene | MW-23A | 6/08/2023 | | 2.06 | 1.00 | ug/L |
| cis-1,2-Dichloroethene | MW-23A | 10/05/2023 | | 2.63 | 1.00 | ug/L |
| cis-1,2-Dichloroethene | MW-23A | 5/20/2024 | | 1.16 | 1.00 | ug/L |
| cis-1,2-Dichloroethene | MW-23A | 10/02/2024 | | 2.10 | 1.00 | ug/L |
| cis-1,2-Dichloroethene | MW-23A | 5/12/2025 | | 1.35 | 1.00 | ug/L |
| Trichloroethene | MW-23A | 10/04/1999 | | 81.00 | 1.00 | ug/L |
| Trichloroethene | MW-23A | 1/19/2000 | | 65.00 | 1.00 | ug/L |
| Trichloroethene | MW-23A | 4/27/2000 | | 48.00 | 1.00 | ug/L |
| Trichloroethene | MW-23A | 7/26/2000 | | 98.00 | 1.00 | ug/L |
| Trichloroethene | MW-23A | 7/26/2000 | | 96.00 | 1.00 | ug/L |
| Trichloroethene | MW-23A | 10/13/2000 | | 88.00 | 1.00 | ug/L |
| Trichloroethene | MW-23A | 1/31/2001 | | 69.00 | 1.00 | ug/L |
| Trichloroethene | MW-23A | 4/27/2001 | | 47.00 | 1.00 | ug/L |
| Trichloroethene | MW-23A | 7/26/2001 | | 75.00 | 1.00 | ug/L |
| Trichloroethene | MW-23A | 10/11/2001 | | 100.00 | 1.00 | ug/L |
| Trichloroethene | MW-23A | 4/22/2002 | | 83.00 | 1.00 | ug/L |
| Trichloroethene | MW-23A | 10/02/2002 | | 120.00 | 1.00 | ug/L |
| Trichloroethene | MW-23A | 4/24/2003 | | 77.00 | 1.00 | ug/L |
| Trichloroethene | MW-23A | 10/15/2003 | | 72.00 | 1.00 | ug/L |
| Trichloroethene | MW-23A | 4/27/2004 | | 47.00 | 1.00 | ug/L |
| Trichloroethene | MW-23A | 10/05/2004 | | 30.00 | 1.00 | ug/L |
| Trichloroethene | MW-23A | 4/20/2005 | | 15.00 | 1.00 | ug/L |
| Trichloroethene | MW-23A | 10/05/2005 | | 21.00 | 1.00 | ug/L |
| Trichloroethene | MW-23A | 10/05/2006 | | 19.00 | 1.00 | ug/L |
| Trichloroethene | MW-23A | 4/18/2007 | | 4.00 | 1.00 | ug/L |
| Trichloroethene | MW-23A | 10/03/2007 | | 17.00 | 1.00 | ug/L |
| Trichloroethene | MW-23A | 4/27/2009 | | 9.80 | 1.00 | ug/L |
| Trichloroethene | MW-23A | 10/26/2009 | | 8.20 | 1.00 | ug/L |
| Trichloroethene | MW-23A | 12/17/2009 | | 11.00 | 1.00 | ug/L |
| Trichloroethene | MW-23A | 4/13/2010 | | 7.60 | 1.00 | ug/L |
| Trichloroethene | MW-23A | 5/18/2010 | | 7.00 | 1.00 | ug/L |
| Trichloroethene | MW-23A | 6/21/2010 | | 10.00 | 1.00 | ug/L |
| Trichloroethene | MW-23A | 7/09/2010 | | 10.00 | 1.00 | ug/L |
| Trichloroethene | MW-23A | 8/18/2010 | | 8.80 | 1.00 | ug/L |

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

## Table 1

### Historical Volatile Organic Compound Detections

| Constituent | Well | Date | Identifier | Result | Limit | Units |
|---|---|---|---|---|---|---|
| Trichloroethene | MW-23A | 10/18/2010 | | 12.00 | 1.00 | ug/L |
| Trichloroethene | MW-23A | 5/09/2011 | | 4.50 | 1.00 | ug/L |
| Trichloroethene | MW-23A | 10/19/2011 | | 18.00 | 1.00 | ug/L |
| Trichloroethene | MW-23A | 4/24/2012 | | 14.00 | 1.00 | ug/L |
| Trichloroethene | MW-23A | 10/25/2012 | | 13.00 | 1.00 | ug/L |
| Trichloroethene | MW-23A | 5/07/2013 | | 10.00 | 1.00 | ug/L |
| Trichloroethene | MW-23A | 11/11/2013 | | 13.00 | 1.00 | ug/L |
| Trichloroethene | MW-23A | 5/13/2014 | | 10.00 | 1.00 | ug/L |
| Trichloroethene | MW-23A | 11/12/2014 | | 13.00 | 1.00 | ug/L |
| Trichloroethene | MW-23A | 5/27/2015 | | 13.00 | 1.00 | ug/L |
| Trichloroethene | MW-23A | 11/18/2015 | | 15.00 | 1.00 | ug/L |
| Trichloroethene | MW-23A | 6/16/2016 | | 8.10 | 1.00 | ug/L |
| Trichloroethene | MW-23A | 11/16/2016 | | 10.00 | 1.00 | ug/L |
| Trichloroethene | MW-23A | 5/30/2017 | | 6.70 | 1.00 | ug/L |
| Trichloroethene | MW-23A | 11/21/2017 | | 8.80 | 1.00 | ug/L |
| Trichloroethene | MW-23A | 5/31/2018 | | 3.70 | 1.00 | ug/L |
| Trichloroethene | MW-23A | 10/31/2018 | | 6.50 | 1.00 | ug/L |
| Trichloroethene | MW-23A | 5/28/2019 | | 3.40 | 1.00 | ug/L |
| Trichloroethene | MW-23A | 10/15/2019 | | 5.30 | 1.00 | ug/L |
| Trichloroethene | MW-23A | 6/03/2020 | | 4.38 | 1.00 | ug/L |
| Trichloroethene | MW-23A | 10/07/2020 | | 5.06 | 1.00 | ug/L |
| Trichloroethene | MW-23A | 5/03/2021 | | 4.49 | 1.00 | ug/L |
| Trichloroethene | MW-23A | 11/09/2021 | | 6.41 | 1.00 | ug/L |
| Trichloroethene | MW-23A | 5/17/2022 | | 6.19 | 1.00 | ug/L |
| Trichloroethene | MW-23A | 10/17/2022 | | 7.01 | 1.00 | ug/L |
| Trichloroethene | MW-23A | 6/08/2023 | | 3.88 | 1.00 | ug/L |
| Trichloroethene | MW-23A | 10/05/2023 | | 5.05 | 1.00 | ug/L |
| Trichloroethene | MW-23A | 5/20/2024 | | 2.85 | 1.00 | ug/L |
| Trichloroethene | MW-23A | 10/02/2024 | | 4.07 | 1.00 | ug/L |
| Trichloroethene | MW-23A | 5/12/2025 | | 3.02 | 1.00 | ug/L |
| Trichloroethene | MW-23A | 10/14/2025 | | 2.69 | 1.00 | ug/L |
| Benzene | MW-37A | 5/30/2017 | | 1.3 | 1.0 | ug/L |
| Chloroethane | MW-37A | 10/26/2009 | | 3.00 | 1.00 | ug/L |
| Chloroethane | MW-37A | 11/23/2009 | | 9.80 | 1.00 | ug/L |
| Chloroethane | MW-37A | 12/17/2009 | | 2.90 | 1.00 | ug/L |
| Chloroethane | MW-37A | 4/13/2010 | | 7.90 | 1.00 | ug/L |
| Chloroethane | MW-37A | 5/18/2010 | | 3.60 | 1.00 | ug/L |
| Chloroethane | MW-37A | 6/21/2010 | | 5.20 | 1.00 | ug/L |
| Chloroethane | MW-37A | 7/09/2010 | | 4.30 | 1.00 | ug/L |
| Chloroethane | MW-37A | 8/18/2010 | | 4.00 | 1.00 | ug/L |
| Chloroethane | MW-37A | 10/18/2010 | | 3.60 | 1.00 | ug/L |
| Chloroethane | MW-37A | 5/09/2011 | | 4.40 | 1.00 | ug/L |
| Chloroethane | MW-37A | 10/19/2011 | | 4.10 | 1.00 | ug/L |
| Chloroethane | MW-37A | 4/24/2012 | | 6.40 | 1.00 | ug/L |
| Chloroethane | MW-37A | 10/25/2012 | | 4.20 | 1.00 | ug/L |
| Chloroethane | MW-37A | 5/07/2013 | | 5.10 | 1.00 | ug/L |
| Chloroethane | MW-37A | 11/11/2013 | | 5.30 | 1.00 | ug/L |
| Chloroethane | MW-37A | 5/13/2014 | | 3.60 | 1.00 | ug/L |
| Chloroethane | MW-37A | 5/27/2015 | | 5.60 | 1.00 | ug/L |
| Chloroethane | MW-37A | 11/18/2015 | | 5.00 | 1.00 | ug/L |
| Chloroethane | MW-37A | 6/16/2016 | | 6.40 | 1.00 | ug/L |
| Chloroethane | MW-37A | 11/16/2016 | | 5.30 | 1.00 | ug/L |
| Chloroethane | MW-37A | 5/30/2017 | | 5.10 | 1.00 | ug/L |

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

## Table 1

### Historical Volatile Organic Compound Detections

| Constituent | Well | Date | Identifier | Result | Limit | Units |
|---|---|---|---|---|---|---|
| Chloroethane | MW-37A | 11/21/2017 | | 2.70 | 1.00 | ug/L |
| Chloroethane | MW-37A | 5/31/2018 | | 4.40 | 4.00 | ug/L |
| Chloroethane | MW-37A | 10/31/2018 | | 5.20 | 5.00 | ug/L |
| Chloroethane | MW-37A | 6/03/2020 | | 3.00 | 2.50 | ug/L |
| Chloroethane | MW-37A | 10/07/2020 | | 4.12 | 2.50 | ug/L |
| Chloroethane | MW-37A | 5/03/2021 | | 5.32 | 2.50 | ug/L |
| Chloroethane | MW-37A | 11/09/2021 | | 7.70 | 2.50 | ug/L |
| Chloroethane | MW-37A | 5/17/2022 | | 5.62 | 2.50 | ug/L |
| Chloroethane | MW-37A | 10/17/2022 | | 7.07 | 2.50 | ug/L |
| Chloroethane | MW-37A | 6/08/2023 | | 4.51 | 2.50 | ug/L |
| Chloroethane | MW-37A | 10/05/2023 | | 4.02 | 2.50 | ug/L |
| Chloroethane | MW-37A | 5/20/2024 | | 3.18 | 2.50 | ug/L |
| Chloroethane | MW-37A | 10/02/2024 | | 2.63 | 2.50 | ug/L |
| Chloroethane | MW-37A | 5/12/2025 | | 3.41 | 2.50 | ug/L |
| Chloroethane | MW-37A | 10/14/2025 | | 2.84 | 2.50 | ug/L |
| Methylene chloride | MW-37A | 5/31/2018 | | 6.9 | 4.0 | ug/L |
| Vinyl chloride | MW-37A | 4/13/2010 | | 1.8 | 1.0 | ug/L |
| Vinyl chloride | MW-37A | 5/18/2010 | | 1.0 | 1.0 | ug/L |
| Vinyl chloride | MW-37A | 5/09/2011 | | 2.5 | 1.0 | ug/L |
| Vinyl chloride | MW-37A | 4/24/2012 | | 2.6 | 1.0 | ug/L |
| Vinyl chloride | MW-37A | 5/13/2014 | | 1.3 | 1.0 | ug/L |
| 1,1-Dichloroethane | MW-38A | 4/13/2010 | | 3.50 | 1.00 | ug/L |
| 1,1-Dichloroethane | MW-38A | 5/18/2010 | | 3.70 | 1.00 | ug/L |
| 1,1-Dichloroethane | MW-38A | 6/21/2010 | | 2.00 | 1.00 | ug/L |
| 1,1-Dichloroethane | MW-38A | 7/09/2010 | | 1.70 | 1.00 | ug/L |
| 1,1-Dichloroethane | MW-38A | 8/18/2010 | | 1.40 | 1.00 | ug/L |
| 1,1-Dichloroethane | MW-38A | 5/09/2011 | | 3.40 | 1.00 | ug/L |
| 1,1-Dichloroethane | MW-38A | 10/19/2011 | | 1.20 | 1.00 | ug/L |
| 1,1-Dichloroethane | MW-38A | 5/07/2013 | | 5.90 | 1.00 | ug/L |
| 1,1-Dichloroethane | MW-38A | 11/11/2013 | | 1.30 | 1.00 | ug/L |
| 1,1-Dichloroethane | MW-38A | 5/13/2014 | | 1.50 | 1.00 | ug/L |
| 1,1-Dichloroethane | MW-38A | 5/27/2015 | | 1.10 | 1.00 | ug/L |
| 1,1-Dichloroethane | MW-38A | 11/18/2015 | | 1.30 | 1.00 | ug/L |
| 1,1-Dichloroethane | MW-38A | 11/21/2017 | | 1.20 | 1.00 | ug/L |
| 1,1-Dichloroethane | MW-38A | 5/31/2018 | | 1.50 | 1.00 | ug/L |
| 1,1-Dichloroethane | MW-38A | 10/31/2018 | | 1.80 | 1.00 | ug/L |
| 1,1-Dichloroethane | MW-38A | 6/03/2020 | | 2.26 | 1.00 | ug/L |
| 1,1-Dichloroethane | MW-38A | 10/07/2020 | | 1.80 | 1.00 | ug/L |
| 1,1-Dichloroethane | MW-38A | 5/03/2021 | | 1.83 | 1.00 | ug/L |
| 1,1-Dichloroethane | MW-38A | 11/09/2021 | | 2.53 | 1.00 | ug/L |
| 1,1-Dichloroethane | MW-38A | 5/17/2022 | | 2.32 | 1.00 | ug/L |
| 1,1-Dichloroethane | MW-38A | 10/17/2022 | | 2.42 | 1.00 | ug/L |
| 1,1-Dichloroethane | MW-38A | 5/22/2023 | | 1.75 | 1.00 | ug/L |
| 1,1-Dichloroethane | MW-38A | 10/23/2023 | | 1.33 | 1.00 | ug/L |
| 1,1-Dichloroethane | MW-38A | 5/20/2024 | | 1.16 | 1.00 | ug/L |
| 1,1-Dichloroethane | MW-38A | 10/02/2024 | | 1.61 | 1.00 | ug/L |
| 1,1-Dichloroethane | MW-38A | 5/12/2025 | | 1.82 | 1.00 | ug/L |
| Chloroethane | MW-38A | 4/13/2010 | | 5.9 | 1.0 | ug/L |
| Chloroethane | MW-38A | 5/18/2010 | | 1.5 | 1.0 | ug/L |
| Chloroethane | MW-38A | 4/24/2012 | | 1.0 | 1.0 | ug/L |
| Chloroethane | MW-38A | 5/07/2013 | | 2.9 | 1.0 | ug/L |
| Chloroethane | MW-38A | 11/18/2015 | | 1.1 | 1.0 | ug/L |
| cis-1,2-Dichloroethene | MW-38A | 4/13/2010 | | 2.80 | 1.00 | ug/L |

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

## Table 1

### Historical Volatile Organic Compound Detections

| Constituent | Well | Date | Identifier | Result | Limit | Units |
|---|---|---|---|---|---|---|
| cis-1,2-Dichloroethene | MW-38A | 5/18/2010 | | 3.40 | 1.00 | ug/L |
| cis-1,2-Dichloroethene | MW-38A | 6/21/2010 | | 2.20 | 1.00 | ug/L |
| cis-1,2-Dichloroethene | MW-38A | 7/09/2010 | | 2.10 | 1.00 | ug/L |
| cis-1,2-Dichloroethene | MW-38A | 8/18/2010 | | 1.50 | 1.00 | ug/L |
| cis-1,2-Dichloroethene | MW-38A | 5/09/2011 | | 3.00 | 1.00 | ug/L |
| cis-1,2-Dichloroethene | MW-38A | 5/07/2013 | | 2.80 | 1.00 | ug/L |
| cis-1,2-Dichloroethene | MW-38A | 11/09/2021 | | 1.05 | 1.00 | ug/L |
| cis-1,2-Dichloroethene | MW-38A | 5/12/2025 | | 1.31 | 1.00 | ug/L |
| Vinyl chloride | MW-38A | 4/13/2010 | | 2.3 | 1.0 | ug/L |
| Vinyl chloride | MW-38A | 5/18/2010 | | 1.4 | 1.0 | ug/L |
| Vinyl chloride | MW-38A | 5/07/2013 | | 1.8 | 1.0 | ug/L |
| Vinyl chloride | MW-39A | 11/11/2013 | | 1.1 | 1.0 | ug/L |
| Vinyl chloride | MW-39A | 5/13/2014 | | 1.0 | 1.0 | ug/L |
| Acetone | Stormwater | 7/05/2018 | | 12 | 10 | ug/L |
| Acetone | Stormwater Pond | 4/22/2010 | | 45 | 5 | ug/L |
| Acrolein | Stormwater Pond | 4/22/2010 | | 39 | 20 | ug/L |
| Methyl Ethyl Ketone | Stormwater Pond | 4/22/2010 | | 25 | 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

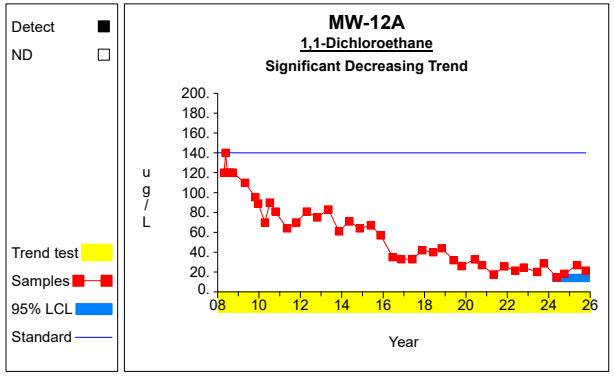
## Table 1

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

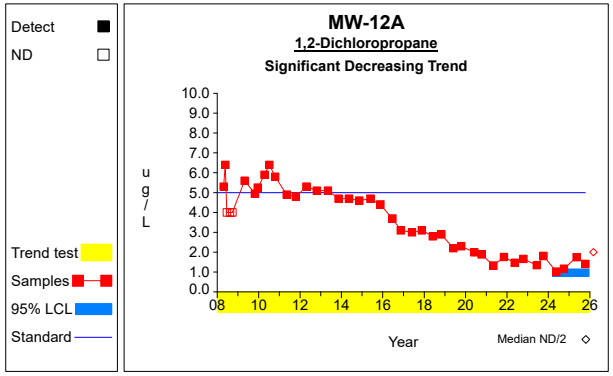
| Constituent | Units | Well | N | Mean | SD | Factor | 95% LCL | 95% UCL | Standard | Trend | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethane | ug/L | MW-12A | 4 | 20.300 | 5.260 | 1.176 | 14.113 | 26.487 | 140.000 | dec | |
| 1,2-Dichloropropane | ug/L | MW-12A | 4 | 1.338 | 0.318 | 1.176 | 0.963 | 1.712 | 5.000 | dec | |
| Acetone | ug/L | MW-12A | 4 | 5.000 | 0.000 | 1.176 | 5.000 | 5.000 | 6300.000 | | |
| Benzene | ug/L | MW-12A | 4 | 1.755 | 0.792 | 1.176 | 0.823 | 2.687 | 5.000 | | |
| Chloroethane | ug/L | MW-12A | 4 | 10.368 | 2.254 | 1.176 | 7.716 | 13.019 | 2800.000 | dec | |
| cis-1,2-Dichloroethene | ug/L | MW-12A | 4 | 23.300 | 6.993 | 1.176 | 15.074 | 31.526 | 70.000 | dec | |
| trans-1,2-Dichloroethene | ug/L | MW-12A | 4 | 2.895 | 0.827 | 1.176 | 1.923 | 3.867 | 100.000 | dec | |
| Trichloroethene | ug/L | MW-12A | 4 | 0.500 | 0.000 | 1.176 | 0.500 | 0.500 | 5.000 | | |
| Vinyl chloride | ug/L | MW-12A | 4 | 17.893 | 6.534 | 1.176 | 10.207 | 25.578 | 2.000 | dec | ** |
| 1,1-Dichloroethane | ug/L | MW-23A | 4 | 0.500 | 0.000 | 1.176 | 0.500 | 0.500 | 140.000 | | |
| 1,2-Dichloropropane | ug/L | MW-23A | 4 | 0.500 | 0.000 | 1.176 | 0.500 | 0.500 | 5.000 | | |
| Acetone | ug/L | MW-23A | 4 | 13.950 | 17.900 | 1.176 | 0.000 | 35.006 | 6300.000 | | |
| Benzene | ug/L | MW-23A | 4 | 0.663 | 0.325 | 1.176 | 0.280 | 1.045 | 5.000 | | |
| Chloroethane | ug/L | MW-23A | 4 | 0.500 | 0.000 | 1.176 | 0.500 | 0.500 | 2800.000 | | |
| cis-1,2-Dichloroethene | ug/L | MW-23A | 4 | 1.277 | 0.658 | 1.176 | 0.503 | 2.052 | 70.000 | dec | |
| trans-1,2-Dichloroethene | ug/L | MW-23A | 4 | 0.500 | 0.000 | 1.176 | 0.500 | 0.500 | 100.000 | | |
| Trichloroethene | ug/L | MW-23A | 4 | 3.157 | 0.623 | 1.176 | 2.425 | 3.890 | 5.000 | dec | |
| Vinyl chloride | ug/L | MW-23A | 4 | 0.500 | 0.000 | 1.176 | 0.500 | 0.500 | 2.000 | | |
| 1,1-Dichloroethane | ug/L | MW-37A | 4 | 0.500 | 0.000 | 1.176 | 0.500 | 0.500 | 140.000 | | |
| 1,2-Dichloropropane | ug/L | MW-37A | 4 | 0.500 | 0.000 | 1.176 | 0.500 | 0.500 | 5.000 | | |
| Acetone | ug/L | MW-37A | 4 | 5.000 | 0.000 | 1.176 | 5.000 | 5.000 | 6300.000 | | |
| Benzene | ug/L | MW-37A | 4 | 0.500 | 0.000 | 1.176 | 0.500 | 0.500 | 5.000 | | |
| Chloroethane | ug/L | MW-37A | 4 | 3.015 | 0.347 | 1.176 | 2.606 | 3.424 | 2800.000 | | |
| cis-1,2-Dichloroethene | ug/L | MW-37A | 4 | 0.500 | 0.000 | 1.176 | 0.500 | 0.500 | 70.000 | | |
| trans-1,2-Dichloroethene | ug/L | MW-37A | 4 | 0.500 | 0.000 | 1.176 | 0.500 | 0.500 | 100.000 | | |
| Trichloroethene | ug/L | MW-37A | 4 | 0.500 | 0.000 | 1.176 | 0.500 | 0.500 | 5.000 | | |
| Vinyl chloride | ug/L | MW-37A | 4 | 0.500 | 0.000 | 1.176 | 0.500 | 0.500 | 2.000 | | |
| 1,1-Dichloroethane | ug/L | MW-38A | 4 | 1.273 | 0.584 | 1.176 | 0.586 | 1.959 | 140.000 | | |
| 1,2-Dichloropropane | ug/L | MW-38A | 4 | 0.500 | 0.000 | 1.176 | 0.500 | 0.500 | 5.000 | | |
| Acetone | ug/L | MW-38A | 4 | 5.000 | 0.000 | 1.176 | 5.000 | 5.000 | 6300.000 | | |
| Benzene | ug/L | MW-38A | 4 | 0.500 | 0.000 | 1.176 | 0.500 | 0.500 | 5.000 | | |
| Chloroethane | ug/L | MW-38A | 4 | 0.500 | 0.000 | 1.176 | 0.500 | 0.500 | 2800.000 | | |
| cis-1,2-Dichloroethene | ug/L | MW-38A | 4 | 0.703 | 0.405 | 1.176 | 0.226 | 1.179 | 70.000 | | |
| trans-1,2-Dichloroethene | ug/L | MW-38A | 4 | 0.500 | 0.000 | 1.176 | 0.500 | 0.500 | 100.000 | | |
| Trichloroethene | ug/L | MW-38A | 4 | 0.500 | 0.000 | 1.176 | 0.500 | 0.500 | 5.000 | | |
| Vinyl chloride | ug/L | MW-38A | 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

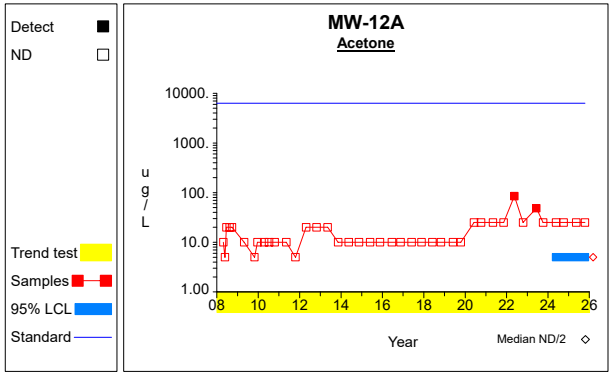
# Confidence Limits (Assessment)



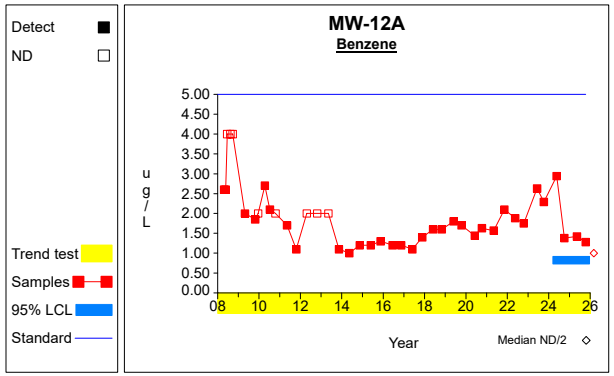

Graph 1



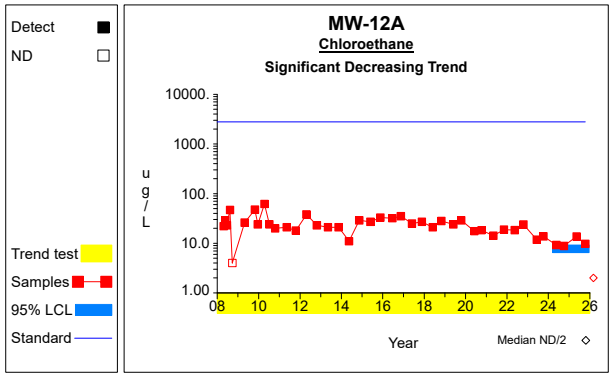

Graph 2



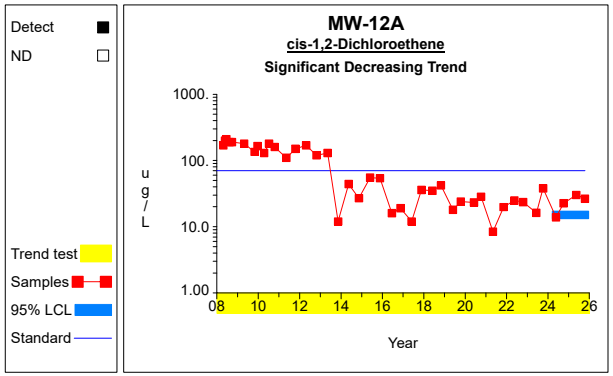

Graph 3



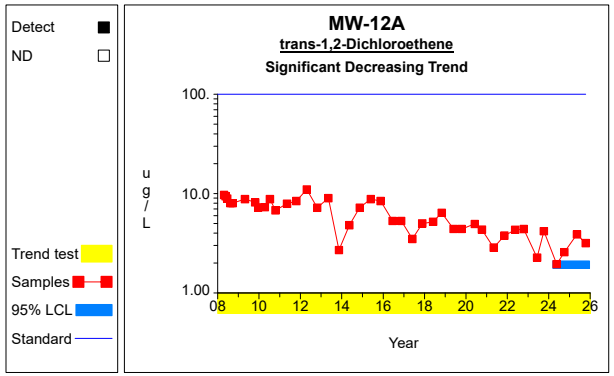

Graph 4



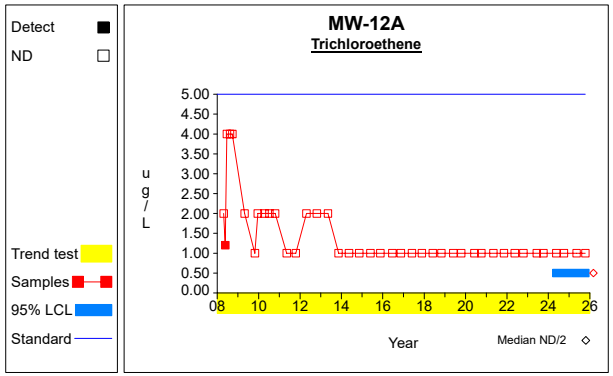

Graph 5



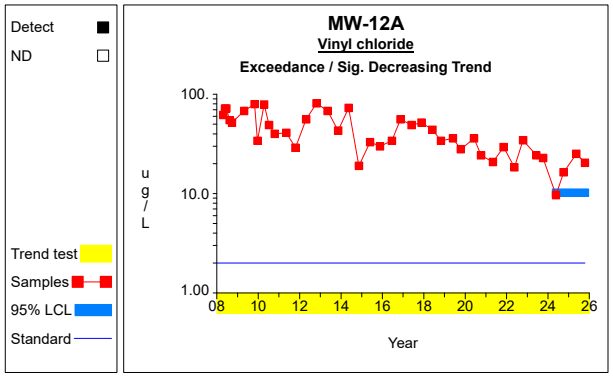

Graph 6




Graph 7

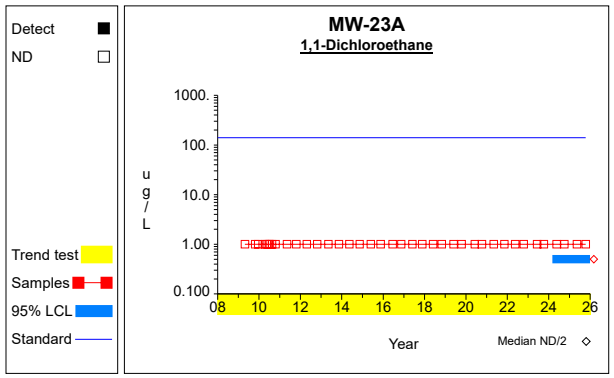



Graph 8

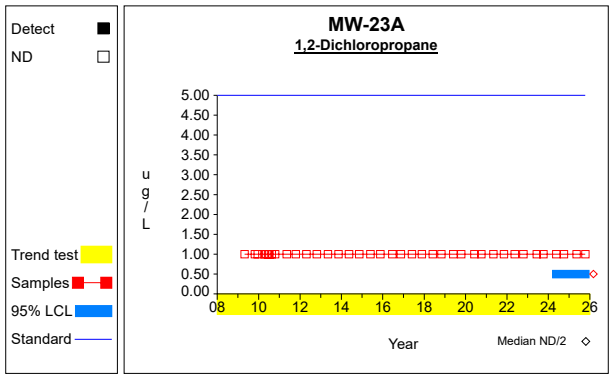



Graph 9

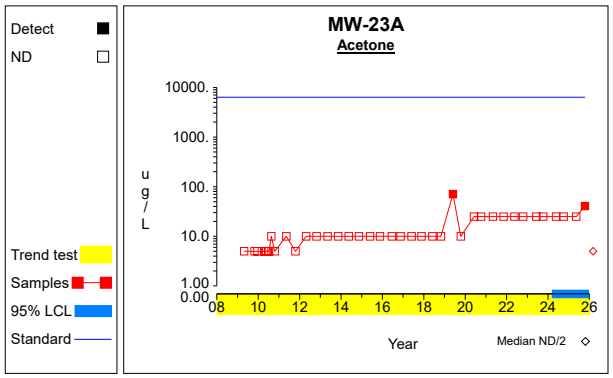
# Confidence Limits (Assessment)



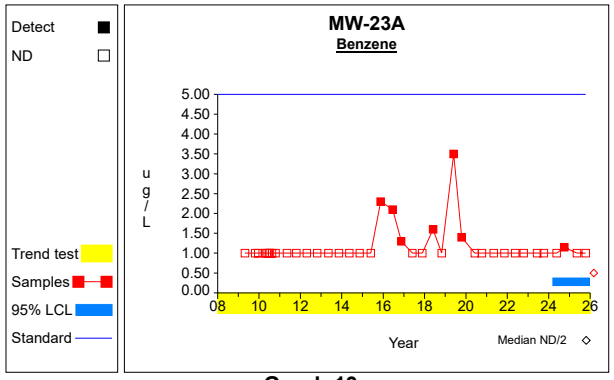

Graph 10



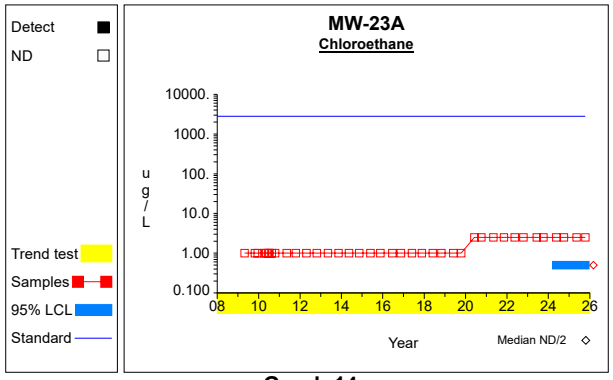

Graph 11



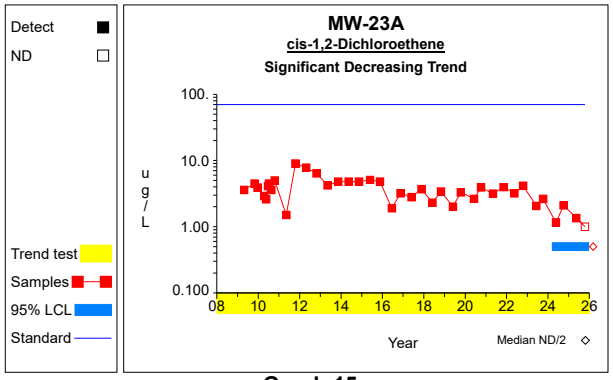

Graph 12



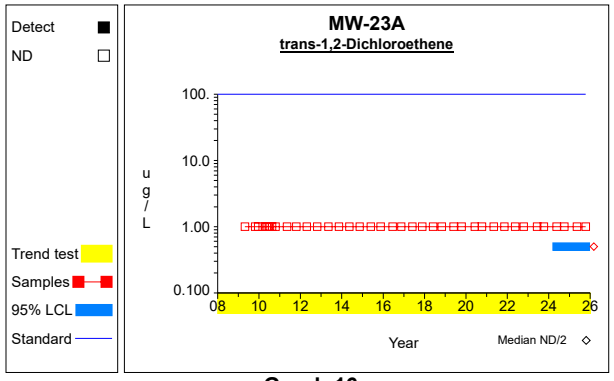

Graph 13



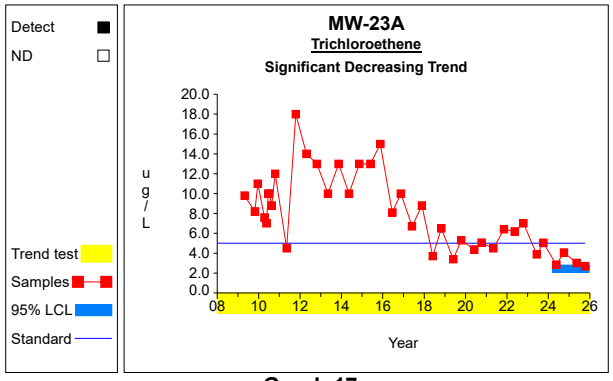

Graph 14



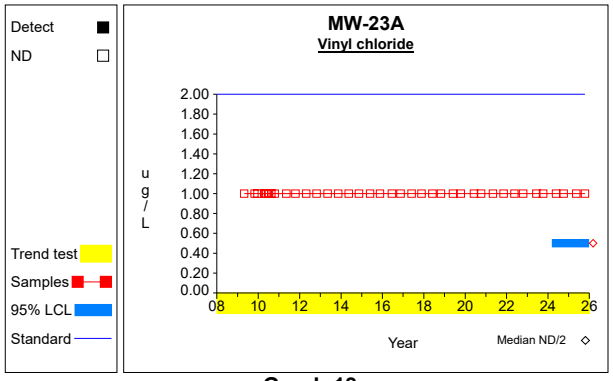

Graph 15




Graph 16



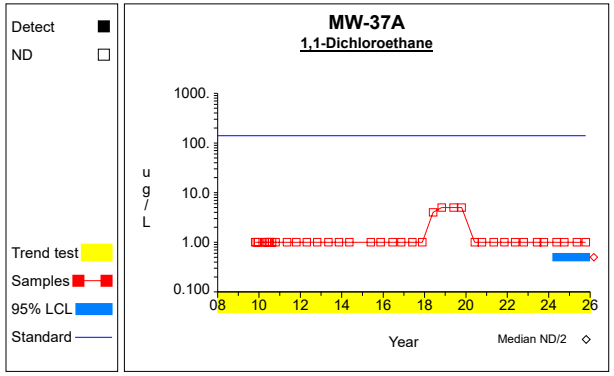

Graph 17



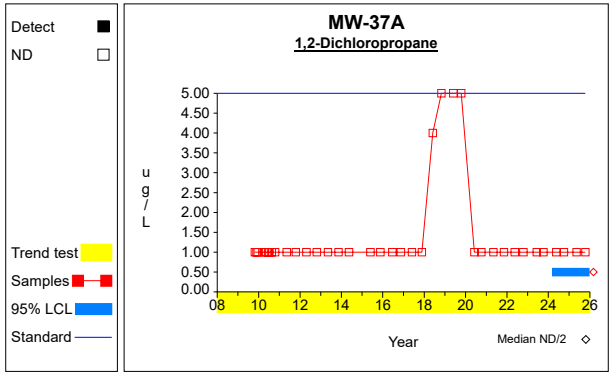

Graph 18

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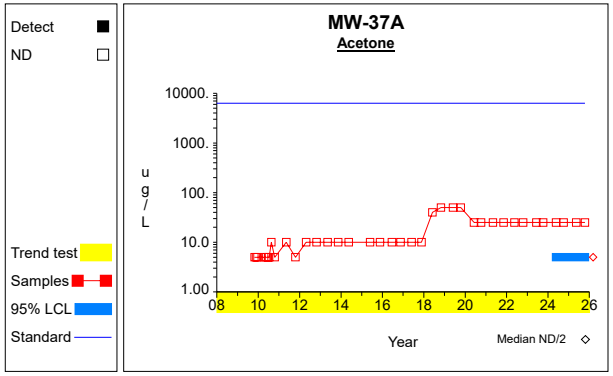
# Confidence Limits (Assessment)



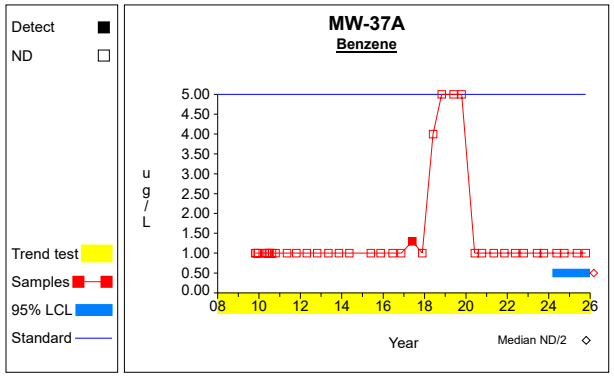

Graph 19



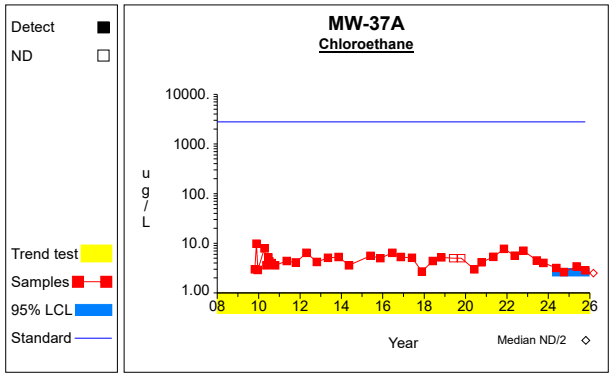

Graph 20



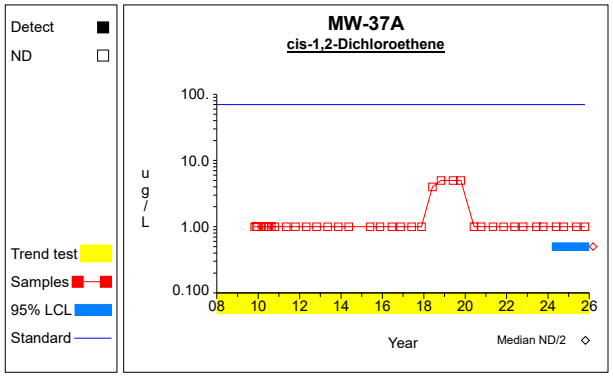

Graph 21



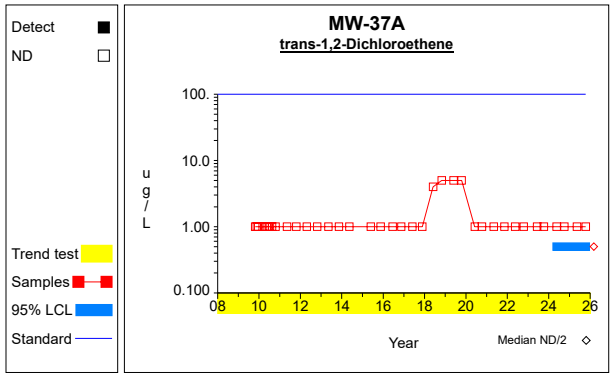

Graph 22



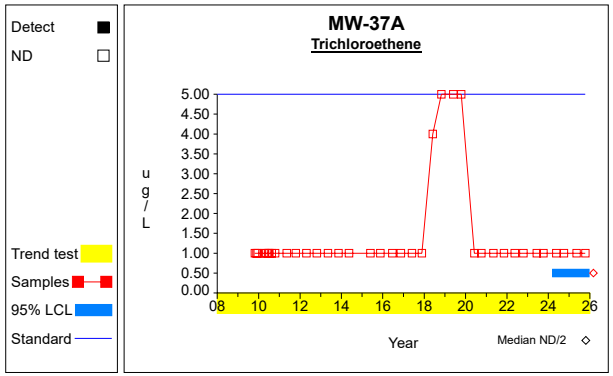

Graph 23



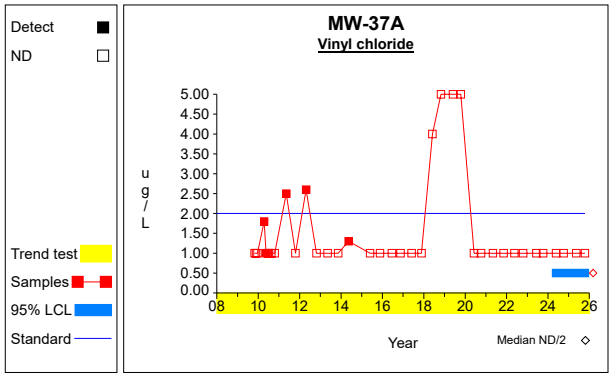

Graph 24




Graph 25



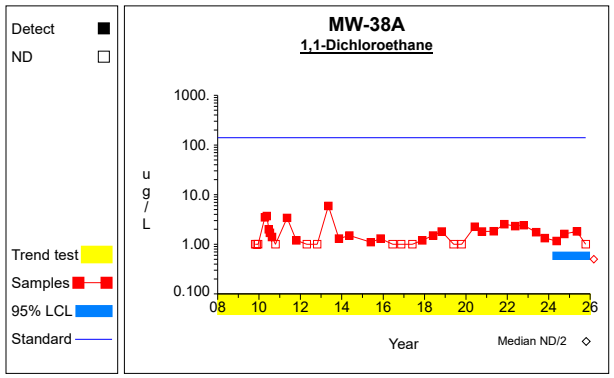

Graph 26



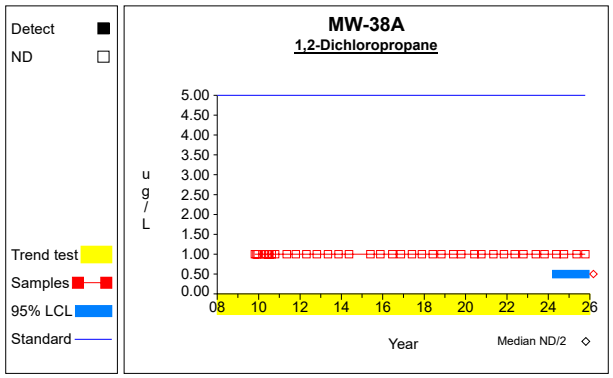

Graph 27

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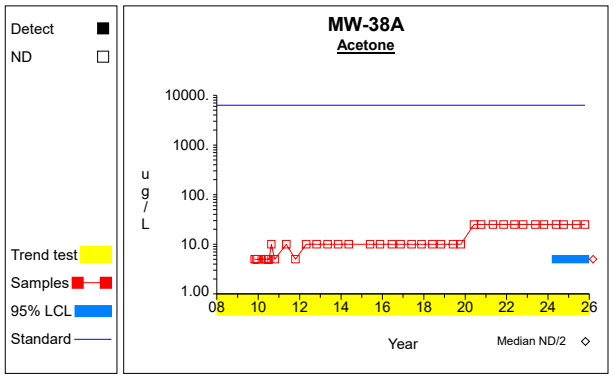
# Confidence Limits (Assessment)



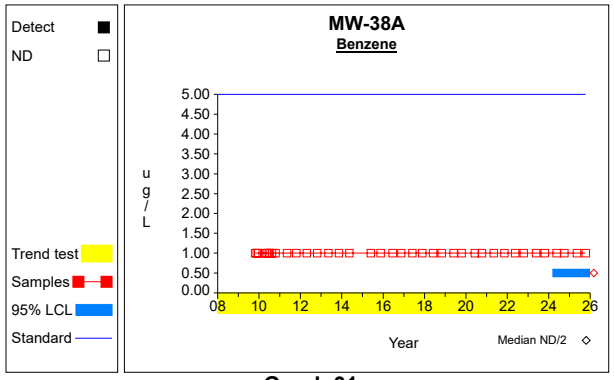

Graph 28



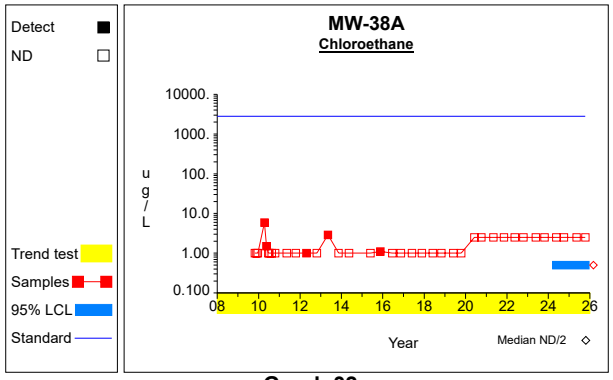

Graph 29



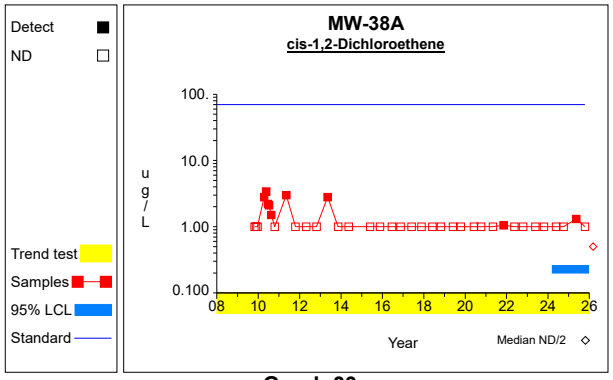

Graph 30



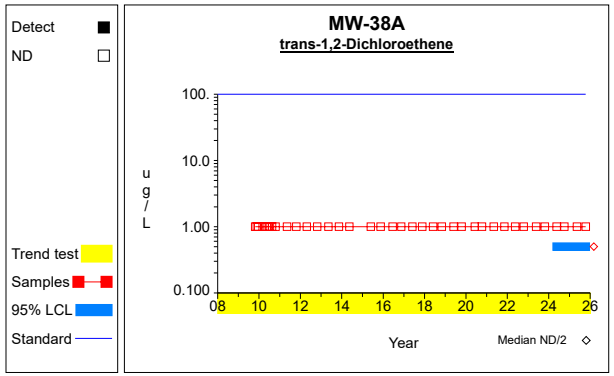

Graph 31



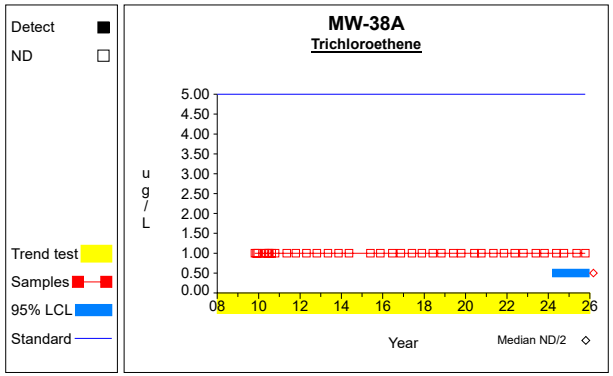

Graph 32



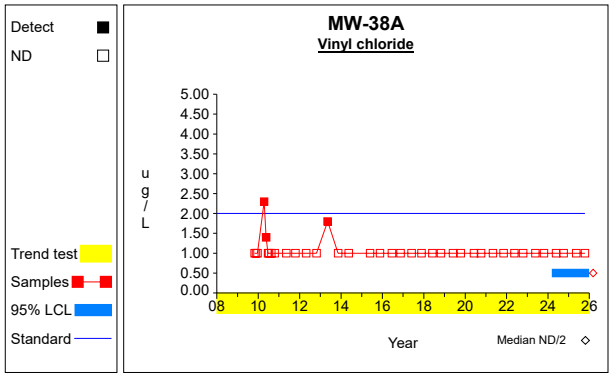

Graph 33




Graph 34




Graph 35




Graph 36

Prepared by: Otter Creek Environmental

## Worksheet 6 - Assessment Monitoring
## 1,1-Dichloroethane (ug/L) at MW-12A

| Step | Equation | Description |
|---|---|---|
| 1 | $\overline{X}$ = **sum[X]** / **N**<br>= **81.2** / **4**<br>= **20.3** | Compute the mean of the last 4 measurements. |
| 2 | S = ( (**sum[X$^2$]** - **sum[X]**$^2$/**N**) / (**N**-1) )$^{½}$<br>= ( (**1731.36** - **6593.44**/**4**) / (**4**-1) )$^{½}$<br>= **5.26** | Compute sd of the last 4 measurements. |
| 3 | LCL = $\overline{\mathbf{X}}$ - **tS**/**N**$^{½}$<br>= **20.3** - **2.353** * **5.26**/**4**$^{½}$<br>= **14.113** | Compute lower confidence limit for the mean of the last 4 measurements. |
| 4 | UCL = $\overline{\mathbf{X}}$ + **tS**/**N**$^{½}$<br>= **20.3** + **2.353** * **5.26**/**4**$^{½}$<br>= **26.487** | Compute upper confidence limit for the mean of the last 4 measurements. |
| 5 | N' = **N** * (**N**-1) / 2<br>= **41** * (**41**-1) / 2<br>= **820** | Number of sample pairs during trend detection period. |
| 6 | S = **-5.678** | Sen's estimator of trend. |
| 7 | var(S) = **7913.0** | Variance estimate for slope. |
| 8 | M(S) = (**N**' ± **Z**$_{.995}$ * **var(S)**$^{½}$) / 2<br>= (**820** ± **2.576** * **7913.0**$^{½}$) / 2<br>= [ **295.426**, **524.574** ] | 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) = [ **-6.942**, **-4.591** ] | Two-sided confidence interval for slope. |
| 10 | UCL(S) < 0 | **Significant decreasing trend.** |

## Worksheet 6 - Assessment Monitoring
## 1,2-Dichloropropane (ug/L) at MW-12A

| Step | Equation | Description |
|---|---|---|
| 1 | $\overline{X}$ = **sum[X]** / **N**<br>= **5.35** / **4**<br>= **1.338** | Compute the mean of the last 4 measurements. |
| 2 | S = ( (**sum[X$^2$]** - **sum[X]**$^2$/**N**) / (**N**-1) )$^{½}$<br>= ( (**7.46** - **28.623**/**4**) / (**4**-1) )$^{½}$<br>= **0.318** | Compute sd of the last 4 measurements. |
| 3 | LCL = $\overline{\mathbf{X}}$ - **tS**/**N**$^{½}$<br>= **1.338** - **2.353** * **0.318**/**4**$^{½}$<br>= **0.963** | Compute lower confidence limit for the mean of the last 4 measurements. |
| 4 | UCL = $\overline{\mathbf{X}}$ + **tS**/**N**$^{½}$<br>= **1.338** + **2.353** * **0.318**/**4**$^{½}$<br>= **1.712** | Compute upper confidence limit for the mean of the last 4 measurements. |
| 5 | N' = **N** * (**N**-1) / 2<br>= **41** * (**41**-1) / 2<br>= **820** | Number of sample pairs during trend detection period. |
| 6 | S = **-0.284** | Sen's estimator of trend. |
| 7 | var(S) = **7915.333** | Variance estimate for slope. |
| 8 | M(S) = (**N'** ± **Z**$_{.995}$ * **var(S)**$^{½}$) / 2<br>= (**820** ± **2.576** * **7915.333**$^{½}$) / 2<br>= [ **295.409**, **524.591** ] | 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) = [ **-0.335**, **-0.227** ] | Two-sided confidence interval for slope. |
| 10 | UCL(S) < 0 | **Significant decreasing trend.** |

## Worksheet 6 - Assessment Monitoring
## Acetone (ug/L) at MW-12A

| Step | Equation | Description |
|---|---|---|
| 1 | $\overline{X}$ = **sum[X]** / **N**<br>= **20.0** / **4**<br>= **5.0** | Compute the mean of the last 4 measurements. |
| 2 | S = ( (**sum[X$^2$]** - **sum[X]**$^2$/**N**) / (**N**-1) )$^{½}$<br>= ( (**100.0** - **400.0**/**4**) / (**4**-1) )$^{½}$<br>= **0.0** | Compute sd of the last 4 measurements. |
| 3 | LCL = $\overline{\mathbf{X}}$ - **tS**/**N**$^{½}$<br>= **5.0** - **2.353** * **0.0**/**4**$^{½}$<br>= **5.0** | Compute lower confidence limit for the mean of the last 4 measurements. |
| 4 | UCL = $\overline{\mathbf{X}}$ + **tS**/**N**$^{½}$<br>= **5.0** + **2.353** * **0.0**/**4**$^{½}$<br>= **5.0** | Compute upper confidence limit for the mean of the last 4 measurements. |
| 5 | N' = **N** * (**N**-1) / 2<br>= **41** * (**41**-1) / 2<br>= **820** | Number of sample pairs during trend detection period. |
| 6 | S = **0.0** | Sen's estimator of trend. |
| 7 | var(S) = **1093.0** | Variance estimate for slope. |
| 8 | M(S) = (**N'** ± **Z**$_{.995}$ * **var(S)**$^{½}$) / 2<br>= (**820** ± **2.576** * **1093.0**$^{½}$) / 2<br>= [ **367.418**, **452.582** ] | 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
## Benzene (ug/L) at MW-12A

| Step | Equation | Description |
|---|---|---|
| 1 | $\overline{X}$ = **sum[X]** / **N**<br>= **7.02** / **4**<br>= **1.755** | Compute the mean of the last 4 measurements. |
| 2 | S = ( (**sum[X$^2$]** - **sum[X]**$^2$/**N**) / (**N**-1) )$^{½}$<br>= ( (**14.203** - **49.28**/**4**) / (**4**-1) )$^{½}$<br>= **0.792** | Compute sd of the last 4 measurements. |
| 3 | LCL = $\overline{\mathbf{X}}$ - **tS**/**N**$^{½}$<br>= **1.755** - **2.353** * **0.792**/**4**$^{½}$<br>= **0.823** | Compute lower confidence limit for the mean of the last 4 measurements. |
| 4 | UCL = $\overline{\mathbf{X}}$ + **tS**/**N**$^{½}$<br>= **1.755** + **2.353** * **0.792**/**4**$^{½}$<br>= **2.687** | Compute upper confidence limit for the mean of the last 4 measurements. |
| 5 | N' = **N** * (**N**-1) / 2<br>= **41** * (**41**-1) / 2<br>= **820** | Number of sample pairs during trend detection period. |
| 6 | S = **0.029** | Sen's estimator of trend. |
| 7 | var(S) = **7818.333** | Variance estimate for slope. |
| 8 | M(S) = (**N'** ± **Z**$_{.995}$ * **var(S)**$^{½}$) / 2<br>= (**820** ± **2.576** * **7818.333**$^{½}$) / 2<br>= [ **296.113**, **523.887** ] | 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**, **0.064** ] | Two-sided confidence interval for slope. |
| 10 | the interval includes 0 | There is no significant trend. |

## Worksheet 6 - Assessment Monitoring
## Chloroethane (ug/L) at MW-12A

| Step | Equation | Description |
|---|---|---|
| 1 | $\overline{X}$ = **sum[X]** / **N**<br>= **41.47** / **4**<br>= **10.368** | Compute the mean of the last 4 measurements. |
| 2 | S = ( (**sum[X$^2$]** - **sum[X]**$^2$/**N**) / (**N**-1) )$^{½}$<br>= ( (**445.185** - **1719.761**/**4**) / (**4**-1) )$^{½}$<br>= **2.254** | Compute sd of the last 4 measurements. |
| 3 | LCL = $\overline{\mathbf{X}}$ - **tS**/**N**$^{½}$<br>= **10.368** - **2.353** * **2.254**/**4**$^{½}$<br>= **7.716** | Compute lower confidence limit for the mean of the last 4 measurements. |
| 4 | UCL = $\overline{\mathbf{X}}$ + **tS**/**N**$^{½}$<br>= **10.368** + **2.353** * **2.254**/**4**$^{½}$<br>= **13.019** | Compute upper confidence limit for the mean of the last 4 measurements. |
| 5 | N' = **N** * (**N**-1) / 2<br>= **41** * (**41**-1) / 2<br>= **820** | Number of sample pairs during trend detection period. |
| 6 | S = **-0.866** | Sen's estimator of trend. |
| 7 | var(S) = **7908.667** | Variance estimate for slope. |
| 8 | M(S) = (**N'** ± **Z**$_{.995}$ * **var(S)**$^{½}$) / 2<br>= (**820** ± **2.576** * **7908.667**$^{½}$) / 2<br>= [ **295.457**, **524.543** ] | 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) = [ **-1.861**, **-0.222** ] | Two-sided confidence interval for slope. |
| 10 | UCL(S) < 0 | **Significant decreasing trend.** |

## Worksheet 6 - Assessment Monitoring
## cis-1,2-Dichloroethene (ug/L) at MW-12A

| Step | Equation | Description |
|---|---|---|
| 1 | $\overline{X}$ = **sum[X]** / **N**<br>= **93.2** / **4**<br>= **23.3** | Compute the mean of the last 4 measurements. |
| 2 | S = ( (**sum[X$^2$]** - **sum[X]**$^2$/**N**) / (**N**-1) )$^{½}$<br>= ( (**2318.26** - **8686.24**/**4**) / (**4**-1) )$^{½}$<br>= **6.993** | Compute sd of the last 4 measurements. |
| 3 | LCL = $\overline{\mathbf{X}}$ - **tS**/**N**$^{½}$<br>= **23.3** - **2.353** * **6.993**/**4**$^{½}$<br>= **15.074** | Compute lower confidence limit for the mean of the last 4 measurements. |
| 4 | UCL = $\overline{\mathbf{X}}$ + **tS**/**N**$^{½}$<br>= **23.3** + **2.353** * **6.993**/**4**$^{½}$<br>= **31.526** | Compute upper confidence limit for the mean of the last 4 measurements. |
| 5 | N' = **N** * (**N**-1) / 2<br>= **41** * (**41**-1) / 2<br>= **820** | Number of sample pairs during trend detection period. |
| 6 | S = **-10.382** | Sen's estimator of trend. |
| 7 | var(S) = **7921.667** | Variance estimate for slope. |
| 8 | M(S) = (**N'** ± **Z**$_{.995}$ * **var(S)**$^{½}$) / 2<br>= (**820** ± **2.576** * **7921.667**$^{½}$) / 2<br>= [ **295.363**, **524.637** ] | 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) = [ **-13.55**, **-5.828** ] | Two-sided confidence interval for slope. |
| 10 | UCL(S) < 0 | **Significant decreasing trend.** |

## Worksheet 6 - Assessment Monitoring
## trans-1,2-Dichloroethene (ug/L) at MW-12A

| Step | Equation | Description |
|---|---|---|
| 1 | $\overline{X}$ = **sum[X]** / **N**<br>= **11.58** / **4**<br>= **2.895** | Compute the mean of the last 4 measurements. |
| 2 | S = ( (**sum[X$^2$]** - **sum[X]**$^2$/**N**) / (**N**-1) )$^{½}$<br>= ( (**35.574** - **134.096**/**4**) / (**4**-1) )$^{½}$<br>= **0.827** | Compute sd of the last 4 measurements. |
| 3 | LCL = $\overline{\mathbf{X}}$ - **tS**/**N**$^{½}$<br>= **2.895** - **2.353** * **0.827**/**4**$^{½}$<br>= **1.923** | Compute lower confidence limit for the mean of the last 4 measurements. |
| 4 | UCL = $\overline{\mathbf{X}}$ + **tS**/**N**$^{½}$<br>= **2.895** + **2.353** * **0.827**/**4**$^{½}$<br>= **3.867** | Compute upper confidence limit for the mean of the last 4 measurements. |
| 5 | N' = **N** * (**N**-1) / 2<br>= **41** * (**41**-1) / 2<br>= **820** | Number of sample pairs during trend detection period. |
| 6 | S = **-0.354** | Sen's estimator of trend. |
| 7 | var(S) = **7918.0** | Variance estimate for slope. |
| 8 | M(S) = (**N'** ± **Z**$_{.995}$ * **var(S)**$^{½}$) / 2<br>= (**820** ± **2.576** * **7918.0**$^{½}$) / 2<br>= [ **295.39**, **524.61** ] | 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) = [ **-0.453**, **-0.269** ] | Two-sided confidence interval for slope. |
| 10 | UCL(S) < 0 | **Significant decreasing trend.** |

## Worksheet 6 - Assessment Monitoring
## Trichloroethene (ug/L) at MW-12A

| Step | Equation | Description |
|---|---|---|
| 1 | $\overline{X}$ = **sum[X]** / **N**<br>= **2.0** / **4**<br>= **0.5** | Compute the mean of the last 4 measurements. |
| 2 | S = ( (**sum[X$^2$]** - **sum[X]**$^2$/**N**) / (**N**-1) )$^{½}$<br>= ( (**1.0** - **4.0**/**4**) / (**4**-1) )$^{½}$<br>= **0.0** | Compute sd of the last 4 measurements. |
| 3 | LCL = $\overline{\mathbf{X}}$ - **tS**/**N**$^{½}$<br>= **0.5** - **2.353** * **0.0**/**4**$^{½}$<br>= **0.5** | Compute lower confidence limit for the mean of the last 4 measurements. |
| 4 | UCL = $\overline{\mathbf{X}}$ + **tS**/**N**$^{½}$<br>= **0.5** + **2.353** * **0.0**/**4**$^{½}$<br>= **0.5** | Compute upper confidence limit for the mean of the last 4 measurements. |
| 5 | N' = **N** * (**N**-1) / 2<br>= **41** * (**41**-1) / 2<br>= **820** | Number of sample pairs during trend detection period. |
| 6 | S = **0.0** | Sen's estimator of trend. |
| 7 | var(S) = **560.0** | Variance estimate for slope. |
| 8 | M(S) = (**N'** ± **Z**$_{.995}$ * **var(S)**$^{½}$) / 2<br>= (**820** ± **2.576** * **560.0**$^{½}$) / 2<br>= [ **379.52**, **440.48** ] | 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
## Vinyl chloride (ug/L) at MW-12A

| Step | Equation | Description |
|---|---|---|
| 1 | $\overline{X}$ = **sum[X]** / **N**<br>= **71.57** / **4**<br>= **17.893** | Compute the mean of the last 4 measurements. |
| 2 | S = ( (**sum[X$^2$]** - **sum[X]**$^2$/**N**) / (**N**-1) )$^{½}$<br>= ( (**1408.639** - **5122.265**/**4**) / (**4**-1) )$^{½}$<br>= **6.534** | Compute sd of the last 4 measurements. |
| 3 | LCL = $\overline{\mathbf{X}}$ - **tS**/**N**$^{½}$<br>= **17.893** - **2.353** * **6.534**/**4**$^{½}$<br>= **10.207** | Compute lower confidence limit for the mean of the last 4 measurements. |
| 4 | UCL = $\overline{\mathbf{X}}$ + **tS**/**N**$^{½}$<br>= **17.893** + **2.353** * **6.534**/**4**$^{½}$<br>= **25.578** | Compute upper confidence limit for the mean of the last 4 measurements. |
| 5 | N' = **N** * (**N**-1) / 2<br>= **41** * (**41**-1) / 2<br>= **820** | Number of sample pairs during trend detection period. |
| 6 | S = **-2.668** | Sen's estimator of trend. |
| 7 | var(S) = **7916.0** | Variance estimate for slope. |
| 8 | M(S) = (**N'** ± **Z**$_{.995}$ * **var(S)**$^{½}$) / 2<br>= (**820** ± **2.576** * **7916.0**$^{½}$) / 2<br>= [ **295.404**, **524.596** ] | 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) = [ **-3.867**, **-1.547** ] | Two-sided confidence interval for slope. |
| 10 | UCL(S) < 0 | **Significant decreasing trend.** |

## Worksheet 6 - Assessment Monitoring
## 1,1-Dichloroethane (ug/L) at MW-23A

| Step | Equation | Description |
|---|---|---|
| 1 | $\overline{X}$ = **sum[X]** / **N**<br>= **2.0** / **4**<br>= **0.5** | Compute the mean of the last 4 measurements. |
| 2 | S = ( (**sum[X$^2$]** - **sum[X]**$^2$/**N**) / (**N**-1) )$^{½}$<br>= ( (**1.0** - **4.0**/**4**) / (**4**-1) )$^{½}$<br>= **0.0** | Compute sd of the last 4 measurements. |
| 3 | LCL = $\overline{\mathbf{X}}$ - **tS**/**N**$^{½}$<br>= **0.5** - **2.353** * **0.0**/**4**$^{½}$<br>= **0.5** | Compute lower confidence limit for the mean of the last 4 measurements. |
| 4 | UCL = $\overline{\mathbf{X}}$ + **tS**/**N**$^{½}$<br>= **0.5** + **2.353** * **0.0**/**4**$^{½}$<br>= **0.5** | Compute upper confidence limit for the mean of the last 4 measurements. |
| 5 | N' = **N** * (**N**-1) / 2<br>= **39** * (**39**-1) / 2<br>= **741** | Number of sample pairs during trend detection period. |
| 6 | S = **0.0** | Sen's estimator of trend. |
| 7 | var(S) = **0.0** | Variance estimate for slope. |
| 8 | M(S) = (**N'** ± **Z**$_{.995}$ * **var(S)**$^{½}$) / 2<br>= (**741** ± **2.576** * **0.0**$^{½}$) / 2<br>= [ **370.5**, **370.5** ] | 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
## 1,2-Dichloropropane (ug/L) at MW-23A

| Step | Equation | Description |
|---|---|---|
| 1 | $\overline{X}$ = **sum[X]** / **N**<br>= **2.0** / **4**<br>= **0.5** | Compute the mean of the last 4 measurements. |
| 2 | S = ( (**sum[X$^2$]** - **sum[X]**$^2$/**N**) / (**N**-1) )$^{½}$<br>= ( (**1.0** - **4.0**/**4**) / (**4**-1) )$^{½}$<br>= **0.0** | Compute sd of the last 4 measurements. |
| 3 | LCL = $\overline{\mathbf{X}}$ - **tS**/**N**$^{½}$<br>= **0.5** - **2.353** * **0.0**/**4**$^{½}$<br>= **0.5** | Compute lower confidence limit for the mean of the last 4 measurements. |
| 4 | UCL = $\overline{\mathbf{X}}$ + **tS**/**N**$^{½}$<br>= **0.5** + **2.353** * **0.0**/**4**$^{½}$<br>= **0.5** | Compute upper confidence limit for the mean of the last 4 measurements. |
| 5 | N' = **N** * (**N**-1) / 2<br>= **39** * (**39**-1) / 2<br>= **741** | Number of sample pairs during trend detection period. |
| 6 | S = **0.0** | Sen's estimator of trend. |
| 7 | var(S) = **0.0** | Variance estimate for slope. |
| 8 | M(S) = (**N'** ± **Z**$_{.995}$ * **var(S)**$^{½}$) / 2<br>= (**741** ± **2.576** * **0.0**$^{½}$) / 2<br>= [ **370.5**, **370.5** ] | 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
## Acetone (ug/L) at MW-23A

| Step | Equation | Description |
|---|---|---|
| 1 | $\overline{X}$ = **sum[X]** / **N**<br>= **55.8** / **4**<br>= **13.95** | Compute the mean of the last 4 measurements. |
| 2 | S = ( (**sum[X$^2$]** - **sum[X]**$^2$/**N**) / (**N**-1) )$^{½}$<br>= ( (**1739.64** - **3113.64**/**4**) / (**4**-1) )$^{½}$<br>= **17.9** | Compute sd of the last 4 measurements. |
| 3 | LCL = $\overline{\mathbf{X}}$ - **tS**/**N**$^{½}$<br>= **13.95** - **2.353** * **17.9**/**4**$^{½}$<br>= **0.0** | Compute lower confidence limit for the mean of the last 4 measurements. |
| 4 | UCL = $\overline{\mathbf{X}}$ + **tS**/**N**$^{½}$<br>= **13.95** + **2.353** * **17.9**/**4**$^{½}$<br>= **35.006** | Compute upper confidence limit for the mean of the last 4 measurements. |
| 5 | N' = **N** * (**N**-1) / 2<br>= **39** * (**39**-1) / 2<br>= **741** | Number of sample pairs during trend detection period. |
| 6 | S = **0.0** | Sen's estimator of trend. |
| 7 | var(S) = **987.667** | Variance estimate for slope. |
| 8 | M(S) = (**N'** ± **Z**$_{.995}$ * **var(S)**$^{½}$) / 2<br>= (**741** ± **2.576** * **987.667**$^{½}$) / 2<br>= [ **330.022**, **410.978** ] | 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
## Benzene (ug/L) at MW-23A

| Step | Equation | Description |
|---|---|---|
| 1 | $\overline{X}$ = **sum[X]** / **N**<br>= **2.65** / **4**<br>= **0.663** | Compute the mean of the last 4 measurements. |
| 2 | S = ( (**sum[X$^2$]** - **sum[X]**$^2$/**N**) / (**N**-1) )$^{½}$<br>= ( (**2.073** - **7.023**/**4**) / (**4**-1) )$^{½}$<br>= **0.325** | Compute sd of the last 4 measurements. |
| 3 | LCL = $\overline{\mathbf{X}}$ - **tS**/**N**$^{½}$<br>= **0.663** - **2.353** * **0.325**/**4**$^{½}$<br>= **0.28** | Compute lower confidence limit for the mean of the last 4 measurements. |
| 4 | UCL = $\overline{\mathbf{X}}$ + **tS**/**N**$^{½}$<br>= **0.663** + **2.353** * **0.325**/**4**$^{½}$<br>= **1.045** | Compute upper confidence limit for the mean of the last 4 measurements. |
| 5 | N' = **N** * (**N**-1) / 2<br>= **39** * (**39**-1) / 2<br>= **741** | Number of sample pairs during trend detection period. |
| 6 | S = **0.0** | Sen's estimator of trend. |
| 7 | var(S) = **3031.0** | Variance estimate for slope. |
| 8 | M(S) = (**N'** ± **Z**$_{.995}$ * **var(S)**$^{½}$) / 2<br>= (**741** ± **2.576** * **3031.0**$^{½}$) / 2<br>= [ **299.59**, **441.41** ] | 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
## Chloroethane (ug/L) at MW-23A

| Step | Equation | Description |
|---|---|---|
| 1 | $\overline{X}$ = **sum[X]** / **N**<br>= **2.0** / **4**<br>= **0.5** | Compute the mean of the last 4 measurements. |
| 2 | S = ( (**sum[X$^2$]** - **sum[X]**$^2$/**N**) / (**N**-1) )$^{½}$<br>= ( (**1.0** - **4.0**/**4**) / (**4**-1) )$^{½}$<br>= **0.0** | Compute sd of the last 4 measurements. |
| 3 | LCL = $\overline{\mathbf{X}}$ - **tS**/**N**$^{½}$<br>= **0.5** - **2.353** * **0.0**/**4**$^{½}$<br>= **0.5** | Compute lower confidence limit for the mean of the last 4 measurements. |
| 4 | UCL = $\overline{\mathbf{X}}$ + **tS**/**N**$^{½}$<br>= **0.5** + **2.353** * **0.0**/**4**$^{½}$<br>= **0.5** | Compute upper confidence limit for the mean of the last 4 measurements. |
| 5 | N' = **N** * (**N**-1) / 2<br>= **39** * (**39**-1) / 2<br>= **741** | Number of sample pairs during trend detection period. |
| 6 | S = **0.0** | Sen's estimator of trend. |
| 7 | var(S) = **0.0** | Variance estimate for slope. |
| 8 | M(S) = (**N'** ± **Z**$_{.995}$ * **var(S)**$^{½}$) / 2<br>= (**741** ± **2.576** * **0.0**$^{½}$) / 2<br>= [ **370.5**, **370.5** ] | 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
## cis-1,2-Dichloroethene (ug/L) at MW-23A

| Step | Equation | Description |
|---|---|---|
| 1 | $\overline{X}$ = **sum[X]** / **N**<br>= **5.11** / **4**<br>= **1.278** | Compute the mean of the last 4 measurements. |
| 2 | S = ( (**sum[X$^2$]** - **sum[X]**$^2$/**N**) / (**N**-1) )$^{½}$<br>= ( (**7.828** - **26.112**/**4**) / (**4**-1) )$^{½}$<br>= **0.658** | Compute sd of the last 4 measurements. |
| 3 | LCL = $\overline{\mathbf{X}}$ - **tS**/**N**$^{½}$<br>= **1.278** - **2.353** * **0.658**/**4**$^{½}$<br>= **0.503** | Compute lower confidence limit for the mean of the last 4 measurements. |
| 4 | UCL = $\overline{\mathbf{X}}$ + **tS**/**N**$^{½}$<br>= **1.278** + **2.353** * **0.658**/**4**$^{½}$<br>= **2.052** | Compute upper confidence limit for the mean of the last 4 measurements. |
| 5 | N' = **N** * (**N**-1) / 2<br>= **39** * (**39**-1) / 2<br>= **741** | Number of sample pairs during trend detection period. |
| 6 | S = **-0.141** | Sen's estimator of trend. |
| 7 | var(S) = **6823.0** | Variance estimate for slope. |
| 8 | M(S) = (**N'** ± **Z**$_{.995}$ * **var(S)**$^{½}$) / 2<br>= (**741** ± **2.576** * **6823.0**$^{½}$) / 2<br>= [ **264.109**, **476.891** ] | 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) = [ **-0.275**, **-0.032** ] | Two-sided confidence interval for slope. |
| 10 | UCL(S) < 0 | **Significant decreasing trend.** |

## Worksheet 6 - Assessment Monitoring
## trans-1,2-Dichloroethene (ug/L) at MW-23A

| Step | Equation | Description |
|---|---|---|
| 1 | $\overline{X}$ = **sum[X]** / **N**<br>= **2.0** / **4**<br>= **0.5** | Compute the mean of the last 4 measurements. |
| 2 | S = ( (**sum[X$^2$]** - **sum[X]**$^2$/**N**) / (**N**-1) )$^{1/2}$<br>= ( (**1.0** - **4.0**/**4**) / (**4**-1) )$^{1/2}$<br>= **0.0** | Compute sd of the last 4 measurements. |
| 3 | LCL = $\overline{\mathbf{X}}$ - **tS**/**N**$^{1/2}$<br>= **0.5** - **2.353** * **0.0**/**4**$^{1/2}$<br>= **0.5** | Compute lower confidence limit for the mean of the last 4 measurements. |
| 4 | UCL = $\overline{\mathbf{X}}$ + **tS**/**N**$^{1/2}$<br>= **0.5** + **2.353** * **0.0**/**4**$^{1/2}$<br>= **0.5** | Compute upper confidence limit for the mean of the last 4 measurements. |
| 5 | N' = **N** * (**N**-1) / 2<br>= **39** * (**39**-1) / 2<br>= **741** | Number of sample pairs during trend detection period. |
| 6 | S = **0.0** | Sen's estimator of trend. |
| 7 | var(S) = **0.0** | Variance estimate for slope. |
| 8 | M(S) = (**N'** ± **Z**$_{.995}$ * **var(S)**$^{1/2}$) / 2<br>= (**741** ± **2.576** * **0.0**$^{1/2}$) / 2<br>= [ **370.5**, **370.5** ] | 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
## Trichloroethene (ug/L) at MW-23A

| Step | Equation | Description |
|---|---|---|
| 1 | $\overline{X}$ = **sum[X]** / **N**<br>= **12.63** / **4**<br>= **3.158** | Compute the mean of the last 4 measurements. |
| 2 | S = ( (**sum[X$^2$]** - **sum[X]**$^2$/**N**) / (**N**-1) )$^{½}$<br>= ( (**41.044** - **159.517**/**4**) / (**4**-1) )$^{½}$<br>= **0.623** | Compute sd of the last 4 measurements. |
| 3 | LCL = $\overline{\mathbf{X}}$ - **tS**/**N**$^{½}$<br>= **3.158** - **2.353** * **0.623**/**4**$^{½}$<br>= **2.425** | Compute lower confidence limit for the mean of the last 4 measurements. |
| 4 | UCL = $\overline{\mathbf{X}}$ + **tS**/**N**$^{½}$<br>= **3.158** + **2.353** * **0.623**/**4**$^{½}$<br>= **3.89** | Compute upper confidence limit for the mean of the last 4 measurements. |
| 5 | N' = **N** * (**N**-1) / 2<br>= **39** * (**39**-1) / 2<br>= **741** | Number of sample pairs during trend detection period. |
| 6 | S = **-0.463** | Sen's estimator of trend. |
| 7 | var(S) = **6807.333** | Variance estimate for slope. |
| 8 | M(S) = (**N'** ± **Z**$_{.995}$ * **var(S)**$^{½}$) / 2<br>= (**741** ± **2.576** * **6807.333**$^{½}$) / 2<br>= [ **264.232**, **476.768** ] | 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) = [ **-0.728**, **-0.242** ] | Two-sided confidence interval for slope. |
| 10 | UCL(S) < 0 | **Significant decreasing trend.** |

## Worksheet 6 - Assessment Monitoring
## Vinyl chloride (ug/L) at MW-23A

| Step | Equation | Description |
|---|---|---|
| 1 | $\overline{X}$ = **sum[X]** / **N**<br>= **2.0** / **4**<br>= **0.5** | Compute the mean of the last 4 measurements. |
| 2 | S = ( (**sum[X$^2$]** - **sum[X]**$^2$/**N**) / (**N**-1) )$^{½}$<br>= ( (**1.0** - **4.0**/**4**) / (**4**-1) )$^{½}$<br>= **0.0** | Compute sd of the last 4 measurements. |
| 3 | LCL = $\overline{\mathbf{X}}$ - **tS**/**N**$^{½}$<br>= **0.5** - **2.353** * **0.0**/**4**$^{½}$<br>= **0.5** | Compute lower confidence limit for the mean of the last 4 measurements. |
| 4 | UCL = $\overline{\mathbf{X}}$ + **tS**/**N**$^{½}$<br>= **0.5** + **2.353** * **0.0**/**4**$^{½}$<br>= **0.5** | Compute upper confidence limit for the mean of the last 4 measurements. |
| 5 | N' = **N** * (**N**-1) / 2<br>= **39** * (**39**-1) / 2<br>= **741** | Number of sample pairs during trend detection period. |
| 6 | S = **0.0** | Sen's estimator of trend. |
| 7 | var(S) = **0.0** | Variance estimate for slope. |
| 8 | M(S) = (**N'** ± **Z**$_{.995}$ * **var(S)**$^{½}$) / 2<br>= (**741** ± **2.576** * **0.0**$^{½}$) / 2<br>= [ **370.5**, **370.5** ] | 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
## 1,1-Dichloroethane (ug/L) at MW-37A

| Step | Equation | Description |
|---|---|---|
| 1 | $\overline{X}$ = **sum[X]** / **N**<br>= **2.0** / **4**<br>= **0.5** | Compute the mean of the last 4 measurements. |
| 2 | S = ( (**sum[X$^2$]** - **sum[X]**$^2$/**N**) / (**N**-1) )$^{½}$<br>= ( (**1.0** - **4.0**/**4**) / (**4**-1) )$^{½}$<br>= **0.0** | Compute sd of the last 4 measurements. |
| 3 | LCL = $\overline{\mathbf{X}}$ - **tS**/**N**$^{½}$<br>= **0.5** - **2.353** * **0.0**/**4**$^{½}$<br>= **0.5** | Compute lower confidence limit for the mean of the last 4 measurements. |
| 4 | UCL = $\overline{\mathbf{X}}$ + **tS**/**N**$^{½}$<br>= **0.5** + **2.353** * **0.0**/**4**$^{½}$<br>= **0.5** | Compute upper confidence limit for the mean of the last 4 measurements. |
| 5 | N' = **N** * (**N**-1) / 2<br>= **38** * (**38**-1) / 2<br>= **703** | Number of sample pairs during trend detection period. |
| 6 | S = **0.0** | Sen's estimator of trend. |
| 7 | var(S) = **0.0** | Variance estimate for slope. |
| 8 | M(S) = (**N'** ± **Z**$_{.995}$ * **var(S)**$^{½}$) / 2<br>= (**703** ± **2.576** * **0.0**$^{½}$) / 2<br>= [ **351.5**, **351.5** ] | 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
## 1,2-Dichloropropane (ug/L) at MW-37A

| Step | Equation | Description |
|---|---|---|
| 1 | $\overline{X}$ = **sum[X]** / **N**<br>= **2.0** / **4**<br>= **0.5** | Compute the mean of the last 4 measurements. |
| 2 | S = ( (**sum[X$^2$]** - **sum[X]**$^2$/**N**) / (**N**-1) )$^{½}$<br>= ( (**1.0** - **4.0**/**4**) / (**4**-1) )$^{½}$<br>= **0.0** | Compute sd of the last 4 measurements. |
| 3 | LCL = $\overline{\mathbf{X}}$ - **tS**/**N**$^{½}$<br>= **0.5** - **2.353** * **0.0**/**4**$^{½}$<br>= **0.5** | Compute lower confidence limit for the mean of the last 4 measurements. |
| 4 | UCL = $\overline{\mathbf{X}}$ + **tS**/**N**$^{½}$<br>= **0.5** + **2.353** * **0.0**/**4**$^{½}$<br>= **0.5** | Compute upper confidence limit for the mean of the last 4 measurements. |
| 5 | N' = **N** * (**N**-1) / 2<br>= **38** * (**38**-1) / 2<br>= **703** | Number of sample pairs during trend detection period. |
| 6 | S = **0.0** | Sen's estimator of trend. |
| 7 | var(S) = **0.0** | Variance estimate for slope. |
| 8 | M(S) = (**N'** ± **Z**$_{.995}$ * **var(S)**$^{½}$) / 2<br>= (**703** ± **2.576** * **0.0**$^{½}$) / 2<br>= [ **351.5**, **351.5** ] | 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
## Acetone (ug/L) at MW-37A

| Step | Equation | Description |
|---|---|---|
| 1 | $\overline{X}$ = **sum[X]** / **N**<br>= **20.0** / **4**<br>= **5.0** | Compute the mean of the last 4 measurements. |
| 2 | S = ( (**sum[X$^2$]** - **sum[X]**$^2$/**N**) / (**N**-1) )$^{½}$<br>= ( (**100.0** - **400.0**/**4**) / (**4**-1) )$^{½}$<br>= **0.0** | Compute sd of the last 4 measurements. |
| 3 | LCL = $\overline{\mathbf{X}}$ - **tS**/**N**$^{½}$<br>= **5.0** - **2.353** * **0.0**/**4**$^{½}$<br>= **5.0** | Compute lower confidence limit for the mean of the last 4 measurements. |
| 4 | UCL = $\overline{\mathbf{X}}$ + **tS**/**N**$^{½}$<br>= **5.0** + **2.353** * **0.0**/**4**$^{½}$<br>= **5.0** | Compute upper confidence limit for the mean of the last 4 measurements. |
| 5 | N' = **N** * (**N**-1) / 2<br>= **38** * (**38**-1) / 2<br>= **703** | Number of sample pairs during trend detection period. |
| 6 | S = **0.0** | Sen's estimator of trend. |
| 7 | var(S) = **0.0** | Variance estimate for slope. |
| 8 | M(S) = (**N'** ± **Z**$_{.995}$ * **var(S)**$^{½}$) / 2<br>= (**703** ± **2.576** * **0.0**$^{½}$) / 2<br>= [ **351.5**, **351.5** ] | 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
## Benzene (ug/L) at MW-37A

| Step | Equation | Description |
|---|---|---|
| 1 | $\overline{X}$ = **sum[X]** / **N**<br>= **2.0** / **4**<br>= **0.5** | Compute the mean of the last 4 measurements. |
| 2 | S = ( (**sum[X$^2$]** - **sum[X]**$^2$/**N**) / (**N**-1) )$^{½}$<br>= ( (**1.0** - **4.0**/**4**) / (**4**-1) )$^{½}$<br>= **0.0** | Compute sd of the last 4 measurements. |
| 3 | LCL = $\overline{\mathbf{X}}$ - **tS**/**N**$^{½}$<br>= **0.5** - **2.353** * **0.0**/**4**$^{½}$<br>= **0.5** | Compute lower confidence limit for the mean of the last 4 measurements. |
| 4 | UCL = $\overline{\mathbf{X}}$ + **tS**/**N**$^{½}$<br>= **0.5** + **2.353** * **0.0**/**4**$^{½}$<br>= **0.5** | Compute upper confidence limit for the mean of the last 4 measurements. |
| 5 | N' = **N** * (**N**-1) / 2<br>= **38** * (**38**-1) / 2<br>= **703** | Number of sample pairs during trend detection period. |
| 6 | S = **0.0** | Sen's estimator of trend. |
| 7 | var(S) = **481.0** | Variance estimate for slope. |
| 8 | M(S) = (**N'** ± **Z**$_{.995}$ * **var(S)**$^{½}$) / 2<br>= (**703** ± **2.576** * **481.0**$^{½}$) / 2<br>= [ **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 | 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
## Chloroethane (ug/L) at MW-37A

| Step | Equation | Description |
|---|---|---|
| 1 | $\overline{X}$ = **sum[X]** / **N**<br>= **12.06** / **4**<br>= **3.015** | Compute the mean of the last 4 measurements. |
| 2 | S = ( (**sum[X$^2$]** - **sum[X]**$^2$/**N**) / (**N**-1) )$^{½}$<br>= ( (**36.723** - **145.444**/**4**) / (**4**-1) )$^{½}$<br>= **0.347** | Compute sd of the last 4 measurements. |
| 3 | LCL = $\overline{\mathbf{X}}$ - **tS**/**N**$^{½}$<br>= **3.015** - **2.353** * **0.347**/**4**$^{½}$<br>= **2.606** | Compute lower confidence limit for the mean of the last 4 measurements. |
| 4 | UCL = $\overline{\mathbf{X}}$ + **tS**/**N**$^{½}$<br>= **3.015** + **2.353** * **0.347**/**4**$^{½}$<br>= **3.424** | Compute upper confidence limit for the mean of the last 4 measurements. |
| 5 | N' = **N** * (**N**-1) / 2<br>= **38** * (**38**-1) / 2<br>= **703** | Number of sample pairs during trend detection period. |
| 6 | S = **-0.039** | Sen's estimator of trend. |
| 7 | var(S) = **6316.333** | Variance estimate for slope. |
| 8 | M(S) = (**N'** ± **Z**$_{.995}$ * **var(S)**$^{½}$) / 2<br>= (**703** ± **2.576** * **6316.333**$^{½}$) / 2<br>= [ **249.136**, **453.864** ] | 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) = [ **-0.189**, **0.1** ] | Two-sided confidence interval for slope. |
| 10 | the interval includes 0 | There is no significant trend. |

## Worksheet 6 - Assessment Monitoring
## cis-1,2-Dichloroethene (ug/L) at MW-37A

| Step | Equation | Description |
|---|---|---|
| 1 | $\overline{X}$ = **sum[X]** / **N**<br>= **2.0** / **4**<br>= **0.5** | Compute the mean of the last 4 measurements. |
| 2 | S = ( (**sum[X$^2$]** - **sum[X]**$^2$/**N**) / (**N**-1) )$^{½}$<br>= ( (**1.0** - **4.0**/**4**) / (**4**-1) )$^{½}$<br>= **0.0** | Compute sd of the last 4 measurements. |
| 3 | LCL = $\overline{\mathbf{X}}$ - **tS**/**N**$^{½}$<br>= **0.5** - **2.353** * **0.0**/**4**$^{½}$<br>= **0.5** | Compute lower confidence limit for the mean of the last 4 measurements. |
| 4 | UCL = $\overline{\mathbf{X}}$ + **tS**/**N**$^{½}$<br>= **0.5** + **2.353** * **0.0**/**4**$^{½}$<br>= **0.5** | Compute upper confidence limit for the mean of the last 4 measurements. |
| 5 | N' = **N** * (**N**-1) / 2<br>= **38** * (**38**-1) / 2<br>= **703** | Number of sample pairs during trend detection period. |
| 6 | S = **0.0** | Sen's estimator of trend. |
| 7 | var(S) = **0.0** | Variance estimate for slope. |
| 8 | M(S) = (**N'** ± **Z**$_{.995}$ * **var(S)**$^{½}$) / 2<br>= (**703** ± **2.576** * **0.0**$^{½}$) / 2<br>= [ **351.5**, **351.5** ] | 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
## trans-1,2-Dichloroethene (ug/L) at MW-37A

| Step | Equation | Description |
|---|---|---|
| 1 | $\overline{X}$ = **sum[X]** / **N**<br>= **2.0** / **4**<br>= **0.5** | Compute the mean of the last 4 measurements. |
| 2 | S = ( (**sum[X$^2$]** - **sum[X]**$^2$/**N**) / (**N**-1) )$^{½}$<br>= ( (**1.0** - **4.0**/**4**) / (**4**-1) )$^{½}$<br>= **0.0** | Compute sd of the last 4 measurements. |
| 3 | LCL = $\overline{\mathbf{X}}$ - **tS**/**N**$^{½}$<br>= **0.5** - **2.353** * **0.0**/**4**$^{½}$<br>= **0.5** | Compute lower confidence limit for the mean of the last 4 measurements. |
| 4 | UCL = $\overline{\mathbf{X}}$ + **tS**/**N**$^{½}$<br>= **0.5** + **2.353** * **0.0**/**4**$^{½}$<br>= **0.5** | Compute upper confidence limit for the mean of the last 4 measurements. |
| 5 | N' = **N** * (**N**-1) / 2<br>= **38** * (**38**-1) / 2<br>= **703** | Number of sample pairs during trend detection period. |
| 6 | S = **0.0** | Sen's estimator of trend. |
| 7 | var(S) = **0.0** | Variance estimate for slope. |
| 8 | M(S) = (**N'** ± **Z**$_{.995}$ * **var(S)**$^{½}$) / 2<br>= (**703** ± **2.576** * **0.0**$^{½}$) / 2<br>= [ **351.5**, **351.5** ] | 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
## Trichloroethene (ug/L) at MW-37A

| Step | Equation | Description |
|---|---|---|
| 1 | $\overline{X}$ = **sum[X]** / **N**<br>= **2.0** / **4**<br>= **0.5** | Compute the mean of the last 4 measurements. |
| 2 | S = ( (**sum[X$^2$]** - **sum[X]**$^2$/**N**) / (**N**-1) )$^{½}$<br>= ( (**1.0** - **4.0**/**4**) / (**4**-1) )$^{½}$<br>= **0.0** | Compute sd of the last 4 measurements. |
| 3 | LCL = $\overline{\mathbf{X}}$ - **tS**/**N**$^{½}$<br>= **0.5** - **2.353** * **0.0**/**4**$^{½}$<br>= **0.5** | Compute lower confidence limit for the mean of the last 4 measurements. |
| 4 | UCL = $\overline{\mathbf{X}}$ + **tS**/**N**$^{½}$<br>= **0.5** + **2.353** * **0.0**/**4**$^{½}$<br>= **0.5** | Compute upper confidence limit for the mean of the last 4 measurements. |
| 5 | N' = **N** * (**N**-1) / 2<br>= **38** * (**38**-1) / 2<br>= **703** | Number of sample pairs during trend detection period. |
| 6 | S = **0.0** | Sen's estimator of trend. |
| 7 | var(S) = **0.0** | Variance estimate for slope. |
| 8 | M(S) = (**N'** ± **Z**$_{.995}$ * **var(S)**$^{½}$) / 2<br>= (**703** ± **2.576** * **0.0**$^{½}$) / 2<br>= [ **351.5**, **351.5** ] | 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
## Vinyl chloride (ug/L) at MW-37A

| Step | Equation | Description |
|---|---|---|
| 1 | $\overline{X}$ = **sum[X]** / **N**<br>= **2.0** / **4**<br>= **0.5** | Compute the mean of the last 4 measurements. |
| 2 | S = ( (**sum[X$^2$]** - **sum[X]**$^2$/**N**) / (**N**-1) )$^{1/2}$<br>= ( (**1.0** - **4.0**/**4**) / (**4**-1) )$^{1/2}$<br>= **0.0** | Compute sd of the last 4 measurements. |
| 3 | LCL = $\overline{\mathbf{X}}$ - **tS**/**N**$^{1/2}$<br>= **0.5** - **2.353** * **0.0**/**4**$^{1/2}$<br>= **0.5** | Compute lower confidence limit for the mean of the last 4 measurements. |
| 4 | UCL = $\overline{\mathbf{X}}$ + **tS**/**N**$^{1/2}$<br>= **0.5** + **2.353** * **0.0**/**4**$^{1/2}$<br>= **0.5** | Compute upper confidence limit for the mean of the last 4 measurements. |
| 5 | N' = **N** * (**N**-1) / 2<br>= **38** * (**38**-1) / 2<br>= **703** | Number of sample pairs during trend detection period. |
| 6 | S = **0.0** | Sen's estimator of trend. |
| 7 | var(S) = **2161.667** | Variance estimate for slope. |
| 8 | M(S) = (**N'** ± **Z**$_{.995}$ * **var(S)**$^{1/2}$) / 2<br>= (**703** ± **2.576** * **2161.667**$^{1/2}$) / 2<br>= [ **291.616**, **411.384** ] | 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
## 1,1-Dichloroethane (ug/L) at MW-38A

| Step | Equation | Description |
|---|---|---|
| 1 | $\overline{X}$ = **sum[X]** / **N**<br>= **5.09** / **4**<br>= **1.273** | Compute the mean of the last 4 measurements. |
| 2 | S = ( (**sum[X$^2$]** - **sum[X]**$^2$/**N**) / (**N**-1) )$^{½}$<br>= ( (**7.5** - **25.908**/**4**) / (**4**-1) )$^{½}$<br>= **0.584** | Compute sd of the last 4 measurements. |
| 3 | LCL = $\overline{\mathbf{X}}$ - **tS**/**N**$^{½}$<br>= **1.273** - **2.353** * **0.584**/**4**$^{½}$<br>= **0.586** | Compute lower confidence limit for the mean of the last 4 measurements. |
| 4 | UCL = $\overline{\mathbf{X}}$ + **tS**/**N**$^{½}$<br>= **1.273** + **2.353** * **0.584**/**4**$^{½}$<br>= **1.959** | Compute upper confidence limit for the mean of the last 4 measurements. |
| 5 | N' = **N** * (**N**-1) / 2<br>= **38** * (**38**-1) / 2<br>= **703** | Number of sample pairs during trend detection period. |
| 6 | S = **0.0** | Sen's estimator of trend. |
| 7 | var(S) = **6110.333** | Variance estimate for slope. |
| 8 | M(S) = (**N'** ± **Z**$_{.995}$ * **var(S)**$^{½}$) / 2<br>= (**703** ± **2.576** * **6110.333**$^{½}$) / 2<br>= [ **250.819**, **452.181** ] | 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) = [ **-0.057**, **0.091** ] | Two-sided confidence interval for slope. |
| 10 | the interval includes 0 | There is no significant trend. |

## Worksheet 6 - Assessment Monitoring
## 1,2-Dichloropropane (ug/L) at MW-38A

| Step | Equation | Description |
|---|---|---|
| 1 | $\overline{X}$ = **sum[X]** / **N**<br>= **2.0** / **4**<br>= **0.5** | Compute the mean of the last 4 measurements. |
| 2 | S = ( (**sum[X$^2$]** - **sum[X]**$^2$/**N**) / (**N**-1) )$^{½}$<br>= ( (**1.0** - **4.0**/**4**) / (**4**-1) )$^{½}$<br>= **0.0** | Compute sd of the last 4 measurements. |
| 3 | LCL = $\overline{\mathbf{X}}$ - **tS**/**N**$^{½}$<br>= **0.5** - **2.353** * **0.0**/**4**$^{½}$<br>= **0.5** | Compute lower confidence limit for the mean of the last 4 measurements. |
| 4 | UCL = $\overline{\mathbf{X}}$ + **tS**/**N**$^{½}$<br>= **0.5** + **2.353** * **0.0**/**4**$^{½}$<br>= **0.5** | Compute upper confidence limit for the mean of the last 4 measurements. |
| 5 | N' = **N** * (**N**-1) / 2<br>= **38** * (**38**-1) / 2<br>= **703** | Number of sample pairs during trend detection period. |
| 6 | S = **0.0** | Sen's estimator of trend. |
| 7 | var(S) = **0.0** | Variance estimate for slope. |
| 8 | M(S) = (**N'** ± **Z**$_{.995}$ * **var(S)**$^{½}$) / 2<br>= (**703** ± **2.576** * **0.0**$^{½}$) / 2<br>= [ **351.5**, **351.5** ] | 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
## Acetone (ug/L) at MW-38A

| Step | Equation | Description |
|---|---|---|
| 1 | $\overline{X}$ = **sum[X]** / **N**<br>= **20.0** / **4**<br>= **5.0** | Compute the mean of the last 4 measurements. |
| 2 | S = ( (**sum[X$^2$]** - **sum[X]**$^2$/**N**) / (**N**-1) )$^{½}$<br>= ( (**100.0** - **400.0**/**4**) / (**4**-1) )$^{½}$<br>= **0.0** | Compute sd of the last 4 measurements. |
| 3 | LCL = $\overline{\mathbf{X}}$ - **tS**/**N**$^{½}$<br>= **5.0** - **2.353** * **0.0**/**4**$^{½}$<br>= **5.0** | Compute lower confidence limit for the mean of the last 4 measurements. |
| 4 | UCL = $\overline{\mathbf{X}}$ + **tS**/**N**$^{½}$<br>= **5.0** + **2.353** * **0.0**/**4**$^{½}$<br>= **5.0** | Compute upper confidence limit for the mean of the last 4 measurements. |
| 5 | N' = **N** * (**N**-1) / 2<br>= **38** * (**38**-1) / 2<br>= **703** | Number of sample pairs during trend detection period. |
| 6 | S = **0.0** | Sen's estimator of trend. |
| 7 | var(S) = **0.0** | Variance estimate for slope. |
| 8 | M(S) = (**N'** ± **Z**$_{.995}$ * **var(S)**$^{½}$) / 2<br>= (**703** ± **2.576** * **0.0**$^{½}$) / 2<br>= [ **351.5**, **351.5** ] | 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
## Benzene (ug/L) at MW-38A

| Step | Equation | Description |
|---|---|---|
| 1 | $\overline{X}$ = **sum[X]** / **N**<br>= **2.0** / **4**<br>= **0.5** | Compute the mean of the last 4 measurements. |
| 2 | S = ( (**sum[X$^2$]** - **sum[X]**$^2$/**N**) / (**N**-1) )$^{½}$<br>= ( (**1.0** - **4.0**/**4**) / (**4**-1) )$^{½}$<br>= **0.0** | Compute sd of the last 4 measurements. |
| 3 | LCL = $\overline{\mathbf{X}}$ - **tS**/**N**$^{½}$<br>= **0.5** - **2.353** * **0.0**/**4**$^{½}$<br>= **0.5** | Compute lower confidence limit for the mean of the last 4 measurements. |
| 4 | UCL = $\overline{\mathbf{X}}$ + **tS**/**N**$^{½}$<br>= **0.5** + **2.353** * **0.0**/**4**$^{½}$<br>= **0.5** | Compute upper confidence limit for the mean of the last 4 measurements. |
| 5 | N' = **N** * (**N**-1) / 2<br>= **38** * (**38**-1) / 2<br>= **703** | Number of sample pairs during trend detection period. |
| 6 | S = **0.0** | Sen's estimator of trend. |
| 7 | var(S) = **0.0** | Variance estimate for slope. |
| 8 | M(S) = (**N'** ± **Z**$_{.995}$ * **var(S)**$^{½}$) / 2<br>= (**703** ± **2.576** * **0.0**$^{½}$) / 2<br>= [ **351.5**, **351.5** ] | 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
## Chloroethane (ug/L) at MW-38A

| Step | Equation | Description |
|---|---|---|
| 1 | $\overline{X}$ = **sum[X]** / **N**<br>= **2.0** / **4**<br>= **0.5** | Compute the mean of the last 4 measurements. |
| 2 | S = ( (**sum[X$^2$]** - **sum[X]**$^2$/**N**) / (**N**-1) )$^{½}$<br>= ( (**1.0** - **4.0**/**4**) / (**4**-1) )$^{½}$<br>= **0.0** | Compute sd of the last 4 measurements. |
| 3 | LCL = $\overline{\mathbf{X}}$ - **tS**/**N**$^{½}$<br>= **0.5** - **2.353** * **0.0**/**4**$^{½}$<br>= **0.5** | Compute lower confidence limit for the mean of the last 4 measurements. |
| 4 | UCL = $\overline{\mathbf{X}}$ + **tS**/**N**$^{½}$<br>= **0.5** + **2.353** * **0.0**/**4**$^{½}$<br>= **0.5** | Compute upper confidence limit for the mean of the last 4 measurements. |
| 5 | N' = **N** * (**N**-1) / 2<br>= **38** * (**38**-1) / 2<br>= **703** | Number of sample pairs during trend detection period. |
| 6 | S = **0.0** | Sen's estimator of trend. |
| 7 | var(S) = **2161.667** | Variance estimate for slope. |
| 8 | M(S) = (**N'** ± **Z**$_{.995}$ * **var(S)**$^{½}$) / 2<br>= (**703** ± **2.576** * **2161.667**$^{½}$) / 2<br>= [ **291.616**, **411.384** ] | 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
## cis-1,2-Dichloroethene (ug/L) at MW-38A

| Step | Equation | Description |
|---|---|---|
| 1 | $\bar{X}$ = **sum[X]** / **N**<br>= **2.81** / **4**<br>= **0.703** | Compute the mean of the last 4 measurements. |
| 2 | S = ( (**sum[X$^2$]** - **sum[X]**$^2$/**N**) / (**N**-1) )$^{½}$<br>= ( (**2.466** - **7.896**/**4**) / (**4**-1) )$^{½}$<br>= **0.405** | Compute sd of the last 4 measurements. |
| 3 | LCL = $\bar{X}$ - **tS**/**N**$^{½}$<br>= **0.703** - **2.353** * **0.405**/**4**$^{½}$<br>= **0.226** | Compute lower confidence limit for the mean of the last 4 measurements. |
| 4 | UCL = $\bar{X}$ + **tS**/**N**$^{½}$<br>= **0.703** + **2.353** * **0.405**/**4**$^{½}$<br>= **1.179** | Compute upper confidence limit for the mean of the last 4 measurements. |
| 5 | N' = **N** * (**N**-1) / 2<br>= **38** * (**38**-1) / 2<br>= **703** | Number of sample pairs during trend detection period. |
| 6 | S = **0.0** | Sen's estimator of trend. |
| 7 | var(S) = **3484.0** | Variance estimate for slope. |
| 8 | M(S) = (**N'** ± **Z**$_{.995}$ * **var(S)**$^{½}$) / 2<br>= (**703** ± **2.576** * **3484.0**$^{½}$) / 2<br>= [ **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 | 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
## trans-1,2-Dichloroethene (ug/L) at MW-38A

| Step | Equation | Description |
|---|---|---|
| 1 | $\overline{X}$ = **sum[X]** / **N**<br>= **2.0** / **4**<br>= **0.5** | Compute the mean of the last 4 measurements. |
| 2 | S = ( (**sum[X$^2$]** - **sum[X]**$^2$/**N**) / (**N**-1) )$^{½}$<br>= ( (**1.0** - **4.0**/**4**) / (**4**-1) )$^{½}$<br>= **0.0** | Compute sd of the last 4 measurements. |
| 3 | LCL = $\overline{\mathbf{X}}$ - **tS**/**N**$^{½}$<br>= **0.5** - **2.353** * **0.0**/**4**$^{½}$<br>= **0.5** | Compute lower confidence limit for the mean of the last 4 measurements. |
| 4 | UCL = $\overline{\mathbf{X}}$ + **tS**/**N**$^{½}$<br>= **0.5** + **2.353** * **0.0**/**4**$^{½}$<br>= **0.5** | Compute upper confidence limit for the mean of the last 4 measurements. |
| 5 | N' = **N** * (**N**-1) / 2<br>= **38** * (**38**-1) / 2<br>= **703** | Number of sample pairs during trend detection period. |
| 6 | S = **0.0** | Sen's estimator of trend. |
| 7 | var(S) = **0.0** | Variance estimate for slope. |
| 8 | M(S) = (**N'** ± **Z**$_{.995}$ * **var(S)**$^{½}$) / 2<br>= (**703** ± **2.576** * **0.0**$^{½}$) / 2<br>= [ **351.5**, **351.5** ] | 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
## Trichloroethene (ug/L) at MW-38A

| Step | Equation | Description |
|---|---|---|
| 1 | $\overline{X}$ = **sum[X]** / **N**<br>= **2.0** / **4**<br>= **0.5** | Compute the mean of the last 4 measurements. |
| 2 | S = ( (**sum[X$^2$]** - **sum[X]**$^2$/**N**) / (**N**-1) )$^{½}$<br>= ( (**1.0** - **4.0**/**4**) / (**4**-1) )$^{½}$<br>= **0.0** | Compute sd of the last 4 measurements. |
| 3 | LCL = $\overline{\mathbf{X}}$ - **tS**/**N**$^{½}$<br>= **0.5** - **2.353** * **0.0**/**4**$^{½}$<br>= **0.5** | Compute lower confidence limit for the mean of the last 4 measurements. |
| 4 | UCL = $\overline{\mathbf{X}}$ + **tS**/**N**$^{½}$<br>= **0.5** + **2.353** * **0.0**/**4**$^{½}$<br>= **0.5** | Compute upper confidence limit for the mean of the last 4 measurements. |
| 5 | N' = **N** * (**N**-1) / 2<br>= **38** * (**38**-1) / 2<br>= **703** | Number of sample pairs during trend detection period. |
| 6 | S = **0.0** | Sen's estimator of trend. |
| 7 | var(S) = **0.0** | Variance estimate for slope. |
| 8 | M(S) = (**N'** ± **Z**$_{.995}$ * **var(S)**$^{½}$) / 2<br>= (**703** ± **2.576** * **0.0**$^{½}$) / 2<br>= [ **351.5**, **351.5** ] | 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
## Vinyl chloride (ug/L) at MW-38A

| Step | Equation | Description |
|---|---|---|
| 1 | $\overline{X}$ = **sum[X]** / **N**<br>= **2.0** / **4**<br>= **0.5** | Compute the mean of the last 4 measurements. |
| 2 | S = ( (**sum[X$^2$]** - **sum[X]**$^2$/**N**) / (**N**-1) )$^{1/2}$<br>= ( (**1.0** - **4.0**/**4**) / (**4**-1) )$^{1/2}$<br>= **0.0** | Compute sd of the last 4 measurements. |
| 3 | LCL = $\overline{\mathbf{X}}$ - **tS**/**N**$^{1/2}$<br>= **0.5** - **2.353** * **0.0**/**4**$^{1/2}$<br>= **0.5** | Compute lower confidence limit for the mean of the last 4 measurements. |
| 4 | UCL = $\overline{\mathbf{X}}$ + **tS**/**N**$^{1/2}$<br>= **0.5** + **2.353** * **0.0**/**4**$^{1/2}$<br>= **0.5** | Compute upper confidence limit for the mean of the last 4 measurements. |
| 5 | N' = **N** * (**N**-1) / 2<br>= **38** * (**38**-1) / 2<br>= **703** | Number of sample pairs during trend detection period. |
| 6 | S = **0.0** | Sen's estimator of trend. |
| 7 | var(S) = **1368.667** | Variance estimate for slope. |
| 8 | M(S) = (**N'** ± **Z**$_{.995}$ * **var(S)**$^{1/2}$) / 2<br>= (**703** ± **2.576** * **1368.667**$^{1/2}$) / 2<br>= [ **303.85**, **399.15** ] | 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. |

# Appendix D Pace National Analytical Reports (Fall 2025 Semi-Annual Event and MW-41 October, November, and December 2025 Background Events)

# ANALYTICAL REPORT

November 19, 2025



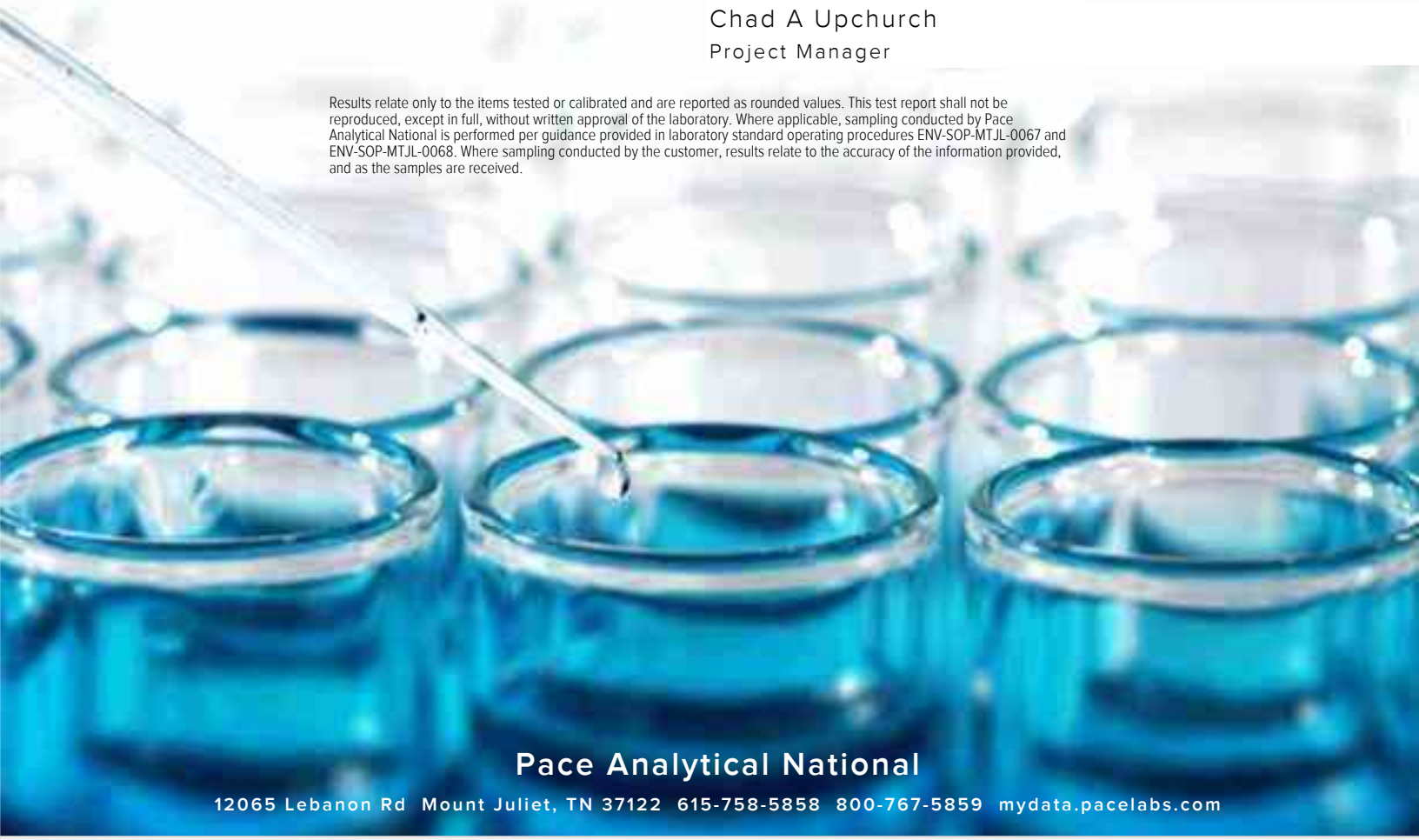
## Dickinson Landfill

| | |
|---|---|
| Sample Delivery Group: | L1908099 |
| Samples Received: | 10/15/2025 |
| Project Number: | 200 |
| Description: | Semiannual GW Detection (10-11) |
| Site: | IA01 |
| Report To: | Andy McCain<br>C/O Spruce Ridge 12755 137th Street<br>Glencoe, MN 55336 |

Entire Report Reviewed By:

Chad A Upchurch
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



Pace Analytical National
12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 mydata.pacelabs.com

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## MW-40A L1908099-01

Collected by: Dylan S. | Collected date/time: 10/14/25 11:22 | Received date/time: 10/15/25 09:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Gravimetric Analysis by Method 2540 D-2011 | WG2622032 | 1 | 10/17/25 19:05 | 10/17/25 20:43 | AMG | Mt. Juliet, TN |
| Metals (ICP) by Method 6010C | WG2621405 | 1 | 10/16/25 10:33 | 10/16/25 14:29 | NMM | Mt. Juliet, TN |
| Metals (ICPMS) by Method 6020A | WG2620661 | 1 | 10/15/25 19:55 | 11/14/25 17:00 | TMT | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG2621481 | 1 | 10/20/25 12:15 | 10/20/25 12:15 | BRA | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG2623434 | 1 | 10/19/25 13:04 | 10/19/25 13:04 | ACG | Mt. Juliet, TN |

## MW-39A L1908099-02

Collected by: Dylan S. | Collected date/time: 10/14/25 10:30 | Received date/time: 10/15/25 09:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Gravimetric Analysis by Method 2540 D-2011 | WG2622011 | 1 | 10/16/25 18:27 | 10/16/25 20:26 | ARD | Mt. Juliet, TN |
| Metals (ICP) by Method 6010C | WG2621405 | 1 | 10/16/25 10:33 | 10/16/25 14:31 | NMM | Mt. Juliet, TN |
| Metals (ICPMS) by Method 6020A | WG2620661 | 1 | 10/15/25 19:55 | 11/14/25 17:09 | TMT | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG2621481 | 1 | 10/20/25 12:37 | 10/20/25 12:37 | BRA | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG2623434 | 1 | 10/19/25 13:23 | 10/19/25 13:23 | ACG | Mt. Juliet, TN |

## MW-38A L1908099-03

Collected by: Dylan S. | Collected date/time: 10/14/25 12:08 | Received date/time: 10/15/25 09:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Gravimetric Analysis by Method 2540 D-2011 | WG2622011 | 1 | 10/16/25 18:27 | 10/16/25 20:26 | ARD | Mt. Juliet, TN |
| Metals (ICP) by Method 6010C | WG2621405 | 1 | 10/16/25 10:33 | 10/16/25 14:33 | NMM | Mt. Juliet, TN |
| Metals (ICPMS) by Method 6020A | WG2620661 | 1 | 10/15/25 19:55 | 11/14/25 17:13 | TMT | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG2621481 | 1 | 10/20/25 12:58 | 10/20/25 12:58 | BRA | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG2623434 | 1 | 10/19/25 13:42 | 10/19/25 13:42 | ACG | Mt. Juliet, TN |

## MW-37A L1908099-04

Collected by: Dylan S. | Collected date/time: 10/14/25 11:35 | Received date/time: 10/15/25 09:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Gravimetric Analysis by Method 2540 D-2011 | WG2622032 | 1 | 10/17/25 19:05 | 10/17/25 20:43 | AMG | Mt. Juliet, TN |
| Metals (ICP) by Method 6010C | WG2621405 | 1 | 10/16/25 10:33 | 10/16/25 14:35 | NMM | Mt. Juliet, TN |
| Metals (ICPMS) by Method 6020A | WG2620661 | 1 | 10/15/25 19:55 | 11/14/25 17:16 | TMT | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG2621481 | 1 | 10/20/25 13:19 | 10/20/25 13:19 | BRA | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG2623434 | 1 | 10/19/25 14:02 | 10/19/25 14:02 | ACG | Mt. Juliet, TN |

## MW-23A L1908099-06

Collected by: Dylan S. | Collected date/time: 10/14/25 11:04 | Received date/time: 10/15/25 09:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Gravimetric Analysis by Method 2540 D-2011 | WG2622032 | 1 | 10/17/25 19:05 | 10/17/25 20:43 | AMG | Mt. Juliet, TN |
| Metals (ICP) by Method 6010C | WG2621405 | 1 | 10/16/25 10:33 | 10/16/25 14:38 | NMM | Mt. Juliet, TN |
| Metals (ICPMS) by Method 6020A | WG2620661 | 1 | 10/15/25 19:55 | 11/14/25 17:19 | TMT | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG2621481 | 1 | 10/20/25 13:40 | 10/20/25 13:40 | BRA | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG2623434 | 1 | 10/19/25 14:21 | 10/19/25 14:21 | ACG | Mt. Juliet, TN |

## MW-21A L1908099-07

Collected by: Dylan S. | Collected date/time: 10/14/25 11:50 | Received date/time: 10/15/25 09:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Gravimetric Analysis by Method 2540 D-2011 | WG2622032 | 1 | 10/17/25 19:05 | 10/17/25 20:43 | AMG | Mt. Juliet, TN |
| Metals (ICP) by Method 6010C | WG2621405 | 1 | 10/16/25 10:33 | 10/16/25 14:40 | NMM | Mt. Juliet, TN |
| Metals (ICPMS) by Method 6020A | WG2620661 | 1 | 10/15/25 19:55 | 11/14/25 17:22 | TMT | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG2621481 | 1 | 10/20/25 14:02 | 10/20/25 14:02 | BRA | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG2623434 | 1 | 10/19/25 14:40 | 10/19/25 14:40 | ACG | Mt. Juliet, TN |

## MW-19A L1908099-08

Collected by: Dylan S. | Collected date/time: 10/14/25 11:52 | Received date/time: 10/15/25 09:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Gravimetric Analysis by Method 2540 D-2011 | WG2622032 | 1 | 10/17/25 19:05 | 10/17/25 20:43 | AMG | Mt. Juliet, TN |
| Metals (ICP) by Method 6010C | WG2621405 | 1 | 10/16/25 10:33 | 10/16/25 14:42 | NMM | Mt. Juliet, TN |
| Metals (ICPMS) by Method 6020A | WG2621503 | 1 | 10/16/25 19:24 | 11/19/25 13:09 | UNP | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG2621481 | 1 | 10/20/25 14:22 | 10/20/25 14:22 | BRA | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG2623434 | 1 | 10/19/25 14:59 | 10/19/25 14:59 | ACG | Mt. Juliet, TN |

## MW-13A L1908099-09

Collected by: Dylan S. | Collected date/time: 10/14/25 10:24 | Received date/time: 10/15/25 09:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Gravimetric Analysis by Method 2540 D-2011 | WG2622032 | 1 | 10/17/25 19:05 | 10/17/25 20:43 | AMG | Mt. Juliet, TN |
| Metals (ICP) by Method 6010C | WG2621405 | 1 | 10/16/25 10:33 | 10/16/25 14:45 | NMM | Mt. Juliet, TN |
| Metals (ICPMS) by Method 6020A | WG2621503 | 1 | 10/16/25 19:24 | 11/19/25 13:12 | UNP | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG2621481 | 1 | 10/20/25 14:43 | 10/20/25 14:43 | BRA | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG2623434 | 1 | 10/19/25 15:18 | 10/19/25 15:18 | ACG | Mt. Juliet, TN |

## MW-12A L1908099-10

Collected by: Dylan S. | Collected date/time: 10/14/25 11:11 | Received date/time: 10/15/25 09:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Gravimetric Analysis by Method 2540 D-2011 | WG2622011 | 1 | 10/16/25 18:27 | 10/16/25 20:26 | ARD | Mt. Juliet, TN |
| Metals (ICP) by Method 6010C | WG2621405 | 1 | 10/16/25 10:33 | 10/16/25 14:47 | NMM | Mt. Juliet, TN |
| Metals (ICPMS) by Method 6020A | WG2621503 | 1 | 10/16/25 19:24 | 11/19/25 13:15 | UNP | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG2621481 | 1 | 10/20/25 15:05 | 10/20/25 15:05 | BRA | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG2623434 | 1 | 10/19/25 15:37 | 10/19/25 15:37 | ACG | Mt. Juliet, TN |

## MW-11A L1908099-11

Collected by: Dylan S. | Collected date/time: 10/14/25 10:35 | Received date/time: 10/15/25 09:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Gravimetric Analysis by Method 2540 D-2011 | WG2622032 | 1 | 10/17/25 19:05 | 10/17/25 20:43 | AMG | Mt. Juliet, TN |
| Metals (ICP) by Method 6010C | WG2621405 | 1 | 10/16/25 10:33 | 10/16/25 14:54 | NMM | Mt. Juliet, TN |
| Metals (ICPMS) by Method 6020A | WG2621503 | 1 | 10/16/25 19:24 | 11/19/25 13:18 | UNP | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG2621481 | 1 | 10/20/25 15:26 | 10/20/25 15:26 | BRA | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG2623434 | 1 | 10/19/25 15:56 | 10/19/25 15:56 | ACG | Mt. Juliet, TN |

## HOLDING POND L1908099-12

Collected by: Dylan S.
Collected date/time: 10/14/25 12:25
Received date/time: 10/15/25 09:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Gravimetric Analysis by Method 2540 D-2011 | WG2622032 | 1 | 10/17/25 19:05 | 10/17/25 20:43 | AMG | Mt. Juliet, TN |
| Metals (ICP) by Method 6010C | WG2621405 | 1 | 10/16/25 10:33 | 10/16/25 14:56 | NMM | Mt. Juliet, TN |
| Metals (ICPMS) by Method 6020A | WG2621503 | 1 | 10/16/25 19:24 | 11/19/25 13:21 | UNP | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG2621481 | 1 | 10/20/25 15:47 | 10/20/25 15:47 | BRA | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG2623434 | 1 | 10/19/25 16:15 | 10/19/25 16:15 | ACG | Mt. Juliet, TN |

## FIELD BLANK L1908099-13

Collected by: Dylan S.
Collected date/time: 10/14/25 10:15
Received date/time: 10/15/25 09:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG2621481 | 1 | 10/20/25 16:08 | 10/20/25 16:08 | BRA | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG2623434 | 1 | 10/19/25 12:26 | 10/19/25 12:26 | ACG | Mt. Juliet, TN |

## TRIP BLANK L1908099-14

Collected by: Dylan S.
Collected date/time: 10/14/25 08:00
Received date/time: 10/15/25 09:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG2621481 | 1 | 10/20/25 11:32 | 10/20/25 11:32 | BRA | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG2623434 | 1 | 10/19/25 11:29 | 10/19/25 11:29 | ACG | Mt. Juliet, TN |

Unless qualified or notated within the narrative below, all sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Chad A Upchurch
Project Manager

## Project Comments

The requested project specific reporting limits may be less than laboratory standard quantitation limits (PQL) but will be greater than or equal to the laboratory method detection limits (MDL). It is noted that results reported below lab standard quantitation limits (PQLs) may result in false positive/false negative values that may require additional laboratory quality assurance review, if requested. Routine laboratory procedures do not initiate a data review process for detections below the laboratory's PQL unless requested by the client.

## Volatile Organic Compounds (GC/MS) by Method 8260C

The reported concentration is an estimate. The continuing calibration standard associated with this data responded low. Method sensitivity check is acceptable.

| Batch | Lab Sample ID | Analytes |
|---|---|---|
| WG2623434 | L1908099-01 | Dibromochloromethane and trans-1,4-Dichloro-2-butene |
| WG2623434 | L1908099-02 | Dibromochloromethane and trans-1,4-Dichloro-2-butene |
| WG2623434 | L1908099-03 | Dibromochloromethane and trans-1,4-Dichloro-2-butene |
| WG2623434 | L1908099-04 | Dibromochloromethane and trans-1,4-Dichloro-2-butene |
| WG2623434 | L1908099-06 | Dibromochloromethane and trans-1,4-Dichloro-2-butene |
| WG2623434 | L1908099-07 | Dibromochloromethane and trans-1,4-Dichloro-2-butene |
| WG2623434 | L1908099-08 | Dibromochloromethane and trans-1,4-Dichloro-2-butene |
| WG2623434 | L1908099-09 | Dibromochloromethane and trans-1,4-Dichloro-2-butene |
| WG2623434 | L1908099-10 | Dibromochloromethane and trans-1,4-Dichloro-2-butene |
| WG2623434 | L1908099-11 | Dibromochloromethane and trans-1,4-Dichloro-2-butene |
| WG2623434 | L1908099-12 | Dibromochloromethane and trans-1,4-Dichloro-2-butene |
| WG2623434 | L1908099-13 | Dibromochloromethane and trans-1,4-Dichloro-2-butene |
| WG2623434 | L1908099-14 | Dibromochloromethane and trans-1,4-Dichloro-2-butene |

## Additional Information - Results for field analyses are not accredited to ISO 17025

| Analyte | Result | Units |
|---|---|---|
| Depth to water (DTW) (FROM TOC) | 18.14 | ftmsl |
| pH (On Site) | 7.15 | su |
| Specific Conductance (on site) | 684 | umhos/cm |
| Temperature (on-site) | 12.1 | Deg. C |
| Turbidity (on-site) | 16.5 | NTU |
| Dissolved Oxygen (on-site) | 8.2 | mg/l |
| eH/ORP ( On Site ) | 119.3 | mV |

## Gravimetric Analysis by Method 2540 D-2011

| Analyte | Result mg/l | Qualifier | RL mg/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|
| Suspended Solids | 19.2 | | 2.50 | 1 | 10/17/2025 20:43 | WG2622032 |

## Metals (ICP) by Method 6010C

| Analyte | Result mg/l | Qualifier | RL mg/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|
| Silver | ND | | 0.0100 | 1 | 10/16/2025 14:29 | WG2621405 |
| Arsenic | ND | | 0.0100 | 1 | 10/16/2025 14:29 | WG2621405 |
| Barium | 0.274 | | 0.0200 | 1 | 10/16/2025 14:29 | WG2621405 |
| Beryllium | ND | | 0.00400 | 1 | 10/16/2025 14:29 | WG2621405 |
| Cadmium | ND | | 0.00500 | 1 | 10/16/2025 14:29 | WG2621405 |
| Chromium | ND | | 0.0100 | 1 | 10/16/2025 14:29 | WG2621405 |
| Copper | ND | | 0.0100 | 1 | 10/16/2025 14:29 | WG2621405 |
| Nickel | ND | | 0.0100 | 1 | 10/16/2025 14:29 | WG2621405 |
| Lead | ND | | 0.0100 | 1 | 10/16/2025 14:29 | WG2621405 |
| Vanadium | ND | | 0.0200 | 1 | 10/16/2025 14:29 | WG2621405 |
| Zinc | ND | | 0.0500 | 1 | 10/16/2025 14:29 | WG2621405 |

## Metals (ICPMS) by Method 6020A

| Analyte | Result mg/l | Qualifier | RL mg/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|
| Cobalt | ND | | 0.00200 | 1 | 11/14/2025 17:00 | WG2620661 |
| Antimony | ND | | 0.00600 | 1 | 11/14/2025 17:00 | WG2620661 |
| Selenium | ND | | 0.0100 | 1 | 11/14/2025 17:00 | WG2620661 |
| Thallium | ND | | 0.00200 | 1 | 11/14/2025 17:00 | WG2620661 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result ug/l | Qualifier | RL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | | 1.00 | 1 | 10/19/2025 13:04 | WG2623434 |
| 1,2,3-Trichloropropane | ND | | 0.00580 | 1 | 10/20/2025 12:15 | WG2621481 |
| 1,1,1-Trichloroethane | ND | | 1.00 | 1 | 10/19/2025 13:04 | WG2623434 |
| 1,2-Dibromo-3-Chloropropane | ND | | 0.200 | 1 | 10/20/2025 12:15 | WG2621481 |
| 1,1,2,2-Tetrachloroethane | ND | | 0.300 | 1 | 10/19/2025 13:04 | WG2623434 |
| 1,2-Dibromoethane | ND | | 0.0500 | 1 | 10/20/2025 12:15 | WG2621481 |
| 1,1,2-Trichloroethane | ND | | 1.00 | 1 | 10/19/2025 13:04 | WG2623434 |
| 1,1-Dichloroethane | ND | | 1.00 | 1 | 10/19/2025 13:04 | WG2623434 |
| 1,1-Dichloroethene | ND | | 1.00 | 1 | 10/19/2025 13:04 | WG2623434 |
| 1,2-Dichlorobenzene | ND | | 1.00 | 1 | 10/19/2025 13:04 | WG2623434 |
| 1,2-Dichloroethane | ND | | 1.00 | 1 | 10/19/2025 13:04 | WG2623434 |
| 1,2-Dichloropropane | ND | | 1.00 | 1 | 10/19/2025 13:04 | WG2623434 |
| 1,4-Dichlorobenzene | ND | | 1.00 | 1 | 10/19/2025 13:04 | WG2623434 |
| 2-Butanone (MEK) | ND | | 10.0 | 1 | 10/19/2025 13:04 | WG2623434 |
| 2-Hexanone | ND | | 5.00 | 1 | 10/19/2025 13:04 | WG2623434 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result ug/l | Qualifier | RL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.00 | 1 | 10/19/2025 13:04 | WG2623434 |
| Acetone | ND | | 25.0 | 1 | 10/19/2025 13:04 | WG2623434 |
| Acrylonitrile | ND | | 0.320 | 1 | 10/19/2025 13:04 | WG2623434 |
| Benzene | ND | | 1.00 | 1 | 10/19/2025 13:04 | WG2623434 |
| Bromochloromethane | ND | | 1.00 | 1 | 10/19/2025 13:04 | WG2623434 |
| Bromodichloromethane | ND | | 1.00 | 1 | 10/19/2025 13:04 | WG2623434 |
| Bromoform | ND | | 1.00 | 1 | 10/19/2025 13:04 | WG2623434 |
| Bromomethane | ND | | 2.50 | 1 | 10/19/2025 13:04 | WG2623434 |
| Carbon disulfide | ND | | 1.00 | 1 | 10/19/2025 13:04 | WG2623434 |
| Carbon tetrachloride | ND | | 1.00 | 1 | 10/19/2025 13:04 | WG2623434 |
| Chlorobenzene | ND | | 1.00 | 1 | 10/19/2025 13:04 | WG2623434 |
| Chloroethane | ND | | 2.50 | 1 | 10/19/2025 13:04 | WG2623434 |
| Chloroform | ND | | 1.00 | 1 | 10/19/2025 13:04 | WG2623434 |
| Chloromethane | ND | | 1.25 | 1 | 10/19/2025 13:04 | WG2623434 |
| Dibromochloromethane | ND | C3 | 1.00 | 1 | 10/19/2025 13:04 | WG2623434 |
| Dibromomethane | ND | | 1.00 | 1 | 10/19/2025 13:04 | WG2623434 |
| Ethylbenzene | ND | | 1.00 | 1 | 10/19/2025 13:04 | WG2623434 |
| Iodomethane | ND | | 10.0 | 1 | 10/19/2025 13:04 | WG2623434 |
| Methylene Chloride | ND | | 2.50 | 1 | 10/19/2025 13:04 | WG2623434 |
| Styrene | ND | | 1.00 | 1 | 10/19/2025 13:04 | WG2623434 |
| Tetrachloroethene | ND | | 1.00 | 1 | 10/19/2025 13:04 | WG2623434 |
| Toluene | ND | | 1.00 | 1 | 10/19/2025 13:04 | WG2623434 |
| Trichloroethene | ND | | 1.00 | 1 | 10/19/2025 13:04 | WG2623434 |
| Trichlorofluoromethane | ND | | 2.50 | 1 | 10/19/2025 13:04 | WG2623434 |
| Vinyl acetate | ND | | 5.00 | 1 | 10/19/2025 13:04 | WG2623434 |
| Vinyl chloride | ND | | 1.00 | 1 | 10/19/2025 13:04 | WG2623434 |
| Xylenes, Total | ND | | 3.00 | 1 | 10/19/2025 13:04 | WG2623434 |
| cis-1,2-Dichloroethene | ND | | 1.00 | 1 | 10/19/2025 13:04 | WG2623434 |
| cis-1,3-Dichloropropene | ND | | 1.00 | 1 | 10/19/2025 13:04 | WG2623434 |
| trans-1,2-Dichloroethene | ND | | 1.00 | 1 | 10/19/2025 13:04 | WG2623434 |
| trans-1,3-Dichloropropene | ND | | 1.00 | 1 | 10/19/2025 13:04 | WG2623434 |
| trans-1,4-Dichloro-2-butene | ND | C3 | 1.00 | 1 | 10/19/2025 13:04 | WG2623434 |
| *(S) 4-Bromofluorobenzene* | *99.6* | | | *67.0-138* | *10/19/2025 13:04* | WG2623434 |
| *(S) Toluene-d8* | *96.4* | | | *75.0-131* | *10/19/2025 13:04* | WG2623434 |
| *(S) 1,2-Dichloroethane-d4* | *102* | | | *70.0-130* | *10/19/2025 13:04* | WG2623434 |

## Additional Information - Results for field analyses are not accredited to ISO 17025

| Analyte | Result | Units |
|---|---|---|
| Depth to water (DTW) (FROM TOC) | 14.65 | ftmsl |
| pH (On Site) | 7.1 | su |
| Specific Conductance (on site) | 824 | umhos/cm |
| Temperature (on-site) | 10.9 | Deg. C |
| Turbidity (on-site) | 4.9 | NTU |
| Dissolved Oxygen (on-site) | 10.8 | mg/l |
| eH/ORP ( On Site ) | 124.4 | mV |

## Gravimetric Analysis by Method 2540 D-2011

| Analyte | Result | Qualifier | RL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|
| | mg/l | | mg/l | | date / time | |
| Suspended Solids | 4.80 | | 2.50 | 1 | 10/16/2025 20:26 | WG2622011 |

## Metals (ICP) by Method 6010C

| Analyte | Result | Qualifier | RL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|
| | mg/l | | mg/l | | date / time | |
| Silver | ND | | 0.0100 | 1 | 10/16/2025 14:31 | WG2621405 |
| Arsenic | ND | | 0.0100 | 1 | 10/16/2025 14:31 | WG2621405 |
| Barium | 0.267 | | 0.0200 | 1 | 10/16/2025 14:31 | WG2621405 |
| Beryllium | ND | | 0.00400 | 1 | 10/16/2025 14:31 | WG2621405 |
| Cadmium | ND | | 0.00500 | 1 | 10/16/2025 14:31 | WG2621405 |
| Chromium | ND | | 0.0100 | 1 | 10/16/2025 14:31 | WG2621405 |
| Copper | ND | | 0.0100 | 1 | 10/16/2025 14:31 | WG2621405 |
| Nickel | ND | | 0.0100 | 1 | 10/16/2025 14:31 | WG2621405 |
| Lead | ND | | 0.0100 | 1 | 10/16/2025 14:31 | WG2621405 |
| Vanadium | ND | | 0.0200 | 1 | 10/16/2025 14:31 | WG2621405 |
| Zinc | ND | | 0.0500 | 1 | 10/16/2025 14:31 | WG2621405 |

## Metals (ICPMS) by Method 6020A

| Analyte | Result | Qualifier | RL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|
| | mg/l | | mg/l | | date / time | |
| Cobalt | ND | | 0.00200 | 1 | 11/14/2025 17:09 | WG2620661 |
| Antimony | ND | | 0.00600 | 1 | 11/14/2025 17:09 | WG2620661 |
| Selenium | ND | | 0.0100 | 1 | 11/14/2025 17:09 | WG2620661 |
| Thallium | ND | | 0.00200 | 1 | 11/14/2025 17:09 | WG2620661 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result | Qualifier | RL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|
| | ug/l | | ug/l | | date / time | |
| 1,1,1,2-Tetrachloroethane | ND | | 1.00 | 1 | 10/19/2025 13:23 | WG2623434 |
| 1,2,3-Trichloropropane | ND | | 0.00580 | 1 | 10/20/2025 12:37 | WG2621481 |
| 1,1,1-Trichloroethane | ND | | 1.00 | 1 | 10/19/2025 13:23 | WG2623434 |
| 1,2-Dibromo-3-Chloropropane | ND | | 0.200 | 1 | 10/20/2025 12:37 | WG2621481 |
| 1,1,2,2-Tetrachloroethane | ND | | 0.300 | 1 | 10/19/2025 13:23 | WG2623434 |
| 1,2-Dibromoethane | ND | | 0.0500 | 1 | 10/20/2025 12:37 | WG2621481 |
| 1,1,2-Trichloroethane | ND | | 1.00 | 1 | 10/19/2025 13:23 | WG2623434 |
| 1,1-Dichloroethane | ND | | 1.00 | 1 | 10/19/2025 13:23 | WG2623434 |
| 1,1-Dichloroethene | ND | | 1.00 | 1 | 10/19/2025 13:23 | WG2623434 |
| 1,2-Dichlorobenzene | ND | | 1.00 | 1 | 10/19/2025 13:23 | WG2623434 |
| 1,2-Dichloroethane | ND | | 1.00 | 1 | 10/19/2025 13:23 | WG2623434 |
| 1,2-Dichloropropane | ND | | 1.00 | 1 | 10/19/2025 13:23 | WG2623434 |
| 1,4-Dichlorobenzene | ND | | 1.00 | 1 | 10/19/2025 13:23 | WG2623434 |
| 2-Butanone (MEK) | ND | | 10.0 | 1 | 10/19/2025 13:23 | WG2623434 |
| 2-Hexanone | ND | | 5.00 | 1 | 10/19/2025 13:23 | WG2623434 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result ug/l | Qualifier | RL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.00 | 1 | 10/19/2025 13:23 | WG2623434 |
| Acetone | ND | | 25.0 | 1 | 10/19/2025 13:23 | WG2623434 |
| Acrylonitrile | ND | | 0.320 | 1 | 10/19/2025 13:23 | WG2623434 |
| Benzene | ND | | 1.00 | 1 | 10/19/2025 13:23 | WG2623434 |
| Bromochloromethane | ND | | 1.00 | 1 | 10/19/2025 13:23 | WG2623434 |
| Bromodichloromethane | ND | | 1.00 | 1 | 10/19/2025 13:23 | WG2623434 |
| Bromoform | ND | | 1.00 | 1 | 10/19/2025 13:23 | WG2623434 |
| Bromomethane | ND | | 2.50 | 1 | 10/19/2025 13:23 | WG2623434 |
| Carbon disulfide | ND | | 1.00 | 1 | 10/19/2025 13:23 | WG2623434 |
| Carbon tetrachloride | ND | | 1.00 | 1 | 10/19/2025 13:23 | WG2623434 |
| Chlorobenzene | ND | | 1.00 | 1 | 10/19/2025 13:23 | WG2623434 |
| Chloroethane | ND | | 2.50 | 1 | 10/19/2025 13:23 | WG2623434 |
| Chloroform | ND | | 1.00 | 1 | 10/19/2025 13:23 | WG2623434 |
| Chloromethane | ND | | 1.25 | 1 | 10/19/2025 13:23 | WG2623434 |
| Dibromochloromethane | ND | C3 | 1.00 | 1 | 10/19/2025 13:23 | WG2623434 |
| Dibromomethane | ND | | 1.00 | 1 | 10/19/2025 13:23 | WG2623434 |
| Ethylbenzene | ND | | 1.00 | 1 | 10/19/2025 13:23 | WG2623434 |
| Iodomethane | ND | | 10.0 | 1 | 10/19/2025 13:23 | WG2623434 |
| Methylene Chloride | ND | | 2.50 | 1 | 10/19/2025 13:23 | WG2623434 |
| Styrene | ND | | 1.00 | 1 | 10/19/2025 13:23 | WG2623434 |
| Tetrachloroethene | ND | | 1.00 | 1 | 10/19/2025 13:23 | WG2623434 |
| Toluene | ND | | 1.00 | 1 | 10/19/2025 13:23 | WG2623434 |
| Trichloroethene | ND | | 1.00 | 1 | 10/19/2025 13:23 | WG2623434 |
| Trichlorofluoromethane | ND | | 2.50 | 1 | 10/19/2025 13:23 | WG2623434 |
| Vinyl acetate | ND | | 5.00 | 1 | 10/19/2025 13:23 | WG2623434 |
| Vinyl chloride | ND | | 1.00 | 1 | 10/19/2025 13:23 | WG2623434 |
| Xylenes, Total | ND | | 3.00 | 1 | 10/19/2025 13:23 | WG2623434 |
| cis-1,2-Dichloroethene | ND | | 1.00 | 1 | 10/19/2025 13:23 | WG2623434 |
| cis-1,3-Dichloropropene | ND | | 1.00 | 1 | 10/19/2025 13:23 | WG2623434 |
| trans-1,2-Dichloroethene | ND | | 1.00 | 1 | 10/19/2025 13:23 | WG2623434 |
| trans-1,3-Dichloropropene | ND | | 1.00 | 1 | 10/19/2025 13:23 | WG2623434 |
| trans-1,4-Dichloro-2-butene | ND | C3 | 1.00 | 1 | 10/19/2025 13:23 | WG2623434 |
| *(S) 4-Bromofluorobenzene* | *90.6* | | | *67.0-138* | *10/19/2025 13:23* | WG2623434 |
| *(S) Toluene-d8* | *99.2* | | | *75.0-131* | *10/19/2025 13:23* | WG2623434 |
| *(S) 1,2-Dichloroethane-d4* | *95.5* | | | *70.0-130* | *10/19/2025 13:23* | WG2623434 |

## Additional Information - Results for field analyses are not accredited to ISO 17025

| Analyte | Result | Units |
|---|---|---|
| Depth to water (DTW) (FROM TOC) | 16.71 | ftmsl |
| pH (On Site) | 6.77 | su |
| Specific Conductance (on site) | 1139 | umhos/cm |
| Temperature (on-site) | 11.5 | Deg. C |
| Turbidity (on-site) | 0 | NTU |
| Dissolved Oxygen (on-site) | 0.5 | mg/l |
| eH/ORP ( On Site ) | 40.5 | mV |

## Gravimetric Analysis by Method 2540 D-2011

| Analyte | Result | Qualifier | RL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|
| | mg/l | | mg/l | | date / time | |
| Suspended Solids | ND | | 2.50 | 1 | 10/16/2025 20:26 | WG2622011 |

## Metals (ICP) by Method 6010C

| Analyte | Result | Qualifier | RL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|
| | mg/l | | mg/l | | date / time | |
| Silver | ND | | 0.0100 | 1 | 10/16/2025 14:33 | WG2621405 |
| Arsenic | ND | | 0.0100 | 1 | 10/16/2025 14:33 | WG2621405 |
| Barium | 0.204 | | 0.0200 | 1 | 10/16/2025 14:33 | WG2621405 |
| Beryllium | ND | | 0.00400 | 1 | 10/16/2025 14:33 | WG2621405 |
| Cadmium | ND | | 0.00500 | 1 | 10/16/2025 14:33 | WG2621405 |
| Chromium | ND | | 0.0100 | 1 | 10/16/2025 14:33 | WG2621405 |
| Copper | ND | | 0.0100 | 1 | 10/16/2025 14:33 | WG2621405 |
| Nickel | 0.0315 | | 0.0100 | 1 | 10/16/2025 14:33 | WG2621405 |
| Lead | ND | | 0.0100 | 1 | 10/16/2025 14:33 | WG2621405 |
| Vanadium | ND | | 0.0200 | 1 | 10/16/2025 14:33 | WG2621405 |
| Zinc | ND | | 0.0500 | 1 | 10/16/2025 14:33 | WG2621405 |

## Metals (ICPMS) by Method 6020A

| Analyte | Result | Qualifier | RL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|
| | mg/l | | mg/l | | date / time | |
| Cobalt | ND | | 0.00200 | 1 | 11/14/2025 17:13 | WG2620661 |
| Antimony | ND | | 0.00600 | 1 | 11/14/2025 17:13 | WG2620661 |
| Selenium | ND | | 0.0100 | 1 | 11/14/2025 17:13 | WG2620661 |
| Thallium | ND | | 0.00200 | 1 | 11/14/2025 17:13 | WG2620661 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result | Qualifier | RL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|
| | ug/l | | ug/l | | date / time | |
| 1,1,1,2-Tetrachloroethane | ND | | 1.00 | 1 | 10/19/2025 13:42 | WG2623434 |
| 1,2,3-Trichloropropane | ND | | 0.00580 | 1 | 10/20/2025 12:58 | WG2621481 |
| 1,1,1-Trichloroethane | ND | | 1.00 | 1 | 10/19/2025 13:42 | WG2623434 |
| 1,2-Dibromo-3-Chloropropane | ND | | 0.200 | 1 | 10/20/2025 12:58 | WG2621481 |
| 1,1,2,2-Tetrachloroethane | ND | | 0.300 | 1 | 10/19/2025 13:42 | WG2623434 |
| 1,2-Dibromoethane | ND | | 0.0500 | 1 | 10/20/2025 12:58 | WG2621481 |
| 1,1,2-Trichloroethane | ND | | 1.00 | 1 | 10/19/2025 13:42 | WG2623434 |
| 1,1-Dichloroethane | ND | | 1.00 | 1 | 10/19/2025 13:42 | WG2623434 |
| 1,1-Dichloroethene | ND | | 1.00 | 1 | 10/19/2025 13:42 | WG2623434 |
| 1,2-Dichlorobenzene | ND | | 1.00 | 1 | 10/19/2025 13:42 | WG2623434 |
| 1,2-Dichloroethane | ND | | 1.00 | 1 | 10/19/2025 13:42 | WG2623434 |
| 1,2-Dichloropropane | ND | | 1.00 | 1 | 10/19/2025 13:42 | WG2623434 |
| 1,4-Dichlorobenzene | ND | | 1.00 | 1 | 10/19/2025 13:42 | WG2623434 |
| 2-Butanone (MEK) | ND | | 10.0 | 1 | 10/19/2025 13:42 | WG2623434 |
| 2-Hexanone | ND | | 5.00 | 1 | 10/19/2025 13:42 | WG2623434 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result ug/l | Qualifier | RL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.00 | 1 | 10/19/2025 13:42 | WG2623434 |
| Acetone | ND | | 25.0 | 1 | 10/19/2025 13:42 | WG2623434 |
| Acrylonitrile | ND | | 0.320 | 1 | 10/19/2025 13:42 | WG2623434 |
| Benzene | ND | | 1.00 | 1 | 10/19/2025 13:42 | WG2623434 |
| Bromochloromethane | ND | | 1.00 | 1 | 10/19/2025 13:42 | WG2623434 |
| Bromodichloromethane | ND | | 1.00 | 1 | 10/19/2025 13:42 | WG2623434 |
| Bromoform | ND | | 1.00 | 1 | 10/19/2025 13:42 | WG2623434 |
| Bromomethane | ND | | 2.50 | 1 | 10/19/2025 13:42 | WG2623434 |
| Carbon disulfide | ND | | 1.00 | 1 | 10/19/2025 13:42 | WG2623434 |
| Carbon tetrachloride | ND | | 1.00 | 1 | 10/19/2025 13:42 | WG2623434 |
| Chlorobenzene | ND | | 1.00 | 1 | 10/19/2025 13:42 | WG2623434 |
| Chloroethane | ND | | 2.50 | 1 | 10/19/2025 13:42 | WG2623434 |
| Chloroform | ND | | 1.00 | 1 | 10/19/2025 13:42 | WG2623434 |
| Chloromethane | ND | | 1.25 | 1 | 10/19/2025 13:42 | WG2623434 |
| Dibromochloromethane | ND | C3 | 1.00 | 1 | 10/19/2025 13:42 | WG2623434 |
| Dibromomethane | ND | | 1.00 | 1 | 10/19/2025 13:42 | WG2623434 |
| Ethylbenzene | ND | | 1.00 | 1 | 10/19/2025 13:42 | WG2623434 |
| Iodomethane | ND | | 10.0 | 1 | 10/19/2025 13:42 | WG2623434 |
| Methylene Chloride | ND | | 2.50 | 1 | 10/19/2025 13:42 | WG2623434 |
| Styrene | ND | | 1.00 | 1 | 10/19/2025 13:42 | WG2623434 |
| Tetrachloroethene | ND | | 1.00 | 1 | 10/19/2025 13:42 | WG2623434 |
| Toluene | ND | | 1.00 | 1 | 10/19/2025 13:42 | WG2623434 |
| Trichloroethene | ND | | 1.00 | 1 | 10/19/2025 13:42 | WG2623434 |
| Trichlorofluoromethane | ND | | 2.50 | 1 | 10/19/2025 13:42 | WG2623434 |
| Vinyl acetate | ND | | 5.00 | 1 | 10/19/2025 13:42 | WG2623434 |
| Vinyl chloride | ND | | 1.00 | 1 | 10/19/2025 13:42 | WG2623434 |
| Xylenes, Total | ND | | 3.00 | 1 | 10/19/2025 13:42 | WG2623434 |
| cis-1,2-Dichloroethene | ND | | 1.00 | 1 | 10/19/2025 13:42 | WG2623434 |
| cis-1,3-Dichloropropene | ND | | 1.00 | 1 | 10/19/2025 13:42 | WG2623434 |
| trans-1,2-Dichloroethene | ND | | 1.00 | 1 | 10/19/2025 13:42 | WG2623434 |
| trans-1,3-Dichloropropene | ND | | 1.00 | 1 | 10/19/2025 13:42 | WG2623434 |
| trans-1,4-Dichloro-2-butene | ND | C3 | 1.00 | 1 | 10/19/2025 13:42 | WG2623434 |
| *(S) 4-Bromofluorobenzene* | *99.6* | | | *67.0-138* | *10/19/2025 13:42* | WG2623434 |
| *(S) Toluene-d8* | *96.1* | | | *75.0-131* | *10/19/2025 13:42* | WG2623434 |
| *(S) 1,2-Dichloroethane-d4* | *98.0* | | | *70.0-130* | *10/19/2025 13:42* | WG2623434 |

## Additional Information - Results for field analyses are not accredited to ISO 17025

| Analyte | Result | Units |
|---|---|---|
| Depth to water (DTW) (FROM TOC) | 21.55 | ftmsl |
| pH (On Site) | 6.46 | su |
| Specific Conductance (on site) | 3413 | umhos/cm |
| Temperature (on-site) | 10.7 | Deg. C |
| Turbidity (on-site) | 3.2 | NTU |
| Dissolved Oxygen (on-site) | 0.5 | mg/l |
| eH/ORP ( On Site ) | -31 | mV |

## Gravimetric Analysis by Method 2540 D-2011

| Analyte | Result | Qualifier | RL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|
| | mg/l | | mg/l | | date / time | |
| Suspended Solids | 77.0 | | 2.50 | 1 | 10/17/2025 20:43 | WG2622032 |

## Metals (ICP) by Method 6010C

| Analyte | Result | Qualifier | RL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|
| | mg/l | | mg/l | | date / time | |
| Silver | ND | | 0.0100 | 1 | 10/16/2025 14:35 | WG2621405 |
| Arsenic | 0.0556 | | 0.0100 | 1 | 10/16/2025 14:35 | WG2621405 |
| Barium | 1.23 | | 0.0200 | 1 | 10/16/2025 14:35 | WG2621405 |
| Beryllium | ND | | 0.00400 | 1 | 10/16/2025 14:35 | WG2621405 |
| Cadmium | ND | | 0.00500 | 1 | 10/16/2025 14:35 | WG2621405 |
| Chromium | ND | | 0.0100 | 1 | 10/16/2025 14:35 | WG2621405 |
| Copper | ND | | 0.0100 | 1 | 10/16/2025 14:35 | WG2621405 |
| Nickel | 0.289 | | 0.0100 | 1 | 10/16/2025 14:35 | WG2621405 |
| Lead | ND | | 0.0100 | 1 | 10/16/2025 14:35 | WG2621405 |
| Vanadium | ND | | 0.0200 | 1 | 10/16/2025 14:35 | WG2621405 |
| Zinc | ND | | 0.0500 | 1 | 10/16/2025 14:35 | WG2621405 |

## Metals (ICPMS) by Method 6020A

| Analyte | Result | Qualifier | RL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|
| | mg/l | | mg/l | | date / time | |
| Cobalt | 0.0212 | | 0.00200 | 1 | 11/14/2025 17:16 | WG2620661 |
| Antimony | ND | | 0.00600 | 1 | 11/14/2025 17:16 | WG2620661 |
| Selenium | ND | | 0.0100 | 1 | 11/14/2025 17:16 | WG2620661 |
| Thallium | ND | | 0.00200 | 1 | 11/14/2025 17:16 | WG2620661 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result | Qualifier | RL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|
| | ug/l | | ug/l | | date / time | |
| 1,1,1,2-Tetrachloroethane | ND | | 1.00 | 1 | 10/19/2025 14:02 | WG2623434 |
| 1,2,3-Trichloropropane | ND | | 0.00580 | 1 | 10/20/2025 13:19 | WG2621481 |
| 1,1,1-Trichloroethane | ND | | 1.00 | 1 | 10/19/2025 14:02 | WG2623434 |
| 1,2-Dibromo-3-Chloropropane | ND | | 0.200 | 1 | 10/20/2025 13:19 | WG2621481 |
| 1,1,2,2-Tetrachloroethane | ND | | 0.300 | 1 | 10/19/2025 14:02 | WG2623434 |
| 1,2-Dibromoethane | ND | | 0.0500 | 1 | 10/20/2025 13:19 | WG2621481 |
| 1,1,2-Trichloroethane | ND | | 1.00 | 1 | 10/19/2025 14:02 | WG2623434 |
| 1,1-Dichloroethane | ND | | 1.00 | 1 | 10/19/2025 14:02 | WG2623434 |
| 1,1-Dichloroethene | ND | | 1.00 | 1 | 10/19/2025 14:02 | WG2623434 |
| 1,2-Dichlorobenzene | ND | | 1.00 | 1 | 10/19/2025 14:02 | WG2623434 |
| 1,2-Dichloroethane | ND | | 1.00 | 1 | 10/19/2025 14:02 | WG2623434 |
| 1,2-Dichloropropane | ND | | 1.00 | 1 | 10/19/2025 14:02 | WG2623434 |
| 1,4-Dichlorobenzene | ND | | 1.00 | 1 | 10/19/2025 14:02 | WG2623434 |
| 2-Butanone (MEK) | ND | | 10.0 | 1 | 10/19/2025 14:02 | WG2623434 |
| 2-Hexanone | ND | | 5.00 | 1 | 10/19/2025 14:02 | WG2623434 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result ug/l | Qualifier | RL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.00 | 1 | 10/19/2025 14:02 | WG2623434 |
| Acetone | ND | | 25.0 | 1 | 10/19/2025 14:02 | WG2623434 |
| Acrylonitrile | ND | | 0.320 | 1 | 10/19/2025 14:02 | WG2623434 |
| Benzene | ND | | 1.00 | 1 | 10/19/2025 14:02 | WG2623434 |
| Bromochloromethane | ND | | 1.00 | 1 | 10/19/2025 14:02 | WG2623434 |
| Bromodichloromethane | ND | | 1.00 | 1 | 10/19/2025 14:02 | WG2623434 |
| Bromoform | ND | | 1.00 | 1 | 10/19/2025 14:02 | WG2623434 |
| Bromomethane | ND | | 2.50 | 1 | 10/19/2025 14:02 | WG2623434 |
| Carbon disulfide | ND | | 1.00 | 1 | 10/19/2025 14:02 | WG2623434 |
| Carbon tetrachloride | ND | | 1.00 | 1 | 10/19/2025 14:02 | WG2623434 |
| Chlorobenzene | ND | | 1.00 | 1 | 10/19/2025 14:02 | WG2623434 |
| Chloroethane | 2.84 | | 2.50 | 1 | 10/19/2025 14:02 | WG2623434 |
| Chloroform | ND | | 1.00 | 1 | 10/19/2025 14:02 | WG2623434 |
| Chloromethane | ND | | 1.25 | 1 | 10/19/2025 14:02 | WG2623434 |
| Dibromochloromethane | ND | C3 | 1.00 | 1 | 10/19/2025 14:02 | WG2623434 |
| Dibromomethane | ND | | 1.00 | 1 | 10/19/2025 14:02 | WG2623434 |
| Ethylbenzene | ND | | 1.00 | 1 | 10/19/2025 14:02 | WG2623434 |
| Iodomethane | ND | | 10.0 | 1 | 10/19/2025 14:02 | WG2623434 |
| Methylene Chloride | ND | | 2.50 | 1 | 10/19/2025 14:02 | WG2623434 |
| Styrene | ND | | 1.00 | 1 | 10/19/2025 14:02 | WG2623434 |
| Tetrachloroethene | ND | | 1.00 | 1 | 10/19/2025 14:02 | WG2623434 |
| Toluene | ND | | 1.00 | 1 | 10/19/2025 14:02 | WG2623434 |
| Trichloroethene | ND | | 1.00 | 1 | 10/19/2025 14:02 | WG2623434 |
| Trichlorofluoromethane | ND | | 2.50 | 1 | 10/19/2025 14:02 | WG2623434 |
| Vinyl acetate | ND | | 5.00 | 1 | 10/19/2025 14:02 | WG2623434 |
| Vinyl chloride | ND | | 1.00 | 1 | 10/19/2025 14:02 | WG2623434 |
| Xylenes, Total | ND | | 3.00 | 1 | 10/19/2025 14:02 | WG2623434 |
| cis-1,2-Dichloroethene | ND | | 1.00 | 1 | 10/19/2025 14:02 | WG2623434 |
| cis-1,3-Dichloropropene | ND | | 1.00 | 1 | 10/19/2025 14:02 | WG2623434 |
| trans-1,2-Dichloroethene | ND | | 1.00 | 1 | 10/19/2025 14:02 | WG2623434 |
| trans-1,3-Dichloropropene | ND | | 1.00 | 1 | 10/19/2025 14:02 | WG2623434 |
| trans-1,4-Dichloro-2-butene | ND | C3 | 1.00 | 1 | 10/19/2025 14:02 | WG2623434 |
| *(S) 4-Bromofluorobenzene* | *102* | | | *67.0-138* | *10/19/2025 14:02* | WG2623434 |
| *(S) Toluene-d8* | *96.8* | | | *75.0-131* | *10/19/2025 14:02* | WG2623434 |
| *(S) 1,2-Dichloroethane-d4* | *97.4* | | | *70.0-130* | *10/19/2025 14:02* | WG2623434 |

## Additional Information - Results for field analyses are not accredited to ISO 17025

| Analyte | Result | Units |
|---|---|---|
| Depth to water (DTW) (FROM TOC) | 14.04 | ftmsl |
| pH (On Site) | 6.61 | su |
| Specific Conductance (on site) | 991 | umhos/cm |
| Temperature (on-site) | 15.3 | Deg. C |
| Turbidity (on-site) | 0 | NTU |
| Dissolved Oxygen (on-site) | 0.4 | mg/l |
| eH/ORP ( On Site ) | -104 | mV |

## Gravimetric Analysis by Method 2540 D-2011

| Analyte | Result | Qualifier | RL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|
| | mg/l | | mg/l | | date / time | |
| Suspended Solids | 12.2 | | 2.50 | 1 | 10/17/2025 20:43 | WG2622032 |

## Metals (ICP) by Method 6010C

| Analyte | Result | Qualifier | RL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|
| | mg/l | | mg/l | | date / time | |
| Silver | ND | | 0.0100 | 1 | 10/16/2025 14:38 | WG2621405 |
| Arsenic | 0.0122 | | 0.0100 | 1 | 10/16/2025 14:38 | WG2621405 |
| Barium | 1.07 | | 0.0200 | 1 | 10/16/2025 14:38 | WG2621405 |
| Beryllium | ND | | 0.00400 | 1 | 10/16/2025 14:38 | WG2621405 |
| Cadmium | ND | | 0.00500 | 1 | 10/16/2025 14:38 | WG2621405 |
| Chromium | ND | | 0.0100 | 1 | 10/16/2025 14:38 | WG2621405 |
| Copper | ND | | 0.0100 | 1 | 10/16/2025 14:38 | WG2621405 |
| Nickel | ND | | 0.0100 | 1 | 10/16/2025 14:38 | WG2621405 |
| Lead | ND | | 0.0100 | 1 | 10/16/2025 14:38 | WG2621405 |
| Vanadium | ND | | 0.0200 | 1 | 10/16/2025 14:38 | WG2621405 |
| Zinc | ND | | 0.0500 | 1 | 10/16/2025 14:38 | WG2621405 |

## Metals (ICPMS) by Method 6020A

| Analyte | Result | Qualifier | RL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|
| | mg/l | | mg/l | | date / time | |
| Cobalt | 0.00318 | | 0.00200 | 1 | 11/14/2025 17:19 | WG2620661 |
| Antimony | ND | | 0.00600 | 1 | 11/14/2025 17:19 | WG2620661 |
| Selenium | ND | | 0.0100 | 1 | 11/14/2025 17:19 | WG2620661 |
| Thallium | ND | | 0.00200 | 1 | 11/14/2025 17:19 | WG2620661 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result | Qualifier | RL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|
| | ug/l | | ug/l | | date / time | |
| 1,1,1,2-Tetrachloroethane | ND | | 1.00 | 1 | 10/19/2025 14:21 | WG2623434 |
| 1,2,3-Trichloropropane | ND | | 0.00580 | 1 | 10/20/2025 13:40 | WG2621481 |
| 1,1,1-Trichloroethane | ND | | 1.00 | 1 | 10/19/2025 14:21 | WG2623434 |
| 1,2-Dibromo-3-Chloropropane | ND | | 0.200 | 1 | 10/20/2025 13:40 | WG2621481 |
| 1,1,2,2-Tetrachloroethane | ND | | 0.300 | 1 | 10/19/2025 14:21 | WG2623434 |
| 1,2-Dibromoethane | ND | | 0.0500 | 1 | 10/20/2025 13:40 | WG2621481 |
| 1,1,2-Trichloroethane | ND | | 1.00 | 1 | 10/19/2025 14:21 | WG2623434 |
| 1,1-Dichloroethane | ND | | 1.00 | 1 | 10/19/2025 14:21 | WG2623434 |
| 1,1-Dichloroethene | ND | | 1.00 | 1 | 10/19/2025 14:21 | WG2623434 |
| 1,2-Dichlorobenzene | ND | | 1.00 | 1 | 10/19/2025 14:21 | WG2623434 |
| 1,2-Dichloroethane | ND | | 1.00 | 1 | 10/19/2025 14:21 | WG2623434 |
| 1,2-Dichloropropane | ND | | 1.00 | 1 | 10/19/2025 14:21 | WG2623434 |
| 1,4-Dichlorobenzene | ND | | 1.00 | 1 | 10/19/2025 14:21 | WG2623434 |
| 2-Butanone (MEK) | ND | | 10.0 | 1 | 10/19/2025 14:21 | WG2623434 |
| 2-Hexanone | ND | | 5.00 | 1 | 10/19/2025 14:21 | WG2623434 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result ug/l | Qualifier | RL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.00 | 1 | 10/19/2025 14:21 | WG2623434 |
| Acetone | 40.8 | | 25.0 | 1 | 10/19/2025 14:21 | WG2623434 |
| Acrylonitrile | ND | | 0.320 | 1 | 10/19/2025 14:21 | WG2623434 |
| Benzene | ND | | 1.00 | 1 | 10/19/2025 14:21 | WG2623434 |
| Bromochloromethane | ND | | 1.00 | 1 | 10/19/2025 14:21 | WG2623434 |
| Bromodichloromethane | ND | | 1.00 | 1 | 10/19/2025 14:21 | WG2623434 |
| Bromoform | ND | | 1.00 | 1 | 10/19/2025 14:21 | WG2623434 |
| Bromomethane | ND | | 2.50 | 1 | 10/19/2025 14:21 | WG2623434 |
| Carbon disulfide | ND | | 1.00 | 1 | 10/19/2025 14:21 | WG2623434 |
| Carbon tetrachloride | ND | | 1.00 | 1 | 10/19/2025 14:21 | WG2623434 |
| Chlorobenzene | ND | | 1.00 | 1 | 10/19/2025 14:21 | WG2623434 |
| Chloroethane | ND | | 2.50 | 1 | 10/19/2025 14:21 | WG2623434 |
| Chloroform | ND | | 1.00 | 1 | 10/19/2025 14:21 | WG2623434 |
| Chloromethane | ND | | 1.25 | 1 | 10/19/2025 14:21 | WG2623434 |
| Dibromochloromethane | ND | C3 | 1.00 | 1 | 10/19/2025 14:21 | WG2623434 |
| Dibromomethane | ND | | 1.00 | 1 | 10/19/2025 14:21 | WG2623434 |
| Ethylbenzene | ND | | 1.00 | 1 | 10/19/2025 14:21 | WG2623434 |
| Iodomethane | ND | | 10.0 | 1 | 10/19/2025 14:21 | WG2623434 |
| Methylene Chloride | ND | | 2.50 | 1 | 10/19/2025 14:21 | WG2623434 |
| Styrene | ND | | 1.00 | 1 | 10/19/2025 14:21 | WG2623434 |
| Tetrachloroethene | ND | | 1.00 | 1 | 10/19/2025 14:21 | WG2623434 |
| Toluene | ND | | 1.00 | 1 | 10/19/2025 14:21 | WG2623434 |
| Trichloroethene | 2.69 | | 1.00 | 1 | 10/19/2025 14:21 | WG2623434 |
| Trichlorofluoromethane | ND | | 2.50 | 1 | 10/19/2025 14:21 | WG2623434 |
| Vinyl acetate | ND | | 5.00 | 1 | 10/19/2025 14:21 | WG2623434 |
| Vinyl chloride | ND | | 1.00 | 1 | 10/19/2025 14:21 | WG2623434 |
| Xylenes, Total | ND | | 3.00 | 1 | 10/19/2025 14:21 | WG2623434 |
| cis-1,2-Dichloroethene | ND | | 1.00 | 1 | 10/19/2025 14:21 | WG2623434 |
| cis-1,3-Dichloropropene | ND | | 1.00 | 1 | 10/19/2025 14:21 | WG2623434 |
| trans-1,2-Dichloroethene | ND | | 1.00 | 1 | 10/19/2025 14:21 | WG2623434 |
| trans-1,3-Dichloropropene | ND | | 1.00 | 1 | 10/19/2025 14:21 | WG2623434 |
| trans-1,4-Dichloro-2-butene | ND | C3 | 1.00 | 1 | 10/19/2025 14:21 | WG2623434 |
| *(S) 4-Bromofluorobenzene* | *99.0* | | | *67.0-138* | *10/19/2025 14:21* | WG2623434 |
| *(S) Toluene-d8* | *95.3* | | | *75.0-131* | *10/19/2025 14:21* | WG2623434 |
| *(S) 1,2-Dichloroethane-d4* | *97.9* | | | *70.0-130* | *10/19/2025 14:21* | WG2623434 |

## Additional Information - Results for field analyses are not accredited to ISO 17025

| Analyte | Result | Units |
|---|---|---|
| Depth to water (DTW) (FROM TOC) | 25.28 | ftmsl |
| pH (On Site) | 6.96 | su |
| Specific Conductance (on site) | 923 | umhos/cm |
| Temperature (on-site) | 12.4 | Deg. C |
| Turbidity (on-site) | 0 | NTU |
| Dissolved Oxygen (on-site) | 1.4 | mg/l |
| eH/ORP ( On Site ) | 53.6 | mV |

## Gravimetric Analysis by Method 2540 D-2011

| Analyte | Result | Qualifier | RL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|
| | mg/l | | mg/l | | date / time | |
| Suspended Solids | ND | | 2.50 | 1 | 10/17/2025 20:43 | WG2622032 |

## Metals (ICP) by Method 6010C

| Analyte | Result | Qualifier | RL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|
| | mg/l | | mg/l | | date / time | |
| Silver | ND | | 0.0100 | 1 | 10/16/2025 14:40 | WG2621405 |
| Arsenic | ND | | 0.0100 | 1 | 10/16/2025 14:40 | WG2621405 |
| Barium | 0.291 | | 0.0200 | 1 | 10/16/2025 14:40 | WG2621405 |
| Beryllium | ND | | 0.00400 | 1 | 10/16/2025 14:40 | WG2621405 |
| Cadmium | ND | | 0.00500 | 1 | 10/16/2025 14:40 | WG2621405 |
| Chromium | ND | | 0.0100 | 1 | 10/16/2025 14:40 | WG2621405 |
| Copper | ND | | 0.0100 | 1 | 10/16/2025 14:40 | WG2621405 |
| Nickel | ND | | 0.0100 | 1 | 10/16/2025 14:40 | WG2621405 |
| Lead | ND | | 0.0100 | 1 | 10/16/2025 14:40 | WG2621405 |
| Vanadium | ND | | 0.0200 | 1 | 10/16/2025 14:40 | WG2621405 |
| Zinc | ND | | 0.0500 | 1 | 10/16/2025 14:40 | WG2621405 |

## Metals (ICPMS) by Method 6020A

| Analyte | Result | Qualifier | RL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|
| | mg/l | | mg/l | | date / time | |
| Cobalt | ND | | 0.00200 | 1 | 11/14/2025 17:22 | WG2620661 |
| Antimony | ND | | 0.00600 | 1 | 11/14/2025 17:22 | WG2620661 |
| Selenium | ND | | 0.0100 | 1 | 11/14/2025 17:22 | WG2620661 |
| Thallium | ND | | 0.00200 | 1 | 11/14/2025 17:22 | WG2620661 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result | Qualifier | RL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|
| | ug/l | | ug/l | | date / time | |
| 1,1,1,2-Tetrachloroethane | ND | | 1.00 | 1 | 10/19/2025 14:40 | WG2623434 |
| 1,2,3-Trichloropropane | ND | | 0.00580 | 1 | 10/20/2025 14:02 | WG2621481 |
| 1,1,1-Trichloroethane | ND | | 1.00 | 1 | 10/19/2025 14:40 | WG2623434 |
| 1,2-Dibromo-3-Chloropropane | ND | | 0.200 | 1 | 10/20/2025 14:02 | WG2621481 |
| 1,1,2,2-Tetrachloroethane | ND | | 0.300 | 1 | 10/19/2025 14:40 | WG2623434 |
| 1,2-Dibromoethane | ND | | 0.0500 | 1 | 10/20/2025 14:02 | WG2621481 |
| 1,1,2-Trichloroethane | ND | | 1.00 | 1 | 10/19/2025 14:40 | WG2623434 |
| 1,1-Dichloroethane | ND | | 1.00 | 1 | 10/19/2025 14:40 | WG2623434 |
| 1,1-Dichloroethene | ND | | 1.00 | 1 | 10/19/2025 14:40 | WG2623434 |
| 1,2-Dichlorobenzene | ND | | 1.00 | 1 | 10/19/2025 14:40 | WG2623434 |
| 1,2-Dichloroethane | ND | | 1.00 | 1 | 10/19/2025 14:40 | WG2623434 |
| 1,2-Dichloropropane | ND | | 1.00 | 1 | 10/19/2025 14:40 | WG2623434 |
| 1,4-Dichlorobenzene | ND | | 1.00 | 1 | 10/19/2025 14:40 | WG2623434 |
| 2-Butanone (MEK) | ND | | 10.0 | 1 | 10/19/2025 14:40 | WG2623434 |
| 2-Hexanone | ND | | 5.00 | 1 | 10/19/2025 14:40 | WG2623434 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result ug/l | Qualifier | RL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.00 | 1 | 10/19/2025 14:40 | WG2623434 |
| Acetone | ND | | 25.0 | 1 | 10/19/2025 14:40 | WG2623434 |
| Acrylonitrile | ND | | 0.320 | 1 | 10/19/2025 14:40 | WG2623434 |
| Benzene | ND | | 1.00 | 1 | 10/19/2025 14:40 | WG2623434 |
| Bromochloromethane | ND | | 1.00 | 1 | 10/19/2025 14:40 | WG2623434 |
| Bromodichloromethane | ND | | 1.00 | 1 | 10/19/2025 14:40 | WG2623434 |
| Bromoform | ND | | 1.00 | 1 | 10/19/2025 14:40 | WG2623434 |
| Bromomethane | ND | | 2.50 | 1 | 10/19/2025 14:40 | WG2623434 |
| Carbon disulfide | ND | | 1.00 | 1 | 10/19/2025 14:40 | WG2623434 |
| Carbon tetrachloride | ND | | 1.00 | 1 | 10/19/2025 14:40 | WG2623434 |
| Chlorobenzene | ND | | 1.00 | 1 | 10/19/2025 14:40 | WG2623434 |
| Chloroethane | ND | | 2.50 | 1 | 10/19/2025 14:40 | WG2623434 |
| Chloroform | ND | | 1.00 | 1 | 10/19/2025 14:40 | WG2623434 |
| Chloromethane | ND | | 1.25 | 1 | 10/19/2025 14:40 | WG2623434 |
| Dibromochloromethane | ND | C3 | 1.00 | 1 | 10/19/2025 14:40 | WG2623434 |
| Dibromomethane | ND | | 1.00 | 1 | 10/19/2025 14:40 | WG2623434 |
| Ethylbenzene | ND | | 1.00 | 1 | 10/19/2025 14:40 | WG2623434 |
| Iodomethane | ND | | 10.0 | 1 | 10/19/2025 14:40 | WG2623434 |
| Methylene Chloride | ND | | 2.50 | 1 | 10/19/2025 14:40 | WG2623434 |
| Styrene | ND | | 1.00 | 1 | 10/19/2025 14:40 | WG2623434 |
| Tetrachloroethene | ND | | 1.00 | 1 | 10/19/2025 14:40 | WG2623434 |
| Toluene | ND | | 1.00 | 1 | 10/19/2025 14:40 | WG2623434 |
| Trichloroethene | ND | | 1.00 | 1 | 10/19/2025 14:40 | WG2623434 |
| Trichlorofluoromethane | ND | | 2.50 | 1 | 10/19/2025 14:40 | WG2623434 |
| Vinyl acetate | ND | | 5.00 | 1 | 10/19/2025 14:40 | WG2623434 |
| Vinyl chloride | ND | | 1.00 | 1 | 10/19/2025 14:40 | WG2623434 |
| Xylenes, Total | ND | | 3.00 | 1 | 10/19/2025 14:40 | WG2623434 |
| cis-1,2-Dichloroethene | ND | | 1.00 | 1 | 10/19/2025 14:40 | WG2623434 |
| cis-1,3-Dichloropropene | ND | | 1.00 | 1 | 10/19/2025 14:40 | WG2623434 |
| trans-1,2-Dichloroethene | ND | | 1.00 | 1 | 10/19/2025 14:40 | WG2623434 |
| trans-1,3-Dichloropropene | ND | | 1.00 | 1 | 10/19/2025 14:40 | WG2623434 |
| trans-1,4-Dichloro-2-butene | ND | C3 | 1.00 | 1 | 10/19/2025 14:40 | WG2623434 |
| *(S) 4-Bromofluorobenzene* | *99.3* | | | *67.0-138* | *10/19/2025 14:40* | WG2623434 |
| *(S) Toluene-d8* | *95.9* | | | *75.0-131* | *10/19/2025 14:40* | WG2623434 |
| *(S) 1,2-Dichloroethane-d4* | *97.6* | | | *70.0-130* | *10/19/2025 14:40* | WG2623434 |

## Additional Information - Results for field analyses are not accredited to ISO 17025

| Analyte | Result | Units |
|---|---|---|
| Depth to water (DTW) (FROM TOC) | 5.76 | ftmsl |
| pH (On Site) | 6.83 | su |
| Specific Conductance (on site) | 1183 | umhos/cm |
| Temperature (on-site) | 13.2 | Deg. C |
| Turbidity (on-site) | 46.3 | NTU |
| Dissolved Oxygen (on-site) | 1.1 | mg/l |
| eH/ORP ( On Site ) | 105.7 | mV |

## Gravimetric Analysis by Method 2540 D-2011

| Analyte | Result | Qualifier | RL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|
| | mg/l | | mg/l | | date / time | |
| Suspended Solids | 5.10 | | 2.50 | 1 | 10/17/2025 20:43 | WG2622032 |

## Metals (ICP) by Method 6010C

| Analyte | Result | Qualifier | RL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|
| | mg/l | | mg/l | | date / time | |
| Silver | ND | | 0.0100 | 1 | 10/16/2025 14:42 | WG2621405 |
| Arsenic | ND | | 0.0100 | 1 | 10/16/2025 14:42 | WG2621405 |
| Barium | 0.186 | | 0.0200 | 1 | 10/16/2025 14:42 | WG2621405 |
| Beryllium | ND | | 0.00400 | 1 | 10/16/2025 14:42 | WG2621405 |
| Cadmium | ND | | 0.00500 | 1 | 10/16/2025 14:42 | WG2621405 |
| Chromium | ND | | 0.0100 | 1 | 10/16/2025 14:42 | WG2621405 |
| Copper | ND | | 0.0100 | 1 | 10/16/2025 14:42 | WG2621405 |
| Nickel | 0.0335 | | 0.0100 | 1 | 10/16/2025 14:42 | WG2621405 |
| Lead | ND | | 0.0100 | 1 | 10/16/2025 14:42 | WG2621405 |
| Vanadium | ND | | 0.0200 | 1 | 10/16/2025 14:42 | WG2621405 |
| Zinc | ND | | 0.0500 | 1 | 10/16/2025 14:42 | WG2621405 |

## Metals (ICPMS) by Method 6020A

| Analyte | Result | Qualifier | RL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|
| | mg/l | | mg/l | | date / time | |
| Cobalt | ND | | 0.00200 | 1 | 11/19/2025 13:09 | WG2621503 |
| Antimony | ND | | 0.00600 | 1 | 11/19/2025 13:09 | WG2621503 |
| Selenium | ND | | 0.0100 | 1 | 11/19/2025 13:09 | WG2621503 |
| Thallium | ND | | 0.00200 | 1 | 11/19/2025 13:09 | WG2621503 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result | Qualifier | RL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|
| | ug/l | | ug/l | | date / time | |
| 1,1,1,2-Tetrachloroethane | ND | | 1.00 | 1 | 10/19/2025 14:59 | WG2623434 |
| 1,2,3-Trichloropropane | ND | | 0.00580 | 1 | 10/20/2025 14:22 | WG2621481 |
| 1,1,1-Trichloroethane | ND | | 1.00 | 1 | 10/19/2025 14:59 | WG2623434 |
| 1,2-Dibromo-3-Chloropropane | ND | | 0.200 | 1 | 10/20/2025 14:22 | WG2621481 |
| 1,1,2,2-Tetrachloroethane | ND | | 0.300 | 1 | 10/19/2025 14:59 | WG2623434 |
| 1,2-Dibromoethane | ND | | 0.0500 | 1 | 10/20/2025 14:22 | WG2621481 |
| 1,1,2-Trichloroethane | ND | | 1.00 | 1 | 10/19/2025 14:59 | WG2623434 |
| 1,1-Dichloroethane | ND | | 1.00 | 1 | 10/19/2025 14:59 | WG2623434 |
| 1,1-Dichloroethene | ND | | 1.00 | 1 | 10/19/2025 14:59 | WG2623434 |
| 1,2-Dichlorobenzene | ND | | 1.00 | 1 | 10/19/2025 14:59 | WG2623434 |
| 1,2-Dichloroethane | ND | | 1.00 | 1 | 10/19/2025 14:59 | WG2623434 |
| 1,2-Dichloropropane | ND | | 1.00 | 1 | 10/19/2025 14:59 | WG2623434 |
| 1,4-Dichlorobenzene | ND | | 1.00 | 1 | 10/19/2025 14:59 | WG2623434 |
| 2-Butanone (MEK) | ND | | 10.0 | 1 | 10/19/2025 14:59 | WG2623434 |
| 2-Hexanone | ND | | 5.00 | 1 | 10/19/2025 14:59 | WG2623434 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result ug/l | Qualifier | RL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.00 | 1 | 10/19/2025 14:59 | WG2623434 |
| Acetone | ND | | 25.0 | 1 | 10/19/2025 14:59 | WG2623434 |
| Acrylonitrile | ND | | 0.320 | 1 | 10/19/2025 14:59 | WG2623434 |
| Benzene | ND | | 1.00 | 1 | 10/19/2025 14:59 | WG2623434 |
| Bromochloromethane | ND | | 1.00 | 1 | 10/19/2025 14:59 | WG2623434 |
| Bromodichloromethane | ND | | 1.00 | 1 | 10/19/2025 14:59 | WG2623434 |
| Bromoform | ND | | 1.00 | 1 | 10/19/2025 14:59 | WG2623434 |
| Bromomethane | ND | | 2.50 | 1 | 10/19/2025 14:59 | WG2623434 |
| Carbon disulfide | ND | | 1.00 | 1 | 10/19/2025 14:59 | WG2623434 |
| Carbon tetrachloride | ND | | 1.00 | 1 | 10/19/2025 14:59 | WG2623434 |
| Chlorobenzene | ND | | 1.00 | 1 | 10/19/2025 14:59 | WG2623434 |
| Chloroethane | ND | | 2.50 | 1 | 10/19/2025 14:59 | WG2623434 |
| Chloroform | ND | | 1.00 | 1 | 10/19/2025 14:59 | WG2623434 |
| Chloromethane | ND | | 1.25 | 1 | 10/19/2025 14:59 | WG2623434 |
| Dibromochloromethane | ND | C3 | 1.00 | 1 | 10/19/2025 14:59 | WG2623434 |
| Dibromomethane | ND | | 1.00 | 1 | 10/19/2025 14:59 | WG2623434 |
| Ethylbenzene | ND | | 1.00 | 1 | 10/19/2025 14:59 | WG2623434 |
| Iodomethane | ND | | 10.0 | 1 | 10/19/2025 14:59 | WG2623434 |
| Methylene Chloride | ND | | 2.50 | 1 | 10/19/2025 14:59 | WG2623434 |
| Styrene | ND | | 1.00 | 1 | 10/19/2025 14:59 | WG2623434 |
| Tetrachloroethene | ND | | 1.00 | 1 | 10/19/2025 14:59 | WG2623434 |
| Toluene | ND | | 1.00 | 1 | 10/19/2025 14:59 | WG2623434 |
| Trichloroethene | ND | | 1.00 | 1 | 10/19/2025 14:59 | WG2623434 |
| Trichlorofluoromethane | ND | | 2.50 | 1 | 10/19/2025 14:59 | WG2623434 |
| Vinyl acetate | ND | | 5.00 | 1 | 10/19/2025 14:59 | WG2623434 |
| Vinyl chloride | ND | | 1.00 | 1 | 10/19/2025 14:59 | WG2623434 |
| Xylenes, Total | ND | | 3.00 | 1 | 10/19/2025 14:59 | WG2623434 |
| cis-1,2-Dichloroethene | ND | | 1.00 | 1 | 10/19/2025 14:59 | WG2623434 |
| cis-1,3-Dichloropropene | ND | | 1.00 | 1 | 10/19/2025 14:59 | WG2623434 |
| trans-1,2-Dichloroethene | ND | | 1.00 | 1 | 10/19/2025 14:59 | WG2623434 |
| trans-1,3-Dichloropropene | ND | | 1.00 | 1 | 10/19/2025 14:59 | WG2623434 |
| trans-1,4-Dichloro-2-butene | ND | C3 | 1.00 | 1 | 10/19/2025 14:59 | WG2623434 |
| *(S) 4-Bromofluorobenzene* | *99.4* | | | *67.0-138* | *10/19/2025 14:59* | WG2623434 |
| *(S) Toluene-d8* | *96.7* | | | *75.0-131* | *10/19/2025 14:59* | WG2623434 |
| *(S) 1,2-Dichloroethane-d4* | *97.4* | | | *70.0-130* | *10/19/2025 14:59* | WG2623434 |

## Additional Information - Results for field analyses are not accredited to ISO 17025

| Analyte | Result | Units |
|---|---|---|
| Depth to water (DTW) (FROM TOC) | 20.87 | ftmsl |
| pH (On Site) | 6.6 | su |
| Specific Conductance (on site) | 947 | umhos/cm |
| Temperature (on-site) | 11.2 | Deg. C |
| Turbidity (on-site) | 0 | NTU |
| Dissolved Oxygen (on-site) | 0.5 | mg/l |
| eH/ORP ( On Site ) | 14.4 | mV |

## Gravimetric Analysis by Method 2540 D-2011

| Analyte | Result | Qualifier | RL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|
| | mg/l | | mg/l | | date / time | |
| Suspended Solids | 5.80 | | 2.50 | 1 | 10/17/2025 20:43 | WG2622032 |

## Metals (ICP) by Method 6010C

| Analyte | Result | Qualifier | RL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|
| | mg/l | | mg/l | | date / time | |
| Silver | ND | | 0.0100 | 1 | 10/16/2025 14:45 | WG2621405 |
| Arsenic | ND | | 0.0100 | 1 | 10/16/2025 14:45 | WG2621405 |
| Barium | 0.413 | | 0.0200 | 1 | 10/16/2025 14:45 | WG2621405 |
| Beryllium | ND | | 0.00400 | 1 | 10/16/2025 14:45 | WG2621405 |
| Cadmium | ND | | 0.00500 | 1 | 10/16/2025 14:45 | WG2621405 |
| Chromium | ND | | 0.0100 | 1 | 10/16/2025 14:45 | WG2621405 |
| Copper | ND | | 0.0100 | 1 | 10/16/2025 14:45 | WG2621405 |
| Nickel | ND | | 0.0100 | 1 | 10/16/2025 14:45 | WG2621405 |
| Lead | ND | | 0.0100 | 1 | 10/16/2025 14:45 | WG2621405 |
| Vanadium | ND | | 0.0200 | 1 | 10/16/2025 14:45 | WG2621405 |
| Zinc | ND | | 0.0500 | 1 | 10/16/2025 14:45 | WG2621405 |

## Metals (ICPMS) by Method 6020A

| Analyte | Result | Qualifier | RL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|
| | mg/l | | mg/l | | date / time | |
| Cobalt | ND | | 0.00200 | 1 | 11/19/2025 13:12 | WG2621503 |
| Antimony | ND | | 0.00600 | 1 | 11/19/2025 13:12 | WG2621503 |
| Selenium | ND | | 0.0100 | 1 | 11/19/2025 13:12 | WG2621503 |
| Thallium | ND | | 0.00200 | 1 | 11/19/2025 13:12 | WG2621503 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result | Qualifier | RL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|
| | ug/l | | ug/l | | date / time | |
| 1,1,1,2-Tetrachloroethane | ND | | 1.00 | 1 | 10/19/2025 15:18 | WG2623434 |
| 1,2,3-Trichloropropane | ND | | 0.00580 | 1 | 10/20/2025 14:43 | WG2621481 |
| 1,1,1-Trichloroethane | ND | | 1.00 | 1 | 10/19/2025 15:18 | WG2623434 |
| 1,2-Dibromo-3-Chloropropane | ND | | 0.200 | 1 | 10/20/2025 14:43 | WG2621481 |
| 1,1,2,2-Tetrachloroethane | ND | | 0.300 | 1 | 10/19/2025 15:18 | WG2623434 |
| 1,2-Dibromoethane | ND | | 0.0500 | 1 | 10/20/2025 14:43 | WG2621481 |
| 1,1,2-Trichloroethane | ND | | 1.00 | 1 | 10/19/2025 15:18 | WG2623434 |
| 1,1-Dichloroethane | ND | | 1.00 | 1 | 10/19/2025 15:18 | WG2623434 |
| 1,1-Dichloroethene | ND | | 1.00 | 1 | 10/19/2025 15:18 | WG2623434 |
| 1,2-Dichlorobenzene | ND | | 1.00 | 1 | 10/19/2025 15:18 | WG2623434 |
| 1,2-Dichloroethane | ND | | 1.00 | 1 | 10/19/2025 15:18 | WG2623434 |
| 1,2-Dichloropropane | ND | | 1.00 | 1 | 10/19/2025 15:18 | WG2623434 |
| 1,4-Dichlorobenzene | ND | | 1.00 | 1 | 10/19/2025 15:18 | WG2623434 |
| 2-Butanone (MEK) | ND | | 10.0 | 1 | 10/19/2025 15:18 | WG2623434 |
| 2-Hexanone | ND | | 5.00 | 1 | 10/19/2025 15:18 | WG2623434 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result ug/l | Qualifier | RL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.00 | 1 | 10/19/2025 15:18 | WG2623434 |
| Acetone | ND | | 25.0 | 1 | 10/19/2025 15:18 | WG2623434 |
| Acrylonitrile | ND | | 0.320 | 1 | 10/19/2025 15:18 | WG2623434 |
| Benzene | ND | | 1.00 | 1 | 10/19/2025 15:18 | WG2623434 |
| Bromochloromethane | ND | | 1.00 | 1 | 10/19/2025 15:18 | WG2623434 |
| Bromodichloromethane | ND | | 1.00 | 1 | 10/19/2025 15:18 | WG2623434 |
| Bromoform | ND | | 1.00 | 1 | 10/19/2025 15:18 | WG2623434 |
| Bromomethane | ND | | 2.50 | 1 | 10/19/2025 15:18 | WG2623434 |
| Carbon disulfide | ND | | 1.00 | 1 | 10/19/2025 15:18 | WG2623434 |
| Carbon tetrachloride | ND | | 1.00 | 1 | 10/19/2025 15:18 | WG2623434 |
| Chlorobenzene | ND | | 1.00 | 1 | 10/19/2025 15:18 | WG2623434 |
| Chloroethane | ND | | 2.50 | 1 | 10/19/2025 15:18 | WG2623434 |
| Chloroform | ND | | 1.00 | 1 | 10/19/2025 15:18 | WG2623434 |
| Chloromethane | ND | | 1.25 | 1 | 10/19/2025 15:18 | WG2623434 |
| Dibromochloromethane | ND | C3 | 1.00 | 1 | 10/19/2025 15:18 | WG2623434 |
| Dibromomethane | ND | | 1.00 | 1 | 10/19/2025 15:18 | WG2623434 |
| Ethylbenzene | ND | | 1.00 | 1 | 10/19/2025 15:18 | WG2623434 |
| Iodomethane | ND | | 10.0 | 1 | 10/19/2025 15:18 | WG2623434 |
| Methylene Chloride | ND | | 2.50 | 1 | 10/19/2025 15:18 | WG2623434 |
| Styrene | ND | | 1.00 | 1 | 10/19/2025 15:18 | WG2623434 |
| Tetrachloroethene | ND | | 1.00 | 1 | 10/19/2025 15:18 | WG2623434 |
| Toluene | ND | | 1.00 | 1 | 10/19/2025 15:18 | WG2623434 |
| Trichloroethene | ND | | 1.00 | 1 | 10/19/2025 15:18 | WG2623434 |
| Trichlorofluoromethane | ND | | 2.50 | 1 | 10/19/2025 15:18 | WG2623434 |
| Vinyl acetate | ND | | 5.00 | 1 | 10/19/2025 15:18 | WG2623434 |
| Vinyl chloride | ND | | 1.00 | 1 | 10/19/2025 15:18 | WG2623434 |
| Xylenes, Total | ND | | 3.00 | 1 | 10/19/2025 15:18 | WG2623434 |
| cis-1,2-Dichloroethene | ND | | 1.00 | 1 | 10/19/2025 15:18 | WG2623434 |
| cis-1,3-Dichloropropene | ND | | 1.00 | 1 | 10/19/2025 15:18 | WG2623434 |
| trans-1,2-Dichloroethene | ND | | 1.00 | 1 | 10/19/2025 15:18 | WG2623434 |
| trans-1,3-Dichloropropene | ND | | 1.00 | 1 | 10/19/2025 15:18 | WG2623434 |
| trans-1,4-Dichloro-2-butene | ND | C3 | 1.00 | 1 | 10/19/2025 15:18 | WG2623434 |
| *(S) 4-Bromofluorobenzene* | *101* | | | *67.0-138* | *10/19/2025 15:18* | WG2623434 |
| *(S) Toluene-d8* | *96.0* | | | *75.0-131* | *10/19/2025 15:18* | WG2623434 |
| *(S) 1,2-Dichloroethane-d4* | *99.6* | | | *70.0-130* | *10/19/2025 15:18* | WG2623434 |

## Additional Information - Results for field analyses are not accredited to ISO 17025

| Analyte | Result | Units |
|---|---|---|
| Depth to water (DTW) (FROM TOC) | 18.44 | ftmsl |
| pH (On Site) | 6.43 | su |
| Specific Conductance (on site) | 1678 | umhos/cm |
| Temperature (on-site) | 10.9 | Deg. C |
| Turbidity (on-site) | 0 | NTU |
| Dissolved Oxygen (on-site) | 0.7 | mg/l |
| eH/ORP ( On Site ) | -45 | mV |

## Gravimetric Analysis by Method 2540 D-2011

| Analyte | Result | Qualifier | RL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|
| | mg/l | | mg/l | | date / time | |
| Suspended Solids | 7.80 | | 2.50 | 1 | 10/16/2025 20:26 | WG2622011 |

## Metals (ICP) by Method 6010C

| Analyte | Result | Qualifier | RL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|
| | mg/l | | mg/l | | date / time | |
| Silver | ND | | 0.0100 | 1 | 10/16/2025 14:47 | WG2621405 |
| Arsenic | ND | | 0.0100 | 1 | 10/16/2025 14:47 | WG2621405 |
| Barium | 0.283 | | 0.0200 | 1 | 10/16/2025 14:47 | WG2621405 |
| Beryllium | ND | | 0.00400 | 1 | 10/16/2025 14:47 | WG2621405 |
| Cadmium | ND | | 0.00500 | 1 | 10/16/2025 14:47 | WG2621405 |
| Chromium | ND | | 0.0100 | 1 | 10/16/2025 14:47 | WG2621405 |
| Copper | ND | | 0.0100 | 1 | 10/16/2025 14:47 | WG2621405 |
| Nickel | 0.0154 | | 0.0100 | 1 | 10/16/2025 14:47 | WG2621405 |
| Lead | ND | | 0.0100 | 1 | 10/16/2025 14:47 | WG2621405 |
| Vanadium | ND | | 0.0200 | 1 | 10/16/2025 14:47 | WG2621405 |
| Zinc | ND | | 0.0500 | 1 | 10/16/2025 14:47 | WG2621405 |

## Metals (ICPMS) by Method 6020A

| Analyte | Result | Qualifier | RL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|
| | mg/l | | mg/l | | date / time | |
| Cobalt | 0.00255 | | 0.00200 | 1 | 11/19/2025 13:15 | WG2621503 |
| Antimony | ND | | 0.00600 | 1 | 11/19/2025 13:15 | WG2621503 |
| Selenium | ND | | 0.0100 | 1 | 11/19/2025 13:15 | WG2621503 |
| Thallium | ND | | 0.00200 | 1 | 11/19/2025 13:15 | WG2621503 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result | Qualifier | RL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|
| | ug/l | | ug/l | | date / time | |
| 1,1,1,2-Tetrachloroethane | ND | | 1.00 | 1 | 10/19/2025 15:37 | WG2623434 |
| 1,2,3-Trichloropropane | ND | | 0.00580 | 1 | 10/20/2025 15:05 | WG2621481 |
| 1,1,1-Trichloroethane | ND | | 1.00 | 1 | 10/19/2025 15:37 | WG2623434 |
| 1,2-Dibromo-3-Chloropropane | ND | | 0.200 | 1 | 10/20/2025 15:05 | WG2621481 |
| 1,1,2,2-Tetrachloroethane | ND | | 0.300 | 1 | 10/19/2025 15:37 | WG2623434 |
| 1,2-Dibromoethane | ND | | 0.0500 | 1 | 10/20/2025 15:05 | WG2621481 |
| 1,1,2-Trichloroethane | ND | | 1.00 | 1 | 10/19/2025 15:37 | WG2623434 |
| 1,1-Dichloroethane | 21.4 | | 1.00 | 1 | 10/19/2025 15:37 | WG2623434 |
| 1,1-Dichloroethene | ND | | 1.00 | 1 | 10/19/2025 15:37 | WG2623434 |
| 1,2-Dichlorobenzene | ND | | 1.00 | 1 | 10/19/2025 15:37 | WG2623434 |
| 1,2-Dichloroethane | ND | | 1.00 | 1 | 10/19/2025 15:37 | WG2623434 |
| 1,2-Dichloropropane | 1.41 | | 1.00 | 1 | 10/19/2025 15:37 | WG2623434 |
| 1,4-Dichlorobenzene | ND | | 1.00 | 1 | 10/19/2025 15:37 | WG2623434 |
| 2-Butanone (MEK) | ND | | 10.0 | 1 | 10/19/2025 15:37 | WG2623434 |
| 2-Hexanone | ND | | 5.00 | 1 | 10/19/2025 15:37 | WG2623434 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result ug/l | Qualifier | RL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.00 | 1 | 10/19/2025 15:37 | WG2623434 |
| Acetone | ND | | 25.0 | 1 | 10/19/2025 15:37 | WG2623434 |
| Acrylonitrile | ND | | 0.320 | 1 | 10/19/2025 15:37 | WG2623434 |
| Benzene | 1.28 | | 1.00 | 1 | 10/19/2025 15:37 | WG2623434 |
| Bromochloromethane | ND | | 1.00 | 1 | 10/19/2025 15:37 | WG2623434 |
| Bromodichloromethane | ND | | 1.00 | 1 | 10/19/2025 15:37 | WG2623434 |
| Bromoform | ND | | 1.00 | 1 | 10/19/2025 15:37 | WG2623434 |
| Bromomethane | ND | | 2.50 | 1 | 10/19/2025 15:37 | WG2623434 |
| Carbon disulfide | ND | | 1.00 | 1 | 10/19/2025 15:37 | WG2623434 |
| Carbon tetrachloride | ND | | 1.00 | 1 | 10/19/2025 15:37 | WG2623434 |
| Chlorobenzene | ND | | 1.00 | 1 | 10/19/2025 15:37 | WG2623434 |
| Chloroethane | 9.75 | | 2.50 | 1 | 10/19/2025 15:37 | WG2623434 |
| Chloroform | ND | | 1.00 | 1 | 10/19/2025 15:37 | WG2623434 |
| Chloromethane | ND | | 1.25 | 1 | 10/19/2025 15:37 | WG2623434 |
| Dibromochloromethane | ND | C3 | 1.00 | 1 | 10/19/2025 15:37 | WG2623434 |
| Dibromomethane | ND | | 1.00 | 1 | 10/19/2025 15:37 | WG2623434 |
| Ethylbenzene | ND | | 1.00 | 1 | 10/19/2025 15:37 | WG2623434 |
| Iodomethane | ND | | 10.0 | 1 | 10/19/2025 15:37 | WG2623434 |
| Methylene Chloride | ND | | 2.50 | 1 | 10/19/2025 15:37 | WG2623434 |
| Styrene | ND | | 1.00 | 1 | 10/19/2025 15:37 | WG2623434 |
| Tetrachloroethene | ND | | 1.00 | 1 | 10/19/2025 15:37 | WG2623434 |
| Toluene | ND | | 1.00 | 1 | 10/19/2025 15:37 | WG2623434 |
| Trichloroethene | ND | | 1.00 | 1 | 10/19/2025 15:37 | WG2623434 |
| Trichlorofluoromethane | ND | | 2.50 | 1 | 10/19/2025 15:37 | WG2623434 |
| Vinyl acetate | ND | | 5.00 | 1 | 10/19/2025 15:37 | WG2623434 |
| Vinyl chloride | 20.4 | | 1.00 | 1 | 10/19/2025 15:37 | WG2623434 |
| Xylenes, Total | ND | | 3.00 | 1 | 10/19/2025 15:37 | WG2623434 |
| cis-1,2-Dichloroethene | 26.5 | | 1.00 | 1 | 10/19/2025 15:37 | WG2623434 |
| cis-1,3-Dichloropropene | ND | | 1.00 | 1 | 10/19/2025 15:37 | WG2623434 |
| trans-1,2-Dichloroethene | 3.18 | | 1.00 | 1 | 10/19/2025 15:37 | WG2623434 |
| trans-1,3-Dichloropropene | ND | | 1.00 | 1 | 10/19/2025 15:37 | WG2623434 |
| trans-1,4-Dichloro-2-butene | ND | C3 | 1.00 | 1 | 10/19/2025 15:37 | WG2623434 |
| *(S) 4-Bromofluorobenzene* | *99.7* | | | *67.0-138* | *10/19/2025 15:37* | WG2623434 |
| *(S) Toluene-d8* | *96.3* | | | *75.0-131* | *10/19/2025 15:37* | WG2623434 |
| *(S) 1,2-Dichloroethane-d4* | *96.9* | | | *70.0-130* | *10/19/2025 15:37* | WG2623434 |

## Additional Information - Results for field analyses are not accredited to ISO 17025

| Analyte | Result | Units |
|---|---|---|
| Depth to water (DTW) (FROM TOC) | 18.61 | ftmsl |
| pH (On Site) | 7.02 | su |
| Specific Conductance (on site) | 971 | umhos/cm |
| Temperature (on-site) | 9.7 | Deg. C |
| Turbidity (on-site) | 0 | NTU |
| Dissolved Oxygen (on-site) | 4.7 | mg/l |
| eH/ORP ( On Site ) | 172.9 | mV |

## Gravimetric Analysis by Method 2540 D-2011

| Analyte | Result | Qualifier | RL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|
| | mg/l | | mg/l | | date / time | |
| Suspended Solids | 6.00 | | 2.50 | 1 | 10/17/2025 20:43 | WG2622032 |

## Metals (ICP) by Method 6010C

| Analyte | Result | Qualifier | RL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|
| | mg/l | | mg/l | | date / time | |
| Silver | ND | | 0.0100 | 1 | 10/16/2025 14:54 | WG2621405 |
| Arsenic | ND | | 0.0100 | 1 | 10/16/2025 14:54 | WG2621405 |
| Barium | 0.227 | | 0.0200 | 1 | 10/16/2025 14:54 | WG2621405 |
| Beryllium | ND | | 0.00400 | 1 | 10/16/2025 14:54 | WG2621405 |
| Cadmium | ND | | 0.00500 | 1 | 10/16/2025 14:54 | WG2621405 |
| Chromium | ND | | 0.0100 | 1 | 10/16/2025 14:54 | WG2621405 |
| Copper | ND | | 0.0100 | 1 | 10/16/2025 14:54 | WG2621405 |
| Nickel | ND | | 0.0100 | 1 | 10/16/2025 14:54 | WG2621405 |
| Lead | ND | | 0.0100 | 1 | 10/16/2025 14:54 | WG2621405 |
| Vanadium | ND | | 0.0200 | 1 | 10/16/2025 14:54 | WG2621405 |
| Zinc | ND | | 0.0500 | 1 | 10/16/2025 14:54 | WG2621405 |

## Metals (ICPMS) by Method 6020A

| Analyte | Result | Qualifier | RL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|
| | mg/l | | mg/l | | date / time | |
| Cobalt | ND | | 0.00200 | 1 | 11/19/2025 13:18 | WG2621503 |
| Antimony | ND | | 0.00600 | 1 | 11/19/2025 13:18 | WG2621503 |
| Selenium | ND | | 0.0100 | 1 | 11/19/2025 13:18 | WG2621503 |
| Thallium | ND | | 0.00200 | 1 | 11/19/2025 13:18 | WG2621503 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result | Qualifier | RL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|
| | ug/l | | ug/l | | date / time | |
| 1,1,1,2-Tetrachloroethane | ND | | 1.00 | 1 | 10/19/2025 15:56 | WG2623434 |
| 1,2,3-Trichloropropane | ND | | 0.00580 | 1 | 10/20/2025 15:26 | WG2621481 |
| 1,1,1-Trichloroethane | ND | | 1.00 | 1 | 10/19/2025 15:56 | WG2623434 |
| 1,2-Dibromo-3-Chloropropane | ND | | 0.200 | 1 | 10/20/2025 15:26 | WG2621481 |
| 1,1,2,2-Tetrachloroethane | ND | | 0.300 | 1 | 10/19/2025 15:56 | WG2623434 |
| 1,2-Dibromoethane | ND | | 0.0500 | 1 | 10/20/2025 15:26 | WG2621481 |
| 1,1,2-Trichloroethane | ND | | 1.00 | 1 | 10/19/2025 15:56 | WG2623434 |
| 1,1-Dichloroethane | ND | | 1.00 | 1 | 10/19/2025 15:56 | WG2623434 |
| 1,1-Dichloroethene | ND | | 1.00 | 1 | 10/19/2025 15:56 | WG2623434 |
| 1,2-Dichlorobenzene | ND | | 1.00 | 1 | 10/19/2025 15:56 | WG2623434 |
| 1,2-Dichloroethane | ND | | 1.00 | 1 | 10/19/2025 15:56 | WG2623434 |
| 1,2-Dichloropropane | ND | | 1.00 | 1 | 10/19/2025 15:56 | WG2623434 |
| 1,4-Dichlorobenzene | ND | | 1.00 | 1 | 10/19/2025 15:56 | WG2623434 |
| 2-Butanone (MEK) | ND | | 10.0 | 1 | 10/19/2025 15:56 | WG2623434 |
| 2-Hexanone | ND | | 5.00 | 1 | 10/19/2025 15:56 | WG2623434 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result ug/l | Qualifier | RL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.00 | 1 | 10/19/2025 15:56 | WG2623434 |
| Acetone | ND | | 25.0 | 1 | 10/19/2025 15:56 | WG2623434 |
| Acrylonitrile | ND | | 0.320 | 1 | 10/19/2025 15:56 | WG2623434 |
| Benzene | ND | | 1.00 | 1 | 10/19/2025 15:56 | WG2623434 |
| Bromochloromethane | ND | | 1.00 | 1 | 10/19/2025 15:56 | WG2623434 |
| Bromodichloromethane | ND | | 1.00 | 1 | 10/19/2025 15:56 | WG2623434 |
| Bromoform | ND | | 1.00 | 1 | 10/19/2025 15:56 | WG2623434 |
| Bromomethane | ND | | 2.50 | 1 | 10/19/2025 15:56 | WG2623434 |
| Carbon disulfide | ND | | 1.00 | 1 | 10/19/2025 15:56 | WG2623434 |
| Carbon tetrachloride | ND | | 1.00 | 1 | 10/19/2025 15:56 | WG2623434 |
| Chlorobenzene | ND | | 1.00 | 1 | 10/19/2025 15:56 | WG2623434 |
| Chloroethane | ND | | 2.50 | 1 | 10/19/2025 15:56 | WG2623434 |
| Chloroform | ND | | 1.00 | 1 | 10/19/2025 15:56 | WG2623434 |
| Chloromethane | ND | | 1.25 | 1 | 10/19/2025 15:56 | WG2623434 |
| Dibromochloromethane | ND | C3 | 1.00 | 1 | 10/19/2025 15:56 | WG2623434 |
| Dibromomethane | ND | | 1.00 | 1 | 10/19/2025 15:56 | WG2623434 |
| Ethylbenzene | ND | | 1.00 | 1 | 10/19/2025 15:56 | WG2623434 |
| Iodomethane | ND | | 10.0 | 1 | 10/19/2025 15:56 | WG2623434 |
| Methylene Chloride | ND | | 2.50 | 1 | 10/19/2025 15:56 | WG2623434 |
| Styrene | ND | | 1.00 | 1 | 10/19/2025 15:56 | WG2623434 |
| Tetrachloroethene | ND | | 1.00 | 1 | 10/19/2025 15:56 | WG2623434 |
| Toluene | ND | | 1.00 | 1 | 10/19/2025 15:56 | WG2623434 |
| Trichloroethene | ND | | 1.00 | 1 | 10/19/2025 15:56 | WG2623434 |
| Trichlorofluoromethane | ND | | 2.50 | 1 | 10/19/2025 15:56 | WG2623434 |
| Vinyl acetate | ND | | 5.00 | 1 | 10/19/2025 15:56 | WG2623434 |
| Vinyl chloride | ND | | 1.00 | 1 | 10/19/2025 15:56 | WG2623434 |
| Xylenes, Total | ND | | 3.00 | 1 | 10/19/2025 15:56 | WG2623434 |
| cis-1,2-Dichloroethene | ND | | 1.00 | 1 | 10/19/2025 15:56 | WG2623434 |
| cis-1,3-Dichloropropene | ND | | 1.00 | 1 | 10/19/2025 15:56 | WG2623434 |
| trans-1,2-Dichloroethene | ND | | 1.00 | 1 | 10/19/2025 15:56 | WG2623434 |
| trans-1,3-Dichloropropene | ND | | 1.00 | 1 | 10/19/2025 15:56 | WG2623434 |
| trans-1,4-Dichloro-2-butene | ND | C3 | 1.00 | 1 | 10/19/2025 15:56 | WG2623434 |
| *(S) 4-Bromofluorobenzene* | *99.3* | | | *67.0-138* | *10/19/2025 15:56* | WG2623434 |
| *(S) Toluene-d8* | *94.1* | | | *75.0-131* | *10/19/2025 15:56* | WG2623434 |
| *(S) 1,2-Dichloroethane-d4* | *102* | | | *70.0-130* | *10/19/2025 15:56* | WG2623434 |

## Additional Information - Results for field analyses are not accredited to ISO 17025

| Analyte | Result | Units |
|---|---|---|
| pH (On Site) | 7.27 | su |
| Specific Conductance (on site) | 1006 | umhos/cm |
| Temperature (on-site) | 13.5 | Deg. C |
| Turbidity (on-site) | 8.9 | NTU |
| Dissolved Oxygen (on-site) | 7.11 | mg/l |
| eH/ORP ( On Site ) | 126.1 | mV |

## Gravimetric Analysis by Method 2540 D-2011

| Analyte | Result | Qualifier | RL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|
| | mg/l | | mg/l | | date / time | |
| Suspended Solids | 11.7 | | 2.50 | 1 | 10/17/2025 20:43 | WG2622032 |

## Metals (ICP) by Method 6010C

| Analyte | Result | Qualifier | RL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|
| | mg/l | | mg/l | | date / time | |
| Silver | ND | | 0.0100 | 1 | 10/16/2025 14:56 | WG2621405 |
| Arsenic | 0.0109 | | 0.0100 | 1 | 10/16/2025 14:56 | WG2621405 |
| Barium | 0.178 | | 0.0200 | 1 | 10/16/2025 14:56 | WG2621405 |
| Beryllium | ND | | 0.00400 | 1 | 10/16/2025 14:56 | WG2621405 |
| Cadmium | ND | | 0.00500 | 1 | 10/16/2025 14:56 | WG2621405 |
| Chromium | ND | | 0.0100 | 1 | 10/16/2025 14:56 | WG2621405 |
| Copper | ND | | 0.0100 | 1 | 10/16/2025 14:56 | WG2621405 |
| Nickel | 0.0142 | | 0.0100 | 1 | 10/16/2025 14:56 | WG2621405 |
| Lead | ND | | 0.0100 | 1 | 10/16/2025 14:56 | WG2621405 |
| Vanadium | ND | | 0.0200 | 1 | 10/16/2025 14:56 | WG2621405 |
| Zinc | ND | | 0.0500 | 1 | 10/16/2025 14:56 | WG2621405 |

## Metals (ICPMS) by Method 6020A

| Analyte | Result | Qualifier | RL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|
| | mg/l | | mg/l | | date / time | |
| Cobalt | ND | | 0.00200 | 1 | 11/19/2025 13:21 | WG2621503 |
| Antimony | ND | | 0.00600 | 1 | 11/19/2025 13:21 | WG2621503 |
| Selenium | ND | | 0.0100 | 1 | 11/19/2025 13:21 | WG2621503 |
| Thallium | ND | | 0.00200 | 1 | 11/19/2025 13:21 | WG2621503 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result | Qualifier | RL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|
| | ug/l | | ug/l | | date / time | |
| 1,1,1,2-Tetrachloroethane | ND | | 1.00 | 1 | 10/19/2025 16:15 | WG2623434 |
| 1,2,3-Trichloropropane | ND | | 0.00580 | 1 | 10/20/2025 15:47 | WG2621481 |
| 1,1,1-Trichloroethane | ND | | 1.00 | 1 | 10/19/2025 16:15 | WG2623434 |
| 1,2-Dibromo-3-Chloropropane | ND | | 0.200 | 1 | 10/20/2025 15:47 | WG2621481 |
| 1,1,2,2-Tetrachloroethane | ND | | 0.300 | 1 | 10/19/2025 16:15 | WG2623434 |
| 1,2-Dibromoethane | ND | | 0.0500 | 1 | 10/20/2025 15:47 | WG2621481 |
| 1,1,2-Trichloroethane | ND | | 1.00 | 1 | 10/19/2025 16:15 | WG2623434 |
| 1,1-Dichloroethane | ND | | 1.00 | 1 | 10/19/2025 16:15 | WG2623434 |
| 1,1-Dichloroethene | ND | | 1.00 | 1 | 10/19/2025 16:15 | WG2623434 |
| 1,2-Dichlorobenzene | ND | | 1.00 | 1 | 10/19/2025 16:15 | WG2623434 |
| 1,2-Dichloroethane | ND | | 1.00 | 1 | 10/19/2025 16:15 | WG2623434 |
| 1,2-Dichloropropane | ND | | 1.00 | 1 | 10/19/2025 16:15 | WG2623434 |
| 1,4-Dichlorobenzene | ND | | 1.00 | 1 | 10/19/2025 16:15 | WG2623434 |
| 2-Butanone (MEK) | ND | | 10.0 | 1 | 10/19/2025 16:15 | WG2623434 |
| 2-Hexanone | ND | | 5.00 | 1 | 10/19/2025 16:15 | WG2623434 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.00 | 1 | 10/19/2025 16:15 | WG2623434 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result ug/l | Qualifier | RL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|
| Acetone | ND | | 25.0 | 1 | 10/19/2025 16:15 | WG2623434 |
| Acrylonitrile | ND | | 0.320 | 1 | 10/19/2025 16:15 | WG2623434 |
| Benzene | ND | | 1.00 | 1 | 10/19/2025 16:15 | WG2623434 |
| Bromochloromethane | ND | | 1.00 | 1 | 10/19/2025 16:15 | WG2623434 |
| Bromodichloromethane | ND | | 1.00 | 1 | 10/19/2025 16:15 | WG2623434 |
| Bromoform | ND | | 1.00 | 1 | 10/19/2025 16:15 | WG2623434 |
| Bromomethane | ND | | 2.50 | 1 | 10/19/2025 16:15 | WG2623434 |
| Carbon disulfide | ND | | 1.00 | 1 | 10/19/2025 16:15 | WG2623434 |
| Carbon tetrachloride | ND | | 1.00 | 1 | 10/19/2025 16:15 | WG2623434 |
| Chlorobenzene | ND | | 1.00 | 1 | 10/19/2025 16:15 | WG2623434 |
| Chloroethane | ND | | 2.50 | 1 | 10/19/2025 16:15 | WG2623434 |
| Chloroform | ND | | 1.00 | 1 | 10/19/2025 16:15 | WG2623434 |
| Chloromethane | ND | | 1.25 | 1 | 10/19/2025 16:15 | WG2623434 |
| Dibromochloromethane | ND | C3 | 1.00 | 1 | 10/19/2025 16:15 | WG2623434 |
| Dibromomethane | ND | | 1.00 | 1 | 10/19/2025 16:15 | WG2623434 |
| Ethylbenzene | ND | | 1.00 | 1 | 10/19/2025 16:15 | WG2623434 |
| Iodomethane | ND | | 10.0 | 1 | 10/19/2025 16:15 | WG2623434 |
| Methylene Chloride | ND | | 2.50 | 1 | 10/19/2025 16:15 | WG2623434 |
| Styrene | ND | | 1.00 | 1 | 10/19/2025 16:15 | WG2623434 |
| Tetrachloroethene | ND | | 1.00 | 1 | 10/19/2025 16:15 | WG2623434 |
| Toluene | ND | | 1.00 | 1 | 10/19/2025 16:15 | WG2623434 |
| Trichloroethene | ND | | 1.00 | 1 | 10/19/2025 16:15 | WG2623434 |
| Trichlorofluoromethane | ND | | 2.50 | 1 | 10/19/2025 16:15 | WG2623434 |
| Vinyl acetate | ND | | 5.00 | 1 | 10/19/2025 16:15 | WG2623434 |
| Vinyl chloride | ND | | 1.00 | 1 | 10/19/2025 16:15 | WG2623434 |
| Xylenes, Total | ND | | 3.00 | 1 | 10/19/2025 16:15 | WG2623434 |
| cis-1,2-Dichloroethene | ND | | 1.00 | 1 | 10/19/2025 16:15 | WG2623434 |
| cis-1,3-Dichloropropene | ND | | 1.00 | 1 | 10/19/2025 16:15 | WG2623434 |
| trans-1,2-Dichloroethene | ND | | 1.00 | 1 | 10/19/2025 16:15 | WG2623434 |
| trans-1,3-Dichloropropene | ND | | 1.00 | 1 | 10/19/2025 16:15 | WG2623434 |
| trans-1,4-Dichloro-2-butene | ND | C3 | 1.00 | 1 | 10/19/2025 16:15 | WG2623434 |
| *(S) 4-Bromofluorobenzene* | *101* | | | *67.0-138* | *10/19/2025 16:15* | WG2623434 |
| *(S) Toluene-d8* | *96.8* | | | *75.0-131* | *10/19/2025 16:15* | WG2623434 |
| *(S) 1,2-Dichloroethane-d4* | *97.8* | | | *70.0-130* | *10/19/2025 16:15* | WG2623434 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result | Qualifier | RL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|
| | ug/l | | ug/l | | date / time | |
| 1,1,1,2-Tetrachloroethane | ND | | 1.00 | 1 | 10/19/2025 12:26 | WG2623434 |
| 1,2,3-Trichloropropane | ND | | 0.00580 | 1 | 10/20/2025 16:08 | WG2621481 |
| 1,1,1-Trichloroethane | ND | | 1.00 | 1 | 10/19/2025 12:26 | WG2623434 |
| 1,2-Dibromo-3-Chloropropane | ND | | 0.200 | 1 | 10/20/2025 16:08 | WG2621481 |
| 1,1,2,2-Tetrachloroethane | ND | | 0.300 | 1 | 10/19/2025 12:26 | WG2623434 |
| 1,2-Dibromoethane | ND | | 0.0500 | 1 | 10/20/2025 16:08 | WG2621481 |
| 1,1,2-Trichloroethane | ND | | 1.00 | 1 | 10/19/2025 12:26 | WG2623434 |
| 1,1-Dichloroethane | ND | | 1.00 | 1 | 10/19/2025 12:26 | WG2623434 |
| 1,1-Dichloroethene | ND | | 1.00 | 1 | 10/19/2025 12:26 | WG2623434 |
| 1,2-Dichlorobenzene | ND | | 1.00 | 1 | 10/19/2025 12:26 | WG2623434 |
| 1,2-Dichloroethane | ND | | 1.00 | 1 | 10/19/2025 12:26 | WG2623434 |
| 1,2-Dichloropropane | ND | | 1.00 | 1 | 10/19/2025 12:26 | WG2623434 |
| 1,4-Dichlorobenzene | ND | | 1.00 | 1 | 10/19/2025 12:26 | WG2623434 |
| 2-Butanone (MEK) | ND | | 10.0 | 1 | 10/19/2025 12:26 | WG2623434 |
| 2-Hexanone | ND | | 5.00 | 1 | 10/19/2025 12:26 | WG2623434 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.00 | 1 | 10/19/2025 12:26 | WG2623434 |
| Acetone | ND | | 25.0 | 1 | 10/19/2025 12:26 | WG2623434 |
| Acrylonitrile | ND | | 0.320 | 1 | 10/19/2025 12:26 | WG2623434 |
| Benzene | ND | | 1.00 | 1 | 10/19/2025 12:26 | WG2623434 |
| Bromochloromethane | ND | | 1.00 | 1 | 10/19/2025 12:26 | WG2623434 |
| Bromodichloromethane | ND | | 1.00 | 1 | 10/19/2025 12:26 | WG2623434 |
| Bromoform | ND | | 1.00 | 1 | 10/19/2025 12:26 | WG2623434 |
| Bromomethane | ND | | 2.50 | 1 | 10/19/2025 12:26 | WG2623434 |
| Carbon disulfide | ND | | 1.00 | 1 | 10/19/2025 12:26 | WG2623434 |
| Carbon tetrachloride | ND | | 1.00 | 1 | 10/19/2025 12:26 | WG2623434 |
| Chlorobenzene | ND | | 1.00 | 1 | 10/19/2025 12:26 | WG2623434 |
| Chloroethane | ND | | 2.50 | 1 | 10/19/2025 12:26 | WG2623434 |
| Chloroform | ND | | 1.00 | 1 | 10/19/2025 12:26 | WG2623434 |
| Chloromethane | ND | | 1.25 | 1 | 10/19/2025 12:26 | WG2623434 |
| Dibromochloromethane | ND | C3 | 1.00 | 1 | 10/19/2025 12:26 | WG2623434 |
| Dibromomethane | ND | | 1.00 | 1 | 10/19/2025 12:26 | WG2623434 |
| Ethylbenzene | ND | | 1.00 | 1 | 10/19/2025 12:26 | WG2623434 |
| Iodomethane | ND | | 10.0 | 1 | 10/19/2025 12:26 | WG2623434 |
| Methylene Chloride | ND | | 2.50 | 1 | 10/19/2025 12:26 | WG2623434 |
| Styrene | ND | | 1.00 | 1 | 10/19/2025 12:26 | WG2623434 |
| Tetrachloroethene | ND | | 1.00 | 1 | 10/19/2025 12:26 | WG2623434 |
| Toluene | ND | | 1.00 | 1 | 10/19/2025 12:26 | WG2623434 |
| Trichloroethene | ND | | 1.00 | 1 | 10/19/2025 12:26 | WG2623434 |
| Trichlorofluoromethane | ND | | 2.50 | 1 | 10/19/2025 12:26 | WG2623434 |
| Vinyl acetate | ND | | 5.00 | 1 | 10/19/2025 12:26 | WG2623434 |
| Vinyl chloride | ND | | 1.00 | 1 | 10/19/2025 12:26 | WG2623434 |
| Xylenes, Total | ND | | 3.00 | 1 | 10/19/2025 12:26 | WG2623434 |
| cis-1,2-Dichloroethene | ND | | 1.00 | 1 | 10/19/2025 12:26 | WG2623434 |
| cis-1,3-Dichloropropene | ND | | 1.00 | 1 | 10/19/2025 12:26 | WG2623434 |
| trans-1,2-Dichloroethene | ND | | 1.00 | 1 | 10/19/2025 12:26 | WG2623434 |
| trans-1,3-Dichloropropene | ND | | 1.00 | 1 | 10/19/2025 12:26 | WG2623434 |
| trans-1,4-Dichloro-2-butene | ND | C3 | 1.00 | 1 | 10/19/2025 12:26 | WG2623434 |
| *(S) 4-Bromofluorobenzene* | *98.4* | | | *67.0-138* | *10/19/2025 12:26* | WG2623434 |
| *(S) Toluene-d8* | *95.9* | | | *75.0-131* | *10/19/2025 12:26* | WG2623434 |
| *(S) 1,2-Dichloroethane-d4* | *98.4* | | | *70.0-130* | *10/19/2025 12:26* | WG2623434 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result | Qualifier | RL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|
| | ug/l | | ug/l | | date / time | |
| 1,1,1,2-Tetrachloroethane | ND | | 1.00 | 1 | 10/19/2025 11:29 | WG2623434 |
| 1,2,3-Trichloropropane | ND | | 0.00580 | 1 | 10/20/2025 11:32 | WG2621481 |
| 1,1,1-Trichloroethane | ND | | 1.00 | 1 | 10/19/2025 11:29 | WG2623434 |
| 1,2-Dibromo-3-Chloropropane | ND | | 0.200 | 1 | 10/20/2025 11:32 | WG2621481 |
| 1,1,2,2-Tetrachloroethane | ND | | 0.300 | 1 | 10/19/2025 11:29 | WG2623434 |
| 1,2-Dibromoethane | ND | | 0.0500 | 1 | 10/20/2025 11:32 | WG2621481 |
| 1,1,2-Trichloroethane | ND | | 1.00 | 1 | 10/19/2025 11:29 | WG2623434 |
| 1,1-Dichloroethane | ND | | 1.00 | 1 | 10/19/2025 11:29 | WG2623434 |
| 1,1-Dichloroethene | ND | | 1.00 | 1 | 10/19/2025 11:29 | WG2623434 |
| 1,2-Dichlorobenzene | ND | | 1.00 | 1 | 10/19/2025 11:29 | WG2623434 |
| 1,2-Dichloroethane | ND | | 1.00 | 1 | 10/19/2025 11:29 | WG2623434 |
| 1,2-Dichloropropane | ND | | 1.00 | 1 | 10/19/2025 11:29 | WG2623434 |
| 1,4-Dichlorobenzene | ND | | 1.00 | 1 | 10/19/2025 11:29 | WG2623434 |
| 2-Butanone (MEK) | ND | | 10.0 | 1 | 10/19/2025 11:29 | WG2623434 |
| 2-Hexanone | ND | | 5.00 | 1 | 10/19/2025 11:29 | WG2623434 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.00 | 1 | 10/19/2025 11:29 | WG2623434 |
| Acetone | ND | | 25.0 | 1 | 10/19/2025 11:29 | WG2623434 |
| Acrylonitrile | ND | | 0.320 | 1 | 10/19/2025 11:29 | WG2623434 |
| Benzene | ND | | 1.00 | 1 | 10/19/2025 11:29 | WG2623434 |
| Bromochloromethane | ND | | 1.00 | 1 | 10/19/2025 11:29 | WG2623434 |
| Bromodichloromethane | ND | | 1.00 | 1 | 10/19/2025 11:29 | WG2623434 |
| Bromoform | ND | | 1.00 | 1 | 10/19/2025 11:29 | WG2623434 |
| Bromomethane | ND | | 2.50 | 1 | 10/19/2025 11:29 | WG2623434 |
| Carbon disulfide | ND | | 1.00 | 1 | 10/19/2025 11:29 | WG2623434 |
| Carbon tetrachloride | ND | | 1.00 | 1 | 10/19/2025 11:29 | WG2623434 |
| Chlorobenzene | ND | | 1.00 | 1 | 10/19/2025 11:29 | WG2623434 |
| Chloroethane | ND | | 2.50 | 1 | 10/19/2025 11:29 | WG2623434 |
| Chloroform | ND | | 1.00 | 1 | 10/19/2025 11:29 | WG2623434 |
| Chloromethane | ND | | 1.25 | 1 | 10/19/2025 11:29 | WG2623434 |
| Dibromochloromethane | ND | C3 | 1.00 | 1 | 10/19/2025 11:29 | WG2623434 |
| Dibromomethane | ND | | 1.00 | 1 | 10/19/2025 11:29 | WG2623434 |
| Ethylbenzene | ND | | 1.00 | 1 | 10/19/2025 11:29 | WG2623434 |
| Iodomethane | ND | | 10.0 | 1 | 10/19/2025 11:29 | WG2623434 |
| Methylene Chloride | ND | | 2.50 | 1 | 10/19/2025 11:29 | WG2623434 |
| Styrene | ND | | 1.00 | 1 | 10/19/2025 11:29 | WG2623434 |
| Tetrachloroethene | ND | | 1.00 | 1 | 10/19/2025 11:29 | WG2623434 |
| Toluene | ND | | 1.00 | 1 | 10/19/2025 11:29 | WG2623434 |
| Trichloroethene | ND | | 1.00 | 1 | 10/19/2025 11:29 | WG2623434 |
| Trichlorofluoromethane | ND | | 2.50 | 1 | 10/19/2025 11:29 | WG2623434 |
| Vinyl acetate | ND | | 5.00 | 1 | 10/19/2025 11:29 | WG2623434 |
| Vinyl chloride | ND | | 1.00 | 1 | 10/19/2025 11:29 | WG2623434 |
| Xylenes, Total | ND | | 3.00 | 1 | 10/19/2025 11:29 | WG2623434 |
| cis-1,2-Dichloroethene | ND | | 1.00 | 1 | 10/19/2025 11:29 | WG2623434 |
| cis-1,3-Dichloropropene | ND | | 1.00 | 1 | 10/19/2025 11:29 | WG2623434 |
| trans-1,2-Dichloroethene | ND | | 1.00 | 1 | 10/19/2025 11:29 | WG2623434 |
| trans-1,3-Dichloropropene | ND | | 1.00 | 1 | 10/19/2025 11:29 | WG2623434 |
| trans-1,4-Dichloro-2-butene | ND | C3 | 1.00 | 1 | 10/19/2025 11:29 | WG2623434 |
| *(S) 4-Bromofluorobenzene* | *105* | | | *67.0-138* | *10/19/2025 11:29* | WG2623434 |
| *(S) Toluene-d8* | *96.7* | | | *75.0-131* | *10/19/2025 11:29* | WG2623434 |
| *(S) 1,2-Dichloroethane-d4* | *97.8* | | | *70.0-130* | *10/19/2025 11:29* | WG2623434 |

## Method Blank (MB)

(MB) R4288517-1 10/16/25 20:26

| Analyte | MB Result mg/l | MB Qualifier | MB MDL mg/l | MB RDL mg/l |
|---|---|---|---|---|
| Suspended Solids | ND | | 0.350 | 2.50 |

## L1908037-15 Original Sample (OS) • Duplicate (DUP)

(OS) L1908037-15 10/16/25 20:26 • (DUP) R4288517-3 10/16/25 20:26

| Analyte | Original Result mg/l | DUP Result mg/l | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|---|---|---|---|---|---|---|
| Suspended Solids | 185 | 182 | 1 | 1.63 | | 10 |

## Laboratory Control Sample (LCS)

(LCS) R4288517-2 10/16/25 20:26

| Analyte | Spike Amount mg/l | LCS Result mg/l | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Suspended Solids | 773 | 734 | 95.0 | 85.0-115 | |

## Method Blank (MB)

(MB) R4289110-1 10/17/25 20:43

| Analyte | MB Result mg/l | MB Qualifier | MB MDL mg/l | MB RDL mg/l |
|---|---|---|---|---|
| Suspended Solids | ND | | 0.350 | 2.50 |

## L1908295-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1908295-01 10/17/25 20:43 • (DUP) R4289110-3 10/17/25 20:43

| Analyte | Original Result mg/l | DUP Result mg/l | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|---|---|---|---|---|---|---|
| Suspended Solids | 94.5 | 92.5 | 1 | 2.14 | | 10 |

## L1908410-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1908410-01 10/17/25 20:43 • (DUP) R4289110-4 10/17/25 20:43

| Analyte | Original Result mg/l | DUP Result mg/l | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|---|---|---|---|---|---|---|
| Suspended Solids | 24.0 | 25.0 | 1 | 4.08 | | 10 |

## Laboratory Control Sample (LCS)

(LCS) R4289110-2 10/17/25 20:43

| Analyte | Spike Amount mg/l | LCS Result mg/l | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Suspended Solids | 773 | 736 | 95.2 | 85.0-115 | |

## Method Blank (MB)

(MB) R4288277-1 10/16/25 13:59

| Analyte | MB Result mg/l | MB Qualifier | MB MDL mg/l | MB RDL mg/l |
|---|---|---|---|---|
| Silver | ND | | 0.00280 | 0.00500 |
| Arsenic | ND | | 0.00650 | 0.0100 |
| Barium | ND | | 0.00170 | 0.00500 |
| Beryllium | ND | | 0.000700 | 0.00200 |
| Cadmium | ND | | 0.000700 | 0.00200 |
| Chromium | ND | | 0.00140 | 0.0100 |
| Copper | ND | | 0.00530 | 0.0100 |
| Nickel | ND | | 0.00490 | 0.0100 |
| Lead | ND | | 0.00190 | 0.00500 |
| Vanadium | ND | | 0.00240 | 0.0200 |
| Zinc | ND | | 0.00590 | 0.0500 |

## Laboratory Control Sample (LCS)

(LCS) R4288277-2 10/16/25 14:01

| Analyte | Spike Amount mg/l | LCS Result mg/l | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Silver | 0.200 | 0.211 | 106 | 80.0-120 | |
| Arsenic | 1.00 | 0.997 | 99.7 | 80.0-120 | |
| Barium | 1.00 | 1.04 | 104 | 80.0-120 | |
| Beryllium | 1.00 | 1.03 | 103 | 80.0-120 | |
| Cadmium | 1.00 | 0.991 | 99.1 | 80.0-120 | |
| Chromium | 1.00 | 1.04 | 104 | 80.0-120 | |
| Copper | 1.00 | 1.04 | 104 | 80.0-120 | |
| Nickel | 1.00 | 0.967 | 96.7 | 80.0-120 | |
| Lead | 1.00 | 0.991 | 99.1 | 80.0-120 | |
| Vanadium | 1.00 | 1.00 | 100 | 80.0-120 | |
| Zinc | 1.00 | 1.03 | 103 | 80.0-120 | |

## L1908076-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1908076-01 10/16/25 14:03 • (MS) R4288277-4 10/16/25 14:08 • (MSD) R4288277-5 10/16/25 14:10

| Analyte | Spike Amount mg/l | Original Result mg/l | MS Result mg/l | MSD Result mg/l | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Silver | 0.200 | ND | 0.207 | 0.199 | 104 | 99.6 | 1 | 75.0-125 | | | 3.92 | 20 |
| Arsenic | 1.00 | ND | 0.980 | 0.976 | 98.0 | 97.6 | 1 | 75.0-125 | | | 0.355 | 20 |
| Barium | 1.00 | ND | 1.02 | 1.02 | 102 | 102 | 1 | 75.0-125 | | | 0.362 | 20 |
| Beryllium | 1.00 | ND | 1.00 | 1.00 | 100 | 100 | 1 | 75.0-125 | | | 0.240 | 20 |
| Cadmium | 1.00 | ND | 0.976 | 0.971 | 97.6 | 97.1 | 1 | 75.0-125 | | | 0.486 | 20 |

## L1908076-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1908076-01 10/16/25 14:03 • (MS) R4288277-4 10/16/25 14:08 • (MSD) R4288277-5 10/16/25 14:10

| Analyte | Spike Amount mg/l | Original Result mg/l | MS Result mg/l | MSD Result mg/l | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chromium | 1.00 | ND | 1.03 | 1.03 | 103 | 103 | 1 | 75.0-125 | | | 0.0560 | 20 |
| Copper | 1.00 | ND | 1.02 | 1.03 | 101 | 102 | 1 | 75.0-125 | | | 0.759 | 20 |
| Nickel | 1.00 | ND | 0.951 | 0.949 | 95.1 | 94.9 | 1 | 75.0-125 | | | 0.258 | 20 |
| Lead | 1.00 | ND | 0.973 | 0.973 | 97.3 | 97.3 | 1 | 75.0-125 | | | 0.0497 | 20 |
| Vanadium | 1.00 | ND | 0.972 | 0.980 | 97.2 | 98.0 | 1 | 75.0-125 | | | 0.869 | 20 |
| Zinc | 1.00 | ND | 1.01 | 1.02 | 101 | 101 | 1 | 75.0-125 | | | 0.123 | 20 |

## Method Blank (MB)

(MB) R4301330-1 11/14/25 15:49

| Analyte | MB Result mg/l | MB Qualifier | MB MDL mg/l | MB RDL mg/l |
|---|---|---|---|---|
| Cobalt | ND | | 0.000260 | 0.00200 |
| Antimony | ND | | 0.000754 | 0.00200 |
| Selenium | ND | | 0.000380 | 0.00200 |
| Thallium | ND | | 0.000190 | 0.00200 |

## Laboratory Control Sample (LCS)

(LCS) R4301330-2 11/14/25 15:53

| Analyte | Spike Amount mg/l | LCS Result mg/l | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Cobalt | 0.0500 | 0.0534 | 107 | 80.0-120 | |
| Antimony | 0.0500 | 0.0506 | 101 | 80.0-120 | |
| Selenium | 0.0500 | 0.0528 | 106 | 80.0-120 | |
| Thallium | 0.0500 | 0.0519 | 104 | 80.0-120 | |

## L1908079-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1908079-01 11/14/25 15:56 • (MS) R4301330-4 11/14/25 16:02 • (MSD) R4301330-5 11/14/25 16:05

| Analyte | Spike Amount mg/l | Original Result mg/l | MS Result mg/l | MSD Result mg/l | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Cobalt | 0.0500 | ND | 0.0528 | 0.0533 | 106 | 107 | 1 | 75.0-125 | | | 0.945 | 20 |
| Antimony | 0.0500 | ND | 0.0505 | 0.0517 | 101 | 103 | 1 | 75.0-125 | | | 2.35 | 20 |
| Selenium | 0.0500 | | 0.0537 | 0.0538 | 107 | 108 | 1 | 75.0-125 | | | 0.135 | 20 |
| Thallium | 0.0500 | ND | 0.0510 | 0.0517 | 102 | 103 | 1 | 75.0-125 | | | 1.42 | 20 |

## Method Blank (MB)

(MB) R4303162-1 11/19/25 12:03

| Analyte | MB Result mg/l | MB Qualifier | MB MDL mg/l | MB RDL mg/l |
|---|---|---|---|---|
| Cobalt | ND | | 0.000260 | 0.00200 |
| Antimony | ND | | 0.000754 | 0.00200 |
| Selenium | ND | | 0.000380 | 0.00200 |
| Thallium | ND | | 0.000190 | 0.00200 |

## Laboratory Control Sample (LCS)

(LCS) R4303162-2 11/19/25 12:06

| Analyte | Spike Amount mg/l | LCS Result mg/l | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Cobalt | 0.0500 | 0.0532 | 106 | 80.0-120 | |
| Antimony | 0.0500 | 0.0544 | 109 | 80.0-120 | |
| Selenium | 0.0500 | 0.0523 | 105 | 80.0-120 | |
| Thallium | 0.0500 | 0.0552 | 110 | 80.0-120 | |

## L1908127-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1908127-01 11/19/25 12:21 • (MS) R4303162-4 11/19/25 12:24 • (MSD) R4303162-5 11/19/25 12:28

| Analyte | Spike Amount mg/l | Original Result mg/l | MS Result mg/l | MSD Result mg/l | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Cobalt | 0.0500 | 0.00208 | 0.0542 | 0.0541 | 104 | 104 | 1 | 75.0-125 | | | 0.201 | 20 |
| Antimony | 0.0500 | ND | 0.0586 | 0.0586 | 115 | 115 | 1 | 75.0-125 | | | 0.00314 | 20 |
| Selenium | 0.0500 | ND | 0.0532 | 0.0524 | 106 | 105 | 1 | 75.0-125 | | | 1.53 | 20 |
| Thallium | 0.0500 | ND | 0.0536 | 0.0551 | 107 | 110 | 1 | 75.0-125 | | | 2.71 | 20 |

## Method Blank (MB)

(MB) R4289725-2 10/20/25 11:11

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|---|---|---|---|---|
| 1,2,3-Trichloropropane | ND | | 0.00200 | 0.00500 |
| 1,2-Dibromo-3-Chloropropane | ND | | 0.000520 | 0.00500 |
| 1,2-Dibromoethane | ND | | 0.00410 | 0.00500 |

## Laboratory Control Sample (LCS)

(LCS) R4289725-1 10/20/25 10:50

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| 1,2,3-Trichloropropane | 0.0500 | 0.0500 | 100 | 70.0-130 | |
| 1,2-Dibromo-3-Chloropropane | 0.0500 | 0.0460 | 92.0 | 70.0-130 | |
| 1,2-Dibromoethane | 0.0500 | 0.0530 | 106 | 70.0-130 | |

## Method Blank (MB)

(MB) R4289599-3 10/19/25 10:44

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | | 0.0379 | 0.500 |
| 1,1,1-Trichloroethane | ND | | 0.0369 | 0.500 |
| 1,1,2,2-Tetrachloroethane | ND | | 0.0278 | 0.100 |
| 1,1,2-Trichloroethane | ND | | 0.0239 | 0.500 |
| 1,1-Dichloroethane | ND | | 0.0196 | 0.500 |
| 1,1-Dichloroethene | ND | | 0.0242 | 0.500 |
| 1,2-Dichlorobenzene | ND | | 0.0170 | 0.500 |
| 1,2-Dichloroethane | ND | | 0.0260 | 0.500 |
| 1,2-Dichloropropane | ND | | 0.0568 | 0.500 |
| 1,4-Dichlorobenzene | ND | | 0.0280 | 0.500 |
| 2-Butanone (MEK) | ND | | 2.54 | 5.00 |
| 2-Hexanone | ND | | 0.134 | 5.00 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 0.0912 | 5.00 |
| Acetone | ND | | 1.46 | 25.0 |
| Acrylonitrile | ND | | 0.144 | 0.500 |
| Benzene | ND | | 0.0187 | 0.500 |
| Bromochloromethane | ND | | 0.0226 | 0.500 |
| Bromodichloromethane | ND | | 0.0290 | 0.500 |
| Bromoform | ND | | 0.0468 | 1.00 |
| Bromomethane | ND | | 0.0788 | 2.50 |
| Carbon disulfide | ND | | 0.0280 | 0.500 |
| Carbon tetrachloride | ND | | 0.0359 | 0.500 |
| Chlorobenzene | ND | | 0.00840 | 0.500 |
| Chloroethane | ND | | 0.0680 | 2.50 |
| Chloroform | ND | | 0.0412 | 0.500 |
| Chloromethane | ND | | 0.174 | 1.25 |
| Dibromochloromethane | ND | | 0.0245 | 0.500 |
| Dibromomethane | ND | | 0.0300 | 0.500 |
| Ethylbenzene | ND | | 0.0295 | 0.500 |
| Iodomethane | ND | | 0.0928 | 5.00 |
| Methylene Chloride | ND | | 0.266 | 2.50 |
| Styrene | ND | | 0.00916 | 0.500 |
| Tetrachloroethene | ND | | 0.0358 | 0.500 |
| Toluene | ND | | 0.0520 | 0.500 |
| Trichloroethene | ND | | 0.0234 | 0.500 |
| Trichlorofluoromethane | ND | | 0.0331 | 2.50 |
| Vinyl acetate | ND | | 0.102 | 5.00 |
| Vinyl chloride | ND | | 0.0462 | 0.500 |
| Xylenes, Total | ND | | 0.0352 | 1.50 |
| cis-1,2-Dichloroethene | ND | | 0.0294 | 0.500 |

## Method Blank (MB)

(MB) R4289599-3 10/19/25 10:44

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|---|---|---|---|---|
| cis-1,3-Dichloropropene | ND | | 0.0303 | 0.500 |
| trans-1,2-Dichloroethene | ND | | 0.0416 | 0.500 |
| trans-1,3-Dichloropropene | ND | | 0.0456 | 0.500 |
| trans-1,4-Dichloro-2-butene | ND | | 0.0744 | 0.200 |
| *(S) 4-Bromofluorobenzene* | *99.4* | | | *67.0-138* |
| *(S) Toluene-d8* | *96.6* | | | *75.0-131* |
| *(S) 1,2-Dichloroethane-d4* | *97.9* | | | *70.0-130* |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4289599-1 10/19/25 09:09 • (LCSD) R4289599-2 10/19/25 09:28

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCSD Result ug/l | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 10.0 | 8.62 | 8.68 | 86.2 | 86.8 | 74.0-129 | | | 0.694 | 20 |
| 1,1,1-Trichloroethane | 10.0 | 9.00 | 9.15 | 90.0 | 91.5 | 69.0-126 | | | 1.65 | 20 |
| 1,1,2,2-Tetrachloroethane | 10.0 | 8.50 | 8.73 | 85.0 | 87.3 | 68.0-128 | | | 2.67 | 20 |
| 1,1,2-Trichloroethane | 10.0 | 8.93 | 9.16 | 89.3 | 91.6 | 78.0-123 | | | 2.54 | 20 |
| 1,1-Dichloroethane | 10.0 | 9.76 | 9.83 | 97.6 | 98.3 | 70.0-127 | | | 0.715 | 20 |
| 1,1-Dichloroethene | 10.0 | 9.86 | 10.0 | 98.6 | 100 | 65.0-131 | | | 1.41 | 20 |
| 1,2-Dichlorobenzene | 10.0 | 9.26 | 9.57 | 92.6 | 95.7 | 76.0-124 | | | 3.29 | 20 |
| 1,2-Dichloroethane | 10.0 | 9.04 | 8.72 | 90.4 | 87.2 | 65.0-131 | | | 3.60 | 20 |
| 1,2-Dichloropropane | 10.0 | 9.83 | 9.98 | 98.3 | 99.8 | 74.0-125 | | | 1.51 | 20 |
| 1,4-Dichlorobenzene | 10.0 | 8.76 | 9.01 | 87.6 | 90.1 | 77.0-121 | | | 2.81 | 20 |
| 2-Butanone (MEK) | 50.0 | 55.7 | 56.1 | 111 | 112 | 30.0-160 | | | 0.716 | 24 |
| 2-Hexanone | 50.0 | 50.4 | 50.8 | 101 | 102 | 54.0-147 | | | 0.791 | 20 |
| 4-Methyl-2-pentanone (MIBK) | 50.0 | 57.8 | 57.6 | 116 | 115 | 56.0-143 | | | 0.347 | 20 |
| Acetone | 50.0 | 41.0 | 44.6 | 82.0 | 89.2 | 10.0-160 | | | 8.41 | 31 |
| Acrylonitrile | 50.0 | 63.5 | 63.3 | 127 | 127 | 45.0-153 | | | 0.315 | 22 |
| Benzene | 10.0 | 9.40 | 9.47 | 94.0 | 94.7 | 70.0-123 | | | 0.742 | 20 |
| Bromochloromethane | 10.0 | 9.92 | 10.1 | 99.2 | 101 | 77.0-128 | | | 1.80 | 20 |
| Bromodichloromethane | 10.0 | 9.34 | 9.47 | 93.4 | 94.7 | 73.0-121 | | | 1.38 | 20 |
| Bromoform | 10.0 | 8.16 | 8.19 | 81.6 | 81.9 | 64.0-132 | | | 0.367 | 20 |
| Bromomethane | 10.0 | 12.6 | 13.1 | 126 | 131 | 56.0-147 | | | 3.89 | 20 |
| Carbon disulfide | 10.0 | 8.23 | 8.52 | 82.3 | 85.2 | 56.0-133 | | | 3.46 | 20 |
| Carbon tetrachloride | 10.0 | 8.54 | 8.89 | 85.4 | 88.9 | 66.0-128 | | | 4.02 | 20 |
| Chlorobenzene | 10.0 | 8.98 | 9.14 | 89.8 | 91.4 | 76.0-128 | | | 1.77 | 20 |
| Chloroethane | 10.0 | 9.65 | 9.90 | 96.5 | 99.0 | 61.0-134 | | | 2.56 | 20 |
| Chloroform | 10.0 | 9.81 | 10.0 | 98.1 | 100 | 72.0-123 | | | 1.92 | 20 |
| Chloromethane | 10.0 | 12.4 | 12.5 | 124 | 125 | 51.0-138 | | | 0.803 | 20 |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4289599-1 10/19/25 09:09 • (LCSD) R4289599-2 10/19/25 09:28

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCSD Result ug/l | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Dibromochloromethane | 10.0 | 7.72 | 7.97 | 77.2 | 79.7 | 74.0-127 | | | 3.19 | 20 |
| Dibromomethane | 10.0 | 9.36 | 9.33 | 93.6 | 93.3 | 75.0-122 | | | 0.321 | 20 |
| Ethylbenzene | 10.0 | 8.75 | 8.84 | 87.5 | 88.4 | 74.0-126 | | | 1.02 | 20 |
| Iodomethane | 50.0 | 45.5 | 46.0 | 91.0 | 92.0 | 74.0-134 | | | 1.09 | 20 |
| Methylene Chloride | 10.0 | 9.89 | 10.1 | 98.9 | 101 | 68.0-123 | | | 2.10 | 20 |
| Styrene | 10.0 | 8.89 | 9.17 | 88.9 | 91.7 | 72.0-127 | | | 3.10 | 20 |
| Tetrachloroethene | 10.0 | 8.32 | 8.58 | 83.2 | 85.8 | 70.0-136 | | | 3.08 | 20 |
| Toluene | 10.0 | 8.79 | 9.04 | 87.9 | 90.4 | 75.0-121 | | | 2.80 | 20 |
| Trichloroethene | 10.0 | 9.41 | 9.50 | 94.1 | 95.0 | 76.0-126 | | | 0.952 | 20 |
| Trichlorofluoromethane | 10.0 | 9.74 | 9.91 | 97.4 | 99.1 | 61.0-142 | | | 1.73 | 20 |
| Vinyl acetate | 50.0 | 64.9 | 64.9 | 130 | 130 | 43.0-159 | | | 0.000 | 20 |
| Vinyl chloride | 10.0 | 11.7 | 12.1 | 117 | 121 | 63.0-134 | | | 3.36 | 20 |
| Xylenes, Total | 30.0 | 26.3 | 27.5 | 87.7 | 91.7 | 72.0-127 | | | 4.46 | 20 |
| cis-1,2-Dichloroethene | 10.0 | 9.40 | 9.26 | 94.0 | 92.6 | 73.0-125 | | | 1.50 | 20 |
| cis-1,3-Dichloropropene | 10.0 | 9.62 | 9.85 | 96.2 | 98.5 | 76.0-127 | | | 2.36 | 20 |
| trans-1,2-Dichloroethene | 10.0 | 9.06 | 9.41 | 90.6 | 94.1 | 71.0-125 | | | 3.79 | 20 |
| trans-1,3-Dichloropropene | 10.0 | 8.55 | 8.75 | 85.5 | 87.5 | 73.0-127 | | | 2.31 | 20 |
| trans-1,4-Dichloro-2-butene | 10.0 | 7.87 | 8.64 | 78.7 | 86.4 | 45.0-143 | | | 9.33 | 20 |
| *(S) 4-Bromofluorobenzene* | | | | *98.5* | *99.9* | *67.0-138* | | | | |
| *(S) Toluene-d8* | | | | *93.7* | *94.1* | *75.0-131* | | | | |
| *(S) 1,2-Dichloroethane-d4* | | | | *101* | *103* | *70.0-130* | | | | |

# GLOSSARY OF TERMS

## Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

## Abbreviations and Definitions

| | |
|---|---|
| MDL | Method Detection Limit. |
| ND | Not detected at the Reporting Limit (or MDL where applicable). |
| RDL | Reported Detection Limit. |
| Rec. | Recovery. |
| RPD | Relative Percent Difference. |
| SDG | Sample Delivery Group. |
| (S) | Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media. |
| Analyte | The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported. |
| Dilution | If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor. |
| Limits | These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges. |
| Original Sample | The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG. |
| Qualifier | This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable. |
| Result | The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte. |
| Uncertainty (Radiochemistry) | Confidence level of 2 sigma. |
| U (Radiochemistry) | Result + Error < MDA. |
| J (Radiochemistry) | Result < MDA; Result + Error > MDA. |
| Case Narrative (Cn) | A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report. |
| Quality Control Summary (Qc) | This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material. |
| Sample Chain of Custody (Sc) | This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis. |
| Sample Results (Sr) | This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported. |
| Sample Summary (Ss) | This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis. |

| Qualifier | Description |
|---|---|
| C3 | The reported concentration is an estimate. The continuing calibration standard associated with this data responded low. Method sensitivity check is acceptable. |

# ACCREDITATIONS & LOCATIONS

## Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

| | | | |
|---|---|---|---|
| Alabama | 40660 | Nebraska | NE-OS-15-05 |
| Alaska | 17-026 | Nevada | TN000032021-1 |
| Arizona | AZ0612 | New Hampshire | 2975 |
| Arkansas | 88-0469 | New Jersey–NELAP | TN002 |
| California | 2932 | New Mexico [1] | TN00003 |
| Colorado | TN00003 | New York | 11742 |
| Connecticut | PH-0197 | North Carolina | Env375 |
| Florida | E87487 | North Carolina [1] | DW21704 |
| Georgia | NELAP | North Carolina [3] | 41 |
| Georgia [1] | 923 | North Dakota | R-140 |
| Idaho | TN00003 | Ohio–VAP | CL0069 |
| Illinois | 200008 | Oklahoma | 9915 |
| Indiana | C-TN-01 | Oregon | TN200002 |
| Iowa | 364 | Pennsylvania | 68-02979 |
| Kansas | E-10277 | Rhode Island | LA000356 |
| Kentucky [1 6] | KY90010 | South Carolina | 84004002 |
| Kentucky [2] | 16 | South Dakota | n/a |
| Louisiana | AI30792 | Tennessee [1 4] | 2006 |
| Louisiana | LA018 | Texas | T104704245-20-18 |
| Maine | TN00003 | Texas [5] | LAB0152 |
| Maryland | 324 | Utah | TN000032021-11 |
| Massachusetts | M-TN003 | Vermont | VT2006 |
| Michigan | 9958 | Virginia | 110033 |
| Minnesota | 047-999-395 | Washington | C847 |
| Mississippi | TN00003 | West Virginia | 233 |
| Missouri | 340 | Wisconsin | 998093910 |
| Montana | CERT0086 | Wyoming | A2LA |
| A2LA – ISO 17025 | 1461.01 | AIHA-LAP,LLC EMLAP | 100789 |
| A2LA – ISO 17025 [5] | 1461.02 | DOD | 1461.01 |
| Canada | 1461.01 | USDA | P330-15-00234 |
| EPA–Crypto | TN00003 | | |

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

Company Name/Address:
**Dickinson Landfill**

C/O Spruce Ridge 12755 137th Street
Glencoe, MN 55336

Billing Information:
Accounts Payable/ddemory@wm.com
PO Box 4745
Portland, OR 97208-4745

Pres Chk: 17

Report to:
Andy McCain 320-864-5503

Email To:
ddemory@wm.com;cory.anderson2@stantec.co

Project Description:
Semiannual GW Detection (10-11)

City/State Collected:

Please Circle: PT MT CT ET

Regulatory Program(DOD,RCRA,DW,etc):

Client Project #
200

Lab Project #
WMDICIA-00004

Collected by (print):
Dylan Schreckenberg

Site/Facility ID #
IA01

P.O. #

Collected by (signature):
Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day ___ STD TAT

Quote #

Date Results Needed

No. of Cntrs

Analysis / Container / Preservative

| Sample ID | Comp/Grab | Matrix * | Depth | Date | Time | No. of Cntrs | Metals 250mlHDPE-HNO3 | TSS 1L-HDPE NoPres | V524LL 40mlAmb-HCl | V524LL 40mlAmb-HCl-Blk | V8260ULLC 40mlAmb-HCl | V8260ULLC 40mlAmb-HCl-Blk | Remarks | Sample # (lab only) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-40A | | GW | | 14Oct25 | 1122 | 8 | X | X | X | | X | | | -01 |
| MW-39A | | GW | | | 1030 | 8 | X | X | X | | X | | | -02 |
| MW-38A | | GW | | | 1208 | 8 | X | X | X | | X | | | -03 |
| MW-37A | | GW | | | 1135 | 8 | X | X | X | | X | | | -04 |
| ~~MW-36A~~ | | ~~GW~~ | — | | — | 8 | X | X | X | | X | | | |
| MW-34A | | GW | | | NS | 8 | X | X | X | | X | | | -05 |
| MW-23A | | GW | | | 1104 | 8 | X | X | X | | X | | | -06 |
| MW-21A | | GW | | | 1150 | 8 | X | X | X | | X | | | -07 |
| MW-19A | | GW | | | 1152 | 8 | X | X | X | | X | | | -08 |
| MW-13A | | GW | | | 1024 | 8 | X | X | X | | X | | | -09 |

Chain of Custody Page ___ of ___

Pace
PEOPLE ADVANCING SCIENCE

**MT JULIET, TN**
12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

L1905009

E011

Acctnum: WMDICIA
Template: T174566
Prelogin: P1183046
PM: 3564 - Chad A Upchurch
PB: 10/9/25 mv
Shipped Via: FedEx Ground

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking # multi

Sample Receipt Checklist

| | | |
|---|---|---|
| COC Seal Present/Intact: | NP | Y N |
| COC Signed/Accurate: | | Y N |
| Bottles arrive intact: | | Y N |
| Correct bottles used: | | Y N |
| Sufficient volume sent: | | Y N |
| If Applicable | | |
| VOA Zero Headspace: | | Y N |
| Preservation Correct/Checked: | | Y N |
| RAD Screen <0.5 mR/hr: | | Y N |

| | | | | |
|---|---|---|---|---|
| Relinquished by : (Signature) | Date: 14Oct25 | Time: 1530 | Received by: (Signature) | Trip Blank Received: Yes / No HCl / MeoH TBR |
| Relinquished by : (Signature) | Date: | Time: | Received by: (Signature) | Temp: °C Bottles Received: multi 94 |
| Relinquished by : (Signature) | Date: | Time: | Received for lab by: (Signature) | Date: 10-15-25 Time: 0900 |

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

Company Name/Address:
**Dickinson Landfill**

**C/O Spruce Ridge 12755 137th Street**
**Glencoe, MN 55336**

Billing Information:
**Accounts Payable/ddemory@wm.com**
**PO Box 4745**
**Portland, OR 97208-4745**

Report to:
**Andy McCain 320-864-5503**

Email To:
**ddemory@wm.com;cory.anderson2@stantec.co**

Project Description:
**Semiannual GW Detection (10-11)**

City/State Collected:

Please Circle: PT MT CT ET

Regulatory Program(DOD,RCRA,DW,etc):

Client Project #
**200**

Lab Project #
**WMDICIA-00004**

Collected by (print):
Dylan Schrieber

Site/Facility ID #
**IA01**

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y ___

*Rush?* (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day ___ STD TAT

Quote #

Date Results Needed

Analysis / Container / Preservative

| Sample ID | Comp/Grab | Matrix * | Depth | Date | Time | No. of Cntrs | Pres Chk | Metals 250mlHDPE-HNO3 | TSS 1L-HDPE NoPres | V524LL 40mlAmb-HCl | V524LL 40mlAmb-HCl-Blk | V8260ULLC 40mlAmb-HCl | V8260ULLC 40mlAmb-HCl-Blk | Remarks | Sample # (lab only) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-12A | | GW | | 10/14/25 | 1117 | 8 | | X | X | X | | X | | | -10 |
| MW-11A | | GW | | | 1035 | 8 | | X | X | X | | X | | | -11 |
| HOLDING POND | | GW | | | 1225 | 8 | | X | X | X | | X | | | -12 |
| FIELD BLANK | | GW | | | 1015 | 6 | | | | X | | X | | | -13 |
| TRIP BLANK | | GW | | | 800 | 4 | | | | | X | | X | | -14 |

Chain of Custody Page ___ of ___

Pace
PEOPLE ADVANCING SCIENCE

**MT JULIET, TN**

12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # L1908099

Table #

Acctnum: **WMDICIA**
Template: **T174566**
Prelogin: **P1183046**
PM: **3564 - Chad A Upchurch**
PB: 10/9/25 mv
Shipped Via: **FedEX Ground**

* Matrix:
**SS** - Soil **AIR** - Air **F** - Filter
**GW** - Groundwater **B** - Bioassay
**WW** - WasteWater
**DW** - Drinking Water
**OT** - Other_____

**Remarks:**

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking # multi

Sample Receipt Checklist
COC Seal Present/Intact: __NP ✓Y __N
COC Signed/Accurate: ✓Y __N
Bottles arrive intact: ✓Y __N
Correct bottles used: ✓Y __N
Sufficient volume sent: ✓Y __N
If Applicable
VOA Zero Headspace: ✓Y __N
Preservation Correct/Checked: ✓Y __N
RAD Screen <0.5 mR/hr: ✓Y __N

| Relinquished by : (Signature) | Date: | Time: | Received by: (Signature) | Trip Blank Received: Yes / No / HCL / MeoH / TBR | If preservation required by Login: Date/Time |
|---|---|---|---|---|---|
| Dylan Schrieber | 10/14/25 | 1530 | | 4 | |
| Relinquished by : (Signature) | Date: | Time: | Received by: (Signature) | Temp: °C Bottles Received: multi 94 | |
| Relinquished by : (Signature) | Date: | Time: | Received for lab by: (Signature) | Date: 10-15-25 Time: 0900 | Hold: Condition: NCF / OK |

# FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: Dickinson

Site No.:

Sample Point: MW-40A (Sample ID)

**This Waste Management Field Information Form is Required**
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID: U908099

## PURGE INFO

| PURGE DATE (MM DD YY) | PURGE TIME (2400 Hr Clock) | ELAPSED HRS (hrs:min) | WATER VOL IN CASING (Gallons) | ACTUAL VOL PURGED (Gallons) | WELL VOLs PURGED |
|---|---|---|---|---|---|
| 10 14 25 | 11:10 | :12 | 23 | 72 | 3.0 |

*Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.*

## PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment ... Dedicated: (Y) or N

Purging Device: C — A- Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device: C

X-Other:

Filter Device: Y or (N) — 0.45 µ or ____ µ (circle or fill in)

Filter Type: — A-In-line Disposable, B-Pressure, C-Vacuum, X-Other ____

Sample Tube Type: D — A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other: ____

## WELL DATA

Well Elevation (at TOC): ____ (ft/msl)

Depth to Water (DTW) (from TOC): 18.14 (ft)

Groundwater Elevation (site datum, from TOC): ____ (ft/msl)

Total Well Depth (from TOC): 32.15 (ft)

Stick Up (from ground elevation): ____ (ft)

Casing ID: 2 (in)

Casing Material: PVC

*Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.*

## STABILIZATION DATA (Optional)

| Sample Time (2400 Hr Clock) | Rate/Unit | pH (std) | Conductance (SC/EC) (µmhos/cm @ 25 °C) | Temp. (°C) | Turbidity (ntu) | D.O. (mg/L - ppm) | eH/ORP (mV) | DTW (ft) |
|---|---|---|---|---|---|---|---|---|
| 11:14 | 0.6 1st | 7.14 1st | 686 1st | 12.2 | 2.8 | 8.2 | 121.3 | |
| 11:18 | " 2nd | 7.14 2nd | 685 2nd | 12.2 | 8.5 | 8.2 | 120.3 | |
| 11:22 | " 3rd | 7.15 3rd | 684 3rd | 12.1 | 16.5 | 8.2 | 119.3 | |
| | | 4th | 4th | | | | | |
| Suggested range for 3 consec. readings or note Permit/State requirements: | | +/- 0.2 | +/- 3% | -- | -- | +/- 10% | +/- 25 mV | Stabilize |

**Stabilization Data Fields are Optional** *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form*

## FIELD DATA

| SAMPLE DATE (MM DD YY) | pH (std) | CONDUCTANCE (umhos/cm @ 25°C) | TEMP. (°C) | TURBIDITY (ntu) | DO (mg/L-ppm) | eH/ORP (mV) | Other: ____ Units ____ |
|---|---|---|---|---|---|---|---|
| 10 14 25 | 7.15 | 684 | 12.1 | 16.5 | 8.2 | 119.3 | |

**Final Field Readings are required** *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

**Sample Appearance:** Clear — Odor: none — Color: none — Other: none

**Weather Conditions** (required daily, or as conditions change): Direction/Speed: 11E — Outlook: 51 Rain — Precipitation: (Y) or N

**Specific Comments (including purge/well volume calculations if required):**

## FIELD COMMENTS

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

| Date | Name | Signature | Company |
|---|---|---|---|
| 10/14/25 | Zack Helgot | Zack Helgot | NWTL |

**DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client**

ORIGINAL COPY

# FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: Dickinson

Site No.: ____ Sample Point: MW-39A (Sample ID)

**This Waste Management Field Information Form is Required**
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID: C9080099

## PURGE INFO

| PURGE DATE (MM DD YY) | PURGE TIME (2400 Hr Clock) | ELAPSED HRS (hrs:min) | WATER VOL IN CASING (Gallons) | ACTUAL VOL PURGED (Gallons) | WELL VOLs PURGED |
|---|---|---|---|---|---|
| 10/14/25 | 10:15 | :15 | 1.5 | 7.5 | 5.0 |

*Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.*

## PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment … Dedicated: (Y) or N

Purging Device: C — A- Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device: C

X-Other:

Filter Device: Y or (N) — 0.45 µ or ____ µ (circle or fill in)

Filter Type: — A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

Sample Tube Type: D — A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

## WELL DATA

Well Elevation (at TOC): ____ (ft/msl)

Depth to Water (DTW) (from TOC): 14.65 (ft)

Groundwater Elevation (site datum, from TOC): ____ (ft/msl)

Total Well Depth (from TOC): 23.95 (ft)

Stick Up (from ground elevation): ____ (ft)

Casing ID: 2 (in)

Casing Material: PVC

*Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.*

## STABILIZATION DATA (Optional)

| Sample Time (2400 Hr Clock) | Rate/Unit | pH (std) | Conductance (SC/EC) (µmhos/cm @ 25 °C) | Temp. (°C) | Turbidity (ntu) | D.O. (mg/L - ppm) | eH/ORP (mV) | DTW (ft) |
|---|---|---|---|---|---|---|---|---|
| 10:18 | 0.5 | 1st 7.08 | 1st 742 | 11.2 | 40.1 | 10.4 | 139.6 | |
| 10:21 | " | 2nd 7.11 | 2nd 758 | 11.0 | 21.5 | 10.8 | 136.0 | |
| 10:24 | " | 3rd 7.11 | 3rd 792 | 11.0 | 5.3 | 11.0 | 130.4 | |
| 10:27 | " | 4th 7.10 | 4th 817 | 10.9 | 16.7 | 11.0 | 125.4 | |
| 10:30 | " | 7.10 | 824 | 10.9 | 4.9 | 10.8 | 124.4 | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| Suggested range for 3 consec. readings or note Permit/State requirements: | | +/- 0.2 | +/- 3% | -- | -- | +/- 10% | +/- 25 mV | Stabilize |

**Stabilization Data Fields are Optional** *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form*

## FIELD DATA

| SAMPLE DATE (MM DD YY) | pH (std) | CONDUCTANCE (umhos/cm @ 25°C) | TEMP. (°C) | TURBIDITY (ntu) | DO (mg/L-ppm) | eH/ORP (mV) | Other: Units |
|---|---|---|---|---|---|---|---|
| 10/14/25 | 7.10 | 824 | 10.9 | 4.9 | 10.8 | 124.4 | |

**Final Field Readings are required** *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

## FIELD COMMENTS

**Sample Appearance:** Clear Odor: none Color: none Other: none

**Weather Conditions** (required daily, or as conditions change): Direction/Speed: 11 E Outlook: SI/Cloudy Precipitation: Y or (N)

**Specific Comments (including purge/well volume calculations if required):**

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

| Date | Name | Signature | Company |
|---|---|---|---|
| 10/14/25 | Zack Helget | Zack Helget | MVTL |

**DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client**

ORIGINAL COPY

LP108099

# GROUNDWATER SAMPLING AND/OR GROUNDWATER ELEVATION MEASUREMENT

Site Name Dickinson Co. SLF Permit No. _____

Monitoring Well/Piezometer No. MW-39A Upgradient _____
Downgradient _____

Name of person sampling DF/ZH

## A. MONITORING WELL/PIEZOMETER CONDITIONS

Well/Piezometer Properly Capped NO Standing Water of Litter? _____
If no, explain Broken cap by lock If yes, explain _____

## B. GROUNDWATER ELEVATION MEASUREMENT (± 0.01 foot, MSL)

Elevation: Top of inner well casing NA Ground Elevation NA
Depth of Well 23.95 Inside casing diameter ( in inches ) 2
Equipment Used EI Water Level Indicator

Groundwater Level ( ± 0.01 foot below top of inner casing, MSL) :

| | Date/Time | Depth to Groundwater | Groundwater Elevation |
|---|---|---|---|
| Before Purging | 10-14-25 1015 | 14.65 | |
| * After Purging | " 1030 | 17.25 | |
| * Before Sampling | " 1030 | 17.25 | |

## C. WELL PURGING

Quantity of Water Removed from Well ( gallons ) 7.5
No. of Well Volumes ( based on current water level ) 5
Was well pumped / bailed dry? NO

Equipment used:
Bailer type _____ Dedicated Bailer? _____
Pump type QED Bladder Dedicated Pump? Yes
If not dedicated, method of cleaning _____

## *D. FIELD MEASUREMENT

Weather Conditions 51 11 E Overcast
Field Measurements ( after stabilization ):
Temperature 10.9 Units °C
Equipment Used YSI 6820 Multi Parameter Meter
pH 7.10
Equipment Used YSI 6820 Multi Parameter Meter
Specific Cond. 824
Equipment Used YSI 6820 Multi Parameter Meter

Comments _____

# FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: Dickinson SLF

Site No.:

Sample Point: MW-38A (Sample ID)

**This Waste Management Field Information Form is Required**
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID: L9088099

## PURGE INFO

| PURGE DATE (MM DD YY) | PURGE TIME (2400 Hr Clock) | ELAPSED HRS (hrs:min) | WATER VOL IN CASING (Gallons) | ACTUAL VOL PURGED (Gallons) | WELL VOLs PURGED |
|---|---|---|---|---|---|
| 10/14/25 | 11:47 | :21 | 26.4 | 84 | 3.0 |

*Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.*

## PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment … Dedicated: (Y) or N

Purging Device: C

Sampling Device: C

A- Submersible Pump; B-Peristaltic Pump; C-QED Bladder Pump; D-Bailer; E-Piston Pump; F-Dipper/Bottle

X-Other:

Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)

Filter Type:

A-In-line Disposable; B-Pressure; C-Vacuum; X-Other ____

Sample Tube Type:

A-Teflon; B-Stainless Steel; C-PVC; D-Polypropylene; X-Other: ____

## WELL DATA

| Well Elevation (at TOC) | Depth to Water (DTW) (from TOC) | Groundwater Elevation (site datum, from TOC) |
|---|---|---|
| NA (ft/msl) | 16.71 (ft) | NA (ft/msl) |

| Total Well Depth (from TOC) | Stick Up (from ground elevation) | Casing ID | Casing Material |
|---|---|---|---|
| 32.41 (ft) | (ft) | 2 (in) | |

*Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.*

## STABILIZATION DATA (Optional)

| Sample Time (2400 Hr Clock) | Rate/Unit | pH (std) | Conductance (SC/EC) (µmhos/cm @ 25 °C) | Temp. (°C) | Turbidity (ntu) | D.O. (mg/L - ppm) | eH/ORP (mV) | DTW (ft) |
|---|---|---|---|---|---|---|---|---|
| 11:54 | 2.8 1st | 6.79 1st | 1.154 1st | 11.5 | 6.1 | 0.6 | 282 | |
| 12:01 | 5.6 2nd | 6.78 2nd | 1.143 2nd | 11.5 | 1.6 | 0.5 | 351 | |
| 12:08 | 8.4 3rd | 6.77 3rd | 1.139 3rd | 11.5 | 0.0 | 0.5 | 405 | |
| | 4th | 4th | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| Suggested range for 3 consec. readings or note Permit/State requirements: | | +/- 0.2 | +/- 3% | -- | -- | +/- 10% | +/- 25 mV | Stabilize |

**Stabilization Data Fields are Optional** *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form*

## FIELD DATA

| SAMPLE DATE (MM DD YY) | pH (std) | CONDUCTANCE (umhos/cm @ 25°C) | TEMP. (°C) | TURBIDITY (ntu) | DO (mg/L-ppm) | eH/ORP (mV) | Other: ____ Units ____ |
|---|---|---|---|---|---|---|---|
| 10/14/25 | 6.77 | 1139 | 11.5 | 0.0 | 0.5 | 405 | |

**Final Field Readings are required** *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

**Sample Appearance:** Clear Odor: None Color: None Other: ____

**Weather Conditions** (required daily, or as conditions change): Direction/Speed: E@11 Outlook: Overcast/Light rain Precipitation (Y) or N

**Specific Comments (including purge/well volume calculations if required):**

## FIELD COMMENTS

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

| Date | Name | Signature | Company |
|---|---|---|---|
| 10/14/25 | Dylon Schreckenberg | | MVTL |

**DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client**

ORIGINAL COPY

L9058099

GROUNDWATER SAMPLING AND/OR
GROUNDWATER ELEVATION MEASUREMENT

Site Name Dickinson Co. SLF Permit No. _____

Monitoring Well/Piezometer No. MW-38A Upgradient _____
Downgradient _____

Name of person sampling Dylan Schroedenberg

A. MONITORING WELL/PIEZOMETER CONDITIONS

Well/Piezometer Properly Capped YES Standing Water of Litter? No
If no, explain _____ If yes, explain _____

B. GROUNDWATER ELEVATION MEASUREMENT (± 0.01 foot, MSL)

Elevation: Top of inner well casing NA Ground Elevation NA
Depth of Well 32.41 Inside casing diameter ( in inches ) 2
Equipment Used EI Water Level Indicator

Groundwater Level ( ± 0.01 foot below top of inner casing, MSL) :

| | Date/Time | Depth to Groundwater | Groundwater Elevation |
|---|---|---|---|
| Before Purging | 20cT25/1147 | 16.71 | NA |
| * After Purging | 1/1208 | 1 | 1 |
| * Before Sampling | 1/1208 | 1 | 1 |

C. WELL PURGING

Quantity of Water Removed from Well ( gallons ) 8.4
No. of Well Volumes ( based on current water level ) 3.0
Was well pumped / bailed dry? No

Equipment used:
Bailer type _____ Dedicated Bailer? _____
Pump type QED Bladder Dedicated Pump? Yes
If not dedicated, method of cleaning _____

*D. FIELD MEASUREMENT

Weather Conditions SI, Cell, Overcast, Light rain
Field Measurements ( after stabilization ):
Temperature 11.5 Units °C
Equipment Used YSI 6820 Multi Parameter Meter
pH 6.77
Equipment Used YSI 6820 Multi Parameter Meter
Specific Cond. 1139
Equipment Used YSI 6820 Multi Parameter Meter

Comments _____

# FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: Dickinson STF

Site No.: | | | | |

Sample Point: MW-37A (Sample ID)

**This Waste Management Field Information Form is Required**
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID: L1909099

## PURGE INFO

| PURGE DATE (MM DD YY) | PURGE TIME (2400 Hr Clock) | ELAPSED HRS (hrs:min) | WATER VOL IN CASING (Gallons) | ACTUAL VOL PURGED (Gallons) | WELL VOLs PURGED |
|---|---|---|---|---|---|
| 10 14 25 | 11:20 | :15 | 25.5 | 7.5 | 3.0 |

*Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.*

## PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment … Dedicated: (Y) or N

Purging Device: C — Sampling Device: C

A- Submersible Pump; B-Peristaltic Pump; C-QED Bladder Pump; D-Bailer; E-Piston Pump; F-Dipper/Bottle

X-Other:

Filter Device: Y or (N) — 0.45 µ or ____ µ (circle or fill in)

Filter Type: A-In-line Disposable; B-Pressure; C-Vacuum; X-Other ____

Sample Tube Type: A-Teflon; B-Stainless Steel; C-PVC; D-Polypropylene; X-Other: ____

## WELL DATA

| Well Elevation (at TOC) | Depth to Water (DTW) (from TOC) | Groundwater Elevation (site datum, from TOC) |
|---|---|---|
| NA (ft/msl) | 21.55 (ft) | NA (ft/msl) |

| Total Well Depth (from TOC) | Stick Up (from ground elevation) | Casing ID | Casing Material |
|---|---|---|---|
| 36.65 (ft) | (ft) | 2 (in) | |

*Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.*

## STABILIZATION DATA (Optional)

| Sample Time (2400 Hr Clock) | Rate/Unit | pH (std) | Conductance (SC/EC) (µmhos/cm @ 25 °C) | Temp. (°C) | Turbidity (ntu) | D.O. (mg/L - ppm) | eH/ORP (mV) | DTW (ft) |
|---|---|---|---|---|---|---|---|---|
| 11:25 | 2.5 1st | 6.42 1st | 3356 1st | 10.7 | 22 | .06 | -210 | |
| 11:30 | 5.0 2nd | 6.45 2nd | 3397 2nd | 10.7 | 30 | .05 | -291 | |
| 11:35 | 7.5 3rd | 6.46 3rd | 3413 3rd | 10.7 | 32 | .05 | -310 | |
| | 4th | 4th | | | | | | |
| Suggested range for 3 consec. readings or note Permit/State requirements: | | +/- 0.2 | +/- 3% | -- | -- | +/- 10% | +/- 25 mV | Stabilize |

**Stabilization Data Fields are Optional** *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form*

## FIELD DATA

| SAMPLE DATE (MM DD YY) | pH (std) | CONDUCTANCE (umhos/cm @ 25°C) | TEMP. (°C) | TURBIDITY (ntu) | DO (mg/L-ppm) | eH/ORP (mV) | Other: Units |
|---|---|---|---|---|---|---|---|
| 10 14 25 | 6.46 | 3413 | 10.7 | 32 | .05 | -310 | |

**Final Field Readings are required** *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

## FIELD COMMENTS

**Sample Appearance:** Clear — Odor: None — Color: None — Other: —

**Weather Conditions** (required daily, or as conditions change): Direction/Speed: EE 11 — Outlook: Overcast/Light rain — Precipitation: (Y) or N

**Specific Comments (including purge/well volume calculations if required):**

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

| Date | Name | Signature | Company |
|---|---|---|---|
| 10/14/25 | Dylan Schreckenberg | | AVTL |

**DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client**

ORIGINAL COPY

L1908099

# GROUNDWATER SAMPLING AND/OR GROUNDWATER ELEVATION MEASUREMENT

Site Name Dickinson Co. SLF Permit No. _____

Monitoring Well/Piezometer No. MW-37A Upgradient _____
Downgradient _____

Name of person sampling Dylan Schreckenberg

A. MONITORING WELL/PIEZOMETER CONDITIONS

Well/Piezometer Properly Capped Yes Standing Water of Litter? No
If no, explain _____ If yes, explain _____

B. GROUNDWATER ELEVATION MEASUREMENT (± 0.01 foot, MSL)

Elevation: Top of inner well casing NA Ground Elevation NA
Depth of Well 36.65 Inside casing diameter ( in inches ) 2
Equipment Used EI Water Level Indicator

Groundwater Level ( ± 0.01 foot below top of inner casing, MSL) :

| | Date/Time | Depth to Groundwater | Groundwater Elevation |
|---|---|---|---|
| Before Purging | 14Oct18 / 1120 | 21.55 | NA |
| * After Purging | I / 1135 | I | I |
| * Before Sampling | I / 1135 | I | I |

C. WELL PURGING

Quantity of Water Removed from Well ( gallons ) 7.5
No. of Well Volumes ( based on current water level ) 3
Was well pumped / bailed dry? No

Equipment used:
Bailer type _____ Dedicated Bailer? _____
Pump type ~~QED Bladder~~ Dedicated Pump? Yes
If not dedicated, method of cleaning _____

*D. FIELD MEASUREMENT

Weather Conditions 51° F @ 11 Overcast, Light rain
Field Measurements ( after stabilization ):
Temperature 10.7 Units °C
Equipment Used YSI 6820 Multi Parameter Meter
pH 6.46
Equipment Used YSI 6820 Multi Parameter Meter
Specific Cond. 3413
Equipment Used YSI 6820 Multi Parameter Meter

Comments _____

# FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: Dickinson

Site No.: ~~16~~

Sample Point: MW-34A (Sample ID)

**This Waste Management Field Information Form is Required**
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID: L9108099

## PURGE INFO

| PURGE DATE (MM DD YY) | PURGE TIME (2400 Hr Clock) | ELAPSED HRS (hrs:min) | WATER VOL IN CASING (Gallons) | ACTUAL VOL PURGED (Gallons) | WELL VOLs PURGED |
|---|---|---|---|---|---|
| 10/14/25 | 12:20 | | | | |

*Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.*

## PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment ... Dedicated: (Y) or N

Purging Device: C

Sampling Device: C

A- Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

X-Other:

Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)

Filter Type: A-In-line Disposable, B-Pressure, C-Vacuum, X-Other ____

Sample Tube Type: A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other: ____

## WELL DATA

Well Elevation (at TOC): ____ (ft/msl)

Depth to Water (DTW) (from TOC): 21.62 (ft)

Groundwater Elevation (site datum, from TOC): ____ (ft/msl)

Total Well Depth (from TOC): 28.89 (ft)

Stick Up (from ground elevation): ____ (ft)

Casing ID: 2 (in)

Casing Material: PVC

*Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.*

## STABILIZATION DATA (Optional)

| Sample Time (2400 Hr Clock) | Rate/Unit | pH (std) | Conductance (SC/EC) (µmhos/cm @ 25 °C) | Temp. (°C) | Turbidity (ntu) | D.O. (mg/L - ppm) | eH/ORP (mV) | DTW (ft) |
|---|---|---|---|---|---|---|---|---|
| | | 1st | 1st | | | | | |
| | | 2nd | 2nd | | | | | |
| | | 3rd | 3rd | | | | | |
| | | 4th | 4th | | | | | |
| Suggested range for 3 consec. readings or note Permit/State requirements: | | +/- 0.2 | +/- 3% | -- | -- | +/- 10% | +/- 25 mV | Stabilize |

**Stabilization Data Fields are Optional** *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form*

## FIELD DATA

| SAMPLE DATE (MM DD YY) | pH (std) | CONDUCTANCE (umhos/cm @ 25°C) | TEMP. (°C) | TURBIDITY (ntu) | DO (mg/L-ppm) | eH/ORP (mV) | Other: ____ Units ____ |
|---|---|---|---|---|---|---|---|
| 10/14/25 | | | | | | | |

**Final Field Readings are required** *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

## FIELD COMMENTS

**Sample Appearance:** ____ Odor: ____ Color: ____ Other: ____

**Weather Conditions** (required daily, or as conditions change): Direction/Speed: 11 E Outlook: 51 Rain Precipitation: (Y) or N

**Specific Comments (including purge/well volume calculations if required):**

X Water level only

X Unsafe access for purging equipment

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

| Date | Name | Signature | Company |
|---|---|---|---|
| 10/14/25 | Zack Helget | Zack Helget | MVTL |

**DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client**

ORIGINAL COPY

GROUNDWATER SAMPLING AND/OR
GROUNDWATER ELEVATION MEASUREMENT

L1905099

Site Name Dickinson Co. SLF Permit No. _____

Monitoring Well/Piezometer No. MW-34A Upgradient _____
Downgradient _____

Name of person sampling DF/ZH

A. MONITORING WELL/PIEZOMETER CONDITIONS

Well/Piezometer Properly Capped No Standing Water of Litter? _____
If no, explain Cap broken by lock If yes, explain _____

B. GROUNDWATER ELEVATION MEASUREMENT (± 0.01 foot, MSL)

Elevation: Top of inner well casing NA Ground Elevation _____
Depth of Well 28.89 Inside casing diameter ( in inches ) 2"
Equipment Used EI Water Level Indicator

Groundwater Level ( ± 0.01 foot below top of inner casing, MSL) :

| | Date/Time | Depth to Groundwater | Groundwater Elevation |
|---|---|---|---|
| Before Purging | 10.14.25 1220 | 21.62 | |
| * After Purging | — | — | |
| * Before Sampling | — | — | |

C. WELL PURGING

Quantity of Water Removed from Well ( gallons ) —
No. of Well Volumes ( based on current water level ) —
Was well pumped / bailed dry? —

Equipment used:
Bailer type _____ Dedicated Bailer? _____
Pump type QED Bladder Dedicated Pump? Yes
If not dedicated, method of cleaning _____

*D. FIELD MEASUREMENT

Weather Conditions 51 / 11 E / Rain
Field Measurements ( after stabilization ):
Temperature — Units —
Equipment Used YSI 6820 Multi Parameter Meter
pH —
Equipment Used YSI 6820 Multi Parameter Meter
Specific Cond. —
Equipment Used YSI 6820 Multi Parameter Meter

Comments Water Level Only, Unsafe access for purging equipment

NOTE: Attach Laboratory Report and 8-12" x 11" site plan showing locations of all surface and groundwater monitoring points. One map per sampling round.

*Omit if only measuring groundwater elevations

# FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: Dickinson CO. SLF

Site No.:

Sample Point: MW23A (Sample ID)

**This Waste Management Field Information Form is Required**
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID: 4908099

## PURGE INFO

| PURGE DATE (MM DD YY) | PURGE TIME (2400 Hr Clock) | ELAPSED HRS (hrs:min) | WATER VOL IN CASING (Gallons) | ACTUAL VOL PURGED (Gallons) | WELL VOLs PURGED |
|---|---|---|---|---|---|
| 10 14 25 | 10:55 | :09 | 1.7 | 1.8 | 3.0 |

*Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.*

## PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment … Dedicated: (Y) or N

Purging Device: C

Sampling Device: C

A- Submersible Pump; B-Peristaltic Pump; C-QED Bladder Pump; D-Bailer; E-Piston Pump; F-Dipper/Bottle

X-Other:

Filter Device: Y or (N) 0.45 µ or — µ (circle or fill in)

Filter Type: —

A-In-line Disposable; B-Pressure; C-Vacuum; X-Other —

Sample Tube Type: —

A-Teflon; B-Stainless Steel; C-PVC; D-Polypropylene; X-Other: —

## WELL DATA

Well Elevation (at TOC): 1509.86 (ft/msl)

Depth to Water (DTW) (from TOC): 14.04 (ft)

Groundwater Elevation (site datum, from TOC): NMA (1408.29) ~~1487.69~~ 1495.82 (ft/msl)

Total Well Depth (from TOC): 24.28 (ft)

Stick Up (from ground elevation): — (ft)

Casing ID: 2" (in)

Casing Material: PVC

*Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.*

## STABILIZATION DATA (Optional)

(3)

| Sample Time (2400 Hr Clock) | Rate/Unit | pH (std) | Conductance (SC/EC) (µmhos/cm @ 25 °C) | Temp. (°C) | Turbidity (ntu) | D.O. (mg/L - ppm) | eH/ORP (mV) | DTW (ft) |
|---|---|---|---|---|---|---|---|---|
| 10:58 | ~~30.6~~ | 6.61 (1st) | 992 (1st) | 15.8 (1st) | 0.0 (1st) | 0.4 (1st) | -63.5 (1st) | 14.7 (1st) |
| 11:01 | ~~8~~ | 6.62 (2nd) | 991 (2nd) | 15.2 (2nd) | 0.0 (2nd) | 0.4 (2nd) | -107.0 (2nd) | 15.6 (2nd) |
| 11:04 | ~~8~~ | 6.61 (3rd) | 991 (3rd) | 15.3 (3rd) | 0.0 (3rd) | 0.4 (3rd) | -104.0 (3rd) | 16.5 (3rd) |
| | | (4th) | (4th) | (4th) | (4th) | (4th) | (4th) | (4th) |
| Suggested range for 3 consec. readings or note Permit/State requirements: | | +/- 0.2 | +/- 3% | -- | -- | +/- 10% | +/- 25 mV | Stabilize |

**Stabilization Data Fields are Optional** *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form*

## FIELD DATA

| SAMPLE DATE (MM DD YY) | pH (std) | CONDUCTANCE (umhos/cm @ 25°C) | TEMP. (°C) | TURBIDITY (ntu) | DO (mg/L-ppm) | eH/ORP (mV) | Other: Units |
|---|---|---|---|---|---|---|---|
| 10 14 25 | 6.61 | 991 | 15.3 | 0.0 | 0.4 | -104.0 | — |

**Final Field Readings are required** *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

**Sample Appearance:** clear Odor: none Color: none Other: none

**Weather Conditions** (required daily, or as conditions change): Direction/Speed: East/11 Outlook: 51°/Rain Precipitation: (Y) or N

**Specific Comments (including purge/well volume calculations if required):**

## FIELD COMMENTS

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

| Date | Name | Signature | Company |
|---|---|---|---|
| 10/14/25 | NM | [signature] | MVTL |

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client

ORIGINAL COPY

GROUNDWATER SAMPLING AND/OR
GROUNDWATER ELEVATION MEASUREMENT

L1908099

Site Name Dickinson Co. SLF Permit No. _____

Monitoring Well/Piezometer No. MW-23A Upgradient _____
Downgradient _____

Name of person sampling NM

A. MONITORING WELL/PIEZOMETER CONDITIONS

Well/Piezometer Properly Capped YES Standing Water of Litter? _____
If no, explain _____ If yes, explain _____

B. GROUNDWATER ELEVATION MEASUREMENT (± 0.01 foot, MSL)

Elevation: Top of inner well casing 1509.86 Ground Elevation 1495.82
Depth of Well 24.22 Inside casing diameter ( in inches ) 2"
Equipment Used EI Water Level Indicator

Groundwater Level ( ± 0.01 foot below top of inner casing, MSL) :

| | Date/Time | Depth to Groundwater | Groundwater Elevation |
|---|---|---|---|
| Before Purging | 14 Oct 25 \| 1058 | 14.7 | 1495.16 |
| * After Purging | \| 1101 | 15.6 | 1494.26 |
| * Before Sampling | \| 1104 | 16.5 | 1493.36 |

C. WELL PURGING

Quantity of Water Removed from Well ( gallons ) 5.4
No. of Well Volumes ( based on current water level ) 3
Was well pumped / bailed dry? NO

Equipment used:
Bailer type _____ Dedicated Bailer? _____
Pump type QED Bladder Dedicated Pump? Yes
If not dedicated, method of cleaning _____

*D. FIELD MEASUREMENT

Weather Conditions 51° Rain Wind: East 11
Field Measurements ( after stabilization ):
Temperature 15.3° C Units C
Equipment Used YSI 6820 Multi Parameter Meter
pH 6.60
Equipment Used YSI 6820 Multi Parameter Meter
Specific Cond. 991
Equipment Used YSI 6820 Multi Parameter Meter

Comments _____

NOTE: Attach Laboratory Report and 8-12" x 11" site plan showing locations of all surface and groundwater monitoring points. One map per sampling round.

*Omit if only measuring groundwater elevations

# FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: Dickinson Co. SLF

Site No.:

Sample Point: MW-21A (Sample ID)

**This Waste Management Field Information Form is Required**
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID: L1908099

## PURGE INFO

| PURGE DATE (MM DD YY) | PURGE TIME (2400 Hr Clock) | ELAPSED HRS (hrs:min) | WATER VOL IN CASING (Gallons) | ACTUAL VOL PURGED (Gallons) | WELL VOLs PURGED |
|---|---|---|---|---|---|
| 10/14/25 | 1135 | :15 | 40 | 40 | 3.0 |

*Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.*

## PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment ... Dedicated: (Y) or N

Purging Device: C

Sampling Device: C

A- Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

X-Other:

Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)

Filter Type: /

A-In-line Disposable, B-Pressure, C-Vacuum, X-Other /

Sample Tube Type: /

A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other: /

## WELL DATA

| Well Elevation (at TOC) | Depth to Water (DTW) (from TOC) | Groundwater Elevation (site datum, from TOC) |
|---|---|---|
| 1499.88 (ft/msl) | 25.28 (ft) | 1474.60 (ft/msl) |

| Total Well Depth (from TOC) | Stick Up (from ground elevation) | Casing ID | Casing Material |
|---|---|---|---|
| 50.01 (ft) | ____ (ft) | 2" (in) | / |

*Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.*

## STABILIZATION DATA (Optional)

| Sample Time (2400 Hr Clock) | Rate/Unit | pH (std) | Conductance (SC/EC) (µmhos/cm @ 25 °C) | Temp. (°C) | Turbidity (ntu) | D.O. (mg/L - ppm) | eH/ORP (mV) | DTW (ft) |
|---|---|---|---|---|---|---|---|---|
| 1140 | 0.8 | 1st 6.96 | 1st 933 | 12.4° | 0.0 | 1.6 | 52.8 | 30.0 |
| 1145 | 0.8 | 2nd 6.96 | 2nd 933 | 12.4° | 0.0 | 1.5 | 53.4 | 35.0 |
| 1150 | 0.8 | 3rd 6.96 | 3rd 923 | 12.4° | 0.0 | 1.4 | 53.6 | 39.0 |
| | | 4th | 4th | | | | | |
| Suggested range for 3 consec. readings or note Permit/State requirements: | | +/- 0.2 | +/- 3% | -- | -- | +/- 10% | +/- 25 mV | Stabilize |

**Stabilization Data Fields are Optional** *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form*

## FIELD DATA

| SAMPLE DATE (MM DD YY) | pH (std) | CONDUCTANCE (umhos/cm @ 25°C) | TEMP. (°C) | TURBIDITY (ntu) | DO (mg/L-ppm) | eH/ORP (mV) | Other: Units |
|---|---|---|---|---|---|---|---|
| 10/14/25 | 6.96 | 923 | 12.4° | 0.0 | 1.4 | 53.6 | |

**Final Field Readings are required** *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

**Sample Appearance:** Clear Odor: None Color: None Other: None

**Weather Conditions** (required daily, or as conditions change): Direction/Speed: East 11 Outlook: 51°/Rain Precipitation: (Y) or N

**Specific Comments (including purge/well volume calculations if required):**

## FIELD COMMENTS

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

| Date | Name | Signature | Company |
|---|---|---|---|
| 10/14/25 | NM | [signature] | NVTL |

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client

ORIGINAL COPY

LP08099

# GROUNDWATER SAMPLING AND/OR GROUNDWATER ELEVATION MEASUREMENT

Site Name Dickinson Co. SLF Permit No. _____

Monitoring Well/Piezometer No. MW-21A Upgradient _____
Downgradient _____

Name of person sampling NM

A. MONITORING WELL/PIEZOMETER CONDITIONS

Well/Piezometer Properly Capped YES Standing Water of Litter? _____
If no, explain _____ If yes, explain _____

B. GROUNDWATER ELEVATION MEASUREMENT (± 0.01 foot, MSL)

Elevation: Top of inner well casing 1499.88 Ground Elevation 1474.60
Depth of Well 49.88 Inside casing diameter ( in inches ) 2"
Equipment Used EI Water Level Indicator

Groundwater Level ( ± 0.01 foot below top of inner casing, MSL) :

| | Date/Time | | Depth to Groundwater | Groundwater Elevation |
|---|---|---|---|---|
| Before Purging | 14 Oct 25 | 1140 | 30.0 | 469.88 |
| * After Purging | " | 1145 | 35.0 | 464.88 |
| * Before Sampling | " | 1150 | 39.0 | 460.88 |

C. WELL PURGING

Quantity of Water Removed from Well ( gallons ) 14.4
No. of Well Volumes ( based on current water level ) 3
Was well pumped / bailed dry? NO

Equipment used:
Bailer type _____ Dedicated Bailer? _____
Pump type QED Bladder Dedicated Pump? Yes
If not dedicated, method of cleaning _____

*D. FIELD MEASUREMENT

Weather Conditions 51° - Rain Wind: East 11
Field Measurements ( after stabilization ):
Temperature 12.4° Units _____
Equipment Used YSI 6820 Multi Parameter Meter
pH 6.96
Equipment Used YSI 6820 Multi Parameter Meter
Specific Cond. 923
Equipment Used YSI 6820 Multi Parameter Meter

Comments _____

NOTE: Attach Laboratory Report and 8-12" x 11" site plan showing locations of all surface and groundwater monitoring points. One map per sampling round.

*Omit if only measuring groundwater elevations

# FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: Dickinson

Site No.: ____ Sample Point: MW-19A (Sample ID)

**This Waste Management Field Information Form is Required**
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID: L1908099

## PURGE INFO

| PURGE DATE (MM DD YY) | PURGE TIME (2400 Hr Clock) | ELAPSED HRS (hrs:min) | WATER VOL IN CASING (Gallons) | ACTUAL VOL PURGED (Gallons) | WELL VOLs PURGED |
|---|---|---|---|---|---|
| 10 14 25 | 11:40 | :12 | 2.8 | 8.4 | 3.0 |

*Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.*

## PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment ... Dedicated: (Y) or N

Purging Device: C — A- Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device: C

X-Other:

Filter Device: Y or (N) — 0.45 µ or ____ µ (circle or fill in)

Filter Type: —

Sample Tube Type: D — A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

## WELL DATA

| Well Elevation (at TOC) | Depth to Water (DTW) (from TOC) | Groundwater Elevation (site datum, from TOC) |
|---|---|---|
| 1469.58 (ft/msl) | 5.76 (ft) | 1463.82 (ft/msl) |

Total Well Depth (from TOC): 22.70 (ft)

Stick Up (from ground elevation): — (ft)

Casing ID: 2 (in)

Casing Material: PVC

*Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.*

## STABILIZATION DATA (Optional)

| Sample Time (2400 Hr Clock) | Rate/Unit | pH (std) | Conductance (SC/EC) (µmhos/cm @ 25 °C) | Temp. (°C) | Turbidity (ntu) | D.O. (mg/L - ppm) | eH/ORP (mV) | DTW (ft) |
|---|---|---|---|---|---|---|---|---|
| 1144 | 0.7 1st | 6.85 1st | 1180 1st | 13.2 | 1.5 | 1.3 | 103.4 | |
| 1148 | 1 2nd | 6.84 2nd | 1181 2nd | 13.2 | 27.1 | 1.2 | 104.4 | |
| 1152 | 1 3rd | 6.83 3rd | 1183 3rd | 13.2 | 46.3 | 1.1 | 105.7 | |
| : | 4th | 4th | | | | | | |
| : | | | | | | | | |
| : | | | | | | | | |
| : | | | | | | | | |
| : | | | | | | | | |
| : | | | | | | | | |
| : | | | | | | | | |
| Suggested range for 3 consec. readings or note Permit/State requirements: | | +/- 0.2 | +/- 3% | -- | -- | +/- 10% | +/- 25 mV | Stabilize |

**Stabilization Data Fields are Optional** *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form*

## FIELD DATA

| SAMPLE DATE (MM DD YY) | pH (std) | CONDUCTANCE (umhos/cm @ 25°C) | TEMP. (°C) | TURBIDITY (ntu) | DO (mg/L-ppm) | eH/ORP (mV) | Other: Units |
|---|---|---|---|---|---|---|---|
| 10 14 25 | 6.83 | 1183 | 13.2 | 46.3 | 1.1 | 105.7 | — |

**Final Field Readings are required** *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

## FIELD COMMENTS

**Sample Appearance:** Clear — Odor: none — Color: none — Other: none

**Weather Conditions** (required daily, or as conditions change): Direction/Speed: 11 E — Outlook: 51 Rainy — Precipitation: Y or (N)

**Specific Comments (including purge/well volume calculations if required):**

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

| Date | Name | Signature | Company |
|---|---|---|---|
| 10/14/25 | Zack Helget | Zack Helget | MVTL |

**DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client**

ORIGINAL COPY

GROUNDWATER SAMPLING AND/OR
GROUNDWATER ELEVATION MEASUREMENT

L1908099

Site Name Dickinson Co. SLF Permit No. _____

Monitoring Well/Piezometer No. MW-19A Upgradient _____
Downgradient _____

Name of person sampling ZH / DF

A. MONITORING WELL/PIEZOMETER CONDITIONS

Well/Piezometer Properly Capped Yes Standing Water of Litter? _____
If no, explain _____ If yes, explain _____

B. GROUNDWATER ELEVATION MEASUREMENT (± 0.01 foot, MSL)

Elevation: Top of inner well casing 1469.58 Ground Elevation _____
Depth of Well 22.70 Inside casing diameter ( in inches ) 2"
Equipment Used EI Water Level Indicator

Groundwater Level ( ± 0.01 foot below top of inner casing, MSL) :

| | Date/Time | Depth to Groundwater | Groundwater Elevation |
|---|---|---|---|
| Before Purging | 10.14.25 1140 | 5.76 | |
| * After Purging | 1 1152 | 7.75 | |
| * Before Sampling | 1 1152 | 7.75 | |

C. WELL PURGING

Quantity of Water Removed from Well ( gallons ) 0.4
No. of Well Volumes ( based on current water level ) 3
Was well pumped / bailed dry? No

Equipment used:
Bailer type _____ Dedicated Bailer? _____
Pump type QED Bladder Dedicated Pump? Yes
If not dedicated, method of cleaning _____

*D. FIELD MEASUREMENT

Weather Conditions 51 11 E Rainy
Field Measurements ( after stabilization ):
Temperature 13.2 Units _____
Equipment Used YSI 6820 Multi Parameter Meter
pH 6.83
Equipment Used YSI 6820 Multi Parameter Meter
Specific Cond. 1183
Equipment Used YSI 6820 Multi Parameter Meter

Comments _____

NOTE: Attach Laboratory Report and 8-12" x 11" site plan showing locations of all surface and groundwater monitoring points. One map per sampling round.

*Omit if only measuring groundwater elevations

# FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: Dickinson
Site No.:
Sample Point: MW-13A
Sample ID

**This Waste Management Field Information Form is Required**
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID: L1905099

## PURGE INFO

| PURGE DATE (MM DD YY) | PURGE TIME (2400 Hr Clock) | ELAPSED HRS (hrs:min) | WATER VOL IN CASING (Gallons) | ACTUAL VOL PURGED (Gallons) | WELL VOLs PURGED |
|---|---|---|---|---|---|
| 101425 | 1015 | :09 | 2.2 | 2.4 | 3.0 |

*Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.*

## PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment … Dedicated: (Y) or N

Purging Device: Y
Sampling Device: Y
X-Other:

A- Submersible Pump
B-Peristaltic Pump
C-QED Bladder Pump
D-Bailer
E-Piston Pump
F-Dipper/Bottle

Filter Device: Y or (N) 0.45 µ or — µ (circle or fill in)
Filter Type: —
A-In-line Disposable B-Pressure C-Vacuum X-Other —
Sample Tube Type: —
A-Teflon B-Stainless Steel C-PVC D-Polypropylene X-Other: —

## WELL DATA

Well Elevation (at TOC): 150.86 (ft/msl)
Depth to Water (DTW) (from TOC): ~~147.58~~ 20.87 (ft) NMA
Groundwater Elevation (site datum, from TOC): 147.58 (ft/msl)
Total Well Depth (from TOC): 33.99 (ft)
Stick Up (from ground elevation): — (ft)
Casing ID: 2" (in)
Casing Material: PVC

*Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.*

## STABILIZATION DATA (Optional)

| Sample Time (2400 Hr Clock) | Rate/Unit | pH (std) | Conductance (SC/EC) (µmhos/cm @ 25 °C) | Temp. (°C) | Turbidity (ntu) | D.O. (mg/L - ppm) | eH/ORP (mV) | DTW (ft) |
|---|---|---|---|---|---|---|---|---|
| 1018 | .8 1st | 6.57 1st | 954 1st | 11.6 1st | 0.0 1st | 0.6 1st | 210 1st | 20.9 1st |
| 1021 | .8 2nd | 6.59 2nd | 948 2nd | 11.5° 2nd | 0.0 2nd | 0.5 2nd | 120 2nd | 1 2nd |
| 1024 | .8 3rd | 6.60 3rd | 947 3rd | 11.2° 3rd | 0.0 3rd | 0.5 3rd | 114 3rd | 1 3rd |
| | 4th | 4th | 4th | | | | | |
| Suggested range for 3 consec. readings or note Permit/State requirements: | | +/- 0.2 | +/- 3% | – | – | +/- 10% | +/- 25 mV | Stabilize |

**Stabilization Data Fields are Optional** *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form*

## FIELD DATA

| SAMPLE DATE (MM DD YY) | pH (std) | CONDUCTANCE (umhos/cm @ 25°C) | TEMP. (°C) | TURBIDITY (ntu) | DO (mg/L-ppm) | eH/ORP (mV) | Other: Units |
|---|---|---|---|---|---|---|---|
| 101425 | 660 | 947 | 11.2° | 0.0 | 0.5 | 114 | ~~Z~~ |

**Final Field Readings are required** *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

## FIELD COMMENTS

**Sample Appearance:** Clear
Odor: None
Color: None
Other: None
**Weather Conditions** (required daily, or as conditions change):
Direction/Speed: East/12
Outlook: 50° light rain
Precipitation: (Y) or N
**Specific Comments (including purge/well volume calculations if required):**

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

| Date | Name | Signature | Company |
|---|---|---|---|
| 10/14/25 | NM | | NVTL |

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client

ORIGINAL COPY

L1908099

GROUNDWATER SAMPLING AND/OR
GROUNDWATER ELEVATION MEASUREMENT

Site Name Dickinson Co. SLF Permit No. _____

Monitoring Well/Piezometer No. MW-13A Upgradient _____
Downgradient _____

Name of person sampling NM

A. MONITORING WELL/PIEZOMETER CONDITIONS

Well/Piezometer Properly Capped Yes Standing Water of Litter? _____
If no, explain _____ If yes, explain _____

B. GROUNDWATER ELEVATION MEASUREMENT (± 0.01 foot, MSL)

Elevation: Top of inner well casing 1509.86 Ground Elevation _____
Depth of Well 33.99 Inside casing diameter ( in inches ) 2"
Equipment Used EI Water Level Indicator

Groundwater Level ( ± 0.01 foot below top of inner casing, MSL) :

| | Date/Time | Depth to Groundwater | Groundwater Elevation |
|---|---|---|---|
| Before Purging | 14Oct25 | 20.9 | 1475.87 |
| * After Purging | | 20.9 | 1475.87 |
| * Before Sampling | | 20.9 | 1475.87 |

C. WELL PURGING

Quantity of Water Removed from Well ( gallons ) 7.2
No. of Well Volumes ( based on current water level ) 3
Was well pumped / bailed dry? NO

Equipment used:
Bailer type — Dedicated Bailer? —
Pump type QED Bladder Dedicated Pump? Yes
If not dedicated, method of cleaning _____

*D. FIELD MEASUREMENT

Weather Conditions 50° / light Rain Wind - East / 12
Field Measurements ( after stabilization):
Temperature 11.2°C Units _____
Equipment Used YSI 6820 Multi Parameter Meter
pH 6.60
Equipment Used YSI 6820 Multi Parameter Meter
Specific Cond. 947
Equipment Used YSI 6820 Multi Parameter Meter

Comments _____

NOTE: Attach Laboratory Report and 8-12" x 11" site plan showing locations of all surface and groundwater monitoring points. One map per sampling round.

*Omit if only measuring groundwater elevations

# FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: Dickinson SLF

Site No.:

Sample Point: MW-12A (Sample ID)

**This Waste Management Field Information Form is Required**
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID: LA08099

## PURGE INFO

| PURGE DATE (MM DD YY) | PURGE TIME (2400 Hr Clock) | ELAPSED HRS (hrs:min) | WATER VOL IN CASING (Gallons) | ACTUAL VOL PURGED (Gallons) | WELL VOLs PURGED |
|---|---|---|---|---|---|
| 10/14/25 | 10:50 | :21 | 26.9 | 8.4 | 3.0 |

*Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.*

## PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment … Dedicated: (Y) or N

Filter Device: Y or (N) 0.45 µ or _____ µ (circle or fill in)

Purging Device: C

Sampling Device: C

A- Submersible Pump; B-Peristaltic Pump; C-QED Bladder Pump; D-Bailer; E-Piston Pump; F-Dipper/Bottle

Filter Type: A-In-line Disposable; B-Pressure; C-Vacuum; X-Other _____

X-Other:

Sample Tube Type: A-Teflon; B-Stainless Steel; C-PVC; D-Polypropylene; X-Other: _____

## WELL DATA

Well Elevation (at TOC): 1536.52 (ft/msl)

Depth to Water (DTW) (from TOC): 18.44 (ft)

Groundwater Elevation (site datum, from TOC): 1518.08 (ft/msl)

Total Well Depth (from TOC): 34.10 (ft)

Stick Up (from ground elevation): + (ft)

Casing ID: 2 (in)

Casing Material:

*Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.*

## STABILIZATION DATA (Optional)

| | Sample Time (2400 Hr Clock) | Rate/Unit | pH (std) | Conductance (SC/EC) (µmhos/cm @ 25 °C) | Temp. (°C) | Turbidity (ntu) | D.O. (mg/L - ppm) | eH/ORP (mV) | DTW (ft) |
|---|---|---|---|---|---|---|---|---|---|
| 1st | 10:57 | 2.8 | 6.41 | 1678 | 11.1 | 0.0 | 0.8 | -65.5 | |
| 2nd | 11:04 | 5.6 | 6.42 | 1679 | 11.0 | 0.0 | 0.7 | -51.2 | |
| 3rd | 11:11 | 8.4 | 6.43 | 1678 | 10.9 | 0.0 | 0.7 | -45.0 | |
| 4th | | | | | | | | | |
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| | | | | | | | | | |
| Suggested range for 3 consec. readings or note Permit/State requirements: | | | +/- 0.2 | +/- 3% | – | – | +/- 10% | +/- 25 mV | Stabilize |

**Stabilization Data Fields are Optional** *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form*

## FIELD DATA

| SAMPLE DATE (MM DD YY) | pH (std) | CONDUCTANCE (umhos/cm @ 25°C) | TEMP. (°C) | TURBIDITY (ntu) | DO (mg/L-ppm) | eH/ORP (mV) | Other: Units |
|---|---|---|---|---|---|---|---|
| 10/14/25 | 6.43 | 1678 | 10.9 | 0.0 | 0.7 | -45.0 | |

**Final Field Readings are required** *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

## FIELD COMMENTS

**Sample Appearance:** Clear Odor: None Color: None Other: –

**Weather Conditions** (required daily, or as conditions change): Direction/Speed: E@11 Outlook: Overcast Precipitation: Y or (N)

**Specific Comments (including purge/well volume calculations if required):**

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

| Date | Name | Signature | Company |
|---|---|---|---|
| 10/14/25 | Dylan Schuelenberg | | MVTL |

**DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client**

ORIGINAL COPY

L1908099

# GROUNDWATER SAMPLING AND/OR GROUNDWATER ELEVATION MEASUREMENT

Site Name Dickinson Co. SLF Permit No. _____

Monitoring Well/Piezometer No. MW-12A Upgradient _____ Downgradient _____

Name of person sampling Dylan Schreckenberg

A. MONITORING WELL/PIEZOMETER CONDITIONS

Well/Piezometer Properly Capped Yes Standing Water of Litter? No
If no, explain _____ If yes, explain _____

B. GROUNDWATER ELEVATION MEASUREMENT (± 0.01 foot, MSL)

Elevation: Top of inner well casing 1536.52 Ground Elevation 1518.08
Depth of Well 34.1 Inside casing diameter ( in inches ) 2"
Equipment Used EI Water Level Indicator

Groundwater Level ( ± 0.01 foot below top of inner casing, MSL) :

| | Date/Time | Depth to Groundwater | Groundwater Elevation |
|---|---|---|---|
| Before Purging | 14Oct25 / 1050 | 18.44 | 1518.08 |
| * After Purging | 1 / 1117 | 1 | 1 |
| * Before Sampling | 1 / 1117 | 1 | 1 |

C. WELL PURGING

Quantity of Water Removed from Well ( gallons ) 8.4
No. of Well Volumes ( based on current water level ) 3
Was well pumped / bailed dry? No

Equipment used:
Bailer type _____ Dedicated Bailer? _____
Pump type QED Bladder Dedicated Pump? Yes
If not dedicated, method of cleaning _____

*D. FIELD MEASUREMENT

Weather Conditions 51° EE11 Overcast
Field Measurements ( after stabilization ):
Temperature 10.9 Units °C
Equipment Used YSI 6820 Multi Parameter Meter
pH 6.43
Equipment Used YSI 6820 Multi Parameter Meter
Specific Cond. 1678
Equipment Used YSI 6820 Multi Parameter Meter

Comments _____

NOTE: Attach Laboratory Report and 8-12" x 11" site plan showing locations of all surface and groundwater monitoring points. One map per sampling round.

*Omit if only measuring groundwater elevations

# FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: Dickinson SLF

Site No.:

Sample Point: MW-111A (Sample ID)

**This Waste Management Field Information Form is Required**
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID: 4908099

## PURGE INFO

| PURGE DATE (MM DD YY) | PURGE TIME (2400 Hr Clock) | ELAPSED HRS (hrs:min) | WATER VOL IN CASING (Gallons) | ACTUAL VOL PURGED (Gallons) | WELL VOLs PURGED |
|---|---|---|---|---|---|
| 10 14 25 | 10:20 | 1:15 | 21 | 75 | 30 |

*Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.*

## PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment … Dedicated: (Y) or N

Purging Device: C

Sampling Device: C

A- Submersible Pump; B-Peristaltic Pump; C-QED Bladder Pump; D-Bailer; E-Piston Pump; F-Dipper/Bottle

X-Other:

Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)

Filter Type: A-In-line Disposable; B-Pressure; C-Vacuum; X-Other

Sample Tube Type: A-Teflon; B-Stainless Steel; C-PVC; D-Polypropylene; X-Other:

## WELL DATA

Well Elevation (at TOC): 1532.39 (ft/msl)

Depth to Water (DTW) (from TOC): 185.1 (ft)

Groundwater Elevation (site datum, from TOC): 1513.78 (ft/msl)

Total Well Depth (from TOC): 312.2 (ft)

Stick Up (from ground elevation): ____ (ft)

Casing ID: 2 (in)

Casing Material: ____

*Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.*

## STABILIZATION DATA (Optional)

| | Sample Time (2400 Hr Clock) | Rate/Unit | pH (std) | Conductance (SC/EC) (µmhos/cm @ 25 °C) | Temp. (°C) | Turbidity (ntu) | D.O. (mg/L - ppm) | eH/ORP (mV) | DTW (ft) |
|---|---|---|---|---|---|---|---|---|---|
| 1st | 10:25 | 2.5 | 6.99 | 953 | 9.8 | 00 | 5.1 | 176.3 | |
| 2nd | 10:30 | 5.0 | 7.01 | 962 | 9.8 | 00 | 4.9 | 174.7 | |
| 3rd | 10:35 | 7.5 | 7.02 | 971 | 9.7 | 00 | 4.7 | 172.9 | |
| 4th | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| Suggested range for 3 consec. readings or note Permit/State requirements: | | | +/- 0.2 | +/- 3% | -- | -- | +/- 10% | +/- 25 mV | Stabilize |

**Stabilization Data Fields are Optional** *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form*

## FIELD DATA

| SAMPLE DATE (MM DD YY) | pH (std) | CONDUCTANCE (umhos/cm @ 25°C) | TEMP. (°C) | TURBIDITY (ntu) | DO (mg/L-ppm) | eH/ORP (mV) | Other: Units |
|---|---|---|---|---|---|---|---|
| 10 14 25 | 7.02 | 971 | 9.7 | 00 | 4.7 | 172.9 | |

**Final Field Readings are required** *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

**Sample Appearance:** Clear Odor: None Color: None Other:

**Weather Conditions** (required daily, or as conditions change): Direction/Speed: E@11 Outlook: Overcast Precipitation: Y or (N)

**Specific Comments (including purge/well volume calculations if required):**

## FIELD COMMENTS

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

| Date | Name | Signature | Company |
|---|---|---|---|
| 10/14/25 | Dylan Schreckenberg | | MVTL |

**DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client**

ORIGINAL COPY

GROUNDWATER SAMPLING AND/OR
GROUNDWATER ELEVATION MEASUREMENT

L1908099

Site Name Dickinson Co. SLF Permit No. _____

Monitoring Well/Piezometer No. MW-11A Upgradient _____
Downgradient _____

Name of person sampling Dylan Schoeckenberg

A. MONITORING WELL/PIEZOMETER CONDITIONS

Well/Piezometer Properly Capped Yes Standing Water of Litter? No
If no, explain _____ If yes, explain _____

B. GROUNDWATER ELEVATION MEASUREMENT (± 0.01 foot, MSL)

Elevation: Top of inner well casing 1532.39 Ground Elevation 1513.78
Depth of Well 31.22 Inside casing diameter ( in inches ) 2"
Equipment Used EI Water Level Indicator

Groundwater Level ( ± 0.01 foot below top of inner casing, MSL) :

| | Date/Time | Depth to Groundwater | Groundwater Elevation |
|---|---|---|---|
| Before Purging | 10/25/1020 | 18.61 | 1513.78 |
| * After Purging | / 1035 | / | / |
| * Before Sampling | / 1035 | | |

C. WELL PURGING

Quantity of Water Removed from Well ( gallons ) 7.5
No. of Well Volumes ( based on current water level ) 3
Was well pumped / bailed dry? No

Equipment used:
Bailer type _____ Dedicated Bailer? _____
Pump type QED Bladder Dedicated Pump? Yes
If not dedicated, method of cleaning _____

*D. FIELD MEASUREMENT

Weather Conditions 51° Cell Overcast
Field Measurements ( after stabilization ):
Temperature 9.7 Units °C
Equipment Used YSI 6820 Multi Parameter Meter
pH 7.02
Equipment Used YSI 6820 Multi Parameter Meter
Specific Cond. 971
Equipment Used YSI 6820 Multi Parameter Meter

Comments _____

NOTE: Attach Laboratory Report and 8-12" x 11" site plan showing locations of all surface and groundwater monitoring points. One map per sampling round.

*Omit if only measuring groundwater elevations

# FIELD INFORMATION FORM

**Surface Water, Stormwater and Leachate**

WASTE MANAGEMENT

Site Name: Dickinson Co. SLF

Sample I.D.: GW Holding Pond

Laboratory Use Only / Lab I.D.: L19080099

## Sampling Method & Equipment

Purge and Sample Equipment:

Sampling Method: D (D - Direct, I - Indirect, V - Visual)

Sampling Equipment: D (D - Dipper, T - Transfer Vessel, S - Sample Bottle, O - Other) Whale

Sample Type: Grab (Grab / Composite) (circle one)

## Field Measurements

| Sample Date MM/DD/YYYY | Sample Time 24 Hr. Clock | pH (std. Units) | CONDUCTIVITY (umhos/cm @ 25°C) | Temp °C | TURBIDITY (NTUs) | DO mg/L - ppm | eH/ORP (std. Units) |
|---|---|---|---|---|---|---|---|
| 10/14/2025 | 1225 | 7.27 | 1006 | 13.5° | 8.90 | 7.11 | 126.1 |

*Record final stabilized field readings.*

## Field Observations

Sample Appearance: Odor: earthy Color: tan Other: light sediment

Sheen Present [Y] or [N] Foam Present: [Y] or [N] Floating Solids: [Y] or [N]

Weather Conditions: (required daily, or as conditions change):

Direction/Speed: 50°F / East 13 Precipitation: [Y] or [N]

Specific Comments:

10/14/2025 NM MUTL

Date | Name | Signature | Company

# Minnesota Valley Testing Laboratories, Inc.

New Ulm, MN 56073 507 354 8517

L1908099

## Groundwater Level Measurements

Sampling Personnel: DF ZH

Site: Dickinson Co. SLF

Facility ID: NA

Date: 14OCT 25

| Well Number | MW-14A | MW-15A | MW-17A | | | | |
|---|---|---|---|---|---|---|---|
| Time | 1230 | 1235 | 1240 | | | | |
| Unique Station ID | NA | NA | NA | | | | |
| Well Casing Elevation | 1483.98 | 1476.03 | 1473.61 | | | | |
| Depth to Water | 8.85 | 10.53 | 11.37 | | | | |
| Static Elevation | 1475.13 | 1465.50 | 1462.24 | | | | |
| Previous Static | 1476.35 | 1467.96 | 1465.63 | | | | |
| Casing Diameter | 2" | 2" | 2" | | | | |
| Well Depth | 21.73 | 26.88 | 21.87 | | | | |
| Well Volume | 2.10 | 2.67 | 1.71 | | | | |
| Well Locked | yes / no | yes / no | yes / no | yes / no | yes / no | yes / no | yes / no |
| Well Labeled | yes / no | yes / no | yes / no | yes / no | yes / no | yes / no | yes / no |
| Well Straight | yes / no | yes / no | yes / no | yes / no | yes / no | yes / no | yes / no |
| State Id Tag | yes / no | yes / no | yes / no | yes / no | yes / no | yes / no | yes / no |
| Protective Posts | yes / no | yes / no | yes / no | yes / no | yes / no | yes / no | yes / no |
| Grout Seal Intact | yes / no | yes / no | yes / no | yes / no | yes / no | yes / no | yes / no |
| Dedicated Equipment | yes / no | yes / no | yes / no | yes / no | yes / no | yes / no | yes / no |

| Well Number | | | | | | | |
|---|---|---|---|---|---|---|---|
| Time | | | | | | | |
| Unique Station ID | | | | | | | |
| Well Casing Elevation | | | | | | | |
| Depth to Water | | | | | | | |
| Static Elevation | | | | | | | |
| Previous Static | | | | | | | |
| Casing Diameter | | | | | | | |
| Well Depth | | | | | | | |
| Well Volume | | | | | | | |
| Well Locked | yes / no | yes / no | yes / no | yes / no | yes / no | yes / no | yes / no |
| Well Labeled | yes / no | yes / no | yes / no | yes / no | yes / no | yes / no | yes / no |
| Well Straight | yes / no | yes / no | yes / no | yes / no | yes / no | yes / no | yes / no |
| State Id Tag | yes / no | yes / no | yes / no | yes / no | yes / no | yes / no | yes / no |
| Protective Posts | yes / no | yes / no | yes / no | yes / no | yes / no | yes / no | yes / no |
| Grout Seal Intact | yes / no | yes / no | yes / no | yes / no | yes / no | yes / no | yes / no |
| Dedicated Equipment | yes / no | yes / no | yes / no | yes / no | yes / no | yes / no | yes / no |

## Multiple Parcel Form

L# LP058099

| Parcel Tracking Number | Infrared Thermometer ID | Temperature Reading (°C) | Correction Factor (°C) | Corrected Temperature (°C) | Custody Seal Intact |
|---|---|---|---|---|---|
| 4718 2724 9410 | TLA9 | 4.3 | ± 0 | 4.3 | (Yes) / No / Not Present |
| 4718 2724 9351 | TLA9 | 0.5 | ± 0 | 0.5 | (Yes) / No / Not Present |
| 4718 2724 9421 | TLA9 | 2.4 | ± 0 | 2.4 | (Yes) / No / Not Present |
| | | | | | Yes / No / Not Present |
| | | | | | Yes / No / Not Present |
| | | | | | Yes / No / Not Present |
| | | | | | Yes / No / Not Present |
| | | | | | Yes / No / Not Present |
| | | | | | Yes / No / Not Present |
| | | | | | Yes / No / Not Present |
| | | | | | Yes / No / Not Present |
| | | | | | Yes / No / Not Present |
| | | | | | Yes / No / Not Present |
| | | | | | Yes / No / Not Present |
| | | | | | Yes / No / Not Present |
| | | | | | Yes / No / Not Present |
| | | | | | Yes / No / Not Present |
| | | | | | Yes / No / Not Present |
| | | | | | Yes / No / Not Present |

E. Davis IT / Eli Dossett
Name

10-15-25
Date

LA9058099

GROUNDWATER SAMPLING AND/OR
GROUNDWATER ELEVATION MEASUREMENT

Site Name Dickinson Co. SLF Permit No. _____

Monitoring Well/Piezometer No. MW-40 Upgradient _____
Downgradient _____

Name of person sampling DF/ZH

A. MONITORING WELL/PIEZOMETER CONDITIONS

Well/Piezometer Properly Capped Yes Standing Water of Litter? _____
If no, explain _____ If yes, explain _____

B. GROUNDWATER ELEVATION MEASUREMENT (± 0.01 foot, MSL)

Elevation: Top of inner well casing NA Ground Elevation NA
Depth of Well 32.15 Inside casing diameter ( in inches ) 2
Equipment Used EI Water Level Indicator

Groundwater Level ( ± 0.01 foot below top of inner casing, MSL) :

| | Date/Time | Depth to Groundwater | Groundwater Elevation |
|---|---|---|---|
| Before Purging | 10.14.15 1110 | 18.14 | |
| * After Purging | 1 1122 | 20.30 | |
| * Before Sampling | 1 1122 | 20.30 | |

C. WELL PURGING

Quantity of Water Removed from Well ( gallons ) 7.2
No. of Well Volumes ( based on current water level ) 3.0
Was well pumped / bailed dry? No

Equipment used:
Bailer type _____ Dedicated Bailer? _____
Pump type QED Bladder Dedicated Pump? Yes
If not dedicated, ~~method of cleaning~~ _____

*D. FIELD MEASUREMENT

Weather Conditions 51 NE Rainy
Field Measurements ( after stabilization ):
Temperature 12.1 Units °C
Equipment Used YSI 6820 Multi Parameter Meter
pH 7.15
Equipment Used YSI 6820 Multi Parameter Meter
Specific Cond. 684
Equipment Used YSI 6820 Multi Parameter Meter

Comments _____

## 10/15 L1908099 WMDICIA

R5

**Time estimate:** oh **Time spent:** oh

**Members**

Hailey Robertson (responsible) CU Chad Upchurch

Due on *18 October 2025 8:00 AM* for target *Done*

- [x] Login Clarification needed
- [ ] Chain of custody is incomplete
- [ ] Custody Seal not intact
- [ ] Please specify Metals requested
- [ ] Please specify TCLP requested
- [ ] Received additional samples not listed on COC
- [ ] Sample IDs on containers do not match IDs on COC
- [ ] Client did not "X" analysis
- [ ] Chain of Custody is missing
- [ ] If no COC: Received by:_____
- [ ] If no COC: Date/Time:_____
- [ ] If no COC: Temp./Cont.Rec./pH:_____
- [ ] If no COC: Carrier:_____
- [ ] If no COC: Tracking #:_____
- [ ] Client informed by call
- [ ] Client informed by Email
- [ ] Client informed by Voicemail
- [ ] Date/Time:_____
- [ ] PM initials:_____
- [ ] Client Contact:_____

**Comments**

*Hailey Robertson* *15 October 2025 4:48 PM*

Did not received ID: MW-34A

*Chad Upchurch* *16 October 2025 9:19 AM*

MW-34 was not collected, per COC ("NS") and Field Information Form attached. Please log and proceed with analysis for the samples received.

*Hailey Robertson* *16 October 2025 9:21 AM*

Done

# ANALYTICAL REPORT

October 24, 2025



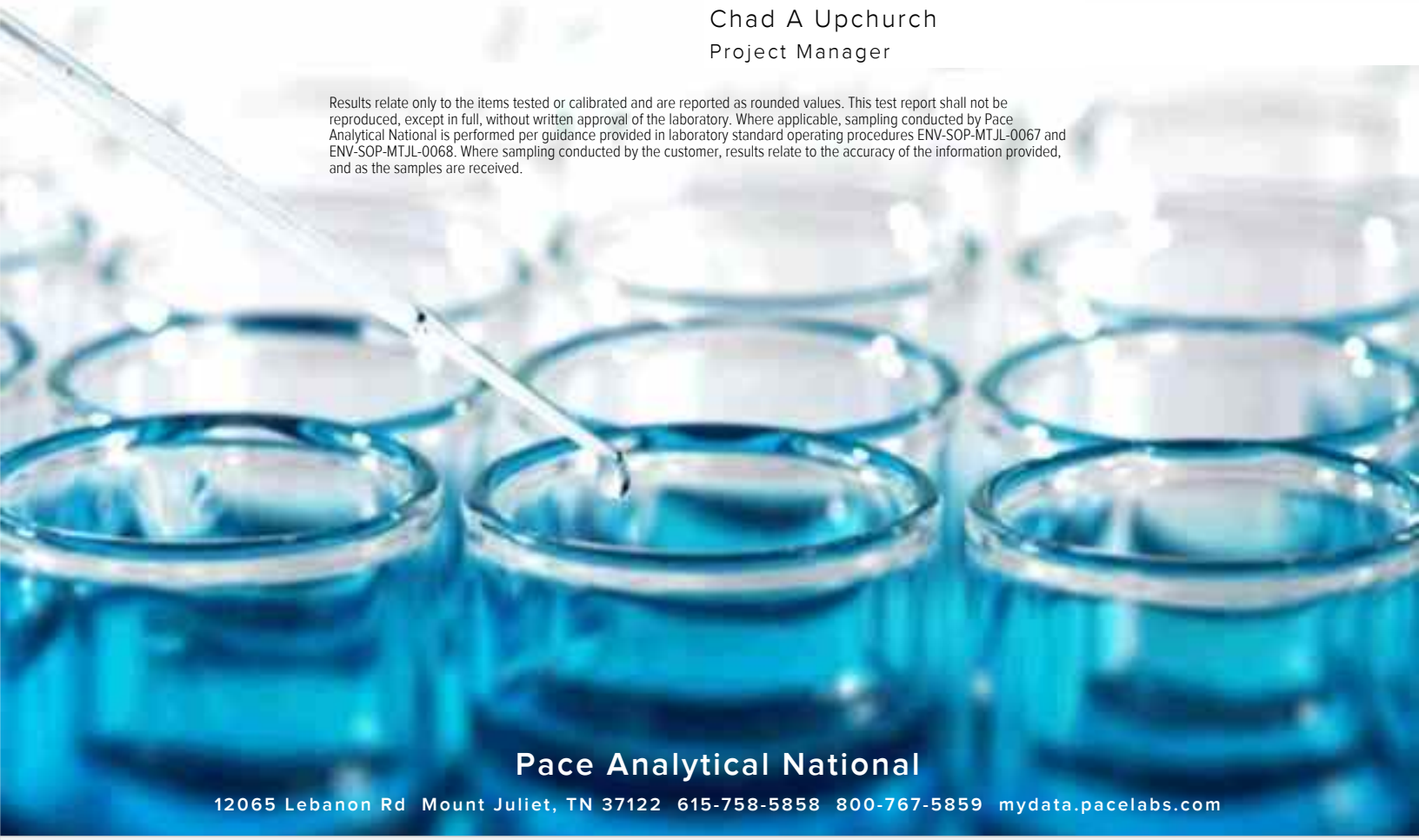
## Dickinson Landfill

| | |
|---|---|
| Sample Delivery Group: | L1908265 |
| Samples Received: | 10/15/2025 |
| Project Number: | 600 |
| Description: | Annual Holding Pond NPDES |
| Site: | IA01 |
| Report To: | Andy McCain<br>C/O Spruce Ridge 12755 137th Street<br>Glencoe, MN 55336 |

Entire Report Reviewed By:

Chad A Upchurch
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



Pace Analytical National
12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 mydata.pacelabs.com

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# SAMPLE SUMMARY

## GW Holding Pond L1908265-01

Collected by: NICK M
Collected date/time: 10/14/25 12:25
Received date/time: 10/15/25 09:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Gravimetric Analysis by Method 2540 C-2011 | WG2621524 | 1 | 10/16/25 10:53 | 10/17/25 09:13 | AMG | Mt. Juliet, TN |
| Wet Chemistry by Method 1664A | WG2622849 | 1 | 10/18/25 10:57 | 10/18/25 18:40 | DGC | Mt. Juliet, TN |
| Wet Chemistry by Method 2320 B-2011 | WG2621732 | 1 | 10/17/25 10:33 | 10/17/25 10:33 | RJP | Mt. Juliet, TN |
| Wet Chemistry by Method 350.1 | WG2621434 | 1 | 10/17/25 00:21 | 10/17/25 00:21 | RTW | Mt. Juliet, TN |
| Wet Chemistry by Method 353.2 | WG2624236 | 3 | 10/21/25 18:38 | 10/21/25 18:38 | CAT | Mt. Juliet, TN |
| Wet Chemistry by Method 410.4 | WG2625112 | 1 | 10/22/25 09:37 | 10/22/25 14:06 | DAM | Mt. Juliet, TN |
| Wet Chemistry by Method 4500CN E-2011 | WG2625028 | 1 | 10/22/25 06:55 | 10/22/25 16:24 | FNR | Mt. Juliet, TN |
| Wet Chemistry by Method 4500H+ B-2011 | WG2623512 | 1 | 10/20/25 11:35 | 10/20/25 11:35 | BMD | Mt. Juliet, TN |
| Wet Chemistry by Method 9056A | WG2621453 | 1 | 10/19/25 05:01 | 10/19/25 05:01 | ZSA | Mt. Juliet, TN |
| Wet Chemistry by Method 9060A | WG2624709 | 1 | 10/22/25 21:07 | 10/22/25 21:07 | TMH | Mt. Juliet, TN |
| Mercury by Method 7470A | WG2622415 | 1 | 10/21/25 14:17 | 10/22/25 12:31 | NDL | Mt. Juliet, TN |
| Metals (ICP) by Method 6010C | WG2621391 | 1 | 10/16/25 17:23 | 10/17/25 01:01 | JTM | Mt. Juliet, TN |
| Metals (ICP) by Method 6010C | WG2621408 | 1 | 10/16/25 12:52 | 10/16/25 15:19 | JTM | Mt. Juliet, TN |

Unless qualified or notated within the narrative below, all sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Chad A Upchurch
Project Manager

## Project Comments

The requested project specific reporting limits may be less than laboratory standard quantitation limits (PQL) but will be greater than or equal to the laboratory method detection limits (MDL). It is noted that results reported below lab standard quantitation limits (PQLs) may result in false positive/false negative values that may require additional laboratory quality assurance review, if requested. Routine laboratory procedures do not initiate a data review process for detections below the laboratory's PQL unless requested by the client.

## Sample Delivery Group (SDG) Narrative

The following samples were prepared and/or analyzed past recommended holding time. Concentrations should be considered minimum values.

| Batch | Method | Lab Sample ID |
|---|---|---|
| WG2623512 | 4500H+ B-2011 | L1908265-01 |

## Wet Chemistry by Method 353.2

The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).

| Batch | Lab Sample ID | Analytes |
|---|---|---|
| WG2624236 | (MS) R4290342-5 | Nitrate-Nitrite |
| WG2624236 | (MSD) R4290342-6 | Nitrate-Nitrite |

## Wet Chemistry by Method 4500CN E-2011

RPD value not applicable for sample concentrations less than 5 times the reporting limit.

| Batch | Lab Sample ID | Analytes |
|---|---|---|
| WG2625028 | (DUP) R4290693-3 | Cyanide |

The sample matrix interfered with the ability to make any accurate determination; spike value is high.

| Batch | Lab Sample ID | Analytes |
|---|---|---|
| WG2625028 | (MS) R4290693-4 | Cyanide |

## Wet Chemistry by Method 4500H+ B-2011

The associated batch QC was outside the established quality control range for precision.

| Batch | Lab Sample ID | Analytes |
|---|---|---|
| WG2623512 | (DUP) R4289420-2 | pH |

## Metals (ICP) by Method 6010C

Analysis was filtered in the laboratory.

| Batch | Method | Lab Sample ID |
|---|---|---|
| WG2621391 | 6010C | L1908265-01 |

## Additional Information - Results for field analyses are not accredited to ISO 17025

| Analyte | Result | Units |
|---|---|---|
| pH (On Site) | 7.27 | su |
| Specific Conductance (on site) | 1006 | umhos/cm |
| Temperature (on-site) | 13.5 | Deg C |
| Turbidity (on-site) | 8.9 | NTU |

## Gravimetric Analysis by Method 2540 C-2011

| Analyte | Result | Qualifier | RL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|
| | mg/l | | mg/l | | date / time | |
| Dissolved Solids | 604 | | 10.0 | 1 | 10/17/2025 09:13 | WG2621524 |

## Wet Chemistry by Method 1664A

| Analyte | Result | Qualifier | RL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|
| | mg/l | | mg/l | | date / time | |
| Oil & Grease (Hexane Extr) | ND | | 5.00 | 1 | 10/18/2025 18:40 | WG2622849 |

## Wet Chemistry by Method 2320 B-2011

| Analyte | Result | Qualifier | RL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|
| | mg/l | | mg/l | | date / time | |
| Alkalinity | 422 | | 20.0 | 1 | 10/17/2025 10:33 | WG2621732 |
| Alkalinity,Bicarbonate | 422 | | 20.0 | 1 | 10/17/2025 10:33 | WG2621732 |

**Sample Narrative:**

L1908265-01 WG2621732: Endpoint pH 4.5 HEADSPACE

## Wet Chemistry by Method 350.1

| Analyte | Result | Qualifier | RL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|
| | mg/l | | mg/l | | date / time | |
| Ammonia Nitrogen | 2.51 | | 0.100 | 1 | 10/17/2025 00:21 | WG2621434 |

## Wet Chemistry by Method 353.2

| Analyte | Result | Qualifier | RL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|
| | mg/l | | mg/l | | date / time | |
| Nitrate-Nitrite | ND | | 0.100 | 3 | 10/21/2025 18:38 | WG2624236 |

**Sample Narrative:**

L1908265-01 WG2624236: Dilution due to matrix.

## Wet Chemistry by Method 410.4

| Analyte | Result | Qualifier | RL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|
| | mg/l | | mg/l | | date / time | |
| COD | 47.3 | | 10.0 | 1 | 10/22/2025 14:06 | WG2625112 |

## Wet Chemistry by Method 4500CN E-2011

| Analyte | Result | Qualifier | RL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|
| | mg/l | | mg/l | | date / time | |
| Cyanide | ND | | 0.00500 | 1 | 10/22/2025 16:24 | WG2625028 |

## Wet Chemistry by Method 4500H+ B-2011

| Analyte | Result | Qualifier | Dilution | Analysis | Batch |
|---|---|---|---|---|---|
| | SU | | | date / time | |
| pH | 7.87 | T8 | 1 | 10/20/2025 11:35 | WG2623512 |

Sample Narrative:

L1908265-01 WG2623512: 7.87 at 18C

## Wet Chemistry by Method 9056A

| Analyte | Result | Qualifier | RL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|
| | mg/l | | mg/l | | date / time | |
| Chloride | 43.5 | | 1.00 | 1 | 10/19/2025 05:01 | WG2621453 |
| Sulfate | 50.7 | | 5.00 | 1 | 10/19/2025 05:01 | WG2621453 |

## Wet Chemistry by Method 9060A

| Analyte | Result | Qualifier | RL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|
| | mg/l | | mg/l | | date / time | |
| TOC (Total Organic Carbon) | 11.8 | | 1.00 | 1 | 10/22/2025 21:07 | WG2624709 |

## Mercury by Method 7470A

| Analyte | Result | Qualifier | RL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|
| | mg/l | | mg/l | | date / time | |
| Mercury | ND | | 0.000200 | 1 | 10/22/2025 12:31 | WG2622415 |

## Metals (ICP) by Method 6010C

| Analyte | Result | Qualifier | RL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|
| | mg/l | | mg/l | | date / time | |
| Silver | ND | | 0.0100 | 1 | 10/16/2025 15:19 | WG2621408 |
| Arsenic | 0.0131 | | 0.0100 | 1 | 10/16/2025 15:19 | WG2621408 |
| Barium | 0.174 | | 0.00500 | 1 | 10/16/2025 15:19 | WG2621408 |
| Calcium | 106 | | 1.00 | 1 | 10/16/2025 15:19 | WG2621408 |
| Cadmium | ND | | 0.00200 | 1 | 10/16/2025 15:19 | WG2621408 |
| Chromium | ND | | 0.0100 | 1 | 10/16/2025 15:19 | WG2621408 |
| Iron | 1.59 | | 0.100 | 1 | 10/16/2025 15:19 | WG2621408 |
| Potassium | 14.7 | | 1.00 | 1 | 10/16/2025 15:19 | WG2621408 |
| Magnesium,Dissolved | 43.1 | | 1.00 | 1 | 10/17/2025 01:01 | WG2621391 |
| Magnesium | 43.5 | | 1.00 | 1 | 10/16/2025 15:19 | WG2621408 |
| Sodium | 38.2 | | 1.00 | 1 | 10/16/2025 15:19 | WG2621408 |
| Lead | ND | | 0.00500 | 1 | 10/16/2025 15:19 | WG2621408 |
| Selenium | ND | | 0.0100 | 1 | 10/16/2025 15:19 | WG2621408 |

## Method Blank (MB)

(MB) R4289081-1 10/17/25 09:13

| Analyte | MB Result mg/l | MB Qualifier | MB MDL mg/l | MB RDL mg/l |
|---|---|---|---|---|
| Dissolved Solids | ND | | 2.82 | 10.0 |

## L1908242-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1908242-01 10/17/25 09:13 • (DUP) R4289081-3 10/17/25 09:13

| Analyte | Original Result mg/l | DUP Result mg/l | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|---|---|---|---|---|---|---|
| Dissolved Solids | 14100 | 14500 | 1 | 2.80 | | 10 |

## L1908263-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1908263-04 10/17/25 09:13 • (DUP) R4289081-4 10/17/25 09:13

| Analyte | Original Result mg/l | DUP Result mg/l | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|---|---|---|---|---|---|---|
| Dissolved Solids | 216 | 216 | 1 | 0.000 | | 10 |

## Laboratory Control Sample (LCS)

(LCS) R4289081-2 10/17/25 09:13

| Analyte | Spike Amount mg/l | LCS Result mg/l | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Dissolved Solids | 8800 | 8630 | 98.1 | 90.0-110 | |

## Method Blank (MB)

(MB) R4288978-1 10/18/25 18:40

| Analyte | MB Result mg/l | MB Qualifier | MB MDL mg/l | MB RDL mg/l |
|---|---|---|---|---|
| Oil & Grease (Hexane Extr) | ND | | 1.16 | 5.00 |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4288978-2 10/18/25 18:40 • (LCSD) R4288978-3 10/18/25 18:40

| Analyte | Spike Amount mg/l | LCS Result mg/l | LCSD Result mg/l | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Oil & Grease (Hexane Extr) | 40.0 | 31.6 | 35.2 | 79.0 | 88.0 | 78.0-114 | | | 10.8 | 20 |

## L1908281-02 Original Sample (OS) • Matrix Spike (MS)

(OS) L1908281-02 10/18/25 18:40 • (MS) R4288978-4 10/18/25 18:40

| Analyte | Spike Amount mg/l | Original Result mg/l | MS Result mg/l | MS Rec. % | Dilution | Rec. Limits % | MS Qualifier |
|---|---|---|---|---|---|---|---|
| Oil & Grease (Hexane Extr) | 40.0 | ND | 45.3 | 113 | 1 | 78.0-114 | |

## Method Blank (MB)

(MB) R4288561-2 10/17/25 10:25

| Analyte | MB Result mg/l | MB Qualifier | MB MDL mg/l | MB RDL mg/l |
|---|---|---|---|---|
| Alkalinity | ND | | 2.71 | 20.0 |
| Alkalinity,Bicarbonate | ND | | 2.71 | 20.0 |

Sample Narrative:

BLANK: Endpoint pH 4.5

## L1908265-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1908265-01 10/17/25 10:33 • (DUP) R4288561-3 10/17/25 10:37

| Analyte | Original Result mg/l | DUP Result mg/l | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|---|---|---|---|---|---|---|
| Alkalinity | 422 | 424 | 1 | 0.392 | | 20 |
| Alkalinity,Bicarbonate | 422 | 424 | 1 | 0.392 | | 20 |

Sample Narrative:

OS: Endpoint pH 4.5 HEADSPACE

DUP: Endpoint pH 4.5

## L1908501-17 Original Sample (OS) • Duplicate (DUP)

(OS) L1908501-17 10/17/25 12:14 • (DUP) R4288561-4 10/17/25 12:17

| Analyte | Original Result mg/l | DUP Result mg/l | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|---|---|---|---|---|---|---|
| Alkalinity | ND | ND | 1 | 0.000 | | 20 |
| Alkalinity,Bicarbonate | ND | ND | 1 | 0.000 | | 20 |

Sample Narrative:

OS: Endpoint pH 4.5 HEADSPACE

DUP: Endpoint pH 4.5

## Laboratory Control Sample (LCS)

(LCS) R4288561-1 10/17/25 10:20

| Analyte | Spike Amount mg/l | LCS Result mg/l | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Alkalinity | 100 | 105 | 105 | 90.0-110 | |

## Laboratory Control Sample (LCS)

(LCS) R4288561-1 10/17/25 10:20

| Analyte | Spike Amount mg/l | LCS Result mg/l | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|

Sample Narrative:

LCS: Endpoint pH 4.5

## Method Blank (MB)

(MB) R4288319-1 10/16/25 23:55

| Analyte | MB Result mg/l | MB Qualifier | MB MDL mg/l | MB RDL mg/l |
|---|---|---|---|---|
| Ammonia Nitrogen | ND | | 0.0317 | 0.100 |

## L1907545-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1907545-02 10/16/25 23:58 • (DUP) R4288319-3 10/17/25 00:00

| Analyte | Original Result mg/l | DUP Result mg/l | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|---|---|---|---|---|---|---|
| Ammonia Nitrogen | ND | ND | 1 | 0.000 | | 10 |

## Laboratory Control Sample (LCS)

(LCS) R4288319-2 10/16/25 23:57

| Analyte | Spike Amount mg/l | LCS Result mg/l | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Ammonia Nitrogen | 7.50 | 6.89 | 91.8 | 90.0-110 | |

## L1907545-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1907545-02 10/16/25 23:58 • (MS) R4288319-4 10/17/25 00:01 • (MSD) R4288319-5 10/17/25 00:03

| Analyte | Spike Amount mg/l | Original Result mg/l | MS Result mg/l | MSD Result mg/l | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Ammonia Nitrogen | 5.00 | ND | 4.66 | 4.77 | 93.1 | 95.4 | 1 | 90.0-110 | | | 2.40 | 10 |

## Method Blank (MB)

(MB) R4290342-1 10/21/25 17:56

| Analyte | MB Result mg/l | MB Qualifier | MB MDL mg/l | MB RDL mg/l |
|---|---|---|---|---|
| Nitrate-Nitrite | ND | | 0.0197 | 0.100 |

## Laboratory Control Sample (LCS)

(LCS) R4290342-2 10/21/25 17:59

| Analyte | Spike Amount mg/l | LCS Result mg/l | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Nitrate-Nitrite | 2.50 | 2.51 | 100 | 90.0-110 | |

## L1908258-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1908258-01 10/21/25 18:08 • (MS) R4290342-3 10/21/25 18:10 • (MSD) R4290342-4 10/21/25 18:13

| Analyte | Spike Amount mg/l | Original Result mg/l | MS Result mg/l | MSD Result mg/l | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Nitrate-Nitrite | 2.50 | ND | 2.44 | 2.41 | 97.7 | 96.2 | 1 | 90.0-110 | | | 1.49 | 20 |

## L1908274-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1908274-05 10/21/25 18:57 • (MS) R4290342-5 10/21/25 18:59 • (MSD) R4290342-6 10/21/25 19:02

| Analyte | Spike Amount mg/l | Original Result mg/l | MS Result mg/l | MSD Result mg/l | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Nitrate-Nitrite | 7.50 | 13.3 | 20.7 | 20.7 | 98.0 | 98.6 | 3 | 90.0-110 | E | E | 0.227 | 20 |

## Method Blank (MB)

(MB) R4290678-1 10/22/25 14:04

| Analyte | MB Result mg/l | MB Qualifier | MB MDL mg/l | MB RDL mg/l |
|---|---|---|---|---|
| COD | ND | | 3.00 | 10.0 |

## Laboratory Control Sample (LCS)

(LCS) R4290678-2 10/22/25 14:04

| Analyte | Spike Amount mg/l | LCS Result mg/l | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| COD | 500 | 494 | 98.8 | 90.0-110 | |

## L1908208-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1908208-01 10/22/25 14:04 • (MS) R4290678-3 10/22/25 14:05 • (MSD) R4290678-4 10/22/25 14:05

| Analyte | Spike Amount mg/l | Original Result mg/l | MS Result mg/l | MSD Result mg/l | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| COD | 500 | 54.9 | 556 | 549 | 100 | 98.8 | 1 | 90.0-110 | | | 1.38 | 20 |

## L1908261-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1908261-01 10/22/25 14:05 • (MS) R4290678-5 10/22/25 14:05 • (MSD) R4290678-6 10/22/25 14:06

| Analyte | Spike Amount mg/l | Original Result mg/l | MS Result mg/l | MSD Result mg/l | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| COD | 500 | 197 | 697 | 689 | 99.9 | 98.4 | 1 | 90.0-110 | | | 1.08 | 20 |

# QUALITY CONTROL SUMMARY

L1908265-01

## Method Blank (MB)

(MB) R4290693-1 10/22/25 16:02

| Analyte | MB Result | MB Qualifier | MB MDL | MB RDL |
|---|---|---|---|---|
| | mg/l | | mg/l | mg/l |
| Cyanide | ND | | 0.00180 | 0.00500 |

## L1908082-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1908082-01 10/22/25 16:11 • (DUP) R4290693-3 10/22/25 16:13

| Analyte | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|---|---|---|---|---|---|---|
| | mg/l | mg/l | | % | | % |
| Cyanide | 0.0102 | ND | 1 | 130 | P1 | 20 |

## Laboratory Control Sample (LCS)

(LCS) R4290693-2 10/22/25 16:04

| Analyte | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | LCS Qualifier |
|---|---|---|---|---|---|
| | mg/l | mg/l | % | % | |
| Cyanide | 0.100 | 0.105 | 105 | 87.1-120 | |

## L1908285-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1908285-02 10/22/25 16:28 • (MS) R4290693-4 10/22/25 16:30 • (MSD) R4290693-5 10/22/25 16:34

| Analyte | Spike Amount | Original Result | MS Result | MSD Result | MS Rec. | MSD Rec. | Dilution | Rec. Limits | MS Qualifier | MSD Qualifier | RPD | RPD Limits |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | mg/l | mg/l | mg/l | mg/l | % | % | | % | | | % | % |
| Cyanide | 0.100 | 0.0150 | 0.127 | 0.107 | 112 | 92.0 | 1 | 90.0-110 | J5 | | 17.1 | 20 |

## L1908291-02 Original Sample (OS) • Matrix Spike (MS)

(OS) L1908291-02 10/22/25 16:37 • (MS) R4290693-6 10/22/25 16:38

| Analyte | Spike Amount | Original Result | MS Result | MS Rec. | Dilution | Rec. Limits | MS Qualifier |
|---|---|---|---|---|---|---|---|
| | mg/l | mg/l | mg/l | % | | % | |
| Cyanide | 0.100 | ND | 0.0988 | 98.8 | 1 | 90.0-110 | |

## L1908021-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1908021-02 10/20/25 11:35 • (DUP) R4289420-2 10/20/25 11:35

| Analyte | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|---|---|---|---|---|---|---|
| | su | su | | % | | % |
| pH | 7.19 | 7.10 | 1 | 1.26 | J3 | 1 |

Sample Narrative:

OS: 7.19 at 19.3C

DUP: 7.1 at 18.8C

## L1908501-17 Original Sample (OS) • Duplicate (DUP)

(OS) L1908501-17 10/20/25 11:35 • (DUP) R4289420-4 10/20/25 11:35

| Analyte | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|---|---|---|---|---|---|---|
| | su | su | | % | | % |
| pH | 6.19 | 6.15 | 1 | 0.648 | | 1 |

Sample Narrative:

OS: 6.19 at 18.5C

DUP: 6.15 at 18.7C

## Laboratory Control Sample (LCS)

(LCS) R4289420-1 10/20/25 11:35

| Analyte | Spike Amount | LCS Result | LCS Rec. | Rec. Limits | LCS Qualifier |
|---|---|---|---|---|---|
| | su | su | % | % | |
| pH | 10.0 | 9.98 | 99.8 | 99.0-101 | |

Sample Narrative:

LCS: 9.98 at 18.3C

## Method Blank (MB)

(MB) R4289890-1 10/19/25 00:37

| Analyte | MB Result mg/l | MB Qualifier | MB MDL mg/l | MB RDL mg/l |
|---|---|---|---|---|
| Chloride | 0.0814 | J | 0.0519 | 1.00 |
| Sulfate | 0.144 | J | 0.0774 | 5.00 |

## L1908139-08 Original Sample (OS) • Duplicate (DUP)

(OS) L1908139-08 10/19/25 01:02 • (DUP) R4289890-3 10/19/25 01:15

| Analyte | Original Result mg/l | DUP Result mg/l | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|---|---|---|---|---|---|---|
| Sulfate | ND | ND | 1 | 0.000 | | 15 |

## L1908247-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1908247-02 10/19/25 02:18 • (DUP) R4289890-6 10/19/25 02:31

| Analyte | Original Result mg/l | DUP Result mg/l | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|---|---|---|---|---|---|---|
| Sulfate | 18.1 | 20.2 | 1 | 11.2 | | 15 |

## Laboratory Control Sample (LCS)

(LCS) R4289890-2 10/19/25 00:50

| Analyte | Spike Amount mg/l | LCS Result mg/l | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Chloride | 40.0 | 35.5 | 88.7 | 80.0-120 | |
| Sulfate | 40.0 | 36.2 | 90.6 | 80.0-120 | |

## L1908139-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1908139-08 10/19/25 01:02 • (MS) R4289890-4 10/19/25 01:28 • (MSD) R4289890-5 10/19/25 01:40

| Analyte | Spike Amount mg/l | Original Result mg/l | MS Result mg/l | MSD Result mg/l | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sulfate | 40.0 | ND | 36.5 | 36.4 | 91.3 | 91.0 | 1 | 80.0-120 | | | 0.347 | 15 |

## L1908247-02 Original Sample (OS) • Matrix Spike (MS)

(OS) L1908247-02 10/19/25 02:18 • (MS) R4289890-7 10/19/25 02:43

| Analyte | Spike Amount mg/l | Original Result mg/l | MS Result mg/l | MS Rec. % | Dilution | Rec. Limits % | MS Qualifier |
|---|---|---|---|---|---|---|---|
| Sulfate | 40.0 | 18.1 | 53.6 | 88.8 | 1 | 80.0-120 | |

## Method Blank (MB)

(MB) R4290939-2 10/22/25 11:03

| Analyte | MB Result mg/l | MB Qualifier | MB MDL mg/l | MB RDL mg/l |
|---|---|---|---|---|
| TOC (Total Organic Carbon) | 0.165 | J | 0.102 | 1.00 |

## L1908017-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1908017-01 10/22/25 12:26 • (DUP) R4290939-5 10/22/25 12:44

| Analyte | Original Result mg/l | DUP Result mg/l | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|---|---|---|---|---|---|---|
| TOC (Total Organic Carbon) | 1.09 | 1.06 | 1 | 3.16 | | 20 |

## L1908134-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1908134-03 10/22/25 17:02 • (DUP) R4290939-6 10/22/25 17:24

| Analyte | Original Result mg/l | DUP Result mg/l | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|---|---|---|---|---|---|---|
| TOC (Total Organic Carbon) | 8.17 | 8.04 | 1 | 1.62 | | 20 |

## Laboratory Control Sample (LCS)

(LCS) R4290939-1 10/22/25 10:46

| Analyte | Spike Amount mg/l | LCS Result mg/l | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| TOC (Total Organic Carbon) | 25.0 | 25.6 | 102 | 80.0-120 | |

## L1908003-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1908003-08 10/22/25 11:21 • (MS) R4290939-3 10/22/25 11:44 • (MSD) R4290939-4 10/22/25 12:07

| Analyte | Spike Amount mg/l | Original Result mg/l | MS Result mg/l | MSD Result mg/l | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TOC (Total Organic Carbon) | 25.0 | ND | 25.6 | 25.4 | 102 | 102 | 1 | 75.0-125 | | | 0.667 | 20 |

## L1908134-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1908134-04 10/22/25 17:51 • (MS) R4290939-7 10/22/25 18:19 • (MSD) R4290939-8 10/22/25 18:45

| Analyte | Spike Amount mg/l | Original Result mg/l | MS Result mg/l | MSD Result mg/l | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TOC (Total Organic Carbon) | 25.0 | 17.7 | 43.2 | 43.1 | 102 | 102 | 1 | 75.0-125 | | | 0.185 | 20 |

# QUALITY CONTROL SUMMARY

L1908265-01

## Method Blank (MB)

(MB) R4290468-1 10/22/25 11:33

| Analyte | MB Result mg/l | MB Qualifier | MB MDL mg/l | MB RDL mg/l |
|---|---|---|---|---|
| Mercury | ND | | 0.0000490 | 0.000200 |

## Laboratory Control Sample (LCS)

(LCS) R4290468-2 10/22/25 11:41

| Analyte | Spike Amount mg/l | LCS Result mg/l | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Mercury | 0.00300 | 0.00339 | 113 | 80.0-120 | |

## L1908266-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1908266-01 10/22/25 11:44 • (MS) R4290468-4 10/22/25 11:49 • (MSD) R4290468-5 10/22/25 11:51

| Analyte | Spike Amount mg/l | Original Result mg/l | MS Result mg/l | MSD Result mg/l | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.00300 | ND | 0.00326 | 0.00329 | 109 | 110 | 1 | 75.0-125 | | | 1.03 | 20 |

## Method Blank (MB)

(MB) R4288536-1 10/16/25 23:55

| Analyte | MB Result mg/l | MB Qualifier | MB MDL mg/l | MB RDL mg/l |
|---|---|---|---|---|
| Magnesium,Dissolved | ND | | 0.0111 | 1.00 |

## Laboratory Control Sample (LCS)

(LCS) R4288536-2 10/16/25 23:58

| Analyte | Spike Amount mg/l | LCS Result mg/l | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Magnesium,Dissolved | 10.0 | 9.92 | 99.2 | 80.0-120 | |

## L1908253-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1908253-02 10/17/25 00:00 • (MS) R4288536-4 10/17/25 00:05 • (MSD) R4288536-5 10/17/25 00:07

| Analyte | Spike Amount mg/l | Original Result mg/l | MS Result mg/l | MSD Result mg/l | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Magnesium,Dissolved | 10.0 | 42.9 | 51.9 | 52.1 | 89.2 | 91.8 | 1 | 75.0-125 | | | 0.501 | 20 |

## Method Blank (MB)

(MB) R4288451-1 10/16/25 14:59

| Analyte | MB Result mg/l | MB Qualifier | MB MDL mg/l | MB RDL mg/l |
|---|---|---|---|---|
| Silver | ND | | 0.00280 | 0.00500 |
| Arsenic | ND | | 0.00650 | 0.0100 |
| Barium | ND | | 0.00170 | 0.00500 |
| Calcium | ND | | 0.0463 | 1.00 |
| Cadmium | 0.00128 | J | 0.000700 | 0.00200 |
| Chromium | ND | | 0.00140 | 0.0100 |
| Iron | ND | | 0.0141 | 0.100 |
| Potassium | 0.140 | J | 0.102 | 1.00 |
| Magnesium | ND | | 0.0111 | 1.00 |
| Sodium | 0.0127 | J | 0.0111 | 1.00 |
| Lead | ND | | 0.00190 | 0.00500 |
| Selenium | ND | | 0.00740 | 0.0100 |

## Laboratory Control Sample (LCS)

(LCS) R4288451-2 10/16/25 15:01

| Analyte | Spike Amount mg/l | LCS Result mg/l | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Silver | 0.200 | 0.185 | 92.6 | 80.0-120 | |
| Arsenic | 1.00 | 0.954 | 95.4 | 80.0-120 | |
| Barium | 1.00 | 1.00 | 100 | 80.0-120 | |
| Calcium | 10.0 | 10.0 | 100 | 80.0-120 | |
| Cadmium | 1.00 | 0.961 | 96.1 | 80.0-120 | |
| Chromium | 1.00 | 0.995 | 99.5 | 80.0-120 | |
| Iron | 10.0 | 10.1 | 101 | 80.0-120 | |
| Potassium | 10.0 | 10.1 | 101 | 80.0-120 | |
| Magnesium | 10.0 | 10.2 | 102 | 80.0-120 | |
| Sodium | 10.0 | 10.2 | 102 | 80.0-120 | |
| Lead | 1.00 | 0.941 | 94.1 | 80.0-120 | |
| Selenium | 1.00 | 0.938 | 93.8 | 80.0-120 | |

## L1908253-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1908253-01 10/16/25 15:02 • (MS) R4288451-4 10/16/25 15:06 • (MSD) R4288451-5 10/16/25 15:07

| Analyte | Spike Amount mg/l | Original Result mg/l | MS Result mg/l | MSD Result mg/l | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Silver | 0.200 | ND | 0.186 | 0.185 | 93.1 | 92.4 | 1 | 75.0-125 | | | 0.656 | 20 |
| Arsenic | 1.00 | ND | 0.981 | 0.997 | 98.1 | 99.7 | 1 | 75.0-125 | | | 1.70 | 20 |
| Barium | 1.00 | 0.0535 | 1.03 | 1.03 | 98.0 | 98.0 | 1 | 75.0-125 | | | 0.0210 | 20 |

## L1908253-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1908253-01 10/16/25 15:02 • (MS) R4288451-4 10/16/25 15:06 • (MSD) R4288451-5 10/16/25 15:07

| Analyte | Spike Amount mg/l | Original Result mg/l | MS Result mg/l | MSD Result mg/l | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Calcium | 10.0 | 85.4 | 94.6 | 94.2 | 92.3 | 87.6 | 1 | 75.0-125 | | | 0.501 | 20 |
| Cadmium | 1.00 | ND | 0.965 | 0.962 | 96.3 | 96.1 | 1 | 75.0-125 | | | 0.228 | 20 |
| Chromium | 1.00 | ND | 0.984 | 0.987 | 98.4 | 98.7 | 1 | 75.0-125 | | | 0.315 | 20 |
| Iron | 10.0 | 4.57 | 14.7 | 14.9 | 102 | 103 | 1 | 75.0-125 | | | 0.854 | 20 |
| Potassium | 10.0 | 1.60 | 11.6 | 11.6 | 100 | 99.6 | 1 | 75.0-125 | | | 0.373 | 20 |
| Magnesium | 10.0 | 37.3 | 47.1 | 47.1 | 98.1 | 98.6 | 1 | 75.0-125 | | | 0.113 | 20 |
| Sodium | 10.0 | 188 | 197 | 196 | 89.6 | 76.9 | 1 | 75.0-125 | | | 0.651 | 20 |
| Lead | 1.00 | ND | 0.956 | 0.960 | 95.6 | 96.0 | 1 | 75.0-125 | | | 0.351 | 20 |
| Selenium | 1.00 | ND | 0.961 | 0.970 | 95.2 | 96.0 | 1 | 75.0-125 | | | 0.898 | 20 |

# GLOSSARY OF TERMS

## Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

## Abbreviations and Definitions

| | |
|---|---|
| MDL | Method Detection Limit. |
| ND | Not detected at the Reporting Limit (or MDL where applicable). |
| RDL | Reported Detection Limit. |
| Rec. | Recovery. |
| RPD | Relative Percent Difference. |
| SDG | Sample Delivery Group. |
| Analyte | The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported. |
| Dilution | If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor. |
| Limits | These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges. |
| Original Sample | The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG. |
| Qualifier | This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable. |
| Result | The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte. |
| Uncertainty (Radiochemistry) | Confidence level of 2 sigma. |
| U (Radiochemistry) | Result + Error < MDA. |
| J (Radiochemistry) | Result < MDA; Result + Error > MDA. |
| Case Narrative (Cn) | A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report. |
| Quality Control Summary (Qc) | This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material. |
| Sample Chain of Custody (Sc) | This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis. |
| Sample Results (Sr) | This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported. |
| Sample Summary (Ss) | This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis. |

| Qualifier | Description |
|---|---|
| E | The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL). |
| J | The identification of the analyte is acceptable; the reported value is an estimate. |
| J3 | The associated batch QC was outside the established quality control range for precision. |
| J5 | The sample matrix interfered with the ability to make any accurate determination; spike value is high. |
| P1 | RPD value not applicable for sample concentrations less than 5 times the reporting limit. |
| T8 | Sample(s) received past/too close to holding time expiration. |

# ACCREDITATIONS & LOCATIONS

## Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

| | | | |
|---|---|---|---|
| Alabama | 40660 | Nebraska | NE-OS-15-05 |
| Alaska | 17-026 | Nevada | TN000032021-1 |
| Arizona | AZ0612 | New Hampshire | 2975 |
| Arkansas | 88-0469 | New Jersey–NELAP | TN002 |
| California | 2932 | New Mexico [1] | TN00003 |
| Colorado | TN00003 | New York | 11742 |
| Connecticut | PH-0197 | North Carolina | Env375 |
| Florida | E87487 | North Carolina [1] | DW21704 |
| Georgia | NELAP | North Carolina [3] | 41 |
| Georgia [1] | 923 | North Dakota | R-140 |
| Idaho | TN00003 | Ohio–VAP | CL0069 |
| Illinois | 200008 | Oklahoma | 9915 |
| Indiana | C-TN-01 | Oregon | TN200002 |
| Iowa | 364 | Pennsylvania | 68-02979 |
| Kansas | E-10277 | Rhode Island | LAO000356 |
| Kentucky [1 6] | KY90010 | South Carolina | 84004002 |
| Kentucky [2] | 16 | South Dakota | n/a |
| Louisiana | AI30792 | Tennessee [1 4] | 2006 |
| Louisiana | LA018 | Texas | T104704245-20-18 |
| Maine | TN00003 | Texas [5] | LAB0152 |
| Maryland | 324 | Utah | TN000032021-11 |
| Massachusetts | M-TN003 | Vermont | VT2006 |
| Michigan | 9958 | Virginia | 110033 |
| Minnesota | 047-999-395 | Washington | C847 |
| Mississippi | TN00003 | West Virginia | 233 |
| Missouri | 340 | Wisconsin | 998093910 |
| Montana | CERT0086 | Wyoming | A2LA |
| A2LA – ISO 17025 | 1461.01 | AIHA-LAP,LLC EMLAP | 100789 |
| A2LA – ISO 17025 [5] | 1461.02 | DOD | 1461.01 |
| Canada | 1461.01 | USDA | P330-15-00234 |
| EPA–Crypto | TN00003 | | |

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

Company Name/Address:
**Dickinson Landfill**

**C/O Spruce Ridge 12755 137th Street**
**Glencoe, MN 55336**

Billing Information:
**Accounts Payable/ddemory@wm.com**
**PO Box 4745**
**Portland, OR 97208-4745**

Pres Chk

Report to:
**Andy McCain 320-864-5503**

Email To:
**ddemory@wm.com;cory.anderson2@stantec.co**

Project Description:
**Annual Holding Pond NPDES**

City/State Collected:

Please Circle: PT MT CT ET

Regulatory Program(DOD,RCRA,DW,etc):

Client Project #
**600**

Lab Project #
**WMDICIA-00011**

Collected by (print):
Nick M

Site/Facility ID #
**IA01**

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y ✓

***Rush?*** (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day ___ STD TAT

Quote #

Date Results Needed

No. of Cntrs

Analysis / Container / Preservative

| Sample ID | Comp/Grab | Matrix * | Depth | Date | Time | No. of Cntrs | ALK,ALKBI,PH 250mlHDPE-NoPres | CL,SO4 125mlHDPE-NoPres | CN 250mlHDPEAmb-NaOH | COD,NH3,NO2NO3 500mlHDPE-Add H2SO4 | Diss Mg-Lab filter 250mlHDPE-NoPres | OGHEX 1L-Clr-WT-HCl | TDS 1L-HDPE NoPres | TOC 250mlAmb-HCl | Total Metals 250mlHDPE-HNO3 | | Remarks | Sample # (lab only) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GW Holding Pond | | GW | | 140ct25 | 1225 | 10 | X | X | X | X | X | X | X | X | X | | | -01 |

Chain of Custody Page ___ of ___

Pace
PEOPLE ADVANCING SCIENCE

**MT JULIET, TN**

12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # L1908265

**F233**

Acctnum: **WMDICIA**
Template:**T273312**
Prelogin: **P1183048**
PM: **3564 - Chad A Upchurch**
PB: 10/9/25 mV
Shipped Via: **FedEX Ground**

* Matrix:
**SS** - Soil **AIR** - Air **F** - Filter
**GW** - Groundwater **B** - Bioassay
**WW** - WasteWater
**DW** - Drinking Water
**OT** - Other_____

**Remarks:**

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking # 478 2724 9432

Sample Receipt Checklist
COC Seal Present/Intact: __NP ✓Y __N
COC Signed/Accurate: ✓Y __N
Bottles arrive intact: ✓Y __N
Correct bottles used: ✓Y __N
Sufficient volume sent: ✓Y __N
If Applicable
VOA Zero Headspace: __Y ✓N
Preservation Correct/Checked: ✓Y __N
RAD Screen <0.5 mR/hr: ✓Y __N

| Relinquished by : (Signature) | Date: | Time: | Received by: (Signature) |
|---|---|---|---|
| | 140ct25 | 1530 | |
| Relinquished by : (Signature) | Date: | Time: | Received by: (Signature) |
| Relinquished by : (Signature) | Date: | Time: | Received for lab by: (Signature) |

Trip Blank Received: Yes / No
HCL / MeoH
TBR

Temp: 7.0/7.1/0=2.1 °C Bottles Received: 10

Date: 01/15/25 Time: 9:00

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

# FIELD INFORMATION FORM

**Surface Water, Stormwater and Leachate**

WASTE MANAGEMENT

Site Name: Dickinson Co. SLF

Sample I.D.: GW Holding Pond

Laboratory Use Only / Lab I.D.: L1908265

## Sampling Method & Equipment

Purge and Sample Equipment:

Sampling Method: [D] (D - Direct, I - Indirect, V - Visual)

Sampling Equipment: [D] (D - Dipper, T - Transfer Vessel, S - Sample Bottle, O - Other) [Whale]

Sample Type: [Grab] (Grab / Composite) (circle one)

## Field Measurements

| Sample Date MM/DD/YYYY | Sample Time 24 Hr. Clock | pH (std. Units) | CONDUCTIVITY (umhos/cm @ 25°C) | Temp °C | TURBIDITY (NTUs) | DO mg/L - ppm | eH/ORP (std. Units) |
|---|---|---|---|---|---|---|---|
| 10/14/2025 | 1225 | 7.27 | 1006 | 13.5° | 8.90 | 7.11 | 126.1 |

*Record final stabilized field readings.*

## Field Observations

Sample Appearance: Odor: earthy Color: tan Other: light sediment

Sheen Present [Y] or [N] Foam Present: [Y] or [N] Floating Solids: [Y] or [N]

Weather Conditions: (required daily, or as conditions change):

Direction/Speed: 50°F / East 13 Precipitation: [Y] or [N]

Specific Comments:

10/14/2025 NM [signature] MTL

Date / / Name Signature Company

# ANALYTICAL REPORT

December 16, 2025



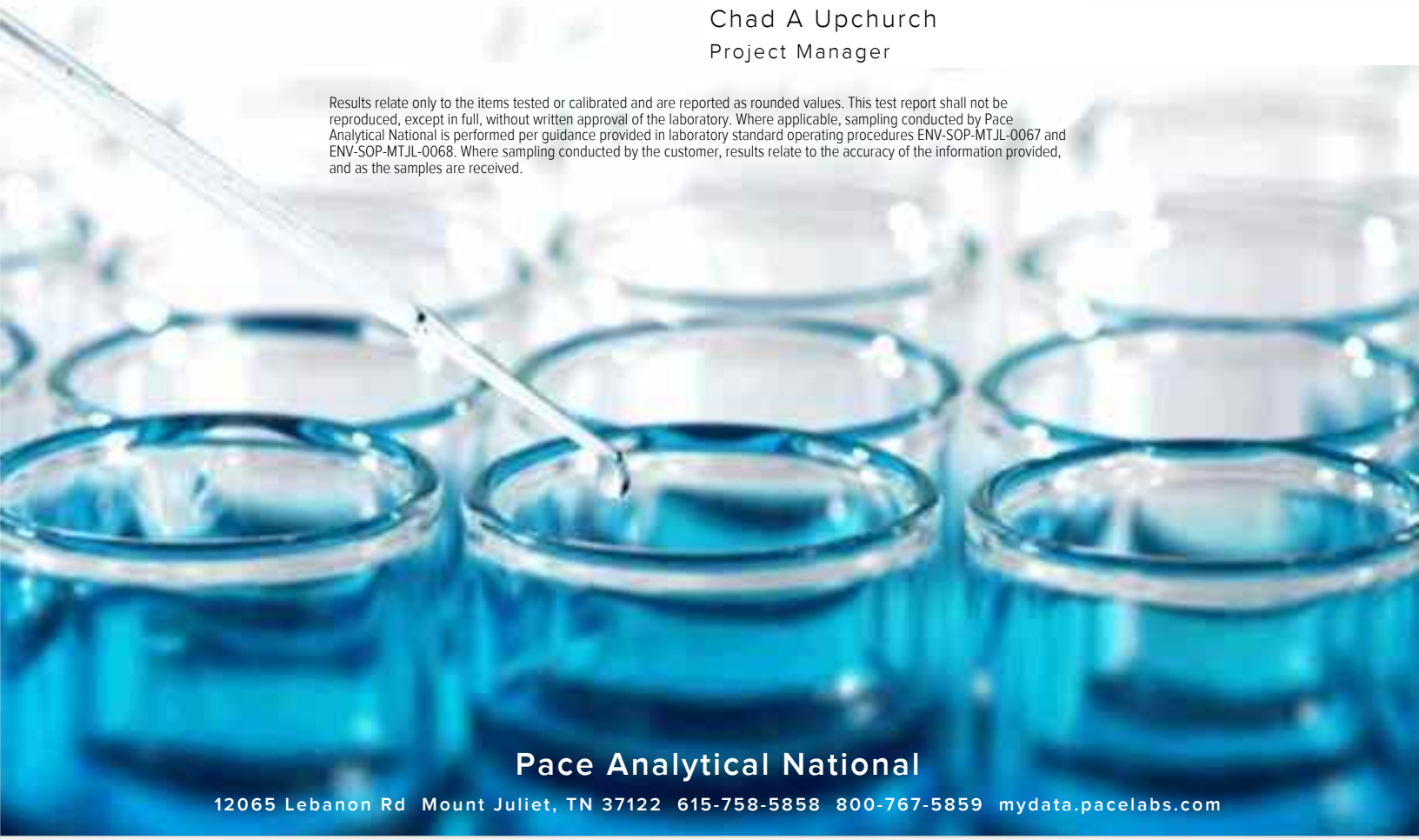
## Dickinson Landfill

| | |
|---|---|
| Sample Delivery Group: | L1922859 |
| Samples Received: | 11/26/2025 |
| Project Number: | 200 |
| Description: | Semiannual GW Detection (10-11) |
| Site: | IA01 |
| Report To: | Andy McCain<br>C/O Spruce Ridge 12755 137th Street<br>Glencoe, MN 55336 |

Entire Report Reviewed By:

Chad A Upchurch
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



Pace Analytical National
12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 mydata.pacelabs.com

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# SAMPLE SUMMARY

## MW-34A L1922859-01

Collected by: DF
Collected date/time: 11/24/25 11:08
Received date/time: 11/26/25 09:30

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Gravimetric Analysis by Method 2540 D-2011 | WG2648815 | 1 | 12/01/25 06:46 | 12/01/25 07:29 | AMG | Mt. Juliet, TN |
| Metals (ICP) by Method 6010C | WG2648783 | 1 | 12/02/25 10:21 | 12/02/25 15:17 | MAP | Mt. Juliet, TN |
| Metals (ICPMS) by Method 6020A | WG2648986 | 1 | 11/29/25 10:28 | 12/11/25 21:08 | TMT | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG2649741 | 1 | 12/01/25 12:47 | 12/01/25 12:47 | BRA | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG2649932 | 1 | 12/01/25 18:19 | 12/01/25 18:19 | JBE | Mt. Juliet, TN |

## TRIP BLANK L1922859-02

Collected by: DF
Collected date/time: 11/24/25 08:00
Received date/time: 11/26/25 09:30

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG2649741 | 1 | 12/01/25 11:43 | 12/01/25 11:43 | BRA | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG2649932 | 1 | 12/01/25 14:18 | 12/01/25 14:18 | JBE | Mt. Juliet, TN |

Unless qualified or notated within the narrative below, all sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Chad A Upchurch
Project Manager

## Project Comments

The requested project specific reporting limits may be less than laboratory standard quantitation limits (PQL) but will be greater than or equal to the laboratory method detection limits (MDL). It is noted that results reported below lab standard quantitation limits (PQLs) may result in false positive/false negative values that may require additional laboratory quality assurance review, if requested. Routine laboratory procedures do not initiate a data review process for detections below the laboratory's PQL unless requested by the client.

## Volatile Organic Compounds (GC/MS) by Method 8260C

The associated batch QC was outside the established quality control range for precision.

| Batch | Lab Sample ID | Analytes |
|---|---|---|
| WG2649932 | (LCSD) R4308656-2, L1922859-01, 02 | trans-1,4-Dichloro-2-butene |

## Additional Information - Results for field analyses are not accredited to ISO 17025

| Analyte | Result | Units |
|---|---|---|
| Depth to water (DTW) (FROM TOC) | 21.65 | ftmsl |
| pH (On Site) | 6.66 | su |
| Specific Conductance (on site) | 1497 | umhos/cm |
| Temperature (on-site) | 13 | Deg. C |
| Turbidity (on-site) | 2.5 | NTU |
| Dissolved Oxygen (on-site) | 2.8 | mg/l |
| eH/ORP ( On Site ) | -160 | mV |

## Gravimetric Analysis by Method 2540 D-2011

| Analyte | Result | Qualifier | RL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|
| | mg/l | | mg/l | | date / time | |
| Suspended Solids | 7.90 | | 2.50 | 1 | 12/01/2025 07:29 | WG2648815 |

## Metals (ICP) by Method 6010C

| Analyte | Result | Qualifier | RL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|
| | mg/l | | mg/l | | date / time | |
| Silver | ND | | 0.0100 | 1 | 12/02/2025 15:17 | WG2648783 |
| Arsenic | ND | | 0.0100 | 1 | 12/02/2025 15:17 | WG2648783 |
| Barium | 0.0393 | | 0.0200 | 1 | 12/02/2025 15:17 | WG2648783 |
| Beryllium | ND | | 0.00400 | 1 | 12/02/2025 15:17 | WG2648783 |
| Cadmium | ND | | 0.00500 | 1 | 12/02/2025 15:17 | WG2648783 |
| Chromium | ND | | 0.0100 | 1 | 12/02/2025 15:17 | WG2648783 |
| Copper | ND | | 0.0100 | 1 | 12/02/2025 15:17 | WG2648783 |
| Nickel | ND | | 0.0100 | 1 | 12/02/2025 15:17 | WG2648783 |
| Lead | ND | | 0.0100 | 1 | 12/02/2025 15:17 | WG2648783 |
| Vanadium | ND | | 0.0200 | 1 | 12/02/2025 15:17 | WG2648783 |
| Zinc | ND | | 0.0500 | 1 | 12/02/2025 15:17 | WG2648783 |

## Metals (ICPMS) by Method 6020A

| Analyte | Result | Qualifier | RL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|
| | mg/l | | mg/l | | date / time | |
| Cobalt | ND | | 0.00200 | 1 | 12/11/2025 21:08 | WG2648986 |
| Antimony | ND | | 0.00600 | 1 | 12/11/2025 21:08 | WG2648986 |
| Selenium | ND | | 0.0100 | 1 | 12/11/2025 21:08 | WG2648986 |
| Thallium | ND | | 0.00200 | 1 | 12/11/2025 21:08 | WG2648986 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result | Qualifier | RL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|
| | ug/l | | ug/l | | date / time | |
| 1,1,1,2-Tetrachloroethane | ND | | 1.00 | 1 | 12/01/2025 18:19 | WG2649932 |
| 1,2,3-Trichloropropane | ND | | 0.00580 | 1 | 12/01/2025 12:47 | WG2649741 |
| 1,1,1-Trichloroethane | ND | | 1.00 | 1 | 12/01/2025 18:19 | WG2649932 |
| 1,2-Dibromo-3-Chloropropane | ND | | 0.200 | 1 | 12/01/2025 12:47 | WG2649741 |
| 1,1,2,2-Tetrachloroethane | ND | | 0.300 | 1 | 12/01/2025 18:19 | WG2649932 |
| 1,2-Dibromoethane | ND | | 0.0500 | 1 | 12/01/2025 12:47 | WG2649741 |
| 1,1,2-Trichloroethane | ND | | 1.00 | 1 | 12/01/2025 18:19 | WG2649932 |
| 1,1-Dichloroethane | ND | | 1.00 | 1 | 12/01/2025 18:19 | WG2649932 |
| 1,1-Dichloroethene | ND | | 1.00 | 1 | 12/01/2025 18:19 | WG2649932 |
| 1,2-Dichlorobenzene | ND | | 1.00 | 1 | 12/01/2025 18:19 | WG2649932 |
| 1,2-Dichloroethane | ND | | 1.00 | 1 | 12/01/2025 18:19 | WG2649932 |
| 1,2-Dichloropropane | ND | | 1.00 | 1 | 12/01/2025 18:19 | WG2649932 |
| 1,4-Dichlorobenzene | ND | | 1.00 | 1 | 12/01/2025 18:19 | WG2649932 |
| 2-Butanone (MEK) | ND | | 10.0 | 1 | 12/01/2025 18:19 | WG2649932 |
| 2-Hexanone | ND | | 5.00 | 1 | 12/01/2025 18:19 | WG2649932 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result ug/l | Qualifier | RL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.00 | 1 | 12/01/2025 18:19 | WG2649932 |
| Acetone | ND | | 25.0 | 1 | 12/01/2025 18:19 | WG2649932 |
| Acrylonitrile | ND | | 0.320 | 1 | 12/01/2025 18:19 | WG2649932 |
| Benzene | ND | | 1.00 | 1 | 12/01/2025 18:19 | WG2649932 |
| Bromochloromethane | ND | | 1.00 | 1 | 12/01/2025 18:19 | WG2649932 |
| Bromodichloromethane | ND | | 1.00 | 1 | 12/01/2025 18:19 | WG2649932 |
| Bromoform | ND | | 1.00 | 1 | 12/01/2025 18:19 | WG2649932 |
| Bromomethane | ND | | 2.50 | 1 | 12/01/2025 18:19 | WG2649932 |
| Carbon disulfide | ND | | 1.00 | 1 | 12/01/2025 18:19 | WG2649932 |
| Carbon tetrachloride | ND | | 1.00 | 1 | 12/01/2025 18:19 | WG2649932 |
| Chlorobenzene | ND | | 1.00 | 1 | 12/01/2025 18:19 | WG2649932 |
| Chloroethane | ND | | 2.50 | 1 | 12/01/2025 18:19 | WG2649932 |
| Chloroform | ND | | 1.00 | 1 | 12/01/2025 18:19 | WG2649932 |
| Chloromethane | ND | | 1.25 | 1 | 12/01/2025 18:19 | WG2649932 |
| Dibromochloromethane | ND | | 1.00 | 1 | 12/01/2025 18:19 | WG2649932 |
| Dibromomethane | ND | | 1.00 | 1 | 12/01/2025 18:19 | WG2649932 |
| Ethylbenzene | ND | | 1.00 | 1 | 12/01/2025 18:19 | WG2649932 |
| Iodomethane | ND | | 10.0 | 1 | 12/01/2025 18:19 | WG2649932 |
| Methylene Chloride | ND | | 2.50 | 1 | 12/01/2025 18:19 | WG2649932 |
| Styrene | ND | | 1.00 | 1 | 12/01/2025 18:19 | WG2649932 |
| Tetrachloroethene | ND | | 1.00 | 1 | 12/01/2025 18:19 | WG2649932 |
| Toluene | ND | | 1.00 | 1 | 12/01/2025 18:19 | WG2649932 |
| Trichloroethene | ND | | 1.00 | 1 | 12/01/2025 18:19 | WG2649932 |
| Trichlorofluoromethane | ND | | 2.50 | 1 | 12/01/2025 18:19 | WG2649932 |
| Vinyl acetate | ND | | 5.00 | 1 | 12/01/2025 18:19 | WG2649932 |
| Vinyl chloride | ND | | 1.00 | 1 | 12/01/2025 18:19 | WG2649932 |
| Xylenes, Total | ND | | 3.00 | 1 | 12/01/2025 18:19 | WG2649932 |
| cis-1,2-Dichloroethene | ND | | 1.00 | 1 | 12/01/2025 18:19 | WG2649932 |
| cis-1,3-Dichloropropene | ND | | 1.00 | 1 | 12/01/2025 18:19 | WG2649932 |
| trans-1,2-Dichloroethene | ND | | 1.00 | 1 | 12/01/2025 18:19 | WG2649932 |
| trans-1,3-Dichloropropene | ND | | 1.00 | 1 | 12/01/2025 18:19 | WG2649932 |
| trans-1,4-Dichloro-2-butene | ND | J3 | 1.00 | 1 | 12/01/2025 18:19 | WG2649932 |
| *(S) 4-Bromofluorobenzene* | *93.5* | | | *67.0-138* | *12/01/2025 18:19* | WG2649932 |
| *(S) Toluene-d8* | *103* | | | *75.0-131* | *12/01/2025 18:19* | WG2649932 |
| *(S) 1,2-Dichloroethane-d4* | *109* | | | *70.0-130* | *12/01/2025 18:19* | WG2649932 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result | Qualifier | RL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|
| | ug/l | | ug/l | | date / time | |
| 1,1,1,2-Tetrachloroethane | ND | | 1.00 | 1 | 12/01/2025 14:18 | WG2649932 |
| 1,2,3-Trichloropropane | ND | | 0.00580 | 1 | 12/01/2025 11:43 | WG2649741 |
| 1,1,1-Trichloroethane | ND | | 1.00 | 1 | 12/01/2025 14:18 | WG2649932 |
| 1,2-Dibromo-3-Chloropropane | ND | | 0.200 | 1 | 12/01/2025 11:43 | WG2649741 |
| 1,1,2,2-Tetrachloroethane | ND | | 0.300 | 1 | 12/01/2025 14:18 | WG2649932 |
| 1,2-Dibromoethane | ND | | 0.0500 | 1 | 12/01/2025 11:43 | WG2649741 |
| 1,1,2-Trichloroethane | ND | | 1.00 | 1 | 12/01/2025 14:18 | WG2649932 |
| 1,1-Dichloroethane | ND | | 1.00 | 1 | 12/01/2025 14:18 | WG2649932 |
| 1,1-Dichloroethene | ND | | 1.00 | 1 | 12/01/2025 14:18 | WG2649932 |
| 1,2-Dichlorobenzene | ND | | 1.00 | 1 | 12/01/2025 14:18 | WG2649932 |
| 1,2-Dichloroethane | ND | | 1.00 | 1 | 12/01/2025 14:18 | WG2649932 |
| 1,2-Dichloropropane | ND | | 1.00 | 1 | 12/01/2025 14:18 | WG2649932 |
| 1,4-Dichlorobenzene | ND | | 1.00 | 1 | 12/01/2025 14:18 | WG2649932 |
| 2-Butanone (MEK) | ND | | 10.0 | 1 | 12/01/2025 14:18 | WG2649932 |
| 2-Hexanone | ND | | 5.00 | 1 | 12/01/2025 14:18 | WG2649932 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.00 | 1 | 12/01/2025 14:18 | WG2649932 |
| Acetone | ND | | 25.0 | 1 | 12/01/2025 14:18 | WG2649932 |
| Acrylonitrile | ND | | 0.320 | 1 | 12/01/2025 14:18 | WG2649932 |
| Benzene | ND | | 1.00 | 1 | 12/01/2025 14:18 | WG2649932 |
| Bromochloromethane | ND | | 1.00 | 1 | 12/01/2025 14:18 | WG2649932 |
| Bromodichloromethane | ND | | 1.00 | 1 | 12/01/2025 14:18 | WG2649932 |
| Bromoform | ND | | 1.00 | 1 | 12/01/2025 14:18 | WG2649932 |
| Bromomethane | ND | | 2.50 | 1 | 12/01/2025 14:18 | WG2649932 |
| Carbon disulfide | ND | | 1.00 | 1 | 12/01/2025 14:18 | WG2649932 |
| Carbon tetrachloride | ND | | 1.00 | 1 | 12/01/2025 14:18 | WG2649932 |
| Chlorobenzene | ND | | 1.00 | 1 | 12/01/2025 14:18 | WG2649932 |
| Chloroethane | ND | | 2.50 | 1 | 12/01/2025 14:18 | WG2649932 |
| Chloroform | ND | | 1.00 | 1 | 12/01/2025 14:18 | WG2649932 |
| Chloromethane | ND | | 1.25 | 1 | 12/01/2025 14:18 | WG2649932 |
| Dibromochloromethane | ND | | 1.00 | 1 | 12/01/2025 14:18 | WG2649932 |
| Dibromomethane | ND | | 1.00 | 1 | 12/01/2025 14:18 | WG2649932 |
| Ethylbenzene | ND | | 1.00 | 1 | 12/01/2025 14:18 | WG2649932 |
| Iodomethane | ND | | 10.0 | 1 | 12/01/2025 14:18 | WG2649932 |
| Methylene Chloride | ND | | 2.50 | 1 | 12/01/2025 14:18 | WG2649932 |
| Styrene | ND | | 1.00 | 1 | 12/01/2025 14:18 | WG2649932 |
| Tetrachloroethene | ND | | 1.00 | 1 | 12/01/2025 14:18 | WG2649932 |
| Toluene | ND | | 1.00 | 1 | 12/01/2025 14:18 | WG2649932 |
| Trichloroethene | ND | | 1.00 | 1 | 12/01/2025 14:18 | WG2649932 |
| Trichlorofluoromethane | ND | | 2.50 | 1 | 12/01/2025 14:18 | WG2649932 |
| Vinyl acetate | ND | | 5.00 | 1 | 12/01/2025 14:18 | WG2649932 |
| Vinyl chloride | ND | | 1.00 | 1 | 12/01/2025 14:18 | WG2649932 |
| Xylenes, Total | ND | | 3.00 | 1 | 12/01/2025 14:18 | WG2649932 |
| cis-1,2-Dichloroethene | ND | | 1.00 | 1 | 12/01/2025 14:18 | WG2649932 |
| cis-1,3-Dichloropropene | ND | | 1.00 | 1 | 12/01/2025 14:18 | WG2649932 |
| trans-1,2-Dichloroethene | ND | | 1.00 | 1 | 12/01/2025 14:18 | WG2649932 |
| trans-1,3-Dichloropropene | ND | | 1.00 | 1 | 12/01/2025 14:18 | WG2649932 |
| trans-1,4-Dichloro-2-butene | ND | J3 | 1.00 | 1 | 12/01/2025 14:18 | WG2649932 |
| *(S) 4-Bromofluorobenzene* | *93.4* | | | *67.0-138* | *12/01/2025 14:18* | WG2649932 |
| *(S) Toluene-d8* | *101* | | | *75.0-131* | *12/01/2025 14:18* | WG2649932 |
| *(S) 1,2-Dichloroethane-d4* | *109* | | | *70.0-130* | *12/01/2025 14:18* | WG2649932 |

## Method Blank (MB)

(MB) R4308131-1 12/01/25 07:29

| Analyte | MB Result mg/l | MB Qualifier | MB MDL mg/l | MB RDL mg/l |
|---|---|---|---|---|
| Suspended Solids | ND | | 0.350 | 2.50 |

## L1922826-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1922826-02 12/01/25 07:29 • (DUP) R4308131-3 12/01/25 07:29

| Analyte | Original Result mg/l | DUP Result mg/l | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|---|---|---|---|---|---|---|
| Suspended Solids | 74.8 | 75.6 | 1 | 1.06 | | 10 |

## L1922885-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1922885-01 12/01/25 07:29 • (DUP) R4308131-4 12/01/25 07:29

| Analyte | Original Result mg/l | DUP Result mg/l | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|---|---|---|---|---|---|---|
| Suspended Solids | 53.2 | 52.0 | 1 | 2.28 | | 10 |

## Laboratory Control Sample (LCS)

(LCS) R4308131-2 12/01/25 07:29

| Analyte | Spike Amount mg/l | LCS Result mg/l | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Suspended Solids | 773 | 750 | 97.0 | 85.0-115 | |

## Method Blank (MB)

(MB) R4309057-1 12/02/25 14:28

| Analyte | MB Result mg/l | MB Qualifier | MB MDL mg/l | MB RDL mg/l |
|---|---|---|---|---|
| Silver | ND | | 0.00280 | 0.00500 |
| Arsenic | ND | | 0.00650 | 0.0100 |
| Barium | ND | | 0.00170 | 0.00500 |
| Beryllium | ND | | 0.000700 | 0.00200 |
| Cadmium | ND | | 0.000700 | 0.00200 |
| Chromium | ND | | 0.00140 | 0.0100 |
| Copper | ND | | 0.00530 | 0.0100 |
| Nickel | ND | | 0.00490 | 0.0100 |
| Lead | ND | | 0.00190 | 0.00500 |
| Vanadium | ND | | 0.00240 | 0.0200 |
| Zinc | ND | | 0.00590 | 0.0500 |

## Laboratory Control Sample (LCS)

(LCS) R4309057-2 12/02/25 14:31

| Analyte | Spike Amount mg/l | LCS Result mg/l | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Silver | 0.200 | 0.201 | 101 | 80.0-120 | |
| Arsenic | 1.00 | 0.943 | 94.3 | 80.0-120 | |
| Barium | 1.00 | 0.987 | 98.7 | 80.0-120 | |
| Beryllium | 1.00 | 0.964 | 96.4 | 80.0-120 | |
| Cadmium | 1.00 | 0.945 | 94.5 | 80.0-120 | |
| Chromium | 1.00 | 0.976 | 97.6 | 80.0-120 | |
| Copper | 1.00 | 0.986 | 98.6 | 80.0-120 | |
| Nickel | 1.00 | 0.912 | 91.2 | 80.0-120 | |
| Lead | 1.00 | 0.924 | 92.4 | 80.0-120 | |
| Vanadium | 1.00 | 0.931 | 93.1 | 80.0-120 | |
| Zinc | 1.00 | 0.960 | 96.0 | 80.0-120 | |

## L1922849-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1922849-05 12/02/25 14:33 • (MS) R4309057-4 12/02/25 14:38 • (MSD) R4309057-5 12/02/25 14:40

| Analyte | Spike Amount mg/l | Original Result mg/l | MS Result mg/l | MSD Result mg/l | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Silver | 0.200 | ND | 0.203 | 0.205 | 102 | 103 | 1 | 75.0-125 | | | 0.993 | 20 |
| Arsenic | 1.00 | 0.0111 | 0.980 | 0.984 | 96.9 | 97.3 | 1 | 75.0-125 | | | 0.466 | 20 |
| Barium | 1.00 | 0.258 | 1.23 | 1.24 | 97.6 | 98.0 | 1 | 75.0-125 | | | 0.374 | 20 |
| Beryllium | 1.00 | ND | 0.991 | 0.974 | 99.1 | 97.4 | 1 | 75.0-125 | | | 1.66 | 20 |
| Cadmium | 1.00 | ND | 0.962 | 0.964 | 96.2 | 96.4 | 1 | 75.0-125 | | | 0.170 | 20 |

## L1922849-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1922849-05 12/02/25 14:33 • (MS) R4309057-4 12/02/25 14:38 • (MSD) R4309057-5 12/02/25 14:40

| Analyte | Spike Amount mg/l | Original Result mg/l | MS Result mg/l | MSD Result mg/l | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chromium | 1.00 | ND | 0.980 | 0.980 | 97.9 | 97.8 | 1 | 75.0-125 | | | 0.0630 | 20 |
| Copper | 1.00 | ND | 0.978 | 0.990 | 97.8 | 99.0 | 1 | 75.0-125 | | | 1.22 | 20 |
| Nickel | 1.00 | ND | 0.920 | 0.926 | 92.0 | 92.6 | 1 | 75.0-125 | | | 0.644 | 20 |
| Lead | 1.00 | ND | 0.940 | 0.945 | 94.0 | 94.5 | 1 | 75.0-125 | | | 0.543 | 20 |
| Vanadium | 1.00 | ND | 0.959 | 0.945 | 95.9 | 94.5 | 1 | 75.0-125 | | | 1.47 | 20 |
| Zinc | 1.00 | ND | 0.959 | 0.962 | 95.9 | 96.2 | 1 | 75.0-125 | | | 0.324 | 20 |

# QUALITY CONTROL SUMMARY

L1922859-01

## Method Blank (MB)

(MB) R4313125-7 12/11/25 21:39

| Analyte | MB Result mg/l | MB Qualifier | MB MDL mg/l | MB RDL mg/l |
|---|---|---|---|---|
| Cobalt | ND | | 0.000260 | 0.00200 |
| Antimony | ND | | 0.000754 | 0.00200 |
| Selenium | ND | | 0.000380 | 0.00200 |
| Thallium | 0.00183 | J | 0.000190 | 0.00200 |

## Laboratory Control Sample (LCS)

(LCS) R4313125-1 12/11/25 20:41

| Analyte | Spike Amount mg/l | LCS Result mg/l | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Cobalt | 0.0500 | 0.0521 | 104 | 80.0-120 | |
| Antimony | 0.0500 | 0.0493 | 98.5 | 80.0-120 | |
| Selenium | 0.0500 | 0.0499 | 99.9 | 80.0-120 | |
| Thallium | 0.0500 | 0.0496 | 99.1 | 80.0-120 | |

## L1922849-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1922849-05 12/11/25 20:45 • (MS) R4313125-3 12/11/25 20:51 • (MSD) R4313125-4 12/11/25 20:55

| Analyte | Spike Amount mg/l | Original Result mg/l | MS Result mg/l | MSD Result mg/l | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Cobalt | 0.0500 | ND | 0.0516 | 0.0516 | 101 | 101 | 1 | 75.0-125 | | | 0.0984 | 20 |
| Antimony | 0.0500 | ND | 0.0519 | 0.0517 | 104 | 103 | 1 | 75.0-125 | | | 0.433 | 20 |
| Selenium | 0.0500 | ND | 0.0505 | 0.0500 | 101 | 100 | 1 | 75.0-125 | | | 0.950 | 20 |
| Thallium | 0.0500 | ND | 0.0503 | 0.0506 | 101 | 101 | 1 | 75.0-125 | | | 0.513 | 20 |

## L1922900-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1922900-03 12/11/25 20:58 • (MS) R4313125-5 12/11/25 21:01 • (MSD) R4313125-6 12/11/25 21:05

| Analyte | Spike Amount mg/l | Original Result mg/l | MS Result mg/l | MSD Result mg/l | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Cobalt | 0.0500 | 0.00260 | 0.0518 | 0.0523 | 98.4 | 99.4 | 1 | 75.0-125 | | | 0.946 | 20 |
| Antimony | 0.0500 | ND | 0.0505 | 0.0503 | 101 | 101 | 1 | 75.0-125 | | | 0.343 | 20 |
| Selenium | 0.0500 | ND | 0.0486 | 0.0476 | 96.7 | 94.7 | 1 | 75.0-125 | | | 2.08 | 20 |
| Thallium | 0.0500 | ND | 0.0487 | 0.0504 | 97.4 | 101 | 1 | 75.0-125 | | | 3.40 | 20 |

## Method Blank (MB)

(MB) R4308134-2 12/01/25 11:22

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|---|---|---|---|---|
| 1,2,3-Trichloropropane | ND | | 0.00200 | 0.00500 |
| 1,2-Dibromo-3-Chloropropane | ND | | 0.000520 | 0.00500 |
| 1,2-Dibromoethane | ND | | 0.00410 | 0.00500 |

## Laboratory Control Sample (LCS)

(LCS) R4308134-1 12/01/25 10:40

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| 1,2,3-Trichloropropane | 0.0500 | 0.0580 | 116 | 70.0-130 | |
| 1,2-Dibromo-3-Chloropropane | 0.0500 | 0.0540 | 108 | 70.0-130 | |
| 1,2-Dibromoethane | 0.0500 | 0.0510 | 102 | 70.0-130 | |

## Method Blank (MB)

(MB) R4308656-3 12/01/25 10:58

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | | 0.0379 | 0.500 |
| 1,1,1-Trichloroethane | ND | | 0.0369 | 0.500 |
| 1,1,2,2-Tetrachloroethane | ND | | 0.0278 | 0.100 |
| 1,1,2-Trichloroethane | ND | | 0.0239 | 0.500 |
| 1,1-Dichloroethane | ND | | 0.0196 | 0.500 |
| 1,1-Dichloroethene | ND | | 0.0242 | 0.500 |
| 1,2-Dichlorobenzene | ND | | 0.0170 | 0.500 |
| 1,2-Dichloroethane | ND | | 0.0260 | 0.500 |
| 1,2-Dichloropropane | ND | | 0.0568 | 0.500 |
| 1,4-Dichlorobenzene | ND | | 0.0280 | 0.500 |
| 2-Butanone (MEK) | ND | | 2.54 | 5.00 |
| 2-Hexanone | ND | | 0.134 | 5.00 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 0.0912 | 5.00 |
| Acetone | ND | | 1.46 | 25.0 |
| Acrylonitrile | ND | | 0.144 | 0.500 |
| Benzene | ND | | 0.0187 | 0.500 |
| Bromochloromethane | ND | | 0.0226 | 0.500 |
| Bromodichloromethane | ND | | 0.0290 | 0.500 |
| Bromoform | ND | | 0.0468 | 1.00 |
| Bromomethane | ND | | 0.0788 | 2.50 |
| Carbon disulfide | ND | | 0.0280 | 0.500 |
| Carbon tetrachloride | ND | | 0.0359 | 0.500 |
| Chlorobenzene | ND | | 0.00840 | 0.500 |
| Chloroethane | ND | | 0.0680 | 2.50 |
| Chloroform | ND | | 0.0412 | 0.500 |
| Chloromethane | ND | | 0.174 | 1.25 |
| Dibromochloromethane | ND | | 0.0245 | 0.500 |
| Dibromomethane | ND | | 0.0300 | 0.500 |
| Ethylbenzene | ND | | 0.0295 | 0.500 |
| Iodomethane | ND | | 0.0928 | 5.00 |
| Methylene Chloride | ND | | 0.266 | 2.50 |
| Styrene | ND | | 0.00916 | 0.500 |
| Tetrachloroethene | ND | | 0.0358 | 0.500 |
| Toluene | ND | | 0.0520 | 0.500 |
| Trichloroethene | ND | | 0.0234 | 0.500 |
| Trichlorofluoromethane | ND | | 0.0331 | 2.50 |
| Vinyl acetate | ND | | 0.102 | 5.00 |
| Vinyl chloride | ND | | 0.0462 | 0.500 |
| Xylenes, Total | ND | | 0.0352 | 1.50 |
| cis-1,2-Dichloroethene | ND | | 0.0294 | 0.500 |

## Method Blank (MB)

(MB) R4308656-3 12/01/25 10:58

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|---|---|---|---|---|
| cis-1,3-Dichloropropene | ND | | 0.0303 | 0.500 |
| trans-1,2-Dichloroethene | ND | | 0.0416 | 0.500 |
| trans-1,3-Dichloropropene | ND | | 0.0456 | 0.500 |
| trans-1,4-Dichloro-2-butene | ND | | 0.0744 | 0.200 |
| *(S) 4-Bromofluorobenzene* | *93.6* | | | *67.0-138* |
| *(S) Toluene-d8* | *100* | | | *75.0-131* |
| *(S) 1,2-Dichloroethane-d4* | *112* | | | *70.0-130* |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4308656-1 12/01/25 09:17 • (LCSD) R4308656-2 12/01/25 09:37

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCSD Result ug/l | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 10.0 | 9.11 | 9.25 | 91.1 | 92.5 | 74.0-129 | | | 1.53 | 20 |
| 1,1,1-Trichloroethane | 10.0 | 9.90 | 10.7 | 99.0 | 107 | 69.0-126 | | | 7.77 | 20 |
| 1,1,2,2-Tetrachloroethane | 10.0 | 11.1 | 11.6 | 111 | 116 | 68.0-128 | | | 4.41 | 20 |
| 1,1,2-Trichloroethane | 10.0 | 9.79 | 10.4 | 97.9 | 104 | 78.0-123 | | | 6.04 | 20 |
| 1,1-Dichloroethane | 10.0 | 9.64 | 10.1 | 96.4 | 101 | 70.0-127 | | | 4.66 | 20 |
| 1,1-Dichloroethene | 10.0 | 9.71 | 10.3 | 97.1 | 103 | 65.0-131 | | | 5.90 | 20 |
| 1,2-Dichlorobenzene | 10.0 | 9.57 | 9.84 | 95.7 | 98.4 | 76.0-124 | | | 2.78 | 20 |
| 1,2-Dichloroethane | 10.0 | 10.4 | 11.0 | 104 | 110 | 65.0-131 | | | 5.61 | 20 |
| 1,2-Dichloropropane | 10.0 | 10.1 | 10.5 | 101 | 105 | 74.0-125 | | | 3.88 | 20 |
| 1,4-Dichlorobenzene | 10.0 | 9.09 | 9.17 | 90.9 | 91.7 | 77.0-121 | | | 0.876 | 20 |
| 2-Butanone (MEK) | 50.0 | 55.5 | 56.2 | 111 | 112 | 30.0-160 | | | 1.25 | 24 |
| 2-Hexanone | 50.0 | 51.6 | 54.9 | 103 | 110 | 54.0-147 | | | 6.20 | 20 |
| 4-Methyl-2-pentanone (MIBK) | 50.0 | 53.9 | 55.8 | 108 | 112 | 56.0-143 | | | 3.46 | 20 |
| Acetone | 50.0 | 61.5 | 66.4 | 123 | 133 | 10.0-160 | | | 7.66 | 31 |
| Acrylonitrile | 50.0 | 53.3 | 54.1 | 107 | 108 | 45.0-153 | | | 1.49 | 22 |
| Benzene | 10.0 | 9.02 | 9.64 | 90.2 | 96.4 | 70.0-123 | | | 6.65 | 20 |
| Bromochloromethane | 10.0 | 9.27 | 9.89 | 92.7 | 98.9 | 77.0-128 | | | 6.47 | 20 |
| Bromodichloromethane | 10.0 | 9.51 | 9.99 | 95.1 | 99.9 | 73.0-121 | | | 4.92 | 20 |
| Bromoform | 10.0 | 8.49 | 8.75 | 84.9 | 87.5 | 64.0-132 | | | 3.02 | 20 |
| Bromomethane | 10.0 | 13.7 | 14.7 | 137 | 147 | 56.0-147 | | | 7.04 | 20 |
| Carbon disulfide | 10.0 | 9.27 | 9.59 | 92.7 | 95.9 | 56.0-133 | | | 3.39 | 20 |
| Carbon tetrachloride | 10.0 | 10.1 | 10.6 | 101 | 106 | 66.0-128 | | | 4.83 | 20 |
| Chlorobenzene | 10.0 | 8.88 | 9.23 | 88.8 | 92.3 | 76.0-128 | | | 3.87 | 20 |
| Chloroethane | 10.0 | 11.6 | 12.2 | 116 | 122 | 61.0-134 | | | 5.04 | 20 |
| Chloroform | 10.0 | 9.41 | 9.89 | 94.1 | 98.9 | 72.0-123 | | | 4.97 | 20 |
| Chloromethane | 10.0 | 10.4 | 10.9 | 104 | 109 | 51.0-138 | | | 4.69 | 20 |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4308656-1 12/01/25 09:17 • (LCSD) R4308656-2 12/01/25 09:37

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCSD Result ug/l | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Dibromochloromethane | 10.0 | 9.51 | 9.55 | 95.1 | 95.5 | 74.0-127 | | | 0.420 | 20 |
| Dibromomethane | 10.0 | 10.5 | 10.7 | 105 | 107 | 75.0-122 | | | 1.89 | 20 |
| Ethylbenzene | 10.0 | 8.77 | 9.01 | 87.7 | 90.1 | 74.0-126 | | | 2.70 | 20 |
| Iodomethane | 50.0 | 52.7 | 54.5 | 105 | 109 | 74.0-134 | | | 3.36 | 20 |
| Methylene Chloride | 10.0 | 9.41 | 9.63 | 94.1 | 96.3 | 68.0-123 | | | 2.31 | 20 |
| Styrene | 10.0 | 8.61 | 8.91 | 86.1 | 89.1 | 72.0-127 | | | 3.42 | 20 |
| Tetrachloroethene | 10.0 | 8.39 | 9.11 | 83.9 | 91.1 | 70.0-136 | | | 8.23 | 20 |
| Toluene | 10.0 | 9.09 | 9.48 | 90.9 | 94.8 | 75.0-121 | | | 4.20 | 20 |
| Trichloroethene | 10.0 | 9.14 | 9.86 | 91.4 | 98.6 | 76.0-126 | | | 7.58 | 20 |
| Trichlorofluoromethane | 10.0 | 9.63 | 10.2 | 96.3 | 102 | 61.0-142 | | | 5.75 | 20 |
| Vinyl acetate | 50.0 | 56.9 | 57.8 | 114 | 116 | 43.0-159 | | | 1.57 | 20 |
| Vinyl chloride | 10.0 | 11.0 | 12.0 | 110 | 120 | 63.0-134 | | | 8.70 | 20 |
| Xylenes, Total | 30.0 | 24.0 | 24.9 | 80.0 | 83.0 | 72.0-127 | | | 3.68 | 20 |
| cis-1,2-Dichloroethene | 10.0 | 9.00 | 9.40 | 90.0 | 94.0 | 73.0-125 | | | 4.35 | 20 |
| cis-1,3-Dichloropropene | 10.0 | 9.90 | 10.1 | 99.0 | 101 | 76.0-127 | | | 2.00 | 20 |
| trans-1,2-Dichloroethene | 10.0 | 9.55 | 10.2 | 95.5 | 102 | 71.0-125 | | | 6.58 | 20 |
| trans-1,3-Dichloropropene | 10.0 | 10.0 | 10.3 | 100 | 103 | 73.0-127 | | | 2.96 | 20 |
| trans-1,4-Dichloro-2-butene | 10.0 | 14.3 | 11.5 | 143 | 115 | 45.0-143 | | J3 | 21.7 | 20 |
| *(S) 4-Bromofluorobenzene* | | | | *95.3* | *96.7* | *67.0-138* | | | | |
| *(S) Toluene-d8* | | | | *99.9* | *98.8* | *75.0-131* | | | | |
| *(S) 1,2-Dichloroethane-d4* | | | | *113* | *110* | *70.0-130* | | | | |

# GLOSSARY OF TERMS

## Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

## Abbreviations and Definitions

| | |
|---|---|
| MDL | Method Detection Limit. |
| ND | Not detected at the Reporting Limit (or MDL where applicable). |
| RDL | Reported Detection Limit. |
| Rec. | Recovery. |
| RPD | Relative Percent Difference. |
| SDG | Sample Delivery Group. |
| (S) | Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media. |
| Analyte | The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported. |
| Dilution | If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor. |
| Limits | These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges. |
| Original Sample | The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG. |
| Qualifier | This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable. |
| Result | The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte. |
| Uncertainty (Radiochemistry) | Confidence level of 2 sigma. |
| U (Radiochemistry) | Result + Error < MDA. |
| J (Radiochemistry) | Result < MDA; Result + Error > MDA. |
| Case Narrative (Cn) | A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report. |
| Quality Control Summary (Qc) | This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material. |
| Sample Chain of Custody (Sc) | This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis. |
| Sample Results (Sr) | This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported. |
| Sample Summary (Ss) | This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis. |

| Qualifier | Description |
|---|---|
| J | The identification of the analyte is acceptable; the reported value is an estimate. |
| J3 | The associated batch QC was outside the established quality control range for precision. |

# ACCREDITATIONS & LOCATIONS

## Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

| | | | |
|---|---|---|---|
| Alabama | 40660 | Nebraska | NE-OS-15-05 |
| Alaska | 17-026 | Nevada | TN000032021-1 |
| Arizona | AZ0612 | New Hampshire | 2975 |
| Arkansas | 88-0469 | New Jersey–NELAP | TN002 |
| California | 2932 | New Mexico [1] | TN00003 |
| Colorado | TN00003 | New York | 11742 |
| Connecticut | PH-0197 | North Carolina | Env375 |
| Florida | E87487 | North Carolina [1] | DW21704 |
| Georgia | NELAP | North Carolina [3] | 41 |
| Georgia [1] | 923 | North Dakota | R-140 |
| Idaho | TN00003 | Ohio–VAP | CL0069 |
| Illinois | 200008 | Oklahoma | 9915 |
| Indiana | C-TN-01 | Oregon | TN200002 |
| Iowa | 364 | Pennsylvania | 68-02979 |
| Kansas | E-10277 | Rhode Island | LAO000356 |
| Kentucky [1 6] | KY90010 | South Carolina | 84004002 |
| Kentucky [2] | 16 | South Dakota | n/a |
| Louisiana | AI30792 | Tennessee [1 4] | 2006 |
| Louisiana | LA018 | Texas | T104704245-20-18 |
| Maine | TN00003 | Texas [5] | LAB0152 |
| Maryland | 324 | Utah | TN000032021-11 |
| Massachusetts | M-TN003 | Vermont | VT2006 |
| Michigan | 9958 | Virginia | 110033 |
| Minnesota | 047-999-395 | Washington | C847 |
| Mississippi | TN00003 | West Virginia | 233 |
| Missouri | 340 | Wisconsin | 998093910 |
| Montana | CERT0086 | Wyoming | A2LA |
| A2LA – ISO 17025 | 1461.01 | AIHA-LAP,LLC EMLAP | 100789 |
| A2LA – ISO 17025 [5] | 1461.02 | DOD | 1461.01 |
| Canada | 1461.01 | USDA | P330-15-00234 |
| EPA–Crypto | TN00003 | | |

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

Company Name/Address:
**Dickinson Landfill**

**C/O Spruce Ridge 12755 137th Street**
**Glencoe, MN 55336**

Billing Information:
**Accounts Payable/ddemory@wm.com**
**PO Box 4745**
**Portland, OR 97208-4745**

Pres Chk

Report to:
**Andy McCain 320-864-5503**

Email To:
**ddemory@wm.com;cory.anderson2@stantec.co**

Project Description:
**Semiannual GW Detection (10-11)**

City/State Collected: **Milford / Iowa**

Please Circle: PT MT CT ET

Regulatory Program(DOD,RCRA,DW,etc):

Client Project #
**200**

Lab Project #
**WMDICIA-00004**

Collected by (print):
DF

Site/Facility ID #
**IA01**

P.O. #

Collected by (signature):
DF

Immediately Packed on Ice N ___ Y X

***Rush?*** (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day ___ STD TAT

Quote #

Date Results Needed

Analysis / Container / Preservative

| Sample ID | Comp/Grab | Matrix * | Depth | Date | Time | No. of Cntrs | Metals 250mlHDPE-HNO3 | TSS 1L-HDPE NoPres | V524LL 40mlAmb-HCl | V524LL 40mlAmb-HCl-Blk | V8260ULLC 40mlAmb-HCl | V8260ULLC 40mlAmb-HCl-Blk | Remarks | Sample # (lab only) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-34A | Grab | GW | | 11-24-25 | 1108 | 8 | X | X | X | | X | | | -01 |
| TRIP BLANK | | GW | | 1 | 800 | 4 | | | | X | | X | | -02 |

Chain of Custody Page ___ of ___

Pace
PEOPLE ADVANCING SCIENCE

**MT JULIET, TN**

12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # 1922859

**F207**

Acctnum: **WMDICIA**
Template: **T283078**
Prelogin: **P1185723**
PM: **3564 - Chad A Upchurch**
PB: 11/24/25
Shipped Via: **FedEX Ground**

* Matrix:
**SS** - Soil **AIR** - Air **F** - Filter
**GW** - Groundwater **B** - Bioassay
**WW** - WasteWater
**DW** - Drinking Water
**OT** - Other_____

**Remarks:**

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking # 7920 0222 9800

Sample Receipt Checklist
COC Seal Present/Intact: __NP Y __N
COC Signed/Accurate: Y __N
Bottles arrive intact: Y __N
Correct bottles used: Y __N
Sufficient volume sent: Y __N
If Applicable
VOA Zero Headspace: __Y __N
Preservation Correct/Checked: __Y __N
RAD Screen <0.5 mR/hr: Y __N

| Relinquished by : (Signature) | Date: | Time: | Received by: (Signature) | Trip Blank Received: Yes / No HCL / MeoH TBR |
|---|---|---|---|---|
| DF | 11-24-25 | 1345 | | |
| Relinquished by : (Signature) | Date: | Time: | Received by: (Signature) | Temp: °C Bottles Received: |
| | | | | 5 8 |
| Relinquished by : (Signature) | Date: | Time: | Received for lab by: (Signature) | Date: Time: |
| | | | | 11/26/25 9:30 |

If preservation required by Login: Date/Time

Hold: Condition: NCF / OK

# FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: Dickinson SLF

Site No.: —

Sample Point: MW-34A (Sample ID)

**This Waste Management Field Information Form is Required**
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID: L1922859

## PURGE INFO

| PURGE DATE (MM DD YY) | PURGE TIME (2400 Hr Clock) | ELAPSED HRS (hrs:min) | WATER VOL IN CASING (Gallons) | ACTUAL VOL PURGED (Gallons) | WELL VOLs PURGED |
|---|---|---|---|---|---|
| 11 24 25 | 11:00 | :08 | 1.2 | 1.2 | 1.0 |

*Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.*

## PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment … Dedicated: (Y) or N

Filter Device: Y or (N) 0.45 µ or _____ µ (circle or fill in)

Purging Device: C — A- Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device: C

X-Other: _____

Filter Type: — A-In-line Disposable, B-Pressure, C-Vacuum, X-Other _____

Sample Tube Type: D — A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other: _____

## WELL DATA

Well Elevation (at TOC): _____ (ft/msl)

Depth to Water (DTW) (from TOC): 21.65 (ft)

Groundwater Elevation (site datum, from TOC): _____ (ft/msl)

Total Well Depth (from TOC): 28.89 (ft)

Stick Up (from ground elevation): _____ (ft)

Casing ID: 2 (in)

Casing Material: PVC

*Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.*

## STABILIZATION DATA (Optional)

1.2

| Sample Time (2400 Hr Clock) | Rate/Unit | pH (std) | Conductance (SC/EC) (µmhos/cm @ 25 °C) | Temp. (°C) | Turbidity (ntu) | D.O. (mg/L - ppm) | eH/ORP (mV) | DTW (ft) |
|---|---|---|---|---|---|---|---|---|
| 11:03 | 0.4 1st | 6.66 1st | 1497 1st | 13.0 | 25 | 2.7 | -160.0 | Below Pump |
| 11:08 | 0.4 4th | 4th | 4th | | | | | Below Pump |
| Suggested range for 3 consec. readings or note Permit/State requirements: | | +/- 0.2 | +/- 3% | -- | -- | +/- 10% | +/- 25 mV | Stabilize |

Pump 11-24-25 DF

**Stabilization Data Fields are Optional** *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form*

## FIELD DATA

| SAMPLE DATE (MM DD YY) | pH (std) | CONDUCTANCE (umhos/cm @ 25°C) | TEMP. (°C) | TURBIDITY (ntu) | DO (mg/L-ppm) | eH/ORP (mV) | Other: Units |
|---|---|---|---|---|---|---|---|
| 11 24 25 | 6.66 | 1497 | 130 | 25 | 2.7 | -160.0 | — |

**Final Field Readings are required** *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

**Sample Appearance:** Clear — Odor: Sulfurous — Color: None — Other: Lt. Sed.

**Weather Conditions** (required daily, or as conditions change): Direction/Speed: ~~48/Cloudy~~ SW/8 — Outlook: 48/Cloudy — Precipitation: Y or (N)

**Specific Comments (including purge/well volume calculations if required):**

## FIELD COMMENTS

- Insufficient volume for recharge reading 11-24-25 DF
- Walk access only, limited room around well on top of hill for equipment

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

| Date | Name | Signature | Company |
|---|---|---|---|
| 11/24/25 | DF | DF | MVTL |
| / / | | | |

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client

ORIGINAL COPY

# ANALYTICAL REPORT

November 19, 2025



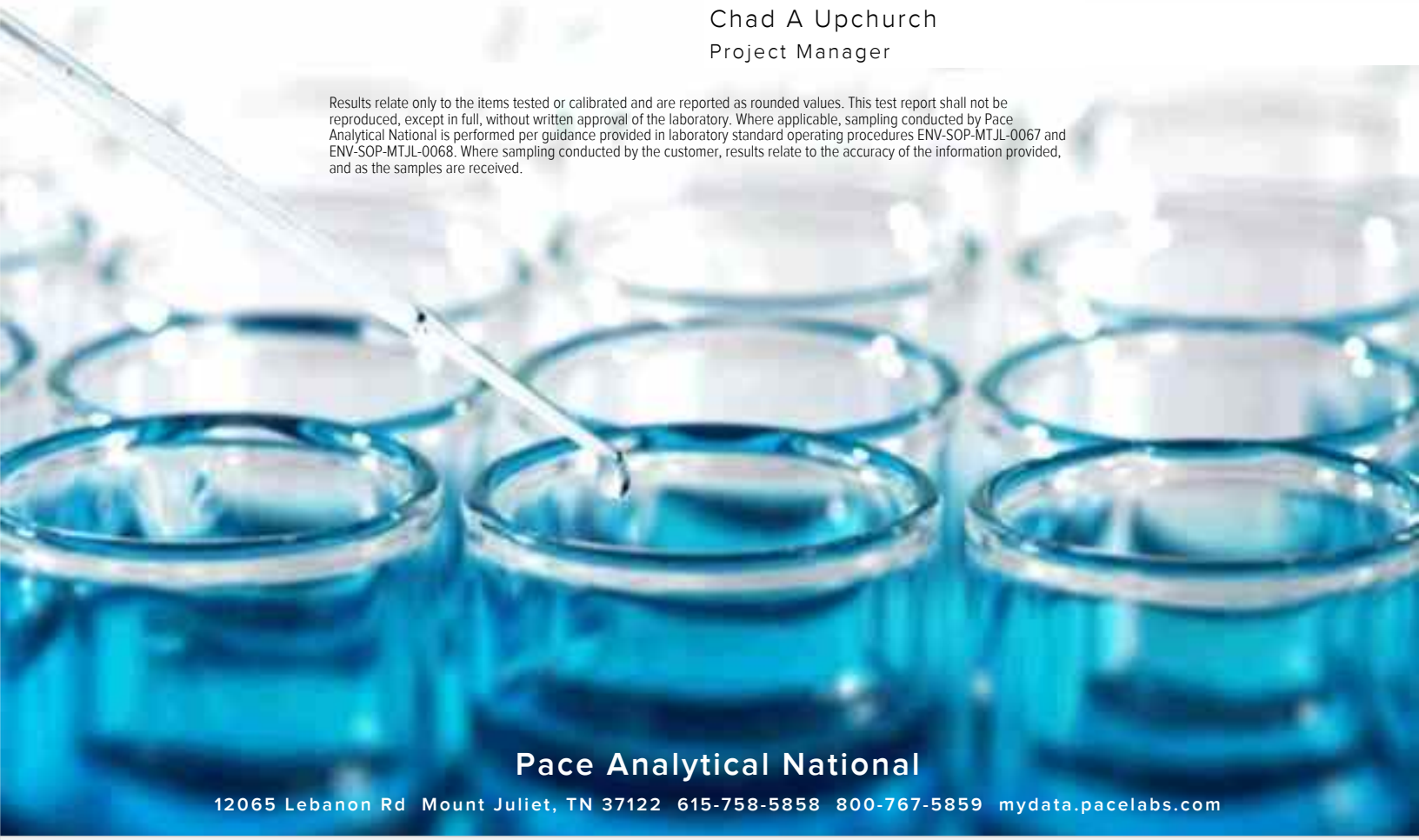
## Dickinson Landfill

| | |
|---|---|
| Sample Delivery Group: | L1908198 |
| Samples Received: | 10/15/2025 |
| Project Number: | 200 |
| Description: | MW-41A Background |
| Site: | IA01 |
| Report To: | Andy McCain<br>C/O Spruce Ridge 12755 137th Street<br>Glencoe, MN 55336 |

Entire Report Reviewed By:

Chad A Upchurch
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



Pace Analytical National
12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 mydata.pacelabs.com

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# SAMPLE SUMMARY

## MW-41A L1908198-01

Collected by: Dylan S.
Collected date/time: 10/14/25 12:36
Received date/time: 10/15/25 09:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Gravimetric Analysis by Method 2540 D-2011 | WG2622113 | 1 | 10/17/25 12:59 | 10/17/25 14:48 | AMG | Mt. Juliet, TN |
| Metals (ICP) by Method 6010C | WG2621405 | 1 | 10/16/25 10:37 | 10/16/25 15:01 | NMM | Mt. Juliet, TN |
| Metals (ICPMS) by Method 6020A | WG2621503 | 1 | 10/16/25 19:24 | 11/19/25 14:06 | UNP | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG2621481 | 1 | 10/20/25 16:29 | 10/20/25 16:29 | BRA | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG2623434 | 1 | 10/19/25 16:34 | 10/19/25 16:34 | ACG | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG2624059 | 1 | 10/21/25 11:28 | 10/21/25 11:28 | WHS | Mt. Juliet, TN |

## TRIP BLANK L1908198-02

Collected by: Dylan S.
Collected date/time: 10/14/25 00:00
Received date/time: 10/15/25 09:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG2621481 | 1 | 10/20/25 11:54 | 10/20/25 11:54 | BRA | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG2623434 | 1 | 10/19/25 11:48 | 10/19/25 11:48 | ACG | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG2624059 | 1 | 10/21/25 11:08 | 10/21/25 11:08 | WHS | Mt. Juliet, TN |

Unless qualified or notated within the narrative below, all sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Chad A Upchurch
Project Manager

## Project Comments

The requested project specific reporting limits may be less than laboratory standard quantitation limits (PQL) but will be greater than or equal to the laboratory method detection limits (MDL). It is noted that results reported below lab standard quantitation limits (PQLs) may result in false positive/false negative values that may require additional laboratory quality assurance review, if requested. Routine laboratory procedures do not initiate a data review process for detections below the laboratory's PQL unless requested by the client.

## Gravimetric Analysis by Method 2540 D-2011

RPD value not applicable for sample concentrations less than 5 times the reporting limit.

| Batch | Lab Sample ID | Analytes |
|---|---|---|
| WG2622113 | (DUP) R4289114-3 | Suspended Solids |

## Volatile Organic Compounds (GC/MS) by Method 8260C

The reported concentration is an estimate. The continuing calibration standard associated with this data responded low. Method sensitivity check is acceptable.

| Batch | Lab Sample ID | Analytes |
|---|---|---|
| WG2623434 | L1908198-01 | Dibromochloromethane and trans-1,4-Dichloro-2-butene |
| WG2623434 | L1908198-02 | Dibromochloromethane and trans-1,4-Dichloro-2-butene |

## Additional Information - Results for field analyses are not accredited to ISO 17025

| Analyte | Result | Units |
|---|---|---|
| Depth to water (DTW) (FROM TOC) | 29.45 | ftmsl |
| pH (On Site) | 7.23 | su |
| Specific Conductance (on site) | 1065 | umhos/cm |
| Temperature (on-site) | 10.5 | Deg. C |
| Turbidity (on-site) | 77.7 | NTU |
| Dissolved Oxygen (on-site) | 3.9 | mg/l |
| eH/ORP ( On Site ) | 77 | mV |

## Gravimetric Analysis by Method 2540 D-2011

| Analyte | Result | Qualifier | RL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|
| | mg/l | | mg/l | | date / time | |
| Suspended Solids | 128 | | 2.50 | 1 | 10/17/2025 14:48 | WG2622113 |

## Metals (ICP) by Method 6010C

| Analyte | Result | Qualifier | RL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|
| | mg/l | | mg/l | | date / time | |
| Silver | ND | | 0.0100 | 1 | 10/16/2025 15:01 | WG2621405 |
| Arsenic | ND | | 0.0100 | 1 | 10/16/2025 15:01 | WG2621405 |
| Barium | 0.0912 | | 0.0200 | 1 | 10/16/2025 15:01 | WG2621405 |
| Beryllium | ND | | 0.00400 | 1 | 10/16/2025 15:01 | WG2621405 |
| Cadmium | ND | | 0.00500 | 1 | 10/16/2025 15:01 | WG2621405 |
| Chromium | ND | | 0.0100 | 1 | 10/16/2025 15:01 | WG2621405 |
| Copper | ND | | 0.0100 | 1 | 10/16/2025 15:01 | WG2621405 |
| Nickel | ND | | 0.0100 | 1 | 10/16/2025 15:01 | WG2621405 |
| Lead | ND | | 0.0100 | 1 | 10/16/2025 15:01 | WG2621405 |
| Vanadium | ND | | 0.0200 | 1 | 10/16/2025 15:01 | WG2621405 |
| Zinc | ND | | 0.0500 | 1 | 10/16/2025 15:01 | WG2621405 |

## Metals (ICPMS) by Method 6020A

| Analyte | Result | Qualifier | RL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|
| | mg/l | | mg/l | | date / time | |
| Cobalt | ND | | 0.00200 | 1 | 11/19/2025 14:06 | WG2621503 |
| Antimony | ND | | 0.00600 | 1 | 11/19/2025 14:06 | WG2621503 |
| Selenium | ND | | 0.0100 | 1 | 11/19/2025 14:06 | WG2621503 |
| Thallium | ND | | 0.00200 | 1 | 11/19/2025 14:06 | WG2621503 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result | Qualifier | RL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|
| | ug/l | | ug/l | | date / time | |
| 1,1,1,2-Tetrachloroethane | ND | | 1.00 | 1 | 10/19/2025 16:34 | WG2623434 |
| 1,2,3-Trichloropropane | ND | | 0.00580 | 1 | 10/20/2025 16:29 | WG2621481 |
| 1,1,1-Trichloroethane | ND | | 1.00 | 1 | 10/19/2025 16:34 | WG2623434 |
| 1,2-Dibromo-3-Chloropropane | ND | | 0.200 | 1 | 10/20/2025 16:29 | WG2621481 |
| 1,1,2,2-Tetrachloroethane | ND | | 0.300 | 1 | 10/19/2025 16:34 | WG2623434 |
| 1,2-Dibromoethane | ND | | 0.0500 | 1 | 10/20/2025 16:29 | WG2621481 |
| 1,1,2-Trichloroethane | ND | | 1.00 | 1 | 10/19/2025 16:34 | WG2623434 |
| 1,1-Dichloroethane | ND | | 1.00 | 1 | 10/19/2025 16:34 | WG2623434 |
| 1,1-Dichloroethene | ND | | 1.00 | 1 | 10/19/2025 16:34 | WG2623434 |
| 1,2-Dichlorobenzene | ND | | 1.00 | 1 | 10/19/2025 16:34 | WG2623434 |
| 1,2-Dichloroethane | ND | | 1.00 | 1 | 10/19/2025 16:34 | WG2623434 |
| 1,2-Dichloropropane | ND | | 1.00 | 1 | 10/19/2025 16:34 | WG2623434 |
| 1,4-Dichlorobenzene | ND | | 1.00 | 1 | 10/19/2025 16:34 | WG2623434 |
| 2-Butanone (MEK) | ND | | 10.0 | 1 | 10/19/2025 16:34 | WG2623434 |
| 2-Hexanone | ND | | 5.00 | 1 | 10/19/2025 16:34 | WG2623434 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result ug/l | Qualifier | RL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.00 | 1 | 10/19/2025 16:34 | WG2623434 |
| Acetone | ND | | 25.0 | 1 | 10/19/2025 16:34 | WG2623434 |
| Acrylonitrile | ND | | 0.320 | 1 | 10/19/2025 16:34 | WG2623434 |
| Benzene | ND | | 1.00 | 1 | 10/19/2025 16:34 | WG2623434 |
| Bromochloromethane | ND | | 1.00 | 1 | 10/19/2025 16:34 | WG2623434 |
| Bromodichloromethane | ND | | 1.00 | 1 | 10/19/2025 16:34 | WG2623434 |
| Bromoform | ND | | 1.00 | 1 | 10/19/2025 16:34 | WG2623434 |
| Bromomethane | ND | | 2.50 | 1 | 10/19/2025 16:34 | WG2623434 |
| Carbon disulfide | ND | | 1.00 | 1 | 10/19/2025 16:34 | WG2623434 |
| Carbon tetrachloride | ND | | 1.00 | 1 | 10/19/2025 16:34 | WG2623434 |
| Chlorobenzene | ND | | 1.00 | 1 | 10/19/2025 16:34 | WG2623434 |
| Chloroethane | ND | | 2.50 | 1 | 10/19/2025 16:34 | WG2623434 |
| Chloroform | ND | | 1.00 | 1 | 10/19/2025 16:34 | WG2623434 |
| Chloromethane | ND | | 1.25 | 1 | 10/19/2025 16:34 | WG2623434 |
| Dibromochloromethane | ND | C3 | 1.00 | 1 | 10/19/2025 16:34 | WG2623434 |
| Dibromomethane | ND | | 1.00 | 1 | 10/19/2025 16:34 | WG2623434 |
| Ethylbenzene | ND | | 1.00 | 1 | 10/19/2025 16:34 | WG2623434 |
| Iodomethane | ND | | 10.0 | 1 | 10/19/2025 16:34 | WG2623434 |
| Methylene Chloride | ND | | 2.50 | 1 | 10/19/2025 16:34 | WG2623434 |
| Styrene | ND | | 1.00 | 1 | 10/19/2025 16:34 | WG2623434 |
| Tetrachloroethene | ND | | 1.00 | 1 | 10/19/2025 16:34 | WG2623434 |
| Toluene | ND | | 1.00 | 1 | 10/19/2025 16:34 | WG2623434 |
| Trichloroethene | ND | | 1.00 | 1 | 10/19/2025 16:34 | WG2623434 |
| Trichlorofluoromethane | ND | | 2.50 | 1 | 10/19/2025 16:34 | WG2623434 |
| Vinyl acetate | ND | | 5.00 | 1 | 10/19/2025 16:34 | WG2623434 |
| Vinyl chloride | ND | | 1.00 | 1 | 10/21/2025 11:28 | WG2624059 |
| Xylenes, Total | ND | | 3.00 | 1 | 10/19/2025 16:34 | WG2623434 |
| cis-1,2-Dichloroethene | ND | | 1.00 | 1 | 10/19/2025 16:34 | WG2623434 |
| cis-1,3-Dichloropropene | ND | | 1.00 | 1 | 10/19/2025 16:34 | WG2623434 |
| trans-1,2-Dichloroethene | ND | | 1.00 | 1 | 10/19/2025 16:34 | WG2623434 |
| trans-1,3-Dichloropropene | ND | | 1.00 | 1 | 10/19/2025 16:34 | WG2623434 |
| trans-1,4-Dichloro-2-butene | ND | C3 | 1.00 | 1 | 10/19/2025 16:34 | WG2623434 |
| *(S) 1,2-Dichloroethane-d4* | *99.9* | | | *70.0-130* | *10/19/2025 16:34* | WG2623434 |
| *(S) 1,2-Dichloroethane-d4* | *97.9* | | | *70.0-130* | *10/21/2025 11:28* | WG2624059 |
| *(S) Toluene-d8* | *95.4* | | | *75.0-131* | *10/19/2025 16:34* | WG2623434 |
| *(S) Toluene-d8* | *99.2* | | | *75.0-131* | *10/21/2025 11:28* | WG2624059 |
| *(S) 4-Bromofluorobenzene* | *99.4* | | | *67.0-138* | *10/19/2025 16:34* | WG2623434 |
| *(S) 4-Bromofluorobenzene* | *97.4* | | | *67.0-138* | *10/21/2025 11:28* | WG2624059 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result | Qualifier | RL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|
| | ug/l | | ug/l | | date / time | |
| 1,1,1,2-Tetrachloroethane | ND | | 1.00 | 1 | 10/19/2025 11:48 | WG2623434 |
| 1,2,3-Trichloropropane | ND | | 0.00580 | 1 | 10/20/2025 11:54 | WG2621481 |
| 1,1,1-Trichloroethane | ND | | 1.00 | 1 | 10/19/2025 11:48 | WG2623434 |
| 1,2-Dibromo-3-Chloropropane | ND | | 0.200 | 1 | 10/20/2025 11:54 | WG2621481 |
| 1,1,2,2-Tetrachloroethane | ND | | 0.300 | 1 | 10/19/2025 11:48 | WG2623434 |
| 1,2-Dibromoethane | ND | | 0.0500 | 1 | 10/20/2025 11:54 | WG2621481 |
| 1,1,2-Trichloroethane | ND | | 1.00 | 1 | 10/19/2025 11:48 | WG2623434 |
| 1,1-Dichloroethane | ND | | 1.00 | 1 | 10/19/2025 11:48 | WG2623434 |
| 1,1-Dichloroethene | ND | | 1.00 | 1 | 10/19/2025 11:48 | WG2623434 |
| 1,2-Dichlorobenzene | ND | | 1.00 | 1 | 10/19/2025 11:48 | WG2623434 |
| 1,2-Dichloroethane | ND | | 1.00 | 1 | 10/19/2025 11:48 | WG2623434 |
| 1,2-Dichloropropane | ND | | 1.00 | 1 | 10/19/2025 11:48 | WG2623434 |
| 1,4-Dichlorobenzene | ND | | 1.00 | 1 | 10/19/2025 11:48 | WG2623434 |
| 2-Butanone (MEK) | ND | | 10.0 | 1 | 10/19/2025 11:48 | WG2623434 |
| 2-Hexanone | ND | | 5.00 | 1 | 10/19/2025 11:48 | WG2623434 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.00 | 1 | 10/19/2025 11:48 | WG2623434 |
| Acetone | ND | | 25.0 | 1 | 10/19/2025 11:48 | WG2623434 |
| Acrylonitrile | ND | | 0.320 | 1 | 10/19/2025 11:48 | WG2623434 |
| Benzene | ND | | 1.00 | 1 | 10/19/2025 11:48 | WG2623434 |
| Bromochloromethane | ND | | 1.00 | 1 | 10/19/2025 11:48 | WG2623434 |
| Bromodichloromethane | ND | | 1.00 | 1 | 10/19/2025 11:48 | WG2623434 |
| Bromoform | ND | | 1.00 | 1 | 10/19/2025 11:48 | WG2623434 |
| Bromomethane | ND | | 2.50 | 1 | 10/19/2025 11:48 | WG2623434 |
| Carbon disulfide | ND | | 1.00 | 1 | 10/19/2025 11:48 | WG2623434 |
| Carbon tetrachloride | ND | | 1.00 | 1 | 10/19/2025 11:48 | WG2623434 |
| Chlorobenzene | ND | | 1.00 | 1 | 10/19/2025 11:48 | WG2623434 |
| Chloroethane | ND | | 2.50 | 1 | 10/19/2025 11:48 | WG2623434 |
| Chloroform | ND | | 1.00 | 1 | 10/19/2025 11:48 | WG2623434 |
| Chloromethane | ND | | 1.25 | 1 | 10/19/2025 11:48 | WG2623434 |
| Dibromochloromethane | ND | C3 | 1.00 | 1 | 10/19/2025 11:48 | WG2623434 |
| Dibromomethane | ND | | 1.00 | 1 | 10/19/2025 11:48 | WG2623434 |
| Ethylbenzene | ND | | 1.00 | 1 | 10/19/2025 11:48 | WG2623434 |
| Iodomethane | ND | | 10.0 | 1 | 10/19/2025 11:48 | WG2623434 |
| Methylene Chloride | ND | | 2.50 | 1 | 10/19/2025 11:48 | WG2623434 |
| Styrene | ND | | 1.00 | 1 | 10/19/2025 11:48 | WG2623434 |
| Tetrachloroethene | ND | | 1.00 | 1 | 10/19/2025 11:48 | WG2623434 |
| Toluene | ND | | 1.00 | 1 | 10/19/2025 11:48 | WG2623434 |
| Trichloroethene | ND | | 1.00 | 1 | 10/19/2025 11:48 | WG2623434 |
| Trichlorofluoromethane | ND | | 2.50 | 1 | 10/19/2025 11:48 | WG2623434 |
| Vinyl acetate | ND | | 5.00 | 1 | 10/19/2025 11:48 | WG2623434 |
| Vinyl chloride | ND | | 1.00 | 1 | 10/21/2025 11:08 | WG2624059 |
| Xylenes, Total | ND | | 3.00 | 1 | 10/19/2025 11:48 | WG2623434 |
| cis-1,2-Dichloroethene | ND | | 1.00 | 1 | 10/19/2025 11:48 | WG2623434 |
| cis-1,3-Dichloropropene | ND | | 1.00 | 1 | 10/19/2025 11:48 | WG2623434 |
| trans-1,2-Dichloroethene | ND | | 1.00 | 1 | 10/19/2025 11:48 | WG2623434 |
| trans-1,3-Dichloropropene | ND | | 1.00 | 1 | 10/19/2025 11:48 | WG2623434 |
| trans-1,4-Dichloro-2-butene | ND | C3 | 1.00 | 1 | 10/19/2025 11:48 | WG2623434 |
| *(S) 1,2-Dichloroethane-d4* | *98.6* | | | *70.0-130* | *10/19/2025 11:48* | WG2623434 |
| *(S) 1,2-Dichloroethane-d4* | *97.6* | | | *70.0-130* | *10/21/2025 11:08* | WG2624059 |
| *(S) Toluene-d8* | *97.0* | | | *75.0-131* | *10/19/2025 11:48* | WG2623434 |
| *(S) Toluene-d8* | *101* | | | *75.0-131* | *10/21/2025 11:08* | WG2624059 |
| *(S) 4-Bromofluorobenzene* | *102* | | | *67.0-138* | *10/19/2025 11:48* | WG2623434 |
| *(S) 4-Bromofluorobenzene* | *99.8* | | | *67.0-138* | *10/21/2025 11:08* | WG2624059 |

## Method Blank (MB)

(MB) R4289114-1 10/17/25 14:48

| Analyte | MB Result mg/l | MB Qualifier | MB MDL mg/l | MB RDL mg/l |
|---|---|---|---|---|
| Suspended Solids | ND | | 0.350 | 2.50 |

## L1908114-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1908114-01 10/17/25 14:48 • (DUP) R4289114-3 10/17/25 14:48

| Analyte | Original Result mg/l | DUP Result mg/l | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|---|---|---|---|---|---|---|
| Suspended Solids | 19.6 | 23.2 | 1 | 16.8 | P1 | 10 |

## L1908217-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1908217-01 10/17/25 14:48 • (DUP) R4289114-4 10/17/25 14:48

| Analyte | Original Result mg/l | DUP Result mg/l | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|---|---|---|---|---|---|---|
| Suspended Solids | 16.3 | 15.0 | 1 | 8.49 | | 10 |

## Laboratory Control Sample (LCS)

(LCS) R4289114-2 10/17/25 14:48

| Analyte | Spike Amount mg/l | LCS Result mg/l | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Suspended Solids | 773 | 662 | 85.6 | 85.0-115 | |

## Method Blank (MB)

(MB) R4288277-1 10/16/25 13:59

| Analyte | MB Result mg/l | MB Qualifier | MB MDL mg/l | MB RDL mg/l |
|---|---|---|---|---|
| Silver | ND | | 0.00280 | 0.00500 |
| Arsenic | ND | | 0.00650 | 0.0100 |
| Barium | ND | | 0.00170 | 0.00500 |
| Beryllium | ND | | 0.000700 | 0.00200 |
| Cadmium | ND | | 0.000700 | 0.00200 |
| Chromium | ND | | 0.00140 | 0.0100 |
| Copper | ND | | 0.00530 | 0.0100 |
| Nickel | ND | | 0.00490 | 0.0100 |
| Lead | ND | | 0.00190 | 0.00500 |
| Vanadium | ND | | 0.00240 | 0.0200 |
| Zinc | ND | | 0.00590 | 0.0500 |

## Laboratory Control Sample (LCS)

(LCS) R4288277-2 10/16/25 14:01

| Analyte | Spike Amount mg/l | LCS Result mg/l | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Silver | 0.200 | 0.211 | 106 | 80.0-120 | |
| Arsenic | 1.00 | 0.997 | 99.7 | 80.0-120 | |
| Barium | 1.00 | 1.04 | 104 | 80.0-120 | |
| Beryllium | 1.00 | 1.03 | 103 | 80.0-120 | |
| Cadmium | 1.00 | 0.991 | 99.1 | 80.0-120 | |
| Chromium | 1.00 | 1.04 | 104 | 80.0-120 | |
| Copper | 1.00 | 1.04 | 104 | 80.0-120 | |
| Nickel | 1.00 | 0.967 | 96.7 | 80.0-120 | |
| Lead | 1.00 | 0.991 | 99.1 | 80.0-120 | |
| Vanadium | 1.00 | 1.00 | 100 | 80.0-120 | |
| Zinc | 1.00 | 1.03 | 103 | 80.0-120 | |

## L1908076-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1908076-01 10/16/25 14:03 • (MS) R4288277-4 10/16/25 14:08 • (MSD) R4288277-5 10/16/25 14:10

| Analyte | Spike Amount mg/l | Original Result mg/l | MS Result mg/l | MSD Result mg/l | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Silver | 0.200 | ND | 0.207 | 0.199 | 104 | 99.6 | 1 | 75.0-125 | | | 3.92 | 20 |
| Arsenic | 1.00 | ND | 0.980 | 0.976 | 98.0 | 97.6 | 1 | 75.0-125 | | | 0.355 | 20 |
| Barium | 1.00 | ND | 1.02 | 1.02 | 102 | 102 | 1 | 75.0-125 | | | 0.362 | 20 |
| Beryllium | 1.00 | ND | 1.00 | 1.00 | 100 | 100 | 1 | 75.0-125 | | | 0.240 | 20 |
| Cadmium | 1.00 | ND | 0.976 | 0.971 | 97.6 | 97.1 | 1 | 75.0-125 | | | 0.486 | 20 |

## L1908076-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1908076-01 10/16/25 14:03 • (MS) R4288277-4 10/16/25 14:08 • (MSD) R4288277-5 10/16/25 14:10

| Analyte | Spike Amount mg/l | Original Result mg/l | MS Result mg/l | MSD Result mg/l | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chromium | 1.00 | ND | 1.03 | 1.03 | 103 | 103 | 1 | 75.0-125 | | | 0.0560 | 20 |
| Copper | 1.00 | ND | 1.02 | 1.03 | 101 | 102 | 1 | 75.0-125 | | | 0.759 | 20 |
| Nickel | 1.00 | ND | 0.951 | 0.949 | 95.1 | 94.9 | 1 | 75.0-125 | | | 0.258 | 20 |
| Lead | 1.00 | ND | 0.973 | 0.973 | 97.3 | 97.3 | 1 | 75.0-125 | | | 0.0497 | 20 |
| Vanadium | 1.00 | ND | 0.972 | 0.980 | 97.2 | 98.0 | 1 | 75.0-125 | | | 0.869 | 20 |
| Zinc | 1.00 | ND | 1.01 | 1.02 | 101 | 101 | 1 | 75.0-125 | | | 0.123 | 20 |

## Method Blank (MB)

(MB) R4303162-1 11/19/25 12:03

| Analyte | MB Result mg/l | MB Qualifier | MB MDL mg/l | MB RDL mg/l |
|---|---|---|---|---|
| Cobalt | ND | | 0.000260 | 0.00200 |
| Antimony | ND | | 0.000754 | 0.00200 |
| Selenium | ND | | 0.000380 | 0.00200 |
| Thallium | ND | | 0.000190 | 0.00200 |

## Laboratory Control Sample (LCS)

(LCS) R4303162-2 11/19/25 12:06

| Analyte | Spike Amount mg/l | LCS Result mg/l | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Cobalt | 0.0500 | 0.0532 | 106 | 80.0-120 | |
| Antimony | 0.0500 | 0.0544 | 109 | 80.0-120 | |
| Selenium | 0.0500 | 0.0523 | 105 | 80.0-120 | |
| Thallium | 0.0500 | 0.0552 | 110 | 80.0-120 | |

## L1908127-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1908127-01 11/19/25 12:21 • (MS) R4303162-4 11/19/25 12:24 • (MSD) R4303162-5 11/19/25 12:28

| Analyte | Spike Amount mg/l | Original Result mg/l | MS Result mg/l | MSD Result mg/l | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Cobalt | 0.0500 | 0.00208 | 0.0542 | 0.0541 | 104 | 104 | 1 | 75.0-125 | | | 0.201 | 20 |
| Antimony | 0.0500 | ND | 0.0586 | 0.0586 | 115 | 115 | 1 | 75.0-125 | | | 0.00314 | 20 |
| Selenium | 0.0500 | ND | 0.0532 | 0.0524 | 106 | 105 | 1 | 75.0-125 | | | 1.53 | 20 |
| Thallium | 0.0500 | ND | 0.0536 | 0.0551 | 107 | 110 | 1 | 75.0-125 | | | 2.71 | 20 |

## Method Blank (MB)

(MB) R4289725-2 10/20/25 11:11

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|---|---|---|---|---|
| 1,2,3-Trichloropropane | ND | | 0.00200 | 0.00500 |
| 1,2-Dibromo-3-Chloropropane | ND | | 0.000520 | 0.00500 |
| 1,2-Dibromoethane | ND | | 0.00410 | 0.00500 |

## Laboratory Control Sample (LCS)

(LCS) R4289725-1 10/20/25 10:50

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| 1,2,3-Trichloropropane | 0.0500 | 0.0500 | 100 | 70.0-130 | |
| 1,2-Dibromo-3-Chloropropane | 0.0500 | 0.0460 | 92.0 | 70.0-130 | |
| 1,2-Dibromoethane | 0.0500 | 0.0530 | 106 | 70.0-130 | |

## Method Blank (MB)

(MB) R4289599-3 10/19/25 10:44

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | | 0.0379 | 0.100 |
| 1,1,1-Trichloroethane | ND | | 0.0369 | 0.100 |
| 1,1,2,2-Tetrachloroethane | ND | | 0.0278 | 0.100 |
| 1,1,2-Trichloroethane | ND | | 0.0239 | 0.100 |
| 1,1-Dichloroethane | ND | | 0.0196 | 0.100 |
| 1,1-Dichloroethene | ND | | 0.0242 | 0.100 |
| 1,2-Dichlorobenzene | ND | | 0.0170 | 0.200 |
| 1,2-Dichloroethane | ND | | 0.0260 | 0.100 |
| 1,2-Dichloropropane | ND | | 0.0568 | 0.200 |
| 1,4-Dichlorobenzene | ND | | 0.0280 | 0.200 |
| 2-Butanone (MEK) | ND | | 2.54 | 4.00 |
| 2-Hexanone | ND | | 0.134 | 1.00 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 0.0912 | 1.00 |
| Acetone | ND | | 1.46 | 2.00 |
| Acrylonitrile | ND | | 0.144 | 0.500 |
| Benzene | ND | | 0.0187 | 0.0400 |
| Bromochloromethane | ND | | 0.0226 | 0.200 |
| Bromodichloromethane | ND | | 0.0290 | 0.100 |
| Bromoform | ND | | 0.0468 | 0.500 |
| Bromomethane | ND | | 0.0788 | 0.500 |
| Carbon disulfide | ND | | 0.0280 | 0.500 |
| Carbon tetrachloride | ND | | 0.0359 | 0.200 |
| Chlorobenzene | ND | | 0.00840 | 0.100 |
| Chloroethane | ND | | 0.0680 | 0.200 |
| Chloroform | ND | | 0.0412 | 0.100 |
| Chloromethane | ND | | 0.174 | 0.500 |
| Dibromochloromethane | ND | | 0.0245 | 0.100 |
| Dibromomethane | ND | | 0.0300 | 0.200 |
| Ethylbenzene | ND | | 0.0295 | 0.100 |
| Iodomethane | ND | | 0.0928 | 0.500 |
| Methylene Chloride | ND | | 0.266 | 1.00 |
| Styrene | ND | | 0.00916 | 0.500 |
| Tetrachloroethene | ND | | 0.0358 | 0.100 |
| Toluene | ND | | 0.0520 | 0.200 |
| Trichloroethene | ND | | 0.0234 | 0.0400 |
| Trichlorofluoromethane | ND | | 0.0331 | 0.100 |
| Vinyl acetate | ND | | 0.102 | 0.500 |
| Xylenes, Total | ND | | 0.0352 | 0.260 |
| cis-1,2-Dichloroethene | ND | | 0.0294 | 0.100 |
| cis-1,3-Dichloropropene | ND | | 0.0303 | 0.100 |

## Method Blank (MB)

(MB) R4289599-3 10/19/25 10:44

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|---|---|---|---|---|
| trans-1,2-Dichloroethene | ND | | 0.0416 | 0.200 |
| trans-1,3-Dichloropropene | ND | | 0.0456 | 0.200 |
| trans-1,4-Dichloro-2-butene | ND | | 0.0744 | 0.200 |
| *(S) 1,2-Dichloroethane-d4* | *97.9* | | | *70.0-130* |
| *(S) Toluene-d8* | *96.6* | | | *75.0-131* |
| *(S) 4-Bromofluorobenzene* | *99.4* | | | *67.0-138* |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4289599-1 10/19/25 09:09 • (LCSD) R4289599-2 10/19/25 09:28

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCSD Result ug/l | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 10.0 | 8.62 | 8.68 | 86.2 | 86.8 | 74.0-129 | | | 0.694 | 20 |
| 1,1,1-Trichloroethane | 10.0 | 9.00 | 9.15 | 90.0 | 91.5 | 69.0-126 | | | 1.65 | 20 |
| 1,1,2,2-Tetrachloroethane | 10.0 | 8.50 | 8.73 | 85.0 | 87.3 | 68.0-128 | | | 2.67 | 20 |
| 1,1,2-Trichloroethane | 10.0 | 8.93 | 9.16 | 89.3 | 91.6 | 78.0-123 | | | 2.54 | 20 |
| 1,1-Dichloroethane | 10.0 | 9.76 | 9.83 | 97.6 | 98.3 | 70.0-127 | | | 0.715 | 20 |
| 1,1-Dichloroethene | 10.0 | 9.86 | 10.0 | 98.6 | 100 | 65.0-131 | | | 1.41 | 20 |
| 1,2-Dichlorobenzene | 10.0 | 9.26 | 9.57 | 92.6 | 95.7 | 76.0-124 | | | 3.29 | 20 |
| 1,2-Dichloroethane | 10.0 | 9.04 | 8.72 | 90.4 | 87.2 | 65.0-131 | | | 3.60 | 20 |
| 1,2-Dichloropropane | 10.0 | 9.83 | 9.98 | 98.3 | 99.8 | 74.0-125 | | | 1.51 | 20 |
| 1,4-Dichlorobenzene | 10.0 | 8.76 | 9.01 | 87.6 | 90.1 | 77.0-121 | | | 2.81 | 20 |
| 2-Butanone (MEK) | 50.0 | 55.7 | 56.1 | 111 | 112 | 30.0-160 | | | 0.716 | 24 |
| 2-Hexanone | 50.0 | 50.4 | 50.8 | 101 | 102 | 54.0-147 | | | 0.791 | 20 |
| 4-Methyl-2-pentanone (MIBK) | 50.0 | 57.8 | 57.6 | 116 | 115 | 56.0-143 | | | 0.347 | 20 |
| Acetone | 50.0 | 41.0 | 44.6 | 82.0 | 89.2 | 10.0-160 | | | 8.41 | 31 |
| Acrylonitrile | 50.0 | 63.5 | 63.3 | 127 | 127 | 45.0-153 | | | 0.315 | 22 |
| Benzene | 10.0 | 9.40 | 9.47 | 94.0 | 94.7 | 70.0-123 | | | 0.742 | 20 |
| Bromochloromethane | 10.0 | 9.92 | 10.1 | 99.2 | 101 | 77.0-128 | | | 1.80 | 20 |
| Bromodichloromethane | 10.0 | 9.34 | 9.47 | 93.4 | 94.7 | 73.0-121 | | | 1.38 | 20 |
| Bromoform | 10.0 | 8.16 | 8.19 | 81.6 | 81.9 | 64.0-132 | | | 0.367 | 20 |
| Bromomethane | 10.0 | 12.6 | 13.1 | 126 | 131 | 56.0-147 | | | 3.89 | 20 |
| Carbon disulfide | 10.0 | 8.23 | 8.52 | 82.3 | 85.2 | 56.0-133 | | | 3.46 | 20 |
| Carbon tetrachloride | 10.0 | 8.54 | 8.89 | 85.4 | 88.9 | 66.0-128 | | | 4.02 | 20 |
| Chlorobenzene | 10.0 | 8.98 | 9.14 | 89.8 | 91.4 | 76.0-128 | | | 1.77 | 20 |
| Chloroethane | 10.0 | 9.65 | 9.90 | 96.5 | 99.0 | 61.0-134 | | | 2.56 | 20 |
| Chloroform | 10.0 | 9.81 | 10.0 | 98.1 | 100 | 72.0-123 | | | 1.92 | 20 |
| Chloromethane | 10.0 | 12.4 | 12.5 | 124 | 125 | 51.0-138 | | | 0.803 | 20 |
| Dibromochloromethane | 10.0 | 7.72 | 7.97 | 77.2 | 79.7 | 74.0-127 | | | 3.19 | 20 |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4289599-1 10/19/25 09:09 • (LCSD) R4289599-2 10/19/25 09:28

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCSD Result ug/l | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Dibromomethane | 10.0 | 9.36 | 9.33 | 93.6 | 93.3 | 75.0-122 | | | 0.321 | 20 |
| Ethylbenzene | 10.0 | 8.75 | 8.84 | 87.5 | 88.4 | 74.0-126 | | | 1.02 | 20 |
| Iodomethane | 50.0 | 45.5 | 46.0 | 91.0 | 92.0 | 74.0-134 | | | 1.09 | 20 |
| Methylene Chloride | 10.0 | 9.89 | 10.1 | 98.9 | 101 | 68.0-123 | | | 2.10 | 20 |
| Styrene | 10.0 | 8.89 | 9.17 | 88.9 | 91.7 | 72.0-127 | | | 3.10 | 20 |
| Tetrachloroethene | 10.0 | 8.32 | 8.58 | 83.2 | 85.8 | 70.0-136 | | | 3.08 | 20 |
| Toluene | 10.0 | 8.79 | 9.04 | 87.9 | 90.4 | 75.0-121 | | | 2.80 | 20 |
| Trichloroethene | 10.0 | 9.41 | 9.50 | 94.1 | 95.0 | 76.0-126 | | | 0.952 | 20 |
| Trichlorofluoromethane | 10.0 | 9.74 | 9.91 | 97.4 | 99.1 | 61.0-142 | | | 1.73 | 20 |
| Vinyl acetate | 50.0 | 64.9 | 64.9 | 130 | 130 | 43.0-159 | | | 0.000 | 20 |
| Xylenes, Total | 30.0 | 26.3 | 27.5 | 87.7 | 91.7 | 72.0-127 | | | 4.46 | 20 |
| cis-1,2-Dichloroethene | 10.0 | 9.40 | 9.26 | 94.0 | 92.6 | 73.0-125 | | | 1.50 | 20 |
| cis-1,3-Dichloropropene | 10.0 | 9.62 | 9.85 | 96.2 | 98.5 | 76.0-127 | | | 2.36 | 20 |
| trans-1,2-Dichloroethene | 10.0 | 9.06 | 9.41 | 90.6 | 94.1 | 71.0-125 | | | 3.79 | 20 |
| trans-1,3-Dichloropropene | 10.0 | 8.55 | 8.75 | 85.5 | 87.5 | 73.0-127 | | | 2.31 | 20 |
| trans-1,4-Dichloro-2-butene | 10.0 | 7.87 | 8.64 | 78.7 | 86.4 | 45.0-143 | | | 9.33 | 20 |
| *(S) 1,2-Dichloroethane-d4* | | | | *101* | *103* | *70.0-130* | | | | |
| *(S) Toluene-d8* | | | | *93.7* | *94.1* | *75.0-131* | | | | |
| *(S) 4-Bromofluorobenzene* | | | | *98.5* | *99.9* | *67.0-138* | | | | |

## Method Blank (MB)

(MB) R4290191-2 10/21/25 10:28

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|---|---|---|---|---|
| Vinyl chloride | ND | | 0.0462 | 0.0500 |
| *(S) 1,2-Dichloroethane-d4* | *96.6* | | | *70.0-130* |
| *(S) Toluene-d8* | *100* | | | *75.0-131* |
| *(S) 4-Bromofluorobenzene* | *99.5* | | | *67.0-138* |

## Laboratory Control Sample (LCS)

(LCS) R4290191-1 10/21/25 08:57

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Vinyl chloride | 10.0 | 8.42 | 84.2 | 63.0-134 | |
| *(S) 1,2-Dichloroethane-d4* | | | *99.7* | *70.0-130* | |
| *(S) Toluene-d8* | | | *98.0* | *75.0-131* | |
| *(S) 4-Bromofluorobenzene* | | | *98.3* | *67.0-138* | |

# GLOSSARY OF TERMS

## Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

## Abbreviations and Definitions

| | |
|---|---|
| MDL | Method Detection Limit. |
| ND | Not detected at the Reporting Limit (or MDL where applicable). |
| RDL | Reported Detection Limit. |
| Rec. | Recovery. |
| RPD | Relative Percent Difference. |
| SDG | Sample Delivery Group. |
| (S) | Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media. |
| Analyte | The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported. |
| Dilution | If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor. |
| Limits | These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges. |
| Original Sample | The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG. |
| Qualifier | This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable. |
| Result | The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte. |
| Uncertainty (Radiochemistry) | Confidence level of 2 sigma. |
| U (Radiochemistry) | Result + Error < MDA. |
| J (Radiochemistry) | Result < MDA; Result + Error > MDA. |
| Case Narrative (Cn) | A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report. |
| Quality Control Summary (Qc) | This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material. |
| Sample Chain of Custody (Sc) | This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis. |
| Sample Results (Sr) | This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported. |
| Sample Summary (Ss) | This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis. |

| Qualifier | Description |
|---|---|
| C3 | The reported concentration is an estimate. The continuing calibration standard associated with this data responded low. Method sensitivity check is acceptable. |
| P1 | RPD value not applicable for sample concentrations less than 5 times the reporting limit. |

# ACCREDITATIONS & LOCATIONS

## Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

| | | | |
|---|---|---|---|
| Alabama | 40660 | Nebraska | NE-OS-15-05 |
| Alaska | 17-026 | Nevada | TN000032021-1 |
| Arizona | AZ0612 | New Hampshire | 2975 |
| Arkansas | 88-0469 | New Jersey–NELAP | TN002 |
| California | 2932 | New Mexico [1] | TN00003 |
| Colorado | TN00003 | New York | 11742 |
| Connecticut | PH-0197 | North Carolina | Env375 |
| Florida | E87487 | North Carolina [1] | DW21704 |
| Georgia | NELAP | North Carolina [3] | 41 |
| Georgia [1] | 923 | North Dakota | R-140 |
| Idaho | TN00003 | Ohio–VAP | CL0069 |
| Illinois | 200008 | Oklahoma | 9915 |
| Indiana | C-TN-01 | Oregon | TN200002 |
| Iowa | 364 | Pennsylvania | 68-02979 |
| Kansas | E-10277 | Rhode Island | LA000356 |
| Kentucky [1 6] | KY90010 | South Carolina | 84004002 |
| Kentucky [2] | 16 | South Dakota | n/a |
| Louisiana | AI30792 | Tennessee [1 4] | 2006 |
| Louisiana | LA018 | Texas | T104704245-20-18 |
| Maine | TN00003 | Texas [5] | LAB0152 |
| Maryland | 324 | Utah | TN000032021-11 |
| Massachusetts | M-TN003 | Vermont | VT2006 |
| Michigan | 9958 | Virginia | 110033 |
| Minnesota | 047-999-395 | Washington | C847 |
| Mississippi | TN00003 | West Virginia | 233 |
| Missouri | 340 | Wisconsin | 998093910 |
| Montana | CERT0086 | Wyoming | A2LA |
| A2LA – ISO 17025 | 1461.01 | AIHA-LAP,LLC EMLAP | 100789 |
| A2LA – ISO 17025 [5] | 1461.02 | DOD | 1461.01 |
| Canada | 1461.01 | USDA | P330-15-00234 |
| EPA–Crypto | TN00003 | | |

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

Company Name/Address:
**Dickinson Landfill**

**C/O Spruce Ridge 12755 137th Street**
**Glencoe, MN 55336**

Billing Information:
**Accounts Payable/ddemory@wm.com**
**PO Box 4745**
**Portland, OR 97208-4745**

Pres Chk

Report to:
**Andy McCain 320-864-5503**

Email To:
**ddemory@wm.com;cory.anderson2@stantec.co**

Project Description:
**MW-41A Background**

City/State Collected:

Please Circle: PT MT CT ET

Regulatory Program(DOD,RCRA,DW,etc):

Client Project #
**200**

Lab Project #
**WMDICIA-00012**

Collected by (print):
Dylan Schreckenberg

Site/Facility ID #
**IA01**

P.O. #

Collected by (signature):
DyL

Immediately Packed on Ice N ___ Y X

***Rush?*** (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day ___ STD TAT

Quote #

Date Results Needed

| Sample ID | Comp/Grab | Matrix * | Depth | Date | Time | No. of Cntrs | Metals 250mlHDPE-HNO3 | TSS 1L-HDPE NoPres | V524LL 40mlAmb-AscAcid+HCl | V524LL 40mlAmb-HCl-Blk | V8260ULLC 40mlAmb-HCl | V8260ULLC 40mlAmb-HCl-Blk | | | | Remarks | Sample # (lab only) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-41A | | GW | | 10/2/25 | 1236 | 8 | X | X | X | | X | | | | | | -01 |
| TRIP BLANK | | GW | | | | 4 | | | | X | | X | | | | | -02 |
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Analysis / Container / Preservative

Chain of Custody Page ___ of ___

Pace
PEOPLE ADVANCING SCIENCE

**MT JULIET, TN**

12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # 190819B

**D233**

Acctnum: **WMDICIA**
Template: **T280596**
Prelogin: **P1182448**
PM: **3564 - Chad A Upchurch**
PB: NR 10/7/25

Shipped Via: **FedEX Ground**

* Matrix:
**SS** - Soil **AIR** - Air **F** - Filter
**GW** - Groundwater **B** - Bioassay
**WW** - WasteWater
**DW** - Drinking Water
**OT** - Other_____

**Remarks:**

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking # 7919 7494 1656

Sample Receipt Checklist
COC Seal Present/Intact: __NP Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
If Applicable
VOA Zero Headspace: __Y __N
Preservation Correct/Checked: __Y __N
RAD Screen <0.5 mR/hr: Y __N

| Relinquished by : (Signature) | Date: | Time: | Received by: (Signature) | Trip Blank Received: Yes / No HCl / MeoH TBR | If preservation required by Login: Date/Time |
|---|---|---|---|---|---|
| Dyl | 10/2/25 | 1530 | | 4 | |
| Relinquished by : (Signature) | Date: | Time: | Received by: (Signature) | Temp: °C Bottles Received: | |
| | | | | TA93.5+0.3.5 8 | |
| Relinquished by : (Signature) | Date: | Time: | Received for lab by: (Signature) | Date: Time: | Hold: Condition: NCF / OK |
| | | | DA | 10/15/25 0900 | |

# FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: Dickinson SLF

Site No.:

Sample Point: MW-41A (Sample ID)

**This Waste Management Field Information Form is Required**
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID: L1908198

## PURGE INFO

| PURGE DATE (MM DD YY) | PURGE TIME (2400 Hr Clock) | ELAPSED HRS (hrs:min) | WATER VOL IN CASING (Gallons) | ACTUAL VOL PURGED (Gallons) | WELL VOLs PURGED |
|---|---|---|---|---|---|
| 10/14/25 | 12:30 | :06 | .05 | .25 | 10 |

*Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.*

## PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment … Dedicated: (Y) or N

Purging Device: C

Sampling Device: C

A- Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

X-Other:

**Filter Device:** Y or (N) 0.45 µ or ____ µ (circle or fill in)

**Filter Type:** A-In-line Disposable, B-Pressure, C-Vacuum, X-Other ____

Sample Tube Type: A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other: ____

## WELL DATA

**Well Elevation (at TOC):** NA (ft/msl)

**Depth to Water (DTW) (from TOC):** 29.45 (ft)

**Groundwater Elevation (site datum, from TOC):** NA (ft/msl)

Total Well Depth (from TOC): 32.57 (ft)

Stick Up (from ground elevation): ____ (ft)

Casing ID: ____ (in)

Casing Material: ____

*Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.*

## STABILIZATION DATA (Optional)

| Sample Time (2400 Hr Clock) | Rate/Unit | | pH (std) | | Conductance (SC/EC) (µmhos/cm @ 25 °C) | | Temp. (°C) | Turbidity (ntu) | D.O. (mg/L - ppm) | eH/ORP (mV) | DTW (ft) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:31 | 0.5 | 1st | 7.20 | 1st | 1408 | | 1.09 | 9.04 | 3.2 | 82.5 | |
| | | 2nd | | 2nd | | | | | | | |
| | | 3rd | | 3rd | | | | | | | |
| 12:36 | | 4th | 7.23 | 4th | 1065 | | 1.05 | 7.77 | 3.9 | 7.70 | |
| | | | | | | | | | | | |
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| | | | | | | | | | | | |
| Suggested range for 3 consec. readings or note Permit/State requirements: | | | +/- 0.2 | | +/- 3% | | – | – | +/- 10% | +/- 25 mV | Stabilize |

**Stabilization Data Fields are Optional** *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form*

## FIELD DATA

| SAMPLE DATE (MM DD YY) | pH (std) | CONDUCTANCE (umhos/cm @ 25°C) | TEMP. (°C) | TURBIDITY (ntu) | DO (mg/L-ppm) | eH/ORP (mV) | Other: Units |
|---|---|---|---|---|---|---|---|
| 10/14/25 | 7.23 | 1065 | 1.05 | 7.77 | 3.9 | 7.70 | |

**Final Field Readings are required** *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

## FIELD COMMENTS

**Sample Appearance:** SI Cloudy  Odor: None  Color: SI Tan  Other: ____

**Weather Conditions** (required daily, or as conditions change): Direction/Speed: SE 11  Outlook: ~~Overcast~~ Clearing  Precipitation: (Y) or N

**Specific Comments (including purge/well volume calculations if required):** * Limited volume, well went dry

* use vacuum ~~on~~ if necessary

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

| Date | Name | Signature | Company |
|---|---|---|---|
| 10/14/25 | Dylan Schroedenberg | | MNTL |

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client

ORIGINAL COPY

L1908198

# GROUNDWATER SAMPLING AND/OR GROUNDWATER ELEVATION MEASUREMENT

Site Name Dickinson Co. SLF Permit No. L1908198

Monitoring Well/Piezometer No. MW-41A Upgradient

Downgradient

Name of person sampling Dylan Schreckenberg

## A. MONITORING WELL/PIEZOMETER CONDITIONS

Well/Piezometer Properly Capped Yes Standing Water of Litter? No

If no, explain If yes, explain

## B. GROUNDWATER ELEVATION MEASUREMENT (± 0.01 foot, MSL)

Elevation: Top of inner well casing NA Ground Elevation NA

Depth of Well 32.57 Inside casing diameter ( in inches ) 2"

Equipment Used EI Water Level Indicator

Groundwater Level ( ± 0.01 foot below top of inner casing, MSL) :

| | Date/Time | Depth to Groundwater | Groundwater Elevation |
|---|---|---|---|
| Before Purging | 10/25/1230 | 29.45 | NA |
| * After Purging | / | Below pump | / |
| * Before Sampling | / | Below Pump | |

## C. WELL PURGING

Quantity of Water Removed from Well ( gallons ) 0.5

No. of Well Volumes ( based on current water level ) 1

Was well pumped / bailed dry? Yes

Equipment used:

Bailer type Dedicated Bailer?

Pump type QED Bladder Dedicated Pump? Yes

If not dedicated, method of cleaning

## *D. FIELD MEASUREMENT

Weather Conditions SI, 6@11, Overcast, Light rain

Field Measurements ( after stabilization ):

Temperature 10.5 Units °C

Equipment Used YSI 6820 Multi Parameter Meter

pH 7.23

Equipment Used YSI 6820 Multi Parameter Meter

Specific Cond. 1065

Equipment Used YSI 6820 Multi Parameter Meter

Comments

NOTE: Attach Laboratory Report and 8-12" x 11" site plan showing locations of all surface and groundwater monitoring points. One map per sampling round.

*Omit if only measuring groundwater elevations

# ANALYTICAL REPORT

December 15, 2025



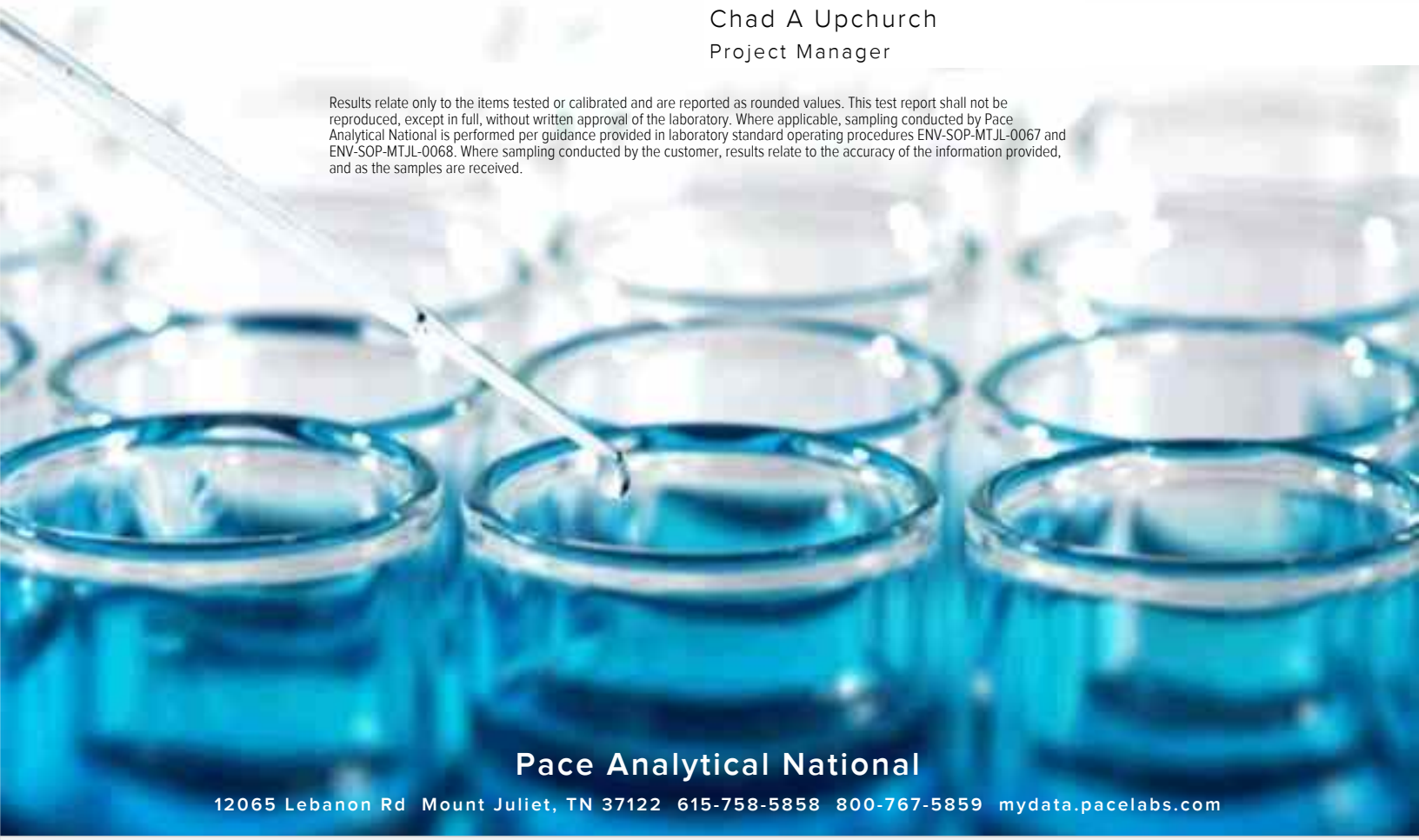
## Dickinson Landfill

| | |
|---|---|
| Sample Delivery Group: | L1922885 |
| Samples Received: | 11/26/2025 |
| Project Number: | 200 |
| Description: | MW-41A Background |
| Site: | IA01 |
| Report To: | Andy McCain<br>C/O Spruce Ridge 12755 137th Street<br>Glencoe, MN 55336 |

Entire Report Reviewed By:

Chad A Upchurch
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



Pace Analytical National
12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 mydata.pacelabs.com

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# SAMPLE SUMMARY

## MW-41A L1922885-01

Collected by: DF | Collected date/time: 11/24/25 10:16 | Received date/time: 11/26/25 09:30

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Gravimetric Analysis by Method 2540 D-2011 | WG2648815 | 1 | 12/01/25 06:46 | 12/01/25 07:29 | AMG | Mt. Juliet, TN |
| Metals (ICP) by Method 6010C | WG2648783 | 1 | 12/02/25 10:21 | 12/02/25 15:41 | MAP | Mt. Juliet, TN |
| Metals (ICPMS) by Method 6020A | WG2648986 | 1 | 11/29/25 10:28 | 12/11/25 22:20 | JPD | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG2649741 | 1 | 12/01/25 13:08 | 12/01/25 13:08 | BRA | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG2649932 | 1 | 12/01/25 18:39 | 12/01/25 18:39 | JBE | Mt. Juliet, TN |

## TRIP BLANK L1922885-02

Collected by: DF | Collected date/time: 11/24/25 08:00 | Received date/time: 11/26/25 09:30

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG2649741 | 1 | 12/01/25 12:04 | 12/01/25 12:04 | BRA | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG2649932 | 1 | 12/01/25 14:38 | 12/01/25 14:38 | JBE | Mt. Juliet, TN |

Unless qualified or notated within the narrative below, all sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Chad A Upchurch
Project Manager

## Project Comments

The requested project specific reporting limits may be less than laboratory standard quantitation limits (PQL) but will be greater than or equal to the laboratory method detection limits (MDL). It is noted that results reported below lab standard quantitation limits (PQLs) may result in false positive/false negative values that may require additional laboratory quality assurance review, if requested. Routine laboratory procedures do not initiate a data review process for detections below the laboratory's PQL unless requested by the client.

## Volatile Organic Compounds (GC/MS) by Method 8260C

The associated batch QC was outside the established quality control range for precision.

| Batch | Lab Sample ID | Analytes |
|---|---|---|
| WG2649932 | (LCSD) R4308656-2, L1922885-01, 02 | trans-1,4-Dichloro-2-butene |

## Additional Information - Results for field analyses are not accredited to ISO 17025

| Analyte | Result | Units |
|---|---|---|
| Depth to water (DTW) (FROM TOC) | 24.15 | ftmsl |
| pH (On Site) | 6.83 | su |
| Specific Conductance (on site) | 1360 | umhos/cm |
| Temperature (on-site) | 11.4 | Deg. C |
| Turbidity (on-site) | 12.6 | NTU |
| Dissolved Oxygen (on-site) | 1.5 | mg/l |
| eH/ORP ( On Site ) | 95.3 | mV |

## Gravimetric Analysis by Method 2540 D-2011

| Analyte | Result | Qualifier | RL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|
| | mg/l | | mg/l | | date / time | |
| Suspended Solids | 53.2 | | 2.50 | 1 | 12/01/2025 07:29 | WG2648815 |

## Metals (ICP) by Method 6010C

| Analyte | Result | Qualifier | RL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|
| | mg/l | | mg/l | | date / time | |
| Silver | ND | | 0.0100 | 1 | 12/02/2025 15:41 | WG2648783 |
| Arsenic | ND | | 0.0100 | 1 | 12/02/2025 15:41 | WG2648783 |
| Barium | 0.101 | | 0.0200 | 1 | 12/02/2025 15:41 | WG2648783 |
| Beryllium | ND | | 0.00400 | 1 | 12/02/2025 15:41 | WG2648783 |
| Cadmium | ND | | 0.00500 | 1 | 12/02/2025 15:41 | WG2648783 |
| Chromium | ND | | 0.0100 | 1 | 12/02/2025 15:41 | WG2648783 |
| Copper | ND | | 0.0100 | 1 | 12/02/2025 15:41 | WG2648783 |
| Nickel | ND | | 0.0100 | 1 | 12/02/2025 15:41 | WG2648783 |
| Lead | ND | | 0.0100 | 1 | 12/02/2025 15:41 | WG2648783 |
| Vanadium | ND | | 0.0200 | 1 | 12/02/2025 15:41 | WG2648783 |
| Zinc | ND | | 0.0500 | 1 | 12/02/2025 15:41 | WG2648783 |

## Metals (ICPMS) by Method 6020A

| Analyte | Result | Qualifier | RL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|
| | mg/l | | mg/l | | date / time | |
| Cobalt | ND | | 0.00200 | 1 | 12/11/2025 22:20 | WG2648986 |
| Antimony | ND | | 0.00600 | 1 | 12/11/2025 22:20 | WG2648986 |
| Selenium | ND | | 0.0100 | 1 | 12/11/2025 22:20 | WG2648986 |
| Thallium | ND | | 0.00200 | 1 | 12/11/2025 22:20 | WG2648986 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result | Qualifier | RL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|
| | ug/l | | ug/l | | date / time | |
| 1,1,1,2-Tetrachloroethane | ND | | 1.00 | 1 | 12/01/2025 18:39 | WG2649932 |
| 1,2,3-Trichloropropane | ND | | 0.00580 | 1 | 12/01/2025 13:08 | WG2649741 |
| 1,1,1-Trichloroethane | ND | | 1.00 | 1 | 12/01/2025 18:39 | WG2649932 |
| 1,2-Dibromo-3-Chloropropane | ND | | 0.200 | 1 | 12/01/2025 13:08 | WG2649741 |
| 1,1,2,2-Tetrachloroethane | ND | | 0.300 | 1 | 12/01/2025 18:39 | WG2649932 |
| 1,2-Dibromoethane | ND | | 0.0500 | 1 | 12/01/2025 13:08 | WG2649741 |
| 1,1,2-Trichloroethane | ND | | 1.00 | 1 | 12/01/2025 18:39 | WG2649932 |
| 1,1-Dichloroethane | ND | | 1.00 | 1 | 12/01/2025 18:39 | WG2649932 |
| 1,1-Dichloroethene | ND | | 1.00 | 1 | 12/01/2025 18:39 | WG2649932 |
| 1,2-Dichlorobenzene | ND | | 1.00 | 1 | 12/01/2025 18:39 | WG2649932 |
| 1,2-Dichloroethane | ND | | 1.00 | 1 | 12/01/2025 18:39 | WG2649932 |
| 1,2-Dichloropropane | ND | | 1.00 | 1 | 12/01/2025 18:39 | WG2649932 |
| 1,4-Dichlorobenzene | ND | | 1.00 | 1 | 12/01/2025 18:39 | WG2649932 |
| 2-Butanone (MEK) | ND | | 10.0 | 1 | 12/01/2025 18:39 | WG2649932 |
| 2-Hexanone | ND | | 5.00 | 1 | 12/01/2025 18:39 | WG2649932 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result ug/l | Qualifier | RL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.00 | 1 | 12/01/2025 18:39 | WG2649932 |
| Acetone | ND | | 25.0 | 1 | 12/01/2025 18:39 | WG2649932 |
| Acrylonitrile | ND | | 0.320 | 1 | 12/01/2025 18:39 | WG2649932 |
| Benzene | ND | | 1.00 | 1 | 12/01/2025 18:39 | WG2649932 |
| Bromochloromethane | ND | | 1.00 | 1 | 12/01/2025 18:39 | WG2649932 |
| Bromodichloromethane | ND | | 1.00 | 1 | 12/01/2025 18:39 | WG2649932 |
| Bromoform | ND | | 1.00 | 1 | 12/01/2025 18:39 | WG2649932 |
| Bromomethane | ND | | 2.50 | 1 | 12/01/2025 18:39 | WG2649932 |
| Carbon disulfide | ND | | 1.00 | 1 | 12/01/2025 18:39 | WG2649932 |
| Carbon tetrachloride | ND | | 1.00 | 1 | 12/01/2025 18:39 | WG2649932 |
| Chlorobenzene | ND | | 1.00 | 1 | 12/01/2025 18:39 | WG2649932 |
| Chloroethane | ND | | 2.50 | 1 | 12/01/2025 18:39 | WG2649932 |
| Chloroform | ND | | 1.00 | 1 | 12/01/2025 18:39 | WG2649932 |
| Chloromethane | ND | | 1.25 | 1 | 12/01/2025 18:39 | WG2649932 |
| Dibromochloromethane | ND | | 1.00 | 1 | 12/01/2025 18:39 | WG2649932 |
| Dibromomethane | ND | | 1.00 | 1 | 12/01/2025 18:39 | WG2649932 |
| Ethylbenzene | ND | | 1.00 | 1 | 12/01/2025 18:39 | WG2649932 |
| Iodomethane | ND | | 10.0 | 1 | 12/01/2025 18:39 | WG2649932 |
| Methylene Chloride | ND | | 2.50 | 1 | 12/01/2025 18:39 | WG2649932 |
| Styrene | ND | | 1.00 | 1 | 12/01/2025 18:39 | WG2649932 |
| Tetrachloroethene | ND | | 1.00 | 1 | 12/01/2025 18:39 | WG2649932 |
| Toluene | ND | | 1.00 | 1 | 12/01/2025 18:39 | WG2649932 |
| Trichloroethene | ND | | 1.00 | 1 | 12/01/2025 18:39 | WG2649932 |
| Trichlorofluoromethane | ND | | 2.50 | 1 | 12/01/2025 18:39 | WG2649932 |
| Vinyl acetate | ND | | 5.00 | 1 | 12/01/2025 18:39 | WG2649932 |
| Vinyl chloride | ND | | 1.00 | 1 | 12/01/2025 18:39 | WG2649932 |
| Xylenes, Total | ND | | 3.00 | 1 | 12/01/2025 18:39 | WG2649932 |
| cis-1,2-Dichloroethene | ND | | 1.00 | 1 | 12/01/2025 18:39 | WG2649932 |
| cis-1,3-Dichloropropene | ND | | 1.00 | 1 | 12/01/2025 18:39 | WG2649932 |
| trans-1,2-Dichloroethene | ND | | 1.00 | 1 | 12/01/2025 18:39 | WG2649932 |
| trans-1,3-Dichloropropene | ND | | 1.00 | 1 | 12/01/2025 18:39 | WG2649932 |
| trans-1,4-Dichloro-2-butene | ND | J3 | 1.00 | 1 | 12/01/2025 18:39 | WG2649932 |
| *(S) 1,2-Dichloroethane-d4* | *110* | | | *70.0-130* | *12/01/2025 18:39* | WG2649932 |
| *(S) Toluene-d8* | *102* | | | *75.0-131* | *12/01/2025 18:39* | WG2649932 |
| *(S) 4-Bromofluorobenzene* | *95.4* | | | *67.0-138* | *12/01/2025 18:39* | WG2649932 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result ug/l | Qualifier | RL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | | 1.00 | 1 | 12/01/2025 14:38 | WG2649932 |
| 1,2,3-Trichloropropane | ND | | 0.00580 | 1 | 12/01/2025 12:04 | WG2649741 |
| 1,1,1-Trichloroethane | ND | | 1.00 | 1 | 12/01/2025 14:38 | WG2649932 |
| 1,2-Dibromo-3-Chloropropane | ND | | 0.200 | 1 | 12/01/2025 12:04 | WG2649741 |
| 1,1,2,2-Tetrachloroethane | ND | | 0.300 | 1 | 12/01/2025 14:38 | WG2649932 |
| 1,2-Dibromoethane | ND | | 0.0500 | 1 | 12/01/2025 12:04 | WG2649741 |
| 1,1,2-Trichloroethane | ND | | 1.00 | 1 | 12/01/2025 14:38 | WG2649932 |
| 1,1-Dichloroethane | ND | | 1.00 | 1 | 12/01/2025 14:38 | WG2649932 |
| 1,1-Dichloroethene | ND | | 1.00 | 1 | 12/01/2025 14:38 | WG2649932 |
| 1,2-Dichlorobenzene | ND | | 1.00 | 1 | 12/01/2025 14:38 | WG2649932 |
| 1,2-Dichloroethane | ND | | 1.00 | 1 | 12/01/2025 14:38 | WG2649932 |
| 1,2-Dichloropropane | ND | | 1.00 | 1 | 12/01/2025 14:38 | WG2649932 |
| 1,4-Dichlorobenzene | ND | | 1.00 | 1 | 12/01/2025 14:38 | WG2649932 |
| 2-Butanone (MEK) | ND | | 10.0 | 1 | 12/01/2025 14:38 | WG2649932 |
| 2-Hexanone | ND | | 5.00 | 1 | 12/01/2025 14:38 | WG2649932 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.00 | 1 | 12/01/2025 14:38 | WG2649932 |
| Acetone | ND | | 25.0 | 1 | 12/01/2025 14:38 | WG2649932 |
| Acrylonitrile | ND | | 0.320 | 1 | 12/01/2025 14:38 | WG2649932 |
| Benzene | ND | | 1.00 | 1 | 12/01/2025 14:38 | WG2649932 |
| Bromochloromethane | ND | | 1.00 | 1 | 12/01/2025 14:38 | WG2649932 |
| Bromodichloromethane | ND | | 1.00 | 1 | 12/01/2025 14:38 | WG2649932 |
| Bromoform | ND | | 1.00 | 1 | 12/01/2025 14:38 | WG2649932 |
| Bromomethane | ND | | 2.50 | 1 | 12/01/2025 14:38 | WG2649932 |
| Carbon disulfide | ND | | 1.00 | 1 | 12/01/2025 14:38 | WG2649932 |
| Carbon tetrachloride | ND | | 1.00 | 1 | 12/01/2025 14:38 | WG2649932 |
| Chlorobenzene | ND | | 1.00 | 1 | 12/01/2025 14:38 | WG2649932 |
| Chloroethane | ND | | 2.50 | 1 | 12/01/2025 14:38 | WG2649932 |
| Chloroform | ND | | 1.00 | 1 | 12/01/2025 14:38 | WG2649932 |
| Chloromethane | ND | | 1.25 | 1 | 12/01/2025 14:38 | WG2649932 |
| Dibromochloromethane | ND | | 1.00 | 1 | 12/01/2025 14:38 | WG2649932 |
| Dibromomethane | ND | | 1.00 | 1 | 12/01/2025 14:38 | WG2649932 |
| Ethylbenzene | ND | | 1.00 | 1 | 12/01/2025 14:38 | WG2649932 |
| Iodomethane | ND | | 10.0 | 1 | 12/01/2025 14:38 | WG2649932 |
| Methylene Chloride | ND | | 2.50 | 1 | 12/01/2025 14:38 | WG2649932 |
| Styrene | ND | | 1.00 | 1 | 12/01/2025 14:38 | WG2649932 |
| Tetrachloroethene | ND | | 1.00 | 1 | 12/01/2025 14:38 | WG2649932 |
| Toluene | ND | | 1.00 | 1 | 12/01/2025 14:38 | WG2649932 |
| Trichloroethene | ND | | 1.00 | 1 | 12/01/2025 14:38 | WG2649932 |
| Trichlorofluoromethane | ND | | 2.50 | 1 | 12/01/2025 14:38 | WG2649932 |
| Vinyl acetate | ND | | 5.00 | 1 | 12/01/2025 14:38 | WG2649932 |
| Vinyl chloride | ND | | 1.00 | 1 | 12/01/2025 14:38 | WG2649932 |
| Xylenes, Total | ND | | 3.00 | 1 | 12/01/2025 14:38 | WG2649932 |
| cis-1,2-Dichloroethene | ND | | 1.00 | 1 | 12/01/2025 14:38 | WG2649932 |
| cis-1,3-Dichloropropene | ND | | 1.00 | 1 | 12/01/2025 14:38 | WG2649932 |
| trans-1,2-Dichloroethene | ND | | 1.00 | 1 | 12/01/2025 14:38 | WG2649932 |
| trans-1,3-Dichloropropene | ND | | 1.00 | 1 | 12/01/2025 14:38 | WG2649932 |
| trans-1,4-Dichloro-2-butene | ND | J3 | 1.00 | 1 | 12/01/2025 14:38 | WG2649932 |
| *(S) 1,2-Dichloroethane-d4* | *110* | | | *70.0-130* | *12/01/2025 14:38* | WG2649932 |
| *(S) Toluene-d8* | *101* | | | *75.0-131* | *12/01/2025 14:38* | WG2649932 |
| *(S) 4-Bromofluorobenzene* | *91.8* | | | *67.0-138* | *12/01/2025 14:38* | WG2649932 |

## Method Blank (MB)

(MB) R4308131-1 12/01/25 07:29

| Analyte | MB Result mg/l | MB Qualifier | MB MDL mg/l | MB RDL mg/l |
|---|---|---|---|---|
| Suspended Solids | ND | | 0.350 | 2.50 |

## L1922826-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1922826-02 12/01/25 07:29 • (DUP) R4308131-3 12/01/25 07:29

| Analyte | Original Result mg/l | DUP Result mg/l | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|---|---|---|---|---|---|---|
| Suspended Solids | 74.8 | 75.6 | 1 | 1.06 | | 10 |

## L1922885-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1922885-01 12/01/25 07:29 • (DUP) R4308131-4 12/01/25 07:29

| Analyte | Original Result mg/l | DUP Result mg/l | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|---|---|---|---|---|---|---|
| Suspended Solids | 53.2 | 52.0 | 1 | 2.28 | | 10 |

## Laboratory Control Sample (LCS)

(LCS) R4308131-2 12/01/25 07:29

| Analyte | Spike Amount mg/l | LCS Result mg/l | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Suspended Solids | 773 | 750 | 97.0 | 85.0-115 | |

## Method Blank (MB)

(MB) R4309057-1 12/02/25 14:28

| Analyte | MB Result mg/l | MB Qualifier | MB MDL mg/l | MB RDL mg/l |
|---|---|---|---|---|
| Silver | ND | | 0.00280 | 0.00500 |
| Arsenic | ND | | 0.00650 | 0.0100 |
| Barium | ND | | 0.00170 | 0.00500 |
| Beryllium | ND | | 0.000700 | 0.00200 |
| Cadmium | ND | | 0.000700 | 0.00200 |
| Chromium | ND | | 0.00140 | 0.0100 |
| Copper | ND | | 0.00530 | 0.0100 |
| Nickel | ND | | 0.00490 | 0.0100 |
| Lead | ND | | 0.00190 | 0.00500 |
| Vanadium | ND | | 0.00240 | 0.0200 |
| Zinc | ND | | 0.00590 | 0.0500 |

## Laboratory Control Sample (LCS)

(LCS) R4309057-2 12/02/25 14:31

| Analyte | Spike Amount mg/l | LCS Result mg/l | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Silver | 0.200 | 0.201 | 101 | 80.0-120 | |
| Arsenic | 1.00 | 0.943 | 94.3 | 80.0-120 | |
| Barium | 1.00 | 0.987 | 98.7 | 80.0-120 | |
| Beryllium | 1.00 | 0.964 | 96.4 | 80.0-120 | |
| Cadmium | 1.00 | 0.945 | 94.5 | 80.0-120 | |
| Chromium | 1.00 | 0.976 | 97.6 | 80.0-120 | |
| Copper | 1.00 | 0.986 | 98.6 | 80.0-120 | |
| Nickel | 1.00 | 0.912 | 91.2 | 80.0-120 | |
| Lead | 1.00 | 0.924 | 92.4 | 80.0-120 | |
| Vanadium | 1.00 | 0.931 | 93.1 | 80.0-120 | |
| Zinc | 1.00 | 0.960 | 96.0 | 80.0-120 | |

## L1922849-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1922849-05 12/02/25 14:33 • (MS) R4309057-4 12/02/25 14:38 • (MSD) R4309057-5 12/02/25 14:40

| Analyte | Spike Amount mg/l | Original Result mg/l | MS Result mg/l | MSD Result mg/l | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Silver | 0.200 | ND | 0.203 | 0.205 | 102 | 103 | 1 | 75.0-125 | | | 0.993 | 20 |
| Arsenic | 1.00 | 0.0111 | 0.980 | 0.984 | 96.9 | 97.3 | 1 | 75.0-125 | | | 0.466 | 20 |
| Barium | 1.00 | 0.258 | 1.23 | 1.24 | 97.6 | 98.0 | 1 | 75.0-125 | | | 0.374 | 20 |
| Beryllium | 1.00 | ND | 0.991 | 0.974 | 99.1 | 97.4 | 1 | 75.0-125 | | | 1.66 | 20 |
| Cadmium | 1.00 | ND | 0.962 | 0.964 | 96.2 | 96.4 | 1 | 75.0-125 | | | 0.170 | 20 |

## L1922849-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1922849-05 12/02/25 14:33 • (MS) R4309057-4 12/02/25 14:38 • (MSD) R4309057-5 12/02/25 14:40

| Analyte | Spike Amount mg/l | Original Result mg/l | MS Result mg/l | MSD Result mg/l | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chromium | 1.00 | ND | 0.980 | 0.980 | 97.9 | 97.8 | 1 | 75.0-125 | | | 0.0630 | 20 |
| Copper | 1.00 | ND | 0.978 | 0.990 | 97.8 | 99.0 | 1 | 75.0-125 | | | 1.22 | 20 |
| Nickel | 1.00 | ND | 0.920 | 0.926 | 92.0 | 92.6 | 1 | 75.0-125 | | | 0.644 | 20 |
| Lead | 1.00 | ND | 0.940 | 0.945 | 94.0 | 94.5 | 1 | 75.0-125 | | | 0.543 | 20 |
| Vanadium | 1.00 | ND | 0.959 | 0.945 | 95.9 | 94.5 | 1 | 75.0-125 | | | 1.47 | 20 |
| Zinc | 1.00 | ND | 0.959 | 0.962 | 95.9 | 96.2 | 1 | 75.0-125 | | | 0.324 | 20 |

## Method Blank (MB)

(MB) R4313125-7 12/11/25 21:39

| Analyte | MB Result mg/l | MB Qualifier | MB MDL mg/l | MB RDL mg/l |
|---|---|---|---|---|
| Cobalt | ND | | 0.000260 | 0.00200 |
| Antimony | ND | | 0.000754 | 0.00200 |
| Selenium | ND | | 0.000380 | 0.00200 |
| Thallium | 0.00183 | J | 0.000190 | 0.00200 |

## Laboratory Control Sample (LCS)

(LCS) R4313125-1 12/11/25 20:41

| Analyte | Spike Amount mg/l | LCS Result mg/l | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Cobalt | 0.0500 | 0.0521 | 104 | 80.0-120 | |
| Antimony | 0.0500 | 0.0493 | 98.5 | 80.0-120 | |
| Selenium | 0.0500 | 0.0499 | 99.9 | 80.0-120 | |
| Thallium | 0.0500 | 0.0496 | 99.1 | 80.0-120 | |

## L1922849-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1922849-05 12/11/25 20:45 • (MS) R4313125-3 12/11/25 20:51 • (MSD) R4313125-4 12/11/25 20:55

| Analyte | Spike Amount mg/l | Original Result mg/l | MS Result mg/l | MSD Result mg/l | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Cobalt | 0.0500 | ND | 0.0516 | 0.0516 | 101 | 101 | 1 | 75.0-125 | | | 0.0984 | 20 |
| Antimony | 0.0500 | ND | 0.0519 | 0.0517 | 104 | 103 | 1 | 75.0-125 | | | 0.433 | 20 |
| Selenium | 0.0500 | ND | 0.0505 | 0.0500 | 101 | 100 | 1 | 75.0-125 | | | 0.950 | 20 |
| Thallium | 0.0500 | ND | 0.0503 | 0.0506 | 101 | 101 | 1 | 75.0-125 | | | 0.513 | 20 |

## L1922900-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1922900-03 12/11/25 20:58 • (MS) R4313125-5 12/11/25 21:01 • (MSD) R4313125-6 12/11/25 21:05

| Analyte | Spike Amount mg/l | Original Result mg/l | MS Result mg/l | MSD Result mg/l | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Cobalt | 0.0500 | 0.00260 | 0.0518 | 0.0523 | 98.4 | 99.4 | 1 | 75.0-125 | | | 0.946 | 20 |
| Antimony | 0.0500 | ND | 0.0505 | 0.0503 | 101 | 101 | 1 | 75.0-125 | | | 0.343 | 20 |
| Selenium | 0.0500 | ND | 0.0486 | 0.0476 | 96.7 | 94.7 | 1 | 75.0-125 | | | 2.08 | 20 |
| Thallium | 0.0500 | ND | 0.0487 | 0.0504 | 97.4 | 101 | 1 | 75.0-125 | | | 3.40 | 20 |

## Method Blank (MB)

(MB) R4308134-2 12/01/25 11:22

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|---|---|---|---|---|
| 1,2,3-Trichloropropane | ND | | 0.00200 | 0.00500 |
| 1,2-Dibromo-3-Chloropropane | ND | | 0.000520 | 0.00500 |
| 1,2-Dibromoethane | ND | | 0.00410 | 0.00500 |

## Laboratory Control Sample (LCS)

(LCS) R4308134-1 12/01/25 10:40

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| 1,2,3-Trichloropropane | 0.0500 | 0.0580 | 116 | 70.0-130 | |
| 1,2-Dibromo-3-Chloropropane | 0.0500 | 0.0540 | 108 | 70.0-130 | |
| 1,2-Dibromoethane | 0.0500 | 0.0510 | 102 | 70.0-130 | |

## Method Blank (MB)

(MB) R4308656-3 12/01/25 10:58

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | | 0.0379 | 0.100 |
| 1,1,1-Trichloroethane | ND | | 0.0369 | 0.100 |
| 1,1,2,2-Tetrachloroethane | ND | | 0.0278 | 0.100 |
| 1,1,2-Trichloroethane | ND | | 0.0239 | 0.100 |
| 1,1-Dichloroethane | ND | | 0.0196 | 0.100 |
| 1,1-Dichloroethene | ND | | 0.0242 | 0.100 |
| 1,2-Dichlorobenzene | ND | | 0.0170 | 0.200 |
| 1,2-Dichloroethane | ND | | 0.0260 | 0.100 |
| 1,2-Dichloropropane | ND | | 0.0568 | 0.200 |
| 1,4-Dichlorobenzene | ND | | 0.0280 | 0.200 |
| 2-Butanone (MEK) | ND | | 2.54 | 4.00 |
| 2-Hexanone | ND | | 0.134 | 1.00 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 0.0912 | 1.00 |
| Acetone | ND | | 1.46 | 2.00 |
| Acrylonitrile | ND | | 0.144 | 0.500 |
| Benzene | ND | | 0.0187 | 0.0400 |
| Bromochloromethane | ND | | 0.0226 | 0.200 |
| Bromodichloromethane | ND | | 0.0290 | 0.100 |
| Bromoform | ND | | 0.0468 | 0.500 |
| Bromomethane | ND | | 0.0788 | 0.500 |
| Carbon disulfide | ND | | 0.0280 | 0.500 |
| Carbon tetrachloride | ND | | 0.0359 | 0.200 |
| Chlorobenzene | ND | | 0.00840 | 0.100 |
| Chloroethane | ND | | 0.0680 | 0.200 |
| Chloroform | ND | | 0.0412 | 0.100 |
| Chloromethane | ND | | 0.174 | 0.500 |
| Dibromochloromethane | ND | | 0.0245 | 0.100 |
| Dibromomethane | ND | | 0.0300 | 0.200 |
| Ethylbenzene | ND | | 0.0295 | 0.100 |
| Iodomethane | ND | | 0.0928 | 0.500 |
| Methylene Chloride | ND | | 0.266 | 1.00 |
| Styrene | ND | | 0.00916 | 0.500 |
| Tetrachloroethene | ND | | 0.0358 | 0.100 |
| Toluene | ND | | 0.0520 | 0.200 |
| Trichloroethene | ND | | 0.0234 | 0.0400 |
| Trichlorofluoromethane | ND | | 0.0331 | 0.100 |
| Vinyl acetate | ND | | 0.102 | 0.500 |
| Vinyl chloride | ND | | 0.0462 | 0.0500 |
| Xylenes, Total | ND | | 0.0352 | 0.260 |
| cis-1,2-Dichloroethene | ND | | 0.0294 | 0.100 |

## Method Blank (MB)

(MB) R4308656-3 12/01/25 10:58

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|---|---|---|---|---|
| cis-1,3-Dichloropropene | ND | | 0.0303 | 0.100 |
| trans-1,2-Dichloroethene | ND | | 0.0416 | 0.200 |
| trans-1,3-Dichloropropene | ND | | 0.0456 | 0.200 |
| trans-1,4-Dichloro-2-butene | ND | | 0.0744 | 0.200 |
| *(S) 1,2-Dichloroethane-d4* | *112* | | | *70.0-130* |
| *(S) Toluene-d8* | *100* | | | *75.0-131* |
| *(S) 4-Bromofluorobenzene* | *93.6* | | | *67.0-138* |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4308656-1 12/01/25 09:17 • (LCSD) R4308656-2 12/01/25 09:37

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCSD Result ug/l | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 10.0 | 9.11 | 9.25 | 91.1 | 92.5 | 74.0-129 | | | 1.53 | 20 |
| 1,1,1-Trichloroethane | 10.0 | 9.90 | 10.7 | 99.0 | 107 | 69.0-126 | | | 7.77 | 20 |
| 1,1,2,2-Tetrachloroethane | 10.0 | 11.1 | 11.6 | 111 | 116 | 68.0-128 | | | 4.41 | 20 |
| 1,1,2-Trichloroethane | 10.0 | 9.79 | 10.4 | 97.9 | 104 | 78.0-123 | | | 6.04 | 20 |
| 1,1-Dichloroethane | 10.0 | 9.64 | 10.1 | 96.4 | 101 | 70.0-127 | | | 4.66 | 20 |
| 1,1-Dichloroethene | 10.0 | 9.71 | 10.3 | 97.1 | 103 | 65.0-131 | | | 5.90 | 20 |
| 1,2-Dichlorobenzene | 10.0 | 9.57 | 9.84 | 95.7 | 98.4 | 76.0-124 | | | 2.78 | 20 |
| 1,2-Dichloroethane | 10.0 | 10.4 | 11.0 | 104 | 110 | 65.0-131 | | | 5.61 | 20 |
| 1,2-Dichloropropane | 10.0 | 10.1 | 10.5 | 101 | 105 | 74.0-125 | | | 3.88 | 20 |
| 1,4-Dichlorobenzene | 10.0 | 9.09 | 9.17 | 90.9 | 91.7 | 77.0-121 | | | 0.876 | 20 |
| 2-Butanone (MEK) | 50.0 | 55.5 | 56.2 | 111 | 112 | 30.0-160 | | | 1.25 | 24 |
| 2-Hexanone | 50.0 | 51.6 | 54.9 | 103 | 110 | 54.0-147 | | | 6.20 | 20 |
| 4-Methyl-2-pentanone (MIBK) | 50.0 | 53.9 | 55.8 | 108 | 112 | 56.0-143 | | | 3.46 | 20 |
| Acetone | 50.0 | 61.5 | 66.4 | 123 | 133 | 10.0-160 | | | 7.66 | 31 |
| Acrylonitrile | 50.0 | 53.3 | 54.1 | 107 | 108 | 45.0-153 | | | 1.49 | 22 |
| Benzene | 10.0 | 9.02 | 9.64 | 90.2 | 96.4 | 70.0-123 | | | 6.65 | 20 |
| Bromochloromethane | 10.0 | 9.27 | 9.89 | 92.7 | 98.9 | 77.0-128 | | | 6.47 | 20 |
| Bromodichloromethane | 10.0 | 9.51 | 9.99 | 95.1 | 99.9 | 73.0-121 | | | 4.92 | 20 |
| Bromoform | 10.0 | 8.49 | 8.75 | 84.9 | 87.5 | 64.0-132 | | | 3.02 | 20 |
| Bromomethane | 10.0 | 13.7 | 14.7 | 137 | 147 | 56.0-147 | | | 7.04 | 20 |
| Carbon disulfide | 10.0 | 9.27 | 9.59 | 92.7 | 95.9 | 56.0-133 | | | 3.39 | 20 |
| Carbon tetrachloride | 10.0 | 10.1 | 10.6 | 101 | 106 | 66.0-128 | | | 4.83 | 20 |
| Chlorobenzene | 10.0 | 8.88 | 9.23 | 88.8 | 92.3 | 76.0-128 | | | 3.87 | 20 |
| Chloroethane | 10.0 | 11.6 | 12.2 | 116 | 122 | 61.0-134 | | | 5.04 | 20 |
| Chloroform | 10.0 | 9.41 | 9.89 | 94.1 | 98.9 | 72.0-123 | | | 4.97 | 20 |
| Chloromethane | 10.0 | 10.4 | 10.9 | 104 | 109 | 51.0-138 | | | 4.69 | 20 |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4308656-1 12/01/25 09:17 • (LCSD) R4308656-2 12/01/25 09:37

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCSD Result ug/l | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Dibromochloromethane | 10.0 | 9.51 | 9.55 | 95.1 | 95.5 | 74.0-127 | | | 0.420 | 20 |
| Dibromomethane | 10.0 | 10.5 | 10.7 | 105 | 107 | 75.0-122 | | | 1.89 | 20 |
| Ethylbenzene | 10.0 | 8.77 | 9.01 | 87.7 | 90.1 | 74.0-126 | | | 2.70 | 20 |
| Iodomethane | 50.0 | 52.7 | 54.5 | 105 | 109 | 74.0-134 | | | 3.36 | 20 |
| Methylene Chloride | 10.0 | 9.41 | 9.63 | 94.1 | 96.3 | 68.0-123 | | | 2.31 | 20 |
| Styrene | 10.0 | 8.61 | 8.91 | 86.1 | 89.1 | 72.0-127 | | | 3.42 | 20 |
| Tetrachloroethene | 10.0 | 8.39 | 9.11 | 83.9 | 91.1 | 70.0-136 | | | 8.23 | 20 |
| Toluene | 10.0 | 9.09 | 9.48 | 90.9 | 94.8 | 75.0-121 | | | 4.20 | 20 |
| Trichloroethene | 10.0 | 9.14 | 9.86 | 91.4 | 98.6 | 76.0-126 | | | 7.58 | 20 |
| Trichlorofluoromethane | 10.0 | 9.63 | 10.2 | 96.3 | 102 | 61.0-142 | | | 5.75 | 20 |
| Vinyl acetate | 50.0 | 56.9 | 57.8 | 114 | 116 | 43.0-159 | | | 1.57 | 20 |
| Vinyl chloride | 10.0 | 11.0 | 12.0 | 110 | 120 | 63.0-134 | | | 8.70 | 20 |
| Xylenes, Total | 30.0 | 24.0 | 24.9 | 80.0 | 83.0 | 72.0-127 | | | 3.68 | 20 |
| cis-1,2-Dichloroethene | 10.0 | 9.00 | 9.40 | 90.0 | 94.0 | 73.0-125 | | | 4.35 | 20 |
| cis-1,3-Dichloropropene | 10.0 | 9.90 | 10.1 | 99.0 | 101 | 76.0-127 | | | 2.00 | 20 |
| trans-1,2-Dichloroethene | 10.0 | 9.55 | 10.2 | 95.5 | 102 | 71.0-125 | | | 6.58 | 20 |
| trans-1,3-Dichloropropene | 10.0 | 10.0 | 10.3 | 100 | 103 | 73.0-127 | | | 2.96 | 20 |
| trans-1,4-Dichloro-2-butene | 10.0 | 14.3 | 11.5 | 143 | 115 | 45.0-143 | | J3 | 21.7 | 20 |
| *(S) 1,2-Dichloroethane-d4* | | | | *113* | *110* | *70.0-130* | | | | |
| *(S) Toluene-d8* | | | | *99.9* | *98.8* | *75.0-131* | | | | |
| *(S) 4-Bromofluorobenzene* | | | | *95.3* | *96.7* | *67.0-138* | | | | |

# GLOSSARY OF TERMS

## Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

## Abbreviations and Definitions

| | |
|---|---|
| MDL | Method Detection Limit. |
| ND | Not detected at the Reporting Limit (or MDL where applicable). |
| RDL | Reported Detection Limit. |
| Rec. | Recovery. |
| RPD | Relative Percent Difference. |
| SDG | Sample Delivery Group. |
| (S) | Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media. |
| Analyte | The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported. |
| Dilution | If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor. |
| Limits | These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges. |
| Original Sample | The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG. |
| Qualifier | This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable. |
| Result | The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte. |
| Uncertainty (Radiochemistry) | Confidence level of 2 sigma. |
| U (Radiochemistry) | Result + Error < MDA. |
| J (Radiochemistry) | Result < MDA; Result + Error > MDA. |
| Case Narrative (Cn) | A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report. |
| Quality Control Summary (Qc) | This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material. |
| Sample Chain of Custody (Sc) | This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis. |
| Sample Results (Sr) | This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported. |
| Sample Summary (Ss) | This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis. |

| Qualifier | Description |
|---|---|
| J | The identification of the analyte is acceptable; the reported value is an estimate. |
| J3 | The associated batch QC was outside the established quality control range for precision. |

# ACCREDITATIONS & LOCATIONS

## Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

| | | | |
|---|---|---|---|
| Alabama | 40660 | Nebraska | NE-OS-15-05 |
| Alaska | 17-026 | Nevada | TN000032021-1 |
| Arizona | AZ0612 | New Hampshire | 2975 |
| Arkansas | 88-0469 | New Jersey–NELAP | TN002 |
| California | 2932 | New Mexico [1] | TN00003 |
| Colorado | TN00003 | New York | 11742 |
| Connecticut | PH-0197 | North Carolina | Env375 |
| Florida | E87487 | North Carolina [1] | DW21704 |
| Georgia | NELAP | North Carolina [3] | 41 |
| Georgia [1] | 923 | North Dakota | R-140 |
| Idaho | TN00003 | Ohio–VAP | CL0069 |
| Illinois | 200008 | Oklahoma | 9915 |
| Indiana | C-TN-01 | Oregon | TN200002 |
| Iowa | 364 | Pennsylvania | 68-02979 |
| Kansas | E-10277 | Rhode Island | LA000356 |
| Kentucky [1 6] | KY90010 | South Carolina | 84004002 |
| Kentucky [2] | 16 | South Dakota | n/a |
| Louisiana | AI30792 | Tennessee [1 4] | 2006 |
| Louisiana | LA018 | Texas | T104704245-20-18 |
| Maine | TN00003 | Texas [5] | LAB0152 |
| Maryland | 324 | Utah | TN000032021-11 |
| Massachusetts | M-TN003 | Vermont | VT2006 |
| Michigan | 9958 | Virginia | 110033 |
| Minnesota | 047-999-395 | Washington | C847 |
| Mississippi | TN00003 | West Virginia | 233 |
| Missouri | 340 | Wisconsin | 998093910 |
| Montana | CERT0086 | Wyoming | A2LA |
| A2LA – ISO 17025 | 1461.01 | AIHA-LAP,LLC EMLAP | 100789 |
| A2LA – ISO 17025 [5] | 1461.02 | DOD | 1461.01 |
| Canada | 1461.01 | USDA | P330-15-00234 |
| EPA–Crypto | TN00003 | | |

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

Company Name/Address:
**Dickinson Landfill**
**C/O Spruce Ridge 12755 137th Street**
**Glencoe, MN 55336**

Billing Information:
**Accounts Payable/ddemory@wm.com**
**PO Box 4745**
**Portland, OR 97208-4745**

Pres Chk

Report to: **Andy McCain 320-864-5503**

Email To: **ddemory@wm.com;cory.anderson2@stantec.co**

Project Description: **MW-41A Background**

City/State Collected: Milford/IA29

Please Circle: PT MT CT ET

Regulatory Program(DOD,RCRA,DW,etc):

Client Project # **200**

Lab Project # **WMDICIA-00012**

Collected by (print): DF

Site/Facility ID # **IA01**

P.O. #

Collected by (signature): DF

Immediately Packed on Ice N___ Y X

***Rush?*** (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day ___ STD TAT

Quote #

Date Results Needed

| Sample ID | Comp/Grab | Matrix * | Depth | Date | Time | No. of Cntrs | Metals 250mlHDPE-HNO3 | TSS 1L-HDPE NoPres | V524LL 40mlAmb-AscAcid+HCl | V524LL 40mlAmb-HCl-Blk | V8260ULLC 40mlAmb-HCl | V8260ULLC 40mlAmb-HCl-Blk | Remarks | Sample # (lab only) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-41A | Grab | GW | | 11-24-25 | 1016 | 3 | X | X | X | | X | | | -01 |
| TRIP BLANK | | GW | | 1 | 800 | 4 | | | | X | | X | | -02 |

Analysis / Container / Preservative

Chain of Custody Page ___ of ___

Pace
PEOPLE ADVANCING SCIENCE

**MT JULIET, TN**

12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # 1922885

**D248**

Acctnum: **WMDICIA**
Template: **T280596**
Prelogin: **P1178046**
PM: **3564 - Chad A Upchurch**
PB:
Shipped Via: **FedEx Ground**

* Matrix:
**SS** - Soil **AIR** - Air **F** - Filter
**GW** - Groundwater **B** - Bioassay
**WW** - WasteWater
**DW** - Drinking Water
**OT** - Other_____

**Remarks:**

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking # 4493 5932 4773

Sample Receipt Checklist
COC Seal Present/Intact: __NP X Y __N
COC Signed/Accurate: X Y __N
Bottles arrive intact: X Y __N
Correct bottles used: X Y __N
Sufficient volume sent: X Y __N
If Applicable
VOA Zero Headspace: __Y __N
Preservation Correct/Checked: __Y __N
RAD Screen <0.5 mR/hr: X Y __N

| Relinquished by : (Signature) | Date: | Time: | Received by: (Signature) | Trip Blank Received: Yes / No HCL / MeoH TBR | If preservation required by Login: Date/Time |
|---|---|---|---|---|---|
| DF | 11-24-25 | 1345 | | 4 | |
| Relinquished by : (Signature) | Date: | Time: | Received by: (Signature) | Temp: °C Bottles Received: | |
| | | | | EDA 2.3 to 2.3 8 | |
| Relinquished by : (Signature) | Date: | Time: | Received for lab by: (Signature) | Date: 11/26/25 Time: 0930 | Hold: Condition: NCF / OK |

# FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: Dickinson SLF

Site No.: ____ Sample Point: MW-41A (Sample ID)

**This Waste Management Field Information Form is Required**
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID: L1922885

## PURGE INFO

| PURGE DATE (MM DD YY) | PURGE TIME (2400 Hr Clock) | ELAPSED HRS (hrs:min) | WATER VOL IN CASING (Gallons) | ACTUAL VOL PURGED (Gallons) | WELL VOLs PURGED |
|---|---|---|---|---|---|
| 11 24 25 | 10:05 | :11 | 14 | 15 | 20 |

*Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.*

## PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment … Dedicated: (Y) or N

Purging Device: C — Sampling Device: C

A- Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

X-Other:

Filter Device: Y or (N) — 0.45 µ or ____ µ (circle or fill in)

Filter Type: —

A-In-line Disposable, B-Pressure, C-Vacuum, X-Other ____

Sample Tube Type: D

A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other: ____

## WELL DATA

Well Elevation (at TOC): 1483.22 (ft/msl)

Depth to Water (DTW) (from TOC): 24.15 (ft)

Groundwater Elevation (site datum, from TOC): 1459.07 (ft/msl)

Total Well Depth (from TOC): 32.57 (ft)

Stick Up (from ground elevation): ____ (ft)

Casing ID: 2 (in)

Casing Material: PVC

*Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.*

## STABILIZATION DATA (Optional)

| Sample Time (2400 Hr Clock) | Rate/Unit | pH (std) | Conductance (SC/EC) (µmhos/cm @ 25 °C) | Temp. (°C) | Turbidity (ntu) | D.O. (mg/L - ppm) | eH/ORP (mV) | DTW (ft) |
|---|---|---|---|---|---|---|---|---|
| 10:08 | 0.5 1st | 6.89 1st | 1398 1st | 11.7 1st | 37.7 1st | 4.5 1st | 112.4 1st | 26.8 1st |
| 10:11 | 0.5 2nd | 6.98 2nd | 1397 2nd | 11.8 2nd | 45.0 2nd | 5.0 2nd | 113.8 2nd | Below Pump 2nd |
| | 3rd | 3rd | 3rd | 3rd | 3rd | 3rd | 3rd | 3rd |
| | 4th | 4th | 4th | 4th | 4th | 4th | 4th | 4th |
| 10:16 | 0.5 | 6.83 | 1360 | 11.4 | 12.6 | 1.5 | 95.3 | Below Pump |
| Suggested range for 3 consec. readings or note Permit/State requirements: | | +/- 0.2 | +/- 3% | -- | -- | +/- 10% | +/- 25 mV | Stabilize |

Recharge

**Stabilization Data Fields are Optional** *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form*

## FIELD DATA

| SAMPLE DATE (MM DD YY) | pH (std) | CONDUCTANCE (umhos/cm @ 25°C) | TEMP. (°C) | TURBIDITY (ntu) | DO (mg/L-ppm) | eH/ORP (mV) | Other: Units |
|---|---|---|---|---|---|---|---|
| 11 24 25 | 6.83 | 1360 | 11.4 | 12.6 | 1.5 | 95.3 | ____ |

**Final Field Readings are required** *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

**Sample Appearance:** Sl. Cloudy — Odor: None — Color: None — Other: None

**Weather Conditions** (required daily, or as conditions change): Direction/Speed: SW/8 — Outlook: 46/Cloudy — Precipitation: Y or (N)

**Specific Comments (including purge/well volume calculations if required):**

## FIELD COMMENTS

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

| Date | Name | Signature | Company |
|---|---|---|---|
| 11/24/25 | DF | DF | MVTL |

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client

ORIGINAL COPY

# ANALYTICAL REPORT

January 13, 2026



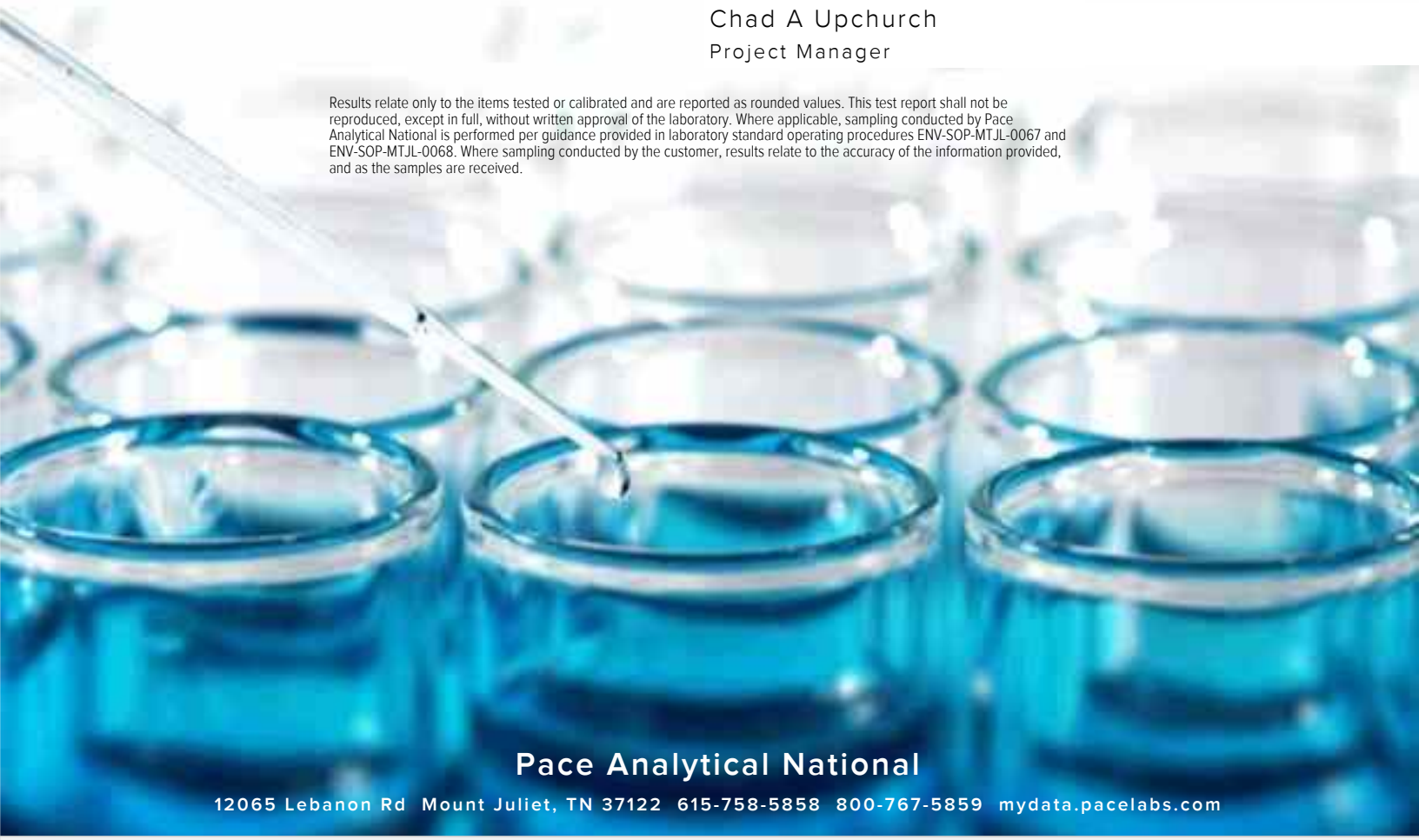
## Dickinson Landfill

| | |
|---|---|
| Sample Delivery Group: | L1930754 |
| Samples Received: | 12/23/2025 |
| Project Number: | 200 |
| Description: | MW-41A Background |
| Site: | IA01 |
| Report To: | Andy McCain<br>C/O Spruce Ridge 12755 137th Street<br>Glencoe, MN 55336 |

Entire Report Reviewed By:

Chad A Upchurch
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



Pace Analytical National
12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 mydata.pacelabs.com

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# SAMPLE SUMMARY

## MW-41A L1930754-01

Collected by: NM | Collected date/time: 12/22/25 10:55 | Received date/time: 12/23/25 09:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Gravimetric Analysis by Method 2540 D-2011 | WG2664425 | 1 | 12/23/25 16:49 | 12/23/25 18:11 | SK | Mt. Juliet, TN |
| Metals (ICP) by Method 6010C | WG2664674 | 1 | 12/25/25 10:11 | 12/26/25 13:39 | BAG | Mt. Juliet, TN |
| Metals (ICPMS) by Method 6020A | WG2664695 | 1 | 12/27/25 10:09 | 01/06/26 01:15 | JDB | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG2663468 | 1 | 12/26/25 16:05 | 12/26/25 16:05 | BRA | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG2664746 | 1 | 12/24/25 14:35 | 12/24/25 14:35 | JHH | Mt. Juliet, TN |

## TRIP BLANK L1930754-02

Collected by: NM | Collected date/time: 12/22/25 07:45 | Received date/time: 12/23/25 09:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst | Location |
|---|---|---|---|---|---|---|
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG2663468 | 1 | 12/26/25 13:56 | 12/26/25 13:56 | BRA | Mt. Juliet, TN |
| Volatile Organic Compounds (GC/MS) by Method 8260C | WG2664746 | 1 | 12/24/25 11:43 | 12/24/25 11:43 | WHS | Mt. Juliet, TN |

Unless qualified or notated within the narrative below, all sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Chad A Upchurch
Project Manager

## Project Comments

The requested project specific reporting limits may be less than laboratory standard quantitation limits (PQL) but will be greater than or equal to the laboratory method detection limits (MDL). It is noted that results reported below lab standard quantitation limits (PQLs) may result in false positive/false negative values that may require additional laboratory quality assurance review, if requested. Routine laboratory procedures do not initiate a data review process for detections below the laboratory's PQL unless requested by the client.

## Gravimetric Analysis by Method 2540 D-2011

The associated batch QC was outside the established quality control range for precision.

| Batch | Lab Sample ID | Analytes |
|---|---|---|
| WG2664425 | (DUP) R4318659-3 | Suspended Solids |

## Volatile Organic Compounds (GC/MS) by Method 8260C

The reported concentration is an estimate. The continuing calibration standard associated with this data responded high. Data is likely to show a high bias concerning the result.

| Batch | Lab Sample ID | Analytes |
|---|---|---|
| WG2664746 | L1930754-01 | Acetone |

## Additional Information - Results for field analyses are not accredited to ISO 17025

| Analyte | Result | Units |
|---|---|---|
| Depth to water (DTW) (FROM TOC) | 25.35 | ftmsl |
| pH (On Site) | 6.66 | su |
| Specific Conductance (on site) | 1218 | umhos/cm |
| Temperature (on-site) | 11.6 | Deg. C |
| Turbidity (on-site) | 1.4 | NTU |
| Dissolved Oxygen (on-site) | 2 | mg/l |
| eH/ORP ( On Site ) | 79.6 | mV |

## Gravimetric Analysis by Method 2540 D-2011

| Analyte | Result | Qualifier | RL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|
| | mg/l | | mg/l | | date / time | |
| Suspended Solids | 24.3 | | 2.50 | 1 | 12/23/2025 18:11 | WG2664425 |

## Metals (ICP) by Method 6010C

| Analyte | Result | Qualifier | RL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|
| | mg/l | | mg/l | | date / time | |
| Silver | ND | | 0.0100 | 1 | 12/26/2025 13:39 | WG2664674 |
| Arsenic | ND | | 0.0100 | 1 | 12/26/2025 13:39 | WG2664674 |
| Barium | 0.0959 | | 0.0200 | 1 | 12/26/2025 13:39 | WG2664674 |
| Beryllium | ND | | 0.00400 | 1 | 12/26/2025 13:39 | WG2664674 |
| Cadmium | ND | | 0.00500 | 1 | 12/26/2025 13:39 | WG2664674 |
| Chromium | ND | | 0.0100 | 1 | 12/26/2025 13:39 | WG2664674 |
| Copper | ND | | 0.0100 | 1 | 12/26/2025 13:39 | WG2664674 |
| Nickel | ND | | 0.0100 | 1 | 12/26/2025 13:39 | WG2664674 |
| Lead | ND | | 0.0100 | 1 | 12/26/2025 13:39 | WG2664674 |
| Vanadium | ND | | 0.0200 | 1 | 12/26/2025 13:39 | WG2664674 |
| Zinc | ND | | 0.0500 | 1 | 12/26/2025 13:39 | WG2664674 |

## Metals (ICPMS) by Method 6020A

| Analyte | Result | Qualifier | RL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|
| | mg/l | | mg/l | | date / time | |
| Cobalt | ND | | 0.00200 | 1 | 01/06/2026 01:15 | WG2664695 |
| Antimony | ND | | 0.00600 | 1 | 01/06/2026 01:15 | WG2664695 |
| Selenium | ND | | 0.0100 | 1 | 01/06/2026 01:15 | WG2664695 |
| Thallium | ND | | 0.00200 | 1 | 01/06/2026 01:15 | WG2664695 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result | Qualifier | RL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|
| | ug/l | | ug/l | | date / time | |
| 1,1,1,2-Tetrachloroethane | ND | | 1.00 | 1 | 12/24/2025 14:35 | WG2664746 |
| 1,2,3-Trichloropropane | ND | | 0.00580 | 1 | 12/26/2025 16:05 | WG2663468 |
| 1,1,1-Trichloroethane | ND | | 1.00 | 1 | 12/24/2025 14:35 | WG2664746 |
| 1,2-Dibromo-3-Chloropropane | ND | | 0.200 | 1 | 12/26/2025 16:05 | WG2663468 |
| 1,1,2,2-Tetrachloroethane | ND | | 0.300 | 1 | 12/24/2025 14:35 | WG2664746 |
| 1,2-Dibromoethane | ND | | 0.0500 | 1 | 12/26/2025 16:05 | WG2663468 |
| 1,1,2-Trichloroethane | ND | | 1.00 | 1 | 12/24/2025 14:35 | WG2664746 |
| 1,1-Dichloroethane | ND | | 1.00 | 1 | 12/24/2025 14:35 | WG2664746 |
| 1,1-Dichloroethene | ND | | 1.00 | 1 | 12/24/2025 14:35 | WG2664746 |
| 1,2-Dichlorobenzene | ND | | 1.00 | 1 | 12/24/2025 14:35 | WG2664746 |
| 1,2-Dichloroethane | ND | | 1.00 | 1 | 12/24/2025 14:35 | WG2664746 |
| 1,2-Dichloropropane | ND | | 1.00 | 1 | 12/24/2025 14:35 | WG2664746 |
| 1,4-Dichlorobenzene | ND | | 1.00 | 1 | 12/24/2025 14:35 | WG2664746 |
| 2-Butanone (MEK) | ND | | 10.0 | 1 | 12/24/2025 14:35 | WG2664746 |
| 2-Hexanone | ND | | 5.00 | 1 | 12/24/2025 14:35 | WG2664746 |

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result ug/l | Qualifier | RL ug/l | Dilution | Analysis date / time | Batch |
|---|---|---|---|---|---|---|
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.00 | 1 | 12/24/2025 14:35 | WG2664746 |
| Acetone | ND | C5 | 25.0 | 1 | 12/24/2025 14:35 | WG2664746 |
| Acrylonitrile | ND | | 0.320 | 1 | 12/24/2025 14:35 | WG2664746 |
| Benzene | ND | | 1.00 | 1 | 12/24/2025 14:35 | WG2664746 |
| Bromochloromethane | ND | | 1.00 | 1 | 12/24/2025 14:35 | WG2664746 |
| Bromodichloromethane | ND | | 1.00 | 1 | 12/24/2025 14:35 | WG2664746 |
| Bromoform | ND | | 1.00 | 1 | 12/24/2025 14:35 | WG2664746 |
| Bromomethane | ND | | 2.50 | 1 | 12/24/2025 14:35 | WG2664746 |
| Carbon disulfide | ND | | 1.00 | 1 | 12/24/2025 14:35 | WG2664746 |
| Carbon tetrachloride | ND | | 1.00 | 1 | 12/24/2025 14:35 | WG2664746 |
| Chlorobenzene | ND | | 1.00 | 1 | 12/24/2025 14:35 | WG2664746 |
| Chloroethane | ND | | 2.50 | 1 | 12/24/2025 14:35 | WG2664746 |
| Chloroform | ND | | 1.00 | 1 | 12/24/2025 14:35 | WG2664746 |
| Chloromethane | ND | | 1.25 | 1 | 12/24/2025 14:35 | WG2664746 |
| Dibromochloromethane | ND | | 1.00 | 1 | 12/24/2025 14:35 | WG2664746 |
| Dibromomethane | ND | | 1.00 | 1 | 12/24/2025 14:35 | WG2664746 |
| Ethylbenzene | ND | | 1.00 | 1 | 12/24/2025 14:35 | WG2664746 |
| Iodomethane | ND | | 10.0 | 1 | 12/24/2025 14:35 | WG2664746 |
| Methylene Chloride | ND | | 2.50 | 1 | 12/24/2025 14:35 | WG2664746 |
| Styrene | ND | | 1.00 | 1 | 12/24/2025 14:35 | WG2664746 |
| Tetrachloroethene | ND | | 1.00 | 1 | 12/24/2025 14:35 | WG2664746 |
| Toluene | ND | | 1.00 | 1 | 12/24/2025 14:35 | WG2664746 |
| Trichloroethene | ND | | 1.00 | 1 | 12/24/2025 14:35 | WG2664746 |
| Trichlorofluoromethane | ND | | 2.50 | 1 | 12/24/2025 14:35 | WG2664746 |
| Vinyl acetate | ND | | 5.00 | 1 | 12/24/2025 14:35 | WG2664746 |
| Vinyl chloride | ND | | 1.00 | 1 | 12/24/2025 14:35 | WG2664746 |
| Xylenes, Total | ND | | 3.00 | 1 | 12/24/2025 14:35 | WG2664746 |
| cis-1,2-Dichloroethene | ND | | 1.00 | 1 | 12/24/2025 14:35 | WG2664746 |
| cis-1,3-Dichloropropene | ND | | 1.00 | 1 | 12/24/2025 14:35 | WG2664746 |
| trans-1,2-Dichloroethene | ND | | 1.00 | 1 | 12/24/2025 14:35 | WG2664746 |
| trans-1,3-Dichloropropene | ND | | 1.00 | 1 | 12/24/2025 14:35 | WG2664746 |
| trans-1,4-Dichloro-2-butene | ND | | 1.00 | 1 | 12/24/2025 14:35 | WG2664746 |
| *(S) 1,2-Dichloroethane-d4* | *116* | | | *70.0-130* | *12/24/2025 14:35* | WG2664746 |
| *(S) Toluene-d8* | *96.7* | | | *75.0-131* | *12/24/2025 14:35* | WG2664746 |
| *(S) 4-Bromofluorobenzene* | *96.1* | | | *67.0-138* | *12/24/2025 14:35* | WG2664746 |

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

## Volatile Organic Compounds (GC/MS) by Method 8260C

| Analyte | Result | Qualifier | RL | Dilution | Analysis | Batch |
|---|---|---|---|---|---|---|
| | ug/l | | ug/l | | date / time | |
| 1,1,1,2-Tetrachloroethane | ND | | 1.00 | 1 | 12/24/2025 11:43 | WG2664746 |
| 1,2,3-Trichloropropane | ND | | 0.00580 | 1 | 12/26/2025 13:56 | WG2663468 |
| 1,1,1-Trichloroethane | ND | | 1.00 | 1 | 12/24/2025 11:43 | WG2664746 |
| 1,2-Dibromo-3-Chloropropane | ND | | 0.200 | 1 | 12/26/2025 13:56 | WG2663468 |
| 1,1,2,2-Tetrachloroethane | ND | | 0.300 | 1 | 12/24/2025 11:43 | WG2664746 |
| 1,2-Dibromoethane | ND | | 0.0500 | 1 | 12/26/2025 13:56 | WG2663468 |
| 1,1,2-Trichloroethane | ND | | 1.00 | 1 | 12/24/2025 11:43 | WG2664746 |
| 1,1-Dichloroethane | ND | | 1.00 | 1 | 12/24/2025 11:43 | WG2664746 |
| 1,1-Dichloroethene | ND | | 1.00 | 1 | 12/24/2025 11:43 | WG2664746 |
| 1,2-Dichlorobenzene | ND | | 1.00 | 1 | 12/24/2025 11:43 | WG2664746 |
| 1,2-Dichloroethane | ND | | 1.00 | 1 | 12/24/2025 11:43 | WG2664746 |
| 1,2-Dichloropropane | ND | | 1.00 | 1 | 12/24/2025 11:43 | WG2664746 |
| 1,4-Dichlorobenzene | ND | | 1.00 | 1 | 12/24/2025 11:43 | WG2664746 |
| 2-Butanone (MEK) | ND | | 10.0 | 1 | 12/24/2025 11:43 | WG2664746 |
| 2-Hexanone | ND | | 5.00 | 1 | 12/24/2025 11:43 | WG2664746 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.00 | 1 | 12/24/2025 11:43 | WG2664746 |
| Acetone | ND | | 25.0 | 1 | 12/24/2025 11:43 | WG2664746 |
| Acrylonitrile | ND | | 0.320 | 1 | 12/24/2025 11:43 | WG2664746 |
| Benzene | ND | | 1.00 | 1 | 12/24/2025 11:43 | WG2664746 |
| Bromochloromethane | ND | | 1.00 | 1 | 12/24/2025 11:43 | WG2664746 |
| Bromodichloromethane | ND | | 1.00 | 1 | 12/24/2025 11:43 | WG2664746 |
| Bromoform | ND | | 1.00 | 1 | 12/24/2025 11:43 | WG2664746 |
| Bromomethane | ND | | 2.50 | 1 | 12/24/2025 11:43 | WG2664746 |
| Carbon disulfide | ND | | 1.00 | 1 | 12/24/2025 11:43 | WG2664746 |
| Carbon tetrachloride | ND | | 1.00 | 1 | 12/24/2025 11:43 | WG2664746 |
| Chlorobenzene | ND | | 1.00 | 1 | 12/24/2025 11:43 | WG2664746 |
| Chloroethane | ND | | 2.50 | 1 | 12/24/2025 11:43 | WG2664746 |
| Chloroform | ND | | 1.00 | 1 | 12/24/2025 11:43 | WG2664746 |
| Chloromethane | ND | | 1.25 | 1 | 12/24/2025 11:43 | WG2664746 |
| Dibromochloromethane | ND | | 1.00 | 1 | 12/24/2025 11:43 | WG2664746 |
| Dibromomethane | ND | | 1.00 | 1 | 12/24/2025 11:43 | WG2664746 |
| Ethylbenzene | ND | | 1.00 | 1 | 12/24/2025 11:43 | WG2664746 |
| Iodomethane | ND | | 10.0 | 1 | 12/24/2025 11:43 | WG2664746 |
| Methylene Chloride | ND | | 2.50 | 1 | 12/24/2025 11:43 | WG2664746 |
| Styrene | ND | | 1.00 | 1 | 12/24/2025 11:43 | WG2664746 |
| Tetrachloroethene | ND | | 1.00 | 1 | 12/24/2025 11:43 | WG2664746 |
| Toluene | ND | | 1.00 | 1 | 12/24/2025 11:43 | WG2664746 |
| Trichloroethene | ND | | 1.00 | 1 | 12/24/2025 11:43 | WG2664746 |
| Trichlorofluoromethane | ND | | 2.50 | 1 | 12/24/2025 11:43 | WG2664746 |
| Vinyl acetate | ND | | 5.00 | 1 | 12/24/2025 11:43 | WG2664746 |
| Vinyl chloride | ND | | 1.00 | 1 | 12/24/2025 11:43 | WG2664746 |
| Xylenes, Total | ND | | 3.00 | 1 | 12/24/2025 11:43 | WG2664746 |
| cis-1,2-Dichloroethene | ND | | 1.00 | 1 | 12/24/2025 11:43 | WG2664746 |
| cis-1,3-Dichloropropene | ND | | 1.00 | 1 | 12/24/2025 11:43 | WG2664746 |
| trans-1,2-Dichloroethene | ND | | 1.00 | 1 | 12/24/2025 11:43 | WG2664746 |
| trans-1,3-Dichloropropene | ND | | 1.00 | 1 | 12/24/2025 11:43 | WG2664746 |
| trans-1,4-Dichloro-2-butene | ND | | 1.00 | 1 | 12/24/2025 11:43 | WG2664746 |
| *(S) 1,2-Dichloroethane-d4* | *120* | | | *70.0-130* | *12/24/2025 11:43* | WG2664746 |
| *(S) Toluene-d8* | *95.9* | | | *75.0-131* | *12/24/2025 11:43* | WG2664746 |
| *(S) 4-Bromofluorobenzene* | *101* | | | *67.0-138* | *12/24/2025 11:43* | WG2664746 |

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

## Method Blank (MB)

(MB) R4318659-1 12/23/25 18:11

| Analyte | MB Result mg/l | MB Qualifier | MB MDL mg/l | MB RDL mg/l |
|---|---|---|---|---|
| Suspended Solids | ND | | 0.350 | 2.50 |

## L1930753-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1930753-01 12/23/25 18:11 • (DUP) R4318659-3 12/23/25 18:11

| Analyte | Original Result mg/l | DUP Result mg/l | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|---|---|---|---|---|---|---|
| Suspended Solids | 95.0 | 106 | 1 | 10.9 | J3 | 10 |

## L1930804-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1930804-01 12/23/25 18:11 • (DUP) R4318659-4 12/23/25 18:11

| Analyte | Original Result mg/l | DUP Result mg/l | Dilution | DUP RPD % | DUP Qualifier | DUP RPD Limits % |
|---|---|---|---|---|---|---|
| Suspended Solids | 88.0 | 90.0 | 1 | 2.25 | | 10 |

## Laboratory Control Sample (LCS)

(LCS) R4318659-2 12/23/25 18:11

| Analyte | Spike Amount mg/l | LCS Result mg/l | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Suspended Solids | 773 | 762 | 98.6 | 85.0-115 | |

## Method Blank (MB)

(MB) R4319347-1 12/26/25 13:35

| Analyte | MB Result mg/l | MB Qualifier | MB MDL mg/l | MB RDL mg/l |
|---|---|---|---|---|
| Silver | ND | | 0.00280 | 0.00500 |
| Arsenic | ND | | 0.00650 | 0.0100 |
| Barium | ND | | 0.00170 | 0.00500 |
| Beryllium | ND | | 0.000700 | 0.00200 |
| Cadmium | ND | | 0.000700 | 0.00200 |
| Chromium | ND | | 0.00140 | 0.0100 |
| Copper | ND | | 0.00530 | 0.0100 |
| Nickel | ND | | 0.00490 | 0.0100 |
| Lead | ND | | 0.00190 | 0.00500 |
| Vanadium | ND | | 0.00240 | 0.0200 |
| Zinc | ND | | 0.00590 | 0.0500 |

## Laboratory Control Sample (LCS)

(LCS) R4319347-2 12/26/25 13:37

| Analyte | Spike Amount mg/l | LCS Result mg/l | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Silver | 0.200 | 0.205 | 103 | 80.0-120 | |
| Arsenic | 1.00 | 1.02 | 102 | 80.0-120 | |
| Barium | 1.00 | 1.08 | 108 | 80.0-120 | |
| Beryllium | 1.00 | 1.07 | 107 | 80.0-120 | |
| Cadmium | 1.00 | 1.03 | 103 | 80.0-120 | |
| Chromium | 1.00 | 1.06 | 106 | 80.0-120 | |
| Copper | 1.00 | 1.04 | 104 | 80.0-120 | |
| Nickel | 1.00 | 1.00 | 100 | 80.0-120 | |
| Lead | 1.00 | 1.01 | 101 | 80.0-120 | |
| Vanadium | 1.00 | 1.04 | 104 | 80.0-120 | |
| Zinc | 1.00 | 1.05 | 105 | 80.0-120 | |

## L1930754-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1930754-01 12/26/25 13:39 • (MS) R4319347-4 12/26/25 13:44 • (MSD) R4319347-5 12/26/25 13:47

| Analyte | Spike Amount mg/l | Original Result mg/l | MS Result mg/l | MSD Result mg/l | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Silver | 0.200 | ND | 0.207 | 0.209 | 103 | 105 | 1 | 75.0-125 | | | 1.03 | 20 |
| Arsenic | 1.00 | ND | 1.02 | 1.05 | 102 | 105 | 1 | 75.0-125 | | | 2.93 | 20 |
| Barium | 1.00 | 0.0959 | 1.14 | 1.16 | 105 | 107 | 1 | 75.0-125 | | | 1.98 | 20 |
| Beryllium | 1.00 | ND | 1.02 | 1.06 | 102 | 106 | 1 | 75.0-125 | | | 3.80 | 20 |
| Cadmium | 1.00 | ND | 1.02 | 1.05 | 102 | 105 | 1 | 75.0-125 | | | 2.44 | 20 |

## L1930754-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1930754-01 12/26/25 13:39 • (MS) R4319347-4 12/26/25 13:44 • (MSD) R4319347-5 12/26/25 13:47

| Analyte | Spike Amount mg/l | Original Result mg/l | MS Result mg/l | MSD Result mg/l | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chromium | 1.00 | ND | 1.03 | 1.04 | 103 | 104 | 1 | 75.0-125 | | | 0.567 | 20 |
| Copper | 1.00 | ND | 1.02 | 1.02 | 102 | 101 | 1 | 75.0-125 | | | 0.451 | 20 |
| Nickel | 1.00 | ND | 0.990 | 1.02 | 98.7 | 102 | 1 | 75.0-125 | | | 3.06 | 20 |
| Lead | 1.00 | ND | 0.992 | 1.02 | 99.2 | 102 | 1 | 75.0-125 | | | 2.94 | 20 |
| Vanadium | 1.00 | ND | 0.997 | 1.04 | 99.7 | 104 | 1 | 75.0-125 | | | 3.89 | 20 |
| Zinc | 1.00 | ND | 1.02 | 1.04 | 101 | 103 | 1 | 75.0-125 | | | 2.20 | 20 |

## Method Blank (MB)

(MB) R4321818-1 01/06/26 00:55

| Analyte | MB Result mg/l | MB Qualifier | MB MDL mg/l | MB RDL mg/l |
|---|---|---|---|---|
| Cobalt | ND | | 0.000260 | 0.00200 |
| Antimony | ND | | 0.000754 | 0.00200 |
| Selenium | ND | | 0.000380 | 0.00200 |
| Thallium | ND | | 0.000190 | 0.00200 |

## Laboratory Control Sample (LCS)

(LCS) R4321818-2 01/06/26 00:58

| Analyte | Spike Amount mg/l | LCS Result mg/l | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| Cobalt | 0.0500 | 0.0537 | 107 | 80.0-120 | |
| Antimony | 0.0500 | 0.0516 | 103 | 80.0-120 | |
| Selenium | 0.0500 | 0.0503 | 101 | 80.0-120 | |
| Thallium | 0.0500 | 0.0513 | 103 | 80.0-120 | |

## L1930771-22 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1930771-22 01/06/26 01:01 • (MS) R4321818-4 01/06/26 01:08 • (MSD) R4321818-5 01/06/26 01:12

| Analyte | Spike Amount mg/l | Original Result mg/l | MS Result mg/l | MSD Result mg/l | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Cobalt | 0.0500 | ND | 0.0514 | 0.0518 | 103 | 104 | 1 | 75.0-125 | | | 0.760 | 20 |
| Antimony | 0.0500 | ND | 0.0504 | 0.0502 | 101 | 100 | 1 | 75.0-125 | | | 0.398 | 20 |
| Selenium | 0.0500 | ND | 0.0499 | 0.0501 | 99.8 | 100 | 1 | 75.0-125 | | | 0.302 | 20 |
| Thallium | 0.0500 | ND | 0.0489 | 0.0498 | 97.8 | 99.6 | 1 | 75.0-125 | | | 1.88 | 20 |

## Method Blank (MB)

(MB) R4319702-2 12/26/25 13:34

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|---|---|---|---|---|
| 1,2,3-Trichloropropane | ND | | 0.00200 | 0.00500 |
| 1,2-Dibromo-3-Chloropropane | ND | | 0.000520 | 0.00500 |
| 1,2-Dibromoethane | ND | | 0.00410 | 0.00500 |

## Laboratory Control Sample (LCS)

(LCS) R4319702-1 12/26/25 13:13

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCS Rec. % | Rec. Limits % | LCS Qualifier |
|---|---|---|---|---|---|
| 1,2,3-Trichloropropane | 0.0500 | 0.0630 | 126 | 70.0-130 | |
| 1,2-Dibromo-3-Chloropropane | 0.0500 | 0.0630 | 126 | 70.0-130 | |
| 1,2-Dibromoethane | 0.0500 | 0.0580 | 116 | 70.0-130 | |

## Method Blank (MB)

(MB) R4320019-4 12/24/25 11:12

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ND | | 0.0379 | 0.100 |
| 1,1,1-Trichloroethane | ND | | 0.0369 | 0.100 |
| 1,1,2,2-Tetrachloroethane | ND | | 0.0278 | 0.100 |
| 1,1,2-Trichloroethane | ND | | 0.0239 | 0.100 |
| 1,1-Dichloroethane | ND | | 0.0196 | 0.100 |
| 1,1-Dichloroethene | ND | | 0.0242 | 0.100 |
| 1,2-Dichlorobenzene | ND | | 0.0170 | 0.200 |
| 1,2-Dichloroethane | ND | | 0.0260 | 0.100 |
| 1,2-Dichloropropane | ND | | 0.0568 | 0.200 |
| 1,4-Dichlorobenzene | ND | | 0.0280 | 0.200 |
| 2-Butanone (MEK) | ND | | 2.54 | 4.00 |
| 2-Hexanone | ND | | 0.134 | 1.00 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 0.0912 | 1.00 |
| Acetone | ND | | 1.46 | 2.00 |
| Acrylonitrile | ND | | 0.144 | 0.500 |
| Benzene | ND | | 0.0187 | 0.0400 |
| Bromochloromethane | ND | | 0.0226 | 0.200 |
| Bromodichloromethane | ND | | 0.0290 | 0.100 |
| Bromoform | ND | | 0.0468 | 0.500 |
| Bromomethane | ND | | 0.0788 | 0.500 |
| Carbon disulfide | ND | | 0.0280 | 0.500 |
| Carbon tetrachloride | ND | | 0.0359 | 0.200 |
| Chlorobenzene | ND | | 0.00840 | 0.100 |
| Chloroethane | ND | | 0.0680 | 0.200 |
| Chloroform | ND | | 0.0412 | 0.100 |
| Chloromethane | ND | | 0.174 | 0.500 |
| Dibromochloromethane | ND | | 0.0245 | 0.100 |
| Dibromomethane | ND | | 0.0300 | 0.200 |
| Ethylbenzene | ND | | 0.0295 | 0.100 |
| Iodomethane | ND | | 0.0928 | 0.500 |
| Methylene Chloride | ND | | 0.266 | 1.00 |
| Styrene | ND | | 0.00916 | 0.500 |
| Tetrachloroethene | ND | | 0.0358 | 0.100 |
| Toluene | ND | | 0.0520 | 0.200 |
| Trichloroethene | ND | | 0.0234 | 0.0400 |
| Trichlorofluoromethane | ND | | 0.0331 | 0.100 |
| Vinyl acetate | ND | | 0.102 | 0.500 |
| Vinyl chloride | ND | | 0.0462 | 0.0500 |
| Xylenes, Total | ND | | 0.0352 | 0.260 |
| cis-1,2-Dichloroethene | ND | | 0.0294 | 0.100 |

## Method Blank (MB)

(MB) R4320019-4 12/24/25 11:12

| Analyte | MB Result ug/l | MB Qualifier | MB MDL ug/l | MB RDL ug/l |
|---|---|---|---|---|
| cis-1,3-Dichloropropene | ND | | 0.0303 | 0.100 |
| trans-1,2-Dichloroethene | ND | | 0.0416 | 0.200 |
| trans-1,3-Dichloropropene | ND | | 0.0456 | 0.200 |
| trans-1,4-Dichloro-2-butene | ND | | 0.0744 | 0.200 |
| *(S) 1,2-Dichloroethane-d4* | *119* | | | *70.0-130* |
| *(S) Toluene-d8* | *96.7* | | | *75.0-131* |
| *(S) 4-Bromofluorobenzene* | *98.5* | | | *67.0-138* |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4320019-1 12/24/25 09:18 • (LCSD) R4320019-2 12/24/25 09:37

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCSD Result ug/l | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 10.0 | 9.25 | 9.33 | 92.5 | 93.3 | 74.0-129 | | | 0.861 | 20 |
| 1,1,1-Trichloroethane | 10.0 | 10.9 | 10.5 | 109 | 105 | 69.0-126 | | | 3.74 | 20 |
| 1,1,2,2-Tetrachloroethane | 10.0 | 11.9 | 11.2 | 119 | 112 | 68.0-128 | | | 6.06 | 20 |
| 1,1,2-Trichloroethane | 10.0 | 9.46 | 9.14 | 94.6 | 91.4 | 78.0-123 | | | 3.44 | 20 |
| 1,1-Dichloroethane | 10.0 | 10.3 | 9.84 | 103 | 98.4 | 70.0-127 | | | 4.57 | 20 |
| 1,1-Dichloroethene | 10.0 | 11.6 | 10.9 | 116 | 109 | 65.0-131 | | | 6.22 | 20 |
| 1,2-Dichlorobenzene | 10.0 | 10.9 | 10.6 | 109 | 106 | 76.0-124 | | | 2.79 | 20 |
| 1,2-Dichloroethane | 10.0 | 10.8 | 10.7 | 108 | 107 | 65.0-131 | | | 0.930 | 20 |
| 1,2-Dichloropropane | 10.0 | 9.86 | 9.60 | 98.6 | 96.0 | 74.0-125 | | | 2.67 | 20 |
| 1,4-Dichlorobenzene | 10.0 | 10.1 | 9.79 | 101 | 97.9 | 77.0-121 | | | 3.12 | 20 |
| 2-Butanone (MEK) | 50.0 | 41.5 | 43.5 | 83.0 | 87.0 | 30.0-160 | | | 4.71 | 24 |
| 2-Hexanone | 50.0 | 51.2 | 50.6 | 102 | 101 | 54.0-147 | | | 1.18 | 20 |
| 4-Methyl-2-pentanone (MIBK) | 50.0 | 48.9 | 48.8 | 97.8 | 97.6 | 56.0-143 | | | 0.205 | 20 |
| Acetone | 50.0 | 74.5 | 63.4 | 149 | 127 | 10.0-160 | | | 16.1 | 31 |
| Acrylonitrile | 50.0 | 53.7 | 52.6 | 107 | 105 | 45.0-153 | | | 2.07 | 22 |
| Benzene | 10.0 | 10.1 | 9.76 | 101 | 97.6 | 70.0-123 | | | 3.42 | 20 |
| Bromochloromethane | 10.0 | 10.1 | 10.1 | 101 | 101 | 77.0-128 | | | 0.000 | 20 |
| Bromodichloromethane | 10.0 | 10.5 | 10.2 | 105 | 102 | 73.0-121 | | | 2.90 | 20 |
| Bromoform | 10.0 | 8.63 | 8.54 | 86.3 | 85.4 | 64.0-132 | | | 1.05 | 20 |
| Bromomethane | 10.0 | 11.1 | 11.0 | 111 | 110 | 56.0-147 | | | 0.905 | 20 |
| Carbon disulfide | 10.0 | 11.4 | 10.4 | 114 | 104 | 56.0-133 | | | 9.17 | 20 |
| Carbon tetrachloride | 10.0 | 11.1 | 10.6 | 111 | 106 | 66.0-128 | | | 4.61 | 20 |
| Chlorobenzene | 10.0 | 9.53 | 9.07 | 95.3 | 90.7 | 76.0-128 | | | 4.95 | 20 |
| Chloroethane | 10.0 | 11.2 | 10.8 | 112 | 108 | 61.0-134 | | | 3.64 | 20 |
| Chloroform | 10.0 | 11.0 | 10.7 | 110 | 107 | 72.0-123 | | | 2.76 | 20 |
| Chloromethane | 10.0 | 10.1 | 9.58 | 101 | 95.8 | 51.0-138 | | | 5.28 | 20 |

## Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4320019-1 12/24/25 09:18 • (LCSD) R4320019-2 12/24/25 09:37

| Analyte | Spike Amount ug/l | LCS Result ug/l | LCSD Result ug/l | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---|---|---|---|---|---|---|---|---|---|---|
| Dibromochloromethane | 10.0 | 9.30 | 9.21 | 93.0 | 92.1 | 74.0-127 | | | 0.972 | 20 |
| Dibromomethane | 10.0 | 10.7 | 10.7 | 107 | 107 | 75.0-122 | | | 0.000 | 20 |
| Ethylbenzene | 10.0 | 9.68 | 9.14 | 96.8 | 91.4 | 74.0-126 | | | 5.74 | 20 |
| Iodomethane | 50.0 | 54.1 | 51.4 | 108 | 103 | 74.0-134 | | | 5.12 | 20 |
| Methylene Chloride | 10.0 | 10.3 | 10.0 | 103 | 100 | 68.0-123 | | | 2.96 | 20 |
| Styrene | 10.0 | 9.62 | 9.24 | 96.2 | 92.4 | 72.0-127 | | | 4.03 | 20 |
| Tetrachloroethene | 10.0 | 9.50 | 8.91 | 95.0 | 89.1 | 70.0-136 | | | 6.41 | 20 |
| Toluene | 10.0 | 9.73 | 9.14 | 97.3 | 91.4 | 75.0-121 | | | 6.25 | 20 |
| Trichloroethene | 10.0 | 10.5 | 9.82 | 105 | 98.2 | 76.0-126 | | | 6.69 | 20 |
| Trichlorofluoromethane | 10.0 | 11.2 | 10.7 | 112 | 107 | 61.0-142 | | | 4.57 | 20 |
| Vinyl acetate | 50.0 | 56.3 | 55.5 | 113 | 111 | 43.0-159 | | | 1.43 | 20 |
| Vinyl chloride | 10.0 | 11.1 | 10.1 | 111 | 101 | 63.0-134 | | | 9.43 | 20 |
| Xylenes, Total | 30.0 | 29.1 | 27.3 | 97.0 | 91.0 | 72.0-127 | | | 6.38 | 20 |
| cis-1,2-Dichloroethene | 10.0 | 9.98 | 9.22 | 99.8 | 92.2 | 73.0-125 | | | 7.92 | 20 |
| cis-1,3-Dichloropropene | 10.0 | 10.7 | 10.8 | 107 | 108 | 76.0-127 | | | 0.930 | 20 |
| trans-1,2-Dichloroethene | 10.0 | 9.52 | 9.24 | 95.2 | 92.4 | 71.0-125 | | | 2.99 | 20 |
| trans-1,3-Dichloropropene | 10.0 | 10.3 | 10.3 | 103 | 103 | 73.0-127 | | | 0.000 | 20 |
| trans-1,4-Dichloro-2-butene | 10.0 | 11.8 | 11.7 | 118 | 117 | 45.0-143 | | | 0.851 | 20 |
| *(S) 1,2-Dichloroethane-d4* | | | | *118* | *122* | *70.0-130* | | | | |
| *(S) Toluene-d8* | | | | *94.6* | *93.9* | *75.0-131* | | | | |
| *(S) 4-Bromofluorobenzene* | | | | *96.2* | *97.1* | *67.0-138* | | | | |

# GLOSSARY OF TERMS

## Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

## Abbreviations and Definitions

| | |
|---|---|
| MDL | Method Detection Limit. |
| ND | Not detected at the Reporting Limit (or MDL where applicable). |
| RDL | Reported Detection Limit. |
| Rec. | Recovery. |
| RPD | Relative Percent Difference. |
| SDG | Sample Delivery Group. |
| (S) | Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media. |
| Analyte | The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported. |
| Dilution | If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor. |
| Limits | These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges. |
| Original Sample | The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG. |
| Qualifier | This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable. |
| Result | The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte. |
| Uncertainty (Radiochemistry) | Confidence level of 2 sigma. |
| U (Radiochemistry) | Result + Error < MDA. |
| J (Radiochemistry) | Result < MDA; Result + Error > MDA. |
| Case Narrative (Cn) | A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report. |
| Quality Control Summary (Qc) | This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material. |
| Sample Chain of Custody (Sc) | This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis. |
| Sample Results (Sr) | This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported. |
| Sample Summary (Ss) | This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis. |

| Qualifier | Description |
|---|---|
| C5 | The reported concentration is an estimate. The continuing calibration standard associated with this data responded high. Data is likely to show a high bias concerning the result. |
| J3 | The associated batch QC was outside the established quality control range for precision. |

# ACCREDITATIONS & LOCATIONS

## Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

| | | | |
|---|---|---|---|
| Alabama | 40660 | Nebraska | NE-OS-15-05 |
| Alaska | 17-026 | Nevada | TN000032021-1 |
| Arizona | AZ0612 | New Hampshire | 2975 |
| Arkansas | 88-0469 | New Jersey–NELAP | TN002 |
| California | 2932 | New Mexico [1] | TN00003 |
| Colorado | TN00003 | New York | 11742 |
| Connecticut | PH-0197 | North Carolina | Env375 |
| Florida | E87487 | North Carolina [1] | DW21704 |
| Georgia | NELAP | North Carolina [3] | 41 |
| Georgia [1] | 923 | North Dakota | R-140 |
| Idaho | TN00003 | Ohio–VAP | CL0069 |
| Illinois | 200008 | Oklahoma | 9915 |
| Indiana | C-TN-01 | Oregon | TN200002 |
| Iowa | 364 | Pennsylvania | 68-02979 |
| Kansas | E-10277 | Rhode Island | LA000356 |
| Kentucky [1 6] | KY90010 | South Carolina | 84004002 |
| Kentucky [2] | 16 | South Dakota | n/a |
| Louisiana | AI30792 | Tennessee [1 4] | 2006 |
| Louisiana | LA018 | Texas | T104704245-20-18 |
| Maine | TN00003 | Texas [5] | LAB0152 |
| Maryland | 324 | Utah | TN000032021-11 |
| Massachusetts | M-TN003 | Vermont | VT2006 |
| Michigan | 9958 | Virginia | 110033 |
| Minnesota | 047-999-395 | Washington | C847 |
| Mississippi | TN00003 | West Virginia | 233 |
| Missouri | 340 | Wisconsin | 998093910 |
| Montana | CERT0086 | Wyoming | A2LA |
| A2LA – ISO 17025 | 1461.01 | AIHA-LAP,LLC EMLAP | 100789 |
| A2LA – ISO 17025 [5] | 1461.02 | DOD | 1461.01 |
| Canada | 1461.01 | USDA | P330-15-00234 |
| EPA–Crypto | TN00003 | | |

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

Company Name/Address:
**Dickinson Landfill**
**C/O Spruce Ridge 12755 137th Street**
**Glencoe, MN 55336**

Billing Information:
**Accounts Payable/ddemory@wm.com**
**PO Box 4745**
**Portland, OR 97208-4745**

Report to: **Andy McCain 320-864-5503**

Email To: **ddemory@wm.com;cory.anderson2@stantec.co**

Project Description: **MW-41A Background**

City/State Collected: Milford/Iowa

Please Circle: PT MT CT ET

Regulatory Program(DOD,RCRA,DW,etc):

Client Project # **200**

Lab Project # **WMDICIA-00012**

Collected by (print): NM

Site/Facility ID # **IA01**

P.O. #

Collected by (signature): NM

Immediately Packed on Ice N ___ Y X

***Rush?*** (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day ___ STD TAT

Quote #

Date Results Needed

Analysis / Container / Preservative

Pres Chk

| Sample ID | Comp/Grab | Matrix * | Depth | Date | Time | No. of Cntrs | Metals 250mlHDPE-HNO3 | TSS 1L-HDPE NoPres | V524LL 40mlAmb-AscAcid+HCl | V524LL 40mlAmb-HCl-Blk | V8260ULLC 40mlAmb-HCl | V8260ULLC 40mlAmb-HCl-Blk | Remarks | Sample # (lab only) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-41A | grab | GW | | 12-22-25 | 1055 | 8 | X | X | X | | X | | | -01 |
| TRIP BLANK | | GW | | 1 | 0745 | 4 | | | | X | | X | | -02 |

Chain of Custody Page ___ of ___

Pace
PEOPLE ADVANCING SCIENCE

**MT JULIET, TN**
12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # L1930754

Tab H130

Acctnum: **WMDICIA**
Template: **T280596**
Prelogin: **P1189591**
PM: **3564 - Chad A Upchurch**
PB:

Shipped Via: **FedEX Ground**

* Matrix:
**SS** - Soil **AIR** - Air **F** - Filter
**GW** - Groundwater **B** - Bioassay
**WW** - WasteWater
**DW** - Drinking Water
**OT** - Other_____

**Remarks:**

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking # 4668 1546 3051

Sample Receipt Checklist
COC Seal Present/Intact: __NP __Y __N
COC Signed/Accurate: __Y __N
Bottles arrive intact: __Y __N
Correct bottles used: __Y __N
Sufficient volume sent: __Y __N
If Applicable
VOA Zero Headspace: __Y __N
Preservation Correct/Checked: __Y __N
RAD Screen <0.5 mR/hr: __Y __N

| Relinquished by : (Signature) | Date: | Time: | Received by: (Signature) |
|---|---|---|---|
| NM | 12-22-25 | 1331 | |
| Relinquished by : (Signature) | Date: | Time: | Received by: (Signature) |
| Relinquished by : (Signature) | Date: | Time: | Received for lab by: (Signature) |
| | | | AM |

Trip Blank Received: Yes / No
HCL / MeoH
TBR

Temp: 5.0 A 2.4 C 2.4 °C Bottles Received: 6

If preser me

PH – 10BDH07251
TRC – 5090A93

Date: 12/23/25 Time: 9 ar

Hold:

Condition: NCF / OK

# FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: Dickinson SLF

Site No.: ____ Sample Point: MW-411A (Sample ID)

**This Waste Management Field Information Form is Required**
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID: L1930754

## PURGE INFO

| PURGE DATE (MM DD YY) | PURGE TIME (2400 Hr Clock) | ELAPSED HRS (hrs:min) | WATER VOL IN CASING (Gallons) | ACTUAL VOL PURGED (Gallons) | WELL VOLs PURGED |
|---|---|---|---|---|---|
| 122225 | 1040 | :15 | 12 | 17 | 2.0 |

*Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.*

## PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment … Dedicated: (Y) or N

Purging Device: C — Sampling Device: C

A- Submersible Pump; B-Peristaltic Pump; C-QED Bladder Pump; D-Bailer; E-Piston Pump; F-Dipper/Bottle

X-Other: ____

Filter Device: Y or (N) — 0.45 µ or ____ µ (circle or fill in)

Filter Type: ____ A-In-line Disposable; B-Pressure; C-Vacuum; X-Other ____

Sample Tube Type: D — A-Teflon; B-Stainless Steel; C-PVC; D-Polypropylene; X-Other: ____

## WELL DATA

Well Elevation (at TOC): 1483.27 (ft/msl)

Depth to Water (DTW) (from TOC): 25.35 (ft)

Groundwater Elevation (site datum, from TOC): 1457.87 (ft/msl)

Total Well Depth (from TOC): 32.57 (ft)

Stick Up (from ground elevation): ____ (ft)

Casing ID: 2" (in)

Casing Material: PVC

*Note: Total Well Depth, Stick Up, Casing Id, etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.*

## STABILIZATION DATA (Optional)

| Sample Time (2400 Hr Clock) | Rate/Unit | pH (std) | Conductance (SC/EC) (µmhos/cm @ 25 °C) | Temp. (°C) | Turbidity (ntu) | D.O. (mg/L - ppm) | eH/ORP (mV) | DTW (ft) |
|---|---|---|---|---|---|---|---|---|
| 1045 | .25 1st | 6.58 1st | 1156 | 11.8 | 1.9 | 2.7 | 120.5 | 27.2 |
| 1050 | .25 2nd | 6.54 2nd | 1231 | 11.9 | 2.1 | 1.9 | 103.9 | Below Pump |
| 1055 | .25 3rd | 3rd | 3rd | 3rd | 3rd | 3rd | 3rd | 3rd |
| 1055 | .25 4th | 4th | 4th | 11.9 4th | 4th | 1.9 4th | 4th | 4th |
| 1055 | .25 | 6.66 | 1218 | 11.6 | 1.4 | 2.0 | 79.6 | Below Pump |

NM @ 22Dec25 Recharge / Recharge

Suggested range for 3 consec. readings or note Permit/State requirements: | +/- 0.2 | +/- 3% | -- | -- | +/- 10% | +/- 25 mV | Stabilize

**Stabilization Data Fields are Optional** *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form*

## FIELD DATA

| SAMPLE DATE (MM DD YY) | pH (std) | CONDUCTANCE (umhos/cm @ 25°C) | TEMP. (°C) | TURBIDITY (ntu) | DO (mg/L-ppm) | eH/ORP (mV) | Other: Units |
|---|---|---|---|---|---|---|---|
| 122225 | 6.66 | 1218 | 11.6° | 1.4 | 2.0 | 79.6 | |

**Final Field Readings are required** *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

**Sample Appearance:** Sl. cloudy — Odor: None — Color: None — Other: None

**Weather Conditions** (required daily, or as conditions change): Direction/Speed: S-11 — Outlook: Clear/37° — Precipitation: Y or (N)

**Specific Comments (including purge/well volume calculations if required):** ____

## FIELD COMMENTS

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

| Date | Name | Signature | Company |
|---|---|---|---|
| 12/22/25 | NM | [signature] | MTL |

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client

ORIGINAL COPY

L1930754

GROUNDWATER SAMPLING AND/OR
GROUNDWATER ELEVATION MEASUREMENT

Site Name Dickinson Co. SLF Permit No. _____

Monitoring Well/Piezometer No. MW-41A Upgradient _____
Downgradient _____

Name of person sampling Nick Martinka

A. MONITORING WELL/PIEZOMETER CONDITIONS

Well/Piezometer Properly Capped yes Standing Water of Litter? _____
If no, explain _____ If yes, explain _____

B. GROUNDWATER ELEVATION MEASUREMENT (± 0.01 foot, MSL)

Elevation: Top of inner well casing 1483.22 Ground Elevation 1457.87
Depth of Well 32.57 Inside casing diameter ( in inches ) 2"
Equipment Used EI Water Level Indicator

Groundwater Level ( ± 0.01 foot below top of inner casing, MSL) :

| | Date/Time | Depth to Groundwater | Groundwater Elevation |
|---|---|---|---|
| Before Purging | ~~22Dec25/1040~~ | 25.35 | ~~25.35~~ 1457.87 |
| * After Purging | | | |
| * Before Sampling | ~~22Dec25/1055~~ | Below | Pump |

C. WELL PURGING

Quantity of Water Removed from Well ( gallons ) 2.4
No. of Well Volumes ( based on current water level ) 2
Was well pumped / bailed dry? yes

Equipment used:
Bailer type _____ Dedicated Bailer? _____
Pump type QED Bladder Dedicated Pump? Yes
If not dedicated, method of cleaning _____

*D. FIELD MEASUREMENT

Weather Conditions wind-5-11 / clear 37°f
Field Measurements ( after stabilization ):
Temperature 11.6° Units F
Equipment Used YSI 6820 Multi Parameter Meter
pH 6.66
Equipment Used YSI 6820 Multi Parameter Meter
Specific Cond. 1218
Equipment Used YSI 6820 Multi Parameter Meter

Comments _____

NOTE: Attach Laboratory Report and 8-12" x 11" site plan showing locations of all surface and groundwater monitoring points. One map per sampling round.

*Omit if only measuring groundwater elevations

# Appendix E Temporary Gas Probe Monitoring Results Table and MW-37A Trend Graphs

**Appendix E: Table 1 - Temporary Gas Probe Methane Measurements**

Dickinson Landfill - Spirit Lake, Iowa

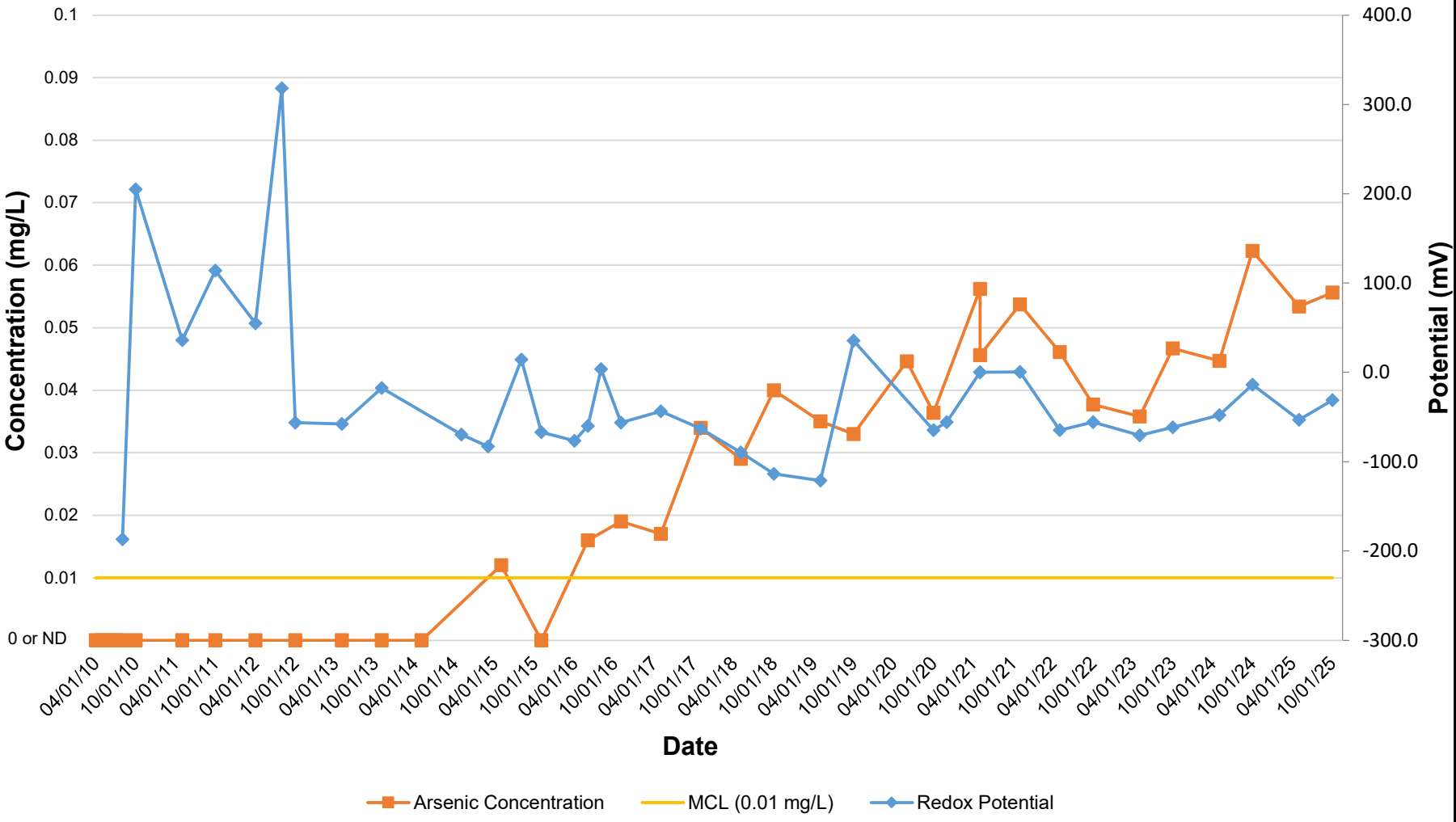
Permit No. 30-SDP-01-75P

| Date | Methane Monitoring Results (% Methane) | | Notes |
|---|---|---|---|
| | *GP-1T* | *GP-2T* | |
| 05/02/22 | **17.00%** | **6.60%** | LFG flare was inoperable due to bearing failure. |
| 06/21/22 | 0.00% | 0.00% | |
| 07/27/22 | 0.00% | 0.00% | |
| 08/31/22 | 0.00% | 0.00% | |
| 09/12/22 | 0.00% | 0.00% | |
| 10/18/22 | 0.00% | 0.00% | |
| 01/13/23 | 0.00% | 0.00% | |
| 02/01/23 | NM | NM | Probes not measured due to instrument failure. |
| 03/27/23 | 0.00% | 0.00% | |
| 04/28/23 | 0.00% | 0.00% | |
| 05/31/23 | 0.00% | 0.00% | |
| 06/27/23 | 0.00% | 0.00% | |
| 06/29/23 | 0.00% | 0.00% | |
| 07/07/23 | 0.00% | 0.00% | |
| 08/17/23 | **0.40%** | 0.00% | LFG flare was inoperable in September due to mechanical and electrical issues related to the flare's fail-close valve and blower. |
| 09/15/23 | **12.90%** | **8.60%** | |
| 10/14/23 | **1.80%** | 0.00% | |
| 01/23/24 | **0.10%** | **0.10%** | |
| 03/20/24 | **0.10%** | **0.10%** | |
| 06/26/24 | 0.00% | 0.00% | |
| 07/25/24 | 0.00% | **6.90%** | LFG flare was inoperable due to manual 99-hour timeout and resultant shutdown. |
| 08/23/24 | 0.00% | 0.00% | |
| 09/12/24 | 0.00% | 0.00% | |
| 10/07/24 | 0.00% | 0.00% | |
| 11/27/24 | 0.00% | 0.00% | |
| 02/26/25 | 0.00% | **26.00%** | Gas extraction well field tuning adjusted. |
| 03/17/25 | NM | **14.90%** | Recheck GP-2T to track adjusted well field tuning effectiveness. |
| 04/15/25 | 0.00% | 0.00% | |
| 05/27/25 | 0.00% | 0.00% | |
| 08/05/25 | 0.00% | 0.00% | |
| 10/07/25 | 0.00% | 0.00% | |
| 12/17/25 | **68.50%** | **64.90%** | LFG flare was inoperable in December due to blower breakdowns and blower replacement. |
| | | | |

**Notes:**

NM = Not Measured

**Bolded entries indicate methane > 0.00%**

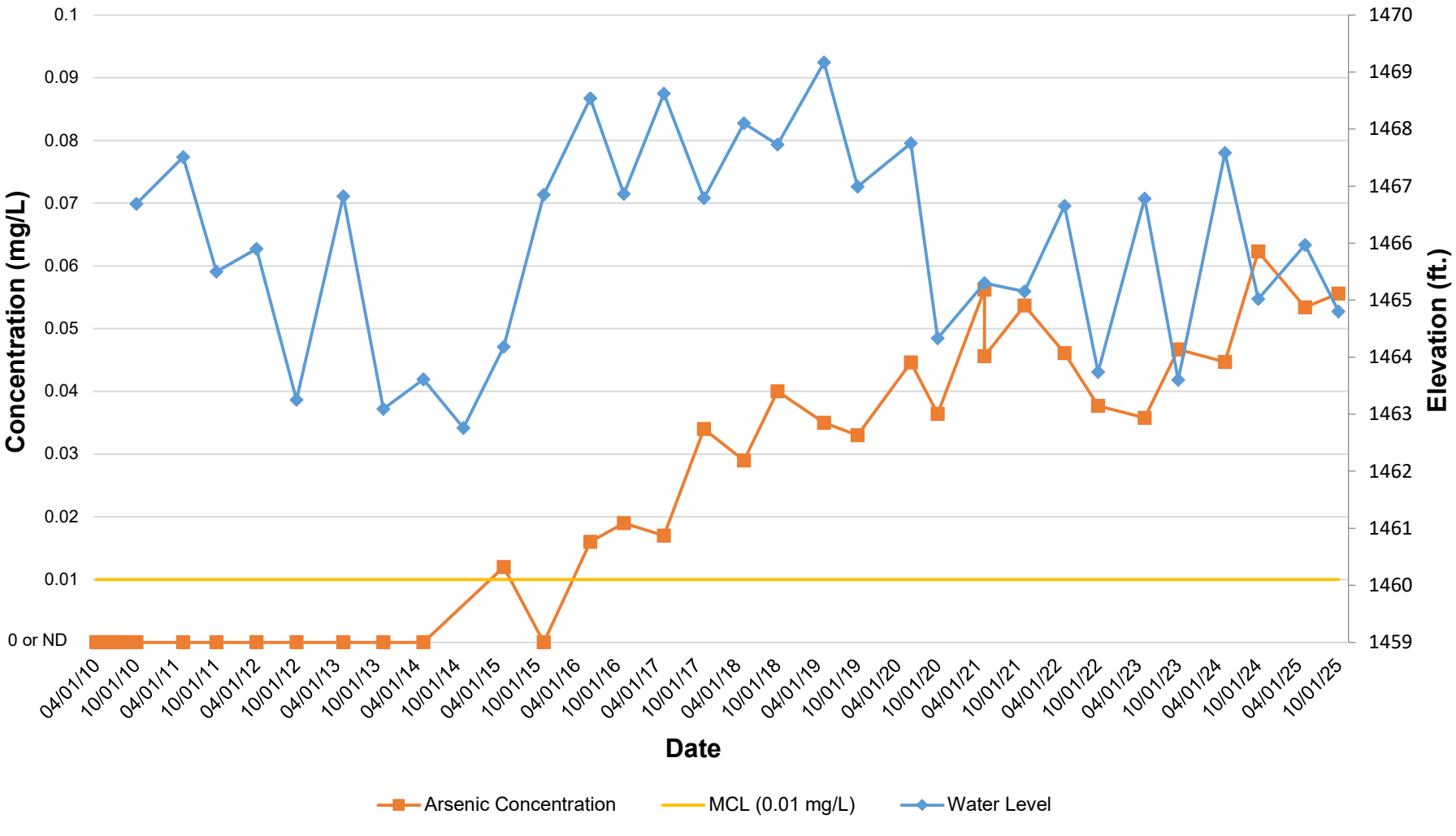



ND = No Detection

Stantec

**MW-37A**
**Dickinson County Sanitary Landfill**

**Figure 1 - Arsenic vs. ORP vs. Time**




ND = No Detection

Stantec

**MW-37A**
**Dickinson County Sanitary Landfill**

**Figure 2 - Arsenic vs. Water Level vs. Time**

**With every community, we redefine what's possible.**

Stantec is a global leader in sustainable engineering, architecture, and environmental consulting. The diverse perspectives of our partners and interested parties drive us to think beyond what's previously been done on critical issues like climate change, digital transformation, and future-proofing our cities and infrastructure. We innovate at the intersection of community, creativity, and client relationships to advance communities everywhere, so that together we can redefine what's possible.

**Stantec Consulting Services Inc.**
One Carlson Parkway North, Suite 100
Plymouth MN 55447-4440
Stantec.com