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Project/File: 227702550

Mr. Mike Smith - Senior Environmental Engineer
Iowa Department of Natural Resources, Solid Waste Section
Wallace State Office Building
502 East 9th St
Des Moines, IA 50319

Reference: Dickinson Sanitary Landfill (30-SDP-1-75P) 2025 Semi-Annual Monitoring Report

Dear Mr. Smith,

On behalf of the Dickinson Sanitary Landfill (the Landfill), this letter and its attachments are provided to the Iowa Department of Natural Resources (IDNR) to summarize the results of the spring 2025 semi-annual monitoring event completed at the Landfill, located near Arnolds Park, Iowa (see **Figure 1**), on May 12, 2025 and confirmatory resampling completed on July 9, 2025 (spring event). Consistent with prior monitoring events, field services were provided by Minnesota Valley Testing Laboratories, Inc. (MVTL) of New Ulm, Minnesota and analytical services were provided by Pace Analytical National Laboratory (Pace National) of Mt. Juliet, Tennessee. Statistical analysis for the spring event was completed by Otter Creek Environmental Services, LLC (Otter Creek).

Included with this report are summary tables documenting the monitoring schedule, well network, and water quality data and figures which illustrate the location of the Landfill's wells and other site features. The analytical laboratory reports completed by Pace National, inclusive of MVTL's field notes, for the spring event are presented in **Attachment A**. Otter Creek's statistical analysis is included as **Attachment B**. The spring event also included collection of a leachate sample; the analytical laboratory report for the leachate sample is provided in **Attachment C**. The monitoring information collected during the spring event has also been incorporated into the Landfill Operating Record.

Landfill Monitoring System

A listing of the Landfill's approved monitoring points and their position relative to the landfilled waste is provided in **Table 1** and monitoring well construction information is summarized in **Table 2**. **Figures 2** and **3** illustrate the location of the 15 groundwater monitoring wells relative to the waste fill boundaries. The well locations provide for early detection of potential Landfill impacts to groundwater. No modifications to the Landfill's monitoring network have been made in 2025. Future modifications to the Landfill's monitoring network will only be completed with IDNR concurrence.

Monitoring Event Summary

For the spring event, all water quality samples collected by MVTL were received by Pace National in acceptable condition. Sample collection and analyses followed the established field and laboratory protocols as outlined in the Hydrologic Monitoring System Plan (Liesch, June 2009). Groundwater samples were collected from all of the required locations and analyzed for IDNR Appendix I parameters in accordance with the monitoring scheduled provided on **Table 3**.

In addition to Appendix I parameters, each groundwater sample collected during the spring event was also tested for major ions. Major ion data is collected at the discretion of the Landfill for informational purposes and potential use in alternative source demonstrations examining natural groundwater quality variability versus potential changes associated with landfill operations.

Groundwater Elevations

Groundwater elevations for the spring event were generally lower compared to those measured during the spring 2024 event. However, all groundwater elevations recorded for the spring event were within each well's respective historic range. Groundwater elevation data measured during the spring event is presented on the water table configuration map included as **Figure 4**. Consistent with historical data, the groundwater elevation data for the spring event continues to indicate a south-to-southwesterly groundwater flow direction. Historical groundwater elevations are summarized in **Table 4**.

Monitoring Results

Analytical water quality results from the spring event remain generally consistent with previously collected data and are discussed in the following sections. Historical metals results, major ion results, and volatile organic compound (VOC) results are summarized on **Table 5**, **Table 6**, and **Table 7**, respectively.

Inorganic Groundwater Quality

Review of the monitoring data from the spring event conducted on May 12, 2025 identified an unconfirmed arsenic result of 0.0108 mg/L for MW-23A above the USEPA Maximum Contaminant Level (MCL) of 0.01 mg/L for arsenic and an unconfirmed cobalt result of 0.00402 mg/L for MW-34A above the IDNR Groundwater Protection Standard (GWPS) of 0.0021 mg/L for cobalt. The event update email on June 26, 2025 provided the IDNR with notification of these unconfirmed results and the proposed plan to conduct confirmatory resampling of MW-23A for arsenic and to continue monitoring MW-34A in accordance with the semi-annual monitoring schedule due to the presence of cobalt in upgradient monitoring locations at comparable concentrations. Monitoring well MW-23A was resampled for arsenic on July 9, 2025 and the result of 0.0148 mg/L is above the MCL. The laboratory report for the July 2025 MW-23A confirmation sampling is provided in **Attachment A**. It is noted that the spring event arsenic results for MW-23A do not correlate with increases of common leachate indicators such as chloride and VOCs as may be expected in the event of a leachate release to groundwater. It is also noted that MW-23A is in the Assessment monitoring program and is scheduled for IDNR Appendix II parameter testing in 2026 in accordance with the Permit Special Provision X.4.a.3 (see **Table 3**).

Consistent with past results, the only other confirmed metal results above their respective water quality criteria (MCL and/or GWPS) during the spring event were arsenic at MW-37A, cobalt at MW-12A, MW-13A, MW-23A and MW-37A, and nickel at MW-37A. The concentrations of arsenic and cobalt reported at each of the aforementioned wells are within the historical range for the respective well. An increasing trend in nickel concentration is noted at MW-37A, however, the spring event's result is only slightly higher than the fall 2024 result. Metals can be naturally occurring in groundwater 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 presence of cobalt in the monitoring network is in part attributed to naturally occurring background water quality as evidenced by its presence in upgradient wells, such as MW-12A and MW-13A, above the GWPS and in part attributed to changes in the redox state of the groundwater. The remainder of the metals results above their respective water quality standards during the spring event are generally attributed to changes in the redox state of the groundwater. The redox conditions were reviewed in association with the 2022 subsurface investigation, the

result of which, were submitted to the IDNR in the *2022 MW-37A Subsurface Investigation Report* dated June 1, 2022.

In addition to comparing the reported results to published water quality criteria, metals results are also evaluated by Otter Creek's statistical report (see **Attachment B**). For the spring event, verified interwell prediction limit exceedance were noted for arsenic at MW-37A, nickel at MW-19A, MW-37A, and MW-38A, barium at MW-23A and MW-37A, and cobalt at MW-37A. These statistical exceedances are consistent with previous statistical analyses, and the actual reported concentrations are comparable to previous results at each of these wells.

Organic Groundwater Quality

The results from the spring event are consistent with historical results in that VOC detections are absent from a majority of the monitoring wells. In addition, the results continue to identify a gradual decrease in the presence and concentration of the few VOCs, where they are detected, indicating continued benefits of the ongoing corrective actions (landfill gas management). A historical summary of VOC detections at the Landfill is presented in **Table 7**.

Similar to previous monitoring events, there were no confirmed VOC detections in wells MW-11A, MW-13A, MW-19A, MW-21A, MW-34A, MW-36A, MW-39A, and MW-40A. The few confirmed VOC detections for the spring event remain isolated to monitoring wells MW-12A, MW-23A, MW-37A, and MW-38A, all of which are located in close proximity to the waste boundary (see **Figure 3**). No new VOC detections were reported during the spring event and, consistent with historical data, the only confirmed VOC above its respective water quality standard was vinyl chloride at MW-12A. The concentration of vinyl chloride detected in MW-12A during the spring event is higher than the concentrations reported during the spring and fall 2024 events, but on the lower-end of concentrations reported at the well historically. The majority of VOCs detected during the spring event were reported at similar concentrations to those detected in 2024 and generally towards lower ends of historical ranges for individual parameters and locations.

Holding Pond Monitoring

The Holding Pond receives discharge from the Phase B/C Groundwater Underdrain (Phase B/C GU). During the spring event water in the Holding Pond was sampled for IDNR Appendix I parameters, major ions, and the IDNR's National Pollutant Discharge Elimination System (NPDES) General Permit #1 (GP1) Land Disposal Units/Incinerators parameter list (NPDES parameters).

Holding Pond 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. In accordance with the IDNR's approved Phase B/C GU monitoring and Holding Pond discharge management practices, Holding Pond discharge may occur provided there are no VOC detections or statistical exceedance attributed to the Landfill.

Holding Pond metals results, major ion results, and VOC results are summarized on **Table 5**, **Table 6**, and **Table 7**, respectively. Holding Pond monitoring results from 2012 through spring 2025 are compared to NPDES Uncontaminated Groundwater Criteria on the attached **Table 8**. There were no parameters detected above their respective IDNR NPDES Uncontaminated Groundwater Criteria for the Holding Pond sample collected during the spring event nor were there any VOC detections or metal results above respective groundwater quality standards (MCL and/or IDNR GWPS).

Holding Pond Appendix I metals results are also evaluated through intrawell statistics. At the request of the IDNR, statistical analyses are also completed to compare Holding Pond data to upgradient water quality (interwell) although it is noted that direct comparisons of upgradient groundwater data to the Holding Pond (surface water) is not wholly applicable because of the different environmental factors (e.g., precipitation, oxidation, evaporation, temperature fluctuation, etc.).

The statistical report prepared by Otter Creek for the spring event identifies an interwell prediction limit and intrawell control limit exceedance for nickel at the Holding Pond, however, the actual nickel concentration reported for the spring event Holding Pond sample (0.0221 mg/L) is less than the IDNR GWPS of 0.1 mg/L for nickel. The spring event nickel concentration reported for the Holding Pond is within the range of nickel concentrations detected in the Holding Pond and groundwater underdrain system historically, and 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. Thus, the spring event Holding Pond nickel result and subsequent statistical exceedance, is not attributable to the Landfill, rather, is representative of naturally occurring water quality.

In accordance with past management practices, the spring event Holding Pond results allow for discharge of water from the Holding Pond as there were no VOC detections and no statistical exceedances attributed to the Landfill. Additionally, all spring event Holding Pond results are below the NPDES Uncontaminated Groundwater Criteria indicating that water in the Holding Pond continues to meet the IDNR's definition of Uncontaminated Groundwater and should continue to be managed as such under GP1.

Groundwater underdrain discharge monitoring and management was the subject of a meeting held on June 12, 2025 and attended by Landfill staff, IDNR NPDES staff, IDNR solid waste staff, and Stantec. Following, the Landfill provided IDNR the new underdrain discharge monitoring and management plan and requested IDNR concurrence in an email dated June 17, 2025. IDNR NPDES staff provided concurrence via email response on June 20, 2025. IDNR solid waste staff concurrence is currently pending. In the interim, groundwater underdrain discharge monitoring and management will continue in accordance with the IDNR permit (30-SDP-1-75P), IDNR solid waste approved discharge criteria requirements (no VOCs or statistical exceedances attributed to the Landfill), and GP1.

Leachate Sampling

A leachate sample was collected on May 12, 2025 for testing of wastewater treatment plant agreement parameters, Appendix I parameters, and major ions. The leachate laboratory report is provided as **Attachment C**.

Conclusions and Recommendations

- The spring 2025 semi-annual monitoring event was completed in accordance with the approved monitoring schedule (see **Table 3**).
- The site setting, hydrogeologic conditions, and extensive monitoring program are protective of human health and the environment.
- Results from the spring event remain generally consistent with the previously collected Appendix I parameter data.
- No new VOCs were detected during the spring event. The VOC detections that did occur were limited to four locations that are immediately adjacent to the waste boundary and have had the

same parameters detected in the past. The lone VOC result above its respective water quality standard remains towards the low end of the historical range.

- Overall, the VOC results continue to indicate gradual long-term reduction in concentrations as a result of the corrective action currently in place (i.e., landfill gas management). This corrective action has been proven to be effective and will continue to be optimized in the future.

- The statistical report for the spring event identified verified interwell prediction limit exceedances for barium at MW-23A, arsenic, barium, cobalt, and nickel at MW-37A, and nickel at MW-19A, MW-38A, and the Holding Pond. Each of these statistical exceedances have occurred at the same locations in the past.

- For the sample collected from the Holding Pond, there were no VOC detections, no statistical exceedances attributed to the landfill, no inorganic parameter results above groundwater quality criteria (MCL and/or GWPS), and no results above GP1 Uncontaminated Groundwater Criteria.

- Groundwater monitoring in 2025 should continue in accordance with the approved monitoring schedule provided on **Table 3**.

- Annual plots of redox potential, water level, and arsenic results for MW-37A will continue to be included with annual water quality reports.

- Quarterly gas monitoring readings for temporary gas probes GP-1T and GP-2T for 2025 will be provided with the 2025 annual report.

If you have any questions regarding the monitoring program, please contact Erin Bulson at (414) 916-3789, or Cory Anderson, at your convenience. Thank you.

Regards,

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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	upgradient	sealed Aug 2009	na	na
MW-11	upgradient	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	downgradient	sealed Apr 2018	na	na
MW-19A *	downgradient	Assessment	6 events, 2009-2021	2026
MW-21A	downgradient	Detection	na	na
MW-22	sidegradient	sealed Sept 2014	2 events, 2011	na
MW-23	up/sidegradient	sealed Aug 2009	na	na
MW-23A *	up/sidegradient	Assessment	5 events, 2010-2021	2026
MW-29	sidegradient	sealed Sept 2014	2 events, 2011	na
MW-34A	up/sidegradient	Detection	na	na
MW-36A	sidegradient	Detection	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
Phase B&C (GU-B and GU-C)	underdrain(s)	~~Detection~~ [2]	4 events 2009-2011	na
Holding Pond	discharge from underdrain(s)	Detection [2]	na	na

Notes:

(1) - Hydrologic monitoring system in accordance with 2009 HMSP and IDNR approved modifications

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

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 during interim

Revision History:

03/10/2020 - Changed column 5 label according to IDNR 2019 AWQR Comments

01/18/2022 - Updated table to be reflective of 2021 Assessment Events

12/30/2024 - Updated table format

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	--	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

Notes:

TOC = Top of Casing

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

PVC = Polyvinyl Chloride

Table 3 - 2025 Monitoring Schedule

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

Well/Monitoring Location ID		March	5/12/2025	July 9, 2025	October
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
MW-36A		--	Appendix I & *major ions**	--	Appendix I
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*	--	--
SP-01 (per 2018 SWPPP)		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 4 - 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
MW-10	4/12/1991	1537.26	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
MW-11A	8/31/1999	1532.39	1517.75	NA	NA	NA	NA	1515.35	1513.87	1517.78	1513.53
MW-12	4/12/1991	1537.45		sealed	NA	1521.05	NA	NA	sealed	sealed	sealed
MW-12A	9/1/1998	1536.52	1523.10	NA	NA	NA	NA	1518.96	1518.93	1520.28	1516.26
MW-13	4/12/1991	1509.91	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
MW-14	4/12/1991	1483.18	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
MW-15	4/12/1991	1474.16	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
MW-16	4/12/1991	1474.1	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
MW-17A	4/10/1996	1473.61		NA	NA	NA	NA	NA	1464.57	1466.12	1460.59
MW-18	4/12/1991	1466.78	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
MW-19	4/12/1991	1469.65	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
MW-20	4/12/1991	1470.2	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
MW-22	4/12/1991	1490.63	1486.92	1484.41	1483.08	NA	1483.79	1482.2	1481.60	1484.25	1481.00
MW-23	4/12/1991	1508.81	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
MW-29	6/2/1992	1491.03	1474.3	1474.95	1474.68	NA	1475.52	1474.35	1483.82	1473.93	1473.38
MW-30A	4/10/1996	1494.72	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
MW-34A	9/12/2000	1486.93	1466.03	1466.42	1466.93	NA	1467.72	1467.12	1466.43	1466.44	1466.99
MW-36A	9/11/2000	1480.12	1459.01	1459.87	1461.44	NA	1460.16	1459.48	1458.8	1458.93	1457.92
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
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
MW-39A	5/22/2012	1478.60	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

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 4 - Groundwater Elevation Summary (2010-Present)

Dickinson Landfill - Spirit Lake, Iowa

Permit No. 30-SDP-01-75P

Monitoring Well ID	Installation Date	Top of Casing	04/24/12	10/25/12	05/07/13	11/11/13	05/13/14	11/12/14	05/27/15	11/18/15	06/16/16
MW-10	4/12/1991	1537.26	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
MW-11A	8/31/1999	1532.39	1508.96	1506.18	1503.74	1504.83	1507.67	1502.65	1502.83	1503.69	1519.83
MW-12	4/12/1991	1537.45	sealed	sealed	sealed	sealed	sealed	sealed	sealed	sealed	sealed
MW-12A	9/1/1998	1536.52	1515.36	1514.19	1520.60	1514.37	1512.52	1515.14	1517.03	1522.42	1521.15
MW-13	4/12/1991	1509.91	sealed	sealed	sealed	sealed	sealed	sealed	sealed	sealed	sealed
MW-13A	9/1/1998	1509.86	1491.63	1485.18	1496.95	1486.14	1490.06	1488.50	1492.10	1496.67	1494.94
MW-14	4/12/1991	1483.18	sealed	sealed	sealed	sealed	sealed	sealed	sealed	sealed	sealed
MW-14A	4/9/1996	1483.98	1476.97	1472.14	NA	1472.34	1477.16	1474.76	1477.96	1479.08	1477.78
MW-15	4/12/1991	1474.16	sealed	sealed	sealed	sealed	sealed	sealed	sealed	sealed	sealed
MW-15A	4/11/1996	1476.03	1468.63	1462.29	NA	1463.60	1466.73	1465.71	1468.51	1471.31	1469.24
MW-16	4/12/1991	1474.1	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
MW-17A	4/10/1996	1473.61	1466.63	1459.08	NA	1458.32	1465.77	1462.77	1465.72	1469.88	1467.02
MW-18	4/12/1991	1466.78	sealed	sealed	sealed	sealed	sealed	sealed	sealed	sealed	sealed
MW-18A	4/9/1996	1468.96	1462.04	1460.23	NA	1459.98	1461.82	1459.48	1461.75	1463.83	1462.56
MW-19	4/12/1991	1469.65	sealed	sealed	sealed	sealed	sealed	sealed	sealed	sealed	sealed
MW-19A	4/11/1996	1469.58	1465.42	1465.03	1466.33	1464.76	1464.65	1463.06	1462.94	1466.16	1464.67
MW-20	4/12/1991	1470.2	sealed	sealed	sealed	sealed	sealed	sealed	sealed	sealed	sealed
MW-21A	4/11/1996	1499.88	1472.98	1472.38	1470.83	1472.85	1470.45	1471.90	1470.46	1472.00	1481.77
MW-22	4/12/1991	1490.63	1480.53	1476.50	1485.87	1478.20	1479.06	sealed	sealed	sealed	sealed
MW-23	4/12/1991	1508.81	sealed	sealed	sealed	sealed	sealed	sealed	sealed	sealed	sealed
MW-23A	8/31/1999	1501.73	1487.97	1486.40	1489.00	1487.14	1487.30	1488.25	1488.01	1487.22	1488.97
MW-29	6/2/1992	1491.03	1471.4	1469.61	1468.92	1468.74	1467.89	sealed	sealed	sealed	sealed
MW-30A	4/10/1996	1494.72	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
MW-34A	9/12/2000	1486.93	1465.91	1464.74	1464.33	1462.22	1464.70	1465.14	1465.70	1466.17	1476.12
MW-36A	9/11/2000	1480.12	1459.51	1456.87	1460.24	1456.89	1460.40	1459.04	1461.06	1463.58	1462.27
MW-37A	8/25/2009	1486.35	1465.9	1463.25	1466.82	1463.09	1463.61	1462.76	1464.18	1466.85	1468.54
MW-38A	8/25/2009	1482.26	1466.67	1466.13	1469.34	1465.94	1464.77	1463.34	1464.08	1463.63	1467.00
MW-39A	5/22/2012	1478.60	NA	1458.65	1462.59	1461.09	1461.31	1460.82	1462.28	1462.92	1468.42
MW-40A	9/18/2014	1496.91	NA	NA	NA	NA	NA	1475.74	1474.04	1476.29	1483.01

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 4 - Groundwater Elevation Summary (2010-Present)

Dickinson Landfill - Spirit Lake, Iowa

Permit No. 30-SDP-01-75P

Monitoring Well ID	Installation Date	Top of Casing	11/16/16	05/30/17	11/21/17	05/31/18	10/31/18	05/28/19	10/15/19	06/03/20	10/07/20
MW-10	4/12/1991	1537.26	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
MW-11A	8/31/1999	1532.39	1514.85	1518.53	1514.81	1519.61	1518.87	1523.60	1517.70	1519.04	1520.90
MW-12	4/12/1991	1537.45	sealed	sealed	sealed	sealed	sealed	sealed	sealed	sealed	sealed
MW-12A	9/1/1998	1536.52	1519.48	1521.21	1518.93	1521.39	1520.17	1525.27	1521.43	1521.25	1516.21
MW-13	4/12/1991	1509.91	sealed	sealed	sealed	sealed	sealed	sealed	sealed	sealed	sealed
MW-13A	9/1/1998	1509.86	1491.88	1493.26	1490.87	1493.37	1492.45	1506.07	1492.99	1493.52	1486.59
MW-14	4/12/1991	1483.18	sealed	sealed	sealed	sealed	sealed	sealed	sealed	sealed	sealed
MW-14A	4/9/1996	1483.98	1477.22	1477.25	1476.82	1476.8	1477.23	1479.00	1477.69	1477.08	1473.31
MW-15	4/12/1991	1474.16	sealed	sealed	sealed	sealed	sealed	sealed	sealed	sealed	sealed
MW-15A	4/11/1996	1476.03	1468.02	1468.14	1467.36	1467.63	1467.84	1470.54	1468.32	1467.93	1463.81
MW-16	4/12/1991	1474.1	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
MW-17A	4/10/1996	1473.61	1464.90	1466.75	1464.49	1466.91	1464.50	1469.57	1467.12	1467.43	1459.05
MW-18	4/12/1991	1466.78	sealed	sealed	sealed	sealed	sealed	sealed	sealed	sealed	sealed
MW-18A	4/9/1996	1468.96	1462.24	1462.66	1462.32	sealed	sealed	sealed	sealed	sealed	sealed
MW-19	4/12/1991	1469.65	sealed	sealed	sealed	sealed	sealed	sealed	sealed	sealed	sealed
MW-19A	4/11/1996	1469.58	1465.21	1465.35	1465.48	1465.28	1464.65	1465.79	1465.01	1464.81	1464.49
MW-20	4/12/1991	1470.2	sealed	sealed	sealed	sealed	sealed	sealed	sealed	sealed	sealed
MW-21A	4/11/1996	1499.88	1478.86	1480.72	1488.24	1482.60	1482.08	1481.92	1479.14	1480.83	1475.55
MW-22	4/12/1991	1490.63	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
MW-23A	8/31/1999	1501.73	1488.40	1489.83	1487.94	1489.52	1488.61	1491.71	1488.99	1489.42	1486.58
MW-29	6/2/1992	1491.03	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
MW-32A	4/10/1996	1480.48	sealed	sealed	sealed	sealed	sealed	sealed	sealed	sealed	sealed
MW-34A	9/12/2000	1486.93	1467.82	1476.71	1476.58	1476.49	1476.26	1478.71	1476.32	1476.73	Inaccessible
MW-36A	9/11/2000	1480.12	1459.41	1460.25	1460.13	1460.10	1459.94	Inaccessible	1460.03	Inaccessible	Inaccessible
MW-37A	8/25/2009	1486.35	1466.86	1468.62	1466.79	1468.10	1467.73	1469.17	1466.99	1467.75	1464.33
MW-38A	8/25/2009	1482.26	1468.32	1468.31	1467.82	1467.44	1464.76	1467.46	1466.26	1466.13	1464.92
MW-39A	5/22/2012	1478.60	1465.39	1467.27	1465.42	1468.19	1467.59	1470.73	1466.36	1467.74	1467.42
MW-40A	9/18/2014	1496.91	1480.61	1484.01	1480.01	1483.71	1481.81	1488.05	1481.52	1481.97	1481.55

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 4 - Groundwater Elevation Summary (2010-Present)

Dickinson Landfill - Spirit Lake, Iowa

Permit No. 30-SDP-01-75P

Monitoring Well ID	Installation Date	Top of Casing	05/03/21	11/09/21	05/17/22	10/17/22	05/22/23	10/05/23	05/20/24	10/02/24	05/12/25
MW-10	4/12/1991	1537.26	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
MW-11A	8/31/1999	1532.39	1508.91	1509.39	1509.15	1509.01	1517.28	1509.81	1520.75	1520.76	1513.29
MW-12	4/12/1991	1537.45	sealed	sealed	sealed	sealed	sealed	sealed	sealed	sealed	sealed
MW-12A	9/1/1998	1536.52	1519.56	1518.43	1519.14	1515.98	1521.99	1516.97	1521.92	1518.06	1519.99
MW-13	4/12/1991	1509.91	sealed	sealed	sealed	sealed	sealed	sealed	sealed	sealed	sealed
MW-13A	9/1/1998	1509.86	1490.11	1485.18	1492.5	1486.84	1494.24	1485.93	1494.58	1488.87	1493.94
MW-14	4/12/1991	1483.18	sealed	sealed	sealed	sealed	sealed	sealed	sealed	sealed	sealed
MW-14A	4/9/1996	1483.98	NR	1477.57	1477.18	1473.64	1477.90	1472.81	1477.49	1474.47	1476.35
MW-15	4/12/1991	1474.16	sealed	sealed	sealed	sealed	sealed	sealed	sealed	sealed	sealed
MW-15A	4/11/1996	1476.03	NR	1468.18	1468.68	1464.36	1469.76	1463.68	1468.53	1465.13	1467.96
MW-16	4/12/1991	1474.1	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
MW-17A	4/10/1996	1473.61	NR	1465.77	1467.10	1460.12	1467.72	1459.79	1467.50	1461.83	1465.63
MW-18	4/12/1991	1466.78	sealed	sealed	sealed	sealed	sealed	sealed	sealed	sealed	sealed
MW-18A	4/9/1996	1468.96	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
MW-19A	4/11/1996	1469.58	1463.70	1462.22	1464.67	1462.39	1464.94	1462.36	1463.77	1461.78	1465.45
MW-20	4/12/1991	1470.2	sealed	sealed	sealed	sealed	sealed	sealed	sealed	sealed	sealed
MW-21A	4/11/1996	1499.88	1473.18	1473.38	1474.30	1474.35	1477.88	1474.50	1479.56	1477.33	1474.70
MW-22	4/12/1991	1490.63	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
MW-23A	8/31/1999	1501.73	1488.93	1488.83	1489.27	1486.78	1489.80	1488.63	1490.02	1487.18	1489.51
MW-29	6/2/1992	1491.03	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
MW-32A	4/10/1996	1480.48	sealed	sealed	sealed	sealed	sealed	sealed	sealed	sealed	sealed
MW-34A	9/12/2000	1486.93	1463.19	[1] 1464.82	1463.30	1462.86	1464.03	*1459.84	1459.99	Inaccessible	1465.45
MW-36A	9/11/2000	1480.12	1456.90	[1] 1459.46	1457.00	1456.17	1457.41	*1452.60	1453.22	1452.72	1459.68
MW-37A	8/25/2009	1486.35	1465.30	1465.15	1466.65	1463.74	1466.78	1463.60	1467.58	1465.02	1465.97
MW-38A	8/25/2009	1482.26	1465.94	1465.74	1467.31	1464.85	1466.73	1465.16	1466.02	1464.17	1469.48
MW-39A	5/22/2012	1478.60	1463.80	1464.05	1464.81	1462.55	1465.95	1461.55	1461.59	1464.06	1464.72
MW-40A	9/18/2014	1496.91	1481.10	1478.98	1481.44	1480.34	1484.40	1476.58	1480.51	1478.11	1478.29

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 - 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-19A	MW-21A	MW-23A	MW-34A	MW-36A	MW-37A	MW-38A	MW-39A	MW-40A	GW Holding Pond
Antimony	04/29/08	6	6	µg/L	ND	ND	ND	ND	ND	NT	NT	NT	NT	NT	NT	NT	NT
	05/22/08		(6)		ND	ND	ND	ND	ND	NT	NT	NT	NT	NT	NT	NT	NT
	06/18/08				ND	ND	ND	ND	ND	NT	NT	NT	NT	NT	NT	NT	NT
	08/13/08				ND	ND	ND	ND	ND	NT	NT	NT	NT	NT	NT	NT	NT
	09/24/08				ND	ND	ND	ND	ND	NT	NT	NT	NT	NT	NT	NT	NT
	04/27/09				ND	ND	ND	ND	ND	ND	ND	ND	NT	NT	NT	NT	NT
	10/26/09				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	NT	NT
	11/23/09				NT	NT	NT	NT	NT	NT	NT	NT	ND	ND	NT	NT	NT
	12/17/09				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	NT	NT
	04/13/10				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	NT	NT
	05/18/10				NT	NT	NT	NT	NT	ND	ND	ND	ND	ND	NT	NT	NT
	06/21/10				NT	NT	NT	NT	NT	ND	ND	ND	ND	ND	NT	NT	NT
	07/09/10				NT	ND	NT	ND	NT	ND	NT	NT	ND	ND	NT	NT	NT
	08/18/10				NT	NT	NT	NT	NT	ND	ND	ND	ND	ND	NT	NT	NT
	10/18/10				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	NT	NT
	05/10/11				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	NT	NT
	10/19/11				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	NT	NT
	04/24/12				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	NT	NT
	08/06/12				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	NT	NT
	10/25/12*				ND	ND	ND	ND	ND	dry	ND	ND	ND	ND	ND	NT	ND*
	05/07/13				NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND
	11/11/13				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND
	05/13/14				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND
	11/12/14				ND	ND	ND	ND	ND	ND	ND	ND	frozen	frozen	ND	ND	ND
	03/18/15				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	NT
	05/27/15				NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	08/20/15				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	NT
	11/18/15				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	04/25/16				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	NT
	06/16/16				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	08/17/16				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	NT
	11/16/16				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	05/30/17				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	11/21/17				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	05/31/18				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/31/18				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	05/28/19				ND	ND	ND	ND	ND	ND	ND	Inaccessible	ND	ND	ND	ND	ND
	10/15/19				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	06/03/20				ND	ND	ND	ND	ND	ND	ND	Inaccessible	ND	ND	ND	ND	ND
	10/07/20				ND	ND	ND	ND	ND	ND	Inaccessible	Inaccessible	ND	ND	ND	ND	ND
	05/03/21				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	11/09/21				ND	ND	ND	ND	ND	ND	Inaccessible	Inaccessible	ND	ND	ND	ND	ND
	01/13/22				NT	NT	NT	NT	NT	NT	ND	ND	NT	NT	NT	NT	NT
	05/17/22				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/17/22				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	05/22/23**				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/5/23***				ND	ND	ND	ND	ND	ND	NT	NT	ND	ND	ND	ND	ND
	05/20/24				ND	ND	ND	ND	ND	ND	NT	NT	ND	ND	ND	ND	ND
	10/02/24				ND	ND	ND	ND	ND	ND	Inaccessible	NT	ND	ND	ND	ND	ND
	05/12/25				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic	04/29/08	0.01	0.01	mg/L	ND	ND	ND	ND	ND	NT	NT	NT	NT	NT	NT	NT	NT
	05/22/08		(0.01)		ND	ND	ND	ND	ND	NT	NT	NT	NT	NT	NT	NT	NT
	06/18/08				ND	ND	ND	ND	ND	NT	NT	NT	NT	NT	NT	NT	NT
	08/13/08				ND	ND	ND	ND	ND	NT	NT	NT	NT	NT	NT	NT	NT
	09/24/08				ND	ND	ND	ND	ND	NT	NT	NT	NT	NT	NT	NT	NT
	04/27/09				ND	ND	ND	ND	ND	ND	ND	ND	NT	NT	NT	NT	NT
	10/26/09				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	NT	NT
	11/23/09				NT	NT	NT	NT	NT	NT	NT	NT	ND	ND	NT	NT	NT
	12/17/09				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	NT	NT
	04/13/10				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	NT	NT
	05/18/10				NT	NT	NT	NT	NT	ND	ND	ND	ND	ND	NT	NT	NT
	06/21/10				NT	NT	NT	NT	NT	ND	ND	ND	ND	ND	NT	NT	NT
	07/09/10				NT	ND	NT	ND	NT	ND	NT	NT	ND	ND	NT	NT	NT
	08/18/10				NT	NT	NT	NT	NT	ND	ND	ND	ND	ND	NT	NT	NT
	10/18/10				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	NT	NT
	05/10/11				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	NT	NT
	10/19/11				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	NT	NT
	04/24/12				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	NT	NT
	08/06/12				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	NT	NT
	10/25/12*				ND	ND	ND	ND	ND	dry	ND	ND	ND	ND	ND	NT	ND*

Table 5 - 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-19A	MW-21A	MW-23A	MW-34A	MW-36A	MW-37A	MW-38A	MW-39A	MW-40A	GW Holding Pond
Arsenic	05/07/13	0.01	0.01	mg/L	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND
	11/11/13		(0.01)		ND	ND	ND	ND	ND	0.037	ND	ND	ND	ND	ND	NT	ND
	05/13/14				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND
	11/12/14				ND	ND	ND	ND	ND	ND	ND	ND	frozen	frozen	ND	ND	ND
	03/18/15				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	NT
	05/27/15				NT	ND	ND	ND	ND	ND	ND	ND	0.012	ND	ND	ND	ND
	08/20/15				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	NT
	11/18/15				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	04/25/16				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	NT
	06/16/16				ND	ND	ND	ND	ND	ND	ND	ND	0.016	ND	ND	ND	ND
	08/17/16				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	NT
	11/16/16				ND	ND	ND	ND	ND	ND	ND	ND	0.019	ND	ND	ND	ND
	05/30/17				ND	ND	ND	ND	ND	ND	ND	ND	0.017	ND	ND	ND	ND
	11/21/17				ND	ND	ND	ND	ND	ND	ND	ND	0.034	ND	ND	ND	ND
	05/31/18				ND	ND	ND	ND	ND	ND	ND	ND	0.029	ND	ND	ND	ND
	10/31/18				ND	ND	ND	ND	ND	ND	ND	ND	0.040	ND	ND	ND	ND
	05/28/19				ND	ND	ND	ND	ND	ND	ND	Inaccessible	0.035	ND	ND	ND	ND
	10/15/19				ND	ND	ND	ND	ND	ND	ND	ND	0.033	ND	ND	ND	ND
	06/03/20				ND	ND	ND	ND	ND	ND	ND	Inaccessible	0.0446	ND	ND	ND	ND
	10/07/20				ND	ND	ND	ND	ND	ND	Inaccessible	Inaccessible	0.0364	ND	ND	0.012	ND
	12/17/20				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	NT
	05/03/21				ND	ND	ND	ND	ND	ND	ND	ND	0.0562	ND	ND	ND	ND
	5/3/21 (2)				NT	NT	NT	NT	NT	NT	NT	NT	0.0456	NT	NT	NT	NT
	11/09/21				ND	ND	ND	ND	ND	ND	Inaccessible	Inaccessible	0.0537	ND	ND	ND	ND
	01/13/22				NT	NT	NT	NT	NT	NT	ND	ND	NT	NT	NT	NT	NT
	05/17/22				ND	ND	ND	ND	ND	ND	ND	ND	0.0461	ND	ND	ND	0.0104
	7/28/22 (01)				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND
	7/28/22 (02)				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND
	10/17/22				ND	ND	ND	ND	ND	ND	ND	ND	0.0377	ND	ND	ND	ND
	05/22/23**				ND	ND	ND	ND	ND	ND	ND	ND	0.0358	ND	ND	ND	ND
	10/5/23***				ND	ND	ND	ND	ND	ND	NT	NT	0.0467	ND	ND	ND	0.0104
	11/27/23				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND
	05/20/24				ND	ND	ND	ND	ND	ND	NT	NT	0.0447	ND	ND	ND	0.0213
	07/18/24				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	0.0356
	10/02/24				ND	ND	ND	ND	ND	ND	Inaccessible	NT	0.0623	ND	ND	ND	0.014
	11/12/24				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND
	05/12/25				ND	ND	ND	ND	ND	0.0108	ND	ND	0.0534	ND	ND	ND	ND
	07/09/25				NT	NT	NT	NT	NT	0.0148	NT	NT	NT	NT	NT	NT	NT
Barium	04/29/08	0.02	2	mg/L	0.19	0.21	0.17	0.18	0.22	NT	NT	NT	NT	NT	NT	NT	NT
	05/22/08		(2)		0.19	0.21	0.16	0.15	0.21	NT	NT	NT	NT	NT	NT	NT	NT
	06/18/08				0.19	0.2	0.17	0.15	0.21	NT	NT	NT	NT	NT	NT	NT	NT
	08/13/08				0.19	0.2	0.17	0.14	0.23	NT	NT	NT	NT	NT	NT	NT	NT
	09/24/08				0.2	0.24	0.15	0.15	0.23	NT	NT	NT	NT	NT	NT	NT	NT
	04/27/09				0.183	0.23	0.183	0.137	0.181	0.125	0.0394	0.0415	NT	NT	NT	NT	NT
	10/26/09				0.192	0.234 (0.248)	0.195	0.131 (0.135)	0.235	0.147	0.0406	0.0428	0.146	0.195	NT	NT	NT
	11/23/09				NT	NT	NT	NT	NT	NT	NT	NT	0.146	0.215	NT	NT	NT
	12/17/09				0.195	0.187 (0.236)	0.205	0.135 (0.133)	0.231	0.143	0.0392	0.0435	0.148	0.25	NT	NT	NT
	04/13/10				0.178	0.215	0.163	0.129	0.190	0.123	0.0330	0.0380	0.108	0.185	NT	NT	NT
	05/18/10				NT	NT	NT	NT	NT	0.128	0.0346	0.0367	0.115	0.186	NT	NT	NT
	06/21/10				NT	NT	NT	NT	NT	0.146	0.0375	0.0394	0.128	0.192	NT	NT	NT
	07/09/10				NT	0.213	NT	0.154	NT	0.15	NT	NT	0.126	0.185	NT	NT	NT
	08/18/10				NT	NT	NT	NT	NT	0.16	0.0354	0.0393	0.134	0.213	NT	NT	NT
	10/18/10				0.209	0.186	0.201	0.144	0.213	0.166	0.0399	0.0442	0.165	0.224	NT	NT	NT
	05/10/11				0.2	0.22 (0.23)	0.23	0.15 (0.15)	0.24	0.12 (0.020)	0.035	0.039	0.19 (0.19)	0.2 (0.2)	NT	NT	NT
	10/19/11				0.22	0.19	0.22	0.17	0.26	0.19	0.05	0.042	0.24	0.2	NT	NT	NT
	04/24/12				0.2	0.22	0.22	0.15	0.22	0.17	0.038	0.037	0.24	0.21	NT	NT	NT
	08/06/12				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	0.29	NT	NT
	10/25/12*				0.37	0.23	0.19	0.15	0.22	dry	0.036	0.043	0.29	0.22	0.49	NT	0.17*
	05/07/13				NT	0.19	0.27	0.13	0.22	0.17	0.033	0.037	0.29	0.23	0.3	NT	0.13
	11/11/13				0.2	0.24	0.18	0.13	0.22	0.98	0.038	0.041	0.037	0.024	0.31	NT	0.18
	05/13/14				ND	0.22	ND	0.17	0.22	0.15	0.03	0.033	0.32	0.22	0.27	NT	0.14
	11/12/14				0.22	0.25	0.27	0.17	0.27	0.18	0.037	0.046	frozen	frozen	0.33	0.25	0.21
	03/18/15				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	0.24	NT
	05/27/15				NT	0.21	0.21	0.12	0.19	0.23	0.031	0.036	0.35	0.21	0.29	0.19	0.19
	08/20/15				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	0.19	NT
	11/18/15				0.28	0.21	0.25	0.1	0.24	0.27	0.031	0.04	0.4	0.2	0.31	0.25	0.047
	04/25/16				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	0.29	NT
	06/16/16				0.17	0.26	0.23	0.17	0.24	0.29	0.037	0.024	0.32	0.2	0.25	0.029	0.041
	08/17/16				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	0.31	NT
	11/16/16				0.15	0.23	0.29	0.22	0.25	0.29	0.039	0.031	0.37	0.22	0.34	0.29	0.11

Table 5 - 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-19A	MW-21A	MW-23A	MW-34A	MW-36A	MW-37A	MW-38A	MW-39A	MW-40A	GW Holding Pond
Barium	05/30/17	0.02	2	mg/L	0.18	0.26	0.3	0.17	0.25	0.32	0.043	0.03	0.45	0.21	0.26	0.3	0.09
	11/21/17		(2)		0.22	0.25	0.27	0.16	0.3	0.35	0.31	0.32	0.54	0.23	0.32	0.34	0.15
	05/31/18				0.2	0.25	0.25	0.15	0.26	0.66	0.22	0.29	0.54	0.2	0.22	0.29	0.093
	10/31/18				0.21	0.24	0.34	0.16	0.27	0.46	0.15	0.30	0.64	0.21	0.28	0.3	0.12
	05/28/19				0.24	0.29	0.32	0.16	0.31	1.3	0.19	Inaccessible	0.65	0.24	0.2	0.29	0.14
	10/15/19				0.27	0.24	0.31	0.17	0.31	0.62	0.18	0.29	0.68	0.23	0.27	0.27	0.15
	06/03/20				0.261	0.24	0.335	0.153	0.286	1.02	0.196	Inaccessible	0.718	0.242	0.192	0.293	0.0717
	10/07/20				0.234	0.259	0.304	0.146	0.294	0.478	Inaccessible	Inaccessible	0.756	0.255	0.267	0.305	0.166
	05/03/21				0.212	0.266	0.344	0.133	0.279	1.17	0.0357	0.303	0.805	0.231	0.286	0.236	0.0576
	11/09/21				0.259	0.278	0.365	0.168	0.273	1.3	Inaccessible	Inaccessible	0.914	0.28	0.39	0.245	0.155
	01/13/22				NT	NT	NT	NT	NT	NT	0.0351	0.038	NT	NT	NT	NT	NT
	05/17/22				0.207	0.252	0.322	0.136	0.247	1.49	0.235	0.182	0.802	0.243	0.251	0.22	0.0895
	10/17/22				0.236	0.288	0.389	0.151	0.285	1.08	0.297	0.223	0.871	0.277	0.325	0.259	0.0757
	05/22/23**				0.239	0.299	0.444	0.138	0.277	2.54	0.186	0.267	0.982	0.237	0.208	0.263	0.0837
	10/5/23***				0.245	0.277	0.401	0.156	0.292	1.23	NT	NT	1.14	0.3	0.301	0.314	0.26
	05/20/24				0.22	0.345	0.451	0.15	0.269	2.45	NT	NT	1.16	0.26	0.167	0.251	0.0487
	07/18/24				NT	NT	NT	NT	NT	1.95	NT	NT	NT	NT	NT	NT	NT
	10/02/24				0.237	0.283	0.42	0.166	0.29	1.64	Inaccessible	NT	1.42	0.216	0.253	0.272	0.166
	05/12/25				0.235	0.267	0.396	0.208	0.296	1.6	0.0437	0.0426	1.32	0.216	0.275	0.221	0.116
Beryllium	04/29/08	0.004	0.004	mg/L	ND	ND	ND	ND	ND	NT	NT	NT	NT	NT	NT	NT	NT
	05/22/08		(0.004)		ND	ND	ND	ND	ND	NT	NT	NT	NT	NT	NT	NT	NT
	06/18/08				ND	ND	ND	ND	ND	NT	NT	NT	NT	NT	NT	NT	NT
	08/13/08				ND	ND	ND	ND	ND	NT	NT	NT	NT	NT	NT	NT	NT
	09/24/08				ND	ND	ND	ND	ND	NT	NT	NT	NT	NT	NT	NT	NT
	04/27/09				ND	ND	ND	ND	ND	ND	ND	ND	NT	NT	NT	NT	NT
	10/26/09				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	NT	NT
	11/23/09				NT	NT	NT	NT	NT	NT	NT	NT	ND	ND	NT	NT	NT
	12/17/09				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	NT	NT
	04/13/10				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	NT	NT
	05/18/10				NT	NT	NT	NT	NT	ND	ND	ND	ND	ND	NT	NT	NT
	06/21/10				NT	NT	NT	NT	NT	ND	ND	ND	ND	ND	NT	NT	NT
	07/09/10				NT	ND	NT	ND	NT	ND	NT	NT	ND	ND	NT	NT	NT
	08/18/10				NT	NT	NT	NT	NT	ND	ND	ND	ND	ND	NT	NT	NT
	10/18/10				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	NT	NT
	05/10/11				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	NT	NT
	10/19/11				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	NT	NT
	04/24/12				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	NT	NT
	08/06/12				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	NT	NT
	10/25/12*				ND	ND	ND	ND	ND	dry	ND	ND	ND	ND	ND	NT	ND*
	05/07/13				NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND
	11/11/13				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND
	05/13/14				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND
	11/12/14				ND	ND	ND	ND	ND	ND	ND	ND	frozen	frozen	ND	ND	ND
	03/18/15				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	NT
	05/27/15				NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	08/20/15				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	NT
	11/18/15				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	04/25/16				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	NT
	06/16/16				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	08/17/16				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	NT
	11/16/16				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	05/30/17				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	11/21/17				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	05/31/18				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/31/18				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	05/28/19				ND	ND	ND	ND	ND	ND	ND	Inaccessible	ND	ND	ND	ND	ND
	10/15/19				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	06/03/20				ND	ND	ND	ND	ND	ND	ND	Inaccessible	ND	ND	ND	ND	ND
	10/07/20				ND	ND	ND	ND	ND	ND	Inaccessible	Inaccessible	ND	ND	ND	ND	ND
	05/03/21				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	11/09/21				ND	ND	ND	ND	ND	ND	Inaccessible	Inaccessible	ND	ND	ND	ND	ND
	01/13/22				NT	NT	NT	NT	NT	NT	ND	ND	NT	NT	NT	NT	NT
	05/17/22				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/17/22				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	05/22/23**				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/5/23***				ND	ND	ND	ND	ND	ND	NT	NT	ND	ND	ND	ND	ND
	05/20/24				ND	ND	ND	ND	ND	ND	NT	NT	ND	ND	ND	ND	ND
	10/02/24				ND	ND	ND	ND	ND	ND	Inaccessible	NT	ND	ND	ND	ND	ND
	05/12/25				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Table 5 - 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-19A	MW-21A	MW-23A	MW-34A	MW-36A	MW-37A	MW-38A	MW-39A	MW-40A	GW Holding Pond
Cadmium	04/29/08	0.005	0.005	mg/L	ND	ND	ND	ND	ND	NT	NT	NT	NT	NT	NT	NT	NT
	05/22/08		(0.005)		ND	ND	ND	ND	ND	NT	NT	NT	NT	NT	NT	NT	NT
	06/18/08				ND	ND	ND	ND	ND	NT	NT	NT	NT	NT	NT	NT	NT
	08/13/08				ND	ND	ND	ND	ND	NT	NT	NT	NT	NT	NT	NT	NT
	09/24/08				ND	ND	ND	ND	ND	NT	NT	NT	NT	NT	NT	NT	NT
	04/27/09				ND	ND	ND	ND	ND	ND	ND	ND	NT	NT	NT	NT	NT
	10/26/09				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	NT	NT
	11/23/09				NT	NT	NT	NT	NT	NT	NT	NT	ND	ND	NT	NT	NT
	12/17/09				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	NT	NT
	04/13/10				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	NT	NT
	05/18/10				NT	NT	NT	NT	NT	ND	ND	ND	ND	ND	NT	NT	NT
	06/21/10				NT	NT	NT	NT	NT	ND	ND	ND	ND	ND	NT	NT	NT
	07/09/10				NT	ND	NT	ND	NT	ND	NT	NT	ND	ND	NT	NT	NT
	08/18/10				NT	NT	NT	NT	NT	ND	ND	ND	ND	ND	NT	NT	NT
	10/18/10				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	NT	NT
	05/10/11				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	NT	NT
	10/19/11				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	NT	NT
	04/24/12				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	NT	NT
	08/06/12				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	NT	NT
	10/25/12*				ND	ND	ND	ND	ND	dry	ND	ND	ND	ND	ND	NT	ND*
	05/07/13				NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND
	11/11/13				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND
	05/13/14				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND
	11/12/14				ND	ND	ND	ND	ND	ND	ND	ND	frozen	frozen	ND	ND	ND
	03/18/15				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	NT
	05/27/15				NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	08/20/15				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	NT
	11/18/15				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	04/25/16				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	NT
	06/16/16				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	08/17/16				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	NT
	11/16/16				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	05/30/17				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	11/21/17				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	05/31/18				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/31/18				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	05/28/19				ND	ND	ND	ND	ND	ND	ND	Inaccessible	ND	ND	ND	ND	ND
	10/15/19				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	06/03/20				ND	ND	ND	ND	ND	ND	ND	Inaccessible	ND	ND	ND	ND	ND
	10/07/20				ND	ND	ND	ND	ND	ND	Inaccessible	Inaccessible	ND	ND	ND	ND	ND
	05/03/21				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	11/09/21				ND	ND	ND	ND	ND	ND	Inaccessible	Inaccessible	ND	ND	ND	ND	ND
	01/13/22				NT	NT	NT	NT	NT	NT	ND	ND	NT	NT	NT	NT	NT
	05/17/22				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/17/22				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	05/22/23**				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/5/23***				ND	ND	ND	ND	ND	ND	NT	NT	ND	ND	ND	ND	ND
	05/20/24				ND	ND	ND	ND	ND	ND	NT	NT	ND	ND	ND	ND	ND
	10/02/24				ND	ND	ND	ND	ND	ND	Inaccessible	NT	ND	ND	ND	ND	ND
	05/12/25				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chromium	04/29/08	0.01	0.1	mg/L	ND	ND	ND	ND	ND	NT	NT	NT	NT	NT	NT	NT	NT
	05/22/08		(0.1)		ND	ND	ND	ND	ND	NT	NT	NT	NT	NT	NT	NT	NT
	06/18/08				ND	ND	ND	ND	ND	NT	NT	NT	NT	NT	NT	NT	NT
	08/13/08				ND	ND	ND	ND	ND	NT	NT	NT	NT	NT	NT	NT	NT
	09/24/08				ND	ND	ND	ND	ND	NT	NT	NT	NT	NT	NT	NT	NT
	04/27/09				ND	ND	ND	ND	ND	ND	ND	ND	NT	NT	NT	NT	NT
	10/26/09				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	NT	NT
	11/23/09				NT	NT	NT	NT	NT	NT	NT	NT	ND	ND	NT	NT	NT
	12/17/09				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	NT	NT
	04/13/10				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	NT	NT
	05/18/10				NT	NT	NT	NT	NT	ND	ND	ND	ND	ND	NT	NT	NT
	06/21/10				NT	NT	NT	NT	NT	ND	ND	ND	ND	ND	NT	NT	NT
	07/09/10				NT	ND	NT	ND	NT	ND	NT	NT	ND	ND	NT	NT	NT
	08/18/10				NT	NT	NT	NT	NT	ND	ND	ND	ND	ND	NT	NT	NT
	10/18/10				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	NT	NT
	05/10/11				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	NT	NT
	10/19/11				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	NT	NT
	04/24/12				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	NT	NT
	08/06/12				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	NT	NT
	10/25/12*				0.023	ND	ND	ND	ND	dry	ND	ND	ND	ND	0.022	NT	ND*

Table 5 - 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-19A	MW-21A	MW-23A	MW-34A	MW-36A	MW-37A	MW-38A	MW-39A	MW-40A	GW Holding Pond
Chromium	05/07/13	0.01	0.1	mg/L	NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND
	11/11/13		(0.1)		ND	ND	ND	ND	ND	0.083	ND	ND	0.012	ND	ND	NT	ND
	05/13/14				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND
	11/12/14				ND	ND	ND	ND	ND	ND	ND	ND	frozen	frozen	ND	ND	ND
	03/18/15				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	0.011	NT
	05/27/15				NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	08/20/15				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	NT
	11/18/15				0.013	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	04/25/16				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	NT
	06/16/16				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	08/17/16				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	NT
	11/16/16				ND	ND	ND	ND	ND	ND	ND	ND	0.0077	ND	ND	ND	ND
	05/30/17				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	11/21/17				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	05/31/18				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/31/18				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	05/28/19				ND	ND	ND	ND	ND	ND	ND	Inaccessible	ND	ND	ND	ND	ND
	10/15/19				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	06/03/20				ND	ND	ND	ND	ND	ND	ND	Inaccessible	ND	ND	ND	ND	ND
	10/07/20				ND	ND	ND	ND	ND	ND	Inaccessible	Inaccessible	ND	ND	ND	ND	ND
	05/03/21				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	11/09/21				ND	ND	ND	ND	ND	ND	Inaccessible	Inaccessible	ND	ND	ND	ND	ND
	01/13/22				NT	NT	NT	NT	NT	NT	ND	ND	NT	NT	NT	NT	NT
	05/17/22				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/17/22				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	05/22/23**				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/5/23***				ND	ND	ND	ND	ND	ND	NT	NT	ND	ND	ND	ND	ND
	05/20/24				ND	ND	ND	ND	ND	ND	NT	NT	ND	ND	ND	ND	ND
	10/02/24				ND	ND	ND	ND	ND	ND	Inaccessible	NT	ND	ND	ND	ND	ND
	05/12/25				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cobalt	04/29/08	0.01	na	mg/L	ND	ND	ND	ND	ND	NT	NT	NT	NT	NT	NT	NT	NT
	05/22/08		(0.007)		ND	ND	ND	ND	ND	NT	NT	NT	NT	NT	NT	NT	NT
	06/18/08				ND	ND	ND	ND	ND	NT	NT	NT	NT	NT	NT	NT	NT
	08/13/08				ND	ND	ND	ND	ND	NT	NT	NT	NT	NT	NT	NT	NT
	09/24/08				ND	ND	ND	ND	ND	NT	NT	NT	NT	NT	NT	NT	NT
	04/27/09				ND	ND	ND	ND	ND	ND	ND	ND	NT	NT	NT	NT	NT
	10/26/09				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	NT	NT
	11/23/09				NT	NT	NT	NT	NT	NT	NT	NT	ND	ND	NT	NT	NT
	12/17/09				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	NT	NT
	04/13/10				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	NT	NT
	05/18/10				NT	NT	NT	NT	NT	ND	ND	ND	ND	ND	NT	NT	NT
	06/21/10				NT	NT	NT	NT	NT	ND	ND	ND	ND	ND	NT	NT	NT
	07/09/10				NT	ND	NT	ND	NT	ND	NT	NT	ND	ND	NT	NT	NT
	08/18/10				NT	NT	NT	NT	NT	ND	ND	ND	ND	ND	NT	NT	NT
	10/18/10				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	NT	NT
	05/10/11				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	NT	NT
	10/19/11				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	NT	NT
	04/24/12				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	NT	NT
	08/06/12				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	NT	NT
	10/25/12*		*na*		0.011	ND	ND	ND	ND	dry	ND	ND	0.011	ND	ND	NT	ND*
	05/07/13	(0.0028)	(0.0028)		NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND
	11/11/13				ND	ND	ND	ND	ND	0.034	ND	ND	0.016	ND	ND	NT	ND
	05/13/14				ND	ND	ND	ND	ND	ND	ND	ND	0.01	ND	ND	NT	ND
	11/12/14				ND	ND	ND	ND	ND	ND	ND	ND	frozen	frozen	ND	ND	ND
	03/18/15				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	NT
	05/27/15				NT	ND	ND	ND	ND	ND	ND	ND	0.011	ND	ND	ND	ND
	08/20/15				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	NT
	11/18/15				0.0063	ND	ND	ND	ND	ND	ND	ND	0.0083	ND	ND	ND	ND
	04/25/16				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	NT
	06/16/16				ND	ND	ND	ND	ND	ND	ND	ND	0.0078	ND	ND	ND	ND
	08/17/16				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	NT
	11/16/16				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	05/30/17				ND	ND	ND	ND	ND	ND	ND	ND	0.0068	ND	ND	ND	ND
	11/21/17				ND	ND	ND	ND	ND	ND	ND	ND	0.0069	ND	ND	ND	ND
	05/31/18	0.0021	(0.0021)		ND	ND	ND	ND	ND	0.013	ND	ND	0.0073	ND	ND	ND	ND
	10/31/18				ND	ND	ND	ND	ND	0.0033	ND	ND	0.0080	ND	ND	ND	ND
	05/28/19				ND	ND	ND	ND	ND	0.014	ND	Inaccessible	0.0070	ND	ND	ND	ND
	10/15/19				ND	ND	ND	ND	ND	0.0062	ND	ND	0.0079	ND	ND	ND	ND
	06/03/20	*0.002*			ND	ND	ND	ND	ND	0.00974	ND	Inaccessible	0.00910	ND	ND	ND	ND
	10/07/20				ND	ND	ND	ND	ND	0.00312	Inaccessible	Inaccessible	0.00966	ND	ND	ND	ND

Table 5 - 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-19A	MW-21A	MW-23A	MW-34A	MW-36A	MW-37A	MW-38A	MW-39A	MW-40A	GW Holding Pond
Cobalt	05/03/21	0.002	na	mg/L	ND	ND	0.00283	ND	ND	0.0147	ND	ND	0.01060	ND	ND	ND	ND
	11/09/21		(0.0021)		ND	0.00204	ND	ND	ND	0.0102	Inaccessible	Inaccessible	0.0125	ND	ND	ND	ND
	01/13/22				NT	NT	NT	NT	NT	NT	ND	ND	NT	NT	NT	NT	NT
	05/17/22				ND	ND	ND	ND	ND	0.0144	ND	ND	0.014	ND	ND	ND	ND
	10/17/22				ND	ND	ND	ND	ND	0.0038	ND	ND	0.0132	ND	ND	ND	ND
	05/22/23**				ND	0.00236	0.00465	ND	ND	0.0149	ND	ND	0.016	ND	ND	ND	ND
	10/5/23***				ND	0.00217	0.00237	ND	ND	0.00519	NT	NT	0.0187	0.00247	ND	ND	0.00244
	11/27/23				NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	NT	NT	ND
	05/20/24				ND	ND	0.00217	ND	ND	0.0135	NT	NT	0.0184	0.00207	ND	ND	0.00394
	07/18/24				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND
	10/02/24				ND	0.0024	ND	ND	ND	ND	Inaccessible	NT	0.0239	ND	ND	ND	0.00578
	05/12/25				ND	0.0022	0.00237	ND	ND	0.0113	0.00402	ND	0.023	ND	ND	ND	ND
Copper	04/29/08	0.01	1.3	mg/L	ND	ND	ND	0.01	ND	NT	NT	NT	NT	NT	NT	NT	NT
	05/22/08		(1.3)		ND	ND	ND	ND	ND	NT	NT	NT	NT	NT	NT	NT	NT
	06/18/08				ND	ND	ND	ND	ND	NT	NT	NT	NT	NT	NT	NT	NT
	08/13/08				ND	ND	ND	ND	ND	NT	NT	NT	NT	NT	NT	NT	NT
	09/24/08				ND	ND	ND	ND	ND	NT	NT	NT	NT	NT	NT	NT	NT
	04/27/09				ND	ND	ND	ND	ND	ND	ND	ND	NT	NT	NT	NT	NT
	10/26/09				ND	ND(0.006)	ND	ND	ND	ND	ND	ND	ND	ND	NT	NT	NT
	11/23/09				NT	NT	NT	NT	NT	NT	NT	NT	ND	ND	NT	NT	NT
	12/17/09				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	NT	NT
	04/13/10				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	NT	NT
	05/18/10				NT	NT	NT	NT	NT	ND	ND	ND	ND	ND	NT	NT	NT
	06/21/10				NT	NT	NT	NT	NT	ND	ND	ND	ND	ND	NT	NT	NT
	07/09/10				NT	ND	NT	ND	NT	ND	NT	NT	ND	ND	NT	NT	NT
	08/18/10				NT	NT	NT	NT	NT	ND	ND	ND	ND	ND	NT	NT	NT
	10/18/10				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	NT	NT
	05/10/11				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	NT	NT
	10/19/11				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	NT	NT
	04/24/12				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	NT	NT
	08/06/12				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	NT	NT
	10/25/12*				0.021	ND	ND	ND	ND	dry	ND	ND	ND	ND	0.017	NT	ND*
	05/07/13				NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND
	11/11/13				ND	ND	ND	ND	ND	0.11	ND	ND	0.13	ND	ND	NT	ND
	05/13/14				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND
	11/12/14				ND	ND	ND	ND	ND	ND	ND	ND	frozen	frozen	ND	ND	ND
	03/18/15				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	NT
	05/27/15				NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	08/20/15				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	NT
	11/18/15				0.015	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	04/25/16				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	NT
	06/16/16				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	08/17/16				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	NT
	11/16/16				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	05/30/17				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	11/21/17				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	05/31/18				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/31/18				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	05/28/19				ND	ND	ND	ND	ND	ND	ND	Inaccessible	ND	ND	ND	ND	ND
	10/15/19				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	06/03/20				ND	ND	ND	ND	ND	ND	ND	Inaccessible	ND	ND	ND	ND	ND
	10/07/20				ND	ND	ND	ND	ND	ND	Inaccessible	Inaccessible	ND	ND	ND	ND	ND
	05/03/21				ND	ND	0.0113	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	11/09/21				ND	ND	ND	ND	ND	ND	Inaccessible	Inaccessible	ND	ND	ND	ND	ND
	01/13/22				NT	NT	NT	NT	NT	NT	ND	ND	NT	NT	NT	NT	NT
	05/17/22				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/17/22				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	05/22/23**				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/5/23***				ND	ND	ND	ND	ND	ND	NT	NT	ND	0.0111	ND	ND	ND
	05/20/24				ND	ND	ND	ND	ND	ND	NT	NT	ND	ND	ND	ND	ND
	10/02/24				ND	ND	ND	ND	ND	ND	Inaccessible	NT	ND	ND	ND	ND	ND
	05/12/25				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Lead	04/29/08	0.01	0.015	mg/L	ND	ND	ND	ND	ND	NT	NT	NT	NT	NT	NT	NT	NT
	05/22/08		(0.015)		ND	ND	ND	ND	ND	NT	NT	NT	NT	NT	NT	NT	NT
	06/18/08				ND	ND	ND	ND	ND	NT	NT	NT	NT	NT	NT	NT	NT
	08/13/08				ND	ND	ND	ND	ND	NT	NT	NT	NT	NT	NT	NT	NT
	09/24/08				ND	ND	ND	ND	ND	NT	NT	NT	NT	NT	NT	NT	NT
	04/27/09				ND	ND	ND	ND	ND	ND	ND	ND	NT	NT	NT	NT	NT
	10/26/09				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	NT	NT

Table 5 - 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-19A	MW-21A	MW-23A	MW-34A	MW-36A	MW-37A	MW-38A	MW-39A	MW-40A	GW Holding Pond
Lead	11/23/09	0.01	0.015	mg/L	NT	NT	NT	NT	NT	NT	NT	NT	ND	ND	NT	NT	NT
	12/17/09		(0.015)		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	NT	NT
	04/13/10				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	NT	NT
	05/18/10				NT	NT	NT	NT	NT	ND	ND	ND	ND	ND	NT	NT	NT
	06/21/10				NT	NT	NT	NT	NT	ND	ND	ND	ND	ND	NT	NT	NT
	07/09/10				NT	ND	NT	ND	NT	ND	NT	NT	ND	ND	NT	NT	NT
	08/18/10				NT	NT	NT	NT	NT	ND	ND	ND	ND	ND	NT	NT	NT
	10/18/10				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	NT	NT
	05/10/11				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	NT	NT
	10/19/11				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	NT	NT
	04/24/12				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	NT	NT
	08/06/12				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	NT	NT
	10/25/12*				ND	ND	ND	ND	ND	dry	ND	ND	ND	ND	0.024	NT	ND*
	05/07/13				NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND
	11/11/13				ND	ND	ND	ND	ND	0.01	ND	ND	ND	ND	ND	NT	ND
	05/13/14				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND
	11/12/14				ND	ND	ND	ND	ND	ND	ND	ND	frozen	frozen	ND	ND	ND
	03/18/15				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	NT
	05/27/15				NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	08/20/15				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	NT
	11/18/15				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	04/25/16				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	NT
	06/16/16				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	08/17/16				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	NT
	11/16/16				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	05/30/17				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	11/21/17				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	05/31/18				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/31/18				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	05/28/19				ND	ND	ND	ND	ND	ND	ND	Inaccessible	ND	ND	ND	ND	ND
	10/15/19				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	06/03/20				ND	ND	ND	ND	ND	ND	ND	Inaccessible	ND	ND	ND	ND	ND
	10/07/20				ND	ND	ND	ND	ND	ND	Inaccessible	Inaccessible	ND	ND	ND	ND	ND
	05/03/21				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	11/09/21				ND	ND	ND	ND	ND	ND	Inaccessible	Inaccessible	ND	ND	ND	ND	ND
	01/13/22				NT	NT	NT	NT	NT	NT	ND	ND	NT	NT	NT	NT	NT
	05/17/22				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/17/22				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	05/22/23**				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/5/23***				ND	ND	ND	ND	ND	ND	NT	NT	0.0113	ND	ND	ND	ND
	05/20/24				ND	ND	ND	ND	ND	ND	NT	NT	ND	ND	ND	ND	ND
	10/02/24				ND	ND	ND	ND	ND	ND	Inaccessible	NT	ND	ND	ND	ND	ND
	05/12/25				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nickel	04/29/08	0.01	na	mg/L	ND	ND	ND	0.018	ND	NT	NT	NT	NT	NT	NT	NT	NT
	05/22/08		(0.1)		ND	ND	ND	0.015	ND	NT	NT	NT	NT	NT	NT	NT	NT
	06/18/08				ND	ND	ND	0.014	ND	NT	NT	NT	NT	NT	NT	NT	NT
	08/13/08				ND	ND	ND	0.012	ND	NT	NT	NT	NT	NT	NT	NT	NT
	09/24/08				ND	ND	ND	0.012	ND	NT	NT	NT	NT	NT	NT	NT	NT
	04/27/09				ND	ND	ND	0.0121	ND	ND	ND	ND	NT	NT	NT	NT	NT
	10/26/09				ND	ND	ND	0.0313 (0.012)	ND	ND	ND	ND	0.0408	0.0284	NT	NT	NT
	11/23/09				NT	NT	NT	NT	NT	NT	NT	NT	0.039	0.0311	NT	NT	NT
	12/17/09				ND	ND	ND	0.0122 (0.0120)	ND	ND	ND	ND	0.040	0.0351	NT	NT	NT
	04/13/10				ND	ND	ND	0.0125	ND	ND	ND	ND	0.0378	0.0278	NT	NT	NT
	05/18/10				NT	NT	NT	NT	NT	ND	ND	ND	0.0359	0.028	NT	NT	NT
	06/21/10				NT	NT	NT	NT	NT	ND	ND	ND	0.0378	0.0282	NT	NT	NT
	07/09/10				NT	ND	NT	0.0141	NT	ND	NT	NT	0.0369	0.0269	NT	NT	NT
	08/18/10				NT	NT	NT	NT	NT	ND	ND	ND	0.0407	0.0326	NT	NT	NT
	10/18/10				ND	ND	ND	0.0124	ND	ND	ND	ND	0.0422	0.038	NT	NT	NT
	05/10/11				ND	ND	ND	0.014 (0.014)	ND	ND	ND	ND	0.038 (0.038)	0.025 (0.026)	NT	NT	NT
	10/19/11				ND	ND	ND	0.014	ND	ND	ND	ND	0.046	0.025	NT	NT	NT
	04/24/12				ND	ND	ND	0.013	ND	ND	ND	ND	0.048	0.027	NT	NT	NT
	08/06/12				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	NT	NT
	10/25/12*				0.023	ND	ND	0.012	ND	dry	ND	ND	0.054	0.024	0.03	NT	ND*
	05/07/13				NT	0.011	ND	0.011	ND	ND	ND	ND	0.066	0.025	ND	NT	ND
	11/11/13				ND	ND	ND	0.011	ND	0.1	ND	ND	0.06	0.026	ND	NT	ND
	05/13/14				ND	ND	ND	0.013	ND	ND	ND	ND	0.064	0.019	ND	NT	ND
	11/12/14				ND	ND	ND	0.013	ND	ND	ND	ND	frozen	frozen	ND	ND	ND
	03/18/15				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	NT
	05/27/15				NT	ND	ND	0.011	ND	ND	ND	ND	0.057	0.019	ND	ND	ND
	08/20/15				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	NT

Table 5 - 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-19A	MW-21A	MW-23A	MW-34A	MW-36A	MW-37A	MW-38A	MW-39A	MW-40A	GW Holding Pond
Nickel	11/18/15	0.01	na	mg/L	0.013	0.011	ND	ND	ND	ND	ND	ND	0.1	ND	ND	ND	ND
	04/25/16		(0.1)		NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	NT
	06/16/16				ND	ND	ND	0.014	ND	ND	ND	ND	0.045	0.01	ND	ND	ND
	08/17/16				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	NT
	11/16/16				ND	ND	ND	0.015	ND	ND	ND	ND	0.048	0.01	ND	ND	ND
	05/30/17				ND	ND	ND	0.016	ND	0.013	ND	ND	0.051	0.013	ND	ND	ND
	11/21/17				ND	ND	ND	0.013	ND	0.011	ND	ND	0.051	0.016	ND	ND	ND
	05/31/18				ND	ND	ND	0.015	ND	0.04	ND	ND	0.053	0.017	ND	ND	ND
	10/31/18				ND	0.010	ND	0.019	ND	0.016	0.017	ND	0.063	0.018	ND	ND	ND
	05/28/19				ND	ND	ND	0.016	ND	0.042	ND	Inaccessible	0.077	0.018	ND	ND	0.011
	10/15/19				ND	ND	ND	0.021	ND	0.021	0.021	ND	0.075	0.021	ND	ND	0.010
	06/03/20				ND	0.0106	ND	0.0221	ND	0.028	ND	Inaccessible	0.0834	0.0265	ND	ND	0.0137
	10/07/20				ND	ND	ND	0.0233	ND	0.0124	Inaccessible	Inaccessible	0.101	0.0309	ND	ND	ND
	05/03/21				ND	ND	ND	0.0181	ND	0.0261	ND	ND	0.0903	0.0277	ND	ND	ND
	11/09/21				ND	ND	ND	0.0177	ND	0.0158	Inaccessible	Inaccessible	0.106	0.0296	ND	ND	0.0168
	01/13/22				NT	NT	NT	NT	NT	NT	ND	ND	NT	NT	NT	NT	NT
	05/17/22				ND	0.0109	ND	0.0204	ND	0.0233	ND	ND	0.102	0.0306	ND	ND	0.0223
	7/28/22 (01)				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	0.0116
	7/28/22 (02)				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	0.0174
	10/17/22				ND	ND	ND	0.0261	ND	0.01	ND	ND	0.135	0.0361	ND	ND	ND
	05/22/23**				ND	ND	ND	0.0183	ND	0.0236	ND	ND	0.131	0.0257	ND	ND	0.0287
	10/5/23***				ND	0.0118	ND	0.0302	ND	0.0121	NT	NT	0.178	0.0288	ND	0.0234	0.0259
	05/20/24				ND	ND	ND	0.0261	ND	0.0185	NT	NT	0.181	0.0391	ND	ND	0.038
	07/18/24				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	0.0216
	10/02/24				ND	0.0132	ND	0.0251	ND	ND	Inaccessible	NT	0.258	0.0316	ND	ND	0.0364
	11/12/24				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	0.0328 [0.0342]
	05/12/25				ND	0.0145	ND	0.0386	ND	0.0136	ND	0.0713	0.278	0.0317	ND	ND	0.0221
Selenium	04/29/08	0.01	0.05	mg/L	ND	ND	ND	ND	ND	NT	NT	NT	NT	NT	NT	NT	NT
	05/22/08		(0.05)		ND	ND	ND	ND	ND	NT	NT	NT	NT	NT	NT	NT	NT
	06/18/08				ND	ND	ND	ND	ND	NT	NT	NT	NT	NT	NT	NT	NT
	08/13/08				ND	ND	ND	ND	ND	NT	NT	NT	NT	NT	NT	NT	NT
	09/24/08				ND	ND	ND	ND	ND	NT	NT	NT	NT	NT	NT	NT	NT
	04/27/09				ND	ND	ND	ND	ND	ND	ND	ND	NT	NT	NT	NT	NT
	10/26/09				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	NT	NT
	11/23/09				NT	NT	NT	NT	NT	NT	NT	NT	ND	ND	NT	NT	NT
	12/17/09				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	NT	NT
	04/13/10				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	NT	NT
	05/18/10				NT	NT	NT	NT	NT	ND	ND	ND	ND	ND	NT	NT	NT
	06/21/10				NT	NT	NT	NT	NT	ND	ND	ND	ND	ND	NT	NT	NT
	07/09/10				NT	ND	NT	ND	NT	ND	NT	NT	ND	ND	NT	NT	NT
	08/18/10				NT	NT	NT	NT	NT	ND	ND	ND	ND	ND	NT	NT	NT
	10/18/10				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	NT	NT
	05/10/11				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	NT	NT
	10/19/11				ND	ND	ND	ND	ND	ND	0.011	ND	ND	ND	NT	NT	NT
	04/24/12				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	NT	NT
	08/06/12				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	NT	NT
	10/25/12*				ND	ND	ND	ND	ND	dry	ND	ND	ND	ND	ND	NT	ND*
	05/07/13				NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND
	11/11/13				0.025	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND
	05/13/14				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND
	11/12/14				0.067	ND	ND	ND	ND	ND	ND	ND	frozen	frozen	ND	ND	ND
	03/18/15				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	NT
	05/27/15				NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	08/20/15				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	NT
	11/18/15				0.044	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	04/25/16				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	NT
	06/16/16				ND	ND	ND	ND	ND	ND	0.022	0.046	ND	ND	ND	ND	ND
	08/17/16				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	NT
	11/16/16				ND	ND	ND	ND	ND	ND	0.012	ND	ND	ND	ND	ND	ND
	05/30/17				ND	ND	ND	ND	ND	ND	0.025	0.038	ND	ND	ND	ND	ND
	11/21/17				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	05/31/18				ND	ND	ND	ND	ND	ND	ND	ND	0.026	ND	ND	ND	ND
	10/31/18				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	05/28/19				ND	ND	ND	ND	ND	ND	ND	Inaccessible	ND	ND	ND	ND	ND
	10/15/19				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	06/03/20				ND	ND	ND	ND	ND	ND	ND	Inaccessible	ND	ND	ND	ND	ND
	10/07/20				ND	ND	ND	ND	ND	ND	Inaccessible	Inaccessible	ND	ND	ND	ND	ND
	05/03/21				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	11/09/21				ND	ND	ND	ND	ND	ND	Inaccessible	Inaccessible	ND	ND	ND	ND	ND
	01/13/22				NT	NT	NT	NT	NT	NT	ND	ND	NT	NT	NT	NT	NT

Table 5 - 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-19A	MW-21A	MW-23A	MW-34A	MW-36A	MW-37A	MW-38A	MW-39A	MW-40A	GW Holding Pond
Selenium	05/17/22	0.01	0.05	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/17/22		(0.05)		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	05/22/23**				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/5/23***				ND	ND	ND	ND	ND	ND	NT	NT	ND	ND	ND	ND	ND
	05/20/24				ND	ND	ND	ND	ND	ND	NT	NT	ND	ND	ND	ND	ND
	10/02/24				ND	ND	ND	ND	ND	ND	Inaccessible	NT	ND	ND	ND	ND	ND
	05/12/25				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Silver	04/29/08	0.01	na	mg/L	ND	ND	ND	ND	ND	NT	NT	NT	NT	NT	NT	NT	NT
	05/22/08		(0.1)		ND	ND	ND	ND	ND	NT	NT	NT	NT	NT	NT	NT	NT
	06/18/08				ND	ND	ND	ND	ND	NT	NT	NT	NT	NT	NT	NT	NT
	08/13/08				ND	ND	ND	ND	ND	NT	NT	NT	NT	NT	NT	NT	NT
	09/24/08				ND	ND	ND	ND	ND	NT	NT	NT	NT	NT	NT	NT	NT
	04/27/09				ND	ND	ND	ND	ND	ND	ND	ND	NT	NT	NT	NT	NT
	10/26/09				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	NT	NT
	11/23/09				NT	NT	NT	NT	NT	NT	NT	NT	ND	ND	NT	NT	NT
	12/17/09				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	NT	NT
	04/13/10				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	NT	NT
	05/18/10				NT	NT	NT	NT	NT	ND	ND	ND	ND	ND	NT	NT	NT
	06/21/10				NT	NT	NT	NT	NT	ND	ND	ND	ND	ND	NT	NT	NT
	07/09/10				NT	ND	NT	ND	NT	ND	NT	NT	ND	ND	NT	NT	NT
	08/18/10				NT	NT	NT	NT	NT	ND	ND	ND	ND	ND	NT	NT	NT
	10/18/10				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	NT	NT
	05/10/11				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	NT	NT
	10/19/11				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	NT	NT
	04/24/12				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	NT	NT
	08/06/12				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	NT	NT
	10/25/12*				ND	ND	ND	ND	ND	dry	ND	ND	ND	ND	ND	NT	ND*
	05/07/13				NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND
	11/11/13				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND
	05/13/14				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND
	11/12/14				ND	ND	ND	ND	ND	ND	ND	ND	frozen	frozen	ND	ND	ND
	03/18/15				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	NT
	05/27/15				NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	08/20/15				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	NT
	11/18/15				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	04/25/16				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	NT
	06/16/16				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	08/17/16				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	NT
	11/16/16				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	05/30/17				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	11/21/17				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	05/31/18				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/31/18				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	05/28/19				ND	ND	ND	ND	ND	ND	ND	Inaccessible	ND	ND	ND	ND	ND
	10/15/19				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	06/03/20				ND	ND	ND	ND	ND	ND	ND	Inaccessible	ND	ND	ND	ND	ND
	10/07/20				ND	ND	ND	ND	ND	ND	Inaccessible	Inaccessible	ND	ND	ND	ND	ND
	05/03/21				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	11/09/21				ND	ND	ND	ND	ND	ND	Inaccessible	Inaccessible	ND	ND	ND	ND	ND
	01/13/22				NT	NT	NT	NT	NT	NT	ND	ND	NT	NT	NT	NT	NT
	05/17/22				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/17/22				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	05/22/23**				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/5/23***				ND	ND	ND	ND	ND	ND	NT	NT	ND	ND	ND	ND	ND
	05/20/24				ND	ND	ND	ND	ND	ND	NT	NT	ND	ND	ND	ND	ND
	10/02/24				ND	ND	ND	ND	ND	ND	Inaccessible	NT	ND	ND	ND	ND	ND
	05/12/25				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Thallium	04/29/08	2	2	µg/L	ND	ND	ND	ND	ND	NT	NT	NT	NT	NT	NT	NT	NT
	05/22/08		(2)		ND	ND	ND	ND	ND	NT	NT	NT	NT	NT	NT	NT	NT
	06/18/08				ND	ND	ND	ND	ND	NT	NT	NT	NT	NT	NT	NT	NT
	08/13/08				ND	ND	ND	ND	ND	NT	NT	NT	NT	NT	NT	NT	NT
	09/24/08				ND	ND	ND	ND	ND	NT	NT	NT	NT	NT	NT	NT	NT
	04/27/09				ND	ND	ND	ND	ND	ND	ND	ND	NT	NT	NT	NT	NT
	10/26/09				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	NT	NT
	11/23/09				NT	NT	NT	NT	NT	NT	NT	NT	ND	ND	NT	NT	NT
	12/17/09				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	NT	NT
	04/13/10				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	NT	NT
	05/18/10				NT	NT	NT	NT	NT	ND	ND	ND	ND	ND	NT	NT	NT
	06/21/10				NT	NT	NT	NT	NT	ND	ND	ND	ND	ND	NT	NT	NT

Table 5 - 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-19A	MW-21A	MW-23A	MW-34A	MW-36A	MW-37A	MW-38A	MW-39A	MW-40A	GW Holding Pond
Thallium	07/09/10	2	2	µg/L	NT	ND	NT	ND	NT	ND	NT	NT	ND	ND	NT	NT	NT
	08/18/10		(2)		NT	NT	NT	NT	NT	ND	ND	ND	ND	ND	NT	NT	NT
	10/18/10				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	NT	NT
	05/10/11				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	NT	NT
	10/19/11				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	NT	NT
	04/24/12				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	NT	NT
	08/06/12				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	NT	NT
	10/25/12*				ND	ND	ND	ND	ND	dry	ND	ND	ND	ND	ND	NT	ND*
	05/07/13				NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND
	11/11/13				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND
	05/13/14				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND
	11/12/14				ND	ND	ND	ND	ND	ND	ND	ND	frozen	frozen	ND	ND	ND
	03/18/15				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	NT
	05/27/15				NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	08/20/15				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	NT
	11/18/15				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	04/25/16				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	NT
	06/16/16				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	08/17/16				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	NT
	11/16/16				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	05/30/17				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	11/21/17				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	05/31/18				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/31/18				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	05/28/19				ND	ND	ND	ND	ND	ND	ND	Inaccessible	ND	ND	ND	ND	ND
	10/15/19				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	06/03/20				ND	ND	ND	ND	ND	ND	ND	Inaccessible	ND	ND	ND	ND	ND
	10/07/20				ND	ND	ND	ND	ND	ND	Inaccessible	Inaccessible	ND	ND	ND	ND	ND
	05/03/21				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	11/09/21				ND	ND	ND	ND	ND	2.44	Inaccessible	Inaccessible	ND	ND	ND	ND	ND
	01/13/22				NT	NT	NT	NT	NT	ND	ND	ND	NT	NT	NT	NT	NT
	05/17/22				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/17/22				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	05/22/23**				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/5/23***				ND	ND	ND	ND	ND	ND	NT	NT	ND	ND	ND	ND	ND
	05/20/24				ND	ND	ND	ND	ND	ND	NT	NT	ND	ND	ND	ND	ND
	10/02/24				ND	ND	ND	ND	ND	ND	Inaccessible	NT	ND	ND	ND	ND	ND
	05/12/25				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vanadium	04/29/08	0.02	na	mg/L	ND	ND	ND	0.022	ND	NT	NT	NT	NT	NT	NT	NT	NT
	05/22/08		(0.049)		ND	ND	ND	ND	ND	NT	NT	NT	NT	NT	NT	NT	NT
	06/18/08				ND	ND	ND	ND	ND	NT	NT	NT	NT	NT	NT	NT	NT
	08/13/08				ND	ND	ND	ND	ND	NT	NT	NT	NT	NT	NT	NT	NT
	09/24/08				ND	ND	ND	ND	ND	NT	NT	NT	NT	NT	NT	NT	NT
	04/27/09				ND	ND	ND	ND	ND	ND	ND	ND	NT	NT	NT	NT	NT
	10/26/09				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	NT	NT
	11/23/09				NT	NT	NT	NT	NT	NT	NT	NT	ND	ND	NT	NT	NT
	12/17/09				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	NT	NT
	04/13/10				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	NT	NT
	05/18/10				NT	NT	NT	NT	NT	ND	ND	ND	ND	ND	NT	NT	NT
	06/21/10				NT	NT	NT	NT	NT	ND	ND	ND	ND	ND	NT	NT	NT
	07/09/10				NT	ND	NT	ND	NT	ND	NT	NT	ND	ND	NT	NT	NT
	08/18/10				NT	NT	NT	NT	NT	ND	ND	ND	ND	ND	NT	NT	NT
	10/18/10				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	NT	NT
	05/10/11				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	NT	NT
	10/19/11				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	NT	NT
	04/24/12				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	NT	NT
	08/06/12				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	NT	NT
	10/25/12*				0.055	ND	ND	ND	ND	dry	ND	ND	ND	ND	0.05	NT	ND*
	05/07/13				NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND
	11/11/13				ND	ND	ND	ND	ND	0.17	ND	ND	ND	ND	ND	NT	ND
	05/13/14				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND
	11/12/14				ND	ND	ND	ND	ND	ND	ND	ND	frozen	frozen	ND	ND	ND
	03/18/15				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	0.02	NT
	05/27/15				NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	08/20/15				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	NT
	11/18/15				0.033	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	04/25/16				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	NT
	06/16/16				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	08/17/16				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	NT
	11/16/16		(0.035)		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Table 5 - 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-19A	MW-21A	MW-23A	MW-34A	MW-36A	MW-37A	MW-38A	MW-39A	MW-40A	GW Holding Pond
Vanadium	05/30/17	0.02	na	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	11/21/17		(0.035)		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	05/31/18				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/31/18				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	05/28/19				ND	ND	ND	ND	ND	ND	ND	Inaccessible	ND	ND	ND	ND	ND
	10/15/19				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	06/03/20				ND	ND	ND	ND	ND	ND	ND	Inaccessible	ND	ND	ND	ND	ND
	10/07/20				ND	ND	ND	ND	ND	ND	Inaccessible	Inaccessible	ND	ND	ND	ND	ND
	05/03/21				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	11/09/21				ND	ND	ND	ND	ND	ND	Inaccessible	Inaccessible	ND	ND	ND	ND	ND
	01/13/22				NT	NT	NT	NT	NT	NT	ND	ND	NT	NT	NT	NT	NT
	05/17/22				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/17/22				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	05/22/23**				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/5/23***				ND	ND	ND	ND	ND	ND	NT	NT	ND	ND	ND	ND	ND
	05/20/24				ND	ND	ND	ND	ND	ND	NT	NT	ND	ND	ND	ND	ND
	10/02/24				ND	ND	ND	ND	ND	ND	Inaccessible	NT	ND	ND	ND	ND	ND
	05/12/25				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Zinc	04/29/08	0.02	na	mg/L	ND	ND	ND	ND	ND	NT	NT	NT	NT	NT	NT	NT	NT
	05/22/08		(2)		ND	ND	ND	ND	ND	NT	NT	NT	NT	NT	NT	NT	NT
	06/18/08				ND	ND	ND	ND	ND	NT	NT	NT	NT	NT	NT	NT	NT
	08/13/08				ND	ND	ND	ND	ND	NT	NT	NT	NT	NT	NT	NT	NT
	09/24/08				ND	ND	ND	ND	ND	NT	NT	NT	NT	NT	NT	NT	NT
	04/27/09				ND	ND	ND	ND	ND	ND	ND	ND	NT	NT	NT	NT	NT
	10/26/09				0.034	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	NT	NT
	11/23/09				NT	NT	NT	NT	NT	NT	NT	NT	ND	ND	NT	NT	NT
	12/17/09				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	NT	NT
	04/13/10				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	NT	NT
	05/18/10				NT	NT	NT	NT	NT	ND	ND	ND	ND	ND	NT	NT	NT
	06/21/10				NT	NT	NT	NT	NT	ND	ND	ND	ND	ND	NT	NT	NT
	07/09/10				NT	ND	NT	ND	NT	ND	NT	NT	ND	ND	NT	NT	NT
	08/18/10				NT	NT	NT	NT	NT	ND	ND	ND	ND	ND	NT	NT	NT
	10/18/10				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	NT	NT
	05/10/11				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	NT	NT
	10/19/11				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	NT	NT
	04/24/12				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	NT	NT
	08/06/12				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	NT	NT
	10/25/12*				0.052	ND	ND	ND	ND	dry	ND	ND	ND	ND	0.055	NT	ND*
	05/07/13				NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND
	11/11/13				ND	ND	ND	ND	ND	0.17	ND	ND	0.024	ND	ND	NT	ND
	05/13/14				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	ND
	11/12/14				0.026	ND	ND	ND	ND	ND	ND	ND	frozen	frozen	ND	0.025	ND
	03/18/15				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	0.027	NT
	05/27/15				NT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	08/20/15				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	NT
	11/18/15				0.032	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	04/25/16				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	NT
	06/16/16				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	08/17/16				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	NT
	11/16/16				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	05/30/17				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	11/21/17				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	05/31/18				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/31/18				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	05/28/19				ND	ND	ND	ND	ND	ND	ND	Inaccessible	ND	ND	ND	ND	ND
	10/15/19				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	06/03/20	*0.05*			ND	ND	ND	ND	ND	ND	ND	Inaccessible	ND	ND	ND	ND	ND
	10/07/20				ND	ND	ND	ND	ND	ND	Inaccessible	Inaccessible	ND	ND	ND	ND	ND
	05/03/21				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	11/09/21				ND	ND	ND	ND	ND	ND	Inaccessible	Inaccessible	ND	ND	ND	ND	ND
	01/13/22				NT	NT	NT	NT	NT	NT	ND	ND	NT	NT	NT	NT	NT
	05/17/22				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/17/22				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	05/22/23**				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/5/23***				ND	ND	ND	ND	ND	ND	NT	NT	ND	ND	ND	ND	ND
	05/20/24				ND	ND	ND	ND	ND	ND	NT	NT	ND	ND	ND	ND	ND
	10/02/24				ND	ND	ND	ND	ND	ND	Inaccessible	NT	ND	ND	ND	ND	ND
	05/12/25				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Table 5 - 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-19A	MW-21A	MW-23A	MW-34A	MW-36A	MW-37A	MW-38A	MW-39A	MW-40A	GW Holding Pond
Total Suspended Solids (TSS)	06/16/16	2	na	mg/L	8.8	28.7	ND	18.4	ND	5.2	ND	ND	81.0	ND	32.4	11.2	4.4
	08/17/16				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	14.0	NT
	11/16/16				8.0	19.2	ND	5.6	ND	ND	ND	ND	37.6	7.6	61.2	8.8	19.2
	05/30/17				6.8	13.2	ND	6.4	ND	2.4	ND	ND	50.0	4.4	65.6	7.6	7.2
	11/21/17				12.4	15.2	ND	12.4	ND	ND	32.4	ND	31.2	5.6	20.8	6	5.6
	05/31/18				ND	12	ND	7.2	ND	4	3.2	2.8	21.6	3.6	14	ND	ND
	10/31/18				4.4	12.0	ND	24.0	ND	ND	40.8	ND	56.4	35.6	98.0	4.4	33.6
	05/28/19				3.2	29.6	ND	24.4	ND	10.4	38	Inaccessible	55.2	18.8	60.4	6.4	75.6
	10/15/19				35.2	17.6	ND	10.4	ND	10.8	46.8	2.0	15.6	ND	13.2	2.4	2.4
	06/03/20	*2.5*			6.4	20.0	ND	17.0	ND	8.2	33.8	Inaccessible	65.3	13.0	24.7	13.2	ND
	10/07/20				11.7	13.5	ND	20.4	ND	3.7	Inaccessible	Inaccessible	455	4.3	32.4	91.6	11.4
	05/03/21				7.7	23.2	ND	16.2	4.1	14.5	5.9	71.4	73	ND	5.5	28.8	3.5
	5/3/21 (2)				NT	NT	NT	NT	NT	NT	NT	NT	76.1	NT	NT	NT	NT
	11/09/21				32.6	13.7	ND	28.3	ND	8.4	Inaccessible	Inaccessible	54.9	3	54.7	18.9	3.8
	01/13/22				NT	NT	NT	NT	NT	NT	ND	ND	NT	NT	NT	NT	NT
	05/17/22				5.6	26	ND	19.9	ND	4.1	69.8	6.1	69.5	4.6	35	43.1	13.8
	10/17/22				23.5	26.8	ND	40.4	ND	5.6	133	5.1	64	8.3	18.8	62.5	3.4
	05/22/23**				4.1	33.3	29.6	12.2	ND	11.1	63.8	4.1	62.6	5.4	49.7	ND	51.8
	10/5/23***				26.9	13.6	11	15.4	ND	12	NT	NT	151	319	29.3	168	18
	05/20/24				3.8	30.4	10	20.3	3.3	34.2	NT	NT	76.4	4.9	31.3	6.3	6.2
	10/02/24				3.7	12.8	5.81	39	2.5	17	Inaccessible	NT	86	23.4	12.4	6.8	5.9
	05/12/25				3.6	12.8	15.6	15.1	<2.5	23.8	8.2	2.6	76	<2.5	11.1	17.8	5.6
Appendix II [3]																	
Cyanide	10/26/09	10	200	µg/L	NT	ND	NT	ND	NT	NT	NT	NT	NT	NT	NT	NA	NT
	12/17/09		(200)		NT	ND	NT	ND	NT	NT	NT	NT	NT	NT	NT	NA	NT
	07/09/10				NT	ND	NT	ND	NT	ND	NT	NT	ND	ND	NT	NA	NT
	08/18/10				NT	NT	NT	NT	NT	ND	NT	NT	ND	ND	NT	NA	NT
	10/18/10				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NA	NT
	05/10/11				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	NA	NT
	10/19/11				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NA	NT
	05/07/13				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NA	NT
	11/11/13				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NA	NT
	05/13/14				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NA	NT
	11/12/14				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
	05/27/15				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
	11/18/15				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
	06/16/16				NT	ND	NT	ND	NT	NT	NT	NT	ND	ND	NT	NT	NT
	11/16/16				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
	05/30/17				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
	11/21/17				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
	05/31/18				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
	10/31/18				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
	05/28/19				NT	NT	NT	NT	NT	NT	NT	Inaccessible	NT	NT	NT	NT	NT
	10/15/19				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
	06/03/20				NT	NT	NT	NT	NT	NT	NT	Inaccessible	NT	NT	NT	NT	NT
	10/07/20				NT	NT	NT	NT	NT	NT	Inaccessible	Inaccessible	NT	NT	NT	NT	NT
	05/03/21				NT	ND	NT	ND	NT	ND	NT	NT	16.4	14.1	NT	NT	NT
	11/09/21				NT	NT	NT	NT	NT	NT	NT	NT	ND	NT	NT	NT	NT
	12/21/21				NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	NT	NT	NT
Mercury	10/26/09	0.4	2	µg/L	NT	ND	NT	ND	NT	NT	NT	NT	NT	NT	NT	NA	NT
	12/17/09		(2)		NT	ND	NT	ND	NT	NT	NT	NT	NT	NT	NT	NA	NT
	07/09/10				NT	ND	NT	ND	NT	ND	NT	NT	ND	ND	NT	NA	NT
	08/18/10				NT	NT	NT	NT	NT	ND	NT	NT	ND	ND	NT	NA	NT
	10/18/10				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NA	NT
	05/10/11				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	NA	NT
	10/19/11				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NA	NT
	05/07/13				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NA	NT
	11/11/13				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NA	NT
	05/13/14				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NA	NT
	11/12/14				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
	05/27/15				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
	11/18/15				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
	06/16/16				NT	ND	NT	ND	NT	NT	NT	NT	ND	ND	NT	NT	NT
	11/16/16				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
	05/30/17				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
	11/21/17				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
	05/31/18				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
	10/31/18				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
	05/28/19				NT	NT	NT	NT	NT	NT	NT	Inaccessible	NT	NT	NT	NT	NT

Table 5 - 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-19A	MW-21A	MW-23A	MW-34A	MW-36A	MW-37A	MW-38A	MW-39A	MW-40A	GW Holding Pond
Mercury	10/15/19	0.4	2	µg/L	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
	06/03/20		(2)		NT	NT	NT	NT	NT	NT	NT	Inaccessible	NT	NT	NT	NT	NT
	10/07/20				NT	NT	NT	NT	NT	NT	Inaccessible	Inaccessible	NT	NT	NT	NT	NT
	05/03/21				NT	ND	NT	ND	NT	ND	NT	NT	ND	ND	NT	NT	NT
	11/09/21				NT	NT	NT	NT	NT	NT	Inaccessible	Inaccessible	NT	NT	NT	NT	NT
Sulfide	10/26/09	1	na	mg/L	NT	ND	NT	ND	NT	NT	NT	NT	NT	NT	NT	NA	NT
	12/17/09				NT	ND	NT	ND	NT	NT	NT	NT	NT	NT	NT	NA	NT
	07/09/10				NT	ND	NT	ND	NT	ND	NT	NT	ND	ND	NT	NA	NT
	08/18/10				NT	NT	NT	NT	NT	ND	NT	NT	ND	ND	NT	NA	NT
	10/18/10				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NA	NT
	05/10/11				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	NA	NT
	10/19/11				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NA	NT
	05/07/13				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NA	NT
	11/11/13				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NA	NT
	05/13/14				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NA	NT
	11/12/14				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
	05/27/15				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
	11/18/15				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
	06/16/16				NT	ND	NT	ND	NT	ND	NT	NT	ND	ND	NT	NT	NT
	11/16/16				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
	05/30/17				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
	11/21/17				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
	10/31/18				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
	05/28/19				NT	NT	NT	NT	NT	NT	NT	Inaccessible	NT	NT	NT	NT	NT
	10/15/19				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
	06/03/20				NT	NT	NT	NT	NT	NT	NT	Inaccessible	NT	NT	NT	NT	NT
	10/07/20				NT	NT	NT	NT	NT	NT	Inaccessible	Inaccessible	NT	NT	NT	NT	NT
	05/03/21				NT	ND	NT	ND	NT	ND	NT	NT	ND	ND	NT	NT	NT
	11/09/21				NT	NT	NT	NT	NT	NT	Inaccessible	Inaccessible	NT	NT	NT	NT	NT
Tin	10/26/09	20	na	µg/L	NT	ND	NT	ND	NT	NT	NT	NT	NT	NT	NT	NA	NT
	12/17/09		(4,200)		NT	ND	NT	ND	NT	NT	NT	NT	NT	NT	NT	NA	NT
	07/09/10				NT	ND	NT	ND	NT	ND	NT	NT	ND	ND	NT	NA	NT
	08/18/10				NT	NT	NT	NT	NT	ND	NT	NT	ND	ND	NT	NA	NT
	10/18/10				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NA	NT
	05/10/11				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NA	NT
	10/19/11				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NA	NT
	05/07/13				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NA	NT
	11/11/13				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NA	NT
	05/13/14				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NA	NT
	11/12/14				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
	05/27/15				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
	11/18/15				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
	06/16/16				NT	ND	NT	ND	NT	ND	NT	NT	ND	ND	NT	NT	NT
	11/16/16				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
	05/30/17				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
	11/21/17				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
	05/31/18				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
	10/31/18				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
	05/28/19				NT	NT	NT	NT	NT	NT	NT	Inaccessible	NT	NT	NT	NT	NT
	10/15/19				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
	06/03/20				NT	NT	NT	NT	NT	NT	NT	Inaccessible	NT	NT	NT	NT	NT
	10/07/20				NT	NT	NT	NT	NT	NT	Inaccessible	Inaccessible	NT	NT	NT	NT	NT
	05/03/21	*50*			NT	ND	NT	ND	NT	ND	NT	NT	ND	ND	NT	NT	NT
	11/09/21				NT	NT	NT	NT	NT	NT	Inaccessible	Inaccessible	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 6 - 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 6 - 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	448	NT	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 6 - 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 7 - 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-19A	MW-21A	MW-23A	MW-34A	MW-36A	MW-37A	MW-38A	MW-39A	MW-40A	GW Holding Pond	Blank
1,1-Dichloroethane	04/24/08	1	na	µg/L	ND	120	ND	ND	ND	NT	NT	NT	NT	NT	NT	NA	NT	ND
	05/22/08		(140)		ND	130 (140)	ND	2.3	ND	NT	NT	NT	NT	NT	NT	NA	NT	ND
	06/18/08				ND	120	ND	4.1	ND	NT	NT	NT	NT	NT	NT	NA	NT	ND
	08/13/08				ND	120	ND	2.7	ND	NT	NT	NT	NT	NT	NT	NA	NT	ND
	09/24/08				ND	120	ND	1.5	ND	NT	NT	NT	NT	NT	NT	NA	NT	ND
	04/27/09				ND	110	ND	2.2	ND	ND	ND	ND	NT	NT	NT	NA	NT	ND
	10/26/09				ND	94 (97)	ND	1.3 (1.4)	ND	ND	ND	ND	ND	ND	NT	NA	NT	ND
	11/23/09				ND	NT	NT	NT	NT	NT	NT	NT	ND	ND	NT	NA	NT	NT
	12/17/09				ND	93 (85)	ND	ND	ND	ND	ND	ND	ND	ND	NT	NA	NT	ND
	04/13/10				ND	70	ND	1.4	ND	ND	ND	ND	ND	3.5	NT	NA	NT	ND
	05/18/10				ND	NT	NT	NT	NT	ND	ND	ND	ND	3.7	NT	NA	NT	ND
	06/21/10				ND	NT	NT	NT	NT	ND	ND	ND	ND	2.0	NT	NA	NT	ND
	07/09/10				ND	90	NT	3	NT	ND	NT	NT	ND	1.7	NT	NA	NT	ND
	08/18/10				ND	NT	NT	NT	NT	ND	ND	ND	ND	1.4	NT	NA	NT	ND
	10/18/10				ND	81	ND	1.3	ND	ND	ND	ND	ND	ND	NT	NA	NT	ND
	05/10/11				ND	64	ND	1.8	ND	ND	ND	ND	ND	3.4	NT	NA	NT	ND
	10/19/11				ND	70	ND	ND	ND	ND	ND	ND	ND	1.2	NT	NA	NT	ND
	04/24/12				ND	81	ND	ND	ND	ND	ND	ND	ND	ND	NT	NA	NT	ND
	08/06/12				ND	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	NA	NT	NT
	10/25/12*				ND	75	ND	ND	ND	dry	ND	ND	ND	ND	ND	NA	2.3*	NT
	05/07/13				ND	83	ND	1.8	ND	ND	ND	ND	ND	5.9	ND	NA	ND	ND
	11/11/13				ND	61	ND	1.4	ND	ND	ND	ND	ND	1.3	ND	NA	ND	ND
	05/13/14				ND	71	ND	ND	ND	ND	ND	ND	ND	1.5	ND	NA	ND	ND
	11/12/14				ND	64	ND	ND	ND	ND	ND	ND	frozen	frozen	ND	ND	ND	ND
	03/18/15				ND	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	NT	ND
	05/27/15				ND	67	ND	ND	ND	ND	ND	ND	ND	1.1	ND	ND	ND	ND
	08/20/15				ND	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	NT	ND
	11/18/15				ND	57	ND	ND	ND	ND	ND	ND	ND	1.3	ND	ND	ND	ND
	04/25/16				ND	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	NT	ND
	06/16/16				ND	35	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	08/17/16				ND	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	ND	NT	ND
	11/16/16				ND	33	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.8	ND
	05/30/17				ND	33	ND	1.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	11/21/17				ND	42	ND	ND	ND	ND	ND	ND	ND	1.2	ND	ND	1	ND
	04/12/18				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	NT
	05/31/18				ND	40	ND	2.4	ND	ND	ND	ND	ND	1.5	ND	ND	ND	ND
	10/31/18				ND	44	ND	ND	ND	ND	ND	ND	ND	1.8	ND	ND	ND	ND
	05/28/19				ND	32	ND	1	ND	ND	ND	Inaccessible	ND	ND	ND	ND	ND	ND
	10/15/19				ND	26	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1	ND
	06/03/20				ND	32.9	ND	1.36	ND	ND	ND	Inaccessible	ND	2.26	ND	ND	ND	ND
	10/07/20				ND	27	ND	ND	ND	ND	Inaccessible	Inaccessible	ND	1.8	ND	ND	1.77	ND
	05/03/21				ND	17.6	ND	ND	ND	ND	ND	ND	ND	1.83	ND	ND	ND	ND
	11/09/21				ND	25.8	ND	ND	ND	ND	Inaccessible	Inaccessible	ND	2.53	ND	ND	2.02	ND
	01/13/22				NT	NT	NT	NT	NT	NT	ND	ND	NT	NT	NT	NT	NT	NT
	05/17/22				ND	21.5	ND	ND	ND	ND	ND	ND	ND	2.32	ND	ND	ND	ND
	10/17/22				ND	24.5	ND	ND	ND	ND	ND	ND	ND	2.42	ND	ND	ND	ND
	05/22/23**				ND	20.1	ND	ND	ND	ND	ND	ND	ND	1.75	ND	ND	ND	ND
	10/5/2023***				ND	28.7	ND	ND	ND	ND	NT	NT	ND	1.33	ND	ND	1.69	ND
	05/20/24				ND	14.6	ND	ND	ND	ND	NT	NT	ND	1.16	ND	ND	ND	ND
	10/02/24				ND	18.2	ND	ND	ND	ND	Inaccessible	NT	ND	1.61	ND	ND	ND	ND
	05/12/25				ND	27	ND	ND	ND	ND	ND	ND	ND	1.82	ND	ND	ND	ND
1,2-Dichloropropane	04/24/08	1	5	µg/L	ND	5.3	ND	ND	ND	NT	NT	NT	NT	NT	NT	NA	NT	ND
	05/22/08		(5)		ND	6.4	ND	ND	ND	NT	NT	NT	NT	NT	NT	NA	NT	ND
	05/22/08				ND	6.4 (6.2)	ND	ND	ND	NT	NT	NT	NT	NT	NT	NA	NT	ND
	06/18/08				ND	ND	ND	ND	ND	NT	NT	NT	NT	NT	NT	NA	NT	ND
	08/13/08				ND	ND	ND	ND	ND	NT	NT	NT	NT	NT	NT	NA	NT	ND
	09/24/08				ND	ND	ND	ND	ND	NT	NT	NT	NT	NT	NT	NA	NT	ND
	04/27/09				ND	5.6	ND	ND	ND	ND	ND	ND	NT	NT	NT	NA	NT	ND
	10/26/09				ND	4.9 (5)	ND	ND (ND)	ND	ND	ND	ND	ND	ND	NT	NA	NT	ND
	11/23/09				NT	NT	NT	NT	NT	NT	NT	NT	ND	ND	NT	NA	NT	NT
	12/17/09				ND	5.7 (4.8)	ND	ND	ND	ND	ND	ND	ND	ND	NT	NA	NT	ND
	04/13/10				ND	5.9	ND	ND	ND	ND	ND	ND	ND	ND	NT	NA	NT	ND
	05/18/10				NT	NT	NT	NT	NT	ND	ND	ND	ND	ND	NT	NA	NT	ND
	06/21/10				NT	NT	NT	NT	NT	ND	ND	ND	ND	ND	NT	NA	NT	ND
	07/09/10				NT	6.4	NT	ND	NT	ND	NT	NT	ND	ND	NT	NA	NT	ND
	08/18/10				NT	NT	NT	NT	NT	ND	ND	ND	ND	ND	NT	NA	NT	ND
	10/18/10				ND	5.8	ND	ND	ND	ND	ND	ND	ND	ND	NT	NA	NT	ND
	05/10/11				ND	4.9	ND	ND	ND	ND	ND	ND	ND	ND	NT	NA	NT	ND
	10/19/11				ND	4.8	ND	ND	ND	ND	ND	ND	ND	ND	NT	NA	NT	ND
	04/24/12				ND	5.3	ND	ND	ND	ND	ND	ND	ND	ND	NT	NA	NT	ND
	08/06/12				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	NA	NT	NT
	10/25/12*				ND	5.1	ND	ND	ND	dry	ND	ND	ND	ND	ND	NA	ND*	NT
	05/07/13				Dry	5.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
	11/11/13				ND	4.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
	05/13/14				Dry	4.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
	11/12/14				ND	4.6	ND	ND	ND	ND	ND	ND	frozen	frozen	ND	ND	ND	ND
	03/18/15				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	NT	ND
	05/27/15				ND	4.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	08/20/15				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	NT	ND

Table 7 - 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-19A	MW-21A	MW-23A	MW-34A	MW-36A	MW-37A	MW-38A	MW-39A	MW-40A	GW Holding Pond	Blank
1,2-Dichloropropane	11/18/15	1	5	µg/L	ND	4.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	04/25/16		(5)		NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	NT	ND
	06/16/16				ND	3.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	08/17/16				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	NT	ND
	11/16/16				ND	3.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	05/30/17				ND	3.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	11/21/17				ND	3.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	05/31/18				ND	2.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/31/18				ND	2.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	05/28/19				ND	2.2	ND	ND	ND	ND	ND	Inaccessible	ND	ND	ND	ND	ND	ND
	10/15/19				ND	2.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	06/03/20				ND	1.99	ND	ND	ND	ND	ND	Inaccessible	ND	ND	ND	ND	ND	ND
	10/07/20				ND	1.89	ND	ND	ND	ND	Inaccessible	Inaccessible	ND	ND	ND	ND	ND	ND
	05/03/21				ND	1.33	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	11/09/21				ND	1.76	ND	ND	ND	ND	Inaccessible	Inaccessible	ND	ND	ND	ND	ND	ND
	01/13/22				NT	NT	NT	NT	NT	NT	ND	ND	NT	NT	NT	NT	NT	NT
	05/17/22				ND	1.47	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/17/22				ND	1.66	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	05/22/23**				ND	1.35	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/5/2023***				ND	1.81	ND	ND	ND	ND	NT	NT	ND	ND	ND	ND	ND	ND
	05/20/24				ND	1.02	ND	ND	ND	ND	NT	NT	ND	ND	ND	ND	ND	ND
	10/02/24				ND	1.17	ND	ND	ND	ND	Inaccessible	NT	ND	ND	ND	ND	ND	ND
	05/12/25				ND	1.75	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	04/24/08	1	5	µg/L	ND	2.6	ND	ND	ND	NT	NT	NT	NT	NT	NT	NA	NT	ND
	05/22/08		(5)		ND	2.6	ND	ND	ND	NT	NT	NT	NT	NT	NT	NA	NT	ND
	06/18/08				ND	ND	ND	ND	ND	NT	NT	NT	NT	NT	NT	NA	NT	ND
	08/13/08				ND	ND	ND	ND	ND	NT	NT	NT	NT	NT	NT	NA	NT	ND
	09/24/08				ND	ND	ND	ND	ND	NT	NT	NT	NT	NT	NT	NA	NT	ND
	04/27/09				ND	2.0	ND	ND	ND	ND	ND	ND	NT	NT	NT	NA	NT	ND
	10/26/09				ND	1.8 (1.9)	ND	ND (ND)	ND	ND	ND	ND	ND	ND	NT	NA	NT	ND
	11/23/09				NT	NT	NT	NT	NT	NT	NT	NT	ND	ND	NT	NA	NT	NT
	12/17/09				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	NA	NT	ND
	04/13/10				ND	2.7	ND	ND	ND	ND	ND	ND	ND	ND	NT	NA	NT	ND
	05/18/10				NT	NT	NT	NT	NT	ND	ND	ND	ND	ND	NT	NA	NT	ND
	06/21/10				NT	NT	NT	NT	NT	ND	ND	ND	ND	ND	NT	NA	NT	ND
	07/09/10				NT	2.1	NT	ND	NT	ND	NT	NT	ND	ND	NT	NA	NT	ND
	08/18/10				NT	NT	NT	NT	NT	ND	ND	ND	ND	ND	NT	NA	NT	ND
	10/18/10				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	NA	NT	ND
	05/10/11				ND	1.7	ND	ND	ND	ND	ND	ND	ND	ND	NT	NA	NT	ND
	10/19/11				ND	1.1	ND	ND	ND	ND	ND	ND	ND	ND	NT	NA	NT	ND
	04/24/12				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	NA	NT	ND
	08/06/12				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	NA	NT	NT
	10/25/12*				ND	ND	ND	ND	ND	dry	ND	ND	ND	ND	ND	NA	ND*	NT
	05/07/13				Dry	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
	11/11/13				ND	1.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
	05/13/14				Dry	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
	11/12/14				ND	1.2	ND	ND	ND	ND	ND	ND	frozen	frozen	ND	ND	ND	ND
	03/18/15				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	NT	ND
	05/27/15				ND	1.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	08/20/15				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	NT	ND
	11/18/15				ND	1.3	ND	ND	ND	2.3	ND	ND	ND	ND	ND	ND	ND	ND
	04/25/16				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	NT	ND
	06/16/16				ND	1.2	ND	ND	ND	2.1	ND	ND	ND	ND	ND	ND	ND	ND
	08/17/16				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	NT	ND
	11/16/16				ND	1.2	ND	ND	ND	1.3	ND	ND	ND	ND	ND	ND	ND	ND
	05/30/17				ND	1.1	ND	ND	ND	ND	ND	ND	1.3	ND	ND	ND	ND	ND
	11/21/17				ND	1.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	05/31/18				ND	1.6	ND	ND	ND	1.6	ND	ND	ND	ND	ND	ND	ND	ND
	10/31/18				ND	1.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	05/28/19				ND	1.8	ND	ND	ND	3.5	ND	Inaccessible	ND	ND	ND	ND	ND	ND
	10/15/19				ND	1.7	ND	ND	ND	1.4	ND	ND	ND	ND	ND	ND	ND	ND
	06/03/20				ND	1.44	ND	ND	ND	ND	ND	Inaccessible	ND	ND	ND	ND	ND	ND
	10/07/20				ND	1.63	ND	ND	ND	ND	Inaccessible	Inaccessible	ND	ND	ND	ND	ND	ND
	05/03/21				ND	1.57	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	11/09/21				ND	2.1	ND	ND	ND	ND	Inaccessible	Inaccessible	ND	ND	ND	ND	ND	ND
	01/13/22				NT	NT	NT	NT	NT	NT	ND	ND	NT	NT	NT	NT	NT	NT
	05/17/22				ND	1.88	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/17/22				ND	1.75	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	05/22/23**				ND	2.63	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/5/2023***				ND	2.29	ND	ND	ND	ND	NT	NT	ND	ND	ND	ND	ND	ND
	05/20/24				ND	2.94	ND	ND	ND	ND	NT	NT	ND	ND	ND	ND	ND	ND
	10/02/24				ND	1.38	ND	ND	ND	1.15	Inaccessible	NT	ND	ND	ND	ND	ND	ND
	05/12/25				ND	1.42	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	04/24/08	1	na	µg/L	ND	ND	ND	ND	ND	NT	NT	NT	NT	NT	NT	NA	NT	ND
	05/22/08		(10)		ND	ND	1.1	1.5	1.6	NT	NT	NT	NT	NT	NT	NA	NT	ND
	06/18/08				ND	ND	ND	ND	ND	NT	NT	NT	NT	NT	NT	NA	NT	ND
	08/13/08				ND	ND	ND	ND	ND	NT	NT	NT	NT	NT	NT	NA	NT	ND
	09/24/08				ND	ND	ND	ND	ND	NT	NT	NT	NT	NT	NT	NA	NT	ND

Table 7 - 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-19A	MW-21A	MW-23A	MW-34A	MW-36A	MW-37A	MW-38A	MW-39A	MW-40A	GW Holding Pond	Blank
Bromomethane	04/27/09	1	na	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	NT	NT	NT	NA	NT	ND
	10/26/09		(10)		ND	ND (ND)	ND	ND (ND)	ND	ND	ND	ND	ND	ND	NT	NA	NT	ND
	11/23/09				NT	NT	NT	NT	NT	NT	NT	NT	ND	ND	NT	NA	NT	NT
	12/17/09				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	NA	NT	ND
	04/13/10				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	NA	NT	ND
	05/18/10				NT	NT	NT	NT	NT	ND	ND	ND	ND	ND	NT	NA	NT	ND
	06/21/10				NT	NT	NT	NT	NT	ND	ND	ND	ND	ND	NT	NA	NT	ND
	07/09/10				NT	ND	NT	ND	NT	ND	NT	NT	ND	ND	NT	NA	NT	ND
	08/18/10				NT	NT	NT	NT	NT	ND	ND	ND	ND	ND	NT	NA	NT	ND
	10/18/10				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	NA	NT	ND
	05/10/11				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	NA	NT	ND
	10/19/11				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	NA	NT	ND
	04/24/12				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	NA	NT	ND
	08/06/12				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	NA	NT	NT
	10/25/12*				ND	ND	ND	ND	ND	dry	ND	ND	ND	ND	ND	NA	ND*	NT
	05/07/13				Dry	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
	11/11/13				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
	05/13/14				Dry	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
	11/12/14				ND	ND	ND	ND	ND	ND	ND	ND	frozen	frozen	ND	ND	ND	ND
	03/18/15				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	NT	ND
	05/27/15				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	08/20/15				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	NT	ND
	11/18/15				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	04/25/16				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	NT	ND
	06/16/16				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	08/17/16				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	NT	ND
	11/16/16				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	05/30/17				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	11/21/17				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	05/31/18				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/31/18				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	05/28/19				ND	ND	ND	ND	ND	ND	ND	Inaccessible	ND	ND	ND	ND	ND	ND
	10/15/19				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	06/03/20	*2.5*			ND	ND	ND	ND	ND	ND	ND	Inaccessible	ND	ND	ND	ND	ND	ND
	10/07/20				ND	ND	ND	ND	ND	ND	Inaccessible	Inaccessible	ND	ND	ND	ND	ND	ND
	05/03/21				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	11/09/21				ND	ND	ND	ND	ND	ND	Inaccessible	Inaccessible	ND	ND	ND	ND	ND	ND
	01/13/22				NT	NT	NT	NT	NT	NT	ND	ND	NT	NT	NT	NT	NT	NT
	05/17/22				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/17/22				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	05/22/23**				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/5/2023***				ND	ND	ND	ND	ND	ND	NT	NT	ND	ND	ND	ND	ND	ND
	05/20/24				ND	ND	ND	ND	ND	ND	NT	NT	ND	ND	ND	ND	ND	ND
	10/02/24				ND	ND	ND	ND	ND	ND	Inaccessible	NT	ND	ND	ND	ND	ND	ND
	05/12/25				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	04/24/08	1	na	µg/L	ND	22	ND	ND	ND	NT	NT	NT	NT	NT	NT	NA	NT	ND
	05/22/08		(2,800)		ND	29 (25)	ND	3.6	ND	NT	NT	NT	NT	NT	NT	NA	NT	ND
	06/18/08				ND	23	ND	4.5	ND	NT	NT	NT	NT	NT	NT	NA	NT	ND
	08/13/08				ND	47	ND	5	ND	NT	NT	NT	NT	NT	NT	NA	NT	ND
	09/24/08				ND	ND	ND	ND	ND	NT	NT	NT	NT	NT	NT	NA	NT	ND
	04/27/09				ND	26	ND	3.1	ND	ND	ND	ND	NT	NT	NT	NA	NT	ND
	10/26/09				ND	34 (61)	ND	2.9 (3.5)	ND	ND	ND	ND	ND	ND	NT	NA	NT	ND
	11/23/09				NT	NT	ND	NT	NT	NT	NT	NT	9.8	ND	NT	NA	NT	NT
	12/17/09				ND	24 (24)	ND	(1.9) 1.6	ND	ND	ND	ND	2.9	ND	NT	NA	NT	ND
	04/13/10				ND	62	ND	4.0	ND	ND	ND	ND	7.9	5.9	NT	NA	NT	ND
	05/18/10				NT	NT	ND	NT	NT	ND	ND	ND	3.6	1.5	NT	NA	NT	ND
	06/21/10				NT	NT	ND	NT	NT	ND	ND	ND	5.2	ND	NT	NA	NT	ND
	07/09/10				NT	24	ND	2.2	NT	ND	NT	NT	4.3	ND	NT	NA	NT	ND
	08/18/10				NT	NT	ND	NT	NT	ND	ND	ND	4	ND	NT	NA	NT	ND
	10/18/10				ND	20	ND	1.4	ND	ND	ND	ND	3.6	ND	NT	NA	NT	ND
	05/10/11				ND	21	ND	1.4	ND	ND	ND	ND	4.4	ND	NT	NA	NT	ND
	10/19/11				ND	18	ND	ND	ND	ND	ND	ND	4.1	ND	NT	NA	NT	ND
	04/24/12				ND	38	ND	1.1	ND	ND	ND	ND	6.4	1.0	NT	NA	NT	ND
	08/06/12				NT	NT	ND	NT	NT	NT	NT	NT	NT	NT	ND	NA	NT	NT
	10/25/12*				ND	23	ND	ND	ND	dry	ND	ND	4.2	ND	ND	NA	1.2*	NT
	05/07/13				Dry	21	ND	1.9	ND	ND	ND	ND	5.1	2.9	ND	NA	ND	ND
	11/11/13				ND	21	ND	ND	ND	ND	ND	ND	5.3	ND	ND	NA	ND	ND
	05/13/14				Dry	11	ND	ND	ND	ND	ND	ND	3.6	ND	ND	NA	ND	ND
	11/12/14				ND	29	ND	ND	ND	ND	ND	ND	frozen	frozen	ND	ND	ND	ND
	03/18/15				NT	NT	ND	NT	NT	NT	NT	NT	NT	NT	NT	ND	NT	ND
	05/27/15				ND	27	ND	ND	ND	ND	ND	ND	5.6	ND	ND	ND	ND	ND
	08/20/15				NT	NT	ND	NT	NT	NT	NT	NT	NT	NT	NT	ND	NT	ND
	11/18/15				ND	33	ND	ND	ND	ND	ND	ND	5	1.1	ND	ND	ND	ND
	04/25/16				NT	NT	ND	NT	NT	NT	NT	NT	NT	NT	NT	ND	NT	ND
	06/16/16				ND	32	ND	ND	ND	ND	ND	ND	6.4	ND	ND	ND	ND	ND
	08/17/16				NT	NT	ND	NT	NT	NT	NT	NT	NT	NT	NT	ND	NT	ND
	11/16/16				ND	35	ND	ND	ND	ND	ND	ND	5.3	ND	ND	ND	ND	ND
	05/30/17				ND	25	ND	ND	ND	ND	ND	ND	5.1	ND	ND	ND	ND	ND
	11/21/17				ND	27	ND	ND	ND	ND	ND	ND	2.7	ND	ND	ND	ND	ND

Table 7 - 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-19A	MW-21A	MW-23A	MW-34A	MW-36A	MW-37A	MW-38A	MW-39A	MW-40A	GW Holding Pond	Blank
Chloroethane	05/31/18	1	na	µg/L	ND	21	ND	ND	ND	ND	ND	ND	4.4	ND	ND	ND	ND	ND
	10/31/18		(2,800)		ND	28	ND	ND	ND	ND	ND	ND	5.2	ND	ND	ND	ND	ND
	05/28/19				ND	24	ND	ND	ND	ND	ND	Inaccessible	ND	ND	ND	ND	ND	ND
	10/15/19				ND	29	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	06/03/20	*2.5*			ND	17.5	ND	ND	ND	ND	ND	Inaccessible	3	ND	ND	ND	ND	ND
	10/07/20				ND	18.3	ND	ND	ND	ND	Inaccessible	Inaccessible	4.12	ND	ND	ND	ND	ND
	05/03/21				ND	14.2	ND	ND	ND	ND	ND	ND	5.32	ND	ND	ND	ND	ND
	11/09/21				ND	18.8	ND	ND	ND	ND	Inaccessible	Inaccessible	7.7	ND	ND	ND	ND	ND
	01/13/22				NT	NT	NT	NT	NT	NT	ND	ND	NT	NT	NT	NT	NT	NT
	05/17/22				ND	18.4	ND	ND	ND	ND	ND	ND	5.62	ND	ND	ND	ND	ND
	10/17/22				ND	23.9	ND	ND	ND	ND	ND	ND	7.07	ND	ND	ND	ND	ND
	05/22/23**				ND	11.8	ND	ND	ND	ND	ND	ND	4.51	ND	ND	ND	ND	ND
	10/5/2023***				ND	13.8	ND	ND	ND	ND	NT	NT	4.02	ND	ND	ND	ND	ND
	05/20/24				ND	9.2	ND	ND	ND	ND	NT	NT	3.18	ND	ND	ND	ND	ND
	10/02/24				ND	8.82	ND	ND	ND	ND	Inaccessible	NT	2.63	ND	ND	ND	ND	ND
	05/12/25				ND	13.7	ND	ND	ND	ND	ND	ND	3.41	ND	ND	ND	ND	ND
Iodomethane	04/24/08	1	na	µg/L	ND	ND	ND	ND	ND	NT	NT	NT	NT	NT	NT	NA	NT	ND
	05/22/08				ND	ND	ND	ND	ND	NT	NT	NT	NT	NT	NT	NA	NT	ND
	06/18/08				ND	ND	ND	ND	ND	NT	NT	NT	NT	NT	NT	NA	NT	ND
	08/13/08				ND	ND	ND	ND	ND	NT	NT	NT	NT	NT	NT	NA	NT	ND
	09/24/08				ND	ND	ND	ND	ND	NT	NT	NT	NT	NT	NT	NA	NT	ND
	04/27/09				ND	ND	ND	ND	ND	ND	ND	ND	NT	NT	NT	NA	NT	ND
	10/26/09				ND	ND (ND)	ND	ND (ND)	ND	ND	ND	ND	ND	ND	NT	NA	NT	ND
	11/23/09				NT	NT	ND	NT	NT	NT	NT	NT	ND	ND	NT	NA	NT	NT
	12/17/09				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	NA	NT	ND
	04/13/10				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	NA	NT	ND
	05/18/10				NT	NT	ND	NT	NT	ND	ND	ND	ND	ND	NT	NA	NT	ND
	06/21/10				NT	NT	ND	NT	NT	ND	ND	ND	ND	ND	NT	NA	NT	ND
	07/09/10				NT	ND	ND	ND	NT	ND	NT	NT	ND	ND	NT	NA	NT	ND
	08/18/10				NT	NT	ND	NT	NT	ND	ND	ND	ND	ND	NT	NA	NT	ND
	10/18/10				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	NA	NT	ND
	05/10/11				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	NA	NT	ND
	10/19/11				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	NA	NT	ND
	04/24/12				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	NA	NT	ND
	08/06/12				NT	NT	ND	NT	NT	NT	NT	NT	NT	NT	ND	NA	NT	NT
	10/25/12*				ND	ND	ND	ND	ND	dry	ND	ND	ND	ND	ND	NA	ND*	NT
	05/07/13				Dry	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
	11/11/13				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
	05/13/14				Dry	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
	11/12/14				ND	ND	ND	ND	ND	ND	ND	ND	frozen	frozen	ND	ND	ND	ND
	03/18/15				NT	NT	ND	NT	NT	NT	NT	NT	NT	NT	NT	ND	NT	ND
	05/27/15				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	08/20/15				NT	NT	ND	NT	NT	NT	NT	NT	NT	NT	NT	ND	NT	ND
	11/18/15				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	04/25/16				NT	NT	ND	NT	NT	NT	NT	NT	NT	NT	NT	ND	NT	ND
	06/16/16				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	08/17/16				NT	NT	ND	NT	NT	NT	NT	NT	NT	NT	NT	ND	NT	ND
	11/16/16				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	05/30/17				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	11/21/17				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	05/31/18				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/31/18				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	05/28/19				ND	ND	ND	ND	ND	ND	ND	Inaccessible	ND	ND	ND	ND	ND	ND
	10/15/19				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	06/03/20	*10*			ND	ND	ND	ND	ND	ND	ND	Inaccessible	ND	ND	ND	ND	ND	ND
	10/07/20				ND	ND	ND	ND	ND	ND	Inaccessible	Inaccessible	ND	ND	ND	ND	ND	ND
	05/03/21				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	11/09/21				ND	ND	ND	ND	ND	ND	Inaccessible	Inaccessible	ND	ND	ND	ND	ND	ND
	01/13/22				NT	NT	NT	NT	NT	NT	ND	ND	NT	NT	NT	NT	NT	NT
	05/17/22				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/17/22				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	05/22/23**				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/5/2023***				ND	ND	ND	ND	ND	ND	NT	NT	ND	ND	ND	ND	ND	ND
	05/20/24				ND	ND	ND	ND	ND	ND	NT	NT	ND	ND	ND	ND	ND	ND
	10/02/24				ND	ND	ND	ND	ND	ND	Inaccessible	NT	ND	ND	ND	ND	ND	ND
	05/12/25				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	04/24/08	1	5	µg/L	ND	2.4	ND	ND	ND	NT	NT	NT	NT	NT	NT	NA	NT	ND
	05/22/08		(5)		ND	ND	ND	ND	ND	NT	NT	NT	NT	NT	NT	NA	NT	ND
	06/18/08				ND	ND	ND	ND	ND	NT	NT	NT	NT	NT	NT	NA	NT	ND
	08/13/08				ND	ND	ND	ND	ND	NT	NT	NT	NT	NT	NT	NA	NT	ND
	09/24/08				ND	ND	ND	ND	ND	NT	NT	NT	NT	NT	NT	NA	NT	ND
	04/27/09				ND	ND	ND	ND	ND	ND	ND	ND	NT	NT	NT	NA	NT	ND
	10/26/09				ND	1.5 (ND)	ND	ND (ND)	ND	ND	ND	ND	ND	ND	NT	NA	NT	ND
	11/23/09				NT	NT	NT	NT	NT	NT	NT	NT	ND	ND	NT	NA	NT	NT
	12/17/09				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	NA	NT	ND
	04/13/10				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	NA	NT	ND
	05/18/10				NT	NT	NT	NT	NT	ND	ND	ND	ND	ND	NT	NA	NT	ND
	06/21/10				NT	NT	NT	NT	NT	ND	ND	ND	ND	ND	NT	NA	NT	ND

Table 7 - 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-19A	MW-21A	MW-23A	MW-34A	MW-36A	MW-37A	MW-38A	MW-39A	MW-40A	GW Holding Pond	Blank
Methylene chloride	07/09/10	1	5	µg/L	NT	ND	NT	ND	NT	ND	NT	NT	ND	ND	NT	NA	NT	ND
	08/18/10		(5)		NT	NT	NT	NT	NT	ND	ND	ND	ND	ND	NT	NA	NT	ND
	10/18/10				ND	2.3	ND	ND	ND	ND	ND	ND	ND	ND	NT	NA	NT	ND
	05/10/11				ND	1.2	ND	ND	ND	ND	ND	ND	ND	ND	NT	NA	NT	ND
	10/19/11				ND	1.1	ND	ND	ND	ND	ND	ND	ND	ND	NT	NA	NT	ND
	04/24/12				ND	2.2	ND	ND	ND	ND	ND	ND	ND	ND	NT	NA	NT	ND
	08/06/12				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	NA	NT	NT
	10/25/12*				ND	2.1	ND	ND	ND	dry	ND	ND	ND	ND	ND	NA	ND*	NT
	05/07/13				Dry	2.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
	11/11/13				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
	05/13/14				Dry	1.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
	11/12/14				ND	1.5	ND	ND	ND	ND	ND	ND	frozen	frozen	ND	ND	ND	ND
	03/18/15				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	NT	ND
	05/27/15				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	08/20/15				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	NT	ND
	11/18/15				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	04/25/16				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	NT	ND
	06/16/16				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	08/17/16				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	NT	ND
	11/16/16				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	05/30/17				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	11/21/17				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	05/31/18				ND	ND	ND	ND	ND	ND	ND	ND	6.9	ND	ND	ND	ND	ND
	09/04/18				NT	NT	NT	NT	NT	NT	NT	NT	ND	NT	NT	NT	NT	NT
	10/31/18				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	05/28/19				ND	ND	ND	ND	ND	ND	ND	Inaccessible	ND	ND	ND	ND	ND	ND
	10/15/19				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	06/03/20				ND	ND	ND	ND	ND	ND	ND	Inaccessible	ND	ND	ND	ND	ND	ND
	10/07/20				ND	ND	ND	ND	ND	ND	Inaccessible	Inaccessible	ND	ND	ND	ND	ND	ND
	05/03/21				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	11/09/21				ND	ND	ND	ND	ND	ND	Inaccessible	Inaccessible	ND	ND	ND	ND	ND	ND
	01/13/22				NT	NT	NT	NT	NT	NT	ND	ND	NT	NT	NT	NT	NT	NT
	05/17/22				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/17/22				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	05/22/23**				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/5/2023***				ND	ND	ND	ND	ND	ND	NT	NT	ND	ND	ND	ND	ND	ND
	05/20/24				ND	ND	ND	ND	ND	ND	NT	NT	ND	ND	ND	ND	ND	ND
	10/02/24				ND	ND	ND	ND	ND	ND	Inaccessible	NT	ND	ND	ND	ND	ND	ND
	05/12/25				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	04/24/08	1	5	µg/L	ND	ND	ND	ND	ND	NT	NT	NT	NT	NT	NT	NA	NT	ND
	05/22/08		(5)		ND	1.2	ND	ND	ND	NT	NT	NT	NT	NT	NT	NA	NT	ND
	06/18/08				ND	ND	ND	ND	ND	NT	NT	NT	NT	NT	NT	NA	NT	ND
	08/13/08				ND	ND	ND	ND	ND	NT	NT	NT	NT	NT	NT	NA	NT	ND
	09/24/08				ND	ND	ND	ND	ND	NT	NT	NT	NT	NT	NT	NA	NT	ND
	04/27/09				ND	ND	ND	ND	ND	9.8	ND	ND	NT	NT	NT	NA	NT	ND
	10/26/09				ND	ND (ND)	ND	ND (ND)	ND	8.2	ND	ND	ND	ND	NT	NA	NT	ND
	11/23/09				NT	NT	NT	NT	NT	NT	NT	NT	ND	ND	NT	NA	NT	NT
	12/17/09				ND	ND	ND	ND	ND	11	ND	ND	ND	ND	NT	NA	NT	ND
	04/13/10				ND	ND	ND	ND	ND	7.6	ND	ND	ND	ND	NT	NA	NT	ND
	05/18/10				NT	NT	NT	NT	NT	7	ND	ND	ND	ND	NT	NA	NT	ND
	06/21/10				NT	NT	NT	NT	NT	10	ND	ND	ND	ND	NT	NA	NT	ND
	07/09/10				NT	ND	NT	ND	NT	10	NT	NT	ND	ND	NT	NA	NT	ND
	08/18/10				NT	NT	NT	NT	NT	8.8	ND	ND	ND	ND	NT	NA	NT	ND
	10/18/10				ND	ND	ND	ND	ND	12	ND	ND	ND	ND	NT	NA	NT	ND
	05/10/11				ND	ND	ND	ND	ND	4.5	ND	ND	ND	ND	NT	NA	NT	ND
	10/19/11				ND	ND	ND	ND	ND	18	ND	ND	ND	ND	NT	NA	NT	ND
	04/24/12				ND	ND	ND	ND	ND	14	ND	ND	ND	ND	NT	NA	NT	ND
	08/06/12				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	NA	NT	NT
	10/25/12*				ND	ND	ND	ND	ND	dry	ND	ND	ND	ND	ND	NA	ND*	NT
	05/07/13				Dry	ND	ND	ND	ND	10	ND	ND	ND	ND	ND	NA	ND	ND
	11/11/13				ND	ND	ND	ND	ND	13	ND	ND	ND	ND	ND	NA	ND	ND
	05/13/14				Dry	ND	ND	ND	ND	10	ND	ND	ND	ND	ND	NA	ND	ND
	11/12/14				ND	ND	ND	ND	ND	13	ND	ND	frozen	frozen	ND	ND	ND	ND
	03/18/15				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	NT	ND
	05/27/15				ND	ND	ND	ND	ND	13	ND	ND	ND	ND	ND	ND	ND	ND
	08/20/15				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	NT	ND
	11/18/15				ND	ND	ND	ND	ND	15	ND	ND	ND	ND	ND	ND	ND	ND
	04/25/16				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	NT	ND
	06/16/16				ND	ND	ND	ND	ND	8.1	ND	ND	ND	ND	ND	ND	ND	ND
	08/17/16				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	NT	ND
	11/16/16				ND	ND	ND	ND	ND	10	ND	ND	ND	ND	ND	ND	ND	ND
	05/30/17				ND	ND	ND	ND	ND	6.7	ND	ND	ND	ND	ND	ND	ND	ND
	11/21/17				ND	ND	ND	ND	ND	8.8	ND	ND	ND	ND	ND	ND	ND	ND
	05/31/18				ND	ND	ND	ND	ND	3.7	ND	ND	ND	ND	ND	ND	ND	ND
	10/31/18				ND	ND	ND	ND	ND	6.5	ND	ND	ND	ND	ND	ND	ND	ND
	05/28/19				ND	ND	ND	ND	ND	3.4	ND	Inaccessible	ND	ND	ND	ND	ND	ND
	10/15/19				ND	ND	ND	ND	ND	5.3	ND	ND	ND	ND	ND	ND	ND	ND
	06/03/20				ND	ND	ND	ND	ND	4.38	ND	Inaccessible	ND	ND	ND	ND	ND	ND
	10/07/20				ND	ND	ND	ND	ND	5.06	Inaccessible	Inaccessible	ND	ND	ND	ND	ND	ND

Table 7 - 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-19A	MW-21A	MW-23A	MW-34A	MW-36A	MW-37A	MW-38A	MW-39A	MW-40A	GW Holding Pond	Blank
Trichloroethene	05/03/21	1	5	µg/L	ND	ND	ND	ND	ND	4.49	ND	ND	ND	ND	ND	ND	ND	ND
	11/09/21		(5)		ND	ND	ND	ND	ND	6.41	Inaccessible	Inaccessible	ND	ND	ND	ND	ND	ND
	01/13/22				NT	NT	NT	NT	NT	NT	ND	ND	NT	NT	NT	NT	NT	NT
	05/17/22				ND	ND	ND	ND	ND	6.19	ND	ND	ND	ND	ND	ND	ND	ND
	10/17/22				ND	ND	ND	ND	ND	7.01	ND	ND	ND	ND	ND	ND	ND	ND
	05/22/23**				ND	ND	ND	ND	ND	3.88	ND	ND	ND	ND	ND	ND	ND	ND
	10/5/2023***				ND	ND	ND	ND	ND	5.05	NT	NT	ND	ND	ND	ND	ND	ND
	05/20/24				ND	ND	ND	ND	ND	2.85	NT	NT	ND	ND	ND	ND	ND	ND
	10/02/24				ND	ND	ND	ND	ND	4.07	Inaccessible	NT	ND	ND	ND	ND	ND	ND
	05/12/25				ND	ND	ND	ND	ND	3.02	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	04/24/08	1	2	µg/L	ND	62	ND	ND	ND	NT	NT	NT	NT	NT	NT	NA	NT	ND
	05/22/08		(2)		ND	72 (72)	ND	ND	ND	NT	NT	NT	NT	NT	NT	NA	NT	ND
	06/18/08				ND	72	ND	2.3	ND	NT	NT	NT	NT	NT	NT	NA	NT	ND
	08/13/08				ND	55	ND	1.2	ND	NT	NT	NT	NT	NT	NT	NA	NT	ND
	09/24/08				ND	52	ND	ND	ND	NT	NT	NT	NT	NT	NT	NA	NT	ND
	04/27/09				ND	68	ND	ND	ND	ND	ND	ND	NT	NT	NT	NA	NT	ND
	10/26/09				ND	92 (67)	ND	ND (ND)	ND	ND	ND	ND	ND	ND	NT	NA	NT	ND
	11/23/09				NT	NT	NT	NT	NT	NT	NT	NT	ND	ND	NT	NA	NT	NT
	12/17/09				ND	39 (29)	ND	ND	ND	ND	ND	ND	ND	ND	NT	NA	NT	ND
	04/13/10				ND	79	ND	ND	ND	ND	ND	ND	1.8	2.3	NT	NA	NT	ND
	05/18/10				NT	NT	NT	NT	NT	ND	ND	ND	1	1.4	NT	NA	NT	ND
	06/21/10				NT	NT	NT	NT	NT	ND	ND	ND	ND	ND	NT	NA	NT	ND
	07/09/10				NT	49	NT	ND	NT	ND	NT	NT	ND	ND	NT	NA	NT	ND
	08/18/10				NT	NT	NT	NT	NT	ND	ND	ND	ND	ND	NT	NA	NT	ND
	10/18/10				ND	40	ND	ND	ND	ND	ND	ND	ND	ND	NT	NA	NT	ND
	05/10/11				ND	41	ND	ND	ND	ND	ND	ND	2.5	ND	NT	NA	NT	ND
	10/19/11				ND	29	ND	ND	ND	ND	ND	ND	ND	ND	NT	NA	NT	ND
	04/24/12				ND	56	ND	ND	ND	ND	ND	ND	2.6	ND	NT	NA	NT	ND
	08/06/12				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	NA	NT	NT
	10/25/12*				ND	81	ND	ND	ND	dry	ND	ND	ND	ND	ND	NA	ND*	NT
	05/07/13				Dry	68	ND	ND	ND	ND	ND	ND	ND	1.8	ND	NA	ND	ND
	11/11/13				ND	43	ND	ND	ND	ND	ND	ND	ND	ND	1.1	NA	ND	ND
	12/12/13				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	NA	NT	ND
	05/13/14				Dry	73	ND	ND	ND	ND	ND	ND	1.3	ND	1	NA	ND	ND
	11/12/14				ND	19	ND	ND	ND	ND	ND	ND	frozen	frozen	ND	ND	ND	ND
	03/18/15				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	NT	ND
	05/27/15				ND	33	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	08/20/15				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	NT	ND
	11/18/15				ND	30	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	04/25/16				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	NT	ND
	06/16/16				ND	34	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	08/17/16				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	NT	ND
	11/16/16				ND	56	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	05/30/17				ND	49	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	11/21/17				ND	52	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	05/31/18				ND	44	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/31/18				ND	34	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	05/28/19				ND	36	ND	ND	ND	ND	ND	Inaccessible	ND	ND	ND	ND	ND	ND
	10/15/19				ND	28	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	06/03/20				ND	36	ND	ND	ND	ND	ND	Inaccessible	ND	ND	ND	ND	ND	ND
	10/07/20				ND	24.3	ND	ND	ND	ND	Inaccessible	Inaccessible	ND	ND	ND	ND	ND	ND
	05/03/21				ND	20.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	11/09/21				ND	29.4	ND	ND	ND	ND	Inaccessible	Inaccessible	ND	ND	ND	ND	ND	ND
	01/13/22				NT	NT	NT	NT	NT	NT	ND	ND	NT	NT	NT	NT	NT	NT
	05/17/22				ND	18.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/17/22				ND	34.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	05/22/23**				ND	24.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/5/2023***				ND	22.8	ND	ND	ND	ND	NT	NT	ND	ND	ND	ND	ND	ND
	05/20/24				ND	9.67	ND	ND	ND	ND	NT	NT	ND	ND	ND	ND	ND	ND
	10/02/24				ND	16.4	ND	ND	ND	ND	Inaccessible	NT	ND	ND	ND	ND	ND	ND
	05/12/25				ND	25.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	04/24/08	1	70	µg/L	ND	170	ND	ND	ND	NT	NT	NT	NT	NT	NT	NA	NT	ND
	05/22/08		(70)		ND	190 (200)	ND	1.2	ND	NT	NT	NT	NT	NT	NT	NA	NT	ND
	06/18/08				ND	210	ND	3.6	ND	NT	NT	NT	NT	NT	NT	NA	NT	ND
	08/13/08				ND	190	ND	2.5	ND	NT	NT	NT	NT	NT	NT	NA	NT	ND
	09/24/08				ND	190	ND	ND	ND	NT	NT	NT	NT	NT	NT	NA	NT	ND
	04/27/09				ND	180	ND	ND	ND	3.6	ND	ND	NT	NT	NT	NA	NT	ND
	10/26/09				ND	120 (150)	ND	ND (ND)	ND	4.5	ND	ND	ND	ND	NT	NA	NT	ND
	11/23/09				NT	NT	NT	NT	NT	NT	NT	NT	ND	ND	NT	NA	NT	NT
	12/17/09				ND	170 (160)	ND	ND	ND	3.9	ND	ND	ND	ND	NT	NA	NT	ND
	04/13/10				ND	130	ND	ND	ND	2.9	ND	ND	ND	2.8	NT	NA	NT	ND
	05/18/10				NT	NT	NT	NT	NT	2.6	ND	ND	ND	3.7	NT	NA	NT	ND
	06/21/10				NT	NT	NT	NT	NT	4.1	ND	ND	ND	2.2	NT	NA	NT	ND
	07/09/10				NT	180	NT	1.2	NT	4.5	NT	NT	ND	2.1	NT	NA	NT	ND
	08/18/10				NT	NT	NT	NT	NT	3.6	ND	ND	ND	1.5	NT	NA	NT	ND
	10/18/10				ND	160	ND	ND	ND	5.0	ND	ND	ND	ND	NT	NA	NT	ND
	05/10/11				ND	110	ND	ND	ND	1.5	ND	ND	ND	3	NT	NA	NT	ND
	10/19/11				ND	150	ND	ND	ND	9	ND	ND	ND	ND	NT	NA	NT	ND

Table 7 - 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-19A	MW-21A	MW-23A	MW-34A	MW-36A	MW-37A	MW-38A	MW-39A	MW-40A	GW Holding Pond	Blank
cis-1,2-Dichloroethene	04/24/12	1	70	µg/L	ND	170	ND	ND	ND	7.8	ND	ND	ND	ND	NT	NA	NT	ND
	08/06/12		(70)		NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	NA	NT	NT
	10/25/12*				ND	120	ND	ND	ND	dry	ND	ND	ND	ND	ND	NA	2.6*	NT
	05/07/13				Dry	130	ND	ND	ND	4.2	ND	ND	ND	2.8	ND	NA	ND	ND
	11/11/13				ND	12	ND	ND	ND	4.8	ND	ND	ND	ND	ND	NA	ND	ND
	05/13/14				Dry	44	ND	ND	ND	4.8	ND	ND	ND	ND	ND	NA	ND	ND
	11/12/14				ND	27	ND	ND	ND	4.8	ND	ND	frozen	frozen	ND	ND	ND	ND
	03/18/15				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	NT	ND
	05/27/15				ND	55	ND	ND	ND	5.1	ND	ND	ND	ND	ND	ND	ND	ND
	08/20/15				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	NT	ND
	11/18/15				ND	54	ND	ND	ND	4.8	ND	ND	ND	ND	ND	ND	ND	ND
	04/25/16				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	NT	ND
	06/16/16				ND	16	ND	ND	ND	1.9	ND	ND	ND	ND	ND	ND	ND	ND
	08/17/16				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	NT	ND
	11/16/16				ND	19	ND	ND	ND	3.2	ND	ND	ND	ND	ND	ND	1.9	ND
	05/30/17				ND	12	ND	ND	ND	2.8	ND	ND	ND	ND	ND	ND	ND	ND
	11/21/17				ND	36	ND	ND	ND	3.7	ND	ND	ND	ND	ND	ND	1	ND
	04/12/18				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	NT
	05/31/18				ND	35	ND	1	ND	2.3	ND	ND	ND	ND	ND	ND	ND	ND
	10/31/18				ND	42	ND	ND	ND	3.4	ND	ND	ND	ND	ND	ND	ND	ND
	05/28/19				ND	18	ND	ND	ND	2	ND	Inaccessible	ND	ND	ND	ND	ND	ND
	10/15/19				ND	24	ND	ND	ND	3.3	ND	ND	ND	ND	ND	ND	1.6	ND
	06/03/20				ND	23.2	ND	ND	ND	2.64	ND	Inaccessible	ND	ND	ND	ND	1.05	ND
	10/07/20				ND	28.3	ND	ND	ND	3.93	Inaccessible	Inaccessible	ND	ND	ND	ND	2.96	ND
	05/03/21				ND	8.42	ND	ND	ND	3.15	ND	ND	ND	ND	ND	ND	ND	ND
	11/09/21				ND	19.8	ND	ND	ND	3.96	Inaccessible	Inaccessible	ND	1.05	ND	ND	2.75	ND
	01/13/22				NT	NT	NT	NT	NT	NT	ND	ND	NT	NT	NT	NT	NT	NT
	05/17/22				ND	24.9	ND	ND	ND	3.18	ND	ND	ND	ND	ND	ND	ND	ND
	10/17/22				ND	23.6	ND	ND	ND	4.15	ND	ND	ND	ND	ND	ND	ND	ND
	05/22/23**				ND	16.2	ND	ND	ND	2.06	ND	ND	ND	ND	ND	ND	ND	ND
	10/5/2023***				ND	38	ND	ND	ND	2.63	NT	NT	ND	ND	ND	ND	2.66	ND
	05/20/24				ND	13.9	ND	ND	ND	1.16	NT	NT	ND	ND	ND	ND	ND	ND
	10/02/24				ND	22.6	ND	ND	ND	2.1	Inaccessible	NT	ND	ND	ND	ND	ND	ND
	05/12/25				ND	30.2	ND	ND	ND	1.35	ND	ND	ND	1.31	ND	ND	ND	ND
trans-1,2-Dichloroethene	04/24/08	1	100	µg/L	ND	9.7	ND	ND	ND	NT	NT	NT	NT	NT	NT	NA	NT	ND
	05/22/08		(100)		ND	9.4 (9.3)	ND	ND	ND	NT	NT	NT	NT	NT	NT	NA	NT	ND
	06/18/08				ND	8.9	ND	ND	ND	NT	NT	NT	NT	NT	NT	NA	NT	ND
	08/13/08				ND	8	ND	ND	ND	NT	NT	NT	NT	NT	NT	NA	NT	ND
	09/24/08				ND	8.0	ND	ND	ND	NT	NT	NT	NT	NT	NT	NA	NT	ND
	04/27/09				ND	8.8	ND	ND	ND	ND	ND	ND	NT	NT	NT	NA	NT	ND
	10/26/09				ND	8 (8.3)	ND	ND (ND)	ND	ND	ND	ND	ND	ND	NT	NA	NT	ND
	11/23/09				NT	NT	NT	NT	NT	NT	NT	NT	ND	ND	NT	NA	NT	NT
	12/17/09				ND	7.7 (6.8)	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	NA	NT	ND
	04/13/10				ND	7.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	NA	NT	ND
	05/18/10				NT	NT	NT	NT	NT	ND	ND	ND	ND	ND	ND	NT	NA	NT	ND
	06/21/10				NT	NT	NT	NT	NT	ND	ND	ND	ND	ND	ND	NT	NA	NT	ND
	07/09/10				NT	8.8	NT	ND	NT	ND	NT	NT	ND	ND	ND	NT	NA	NT	ND
	08/18/10				NT	NT	NT	NT	NT	ND	ND	ND	ND	ND	ND	NT	NA	NT	ND
	10/18/10				ND	6.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	NA	NT	ND
	05/10/11				ND	7.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	NA	NT	ND
	10/19/11				ND	8.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	NA	NT	ND
	04/24/12				ND	11	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	NA	NT	ND
	08/06/12				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	NA	NT	NT
	10/25/12*				ND	7.2	ND	ND	ND	dry	ND	ND	ND	ND	ND	NA	ND*	NT
	05/07/13				Dry	9	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
	11/11/13				ND	2.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
	05/13/14				Dry	4.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
	11/12/14				ND	7.2	ND	ND	ND	ND	ND	ND	frozen	frozen	ND	ND	ND	ND
	03/18/15				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	NT	ND
	05/27/15				ND	8.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	08/20/15				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	NT	ND
	11/18/15				ND	8.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	04/25/16				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	NT	ND
	06/16/16				ND	5.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	08/17/16				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	NT	ND
	11/16/16				ND	5.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	05/30/17				ND	3.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	11/21/17				ND	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	05/31/18				ND	5.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/31/18				ND	6.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	05/28/19				ND	4.4	ND	ND	ND	ND	ND	Inaccessible	ND	ND	ND	ND	ND	ND
	10/15/19				ND	4.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	06/03/20				ND	4.95	ND	ND	ND	ND	ND	Inaccessible	ND	ND	ND	ND	ND	ND
	10/07/20				ND	4.34	ND	ND	ND	ND	Inaccessible	Inaccessible	ND	ND	ND	ND	ND	ND
	05/03/21				ND	2.86	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	11/09/21				ND	3.78	ND	ND	ND	ND	Inaccessible	Inaccessible	ND	ND	ND	ND	ND	ND
	01/13/22				NT	NT	NT	NT	NT	NT	ND	ND	NT	NT	NT	NT	NT	NT
	05/17/22				ND	4.32	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/17/22				ND	4.39	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Table 7 - 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-19A	MW-21A	MW-23A	MW-34A	MW-36A	MW-37A	MW-38A	MW-39A	MW-40A	GW Holding Pond	Blank
trans-1,2-Dichloroethene	05/22/23**	1	100	µg/L	ND	2.27	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/5/2023***		(100)		ND	4.18	ND	ND	ND	ND	NT	NT	ND	ND	ND	ND	ND	ND
	05/20/24				ND	1.95	ND	ND	ND	ND	NT	NT	ND	ND	ND	ND	ND	ND
	10/02/24				ND	2.57	ND	ND	ND	ND	Inaccessible	NT	ND	ND	ND	ND	ND	ND
	05/12/25				ND	3.88	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	04/13/10	5	na	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	NA	NT	ND
	08/18/10		(6,300)		NT	NT	NT	NT	NT	ND	ND	ND	ND	ND	NT	NA	NT	7.1
	10/18/10				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	NA	NT	ND
	05/10/11				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	NA	NT	ND
	10/19/11				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	NA	NT	ND
	04/24/12				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	NA	NT	ND
	08/06/12				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	NA	NT	NT
	10/25/12				ND	ND	ND	ND	ND	dry	ND	ND	ND	ND	ND	NA	ND*	NT
	05/07/13				Dry	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
	11/11/13				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
	05/13/14				Dry	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
	11/12/14				ND	ND	ND	ND	ND	ND	ND	ND	frozen	frozen	ND	ND	ND	ND
	03/18/15				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	NT	ND
	05/27/15				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	08/20/15				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	NT	ND
	11/18/15				ND	ND	65	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	04/25/16				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	NT	ND
	06/16/16				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	08/17/16				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	NT	ND
	11/16/16				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	05/30/17				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	11/21/17				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	05/31/18				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/31/18				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	05/28/19				ND	ND	ND	ND	ND	71	ND	Inaccessible	ND	ND	ND	ND	ND	ND
	10/15/19				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	06/03/20	*25*			ND	ND	ND	ND	ND	ND	ND	Inaccessible	ND	ND	ND	ND	ND	ND
	10/07/20				ND	ND	ND	ND	ND	ND	Inaccessible	Inaccessible	ND	ND	ND	ND	ND	ND
	05/03/21				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	11/09/21				ND	ND	ND	ND	ND	ND	Inaccessible	Inaccessible	ND	ND	ND	ND	ND	ND
	01/13/22				NT	NT	NT	NT	NT	NT	ND	ND	NT	NT	NT	NT	NT	NT
	05/17/22				ND	85.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/17/22				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	05/22/23**				ND	48.5	92.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/5/2023***				ND	ND	ND	ND	ND	ND	NT	NT	ND	ND	ND	ND	ND	ND
	05/20/24				ND	ND	ND	ND	ND	ND	NT	NT	ND	ND	ND	ND	ND	ND
	10/02/24				ND	ND	ND	ND	ND	ND	Inaccessible	NT	ND	ND	ND	ND	ND	ND
	05/12/25				ND	ND	ND	ND	ND	ND	Inaccessible	NT	ND	ND	ND	ND	ND	ND
2-Butanone	04/13/10	1	na	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	NA	NT	ND
(MEK)	10/18/10		(4,000)		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	NA	NT	ND
	05/10/11				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	NA	NT	ND
	10/19/11				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	NA	NT	ND
	04/24/12				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	NA	NT	ND
	08/06/12				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	NA	NT	NT
	10/25/12*				ND	ND	ND	ND	ND	dry	ND	ND	ND	ND	ND	NA	ND*	NT
	05/07/13				Dry	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
	11/11/13				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
	05/13/14				Dry	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
	11/12/14				ND	ND	ND	ND	ND	ND	ND	ND	frozen	frozen	ND	ND	ND	ND
	03/18/15				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	NT	ND
	05/27/15				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	08/20/15				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	NT	ND
	11/18/15				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	04/25/16				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	NT	ND
	06/16/16				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	08/17/16				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	NT	ND
	11/16/16				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	05/30/17				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	11/21/17				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	05/31/18				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/31/18				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	05/28/19				ND	ND	ND	ND	ND	ND	ND	Inaccessible	ND	ND	ND	ND	ND	ND
	10/15/19				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	06/03/20	*10*			ND	ND	ND	ND	ND	ND	ND	Inaccessible	ND	ND	ND	ND	ND	ND
	10/07/20				ND	ND	ND	ND	ND	ND	Inaccessible	Inaccessible	ND	ND	ND	ND	ND	ND
	05/03/21				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	11/09/21				ND	ND	ND	ND	ND	ND	Inaccessible	Inaccessible	ND	ND	ND	ND	ND	ND
	01/13/22				NT	NT	NT	NT	NT	NT	ND	ND	NT	NT	NT	NT	NT	NT
	05/17/22				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/17/22				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	05/22/23**				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/5/2023***				ND	ND	ND	ND	ND	ND	NT	NT	ND	ND	ND	ND	ND	ND
	05/20/24				ND	ND	ND	ND	ND	ND	NT	NT	ND	ND	ND	ND	ND	ND

Table 7 - 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-19A	MW-21A	MW-23A	MW-34A	MW-36A	MW-37A	MW-38A	MW-39A	MW-40A	GW Holding Pond	Blank
2-Butanone	10/02/24	*10*	na	µg/L	ND	ND	ND	ND	ND	ND	Inaccessible	NT	ND	ND	ND	ND	ND	ND
(MEK)	05/12/25		(4,000)		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	04/13/10	1	1,000	µg/L	ND	2.4	ND	ND	ND	ND	ND	ND	ND	ND	NT	NA	NT	ND
	10/18/10		(1,000)		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	NA	NT	ND
	05/10/11				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	NA	NT	ND
	10/19/11				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	NA	NT	ND
	04/24/12				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	NA	NT	ND
	08/06/12				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	NA	NT	NT
	10/25/12				ND	ND	ND	ND	ND	dry	ND	ND	ND	ND	ND	NA	ND*	NT
	05/07/13				Dry	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
	11/11/13				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
	05/13/14				Dry	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
	11/12/14				ND	1	ND	ND	ND	ND	ND	ND	frozen	frozen	ND	ND	ND	ND
	03/18/15				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	NT	ND
	05/27/15				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	08/20/15				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	NT	ND
	11/18/15				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	04/25/16				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	NT	ND
	06/16/16				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	08/17/16				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	NT	ND
	11/16/16				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	05/30/17				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	11/21/17				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	05/31/18				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/31/18				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	05/28/19				ND	ND	ND	ND	ND	ND	ND	Inaccessible	ND	ND	ND	ND	ND	ND
	10/15/19				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	06/03/20				ND	ND	ND	ND	ND	ND	ND	Inaccessible	ND	ND	ND	ND	ND	ND
	10/07/20				ND	ND	ND	ND	ND	ND	Inaccessible	Inaccessible	ND	ND	ND	ND	ND	ND
	05/03/21				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	11/09/21				ND	ND	ND	ND	ND	ND	Inaccessible	Inaccessible	ND	ND	ND	ND	ND	ND
	01/13/22				NT	NT	NT	NT	NT	NT	ND	ND	NT	NT	NT	NT	NT	NT
	05/17/22				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/17/22				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	05/22/23**				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/5/2023***				ND	ND	ND	ND	ND	ND	NT	NT	ND	ND	ND	ND	ND	ND
	05/20/24				ND	ND	ND	ND	ND	ND	NT	NT	ND	ND	ND	ND	ND	ND
	10/02/24				ND	ND	ND	ND	ND	ND	Inaccessible	NT	ND	ND	ND	ND	ND	ND
	05/12/25				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	04/24/12	1	700	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	NA	NT	ND
	08/06/12		(700)		NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	NA	NT	NT
	10/25/12*				ND	ND	ND	ND	ND	dry	ND	ND	ND	ND	ND	NA	ND*	NT
	05/07/13				Dry	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
	11/11/13				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
	05/13/14				Dry	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
	11/12/14				ND	ND	ND	ND	ND	ND	ND	ND	frozen	frozen	ND	ND	ND	ND
	03/18/15				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	NT	ND
	05/27/15				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	08/20/15				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	NT	ND
	11/18/15				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	04/25/16				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	NT	ND
	06/16/16				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	08/17/16				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	NT	ND
	11/16/16				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	05/30/17				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	11/21/17				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	05/31/18				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/31/18				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	05/28/19				ND	ND	ND	ND	ND	ND	ND	Inaccessible	ND	ND	ND	ND	ND	ND
	10/15/19				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	06/03/20				ND	ND	ND	ND	ND	ND	ND	Inaccessible	ND	ND	ND	ND	ND	ND
	10/07/20				ND	ND	ND	ND	ND	ND	Inaccessible	Inaccessible	ND	ND	ND	ND	ND	ND
	05/03/21				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	11/09/21				ND	ND	ND	ND	ND	ND	Inaccessible	Inaccessible	ND	ND	ND	ND	ND	ND
	01/13/22				NT	NT	NT	NT	NT	NT	ND	ND	NT	NT	NT	NT	NT	NT
	05/17/22				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/17/22				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	05/22/23**				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/5/2023***				ND	ND	ND	ND	ND	ND	NT	NT	ND	ND	ND	ND	ND	ND
	05/20/24				ND	ND	ND	ND	ND	ND	NT	NT	ND	ND	ND	ND	ND	ND
	10/02/24				ND	ND	ND	ND	ND	ND	Inaccessible	NT	ND	ND	ND	ND	ND	ND
	05/12/25				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Table 7 - 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-19A	MW-21A	MW-23A	MW-34A	MW-36A	MW-37A	MW-38A	MW-39A	MW-40A	GW Holding Pond	Blank
Xylenes, Total	04/24/12	3	10,000	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NT	NA	NT	ND
	08/06/12		(10,000)		NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	NA	NT	NT
	10/25/12*				ND	ND	ND	ND	ND	dry	ND	ND	ND	ND	ND	NA	ND*	NT
	05/07/13				Dry	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
	11/11/13				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
	05/13/14				Dry	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND
	11/12/14				ND	ND	ND	ND	ND	ND	ND	ND	frozen	frozen	ND	ND	ND	ND
	03/18/15				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	NT	ND
	05/27/15				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	08/20/15				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	NT	ND
	11/18/15				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	04/25/16				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	NT	ND
	06/16/16				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	08/17/16				NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND	NT	ND
	11/16/16				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	05/30/17				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	11/21/17				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	05/31/18				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/31/18				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	05/28/19				ND	ND	ND	ND	ND	ND	ND	Inaccessible	ND	ND	ND	ND	ND	ND
	10/15/19				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	06/03/20				ND	ND	ND	ND	ND	ND	ND	Inaccessible	ND	ND	ND	ND	ND	ND
	10/07/20				ND	ND	ND	ND	ND	ND	Inaccessible	Inaccessible	ND	ND	ND	ND	ND	ND
	05/03/21				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	11/09/21				ND	ND	ND	ND	ND	ND	Inaccessible	Inaccessible	ND	ND	ND	ND	ND	ND
	01/13/22				NT	NT	NT	NT	NT	NT	ND	ND	NT	NT	NT	NT	NT	NT
	05/17/22				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/17/22				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	05/22/23**				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/5/2023***				ND	ND	ND	ND	ND	ND	NT	NT	ND	ND	ND	ND	ND	ND
	05/20/24				ND	ND	ND	ND	ND	ND	NT	NT	ND	ND	ND	ND	ND	ND
	10/02/24				ND	ND	ND	ND	ND	ND	Inaccessible	NT	ND	ND	ND	ND	ND	ND
	05/12/25				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

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 8 - Holding Pond Analytical Results Summary
Dickinson Sanitary Landfill - Spirit Lake, IA
Permit No. 30-SDP-01-75P

Parameter	Units	Class C SW Limit[1]	IL[2]	Holding Pond 10/25/12*	Holding Pond 5/7/2013	Holding Pond 11/11/2013	Holding Pond 5/13/2014	Holding Pond 11/12/2014	Holding Pond 5/27/2015	Holding Pond 11/18/2015	Holding Pond 6/16/2016	Holding Pond 11/16/2016	Holding Pond 5/30/2017	Holding Pond 11/21/2017	Holding Pond 5/31/2018	Holding Pond 10/31/2018	Holding Pond 5/28/2019	Holding Pond 10/15/2019	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
Metals																													
Antimony	µg/L			ND*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic	mg/L			ND*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0104	ND	ND	0.0104	0.0213	0.014	ND
Barium	mg/L			0.17*	0.13	0.18	0.14	0.21	0.19	0.047	0.041	0.11	0.09	0.15	0.093	0.12	0.14	0.15	0.0717	0.166	0.0576	0.155	0.0895	0.0757	0.0837	0.26	0.0487	0.166	0.116
Beryllium	mg/L	0.004	0.002	ND*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	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	ND	ND	ND	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	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cobalt	mg/L			ND*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	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	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Iron	mg/L			--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.7
Lead	mg/L	0.05	0.025	ND*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Mercury	mg/L			--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	ND
Nickel	mg/L			ND*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.011	0.010	0.0137	ND	ND	0.0168	0.0223	ND	0.0287	0.0259	0.0380	0.0364	0.0221
Selenium	mg/L			ND*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	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	ND	ND	ND	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	ND	ND	ND	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	ND	ND	ND	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	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Major Ions/Anoins																													
Calcium	mg/L			--	114	--	20.3	--	48.1	--	35.9	--	38.9	--	53.3	--	42.3	--	50.1	--	45.8	--	60.4	--	68.8	--	45	--	81.5
Magnesium	mg/L			--	36.1	--	20.3	--	48.1	--	35.9	--	38.9	--	37.3	--	22.3	--	38.2	--	40.0	--	40.2	--	39.9	--	56.1	--	46.2
Magnesium, Dissolved	mg/L			--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	46.8
Potassium	mg/L			--	6.1	--	5.8	--	5.2	--	8.1	--	4.9	--	3.6	--	4.3	--	2.73	--	2.27	--	4.93	--	6.37	--	38.1	--	16.4
Sodium	mg/L			--	11.4	--	6.4	--	8.2	--	27.2	--	12.2	--	18.6	--	13.5	--	29.5	--	18.1	--	27.9	--	33.3	--	114	--	54.5
Alkalinity,Bicarbonate	mg/L			--	37	--	145	--	52.8	--	62.3	--	253	--	172	--	109	--	226	--	212	--	217	--	201	--	386	--	317
Chloride	mg/L	250	125	--	17.8	--	9.3	--	6.1	--	34	--	24.7	--	39.8	--	27.2	--	40.4	--	30.2	--	46.6	--	51.1	--	134**	--	69.3 (73.8)
Sulfate	mg/L			--	89.2	--	87.2	--	475	--	246	--	81.3	--	98.9	--	45.7	--	86.7	--	80.9	--	105	--	106	--	85.4	--	96.5
NPDES Specific (New)				--																									
Total Alkalinity	mg/L			--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	315
Total Dissolved Solids	mg/L			--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	601
Ammonia Nitrogen	mg/L	See IAC		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2.17
Nitrate-Nitrite	mg/L	10	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2.8
Chemical Oxygen Demand	mg/L			--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	54.3
Cyanide	mg/L			--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	ND
pH	SU			--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	7.99
Total Organic Carbon	mg/L			--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	14.2
Oil and Grease	mg/L			--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	ND
Field Measurements																													
eH/ORP (On Site)	mV			--	62.6	98.7	302.6	79.1	39.6	81.3	8.9	134.5	136.6	140.4	186.4	37.6	72.1	93.7	71.2	3.4	57.8	15.6	182.6	101.7	196	167.4	109.8	110.4	79
pH (On Site)	SU			--	7.56	8.31	--	8.15	--	--	--	--	8.24	8.11	8.41	8.74	7.73	7.29	8.58	7.12	8.04	7.41	7.32	7.73	8.08	6.99	8.54	7.35	7.67
Specific Conductance (on site)	µmhos/cm			936	897	1,012	--	1,020	--	--	--	--	455	1,052	410	451	462	1,023	767	930	708	980	747	543	782	1,066	1,109	1,867	0.985
Temperature (on-site)	deg. C			1.0*	16.20	1.00	--	3.00	--	--	--	--	18.20	2.00	26.10	8.70	16.60	8.60	25.71	17.70	18.70	10.7	17.4	6.3	23.9	17.6	22	16.2	9.1
Dissolved Oxygen (on-site)	mg/L			--	9.90	13.30	10.50	11.30	15.40	13.3	12.2	12.5	12.80	14.00	14.60	12.40	8.81	11.60	16.89	12.37	14.80	11.0	10	13.6	13.2	12.8	12.9	12.2	21.81
Turbidity (on-site)	NTU			--	4.0	3.3	--	18.8	--	--	--	--	20.1	22.6	7.1	39.4	37.1	16.1	14.7	25.0	20.5	NA	19.5	6	18.8	25.1	19.7	20.4	3.4
Suspended Solids	mg/L			--	--	--	--	--	--	--	4.4	19.2	7.2	5.6	ND	33.6	75.6	2.4	ND	11.4	3.5	3.8	13.8	3.4	51.8	18	6.2	5.9	5.6
Volatile Organic Compounds																													
Total Petroleum Hydrocarbons	mg/L			--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	ND
1,1,1,2-Tetrachloroethane	µg/L			ND*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	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	ND	ND	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	ND	ND	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	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	µg/L			2.3*	ND	ND	ND	ND	ND	ND	ND	1.8	ND	1	ND	ND	ND	1	ND	1.77	ND	2.02	ND	ND	ND	1.69	ND	ND	ND
1,1-Dichloroethene	µg/L			ND*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	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	ND	ND	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	ND	ND	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	ND	ND	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	ND	ND	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	ND	ND	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	ND	ND	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	ND	ND	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	ND	ND	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	ND	ND	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	ND	ND	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	ND	ND	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	ND	ND	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	ND	ND	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	ND	ND	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	ND	ND	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	ND	ND	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	ND	ND	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	ND	ND	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	ND	ND	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	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	µg/L			1.2*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	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	ND	ND	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	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	µg/L	70	35	2.6*	ND	ND	ND	ND	ND	ND	ND	1.9	ND	1	ND	ND	ND	1.6	1.05	2.96	ND	2.75	ND	ND	ND	2.66	ND	ND	ND
cis-1,3-Dichloropropene	µg/L			ND*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	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	ND	ND	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	ND	ND	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	ND	ND	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	ND	ND	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	ND	ND	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	ND	ND	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	ND	ND	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	ND	ND	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	ND	ND	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	ND	ND	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	ND	ND	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	ND	ND	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	ND	ND	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	ND	ND	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	ND	ND	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	ND	ND	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	0	0	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 9 - Field Parameter Monitoring Results (2008-Present)

Dickinson Landfill - Spirit Lake, Iowa
Permit No. 30-SDP-07-75P

Parameter	Date	Units	MW-11A	MW-12A	MW-13A	MW-19A	MW-21A	MW-23A	MW-34A	MW-36A	MW-37A	MW-38A	MW-39A	MW-40A	GW Holding Pond
Depth to Water	04/24/08	Feet	17.34	17.56	16.64	3.64	25.35	NT	NT	NT	NT	NT	NT	NT	NA
	05/21/08		12.25	15.83	15.75	3.66	17.68	NT	NT	NT	NT	NT	NT	NT	NA
	06/18/08		12.44	15.98	15.38	3.92	18.02	NT	NT	NT	NT	NT	NT	NT	NA
	08/13/08		16.78	18.90	19.42	4.02	19.95	NT	NT	NT	NT	NT	NT	NT	NA
	09/24/08		20.50	20.49	21.68	4.40	22.22	NT	NT	NT	NT	NT	NT	NT	NA
	04/27/09		11.41	17.36	14.78	3.04	22.27	9.72	21.02	21.19	NT	NT	NT	NT	NA
	10/26/09		20.73	15.80	15.49	3.42	22.26	9.18	21.28	20.23	18.95	13.97	NT	NT	NA
	11/23/09		NT	NT	NT	NT	NT	NT	NT	NT	19.57	14.32	NT	NT	NA
	12/17/09		17.60	17.77	18.83	3.59	20.90	10.77	21.31	21.89	19.42	14.18	NT	NT	NA
	04/13/10		14.65	13.42	17.60	2.06	18.09	6.23	20.90	21.11	17.58	12.52	NT	NT	NA
	05/18/10		NT	NT	NT	NT	NT	8.71	20.56	20.25	18.11	12.94	NT	NT	NA
	06/21/10		NT	NT	NT	NT	NT	10.92	20.00	18.68	18.95	14.71	NT	NT	NA
	07/09/10		NT	16.40	NT	3.82	NT	10.02	NT	NT	18.75	14.85	NT	NT	NA
	08/18/10		NT	NT	NT	NT	NT	10.29	19.21	19.96	19.68	15.15	NT	NT	NA
	10/18/10		17.04	17.56	17.79	4.47	20.93	11.73	19.81	20.64	19.81	16.75	NT	NT	NA
	05/10/11		14.61	16.24	16.54	3.49	22.77	9.36	20.49	21.19	18.84	14.75	NT	NT	NA
	10/19/11		18.86	20.26	20.81	5.01	23.39	13.88	19.94	22.20	20.85	17.29	NT	NT	NA
	04/24/12		23.43	21.16	18.23	4.16	26.90	13.76	21.02	20.61	20.45	15.59	NT	NT	NA
	10/25/12*		26.21	22.33	24.38	4.55	27.50	15.33	22.19	23.25	23.10	16.13	19.95	NT	NA
	05/13/13		Dry	15.92	7.11	3.25	29.05	12.73	22.60	19.88	19.53	12.92	16.01	NT	NA
	11/13/13		27.56	22.15	23.72	4.82	27.03	14.59	24.71	23.23	23.26	16.32	17.51	NT	NA
	11/12/14		29.74	21.38	21.36	6.52	27.98	13.48	21.79	21.08	Frozen	Frozen	17.78	21.17	NA
	05/30/17		15.86	15.31	16.60	4.23	19.16	11.90	10.22	19.87	18.31	13.95	11.33	12.90	NA
	11/21/17		17.58	17.59	18.99	4.10	11.64	13.79	10.35	19.99	19.56	14.44	13.18	16.90	NA
	05/31/18		12.78	15.13	16.14	4.30	17.28	12.20	10.44	20.02	18.25	14.82	10.41	13.20	NA
	11/01/18		13.52	16.35	17.41	4.93	17.80	13.12	10.67	20.18	18.62	17.50	11.01	15.10	NA
	05/28/19		8.79	11.25	3.79	3.79	17.96	10.02	8.22	Inaccessible	17.18	14.80	7.87	8.86	NA
	10/15/19		14.69	15.09	16.87	4.57	20.74	12.74	10.61	20.09	19.36	16.00	12.24	15.39	NA
	06/03/20		13.35	15.27	16.34	4.77	19.05	12.31	10.20	Inaccessible	18.60	16.13	10.86	14.94	NA
	10/07/20		11.49	20.31	23.27	5.09	24.33	15.15	Inaccessible	Inaccessible	22.02	17.34	11.18	15.36	NA
	05/03/21		23.48	16.96	19.75	5.88	26.70	12.80	23.74	23.22	21.05	16.32	14.80	15.81	NA
	11/09/21		23.00	18.09	24.68	7.36	26.50	12.90	Inaccessible	Inaccessible	21.20	16.52	14.55	17.93	NA
	01/13/22		NT	NT	NT	NT	NT	13.96	22.10	20.66	NT	NT	NT	NT	NA
	05/17/22		23.24	17.38	17.36	4.91	25.58	12.46	23.63	23.12	19.70	14.95	13.79	15.47	NA
	10/17/22		23.38	20.54	23.02	7.19	25.53	14.95	24.07	23.95	22.61	17.41	16.05	16.57	NA
	05/22/23**		15.11	15.96	18.08	4.64	21.78	13.11	22.90	22.71	20.26	15.53	12.65	12.51	NA
	10/05/23		22.58	19.55	23.93	7.22	25.38	13.10	NT	NT	22.75	17.14	17.05	20.33	NA
	05/20/24		11.64	14.60	15.28	5.81	20.32	11.71	Dry	Dry	18.77	16.24	17.01	16.40	NA
	10/02/24		16.63	18.46	20.99	7.80	22.55	14.55	Inaccessible	27.40	21.33	18.09	14.54	18.80	NA
	05/12/25		19.10	16.53	15.92	4.13	25.18	12.22	21	20.44	20.38	12.78	13.88	18.62	NA
Electrical Conductance	04/24/08	µmhos/cm	680	2,964	1,170	633	562	NT	NT	NT	NT	NT	NT	NT	NT
	05/21/08		1,602	2,002	1,197	1,525	1,291	NT	NT	NT	NT	NT	NT	NT	NT
	06/18/08		694	1,302	523	700	577	NT	NT	NT	NT	NT	NT	NT	NT
	08/13/08		955	1,547	762	1,632	1,313	NT	NT	NT	NT	NT	NT	NT	NT
	09/24/08		877	1,623	672	891	736	NT	NT	NT	NT	NT	NT	NT	NT
	04/27/09		782	1,968	788	1,014	639	761	1,224	1,093	NT	NT	NT	NT	NT
	10/26/09		848	1,591	662	823	736	884	1,033	903	1,337	751	NT	NT	NT
	11/23/09		NT	NT	NT	NT	NT	NT	NT	NT	1,331	848	NT	NT	NT
	12/17/09		894	1,659	715	861	729	900	1,111	945	1,332	934	NT	NT	NT
	04/13/10		859	1,520	683	849	733	811	1,060	907	1,260	905	NT	NT	NT
	05/18/10		NT	NT	NT	NT	NT	841	1,083	943	1,274	896	NT	NT	NT
	06/21/10		NT	NT	NT	NT	NT	914	1,116	1,031	1,309	875	NT	NT	NT
	07/09/10		NT	1,650	NT	940	NT	917	NT	NT	1,285	837	NT	NT	NT
	08/18/10		NT	NT	NT	NT	NT	917	1,161	1,009	1,350	867	NT	NT	NT
	10/18/10		872	1,590	712	906	7	945	1,206	1,006	1,346	917	NT	NT	NT
	05/10/11		859	1,370	512	865	494	525	1,020	905	1,180	881	NT	NT	NT
	10/19/11		898	1,610	730	952	752	1,029	1,080	1,046	1,530	902	NT	NT	NT
	04/24/12		842	1,560	694	930	698	990	1,295	1,042	1,405	909	NT	NT	NT
	10/25/12*		888	1,660	727	930	660	1,005	1,100	967	1,520	88	976	NT	936
	05/13/13		Dry	1,639	835	894	776	894	1,102	978	1,604	1,127	1,035	NT	897
	11/13/13		825	1,617	690	869	730	966	1,115	1,017	1,453	980	1,010	NT	1,012
	11/12/14		788	1,400	692	825	682	888	953	870	Frozen	Frozen	945	817	1,020
	05/30/17		833	1,543	838	1,100	856	1,536	1,048	1,365	1,464	1,117	960	949	455
	11/21/17		899	1,640	883	1,131	908	1,516	1,090	1,287	1,667	1,179	1,054	944	1,052
	05/31/18		1,053	1,655	988	830	988	1,323	1,018	1,196	1,721	1,093	762	811	410
	11/01/18		876	1,638	864	1,170	863	1,283	1,114	1,042	1,835	1,098	988	952	451
	05/28/19		1,001	1,649	875	1,005	873	1,504	947	Inaccessible	1,799	1,090	741	753	462

Table 9 - Field Parameter Monitoring Results (2008-Present)

Dickinson Landfill - Spirit Lake, Iowa
Permit No. 30-SDP-07-75P

Parameter	Date	Units	MW-11A	MW-12A	MW-13A	MW-19A	MW-21A	MW-23A	MW-34A	MW-36A	MW-37A	MW-38A	MW-39A	MW-40A	GW Holding Pond
Electrical Conductance	10/15/19	µmhos/cm	951	1,572	851	1,154	927	1,378	1,155	1,045	1,957	1,115	989	795	1,023
	06/03/20		1,011	1,698	968	1,052	933	1,370	772	Inaccessible	2,177	1,232	761	860	767
	10/07/20		1,168	1,917	839	913	850	1,367	Inaccessible	Inaccessible	2,553	1,413	808	779	930
	05/03/21		735	1,231	820	1,040	749	1,137	1,220	1,018	1,578	985	1,072	887	708
	5/3/21 (2)		NA	NA	NA	NA	NA	NA	NA	NA	1,620	NA	NA	NA	NA
	11/09/21		1,083	1,728	922	992	820	1,299	Inaccessible	Inaccessible	1,181	2,337	1,047	638	980
	01/13/22		NT	NT	NT	NT	NT	1,215	1,080	1,030	NT	NT	NT	NT	NT
	05/17/22		990	1,589	915	938	850	1,248	835	694	2,322	1,104	830	741	747
	10/17/22		1,036	1,624	871	840	843	1,253	745	639	2,252	1,160	834	678	543
	05/22/23**		968	1,670	1,125	921	947	1,356	761	709	2,436	1,064	669	719	782
	10/05/23		1,064	1,679	997	920	909	1,288	NT	NT	2,970	1,168	799	679	1,066
	05/20/24		1,036	1,919	1,035	871	861	1,296	Dry	Dry	3,498	1,350	507	580	1,109
	10/02/24		802	1,574	971	1,017	863	1,098	Inaccessible	NT	3,247	1,114	754	692	1,867
	05/12/25		1,158	1,808	956	1,328	927	1,047	1,602	1,417	3,749	1,356	864	710	985
pH	04/24/08	SU	7.68	5.88	6.93	7.66	7.61	NT	NT	NT	NT	NT	NT	NT	NT
	05/21/08		6.79	6.45	6.97	6.75	6.85	NT	NT	NT	NT	NT	NT	NT	NT
	06/18/08		7.51	6.94	7.55	7.39	7.50	NT	NT	NT	NT	NT	NT	NT	NT
	08/13/08		6.71	6.52	7.15	6.58	6.63	NT	NT	NT	NT	NT	NT	NT	NT
	09/24/08		6.50	6.08	6.65	6.50	6.55	NT	NT	NT	NT	NT	NT	NT	NT
	04/27/09		6.68	6.44	7.09	6.92	6.85	6.80	7.07	7.05	NT	NT	NT	NT	NT
	10/26/09		7.13	6.75	7.42	7.10	7.11	7.15	7.13	7.10	6.65	6.87	NT	NT	NT
	11/23/09		NT	NT	NT	NT	NT	NT	NT	NT	6.63	6.85	NT	NT	NT
	12/17/09		7.20	6.33	7.13	6.85	7.23	7.24	6.88	6.86	6.73	6.46	NT	NT	NT
	04/13/10		7.14	6.40	7.21	7.03	7.08	7.18	6.97	7.01	6.66	6.89	NT	NT	NT
	05/18/10		NT	NT	NT	NT	NT	7.17	7.00	6.99	6.55	6.86	NT	NT	NT
	06/21/10		NT	NT	NT	NT	NT	7.01	6.93	6.94	6.54	6.85	NT	NT	NT
	07/09/10		NT	6.75	NT	7.19	NT	7.23	NT	NT	6.37	6.89	NT	NT	NT
	08/18/10		NT	NT	NT	NT	NT	6.99	6.77	6.71	6.43	6.77	NT	NT	NT
	10/18/10		7.18	6.62	7.34	6.85	6.99	7.11	6.76	6.84	6.62	6.76	NT	NT	NT
	05/10/11		7.27	6.49	7.34	7.00	7.03	7.41	6.91	6.69	6.83	6.76	NT	NT	NT
	10/19/11		7.19	6.77	7.32	6.98	7.05	7.13	7.01	7.05	6.75	6.82	NT	NT	NT
	04/24/12		7.06	6.60	7.24	6.60	6.89	7.14	6.64	6.69	6.60	6.65	NT	NT	NT
	10/25/12*		7.01	6.58	7.13	7.01	7.92	7.03	7.05	6.97	6.54	8.00	7.10	NT	NT*
	05/13/13		Dry	6.59	7.11	6.80	6.89	7.17	6.98	6.80	6.69	6.66	6.94	NT	7.56
	11/13/13		7.06	6.56	7.04	7.02	6.92	7.03	7.08	7.01	6.48	6.72	6.83	NT	8.31
	11/12/14		7.17	6.79	7.24	7.11	7.24	7.15	NT	7.01	Frozen	Frozen	6.90	7.30	8.15
	05/30/17		7.15	6.40	7.00	6.92	7.14	6.60	6.31	6.87	6.58	6.69	6.79	6.90	8.24
	11/21/17		7.05	6.44	6.91	7.08	7.06	6.48	6.46	6.87	6.63	6.73	7.03	7.23	8.11
	05/31/18		7.10	6.32	6.95	7.16	7.02	6.67	6.31	6.70	6.47	6.60	7.20	7.27	8.41
	11/01/18		7.15	6.56	6.64	6.86	6.75	6.40	6.52	6.94	6.72	6.85	7.06	7.12	8.74
	05/28/19		7.09	6.34	6.96	6.99	6.74	6.08	6.82	Inaccessible	6.60	6.71	7.15	7.17	7.73
	10/15/19		6.75	6.20	6.90	6.47	6.75	6.42	6.48	6.88	6.34	6.48	6.83	6.97	7.29
	06/03/20		6.85	6.37	6.84	6.74	7.15	6.62	7.27	Inaccessible	6.57	6.78	7.04	6.92	8.58
	10/07/20		6.92	6.47	7.12	6.65	7.29	6.93	Inaccessible	Inaccessible	6.53	6.70	6.83	6.79	7.12
	05/03/21		6.97	6.47	6.80	6.40	7.18	6.56	6.61	6.68	6.59	6.77	6.44	6.69	8.04
	5/3/21 (2)		NA	NA	NA	NA	NA	NA	NA	NA	6.60	NA	NA	NA	NA
	11/09/21		7.12	6.47	6.75	7.21	6.86	6.28	Inaccessible	Inaccessible	6.75	6.55	7	7.43	7.41
	01/13/22		NT	NT	NT	NT	NT	6.31	6.65	6.68	NT	NT	NT	NT	NT
	05/17/22		7.13	6.52	6.6	7.05	6.73	6.2	6.61	6.35	6.58	6.82	6.24	6.73	7.32
	10/17/22		7	6.36	6.62	6.83	6.7	6.34	6.24	6.84	6.37	6.56	6.51	6.95	7.73
	05/22/23**		7.07	6.91	7.32	6.95	7.48	6.96	6.78	6.91	6.96	6.76	6.77	6.91	8.08
	10/05/23		6.92	6.34	7.04	6.69	7.32	6.82	NT	NT	6.31	6.73	6.71	6.95	6.99
	05/20/24		7.14	6.39	6.68	6.74	7	6.47	Dry	Dry	6.43	6.76	7.09	7.13	8.54
	10/02/24		7.02	6.41	6.69	6.43	6.94	6.41	Inaccessible	NT	6.32	6.67	6.29	6.69	7.35
	05/12/25		7	6.42	6.64	7.19	6.85	6.47	7.4	6.93	6.43	6.66	7.34	7.53	7.67
Temperature	04/24/08	°C	9.60	10.30	9.20	6.70	10.30	NT	NT	NT	NT	NT	NT	NT	NT
	05/21/08		9.10	9.80	8.60	7.80	10.00	NT	NT	NT	NT	NT	NT	NT	NT
	06/18/08		8.80	9.70	8.50	9.60	9.80	NT	NT	NT	NT	NT	NT	NT	NT
	08/13/08		9.50	10.40	9.50	13.10	10.20	NT	NT	NT	NT	NT	NT	NT	NT
	09/24/08		9.60	11.60	10.50	13.40	10.40	NT	NT	NT	NT	NT	NT	NT	NT
	04/27/09		9.10	9.70	8.70	6.80	10.00	6.30	7.90	7.10	NT	NT	NT	NT	NT
	10/26/09		9.40	11.10	10.90	12.10	10.10	12.50	11.40	12.30	10.40	13.80	NT	NT	NT
	11/23/09		NT	NT	NT	NT	NT	NT	NT	NT	10.80	13.80	NT	NT	NT
	12/17/09		9.60	11.20	10.40	8.90	10.00	10.20	10.40	11.30	10.70	13.90	NT	NT	NT
	04/13/10		8.90	9.70	8.80	7.40	10.20	6.80	7.96	8.10	9.30	8.20	NT	NT	NT
	05/18/10		NT	NT	NT	NT	NT	8.20	8.90	8.00	9.20	7.80	NT	NT	NT

Table 9 - Field Parameter Monitoring Results (2008-Present)

Dickinson Landfill - Spirit Lake, Iowa
Permit No. 30-SDP-07-75P

Parameter	Date	Units	MW-11A	MW-12A	MW-13A	MW-19A	MW-21A	MW-23A	MW-34A	MW-36A	MW-37A	MW-38A	MW-39A	MW-40A	GW Holding Pond
Temperature	06/21/10	°C	NT	NT	NT	NT	NT	9.70	9.80	8.60	9.20	8.60	NT	NT	NT
	07/09/10		NT	10.40	NT	12.30	NT	11.40	NT	NT	9.50	9.40	NT	NT	NT
	08/18/10		NT	NT	NT	NT	NT	13.20	12.36	11.39	10.10	10.90	NT	NT	NT
	10/18/10		9.80	11.70	10.90	13.39	11.00	13.40	13.05	13.18	11.00	12.60	NT	NT	NT
	05/10/11		9.50	10.30	9.30	7.45	10.90	7.30	8.40	8.19	9.90	7.50	NT	NT	NT
	10/19/11		9.60	11.00	10.30	13.00	10.70	12.80	12.90	12.30	10.70	11.40	NT	NT	NT
	04/24/12		10.00	10.80	10.20	7.50	11.30	8.60	9.10	8.70	10.30	9.10	NT	NT	NT
	10/25/12*		9.80	11.80	10.30	12.50	11.10	11.80	9.80	13.00	11.40	13.70	10.40	NT	1.0*
	05/13/13		Dry	10.60	9.60	5.80	12.23	6.90	10.30	8.10	10.40	9.31	9.30	NT	16.20
	11/13/13		8.90	11.40	10.10	11.50	11.52	11.60	10.80	11.80	10.80	12.85	10.20	NT	1.00
	11/12/14		9.00	11.10	10.10	11.00	12.10	11.90	NT	12.00	Frozen	Frozen	9.90	9.70	3.00
	05/30/17		9.08	10.30	9.20	8.40	12.90	9.60	7.80	8.10	9.80	9.40	7.80	8.30	18.20
	11/21/17		10.10	11.40	11.30	10.40	12.90	13.32	10.80	10.50	10.90	12.40	10.60	11.80	2.00
	05/31/18		9.10	10.10	9.00	7.90	12.80	9.20	7.80	8.20	9.70	8.80	7.30	8.10	26.10
	11/01/18		10.10	11.30	11.60	11.80	13.10	14.50	10.90	11.10	10.80	12.20	11.90	11.60	8.70
	05/28/19		8.70	8.70	8.40	7.40	12.50	8.30	7.90	Inaccessible	9.30	8.60	7.10	8.00	16.60
	10/15/19		9.80	10.70	10.40	12.70	10.00	15.50	11.30	11.00	10.10	11.70	10.50	11.00	8.60
	06/03/20		9.20	9.50	9.10	8.60	12.60	9.20	8.00	Inaccessible	10.00	9.50	7.50	8.80	25.71
	10/07/20		9.90	11.00	10.60	12.90	12.50	15.00	Inaccessible	Inaccessible	11.10	12.70	10.30	10.90	17.70
	05/03/21		9.60	9.80	9.40	7.10	12.30	8.70	11.80	8.50	10.10	9.60	8.30	9.40	18.70
	5/3/21 (2)		NA	NA	NA	NA	NA	NA	NA	NA	10.16	NA	NA	NA	NA
	11/09/21		10.3	11.9	11.2	11.8	12.3	15.2	Inaccessible	Inaccessible	13.6	11.3	10.6	12	10.7
	01/13/22		NT	NT	NT	NT	NT	10.8	11.3	10.6	NT	NT	NT	NT	NT
	05/17/22		8.9	9.1	9.1	5.9	11.9	6.9	7.7	8.5	9.7	8.7	7.5	8.5	17.4
	10/17/22		9.7	10	9.8	12.1	11.9	14.3	10.1	10.1	10.2	12.5	9.9	10.5	6.3
	05/22/23**		9.3	9.9	9.4	8.1	12.3	10.5	9	9	10.2	9.8	8	9.2	23.9
	10/05/23		10	11.3	10.3	13.3	11.6	14.8	NT	NT	11	12.5	10.3	112	17.6
	05/20/24		9.6	10	10.1	8.5	12.1	9.7	Dry	Dry	10.5	10	8.2	9.2	22
	10/02/24		10.5	10.8	11.4	13.3	12.1	14.9	Inaccessible	NT	10.9	12	11.3	11.5	16.2
	05/12/25		10.1	10.2	9.8	7.2	11.9	8.2	9.1	7.8	10.8	9.3	8.4	9.2	21.81
Oxidation-Reduction Potential (ORP / eH)	10/26/09	mV	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
	11/23/09		NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
	12/17/09		NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
	04/13/10		NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
	05/18/10		NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
	06/21/10		NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
	07/09/10		NT	243.6	NT	NT	NT	267.0	NT	NT	NT	NT	NT	NT	NT
	08/18/10		NT	NT	NT	NT	NT	-70.8	NT	NT	-186.8	-167.9	NT	NT	NT
	10/18/10		219.0	-3.0	149.0	NT	NT	244.0	149.0	139.5	205.0	NT	NT	NT	NT
	05/10/11		164.0	-120.0	0.6	8.0	NT	160.0	66.0	64.0	36.0	NT	NT	NT	NT
	10/19/11		208.0	60.6	117.0	-144.1	28.8	220.0	-155.3	-172.4	114.0	18.6	NT	NT	NT
	04/24/12		157.0	0.0	120.0	66.4	148.0	149.0	83.1	75.4	55.0	27.0	NT	NT	NT
	10/25/12*		521.0	170.0	300.0	100.9	151.0	471.0	93.6	111.0	318.0	35.0	NT	NT	NT
	05/07/13		NT	-117.0	68.8	242.5	234.2	NT	237.5	174.0	-56.2	114.7	70.0	NT	62.6
	11/11/13		212.7	-151.1	11.3	86.8	229.1	179.7	186.6	100.9	-57.7	101.3	NT	NT	98.7
	05/13/14		324.6	-41.7	193.9	320.4	233.9	240.3	340.9	334.2	-17.6	178.3	310.0	NT	302.6
	11/12/14		164.9	-103.2	-69.8	56.8	-4.7	42.2	35.4	-49.6	Frozen	Frozen	33.4	62.2	79.1
	05/27/15		250.8	-72.7	123.6	76.1	30.4	-39.8	68.0	59.4	-69.6	-69.1	NT	127.6	39.6
	11/18/15		206.5	-141.6	28.4	32.1	34.5	62.1	17.8	3.5	-82.9	-0.6	7.6	44.3	81.3
	06/16/16		124.8	NT	29.1	NT	180.2	NT	173.3	175.9	NT	NT	61.6	158.0	8.9
	11/16/16		242.2	-89.3	80.1	13.5	74.2	113.1	169.3	141.7	14.3	-2.3	31.9	138.6	134.5
	05/30/17		145.2	-91.5	82.8	128.6	97.7	88.7	196.7	178.5	-67.0	13.5	191.4	186.2	136.6
	11/21/17		283.8	-86.5	225.6	7.3	225.6	NT	157.2	194.3	-76.5	20.0	164.6	159.2	140.4
	05/31/18		234.7	-51.0	199.7	100.6	211.3	94.0	179.2	180.1	-60.0	35.5	228.3	226.2	186.4
	10/31/18		217.5	-35.5	199.3	-2.0	204.1	68.0	-56.4	101.4	3.5	70.5	78.5	84.3	37.6
	05/28/19		142.5	36.0	90.5	53.9	81.8	59.6	166.9	Inaccessible	-56.3	48.0	164.7	154.8	72.1
	10/15/19		184.6	-62.1	134.4	-15.1	214.8	-28.4	-55.4	89.4	-43.7	29.7	77.0	83.8	93.7
	06/03/20		87.3	-93.1	79.1	-12.4	79.9	1.0	129.3	Inaccessible	-63.1	14.4	128.0	130.7	71.2
	10/07/20		137.7	-121.2	148.6	-109.0	106.1	38.5	Inaccessible	Inaccessible	-89.7	3.1	107.0	107.8	3.4
	05/03/21		189.6	-124.9	61.0	18.0	99.6	-8.2	182.7	175.1	-113.7	-6.0	177.3	162.2	57.8
	5/3/21 (2)		NA	NA	NA	NA	NA	NA	NA	NA	-121.2	NA	NA	NA	NA
	11/09/21		149.3	-86.4	58.6	-37.6	-53.7	-66	Inaccessible	Inaccessible	35.6	0.4	184	172.1	15.6
	01/13/22		NT	NT	NT	NT	NT	41.5	-71.2	-40.4	NT	NT	NT	NT	NT
	05/17/22		255.8	24.6	138	152.2	132	48	261.7	265.2	-64.6	157.4	276.2	243	182.6
	10/17/22		121.8	-88.6	145.3	47	109	47.8	169.7	192.2	-55.8	29.2	170.6	174.5	101.7
	05/22/23**		136.4	-102.6	-82.3	50.3	37.2	-88.8	301.4	279.1	-70.6	57.5	290.8	NT	196
	10/05/23		130.7	-69	53.2	98.9	82.2	19.6	NT	NT	-61.5	127.6	276.3	268.2	167.4

Table 9 - Field Parameter Monitoring Results (2008-Present)

Dickinson Landfill - Spirit Lake, Iowa
Permit No. 30-SDP-07-75P

Parameter	Date	Units	MW-11A	MW-12A	MW-13A	MW-19A	MW-21A	MW-23A	MW-34A	MW-36A	MW-37A	MW-38A	MW-39A	MW-40A	GW Holding Pond
Oxidation-Reduction Potential (ORP / eH)	05/20/24	mV	146	-48.7	22.3	173.4	80.3	-110.4	Dry	Dry	-48	53.2	204.7	185.8	109.8
	10/02/24		127	-50.1	-15.9	97.7	12.7	-188.1	Inaccessible	NT	-13.9	96.6	229.3	193.9	110.4
	05/12/25		156.9	-48.9	89	-1	71.2	-50	-168.1	141.3	-53.2	57.8	72.7	80.8	79
Dissolved Oxygen (DO)	10/26/09	mg/L	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
	11/23/09		NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
	12/17/09		NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
	04/13/10		4.30	NT	NT	NT	1.00	7.90	NT	NT	0.10	0.10	NT	NT	NT
	05/18/10		NT	NT	NT	NT	NT	NT	NT	NT	1.50	NT	NT	NT	NT
	06/21/10		NT	NT	NT	NT	NT	8.20	NT	NT	0.30	0.30	NT	NT	NT
	07/09/10		NT	1.60	NT	6.90	NT	7.30	NT	NT	2.10	2.00	NT	NT	NT
	08/18/10		NT	NT	NT	NT	NT	6.10	4.47	1.59	2.30	1.50	NT	NT	NT
	10/18/10		3.50	0.30	6.20	7.69	NT	5.40	4.54	1.18	0.20	NT	NT	NT	NT
	05/10/11		4.30	0.80	62.00	0.68	4.80	7.90	3.38	1.29	0.30	3.70	NT	NT	NT
	10/19/11		1.80	0.30	3.70	4.80	2.40	3.00	5.10	1.90	1.66	2.90	NT	NT	NT
	04/24/12		1.80	0.30	3.80	7.10	1.30	6.50	6.80	2.00	0.30	0.10	NT	NT	NT
	10/25/12*		0.70	0.40	0.50	11.20	1.30	6.30	22.80	12.90	0.30	0.10	NT	NT	NT
	05/07/13		NA	0.20	7.10	6.60	2.07	9.40	5.60	1.60	0.20	0.34	1.90	NT	9.90
	11/11/13		5.40	0.30	0.00	10.10	3.45	7.50	8.30	2.40	0.30	2.25	0.40	NT	13.30
	05/13/14		9.20	3.00	8.20	8.90	3.11	8.10	4.10	2.10	0.90	1.56	0.60	NT	10.50
	11/12/14		8.10	0.80	6.60	7.70	3.50	4.90	2.22	2.00	Frozen	Frozen	1.50	10.10	11.30
	05/27/15		9.70	0.50	7.10	7.50	1.47	1.86	3.80	2.40	1.38	1.20	2.30	6.40	15.40
	11/18/15		15.30	5.20	10.80	4.14	10.00	4.90	2.53	1.37	3.40	0.21	1.50	10.50	13.30
	06/16/16		0.80	NT	6.11	NT	1.70	NT	8.90	6.80	NT	NT	10.83	8.60	12.20
	11/16/16		5.70	2.80	6.60	3.20	2.50	1.30	4.30	0.80	1.50	1.60	6.90	9.70	12.50
	05/30/17		9.40	2.70	5.70	5.80	0.80	3.30	2.60	1.60	2.10	2.30	7.50	7.30	12.60
	11/21/17		11.20	5.60	9.70	0.53	2.40	NT	2.00	1.20	5.70	4.80	7.30	8.50	14.00
	05/31/18		4.00	2.80	2.10	0.70	0.40	1.99	3.90	0.80	1.87	1.80	8.00	7.70	14.60
	10/31/18		3.70	2.50	5.70	0.40	2.90	2.90	1.50	3.50	2.40	2.00	7.50	8.50	12.40
	05/28/19		2.33	0.71	3.81	0.84	0.59	1.42	4.89	Inaccessible	0.43	0.46	10.94	10.16	8.81
	10/15/19		5.30	2.00	5.20	0.20	2.60	2.30	0.80	5.90	1.30	1.50	8.20	10.10	11.60
	06/03/20		4.80	0.20	7.10	0.20	1.00	5.00	3.10	Inaccessible	0.22	0.20	9.70	9.50	16.89
	10/07/20		3.39	2.86	8.71	0.26	5.20	8.72	Inaccessible	Inaccessible	2.60	2.20	8.32	5.90	12.37
	05/03/21		6.90	0.20	5.30	0.60	2.80	3.60	6.30	7.50	0.10	0.10	7.00	5.50	14.80
	5/3/21 (2)		NA	NA	NA	NA	NA	NA	NA	NA	0.07	NA	3.9	NA	NA
	11/09/21		3.7	1.6	2.8	5.6	0.6	0.2	Inaccessible	Inaccessible	0.40	0.3	3.9	102.0	11.0
	05/17/22		7	3	7.8	3.5	2.1	1.5	8.7	9.2	0.5	1.9	10.1	5.8	10
	10/17/22		3.1	0.6	9	8.1	1.8	1.7	7.2	8.1	0.5	0.4	7.3	6	13.6
	05/22/23**		4.1	0.5	6.1	1.9	4.6	0.4	9	8.8	0.3	0.5	8.2	9.5	13.2
	10/05/23		2.4	1	5.9	0	1.9	2	NT	NT	0.5	5	7.7	8.6	12.8
	05/20/24		6.7	0.6	6.6	1.2	1.4	0.5	Dry	Dry	0.4	0.6	11.9	11.5	12.9
	10/02/24		4.9	0.6	5.7	0.1	0.9	0.2	Inaccessible	NT	2.1	0.9	8.2	8.6	12.2
	05/12/25		1.2	0.5	4.7	43	4.6	2.2	4.5	2.1	0.4	0.4	7.8	2.3	9.1
Turbidity	04/24/08	NTU	24.7	6.3	8.6	182.0	9.3	NT	NT	NT	NT	NT	NT	NA	NT
	05/21/08		21.7	3.1	6.9	102.0	7.6	NT	NT	NT	NT	NT	NT	NA	NT
	06/18/08		14.1	2.4	7.6	10.0	2.3	NT	NT	NT	NT	NT	NT	NA	NT
	08/13/08		0.0	0.0	0.0	8.5	1.1	NT	NT	NT	NT	NT	NT	NA	NT
	09/24/08		1.5	2.8	8.6	17.9	1.6	NT	NT	NT	NT	NT	NT	NA	NT
	04/27/09		8.1	2.9	2.9	35.2	0.8	7.2	3.2	4.2	NT	NT	NT	NA	NT
	10/26/09		23.9	1.1	0.5	7.2	1.9	3.4	1.7	1.0	266.0	405.0	NT	NA	NT
	11/23/09		NT	NT	NT	NT	NT	NT	NT	NT	57.6	55.2	NT	NA	NT
	12/17/09		5.9	0.0	1.6	50.4	2.1	1.7	9.8	2.4	72.3	75.0	NT	NA	NT
	04/13/10		5.3	0.0	6.1	8.6	1.2	7.1	6.0	2.6	10.5	3.8	NT	NA	NT
	05/18/10		NT	NT	NT	NT	NT	5.2	0.0	0.0	45.1	2.5	NT	NA	NT
	06/21/10		NT	NT	NT	NT	NT	2.2	2.4	0.0	13.6	18.7	NT	NA	NT
	07/09/10		NT	0.7	NT	11.5	NT	3.9	NT	NT	9.2	1.8	NT	NA	NT
	08/18/10		NT	NT	NT	NT	NT	0.1	0.1	7.6	18.1	0.0	NT	NA	NT
	10/18/10		24.9	5.1	2.7	0.3	0.0	7.0	0.0	0.0	89.0	0.3	NT	NA	NT
	05/10/11		5.6	0.9	0.6	44.9	0.0	7.9	28.6	1.2	17.9	0.5	NT	NA	NT
	10/19/11		14.2	5.3	5.3	22.4	1.1	25.2	15.7	2.2	14.0	9.0	NT	NA	NT
	04/24/12		10.9	0.3	17.8	33.9	0.9	43.0	9.7	2.7	12.8	1.1	NT	NA	NT
	10/25/12*		17.3	12.1	7.2	18.9	0.0	5999.0	4.2	5.0	146.0	0.2	35.5	NA	NT*
	05/13/13		Dry	5.8	0.0	6.7	0.9	74.5	6.3	0.0	10.4	5.2	15.9	NA	4.0
	11/13/13		162.9	0.7	0.0	3.7	0.7	46.2	0.0	0.0	180.1	27.0	39.2	NA	3.3
	11/12/14		392.1	5.4	9.6	28.7	0.0	15.0	NT	9.6	Frozen	Frozen	10.4	1380.0	18.8
	05/30/17		0.0	0.6	0.0	8.6	0.0	0.0	0.2	1.0	11.5	3.5	7.2	4.9	20.1
	11/21/17		5.1	0.0	0.0	7.1	0.7	0.0	0.0	0.0	0.0	0.0	7.7	3.5	22.6

Table 9 - Field Parameter Monitoring Results (2008-Present)

Dickinson Landfill - Spirit Lake, Iowa
Permit No. 30-SDP-07-75P

Parameter	Date	Units	MW-11A	MW-12A	MW-13A	MW-19A	MW-21A	MW-23A	MW-34A	MW-36A	MW-37A	MW-38A	MW-39A	MW-40A	GW Holding Pond
Turbidity	05/31/18	NTU	0.0	0.0	0.0	10.4	0.0	2.6	0.0	4.1	10.0	4.5	9.0	2.0	7.1
	11/01/18		0.9	0.0	0.3	2.1	1.4	1.0	5.1	0.0	13.3	28.5	8.1	0.0	39.4
	05/28/19		0.0	0.0	0.0	63.5	4.6	9.8	0.0	Inaccessible	5.5	0.0	7.0	0.0	37.1
	10/15/19		3.0	0.7	0.0	1.5	0.7	0.3	8.2	0.0	2.5	0.0	0.9	0.0	16.1
	06/03/20		0.0	1.7	0.0	10.5	11.7	2.7	7.7	Inaccessible	43.0	14.0	4.7	3.8	14.7
	10/07/20		6.3	0.0	6.9	7.5	35.1	1.1	Inaccessible	Inaccessible	0.0	0.0	8.1	5.0	25.0
	05/03/21		4.5	0.0	1.5	4.8	6.7	4.9	0.0	8.8	0.1	0.0	0.0	6.5	20.5
	5/3/21 (2)		NA	NA	NA	NA	NA	NA	NA	NA	0.0	NA	NA	NA	NA
	11/09/21		8.9	1.6	1.0	5.6	0.6	1.1	Inaccessible	Inaccessible	8.60	3.9	1.7	10.4	NA
	01/13/22		NT	NT	NT	NT	NT	0.4	0	0	NT	NT	NT	NT	NT
	05/17/22		4.1	8.1	0	8.9	0	0	9.6	6.7	0.3	4.3	6.3	2.9	19.5
	10/17/22		8.1	0	0	5.9	0	0	9.3	5.4	7.1	7.2	9	0.6	6
	05/22/23**		0.3	5.5	0.9	7.8	4.3	5.2	9.6	0	15.7	5.5	20.7	0	18.8
	10/05/23		21	2.5	0	3	0	0	NT	NT	45	6.6	4.3	3.2	25.1
	05/20/24		0	0	5.3	3.9	3	1.9	Dry	Dry	0	0	4.2	4.3	19.7
	10/02/24		0.4	0	0	8.3	4.8	0	Inaccessible	NT	0.2	17.7	4.9	0	20.4
	05/12/25		7.8	0	0.7	1.5	0	0.2	9.1	0	3.4	0	9	5.9	3.4
Total Dissolved Solids (field)	05/03/21	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	2.300	NA	NA	NA	NA
	5/3/21 (2)		NA	NA	NA	NA	NA	NA	NA	NA	1.091	NA	NA	NA	NA
	10/05/23		*Analysis for Total Dissolved Solids (TDS) Removed*												

Notes:

NT = not tested - well not installed, data not recorded or available

NA = not applicable

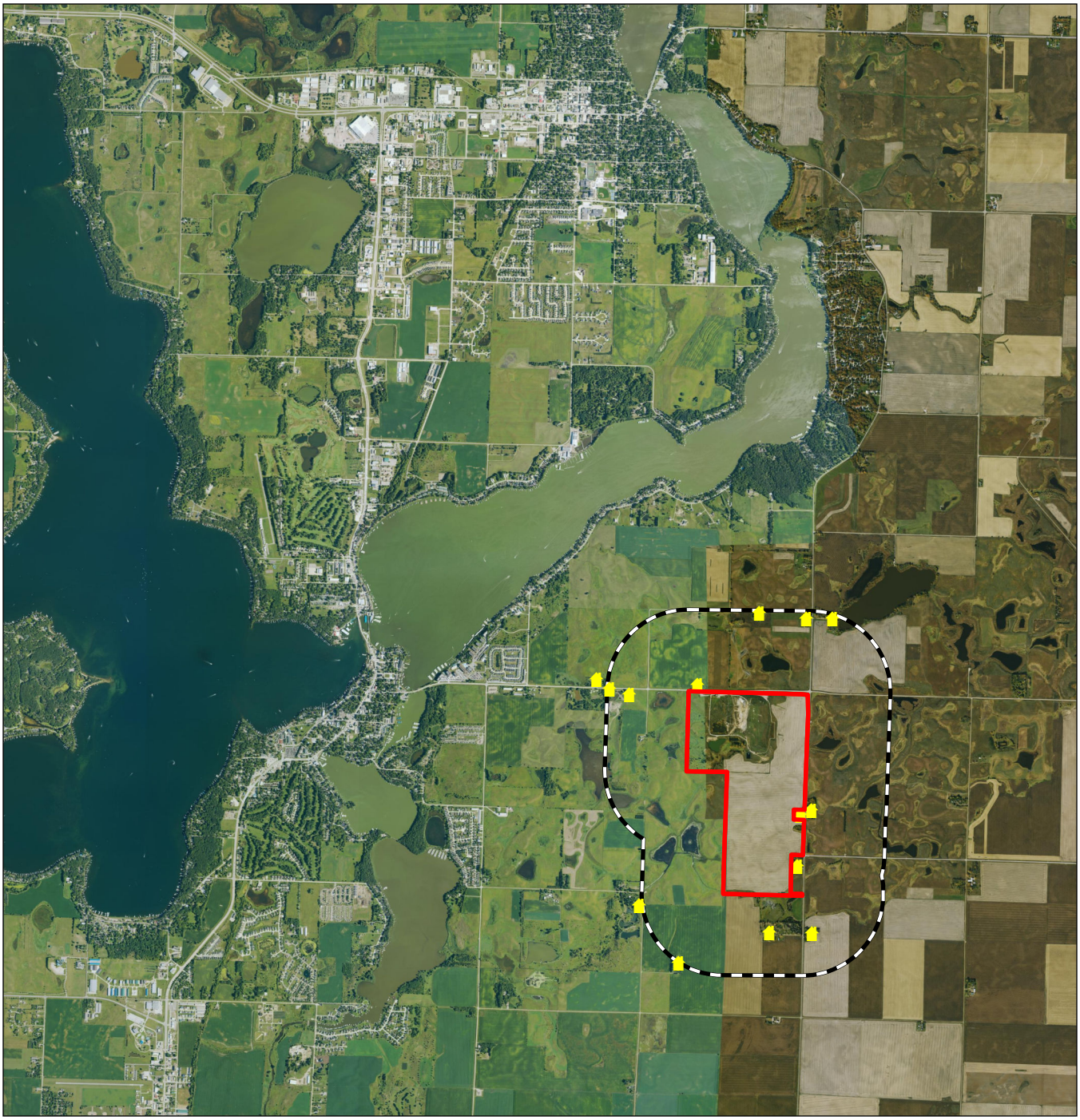
Data appears anomalous

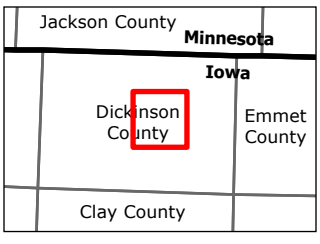
* GW Holding Pond Data collected on 12/4/12

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

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

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 TAW on 2025-06-09

Client/Project
Dickinson Landfill, Inc.
2025 Semi-Annual Monitoring Report

227702550

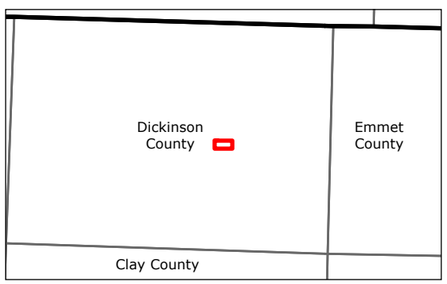
Figure No.
1

Title
Site Location Map

V:\227\active\227702550\0742-4002\pro\AnnualReport\AnnualReport.aprx Revised: 2025-06-09 By: bschafermeyer

Disclaimer: This document has been prepared based on information provided by others as cited in the Notes section. Stantec has not verified the accuracy and/or completeness of this information and shall not be responsible for any errors or omissions which may be incorporated herein as a result. Stantec assumes no responsibility for data supplied in electronic format, and the recipient accepts full responsibility for verifying the accuracy and completeness of the data.





Legend

- Landfill Property Line
- Closed Area
- LandfillGasFlarePad
- Sediment Pond
- Existing Permitted Boundary
- Permitted Waste Limits
- Existing Phase Limits
- Future Phase Limits
- Water Vaults
- Culvert
- Outfall
- Temporary Gas Probe (Installed April 2022)
- Well-Gas-Probe (Discontinued)
- Well-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: 2023 Aerial Photograph (Source: NAIP), 2020 Drone Imagery (Source: Stantec Survey)

Stantec

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

Prepared by TAW on 2025-06-09

Client/Project
Dickinson Landfill, Inc.
2025 Semi-Annual Monitoring Report

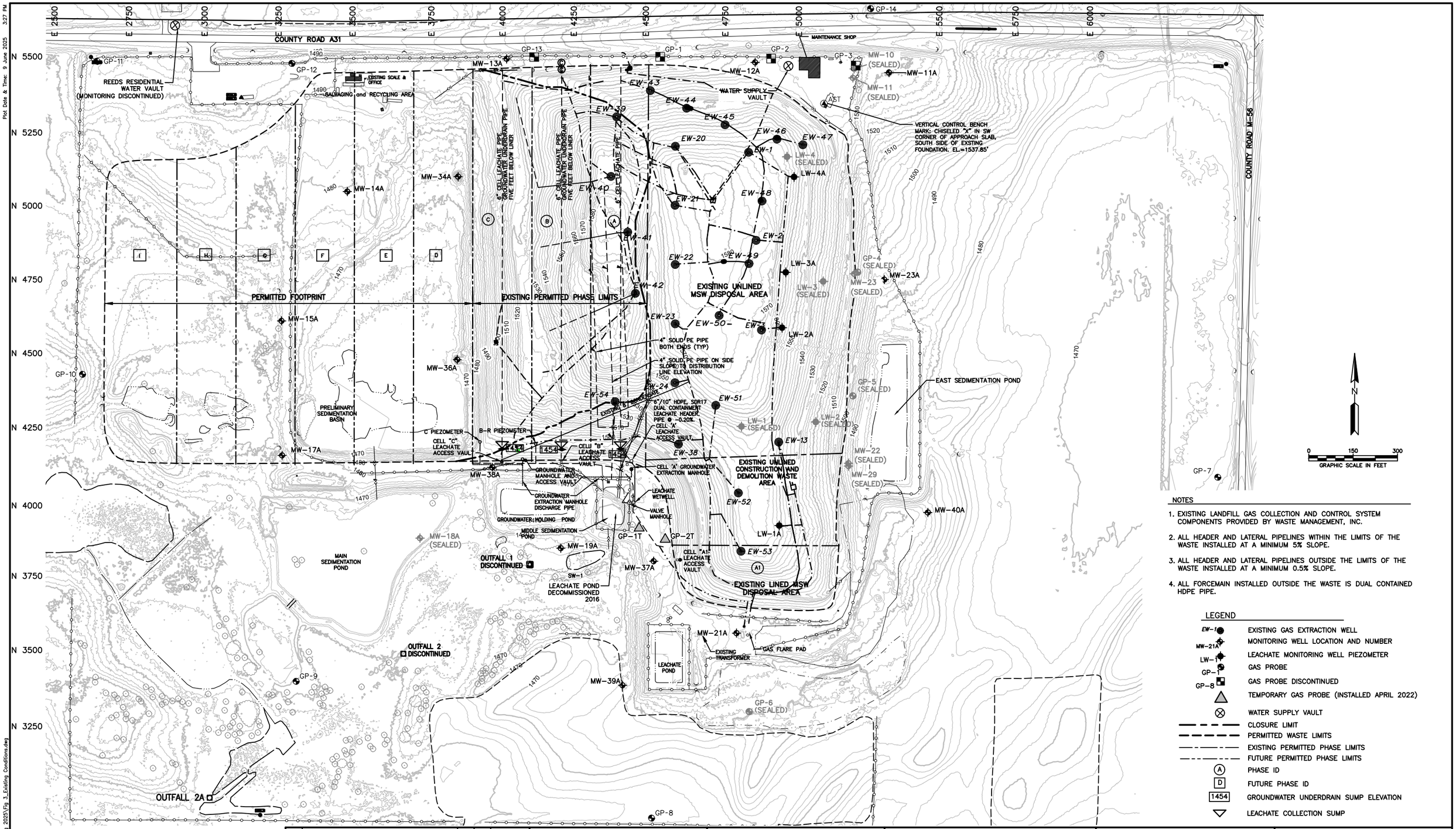
227702550

Figure No.
2

Title
Existing Conditions & Monitoring Locations

V:\227\active\227702550\742-002\pro\AnnualReport\AnnualReport.aprx Revised: 2025-06-09 By: tschafermeyer

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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 INITIALLY COMPLIED FROM AERIAL SURVEY TAKEN IN MAY 2018 AND UPDATED WITH AS-BUILT SURVEYS FROM LHB ON JANUARY 3, 2019. TOPOGRAPHY MOST RECENTLY UPDATED WITH AERIAL SURVEY TAKEN ON FEBRUARY 14, 2024.

REV	REVISION DESCRIPTION	DWN	APP	REV DATE

SEAL

SUB CONSULTANT

PRIME CONSULTANT

Stantec

PROJECT TITLE
2025 SEMI-ANNUAL MONITORING REPORT

DICKINSON COUNTY LANDFILL
SPIRIT LAKE, IA

SHEET TITLE
EXISTING CONDITIONS AND MONITORING LOCATIONS

DWN BY	CHK'D	APP'D	DWG DATE
JJT	GLS	CJA	JUNE 2025

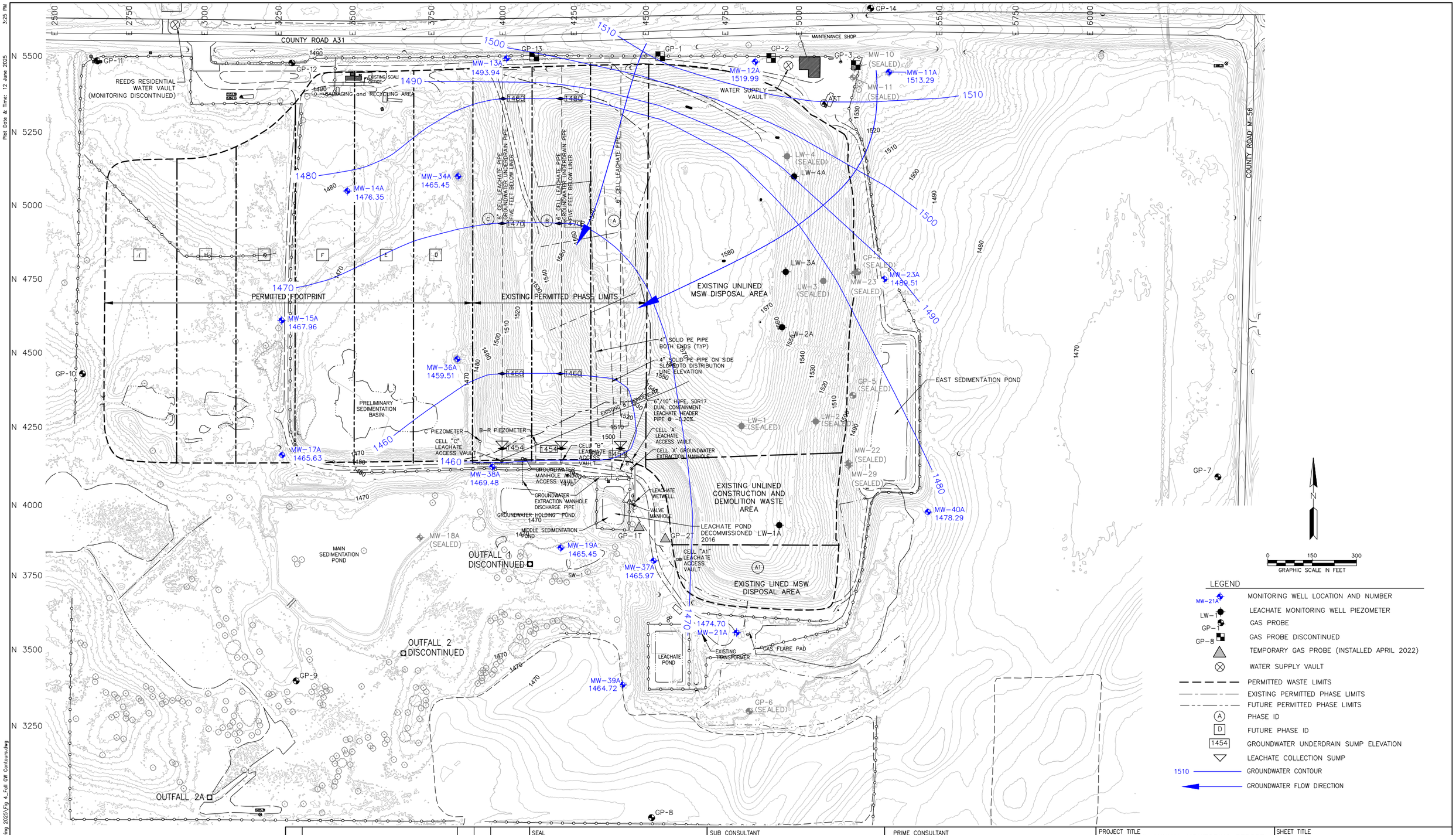
SCALE AS NOTED

PROJECT NO.	SHEET NO.	REV NO.
227702550	FIGURE 3	

Plot Date & Time: 9 June 2025 3:27 PM

I:\227702550\drafting\civil\cad\Spring 2025\Fig 3_Existing Conditions.dwg

Plot Date & Time: 12 June 2025 3:25 PM



LEGEND

- 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
- 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
- 1510 — GROUNDWATER CONTOUR
- GROUNDWATER FLOW DIRECTION

NOTE:
TOPOGRAPHY INITIALLY COMPLIED FROM AERIAL SURVEY TAKEN IN MAY 2018 AND UPDATED WITH AS-BUILT SURVEYS FROM LHB ON JANUARY 3, 2019. TOPOGRAPHY MOST RECENTLY UPDATED WITH AERIAL SURVEY TAKEN ON FEBRUARY 14, 2024.

REV	REVISION DESCRIPTION	DWN	APP	REV DATE

SEAL

SUB CONSULTANT

PRIME CONSULTANT

Stantec

PROJECT TITLE
2025 SEMI-ANNUAL MONITORING REPORT

DICKINSON COUNTY LANDFILL
SPIRIT LAKE, IA

SHEET TITLE
GROUNDWATER CONTOURS
MAY 12, 2025

DWN BY	CHK'D	APP'D	DWG DATE
SMT	GLS	CJA	JUNE 2025

SCALE AS NOTED

PROJECT NO.	SHEET NO.	REV NO.
227702550	FIGURE 4	–

U:\227702550\drafting\civil\cad\Spring 2025\Fig 4_Fall GW Contours.dwg

ATTACHMENT A – Pace National Analytical Reports (Spring Event, Spring 2025 Holding Pond NPDES, & July 2025 MW-23A Confirmation Event)

ANALYTICAL REPORT

June 04, 2025

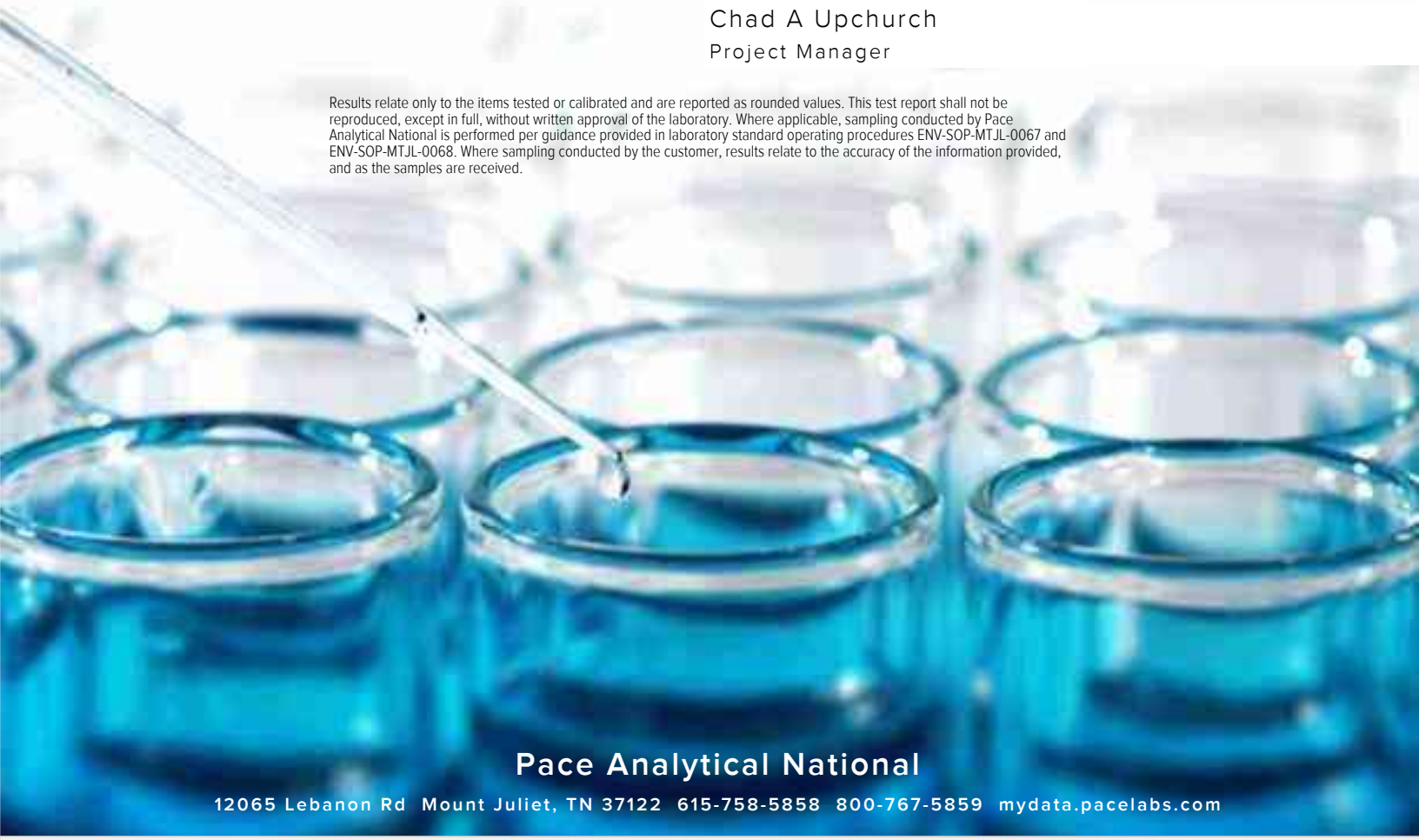
Dickinson Landfill

Sample Delivery Group:	L1858066
Samples Received:	05/13/2025
Project Number:	200
Description:	Semiannual GW Detection & Major Ions (6)
Site:	IA01
Report To:	Andy McCain C/O Spruce Ridge 12755 137th Street 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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Holding Pond L1858066-01

Collected by: JH | Collected date/time: 05/12/25 11:30 | Received date/time: 05/13/25 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 D-2011	WG2514293	1	05/14/25 09:41	05/15/25 18:35	JAC	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2514120	1	05/13/25 16:59	05/13/25 16:59	KRB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2514071	1	05/17/25 23:51	05/17/25 23:51	DLH	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG2516799	1	05/20/25 09:48	05/20/25 21:20	MAP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020A	WG2516887	1	05/20/25 08:39	05/21/25 00:24	UNP	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG2515144	1	05/15/25 01:51	05/15/25 01:51	JBE	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG2515444	1	05/15/25 16:39	05/15/25 16:39	BRA	Mt. Juliet, TN

MW-11A L1858066-02

Collected by: JH | Collected date/time: 05/12/25 09:38 | Received date/time: 05/13/25 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 D-2011	WG2514293	1	05/14/25 09:41	05/15/25 18:35	JAC	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2514120	1	05/13/25 18:23	05/13/25 18:23	KRB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2514071	1	05/18/25 00:17	05/18/25 00:17	DLH	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG2516799	1	05/20/25 09:48	05/22/25 12:10	MAP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020A	WG2516887	1	05/20/25 08:39	05/21/25 00:27	UNP	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG2515144	1	05/15/25 02:11	05/15/25 02:11	JBE	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG2515444	1	05/15/25 16:18	05/15/25 16:18	BRA	Mt. Juliet, TN

MW-12A L1858066-03

Collected by: JH | Collected date/time: 05/12/25 10:08 | Received date/time: 05/13/25 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 D-2011	WG2514293	1	05/14/25 09:41	05/15/25 18:35	JAC	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2514120	1	05/13/25 18:26	05/13/25 18:26	KRB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2514071	1	05/18/25 01:08	05/18/25 01:08	DLH	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG2516799	1	05/20/25 09:48	05/22/25 12:11	MAP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020A	WG2516887	1	05/20/25 08:39	05/21/25 00:30	UNP	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG2515144	1	05/15/25 02:31	05/15/25 02:31	JBE	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG2515444	1	05/15/25 15:56	05/15/25 15:56	BRA	Mt. Juliet, TN

MW-13A L1858066-04

Collected by: JH | Collected date/time: 05/12/25 09:47 | Received date/time: 05/13/25 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 D-2011	WG2514293	1	05/14/25 09:41	05/15/25 18:35	JAC	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2514120	1	05/13/25 18:30	05/13/25 18:30	KRB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2514071	1	05/18/25 01:21	05/18/25 01:21	DLH	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG2516799	1	05/20/25 09:48	05/22/25 12:13	MAP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020A	WG2516887	1	05/20/25 08:39	05/21/25 00:33	UNP	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG2515144	1	05/15/25 02:50	05/15/25 02:50	JBE	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG2515444	1	05/15/25 15:34	05/15/25 15:34	BRA	Mt. Juliet, TN

MW-19A L1858066-05

Collected by: JH | Collected date/time: 05/12/25 11:01 | Received date/time: 05/13/25 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 D-2011	WG2514293	1	05/14/25 09:41	05/15/25 18:35	JAC	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2514120	1	05/13/25 18:33	05/13/25 18:33	KRB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2514071	1	05/18/25 01:34	05/18/25 01:34	DLH	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2514071	10	05/18/25 01:47	05/18/25 01:47	DLH	Mt. Juliet, TN

MW-19A L1858066-05

Collected by	Collected date/time	Received date/time
JH	05/12/25 11:01	05/13/25 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010C	WG2516799	1	05/20/25 09:48	05/22/25 12:18	MAP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020A	WG2516887	1	05/20/25 08:39	05/21/25 00:43	UNP	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG2515144	1	05/15/25 03:10	05/15/25 03:10	JBE	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG2515444	1	05/15/25 15:13	05/15/25 15:13	BRA	Mt. Juliet, TN

MW-21A L1858066-06

Collected by	Collected date/time	Received date/time
JH	05/12/25 11:10	05/13/25 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 D-2011	WG2514293	1	05/14/25 09:41	05/15/25 18:35	JAC	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2514120	1	05/13/25 18:37	05/13/25 18:37	KRB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2514071	1	05/18/25 01:59	05/18/25 01:59	DLH	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG2516799	1	05/20/25 09:48	05/22/25 12:20	MAP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020A	WG2516887	1	05/20/25 08:39	05/21/25 00:46	UNP	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG2515144	1	05/15/25 03:30	05/15/25 03:30	JBE	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG2515444	1	05/15/25 14:51	05/15/25 14:51	BRA	Mt. Juliet, TN

MW-23A L1858066-07

Collected by	Collected date/time	Received date/time
JH	05/12/25 10:27	05/13/25 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 D-2011	WG2514293	1	05/14/25 09:41	05/15/25 18:35	JAC	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2514120	1	05/13/25 18:41	05/13/25 18:41	KRB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2514071	1	05/18/25 02:25	05/18/25 02:25	DLH	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG2516799	1	05/20/25 09:48	05/22/25 12:22	MAP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020A	WG2516887	1	05/20/25 08:39	05/21/25 00:49	UNP	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG2515144	1	05/15/25 03:50	05/15/25 03:50	JBE	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG2515444	1	05/15/25 14:30	05/15/25 14:30	BRA	Mt. Juliet, TN

MW-34A L1858066-08

Collected by	Collected date/time	Received date/time
JH	05/12/25 10:23	05/13/25 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 D-2011	WG2514293	1	05/14/25 09:41	05/15/25 18:35	JAC	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2514120	1	05/13/25 18:44	05/13/25 18:44	KRB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2514071	1	05/18/25 03:03	05/18/25 03:03	DLH	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2514071	10	05/18/25 03:16	05/18/25 03:16	DLH	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG2516799	1	05/20/25 09:48	05/22/25 12:23	MAP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020A	WG2516887	1	05/20/25 08:39	05/21/25 00:52	UNP	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG2515144	1	05/15/25 04:10	05/15/25 04:10	JBE	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG2515444	1	05/15/25 14:08	05/15/25 14:08	BRA	Mt. Juliet, TN

MW-36A L1858066-09

Collected by	Collected date/time	Received date/time
JH	05/12/25 09:53	05/13/25 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 D-2011	WG2514293	1	05/14/25 09:41	05/15/25 18:35	JAC	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2514120	1	05/13/25 18:48	05/13/25 18:48	KRB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2514071	5	05/18/25 03:29	05/18/25 03:29	DLH	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG2516799	1	05/20/25 09:48	05/22/25 12:25	MAP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020A	WG2516887	1	05/20/25 08:39	05/21/25 00:55	UNP	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG2515144	1	05/15/25 04:29	05/15/25 04:29	JBE	Mt. Juliet, TN

MW-36A L1858066-09

Collected by: JH | Collected date/time: 05/12/25 09:53 | Received date/time: 05/13/25 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260C	WG2515444	1	05/15/25 13:46	05/15/25 13:46	BRA	Mt. Juliet, TN

MW-37A L1858066-10

Collected by: JH | Collected date/time: 05/12/25 10:56 | Received date/time: 05/13/25 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 D-2011	WG2514432	1	05/14/25 09:42	05/14/25 09:45	MMF	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2514124	1	05/14/25 12:46	05/14/25 12:46	BJM	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2514071	5	05/18/25 03:55	05/18/25 03:55	DLH	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2514071	50	05/18/25 04:07	05/18/25 04:07	DLH	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG2516799	1	05/20/25 09:48	05/22/25 12:27	MAP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020A	WG2516887	1	05/20/25 08:39	05/21/25 00:58	UNP	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG2515144	1	05/15/25 04:49	05/15/25 04:49	JBE	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG2515444	1	05/15/25 13:25	05/15/25 13:25	BRA	Mt. Juliet, TN

MW-38A L1858066-11

Collected by: JH | Collected date/time: 05/12/25 11:36 | Received date/time: 05/13/25 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 D-2011	WG2514293	1	05/14/25 09:41	05/15/25 18:35	JAC	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2514124	1	05/14/25 12:51	05/14/25 12:51	BJM	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2514071	1	05/18/25 04:20	05/18/25 04:20	DLH	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2514071	10	05/18/25 04:33	05/18/25 04:33	DLH	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG2516799	1	05/20/25 09:48	05/22/25 12:01	MAP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020A	WG2516887	1	05/20/25 08:39	05/21/25 01:02	UNP	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG2515144	1	05/15/25 05:09	05/15/25 05:09	JBE	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG2515444	1	05/15/25 13:03	05/15/25 13:03	BRA	Mt. Juliet, TN

MW-39A L1858066-12

Collected by: JH | Collected date/time: 05/12/25 11:35 | Received date/time: 05/13/25 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 D-2011	WG2514293	1	05/14/25 09:41	05/15/25 18:35	JAC	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2514124	1	05/14/25 12:57	05/14/25 12:57	BJM	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2514071	1	05/18/25 04:46	05/18/25 04:46	DLH	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG2516799	1	05/20/25 09:48	05/22/25 12:29	MAP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020A	WG2516887	1	05/20/25 08:39	05/21/25 01:05	UNP	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG2515144	1	05/15/25 05:29	05/15/25 05:29	JBE	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG2515444	1	05/15/25 12:42	05/15/25 12:42	BRA	Mt. Juliet, TN

MW-40A L1858066-13

Collected by: JH | Collected date/time: 05/12/25 12:05 | Received date/time: 05/13/25 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 D-2011	WG2514293	1	05/14/25 09:41	05/15/25 18:35	JAC	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2514124	1	05/14/25 13:05	05/14/25 13:05	BJM	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2514071	1	05/18/25 05:24	05/18/25 05:24	DLH	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG2516799	1	05/20/25 09:48	05/22/25 12:30	MAP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020A	WG2516887	1	05/20/25 08:39	05/21/25 01:08	UNP	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG2515144	1	05/15/25 05:48	05/15/25 05:48	JBE	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG2515444	1	05/15/25 12:20	05/15/25 12:20	BRA	Mt. Juliet, TN

FIELD BLANK L1858066-14

Collected by: JH | Collected date/time: 05/12/25 09:10 | Received date/time: 05/13/25 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260C	WG2515144	1	05/15/25 01:12	05/15/25 01:12	JBE	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG2515444	1	05/15/25 11:58	05/15/25 11:58	BRA	Mt. Juliet, TN

TRIP BLANK L1858066-15

Collected by: JH | Collected date/time: 05/12/25 09:10 | Received date/time: 05/13/25 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260C	WG2515144	1	05/15/25 00:52	05/15/25 00:52	JBE	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG2515444	1	05/15/25 11:37	05/15/25 11:37	BRA	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.

Metals (ICP) by Method 6010C

The sample concentration is too high to evaluate accurate spike recoveries.

Batch	Lab Sample ID	Analytes
WG2516799	(MS) R4217950-4, (MS) R4219045-4, (MSD) R4217950-5, (MSD) R4219045-5, L1858066-11	Calcium

The analyte failed the method required serial dilution test and/or subsequent post-spike criteria. These failures indicate matrix interference.

Batch	Lab Sample ID	Analytes
WG2516799	L1858066-11	Sodium

Metals (ICPMS) by Method 6020A

The sample matrix interfered with the ability to make any accurate determination; spike value is low.

Batch	Lab Sample ID	Analytes
WG2516887	(MS) R4217790-4	Thallium

The associated batch QC was outside the established quality control range for precision.

Batch	Lab Sample ID	Analytes
WG2516887	(MSD) R4217790-5	Thallium

Volatile Organic Compounds (GC/MS) by Method 8260C

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
WG2515144	L1858066-01	Acetone and Vinyl chloride
WG2515144	L1858066-03	Chloroethane and Vinyl chloride
WG2515144	L1858066-04	Acetone, Chloroethane and Vinyl chloride
WG2515144	L1858066-05	Chloroethane
WG2515144	L1858066-09	Chloroethane
WG2515144	L1858066-10	Chloroethane and Vinyl chloride
WG2515144	L1858066-11	Chloroethane and Vinyl chloride
WG2515144	L1858066-14	Acetone

The associated batch QC was above the established quality control range for accuracy.

Batch	Lab Sample ID	Analytes
WG2515144	(LCS) R4216210-1, L1858066-01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 11, 12, 13, 14, 15	Chloroethane and Vinyl chloride

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	7.67	su
Specific Conductance (on site)	985	umhos/cm
Temperature (on-site)	21.81	Deg. C
Turbidity (on-site)	3.4	NTU
Dissolved Oxygen (on-site)	9.1	mg/l
eH/ORP (On Site)	79	mV

Gravimetric Analysis by Method 2540 D-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Suspended Solids	5.60		2.50	1	05/15/2025 18:35	WG2514293

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Alkalinity,Bicarbonate	317		20.0	1	05/13/2025 16:59	WG2514120
Alkalinity,Carbonate	ND		20.0	1	05/13/2025 16:59	WG2514120

Sample Narrative:

L1858066-01 WG2514120: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Chloride	73.8		1.00	1	05/17/2025 23:51	WG2514071
Sulfate	96.5		5.00	1	05/17/2025 23:51	WG2514071

Metals (ICP) by Method 6010C

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Silver	ND		0.0100	1	05/20/2025 21:20	WG2516799
Arsenic	ND		0.0100	1	05/20/2025 21:20	WG2516799
Barium	0.116		0.0200	1	05/20/2025 21:20	WG2516799
Beryllium	ND		0.00400	1	05/20/2025 21:20	WG2516799
Calcium	81.5		1.00	1	05/20/2025 21:20	WG2516799
Cadmium	ND		0.00500	1	05/20/2025 21:20	WG2516799
Chromium	ND		0.0100	1	05/20/2025 21:20	WG2516799
Copper	ND		0.0100	1	05/20/2025 21:20	WG2516799
Potassium	16.4		1.00	1	05/20/2025 21:20	WG2516799
Magnesium	46.2		1.00	1	05/20/2025 21:20	WG2516799
Sodium	54.5		1.00	1	05/20/2025 21:20	WG2516799
Nickel	0.0221		0.0100	1	05/20/2025 21:20	WG2516799
Lead	ND		0.0100	1	05/20/2025 21:20	WG2516799
Vanadium	ND		0.0200	1	05/20/2025 21:20	WG2516799
Zinc	ND		0.0500	1	05/20/2025 21:20	WG2516799

Metals (ICPMS) by Method 6020A

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Cobalt	ND		0.00200	1	05/21/2025 00:24	WG2516887
Antimony	ND		0.00600	1	05/21/2025 00:24	WG2516887
Selenium	ND		0.0100	1	05/21/2025 00:24	WG2516887
Thallium	ND		0.00200	1	05/21/2025 00:24	WG2516887

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	05/15/2025 01:51	WG2515144
1,2,3-Trichloropropane	ND		0.00580	1	05/15/2025 16:39	WG2515444
1,1,1-Trichloroethane	ND		1.00	1	05/15/2025 01:51	WG2515144
1,2-Dibromo-3-Chloropropane	ND		0.200	1	05/15/2025 16:39	WG2515444
1,1,2,2-Tetrachloroethane	ND		0.300	1	05/15/2025 01:51	WG2515144
1,2-Dibromoethane	ND		0.0500	1	05/15/2025 16:39	WG2515444
1,1,2-Trichloroethane	ND		1.00	1	05/15/2025 01:51	WG2515144
1,1-Dichloroethane	ND		1.00	1	05/15/2025 01:51	WG2515144
1,1-Dichloroethene	ND		1.00	1	05/15/2025 01:51	WG2515144
1,2-Dichlorobenzene	ND		1.00	1	05/15/2025 01:51	WG2515144
1,2-Dichloroethane	ND		1.00	1	05/15/2025 01:51	WG2515144
1,2-Dichloropropane	ND		1.00	1	05/15/2025 01:51	WG2515144
1,4-Dichlorobenzene	ND		1.00	1	05/15/2025 01:51	WG2515144
2-Butanone (MEK)	ND		10.0	1	05/15/2025 01:51	WG2515144
2-Hexanone	ND		5.00	1	05/15/2025 01:51	WG2515144
4-Methyl-2-pentanone (MIBK)	ND		5.00	1	05/15/2025 01:51	WG2515144
Acetone	ND	C5	25.0	1	05/15/2025 01:51	WG2515144
Acrylonitrile	ND		0.320	1	05/15/2025 01:51	WG2515144
Benzene	ND		1.00	1	05/15/2025 01:51	WG2515144
Bromochloromethane	ND		1.00	1	05/15/2025 01:51	WG2515144
Bromodichloromethane	ND		1.00	1	05/15/2025 01:51	WG2515144
Bromoform	ND		1.00	1	05/15/2025 01:51	WG2515144
Bromomethane	ND		2.50	1	05/15/2025 01:51	WG2515144
Carbon disulfide	ND		1.00	1	05/15/2025 01:51	WG2515144
Carbon tetrachloride	ND		1.00	1	05/15/2025 01:51	WG2515144
Chlorobenzene	ND		1.00	1	05/15/2025 01:51	WG2515144
Chloroethane	ND	J4	2.50	1	05/15/2025 01:51	WG2515144
Chloroform	ND		1.00	1	05/15/2025 01:51	WG2515144
Chloromethane	ND		1.25	1	05/15/2025 01:51	WG2515144
Dibromochloromethane	ND		1.00	1	05/15/2025 01:51	WG2515144
Dibromomethane	ND		1.00	1	05/15/2025 01:51	WG2515144
Ethylbenzene	ND		1.00	1	05/15/2025 01:51	WG2515144
Iodomethane	ND		10.0	1	05/15/2025 01:51	WG2515144
Methylene Chloride	ND		2.50	1	05/15/2025 01:51	WG2515144
Styrene	ND		1.00	1	05/15/2025 01:51	WG2515144
Tetrachloroethene	ND		1.00	1	05/15/2025 01:51	WG2515144
Toluene	ND		1.00	1	05/15/2025 01:51	WG2515144
Trichloroethene	ND		1.00	1	05/15/2025 01:51	WG2515144
Trichlorofluoromethane	ND		2.50	1	05/15/2025 01:51	WG2515144
Vinyl acetate	ND		5.00	1	05/15/2025 01:51	WG2515144
Vinyl chloride	ND	C5 J4	1.00	1	05/15/2025 01:51	WG2515144
Xylenes, Total	ND		3.00	1	05/15/2025 01:51	WG2515144
cis-1,2-Dichloroethene	ND		1.00	1	05/15/2025 01:51	WG2515144
cis-1,3-Dichloropropene	ND		1.00	1	05/15/2025 01:51	WG2515144
trans-1,2-Dichloroethene	ND		1.00	1	05/15/2025 01:51	WG2515144
trans-1,3-Dichloropropene	ND		1.00	1	05/15/2025 01:51	WG2515144
trans-1,4-Dichloro-2-butene	ND		1.00	1	05/15/2025 01:51	WG2515144
(S) 4-Bromofluorobenzene	*89.8*			*67.0-138*	*05/15/2025 01:51*	WG2515144
(S) Toluene-d8	*97.8*			*75.0-131*	*05/15/2025 01:51*	WG2515144
(S) 1,2-Dichloroethane-d4	*111*			*70.0-130*	*05/15/2025 01:51*	WG2515144

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
Depth to water (DTW) (FROM TOC)	19.1	ftmsl
pH (On Site)	7	su
Specific Conductance (on site)	1158	umhos/cm
Temperature (on-site)	10.1	Deg. C
Turbidity (on-site)	7.8	NTU
Dissolved Oxygen (on-site)	1.2	mg/l
eH/ORP (On Site)	156.9	mV

Gravimetric Analysis by Method 2540 D-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Suspended Solids	3.60		2.50	1	05/15/2025 18:35	WG2514293

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Alkalinity,Bicarbonate	419		20.0	1	05/13/2025 18:23	WG2514120
Alkalinity,Carbonate	ND		20.0	1	05/13/2025 18:23	WG2514120

Sample Narrative:

L1858066-02 WG2514120: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Chloride	27.5		1.00	1	05/18/2025 00:17	WG2514071
Sulfate	33.3		5.00	1	05/18/2025 00:17	WG2514071

Metals (ICP) by Method 6010C

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Silver	ND		0.0100	1	05/22/2025 12:10	WG2516799
Arsenic	ND		0.0100	1	05/22/2025 12:10	WG2516799
Barium	0.235		0.0200	1	05/22/2025 12:10	WG2516799
Beryllium	ND		0.00400	1	05/22/2025 12:10	WG2516799
Calcium	132		1.00	1	05/22/2025 12:10	WG2516799
Cadmium	ND		0.00500	1	05/22/2025 12:10	WG2516799
Chromium	ND		0.0100	1	05/22/2025 12:10	WG2516799
Copper	ND		0.0100	1	05/22/2025 12:10	WG2516799
Potassium	2.60		1.00	1	05/22/2025 12:10	WG2516799
Magnesium	46.0		1.00	1	05/22/2025 12:10	WG2516799
Sodium	7.67		1.00	1	05/22/2025 12:10	WG2516799
Nickel	ND		0.0100	1	05/22/2025 12:10	WG2516799
Lead	ND		0.0100	1	05/22/2025 12:10	WG2516799
Vanadium	ND		0.0200	1	05/22/2025 12:10	WG2516799
Zinc	ND		0.0500	1	05/22/2025 12:10	WG2516799

Metals (ICPMS) by Method 6020A

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Cobalt	ND		0.00200	1	05/21/2025 00:27	WG2516887
Antimony	ND		0.00600	1	05/21/2025 00:27	WG2516887
Selenium	ND		0.0100	1	05/21/2025 00:27	WG2516887

Metals (ICPMS) by Method 6020A

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Thallium	ND		0.00200	1	05/21/2025 00:27	WG2516887

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	05/15/2025 02:11	WG2515144
1,2,3-Trichloropropane	ND		0.00580	1	05/15/2025 16:18	WG2515444
1,1,1-Trichloroethane	ND		1.00	1	05/15/2025 02:11	WG2515144
1,2-Dibromo-3-Chloropropane	ND		0.200	1	05/15/2025 16:18	WG2515444
1,1,2,2-Tetrachloroethane	ND		0.300	1	05/15/2025 02:11	WG2515144
1,2-Dibromoethane	ND		0.0500	1	05/15/2025 16:18	WG2515444
1,1,2-Trichloroethane	ND		1.00	1	05/15/2025 02:11	WG2515144
1,1-Dichloroethane	ND		1.00	1	05/15/2025 02:11	WG2515144
1,1-Dichloroethene	ND		1.00	1	05/15/2025 02:11	WG2515144
1,2-Dichlorobenzene	ND		1.00	1	05/15/2025 02:11	WG2515144
1,2-Dichloroethane	ND		1.00	1	05/15/2025 02:11	WG2515144
1,2-Dichloropropane	ND		1.00	1	05/15/2025 02:11	WG2515144
1,4-Dichlorobenzene	ND		1.00	1	05/15/2025 02:11	WG2515144
2-Butanone (MEK)	ND		10.0	1	05/15/2025 02:11	WG2515144
2-Hexanone	ND		5.00	1	05/15/2025 02:11	WG2515144
4-Methyl-2-pentanone (MIBK)	ND		5.00	1	05/15/2025 02:11	WG2515144
Acetone	ND		25.0	1	05/15/2025 02:11	WG2515144
Acrylonitrile	ND		0.320	1	05/15/2025 02:11	WG2515144
Benzene	ND		1.00	1	05/15/2025 02:11	WG2515144
Bromochloromethane	ND		1.00	1	05/15/2025 02:11	WG2515144
Bromodichloromethane	ND		1.00	1	05/15/2025 02:11	WG2515144
Bromoform	ND		1.00	1	05/15/2025 02:11	WG2515144
Bromomethane	ND		2.50	1	05/15/2025 02:11	WG2515144
Carbon disulfide	ND		1.00	1	05/15/2025 02:11	WG2515144
Carbon tetrachloride	ND		1.00	1	05/15/2025 02:11	WG2515144
Chlorobenzene	ND		1.00	1	05/15/2025 02:11	WG2515144
Chloroethane	ND	J4	2.50	1	05/15/2025 02:11	WG2515144
Chloroform	ND		1.00	1	05/15/2025 02:11	WG2515144
Chloromethane	ND		1.25	1	05/15/2025 02:11	WG2515144
Dibromochloromethane	ND		1.00	1	05/15/2025 02:11	WG2515144
Dibromomethane	ND		1.00	1	05/15/2025 02:11	WG2515144
Ethylbenzene	ND		1.00	1	05/15/2025 02:11	WG2515144
Iodomethane	ND		10.0	1	05/15/2025 02:11	WG2515144
Methylene Chloride	ND		2.50	1	05/15/2025 02:11	WG2515144
Styrene	ND		1.00	1	05/15/2025 02:11	WG2515144
Tetrachloroethene	ND		1.00	1	05/15/2025 02:11	WG2515144
Toluene	ND		1.00	1	05/15/2025 02:11	WG2515144
Trichloroethene	ND		1.00	1	05/15/2025 02:11	WG2515144
Trichlorofluoromethane	ND		2.50	1	05/15/2025 02:11	WG2515144
Vinyl acetate	ND		5.00	1	05/15/2025 02:11	WG2515144
Vinyl chloride	ND	J4	1.00	1	05/15/2025 02:11	WG2515144
Xylenes, Total	ND		3.00	1	05/15/2025 02:11	WG2515144
cis-1,2-Dichloroethene	ND		1.00	1	05/15/2025 02:11	WG2515144
cis-1,3-Dichloropropene	ND		1.00	1	05/15/2025 02:11	WG2515144
trans-1,2-Dichloroethene	ND		1.00	1	05/15/2025 02:11	WG2515144
trans-1,3-Dichloropropene	ND		1.00	1	05/15/2025 02:11	WG2515144
trans-1,4-Dichloro-2-butene	ND		1.00	1	05/15/2025 02:11	WG2515144
(S) 4-Bromofluorobenzene	*89.8*			*67.0-138*	*05/15/2025 02:11*	WG2515144
(S) Toluene-d8	*97.9*			*75.0-131*	*05/15/2025 02:11*	WG2515144
(S) 1,2-Dichloroethane-d4	*110*			*70.0-130*	*05/15/2025 02:11*	WG2515144

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
Depth to water (DTW) (FROM TOC)	16.53	ftmsl
pH (On Site)	6.42	su
Specific Conductance (on site)	1808	umhos/cm
Temperature (on-site)	10.2	Deg. C
Turbidity (on-site)	0	NTU
Dissolved Oxygen (on-site)	0.5	mg/l
eH/ORP (On Site)	-48.9	mV

Gravimetric Analysis by Method 2540 D-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Suspended Solids	12.8		2.50	1	05/15/2025 18:35	WG2514293

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Alkalinity,Bicarbonate	920		20.0	1	05/13/2025 18:26	WG2514120
Alkalinity,Carbonate	ND		20.0	1	05/13/2025 18:26	WG2514120

Sample Narrative:

L1858066-03 WG2514120: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Chloride	12.0		1.00	1	05/18/2025 01:08	WG2514071
Sulfate	19.9		5.00	1	05/18/2025 01:08	WG2514071

Metals (ICP) by Method 6010C

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Silver	ND		0.0100	1	05/22/2025 12:11	WG2516799
Arsenic	ND		0.0100	1	05/22/2025 12:11	WG2516799
Barium	0.267		0.0200	1	05/22/2025 12:11	WG2516799
Beryllium	ND		0.00400	1	05/22/2025 12:11	WG2516799
Calcium	201		1.00	1	05/22/2025 12:11	WG2516799
Cadmium	ND		0.00500	1	05/22/2025 12:11	WG2516799
Chromium	ND		0.0100	1	05/22/2025 12:11	WG2516799
Copper	ND		0.0100	1	05/22/2025 12:11	WG2516799
Potassium	4.84		1.00	1	05/22/2025 12:11	WG2516799
Magnesium	72.1		1.00	1	05/22/2025 12:11	WG2516799
Sodium	62.4		1.00	1	05/22/2025 12:11	WG2516799
Nickel	0.0145		0.0100	1	05/22/2025 12:11	WG2516799
Lead	ND		0.0100	1	05/22/2025 12:11	WG2516799
Vanadium	ND		0.0200	1	05/22/2025 12:11	WG2516799
Zinc	ND		0.0500	1	05/22/2025 12:11	WG2516799

Metals (ICPMS) by Method 6020A

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Cobalt	0.00220		0.00200	1	05/21/2025 00:30	WG2516887
Antimony	ND		0.00600	1	05/21/2025 00:30	WG2516887
Selenium	ND		0.0100	1	05/21/2025 00:30	WG2516887

Metals (ICPMS) by Method 6020A

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Thallium	ND		0.00200	1	05/21/2025 00:30	WG2516887

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	05/15/2025 02:31	WG2515144
1,2,3-Trichloropropane	ND		0.00580	1	05/15/2025 15:56	WG2515444
1,1,1-Trichloroethane	ND		1.00	1	05/15/2025 02:31	WG2515144
1,2-Dibromo-3-Chloropropane	ND		0.200	1	05/15/2025 15:56	WG2515444
1,1,2,2-Tetrachloroethane	ND		0.300	1	05/15/2025 02:31	WG2515144
1,2-Dibromoethane	ND		0.0500	1	05/15/2025 15:56	WG2515444
1,1,2-Trichloroethane	ND		1.00	1	05/15/2025 02:31	WG2515144
1,1-Dichloroethane	27.0		1.00	1	05/15/2025 02:31	WG2515144
1,1-Dichloroethene	ND		1.00	1	05/15/2025 02:31	WG2515144
1,2-Dichlorobenzene	ND		1.00	1	05/15/2025 02:31	WG2515144
1,2-Dichloroethane	ND		1.00	1	05/15/2025 02:31	WG2515144
1,2-Dichloropropane	1.75		1.00	1	05/15/2025 02:31	WG2515144
1,4-Dichlorobenzene	ND		1.00	1	05/15/2025 02:31	WG2515144
2-Butanone (MEK)	ND		10.0	1	05/15/2025 02:31	WG2515144
2-Hexanone	ND		5.00	1	05/15/2025 02:31	WG2515144
4-Methyl-2-pentanone (MIBK)	ND		5.00	1	05/15/2025 02:31	WG2515144
Acetone	ND		25.0	1	05/15/2025 02:31	WG2515144
Acrylonitrile	ND		0.320	1	05/15/2025 02:31	WG2515144
Benzene	1.42		1.00	1	05/15/2025 02:31	WG2515144
Bromochloromethane	ND		1.00	1	05/15/2025 02:31	WG2515144
Bromodichloromethane	ND		1.00	1	05/15/2025 02:31	WG2515144
Bromoform	ND		1.00	1	05/15/2025 02:31	WG2515144
Bromomethane	ND		2.50	1	05/15/2025 02:31	WG2515144
Carbon disulfide	ND		1.00	1	05/15/2025 02:31	WG2515144
Carbon tetrachloride	ND		1.00	1	05/15/2025 02:31	WG2515144
Chlorobenzene	ND		1.00	1	05/15/2025 02:31	WG2515144
Chloroethane	13.7	C5 J4	2.50	1	05/15/2025 02:31	WG2515144
Chloroform	ND		1.00	1	05/15/2025 02:31	WG2515144
Chloromethane	ND		1.25	1	05/15/2025 02:31	WG2515144
Dibromochloromethane	ND		1.00	1	05/15/2025 02:31	WG2515144
Dibromomethane	ND		1.00	1	05/15/2025 02:31	WG2515144
Ethylbenzene	ND		1.00	1	05/15/2025 02:31	WG2515144
Iodomethane	ND		10.0	1	05/15/2025 02:31	WG2515144
Methylene Chloride	ND		2.50	1	05/15/2025 02:31	WG2515144
Styrene	ND		1.00	1	05/15/2025 02:31	WG2515144
Tetrachloroethene	ND		1.00	1	05/15/2025 02:31	WG2515144
Toluene	ND		1.00	1	05/15/2025 02:31	WG2515144
Trichloroethene	ND		1.00	1	05/15/2025 02:31	WG2515144
Trichlorofluoromethane	ND		2.50	1	05/15/2025 02:31	WG2515144
Vinyl acetate	ND		5.00	1	05/15/2025 02:31	WG2515144
Vinyl chloride	25.1	C5 J4	1.00	1	05/15/2025 02:31	WG2515144
Xylenes, Total	ND		3.00	1	05/15/2025 02:31	WG2515144
cis-1,2-Dichloroethene	30.2		1.00	1	05/15/2025 02:31	WG2515144
cis-1,3-Dichloropropene	ND		1.00	1	05/15/2025 02:31	WG2515144
trans-1,2-Dichloroethene	3.88		1.00	1	05/15/2025 02:31	WG2515144
trans-1,3-Dichloropropene	ND		1.00	1	05/15/2025 02:31	WG2515144
trans-1,4-Dichloro-2-butene	ND		1.00	1	05/15/2025 02:31	WG2515144
(S) 4-Bromofluorobenzene	*90.9*			*67.0-138*	*05/15/2025 02:31*	WG2515144
(S) Toluene-d8	*100*			*75.0-131*	*05/15/2025 02:31*	WG2515144
(S) 1,2-Dichloroethane-d4	*106*			*70.0-130*	*05/15/2025 02:31*	WG2515144

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
Depth to water (DTW) (FROM TOC)	15.92	ftmsl
pH (On Site)	6.64	su
Specific Conductance (on site)	956	umhos/cm
Temperature (on-site)	9.8	Deg. C
Turbidity (on-site)	0.7	NTU
Dissolved Oxygen (on-site)	4.7	mg/l
eH/ORP (On Site)	89	mV

Gravimetric Analysis by Method 2540 D-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Suspended Solids	15.6		2.50	1	05/15/2025 18:35	WG2514293

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Alkalinity,Bicarbonate	472		20.0	1	05/13/2025 18:30	WG2514120
Alkalinity,Carbonate	ND		20.0	1	05/13/2025 18:30	WG2514120

Sample Narrative:

L1858066-04 WG2514120: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Chloride	27.5		1.00	1	05/18/2025 01:21	WG2514071
Sulfate	12.5		5.00	1	05/18/2025 01:21	WG2514071

Metals (ICP) by Method 6010C

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Silver	ND		0.0100	1	05/22/2025 12:13	WG2516799
Arsenic	ND		0.0100	1	05/22/2025 12:13	WG2516799
Barium	0.396		0.0200	1	05/22/2025 12:13	WG2516799
Beryllium	ND		0.00400	1	05/22/2025 12:13	WG2516799
Calcium	128		1.00	1	05/22/2025 12:13	WG2516799
Cadmium	ND		0.00500	1	05/22/2025 12:13	WG2516799
Chromium	ND		0.0100	1	05/22/2025 12:13	WG2516799
Copper	ND		0.0100	1	05/22/2025 12:13	WG2516799
Potassium	2.36		1.00	1	05/22/2025 12:13	WG2516799
Magnesium	42.4		1.00	1	05/22/2025 12:13	WG2516799
Sodium	6.67		1.00	1	05/22/2025 12:13	WG2516799
Nickel	ND		0.0100	1	05/22/2025 12:13	WG2516799
Lead	ND		0.0100	1	05/22/2025 12:13	WG2516799
Vanadium	ND		0.0200	1	05/22/2025 12:13	WG2516799
Zinc	ND		0.0500	1	05/22/2025 12:13	WG2516799

Metals (ICPMS) by Method 6020A

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Cobalt	0.00237		0.00200	1	05/21/2025 00:33	WG2516887
Antimony	ND		0.00600	1	05/21/2025 00:33	WG2516887
Selenium	ND		0.0100	1	05/21/2025 00:33	WG2516887

Metals (ICPMS) by Method 6020A

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Thallium	ND		0.00200	1	05/21/2025 00:33	WG2516887

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	05/15/2025 02:50	WG2515144
1,2,3-Trichloropropane	ND		0.00580	1	05/15/2025 15:34	WG2515444
1,1,1-Trichloroethane	ND		1.00	1	05/15/2025 02:50	WG2515144
1,2-Dibromo-3-Chloropropane	ND		0.200	1	05/15/2025 15:34	WG2515444
1,1,2,2-Tetrachloroethane	ND		0.300	1	05/15/2025 02:50	WG2515144
1,2-Dibromoethane	ND		0.0500	1	05/15/2025 15:34	WG2515444
1,1,2-Trichloroethane	ND		1.00	1	05/15/2025 02:50	WG2515144
1,1-Dichloroethane	ND		1.00	1	05/15/2025 02:50	WG2515144
1,1-Dichloroethene	ND		1.00	1	05/15/2025 02:50	WG2515144
1,2-Dichlorobenzene	ND		1.00	1	05/15/2025 02:50	WG2515144
1,2-Dichloroethane	ND		1.00	1	05/15/2025 02:50	WG2515144
1,2-Dichloropropane	ND		1.00	1	05/15/2025 02:50	WG2515144
1,4-Dichlorobenzene	ND		1.00	1	05/15/2025 02:50	WG2515144
2-Butanone (MEK)	ND		10.0	1	05/15/2025 02:50	WG2515144
2-Hexanone	ND		5.00	1	05/15/2025 02:50	WG2515144
4-Methyl-2-pentanone (MIBK)	ND		5.00	1	05/15/2025 02:50	WG2515144
Acetone	ND	C5	25.0	1	05/15/2025 02:50	WG2515144
Acrylonitrile	ND		0.320	1	05/15/2025 02:50	WG2515144
Benzene	ND		1.00	1	05/15/2025 02:50	WG2515144
Bromochloromethane	ND		1.00	1	05/15/2025 02:50	WG2515144
Bromodichloromethane	ND		1.00	1	05/15/2025 02:50	WG2515144
Bromoform	ND		1.00	1	05/15/2025 02:50	WG2515144
Bromomethane	ND		2.50	1	05/15/2025 02:50	WG2515144
Carbon disulfide	ND		1.00	1	05/15/2025 02:50	WG2515144
Carbon tetrachloride	ND		1.00	1	05/15/2025 02:50	WG2515144
Chlorobenzene	ND		1.00	1	05/15/2025 02:50	WG2515144
Chloroethane	ND	C5 J4	2.50	1	05/15/2025 02:50	WG2515144
Chloroform	ND		1.00	1	05/15/2025 02:50	WG2515144
Chloromethane	ND		1.25	1	05/15/2025 02:50	WG2515144
Dibromochloromethane	ND		1.00	1	05/15/2025 02:50	WG2515144
Dibromomethane	ND		1.00	1	05/15/2025 02:50	WG2515144
Ethylbenzene	ND		1.00	1	05/15/2025 02:50	WG2515144
Iodomethane	ND		10.0	1	05/15/2025 02:50	WG2515144
Methylene Chloride	ND		2.50	1	05/15/2025 02:50	WG2515144
Styrene	ND		1.00	1	05/15/2025 02:50	WG2515144
Tetrachloroethene	ND		1.00	1	05/15/2025 02:50	WG2515144
Toluene	ND		1.00	1	05/15/2025 02:50	WG2515144
Trichloroethene	ND		1.00	1	05/15/2025 02:50	WG2515144
Trichlorofluoromethane	ND		2.50	1	05/15/2025 02:50	WG2515144
Vinyl acetate	ND		5.00	1	05/15/2025 02:50	WG2515144
Vinyl chloride	ND	C5 J4	1.00	1	05/15/2025 02:50	WG2515144
Xylenes, Total	ND		3.00	1	05/15/2025 02:50	WG2515144
cis-1,2-Dichloroethene	ND		1.00	1	05/15/2025 02:50	WG2515144
cis-1,3-Dichloropropene	ND		1.00	1	05/15/2025 02:50	WG2515144
trans-1,2-Dichloroethene	ND		1.00	1	05/15/2025 02:50	WG2515144
trans-1,3-Dichloropropene	ND		1.00	1	05/15/2025 02:50	WG2515144
trans-1,4-Dichloro-2-butene	ND		1.00	1	05/15/2025 02:50	WG2515144
(S) 4-Bromofluorobenzene	*90.0*			*67.0-138*	*05/15/2025 02:50*	WG2515144
(S) Toluene-d8	*98.8*			*75.0-131*	*05/15/2025 02:50*	WG2515144
(S) 1,2-Dichloroethane-d4	*110*			*70.0-130*	*05/15/2025 02:50*	WG2515144

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
Depth to water (DTW) (FROM TOC)	4.13	ftmsl
pH (On Site)	7.19	su
Specific Conductance (on site)	1328	umhos/cm
Temperature (on-site)	7.2	Deg. C
Turbidity (on-site)	1.5	NTU
Dissolved Oxygen (on-site)	43	mg/l
eH/ORP (On Site)	-1	mV

Gravimetric Analysis by Method 2540 D-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Suspended Solids	15.1		2.50	1	05/15/2025 18:35	WG2514293

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Alkalinity,Bicarbonate	441		20.0	1	05/13/2025 18:33	WG2514120
Alkalinity,Carbonate	ND		20.0	1	05/13/2025 18:33	WG2514120

Sample Narrative:

L1858066-05 WG2514120: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Chloride	76.4		1.00	1	05/18/2025 01:34	WG2514071
Sulfate	189		5.00	10	05/18/2025 01:47	WG2514071

Metals (ICP) by Method 6010C

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Silver	ND		0.0100	1	05/22/2025 12:18	WG2516799
Arsenic	ND		0.0100	1	05/22/2025 12:18	WG2516799
Barium	0.208		0.0200	1	05/22/2025 12:18	WG2516799
Beryllium	ND		0.00400	1	05/22/2025 12:18	WG2516799
Calcium	169		1.00	1	05/22/2025 12:18	WG2516799
Cadmium	ND		0.00500	1	05/22/2025 12:18	WG2516799
Chromium	ND		0.0100	1	05/22/2025 12:18	WG2516799
Copper	ND		0.0100	1	05/22/2025 12:18	WG2516799
Potassium	1.10		1.00	1	05/22/2025 12:18	WG2516799
Magnesium	61.6		1.00	1	05/22/2025 12:18	WG2516799
Sodium	34.8		1.00	1	05/22/2025 12:18	WG2516799
Nickel	0.0386		0.0100	1	05/22/2025 12:18	WG2516799
Lead	ND		0.0100	1	05/22/2025 12:18	WG2516799
Vanadium	ND		0.0200	1	05/22/2025 12:18	WG2516799
Zinc	ND		0.0500	1	05/22/2025 12:18	WG2516799

Metals (ICPMS) by Method 6020A

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Cobalt	ND		0.00200	1	05/21/2025 00:43	WG2516887
Antimony	ND		0.00600	1	05/21/2025 00:43	WG2516887
Selenium	ND		0.0100	1	05/21/2025 00:43	WG2516887

Metals (ICPMS) by Method 6020A

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Thallium	ND		0.00200	1	05/21/2025 00:43	WG2516887

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	05/15/2025 03:10	WG2515144
1,2,3-Trichloropropane	ND		0.00580	1	05/15/2025 15:13	WG2515444
1,1,1-Trichloroethane	ND		1.00	1	05/15/2025 03:10	WG2515144
1,2-Dibromo-3-Chloropropane	ND		0.200	1	05/15/2025 15:13	WG2515444
1,1,2,2-Tetrachloroethane	ND		0.300	1	05/15/2025 03:10	WG2515144
1,2-Dibromoethane	ND		0.0500	1	05/15/2025 15:13	WG2515444
1,1,2-Trichloroethane	ND		1.00	1	05/15/2025 03:10	WG2515144
1,1-Dichloroethane	ND		1.00	1	05/15/2025 03:10	WG2515144
1,1-Dichloroethene	ND		1.00	1	05/15/2025 03:10	WG2515144
1,2-Dichlorobenzene	ND		1.00	1	05/15/2025 03:10	WG2515144
1,2-Dichloroethane	ND		1.00	1	05/15/2025 03:10	WG2515144
1,2-Dichloropropane	ND		1.00	1	05/15/2025 03:10	WG2515144
1,4-Dichlorobenzene	ND		1.00	1	05/15/2025 03:10	WG2515144
2-Butanone (MEK)	ND		10.0	1	05/15/2025 03:10	WG2515144
2-Hexanone	ND		5.00	1	05/15/2025 03:10	WG2515144
4-Methyl-2-pentanone (MIBK)	ND		5.00	1	05/15/2025 03:10	WG2515144
Acetone	ND		25.0	1	05/15/2025 03:10	WG2515144
Acrylonitrile	ND		0.320	1	05/15/2025 03:10	WG2515144
Benzene	ND		1.00	1	05/15/2025 03:10	WG2515144
Bromochloromethane	ND		1.00	1	05/15/2025 03:10	WG2515144
Bromodichloromethane	ND		1.00	1	05/15/2025 03:10	WG2515144
Bromoform	ND		1.00	1	05/15/2025 03:10	WG2515144
Bromomethane	ND		2.50	1	05/15/2025 03:10	WG2515144
Carbon disulfide	ND		1.00	1	05/15/2025 03:10	WG2515144
Carbon tetrachloride	ND		1.00	1	05/15/2025 03:10	WG2515144
Chlorobenzene	ND		1.00	1	05/15/2025 03:10	WG2515144
Chloroethane	ND	C5 J4	2.50	1	05/15/2025 03:10	WG2515144
Chloroform	ND		1.00	1	05/15/2025 03:10	WG2515144
Chloromethane	ND		1.25	1	05/15/2025 03:10	WG2515144
Dibromochloromethane	ND		1.00	1	05/15/2025 03:10	WG2515144
Dibromomethane	ND		1.00	1	05/15/2025 03:10	WG2515144
Ethylbenzene	ND		1.00	1	05/15/2025 03:10	WG2515144
Iodomethane	ND		10.0	1	05/15/2025 03:10	WG2515144
Methylene Chloride	ND		2.50	1	05/15/2025 03:10	WG2515144
Styrene	ND		1.00	1	05/15/2025 03:10	WG2515144
Tetrachloroethene	ND		1.00	1	05/15/2025 03:10	WG2515144
Toluene	ND		1.00	1	05/15/2025 03:10	WG2515144
Trichloroethene	ND		1.00	1	05/15/2025 03:10	WG2515144
Trichlorofluoromethane	ND		2.50	1	05/15/2025 03:10	WG2515144
Vinyl acetate	ND		5.00	1	05/15/2025 03:10	WG2515144
Vinyl chloride	ND	J4	1.00	1	05/15/2025 03:10	WG2515144
Xylenes, Total	ND		3.00	1	05/15/2025 03:10	WG2515144
cis-1,2-Dichloroethene	ND		1.00	1	05/15/2025 03:10	WG2515144
cis-1,3-Dichloropropene	ND		1.00	1	05/15/2025 03:10	WG2515144
trans-1,2-Dichloroethene	ND		1.00	1	05/15/2025 03:10	WG2515144
trans-1,3-Dichloropropene	ND		1.00	1	05/15/2025 03:10	WG2515144
trans-1,4-Dichloro-2-butene	ND		1.00	1	05/15/2025 03:10	WG2515144
(S) 4-Bromofluorobenzene	*90.8*			*67.0-138*	*05/15/2025 03:10*	WG2515144
(S) Toluene-d8	*97.3*			*75.0-131*	*05/15/2025 03:10*	WG2515144
(S) 1,2-Dichloroethane-d4	*110*			*70.0-130*	*05/15/2025 03:10*	WG2515144

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
Depth to water (DTW) (FROM TOC)	25.18	ftmsl
pH (On Site)	6.85	su
Specific Conductance (on site)	927	umhos/cm
Temperature (on-site)	11.9	Deg. C
Turbidity (on-site)	0	NTU
Dissolved Oxygen (on-site)	4.6	mg/l
eH/ORP (On Site)	71.2	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	05/15/2025 18:35	WG2514293

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Alkalinity,Bicarbonate	371		20.0	1	05/13/2025 18:37	WG2514120
Alkalinity,Carbonate	ND		20.0	1	05/13/2025 18:37	WG2514120

Sample Narrative:

L1858066-06 WG2514120: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Chloride	33.4		1.00	1	05/18/2025 01:59	WG2514071
Sulfate	80.8		5.00	1	05/18/2025 01:59	WG2514071

Metals (ICP) by Method 6010C

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Silver	ND		0.0100	1	05/22/2025 12:20	WG2516799
Arsenic	ND		0.0100	1	05/22/2025 12:20	WG2516799
Barium	0.296		0.0200	1	05/22/2025 12:20	WG2516799
Beryllium	ND		0.00400	1	05/22/2025 12:20	WG2516799
Calcium	126		1.00	1	05/22/2025 12:20	WG2516799
Cadmium	ND		0.00500	1	05/22/2025 12:20	WG2516799
Chromium	ND		0.0100	1	05/22/2025 12:20	WG2516799
Copper	ND		0.0100	1	05/22/2025 12:20	WG2516799
Potassium	3.32		1.00	1	05/22/2025 12:20	WG2516799
Magnesium	45.4		1.00	1	05/22/2025 12:20	WG2516799
Sodium	8.62		1.00	1	05/22/2025 12:20	WG2516799
Nickel	ND		0.0100	1	05/22/2025 12:20	WG2516799
Lead	ND		0.0100	1	05/22/2025 12:20	WG2516799
Vanadium	ND		0.0200	1	05/22/2025 12:20	WG2516799
Zinc	ND		0.0500	1	05/22/2025 12:20	WG2516799

Metals (ICPMS) by Method 6020A

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Cobalt	ND		0.00200	1	05/21/2025 00:46	WG2516887
Antimony	ND		0.00600	1	05/21/2025 00:46	WG2516887
Selenium	ND		0.0100	1	05/21/2025 00:46	WG2516887

Metals (ICPMS) by Method 6020A

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Thallium	ND		0.00200	1	05/21/2025 00:46	WG2516887

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	05/15/2025 03:30	WG2515144
1,2,3-Trichloropropane	ND		0.00580	1	05/15/2025 14:51	WG2515444
1,1,1-Trichloroethane	ND		1.00	1	05/15/2025 03:30	WG2515144
1,2-Dibromo-3-Chloropropane	ND		0.200	1	05/15/2025 14:51	WG2515444
1,1,2,2-Tetrachloroethane	ND		0.300	1	05/15/2025 03:30	WG2515144
1,2-Dibromoethane	ND		0.0500	1	05/15/2025 14:51	WG2515444
1,1,2-Trichloroethane	ND		1.00	1	05/15/2025 03:30	WG2515144
1,1-Dichloroethane	ND		1.00	1	05/15/2025 03:30	WG2515144
1,1-Dichloroethene	ND		1.00	1	05/15/2025 03:30	WG2515144
1,2-Dichlorobenzene	ND		1.00	1	05/15/2025 03:30	WG2515144
1,2-Dichloroethane	ND		1.00	1	05/15/2025 03:30	WG2515144
1,2-Dichloropropane	ND		1.00	1	05/15/2025 03:30	WG2515144
1,4-Dichlorobenzene	ND		1.00	1	05/15/2025 03:30	WG2515144
2-Butanone (MEK)	ND		10.0	1	05/15/2025 03:30	WG2515144
2-Hexanone	ND		5.00	1	05/15/2025 03:30	WG2515144
4-Methyl-2-pentanone (MIBK)	ND		5.00	1	05/15/2025 03:30	WG2515144
Acetone	ND		25.0	1	05/15/2025 03:30	WG2515144
Acrylonitrile	ND		0.320	1	05/15/2025 03:30	WG2515144
Benzene	ND		1.00	1	05/15/2025 03:30	WG2515144
Bromochloromethane	ND		1.00	1	05/15/2025 03:30	WG2515144
Bromodichloromethane	ND		1.00	1	05/15/2025 03:30	WG2515144
Bromoform	ND		1.00	1	05/15/2025 03:30	WG2515144
Bromomethane	ND		2.50	1	05/15/2025 03:30	WG2515144
Carbon disulfide	ND		1.00	1	05/15/2025 03:30	WG2515144
Carbon tetrachloride	ND		1.00	1	05/15/2025 03:30	WG2515144
Chlorobenzene	ND		1.00	1	05/15/2025 03:30	WG2515144
Chloroethane	ND	J4	2.50	1	05/15/2025 03:30	WG2515144
Chloroform	ND		1.00	1	05/15/2025 03:30	WG2515144
Chloromethane	ND		1.25	1	05/15/2025 03:30	WG2515144
Dibromochloromethane	ND		1.00	1	05/15/2025 03:30	WG2515144
Dibromomethane	ND		1.00	1	05/15/2025 03:30	WG2515144
Ethylbenzene	ND		1.00	1	05/15/2025 03:30	WG2515144
Iodomethane	ND		10.0	1	05/15/2025 03:30	WG2515144
Methylene Chloride	ND		2.50	1	05/15/2025 03:30	WG2515144
Styrene	ND		1.00	1	05/15/2025 03:30	WG2515144
Tetrachloroethene	ND		1.00	1	05/15/2025 03:30	WG2515144
Toluene	ND		1.00	1	05/15/2025 03:30	WG2515144
Trichloroethene	ND		1.00	1	05/15/2025 03:30	WG2515144
Trichlorofluoromethane	ND		2.50	1	05/15/2025 03:30	WG2515144
Vinyl acetate	ND		5.00	1	05/15/2025 03:30	WG2515144
Vinyl chloride	ND	J4	1.00	1	05/15/2025 03:30	WG2515144
Xylenes, Total	ND		3.00	1	05/15/2025 03:30	WG2515144
cis-1,2-Dichloroethene	ND		1.00	1	05/15/2025 03:30	WG2515144
cis-1,3-Dichloropropene	ND		1.00	1	05/15/2025 03:30	WG2515144
trans-1,2-Dichloroethene	ND		1.00	1	05/15/2025 03:30	WG2515144
trans-1,3-Dichloropropene	ND		1.00	1	05/15/2025 03:30	WG2515144
trans-1,4-Dichloro-2-butene	ND		1.00	1	05/15/2025 03:30	WG2515144
(S) 4-Bromofluorobenzene	*89.3*			*67.0-138*	*05/15/2025 03:30*	WG2515144
(S) Toluene-d8	*98.3*			*75.0-131*	*05/15/2025 03:30*	WG2515144
(S) 1,2-Dichloroethane-d4	*110*			*70.0-130*	*05/15/2025 03:30*	WG2515144

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
Depth to water (DTW) (FROM TOC)	12.22	ftmsl
pH (On Site)	6.47	su
Specific Conductance (on site)	1047	umhos/cm
Temperature (on-site)	8.2	Deg. C
Turbidity (on-site)	0.2	NTU
Dissolved Oxygen (on-site)	2.2	mg/l
eH/ORP (On Site)	-50	mV

Gravimetric Analysis by Method 2540 D-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Suspended Solids	23.8		2.50	1	05/15/2025 18:35	WG2514293

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Alkalinity,Bicarbonate	599		20.0	1	05/13/2025 18:41	WG2514120
Alkalinity,Carbonate	ND		20.0	1	05/13/2025 18:41	WG2514120

Sample Narrative:

L1858066-07 WG2514120: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Chloride	8.72		1.00	1	05/18/2025 02:25	WG2514071
Sulfate	5.47		5.00	1	05/18/2025 02:25	WG2514071

Metals (ICP) by Method 6010C

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Silver	ND		0.0100	1	05/22/2025 12:22	WG2516799
Arsenic	0.0108		0.0100	1	05/22/2025 12:22	WG2516799
Barium	1.60		0.0200	1	05/22/2025 12:22	WG2516799
Beryllium	ND		0.00400	1	05/22/2025 12:22	WG2516799
Calcium	150		1.00	1	05/22/2025 12:22	WG2516799
Cadmium	ND		0.00500	1	05/22/2025 12:22	WG2516799
Chromium	ND		0.0100	1	05/22/2025 12:22	WG2516799
Copper	ND		0.0100	1	05/22/2025 12:22	WG2516799
Potassium	2.03		1.00	1	05/22/2025 12:22	WG2516799
Magnesium	47.2		1.00	1	05/22/2025 12:22	WG2516799
Sodium	12.4		1.00	1	05/22/2025 12:22	WG2516799
Nickel	0.0136		0.0100	1	05/22/2025 12:22	WG2516799
Lead	ND		0.0100	1	05/22/2025 12:22	WG2516799
Vanadium	ND		0.0200	1	05/22/2025 12:22	WG2516799
Zinc	ND		0.0500	1	05/22/2025 12:22	WG2516799

Metals (ICPMS) by Method 6020A

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Cobalt	0.0113		0.00200	1	05/21/2025 00:49	WG2516887
Antimony	ND		0.00600	1	05/21/2025 00:49	WG2516887
Selenium	ND		0.0100	1	05/21/2025 00:49	WG2516887

Metals (ICPMS) by Method 6020A

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Thallium	ND		0.00200	1	05/21/2025 00:49	WG2516887

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	05/15/2025 03:50	WG2515144
1,2,3-Trichloropropane	ND		0.00580	1	05/15/2025 14:30	WG2515444
1,1,1-Trichloroethane	ND		1.00	1	05/15/2025 03:50	WG2515144
1,2-Dibromo-3-Chloropropane	ND		0.200	1	05/15/2025 14:30	WG2515444
1,1,2,2-Tetrachloroethane	ND		0.300	1	05/15/2025 03:50	WG2515144
1,2-Dibromoethane	ND		0.0500	1	05/15/2025 14:30	WG2515444
1,1,2-Trichloroethane	ND		1.00	1	05/15/2025 03:50	WG2515144
1,1-Dichloroethane	ND		1.00	1	05/15/2025 03:50	WG2515144
1,1-Dichloroethene	ND		1.00	1	05/15/2025 03:50	WG2515144
1,2-Dichlorobenzene	ND		1.00	1	05/15/2025 03:50	WG2515144
1,2-Dichloroethane	ND		1.00	1	05/15/2025 03:50	WG2515144
1,2-Dichloropropane	ND		1.00	1	05/15/2025 03:50	WG2515144
1,4-Dichlorobenzene	ND		1.00	1	05/15/2025 03:50	WG2515144
2-Butanone (MEK)	ND		10.0	1	05/15/2025 03:50	WG2515144
2-Hexanone	ND		5.00	1	05/15/2025 03:50	WG2515144
4-Methyl-2-pentanone (MIBK)	ND		5.00	1	05/15/2025 03:50	WG2515144
Acetone	ND		25.0	1	05/15/2025 03:50	WG2515144
Acrylonitrile	ND		0.320	1	05/15/2025 03:50	WG2515144
Benzene	ND		1.00	1	05/15/2025 03:50	WG2515144
Bromochloromethane	ND		1.00	1	05/15/2025 03:50	WG2515144
Bromodichloromethane	ND		1.00	1	05/15/2025 03:50	WG2515144
Bromoform	ND		1.00	1	05/15/2025 03:50	WG2515144
Bromomethane	ND		2.50	1	05/15/2025 03:50	WG2515144
Carbon disulfide	ND		1.00	1	05/15/2025 03:50	WG2515144
Carbon tetrachloride	ND		1.00	1	05/15/2025 03:50	WG2515144
Chlorobenzene	ND		1.00	1	05/15/2025 03:50	WG2515144
Chloroethane	ND	J4	2.50	1	05/15/2025 03:50	WG2515144
Chloroform	ND		1.00	1	05/15/2025 03:50	WG2515144
Chloromethane	ND		1.25	1	05/15/2025 03:50	WG2515144
Dibromochloromethane	ND		1.00	1	05/15/2025 03:50	WG2515144
Dibromomethane	ND		1.00	1	05/15/2025 03:50	WG2515144
Ethylbenzene	ND		1.00	1	05/15/2025 03:50	WG2515144
Iodomethane	ND		10.0	1	05/15/2025 03:50	WG2515144
Methylene Chloride	ND		2.50	1	05/15/2025 03:50	WG2515144
Styrene	ND		1.00	1	05/15/2025 03:50	WG2515144
Tetrachloroethene	ND		1.00	1	05/15/2025 03:50	WG2515144
Toluene	ND		1.00	1	05/15/2025 03:50	WG2515144
Trichloroethene	3.02		1.00	1	05/15/2025 03:50	WG2515144
Trichlorofluoromethane	ND		2.50	1	05/15/2025 03:50	WG2515144
Vinyl acetate	ND		5.00	1	05/15/2025 03:50	WG2515144
Vinyl chloride	ND	J4	1.00	1	05/15/2025 03:50	WG2515144
Xylenes, Total	ND		3.00	1	05/15/2025 03:50	WG2515144
cis-1,2-Dichloroethene	1.35		1.00	1	05/15/2025 03:50	WG2515144
cis-1,3-Dichloropropene	ND		1.00	1	05/15/2025 03:50	WG2515144
trans-1,2-Dichloroethene	ND		1.00	1	05/15/2025 03:50	WG2515144
trans-1,3-Dichloropropene	ND		1.00	1	05/15/2025 03:50	WG2515144
trans-1,4-Dichloro-2-butene	ND		1.00	1	05/15/2025 03:50	WG2515144
(S) 4-Bromofluorobenzene	*90.4*			*67.0-138*	*05/15/2025 03:50*	WG2515144
(S) Toluene-d8	*99.6*			*75.0-131*	*05/15/2025 03:50*	WG2515144
(S) 1,2-Dichloroethane-d4	*108*			*70.0-130*	*05/15/2025 03:50*	WG2515144

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
Depth to water (DTW) (FROM TOC)	21.48	ftmsl
pH (On Site)	7.4	su
Specific Conductance (on site)	1602	umhos/cm
Temperature (on-site)	9.1	Deg. C
Turbidity (on-site)	9.1	NTU
Dissolved Oxygen (on-site)	4.5	mg/l
eH/ORP (On Site)	-168.1	mV

Gravimetric Analysis by Method 2540 D-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Suspended Solids	8.20		2.50	1	05/15/2025 18:35	WG2514293

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Alkalinity,Bicarbonate	557		20.0	1	05/13/2025 18:44	WG2514120
Alkalinity,Carbonate	ND		20.0	1	05/13/2025 18:44	WG2514120

Sample Narrative:

L1858066-08 WG2514120: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Chloride	8.30		1.00	1	05/18/2025 03:03	WG2514071
Sulfate	388		5.00	10	05/18/2025 03:16	WG2514071

Metals (ICP) by Method 6010C

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Silver	ND		0.0100	1	05/22/2025 12:23	WG2516799
Arsenic	ND		0.0100	1	05/22/2025 12:23	WG2516799
Barium	0.0437		0.0200	1	05/22/2025 12:23	WG2516799
Beryllium	ND		0.00400	1	05/22/2025 12:23	WG2516799
Calcium	258		1.00	1	05/22/2025 12:23	WG2516799
Cadmium	ND		0.00500	1	05/22/2025 12:23	WG2516799
Chromium	ND		0.0100	1	05/22/2025 12:23	WG2516799
Copper	ND		0.0100	1	05/22/2025 12:23	WG2516799
Potassium	7.42		1.00	1	05/22/2025 12:23	WG2516799
Magnesium	70.1		1.00	1	05/22/2025 12:23	WG2516799
Sodium	15.6		1.00	1	05/22/2025 12:23	WG2516799
Nickel	ND		0.0100	1	05/22/2025 12:23	WG2516799
Lead	ND		0.0100	1	05/22/2025 12:23	WG2516799
Vanadium	ND		0.0200	1	05/22/2025 12:23	WG2516799
Zinc	ND		0.0500	1	05/22/2025 12:23	WG2516799

Metals (ICPMS) by Method 6020A

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Cobalt	0.00402		0.00200	1	05/21/2025 00:52	WG2516887
Antimony	ND		0.00600	1	05/21/2025 00:52	WG2516887
Selenium	ND		0.0100	1	05/21/2025 00:52	WG2516887

Metals (ICPMS) by Method 6020A

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Thallium	ND		0.00200	1	05/21/2025 00:52	WG2516887

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	05/15/2025 04:10	WG2515144
1,2,3-Trichloropropane	ND		0.00580	1	05/15/2025 14:08	WG2515444
1,1,1-Trichloroethane	ND		1.00	1	05/15/2025 04:10	WG2515144
1,2-Dibromo-3-Chloropropane	ND		0.200	1	05/15/2025 14:08	WG2515444
1,1,2,2-Tetrachloroethane	ND		0.300	1	05/15/2025 04:10	WG2515144
1,2-Dibromoethane	ND		0.0500	1	05/15/2025 14:08	WG2515444
1,1,2-Trichloroethane	ND		1.00	1	05/15/2025 04:10	WG2515144
1,1-Dichloroethane	ND		1.00	1	05/15/2025 04:10	WG2515144
1,1-Dichloroethene	ND		1.00	1	05/15/2025 04:10	WG2515144
1,2-Dichlorobenzene	ND		1.00	1	05/15/2025 04:10	WG2515144
1,2-Dichloroethane	ND		1.00	1	05/15/2025 04:10	WG2515144
1,2-Dichloropropane	ND		1.00	1	05/15/2025 04:10	WG2515144
1,4-Dichlorobenzene	ND		1.00	1	05/15/2025 04:10	WG2515144
2-Butanone (MEK)	ND		10.0	1	05/15/2025 04:10	WG2515144
2-Hexanone	ND		5.00	1	05/15/2025 04:10	WG2515144
4-Methyl-2-pentanone (MIBK)	ND		5.00	1	05/15/2025 04:10	WG2515144
Acetone	ND		25.0	1	05/15/2025 04:10	WG2515144
Acrylonitrile	ND		0.320	1	05/15/2025 04:10	WG2515144
Benzene	ND		1.00	1	05/15/2025 04:10	WG2515144
Bromochloromethane	ND		1.00	1	05/15/2025 04:10	WG2515144
Bromodichloromethane	ND		1.00	1	05/15/2025 04:10	WG2515144
Bromoform	ND		1.00	1	05/15/2025 04:10	WG2515144
Bromomethane	ND		2.50	1	05/15/2025 04:10	WG2515144
Carbon disulfide	ND		1.00	1	05/15/2025 04:10	WG2515144
Carbon tetrachloride	ND		1.00	1	05/15/2025 04:10	WG2515144
Chlorobenzene	ND		1.00	1	05/15/2025 04:10	WG2515144
Chloroethane	ND	J4	2.50	1	05/15/2025 04:10	WG2515144
Chloroform	ND		1.00	1	05/15/2025 04:10	WG2515144
Chloromethane	ND		1.25	1	05/15/2025 04:10	WG2515144
Dibromochloromethane	ND		1.00	1	05/15/2025 04:10	WG2515144
Dibromomethane	ND		1.00	1	05/15/2025 04:10	WG2515144
Ethylbenzene	ND		1.00	1	05/15/2025 04:10	WG2515144
Iodomethane	ND		10.0	1	05/15/2025 04:10	WG2515144
Methylene Chloride	ND		2.50	1	05/15/2025 04:10	WG2515144
Styrene	ND		1.00	1	05/15/2025 04:10	WG2515144
Tetrachloroethene	ND		1.00	1	05/15/2025 04:10	WG2515144
Toluene	ND		1.00	1	05/15/2025 04:10	WG2515144
Trichloroethene	ND		1.00	1	05/15/2025 04:10	WG2515144
Trichlorofluoromethane	ND		2.50	1	05/15/2025 04:10	WG2515144
Vinyl acetate	ND		5.00	1	05/15/2025 04:10	WG2515144
Vinyl chloride	ND	J4	1.00	1	05/15/2025 04:10	WG2515144
Xylenes, Total	ND		3.00	1	05/15/2025 04:10	WG2515144
cis-1,2-Dichloroethene	ND		1.00	1	05/15/2025 04:10	WG2515144
cis-1,3-Dichloropropene	ND		1.00	1	05/15/2025 04:10	WG2515144
trans-1,2-Dichloroethene	ND		1.00	1	05/15/2025 04:10	WG2515144
trans-1,3-Dichloropropene	ND		1.00	1	05/15/2025 04:10	WG2515144
trans-1,4-Dichloro-2-butene	ND		1.00	1	05/15/2025 04:10	WG2515144
(S) 4-Bromofluorobenzene	*92.8*			*67.0-138*	*05/15/2025 04:10*	WG2515144
(S) Toluene-d8	*99.5*			*75.0-131*	*05/15/2025 04:10*	WG2515144
(S) 1,2-Dichloroethane-d4	*111*			*70.0-130*	*05/15/2025 04:10*	WG2515144

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
Depth to water (DTW) (FROM TOC)	20.44	ftmsl
pH (On Site)	6.93	su
Specific Conductance (on site)	1417	umhos/cm
Temperature (on-site)	7.8	Deg. C
Turbidity (on-site)	0	NTU
Dissolved Oxygen (on-site)	2.1	mg/l
eH/ORP (On Site)	141.3	mV

Gravimetric Analysis by Method 2540 D-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Suspended Solids	2.60		2.50	1	05/15/2025 18:35	WG2514293

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Alkalinity,Bicarbonate	345		20.0	1	05/13/2025 18:48	WG2514120
Alkalinity,Carbonate	ND		20.0	1	05/13/2025 18:48	WG2514120

Sample Narrative:

L1858066-09 WG2514120: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Chloride	95.9		1.00	5	05/18/2025 03:29	WG2514071
Sulfate	292		5.00	5	05/18/2025 03:29	WG2514071

Metals (ICP) by Method 6010C

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Silver	ND		0.0100	1	05/22/2025 12:25	WG2516799
Arsenic	ND		0.0100	1	05/22/2025 12:25	WG2516799
Barium	0.0426		0.0200	1	05/22/2025 12:25	WG2516799
Beryllium	ND		0.00400	1	05/22/2025 12:25	WG2516799
Calcium	223		1.00	1	05/22/2025 12:25	WG2516799
Cadmium	ND		0.00500	1	05/22/2025 12:25	WG2516799
Chromium	ND		0.0100	1	05/22/2025 12:25	WG2516799
Copper	ND		0.0100	1	05/22/2025 12:25	WG2516799
Potassium	5.42		1.00	1	05/22/2025 12:25	WG2516799
Magnesium	55.9		1.00	1	05/22/2025 12:25	WG2516799
Sodium	10.3		1.00	1	05/22/2025 12:25	WG2516799
Nickel	0.0713		0.0100	1	05/22/2025 12:25	WG2516799
Lead	ND		0.0100	1	05/22/2025 12:25	WG2516799
Vanadium	ND		0.0200	1	05/22/2025 12:25	WG2516799
Zinc	ND		0.0500	1	05/22/2025 12:25	WG2516799

Metals (ICPMS) by Method 6020A

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Cobalt	ND		0.00200	1	05/21/2025 00:55	WG2516887
Antimony	ND		0.00600	1	05/21/2025 00:55	WG2516887
Selenium	ND		0.0100	1	05/21/2025 00:55	WG2516887

Metals (ICPMS) by Method 6020A

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Thallium	ND		0.00200	1	05/21/2025 00:55	WG2516887

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	05/15/2025 04:29	WG2515144
1,2,3-Trichloropropane	ND		0.00580	1	05/15/2025 13:46	WG2515444
1,1,1-Trichloroethane	ND		1.00	1	05/15/2025 04:29	WG2515144
1,2-Dibromo-3-Chloropropane	ND		0.200	1	05/15/2025 13:46	WG2515444
1,1,2,2-Tetrachloroethane	ND		0.300	1	05/15/2025 04:29	WG2515144
1,2-Dibromoethane	ND		0.0500	1	05/15/2025 13:46	WG2515444
1,1,2-Trichloroethane	ND		1.00	1	05/15/2025 04:29	WG2515144
1,1-Dichloroethane	ND		1.00	1	05/15/2025 04:29	WG2515144
1,1-Dichloroethene	ND		1.00	1	05/15/2025 04:29	WG2515144
1,2-Dichlorobenzene	ND		1.00	1	05/15/2025 04:29	WG2515144
1,2-Dichloroethane	ND		1.00	1	05/15/2025 04:29	WG2515144
1,2-Dichloropropane	ND		1.00	1	05/15/2025 04:29	WG2515144
1,4-Dichlorobenzene	ND		1.00	1	05/15/2025 04:29	WG2515144
2-Butanone (MEK)	ND		10.0	1	05/15/2025 04:29	WG2515144
2-Hexanone	ND		5.00	1	05/15/2025 04:29	WG2515144
4-Methyl-2-pentanone (MIBK)	ND		5.00	1	05/15/2025 04:29	WG2515144
Acetone	ND		25.0	1	05/15/2025 04:29	WG2515144
Acrylonitrile	ND		0.320	1	05/15/2025 04:29	WG2515144
Benzene	ND		1.00	1	05/15/2025 04:29	WG2515144
Bromochloromethane	ND		1.00	1	05/15/2025 04:29	WG2515144
Bromodichloromethane	ND		1.00	1	05/15/2025 04:29	WG2515144
Bromoform	ND		1.00	1	05/15/2025 04:29	WG2515144
Bromomethane	ND		2.50	1	05/15/2025 04:29	WG2515144
Carbon disulfide	ND		1.00	1	05/15/2025 04:29	WG2515144
Carbon tetrachloride	ND		1.00	1	05/15/2025 04:29	WG2515144
Chlorobenzene	ND		1.00	1	05/15/2025 04:29	WG2515144
Chloroethane	ND	C5 J4	2.50	1	05/15/2025 04:29	WG2515144
Chloroform	ND		1.00	1	05/15/2025 04:29	WG2515144
Chloromethane	ND		1.25	1	05/15/2025 04:29	WG2515144
Dibromochloromethane	ND		1.00	1	05/15/2025 04:29	WG2515144
Dibromomethane	ND		1.00	1	05/15/2025 04:29	WG2515144
Ethylbenzene	ND		1.00	1	05/15/2025 04:29	WG2515144
Iodomethane	ND		10.0	1	05/15/2025 04:29	WG2515144
Methylene Chloride	ND		2.50	1	05/15/2025 04:29	WG2515144
Styrene	ND		1.00	1	05/15/2025 04:29	WG2515144
Tetrachloroethene	ND		1.00	1	05/15/2025 04:29	WG2515144
Toluene	ND		1.00	1	05/15/2025 04:29	WG2515144
Trichloroethene	ND		1.00	1	05/15/2025 04:29	WG2515144
Trichlorofluoromethane	ND		2.50	1	05/15/2025 04:29	WG2515144
Vinyl acetate	ND		5.00	1	05/15/2025 04:29	WG2515144
Vinyl chloride	ND	J4	1.00	1	05/15/2025 04:29	WG2515144
Xylenes, Total	ND		3.00	1	05/15/2025 04:29	WG2515144
cis-1,2-Dichloroethene	ND		1.00	1	05/15/2025 04:29	WG2515144
cis-1,3-Dichloropropene	ND		1.00	1	05/15/2025 04:29	WG2515144
trans-1,2-Dichloroethene	ND		1.00	1	05/15/2025 04:29	WG2515144
trans-1,3-Dichloropropene	ND		1.00	1	05/15/2025 04:29	WG2515144
trans-1,4-Dichloro-2-butene	ND		1.00	1	05/15/2025 04:29	WG2515144
(S) 4-Bromofluorobenzene	*91.3*			*67.0-138*	*05/15/2025 04:29*	WG2515144
(S) Toluene-d8	*101*			*75.0-131*	*05/15/2025 04:29*	WG2515144
(S) 1,2-Dichloroethane-d4	*112*			*70.0-130*	*05/15/2025 04:29*	WG2515144

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
Depth to water (DTW) (FROM TOC)	20.38	ftmsl
pH (On Site)	6.43	su
Specific Conductance (on site)	3749	umhos/cm
Temperature (on-site)	10.8	Deg. C
Turbidity (on-site)	3.4	NTU
Dissolved Oxygen (on-site)	0.4	mg/l
eH/ORP (On Site)	-53.2	mV

Gravimetric Analysis by Method 2540 D-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Suspended Solids	76.0		2.50	1	05/14/2025 09:45	WG2514432

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Alkalinity,Bicarbonate	556		20.0	1	05/14/2025 12:46	WG2514124
Alkalinity,Carbonate	ND		20.0	1	05/14/2025 12:46	WG2514124

Sample Narrative:

L1858066-10 WG2514124: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Chloride	753		2.60	50	05/18/2025 04:07	WG2514071
Sulfate	13.0		5.00	5	05/18/2025 03:55	WG2514071

Sample Narrative:

L1858066-10 WG2514071: Dilution due to matrix impact on instrumentation at lower dilution

Metals (ICP) by Method 6010C

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Silver	ND		0.0100	1	05/22/2025 12:27	WG2516799
Arsenic	0.0534		0.0100	1	05/22/2025 12:27	WG2516799
Barium	1.32		0.0200	1	05/22/2025 12:27	WG2516799
Beryllium	ND		0.00400	1	05/22/2025 12:27	WG2516799
Calcium	318		1.00	1	05/22/2025 12:27	WG2516799
Cadmium	ND		0.00500	1	05/22/2025 12:27	WG2516799
Chromium	ND		0.0100	1	05/22/2025 12:27	WG2516799
Copper	ND		0.0100	1	05/22/2025 12:27	WG2516799
Potassium	2.74		1.00	1	05/22/2025 12:27	WG2516799
Magnesium	119		1.00	1	05/22/2025 12:27	WG2516799
Sodium	172		1.00	1	05/22/2025 12:27	WG2516799
Nickel	0.278		0.0100	1	05/22/2025 12:27	WG2516799
Lead	ND		0.0100	1	05/22/2025 12:27	WG2516799
Vanadium	ND		0.0200	1	05/22/2025 12:27	WG2516799
Zinc	ND		0.0500	1	05/22/2025 12:27	WG2516799

Metals (ICPMS) by Method 6020A

Analyte	Result mg/l	Qualifier	RL mg/l	Dilution	Analysis date / time	Batch
Cobalt	0.0230		0.00200	1	05/21/2025 00:58	WG2516887
Antimony	ND		0.00600	1	05/21/2025 00:58	WG2516887
Selenium	ND		0.0100	1	05/21/2025 00:58	WG2516887
Thallium	ND		0.00200	1	05/21/2025 00:58	WG2516887

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	05/15/2025 04:49	WG2515144
1,2,3-Trichloropropane	ND		0.00580	1	05/15/2025 13:25	WG2515444
1,1,1-Trichloroethane	ND		1.00	1	05/15/2025 04:49	WG2515144
1,2-Dibromo-3-Chloropropane	ND		0.200	1	05/15/2025 13:25	WG2515444
1,1,2,2-Tetrachloroethane	ND		0.300	1	05/15/2025 04:49	WG2515144
1,2-Dibromoethane	ND		0.0500	1	05/15/2025 13:25	WG2515444
1,1,2-Trichloroethane	ND		1.00	1	05/15/2025 04:49	WG2515144
1,1-Dichloroethane	ND		1.00	1	05/15/2025 04:49	WG2515144
1,1-Dichloroethene	ND		1.00	1	05/15/2025 04:49	WG2515144
1,2-Dichlorobenzene	ND		1.00	1	05/15/2025 04:49	WG2515144
1,2-Dichloroethane	ND		1.00	1	05/15/2025 04:49	WG2515144
1,2-Dichloropropane	ND		1.00	1	05/15/2025 04:49	WG2515144
1,4-Dichlorobenzene	ND		1.00	1	05/15/2025 04:49	WG2515144
2-Butanone (MEK)	ND		10.0	1	05/15/2025 04:49	WG2515144
2-Hexanone	ND		5.00	1	05/15/2025 04:49	WG2515144
4-Methyl-2-pentanone (MIBK)	ND		5.00	1	05/15/2025 04:49	WG2515144
Acetone	ND		25.0	1	05/15/2025 04:49	WG2515144
Acrylonitrile	ND		0.320	1	05/15/2025 04:49	WG2515144
Benzene	ND		1.00	1	05/15/2025 04:49	WG2515144
Bromochloromethane	ND		1.00	1	05/15/2025 04:49	WG2515144
Bromodichloromethane	ND		1.00	1	05/15/2025 04:49	WG2515144
Bromoform	ND		1.00	1	05/15/2025 04:49	WG2515144
Bromomethane	ND		2.50	1	05/15/2025 04:49	WG2515144
Carbon disulfide	ND		1.00	1	05/15/2025 04:49	WG2515144
Carbon tetrachloride	ND		1.00	1	05/15/2025 04:49	WG2515144
Chlorobenzene	ND		1.00	1	05/15/2025 04:49	WG2515144
Chloroethane	3.41	C5 J4	2.50	1	05/15/2025 04:49	WG2515144
Chloroform	ND		1.00	1	05/15/2025 04:49	WG2515144
Chloromethane	ND		1.25	1	05/15/2025 04:49	WG2515144
Dibromochloromethane	ND		1.00	1	05/15/2025 04:49	WG2515144
Dibromomethane	ND		1.00	1	05/15/2025 04:49	WG2515144
Ethylbenzene	ND		1.00	1	05/15/2025 04:49	WG2515144
Iodomethane	ND		10.0	1	05/15/2025 04:49	WG2515144
Methylene Chloride	ND		2.50	1	05/15/2025 04:49	WG2515144
Styrene	ND		1.00	1	05/15/2025 04:49	WG2515144
Tetrachloroethene	ND		1.00	1	05/15/2025 04:49	WG2515144
Toluene	ND		1.00	1	05/15/2025 04:49	WG2515144
Trichloroethene	ND		1.00	1	05/15/2025 04:49	WG2515144
Trichlorofluoromethane	ND		2.50	1	05/15/2025 04:49	WG2515144
Vinyl acetate	ND		5.00	1	05/15/2025 04:49	WG2515144
Vinyl chloride	ND	C5 J4	1.00	1	05/15/2025 04:49	WG2515144
Xylenes, Total	ND		3.00	1	05/15/2025 04:49	WG2515144
cis-1,2-Dichloroethene	ND		1.00	1	05/15/2025 04:49	WG2515144
cis-1,3-Dichloropropene	ND		1.00	1	05/15/2025 04:49	WG2515144
trans-1,2-Dichloroethene	ND		1.00	1	05/15/2025 04:49	WG2515144
trans-1,3-Dichloropropene	ND		1.00	1	05/15/2025 04:49	WG2515144
trans-1,4-Dichloro-2-butene	ND		1.00	1	05/15/2025 04:49	WG2515144
(S) 4-Bromofluorobenzene	*91.1*			*67.0-138*	*05/15/2025 04:49*	WG2515144

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
(S) Toluene-d8	*97.9*			*75.0-131*	*05/15/2025 04:49*	WG2515144
(S) 1,2-Dichloroethane-d4	*109*			*70.0-130*	*05/15/2025 04:49*	WG2515144

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
Depth to water (DTW) (FROM TOC)	12.78	ftmsl
pH (On Site)	6.66	su
Specific Conductance (on site)	1356	umhos/cm
Temperature (on-site)	9.3	Deg. C
Turbidity (on-site)	0	NTU
Dissolved Oxygen (on-site)	0.4	mg/l
eH/ORP (On Site)	57.8	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	05/15/2025 18:35	WG2514293

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Alkalinity,Bicarbonate	455		20.0	1	05/14/2025 12:51	WG2514124
Alkalinity,Carbonate	ND		20.0	1	05/14/2025 12:51	WG2514124

Sample Narrative:

L1858066-11 WG2514124: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Chloride	59.8		1.00	1	05/18/2025 04:20	WG2514071
Sulfate	104		5.00	10	05/18/2025 04:33	WG2514071

Metals (ICP) by Method 6010C

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Silver	ND		0.0100	1	05/22/2025 12:01	WG2516799
Arsenic	ND		0.0100	1	05/22/2025 12:01	WG2516799
Barium	0.216		0.0200	1	05/22/2025 12:01	WG2516799
Beryllium	ND		0.00400	1	05/22/2025 12:01	WG2516799
Calcium	159	V	1.00	1	05/22/2025 12:01	WG2516799
Cadmium	ND		0.00500	1	05/22/2025 12:01	WG2516799
Chromium	ND		0.0100	1	05/22/2025 12:01	WG2516799
Copper	ND		0.0100	1	05/22/2025 12:01	WG2516799
Potassium	1.11		1.00	1	05/22/2025 12:01	WG2516799
Magnesium	48.3		1.00	1	05/22/2025 12:01	WG2516799
Sodium	24.3	O1	1.00	1	05/22/2025 12:01	WG2516799
Nickel	0.0317		0.0100	1	05/22/2025 12:01	WG2516799
Lead	ND		0.0100	1	05/22/2025 12:01	WG2516799
Vanadium	ND		0.0200	1	05/22/2025 12:01	WG2516799
Zinc	ND		0.0500	1	05/22/2025 12:01	WG2516799

Metals (ICPMS) by Method 6020A

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Cobalt	ND		0.00200	1	05/21/2025 01:02	WG2516887
Antimony	ND		0.00600	1	05/21/2025 01:02	WG2516887
Selenium	ND		0.0100	1	05/21/2025 01:02	WG2516887

Metals (ICPMS) by Method 6020A

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Thallium	ND		0.00200	1	05/21/2025 01:02	WG2516887

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	05/15/2025 05:09	WG2515144
1,2,3-Trichloropropane	ND		0.00580	1	05/15/2025 13:03	WG2515444
1,1,1-Trichloroethane	ND		1.00	1	05/15/2025 05:09	WG2515144
1,2-Dibromo-3-Chloropropane	ND		0.200	1	05/15/2025 13:03	WG2515444
1,1,2,2-Tetrachloroethane	ND		0.300	1	05/15/2025 05:09	WG2515144
1,2-Dibromoethane	ND		0.0500	1	05/15/2025 13:03	WG2515444
1,1,2-Trichloroethane	ND		1.00	1	05/15/2025 05:09	WG2515144
1,1-Dichloroethane	1.82		1.00	1	05/15/2025 05:09	WG2515144
1,1-Dichloroethene	ND		1.00	1	05/15/2025 05:09	WG2515144
1,2-Dichlorobenzene	ND		1.00	1	05/15/2025 05:09	WG2515144
1,2-Dichloroethane	ND		1.00	1	05/15/2025 05:09	WG2515144
1,2-Dichloropropane	ND		1.00	1	05/15/2025 05:09	WG2515144
1,4-Dichlorobenzene	ND		1.00	1	05/15/2025 05:09	WG2515144
2-Butanone (MEK)	ND		10.0	1	05/15/2025 05:09	WG2515144
2-Hexanone	ND		5.00	1	05/15/2025 05:09	WG2515144
4-Methyl-2-pentanone (MIBK)	ND		5.00	1	05/15/2025 05:09	WG2515144
Acetone	ND		25.0	1	05/15/2025 05:09	WG2515144
Acrylonitrile	ND		0.320	1	05/15/2025 05:09	WG2515144
Benzene	ND		1.00	1	05/15/2025 05:09	WG2515144
Bromochloromethane	ND		1.00	1	05/15/2025 05:09	WG2515144
Bromodichloromethane	ND		1.00	1	05/15/2025 05:09	WG2515144
Bromoform	ND		1.00	1	05/15/2025 05:09	WG2515144
Bromomethane	ND		2.50	1	05/15/2025 05:09	WG2515144
Carbon disulfide	ND		1.00	1	05/15/2025 05:09	WG2515144
Carbon tetrachloride	ND		1.00	1	05/15/2025 05:09	WG2515144
Chlorobenzene	ND		1.00	1	05/15/2025 05:09	WG2515144
Chloroethane	ND	C5 J4	2.50	1	05/15/2025 05:09	WG2515144
Chloroform	ND		1.00	1	05/15/2025 05:09	WG2515144
Chloromethane	ND		1.25	1	05/15/2025 05:09	WG2515144
Dibromochloromethane	ND		1.00	1	05/15/2025 05:09	WG2515144
Dibromomethane	ND		1.00	1	05/15/2025 05:09	WG2515144
Ethylbenzene	ND		1.00	1	05/15/2025 05:09	WG2515144
Iodomethane	ND		10.0	1	05/15/2025 05:09	WG2515144
Methylene Chloride	ND		2.50	1	05/15/2025 05:09	WG2515144
Styrene	ND		1.00	1	05/15/2025 05:09	WG2515144
Tetrachloroethene	ND		1.00	1	05/15/2025 05:09	WG2515144
Toluene	ND		1.00	1	05/15/2025 05:09	WG2515144
Trichloroethene	ND		1.00	1	05/15/2025 05:09	WG2515144
Trichlorofluoromethane	ND		2.50	1	05/15/2025 05:09	WG2515144
Vinyl acetate	ND		5.00	1	05/15/2025 05:09	WG2515144
Vinyl chloride	ND	C5 J4	1.00	1	05/15/2025 05:09	WG2515144
Xylenes, Total	ND		3.00	1	05/15/2025 05:09	WG2515144
cis-1,2-Dichloroethene	1.31		1.00	1	05/15/2025 05:09	WG2515144
cis-1,3-Dichloropropene	ND		1.00	1	05/15/2025 05:09	WG2515144
trans-1,2-Dichloroethene	ND		1.00	1	05/15/2025 05:09	WG2515144
trans-1,3-Dichloropropene	ND		1.00	1	05/15/2025 05:09	WG2515144
trans-1,4-Dichloro-2-butene	ND		1.00	1	05/15/2025 05:09	WG2515144
(S) 4-Bromofluorobenzene	*90.1*			*67.0-138*	*05/15/2025 05:09*	WG2515144
(S) Toluene-d8	*97.9*			*75.0-131*	*05/15/2025 05:09*	WG2515144
(S) 1,2-Dichloroethane-d4	*110*			*70.0-130*	*05/15/2025 05:09*	WG2515144

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
Depth to water (DTW) (FROM TOC)	13.88	ftmsl
pH (On Site)	7.34	su
Specific Conductance (on site)	864	umhos/cm
Temperature (on-site)	8.4	Deg. C
Turbidity (on-site)	9	NTU
Dissolved Oxygen (on-site)	7.8	mg/l
eH/ORP (On Site)	72.7	mV

Gravimetric Analysis by Method 2540 D-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Suspended Solids	11.1		2.50	1	05/15/2025 18:35	WG2514293

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Alkalinity,Bicarbonate	404		20.0	1	05/14/2025 12:57	WG2514124
Alkalinity,Carbonate	ND		20.0	1	05/14/2025 12:57	WG2514124

Sample Narrative:

L1858066-12 WG2514124: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Chloride	22.8		1.00	1	05/18/2025 04:46	WG2514071
Sulfate	7.32		5.00	1	05/18/2025 04:46	WG2514071

Metals (ICP) by Method 6010C

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Silver	ND		0.0100	1	05/22/2025 12:29	WG2516799
Arsenic	ND		0.0100	1	05/22/2025 12:29	WG2516799
Barium	0.275		0.0200	1	05/22/2025 12:29	WG2516799
Beryllium	ND		0.00400	1	05/22/2025 12:29	WG2516799
Calcium	123		1.00	1	05/22/2025 12:29	WG2516799
Cadmium	ND		0.00500	1	05/22/2025 12:29	WG2516799
Chromium	ND		0.0100	1	05/22/2025 12:29	WG2516799
Copper	ND		0.0100	1	05/22/2025 12:29	WG2516799
Potassium	ND		1.00	1	05/22/2025 12:29	WG2516799
Magnesium	38.6		1.00	1	05/22/2025 12:29	WG2516799
Sodium	7.17		1.00	1	05/22/2025 12:29	WG2516799
Nickel	ND		0.0100	1	05/22/2025 12:29	WG2516799
Lead	ND		0.0100	1	05/22/2025 12:29	WG2516799
Vanadium	ND		0.0200	1	05/22/2025 12:29	WG2516799
Zinc	ND		0.0500	1	05/22/2025 12:29	WG2516799

Metals (ICPMS) by Method 6020A

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Cobalt	ND		0.00200	1	05/21/2025 01:05	WG2516887
Antimony	ND		0.00600	1	05/21/2025 01:05	WG2516887
Selenium	ND		0.0100	1	05/21/2025 01:05	WG2516887

Metals (ICPMS) by Method 6020A

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Thallium	ND		0.00200	1	05/21/2025 01:05	WG2516887

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	05/15/2025 05:29	WG2515144
1,2,3-Trichloropropane	ND		0.00580	1	05/15/2025 12:42	WG2515444
1,1,1-Trichloroethane	ND		1.00	1	05/15/2025 05:29	WG2515144
1,2-Dibromo-3-Chloropropane	ND		0.200	1	05/15/2025 12:42	WG2515444
1,1,2,2-Tetrachloroethane	ND		0.300	1	05/15/2025 05:29	WG2515144
1,2-Dibromoethane	ND		0.0500	1	05/15/2025 12:42	WG2515444
1,1,2-Trichloroethane	ND		1.00	1	05/15/2025 05:29	WG2515144
1,1-Dichloroethane	ND		1.00	1	05/15/2025 05:29	WG2515144
1,1-Dichloroethene	ND		1.00	1	05/15/2025 05:29	WG2515144
1,2-Dichlorobenzene	ND		1.00	1	05/15/2025 05:29	WG2515144
1,2-Dichloroethane	ND		1.00	1	05/15/2025 05:29	WG2515144
1,2-Dichloropropane	ND		1.00	1	05/15/2025 05:29	WG2515144
1,4-Dichlorobenzene	ND		1.00	1	05/15/2025 05:29	WG2515144
2-Butanone (MEK)	ND		10.0	1	05/15/2025 05:29	WG2515144
2-Hexanone	ND		5.00	1	05/15/2025 05:29	WG2515144
4-Methyl-2-pentanone (MIBK)	ND		5.00	1	05/15/2025 05:29	WG2515144
Acetone	ND		25.0	1	05/15/2025 05:29	WG2515144
Acrylonitrile	ND		0.320	1	05/15/2025 05:29	WG2515144
Benzene	ND		1.00	1	05/15/2025 05:29	WG2515144
Bromochloromethane	ND		1.00	1	05/15/2025 05:29	WG2515144
Bromodichloromethane	ND		1.00	1	05/15/2025 05:29	WG2515144
Bromoform	ND		1.00	1	05/15/2025 05:29	WG2515144
Bromomethane	ND		2.50	1	05/15/2025 05:29	WG2515144
Carbon disulfide	ND		1.00	1	05/15/2025 05:29	WG2515144
Carbon tetrachloride	ND		1.00	1	05/15/2025 05:29	WG2515144
Chlorobenzene	ND		1.00	1	05/15/2025 05:29	WG2515144
Chloroethane	ND	J4	2.50	1	05/15/2025 05:29	WG2515144
Chloroform	ND		1.00	1	05/15/2025 05:29	WG2515144
Chloromethane	ND		1.25	1	05/15/2025 05:29	WG2515144
Dibromochloromethane	ND		1.00	1	05/15/2025 05:29	WG2515144
Dibromomethane	ND		1.00	1	05/15/2025 05:29	WG2515144
Ethylbenzene	ND		1.00	1	05/15/2025 05:29	WG2515144
Iodomethane	ND		10.0	1	05/15/2025 05:29	WG2515144
Methylene Chloride	ND		2.50	1	05/15/2025 05:29	WG2515144
Styrene	ND		1.00	1	05/15/2025 05:29	WG2515144
Tetrachloroethene	ND		1.00	1	05/15/2025 05:29	WG2515144
Toluene	ND		1.00	1	05/15/2025 05:29	WG2515144
Trichloroethene	ND		1.00	1	05/15/2025 05:29	WG2515144
Trichlorofluoromethane	ND		2.50	1	05/15/2025 05:29	WG2515144
Vinyl acetate	ND		5.00	1	05/15/2025 05:29	WG2515144
Vinyl chloride	ND	J4	1.00	1	05/15/2025 05:29	WG2515144
Xylenes, Total	ND		3.00	1	05/15/2025 05:29	WG2515144
cis-1,2-Dichloroethene	ND		1.00	1	05/15/2025 05:29	WG2515144
cis-1,3-Dichloropropene	ND		1.00	1	05/15/2025 05:29	WG2515144
trans-1,2-Dichloroethene	ND		1.00	1	05/15/2025 05:29	WG2515144
trans-1,3-Dichloropropene	ND		1.00	1	05/15/2025 05:29	WG2515144
trans-1,4-Dichloro-2-butene	ND		1.00	1	05/15/2025 05:29	WG2515144
(S) 4-Bromofluorobenzene	*90.4*			*67.0-138*	*05/15/2025 05:29*	WG2515144
(S) Toluene-d8	*99.7*			*75.0-131*	*05/15/2025 05:29*	WG2515144
(S) 1,2-Dichloroethane-d4	*109*			*70.0-130*	*05/15/2025 05:29*	WG2515144

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
Depth to water (DTW) (FROM TOC)	18.62	ftmsl
pH (On Site)	7.53	su
Specific Conductance (on site)	710	umhos/cm
Temperature (on-site)	9.2	Deg. C
Turbidity (on-site)	5.9	NTU
Dissolved Oxygen (on-site)	2.3	mg/l
eH/ORP (On Site)	80.8	mV

Gravimetric Analysis by Method 2540 D-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Suspended Solids	17.8		2.50	1	05/15/2025 18:35	WG2514293

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Alkalinity,Bicarbonate	320		20.0	1	05/14/2025 13:05	WG2514124
Alkalinity,Carbonate	ND		20.0	1	05/14/2025 13:05	WG2514124

Sample Narrative:

L1858066-13 WG2514124: Endpoint pH 4.5 Headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Chloride	9.59		1.00	1	05/18/2025 05:24	WG2514071
Sulfate	20.7		5.00	1	05/18/2025 05:24	WG2514071

Metals (ICP) by Method 6010C

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Silver	ND		0.0100	1	05/22/2025 12:30	WG2516799
Arsenic	ND		0.0100	1	05/22/2025 12:30	WG2516799
Barium	0.221		0.0200	1	05/22/2025 12:30	WG2516799
Beryllium	ND		0.00400	1	05/22/2025 12:30	WG2516799
Calcium	101		1.00	1	05/22/2025 12:30	WG2516799
Cadmium	ND		0.00500	1	05/22/2025 12:30	WG2516799
Chromium	ND		0.0100	1	05/22/2025 12:30	WG2516799
Copper	ND		0.0100	1	05/22/2025 12:30	WG2516799
Potassium	2.06		1.00	1	05/22/2025 12:30	WG2516799
Magnesium	36.4		1.00	1	05/22/2025 12:30	WG2516799
Sodium	4.86		1.00	1	05/22/2025 12:30	WG2516799
Nickel	ND		0.0100	1	05/22/2025 12:30	WG2516799
Lead	ND		0.0100	1	05/22/2025 12:30	WG2516799
Vanadium	ND		0.0200	1	05/22/2025 12:30	WG2516799
Zinc	ND		0.0500	1	05/22/2025 12:30	WG2516799

Metals (ICPMS) by Method 6020A

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Cobalt	ND		0.00200	1	05/21/2025 01:08	WG2516887
Antimony	ND		0.00600	1	05/21/2025 01:08	WG2516887
Selenium	ND		0.0100	1	05/21/2025 01:08	WG2516887

Metals (ICPMS) by Method 6020A

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Thallium	ND		0.00200	1	05/21/2025 01:08	WG2516887

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	05/15/2025 05:48	WG2515144
1,2,3-Trichloropropane	ND		0.00580	1	05/15/2025 12:20	WG2515444
1,1,1-Trichloroethane	ND		1.00	1	05/15/2025 05:48	WG2515144
1,2-Dibromo-3-Chloropropane	ND		0.200	1	05/15/2025 12:20	WG2515444
1,1,2,2-Tetrachloroethane	ND		0.300	1	05/15/2025 05:48	WG2515144
1,2-Dibromoethane	ND		0.0500	1	05/15/2025 12:20	WG2515444
1,1,2-Trichloroethane	ND		1.00	1	05/15/2025 05:48	WG2515144
1,1-Dichloroethane	ND		1.00	1	05/15/2025 05:48	WG2515144
1,1-Dichloroethene	ND		1.00	1	05/15/2025 05:48	WG2515144
1,2-Dichlorobenzene	ND		1.00	1	05/15/2025 05:48	WG2515144
1,2-Dichloroethane	ND		1.00	1	05/15/2025 05:48	WG2515144
1,2-Dichloropropane	ND		1.00	1	05/15/2025 05:48	WG2515144
1,4-Dichlorobenzene	ND		1.00	1	05/15/2025 05:48	WG2515144
2-Butanone (MEK)	ND		10.0	1	05/15/2025 05:48	WG2515144
2-Hexanone	ND		5.00	1	05/15/2025 05:48	WG2515144
4-Methyl-2-pentanone (MIBK)	ND		5.00	1	05/15/2025 05:48	WG2515144
Acetone	ND		25.0	1	05/15/2025 05:48	WG2515144
Acrylonitrile	ND		0.320	1	05/15/2025 05:48	WG2515144
Benzene	ND		1.00	1	05/15/2025 05:48	WG2515144
Bromochloromethane	ND		1.00	1	05/15/2025 05:48	WG2515144
Bromodichloromethane	ND		1.00	1	05/15/2025 05:48	WG2515144
Bromoform	ND		1.00	1	05/15/2025 05:48	WG2515144
Bromomethane	ND		2.50	1	05/15/2025 05:48	WG2515144
Carbon disulfide	ND		1.00	1	05/15/2025 05:48	WG2515144
Carbon tetrachloride	ND		1.00	1	05/15/2025 05:48	WG2515144
Chlorobenzene	ND		1.00	1	05/15/2025 05:48	WG2515144
Chloroethane	ND	J4	2.50	1	05/15/2025 05:48	WG2515144
Chloroform	ND		1.00	1	05/15/2025 05:48	WG2515144
Chloromethane	ND		1.25	1	05/15/2025 05:48	WG2515144
Dibromochloromethane	ND		1.00	1	05/15/2025 05:48	WG2515144
Dibromomethane	ND		1.00	1	05/15/2025 05:48	WG2515144
Ethylbenzene	ND		1.00	1	05/15/2025 05:48	WG2515144
Iodomethane	ND		10.0	1	05/15/2025 05:48	WG2515144
Methylene Chloride	ND		2.50	1	05/15/2025 05:48	WG2515144
Styrene	ND		1.00	1	05/15/2025 05:48	WG2515144
Tetrachloroethene	ND		1.00	1	05/15/2025 05:48	WG2515144
Toluene	ND		1.00	1	05/15/2025 05:48	WG2515144
Trichloroethene	ND		1.00	1	05/15/2025 05:48	WG2515144
Trichlorofluoromethane	ND		2.50	1	05/15/2025 05:48	WG2515144
Vinyl acetate	ND		5.00	1	05/15/2025 05:48	WG2515144
Vinyl chloride	ND	J4	1.00	1	05/15/2025 05:48	WG2515144
Xylenes, Total	ND		3.00	1	05/15/2025 05:48	WG2515144
cis-1,2-Dichloroethene	ND		1.00	1	05/15/2025 05:48	WG2515144
cis-1,3-Dichloropropene	ND		1.00	1	05/15/2025 05:48	WG2515144
trans-1,2-Dichloroethene	ND		1.00	1	05/15/2025 05:48	WG2515144
trans-1,3-Dichloropropene	ND		1.00	1	05/15/2025 05:48	WG2515144
trans-1,4-Dichloro-2-butene	ND		1.00	1	05/15/2025 05:48	WG2515144
(S) 4-Bromofluorobenzene	*89.8*			*67.0-138*	*05/15/2025 05:48*	WG2515144
(S) Toluene-d8	*98.1*			*75.0-131*	*05/15/2025 05:48*	WG2515144
(S) 1,2-Dichloroethane-d4	*111*			*70.0-130*	*05/15/2025 05:48*	WG2515144

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	05/15/2025 01:12	WG2515144
1,2,3-Trichloropropane	ND		0.00580	1	05/15/2025 11:58	WG2515444
1,1,1-Trichloroethane	ND		1.00	1	05/15/2025 01:12	WG2515144
1,2-Dibromo-3-Chloropropane	ND		0.200	1	05/15/2025 11:58	WG2515444
1,1,2,2-Tetrachloroethane	ND		0.300	1	05/15/2025 01:12	WG2515144
1,2-Dibromoethane	ND		0.0500	1	05/15/2025 11:58	WG2515444
1,1,2-Trichloroethane	ND		1.00	1	05/15/2025 01:12	WG2515144
1,1-Dichloroethane	ND		1.00	1	05/15/2025 01:12	WG2515144
1,1-Dichloroethene	ND		1.00	1	05/15/2025 01:12	WG2515144
1,2-Dichlorobenzene	ND		1.00	1	05/15/2025 01:12	WG2515144
1,2-Dichloroethane	ND		1.00	1	05/15/2025 01:12	WG2515144
1,2-Dichloropropane	ND		1.00	1	05/15/2025 01:12	WG2515144
1,4-Dichlorobenzene	ND		1.00	1	05/15/2025 01:12	WG2515144
2-Butanone (MEK)	ND		10.0	1	05/15/2025 01:12	WG2515144
2-Hexanone	ND		5.00	1	05/15/2025 01:12	WG2515144
4-Methyl-2-pentanone (MIBK)	ND		5.00	1	05/15/2025 01:12	WG2515144
Acetone	29.5	C5	25.0	1	05/15/2025 01:12	WG2515144
Acrylonitrile	ND		0.320	1	05/15/2025 01:12	WG2515144
Benzene	ND		1.00	1	05/15/2025 01:12	WG2515144
Bromochloromethane	ND		1.00	1	05/15/2025 01:12	WG2515144
Bromodichloromethane	ND		1.00	1	05/15/2025 01:12	WG2515144
Bromoform	ND		1.00	1	05/15/2025 01:12	WG2515144
Bromomethane	ND		2.50	1	05/15/2025 01:12	WG2515144
Carbon disulfide	ND		1.00	1	05/15/2025 01:12	WG2515144
Carbon tetrachloride	ND		1.00	1	05/15/2025 01:12	WG2515144
Chlorobenzene	ND		1.00	1	05/15/2025 01:12	WG2515144
Chloroethane	ND	J4	2.50	1	05/15/2025 01:12	WG2515144
Chloroform	ND		1.00	1	05/15/2025 01:12	WG2515144
Chloromethane	ND		1.25	1	05/15/2025 01:12	WG2515144
Dibromochloromethane	ND		1.00	1	05/15/2025 01:12	WG2515144
Dibromomethane	ND		1.00	1	05/15/2025 01:12	WG2515144
Ethylbenzene	ND		1.00	1	05/15/2025 01:12	WG2515144
Iodomethane	ND		10.0	1	05/15/2025 01:12	WG2515144
Methylene Chloride	ND		2.50	1	05/15/2025 01:12	WG2515144
Styrene	ND		1.00	1	05/15/2025 01:12	WG2515144
Tetrachloroethene	ND		1.00	1	05/15/2025 01:12	WG2515144
Toluene	ND		1.00	1	05/15/2025 01:12	WG2515144
Trichloroethene	ND		1.00	1	05/15/2025 01:12	WG2515144
Trichlorofluoromethane	ND		2.50	1	05/15/2025 01:12	WG2515144
Vinyl acetate	ND		5.00	1	05/15/2025 01:12	WG2515144
Vinyl chloride	ND	J4	1.00	1	05/15/2025 01:12	WG2515144
Xylenes, Total	ND		3.00	1	05/15/2025 01:12	WG2515144
cis-1,2-Dichloroethene	ND		1.00	1	05/15/2025 01:12	WG2515144
cis-1,3-Dichloropropene	ND		1.00	1	05/15/2025 01:12	WG2515144
trans-1,2-Dichloroethene	ND		1.00	1	05/15/2025 01:12	WG2515144
trans-1,3-Dichloropropene	ND		1.00	1	05/15/2025 01:12	WG2515144
trans-1,4-Dichloro-2-butene	ND		1.00	1	05/15/2025 01:12	WG2515144
(S) 4-Bromofluorobenzene	*89.3*			*67.0-138*	*05/15/2025 01:12*	WG2515144
(S) Toluene-d8	*97.3*			*75.0-131*	*05/15/2025 01:12*	WG2515144
(S) 1,2-Dichloroethane-d4	*109*			*70.0-130*	*05/15/2025 01:12*	WG2515144

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	05/15/2025 00:52	WG2515144
1,2,3-Trichloropropane	ND		0.00580	1	05/15/2025 11:37	WG2515444
1,1,1-Trichloroethane	ND		1.00	1	05/15/2025 00:52	WG2515144
1,2-Dibromo-3-Chloropropane	ND		0.200	1	05/15/2025 11:37	WG2515444
1,1,2,2-Tetrachloroethane	ND		0.300	1	05/15/2025 00:52	WG2515144
1,2-Dibromoethane	ND		0.0500	1	05/15/2025 11:37	WG2515444
1,1,2-Trichloroethane	ND		1.00	1	05/15/2025 00:52	WG2515144
1,1-Dichloroethane	ND		1.00	1	05/15/2025 00:52	WG2515144
1,1-Dichloroethene	ND		1.00	1	05/15/2025 00:52	WG2515144
1,2-Dichlorobenzene	ND		1.00	1	05/15/2025 00:52	WG2515144
1,2-Dichloroethane	ND		1.00	1	05/15/2025 00:52	WG2515144
1,2-Dichloropropane	ND		1.00	1	05/15/2025 00:52	WG2515144
1,4-Dichlorobenzene	ND		1.00	1	05/15/2025 00:52	WG2515144
2-Butanone (MEK)	ND		10.0	1	05/15/2025 00:52	WG2515144
2-Hexanone	ND		5.00	1	05/15/2025 00:52	WG2515144
4-Methyl-2-pentanone (MIBK)	ND		5.00	1	05/15/2025 00:52	WG2515144
Acetone	ND		25.0	1	05/15/2025 00:52	WG2515144
Acrylonitrile	ND		0.320	1	05/15/2025 00:52	WG2515144
Benzene	ND		1.00	1	05/15/2025 00:52	WG2515144
Bromochloromethane	ND		1.00	1	05/15/2025 00:52	WG2515144
Bromodichloromethane	ND		1.00	1	05/15/2025 00:52	WG2515144
Bromoform	ND		1.00	1	05/15/2025 00:52	WG2515144
Bromomethane	ND		2.50	1	05/15/2025 00:52	WG2515144
Carbon disulfide	ND		1.00	1	05/15/2025 00:52	WG2515144
Carbon tetrachloride	ND		1.00	1	05/15/2025 00:52	WG2515144
Chlorobenzene	ND		1.00	1	05/15/2025 00:52	WG2515144
Chloroethane	ND	J4	2.50	1	05/15/2025 00:52	WG2515144
Chloroform	ND		1.00	1	05/15/2025 00:52	WG2515144
Chloromethane	ND		1.25	1	05/15/2025 00:52	WG2515144
Dibromochloromethane	ND		1.00	1	05/15/2025 00:52	WG2515144
Dibromomethane	ND		1.00	1	05/15/2025 00:52	WG2515144
Ethylbenzene	ND		1.00	1	05/15/2025 00:52	WG2515144
Iodomethane	ND		10.0	1	05/15/2025 00:52	WG2515144
Methylene Chloride	ND		2.50	1	05/15/2025 00:52	WG2515144
Styrene	ND		1.00	1	05/15/2025 00:52	WG2515144
Tetrachloroethene	ND		1.00	1	05/15/2025 00:52	WG2515144
Toluene	ND		1.00	1	05/15/2025 00:52	WG2515144
Trichloroethene	ND		1.00	1	05/15/2025 00:52	WG2515144
Trichlorofluoromethane	ND		2.50	1	05/15/2025 00:52	WG2515144
Vinyl acetate	ND		5.00	1	05/15/2025 00:52	WG2515144
Vinyl chloride	ND	J4	1.00	1	05/15/2025 00:52	WG2515144
Xylenes, Total	ND		3.00	1	05/15/2025 00:52	WG2515144
cis-1,2-Dichloroethene	ND		1.00	1	05/15/2025 00:52	WG2515144
cis-1,3-Dichloropropene	ND		1.00	1	05/15/2025 00:52	WG2515144
trans-1,2-Dichloroethene	ND		1.00	1	05/15/2025 00:52	WG2515144
trans-1,3-Dichloropropene	ND		1.00	1	05/15/2025 00:52	WG2515144
trans-1,4-Dichloro-2-butene	ND		1.00	1	05/15/2025 00:52	WG2515144
(S) 4-Bromofluorobenzene	*90.4*			*67.0-138*	*05/15/2025 00:52*	WG2515144
(S) Toluene-d8	*97.7*			*75.0-131*	*05/15/2025 00:52*	WG2515144
(S) 1,2-Dichloroethane-d4	*112*			*70.0-130*	*05/15/2025 00:52*	WG2515144

Method Blank (MB)

(MB) R4215972-1 05/15/25 18:35

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Suspended Solids	ND		0.350	2.50

L1858066-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1858066-03 05/15/25 18:35 • (DUP) R4215972-3 05/15/25 18:35

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Suspended Solids	12.8	12.4	1	3.17		10

L1858066-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1858066-04 05/15/25 18:35 • (DUP) R4215972-4 05/15/25 18:35

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Suspended Solids	15.6	14.8	1	5.26		10

Laboratory Control Sample (LCS)

(LCS) R4215972-2 05/15/25 18:35

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Suspended Solids	773	864	112	85.0-115	

Method Blank (MB)

(MB) R4215299-1 05/14/25 09:45

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Suspended Solids	ND		0.350	2.50

L1858066-10 Original Sample (OS) • Duplicate (DUP)

(OS) L1858066-10 05/14/25 09:45 • (DUP) R4215299-3 05/14/25 09:45

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Suspended Solids	76.0	76.0	1	0.000		10

L1858272-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1858272-01 05/14/25 09:45 • (DUP) R4215299-4 05/14/25 09:45

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Suspended Solids	697	710	1	1.90		10

Laboratory Control Sample (LCS)

(LCS) R4215299-2 05/14/25 09:45

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Suspended Solids	773	814	105	85.0-115	

Method Blank (MB)

(MB) R4214214-2 05/13/25 16:46

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Alkalinity,Bicarbonate	ND		2.71	20.0
Alkalinity,Carbonate	ND		2.71	20.0

Sample Narrative:

BLANK: Endpoint pH 4.5

L1858066-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1858066-01 05/13/25 16:59 • (DUP) R4214214-3 05/13/25 17:04

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Alkalinity,Bicarbonate	317	321	1	1.39		20
Alkalinity,Carbonate	ND	ND	1	0.000		20

Sample Narrative:

OS: Endpoint pH 4.5 Headspace

DUP: Endpoint pH 4.5

L1858143-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1858143-03 05/13/25 19:07 • (DUP) R4214214-4 05/13/25 19:11

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Alkalinity,Bicarbonate	369	379	1	2.61		20
Alkalinity,Carbonate	ND	ND	1	0.000		20

Sample Narrative:

OS: Endpoint pH 4.5 Headspace

DUP: Endpoint pH 4.5

Method Blank (MB)

(MB) R4214820-2 05/14/25 10:42

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Alkalinity,Bicarbonate	ND		2.71	20.0
Alkalinity,Carbonate	ND		2.71	20.0

Sample Narrative:

BLANK: Endpoint pH 4.5

L1857993-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1857993-01 05/14/25 10:59 • (DUP) R4214820-3 05/14/25 11:04

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Alkalinity,Bicarbonate	110	110	1	0.281		20
Alkalinity,Carbonate	ND	ND	1	0.000		20

Sample Narrative:

OS: Endpoint pH 4.5 Headspace

DUP: Endpoint pH 4.5

L1858151-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1858151-05 05/14/25 14:34 • (DUP) R4214820-4 05/14/25 14:39

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Alkalinity,Bicarbonate	59.9	60.9	1	1.65		20
Alkalinity,Carbonate	ND	ND	1	0.000		20

Sample Narrative:

OS: Endpoint pH 4.5 Headspace

DUP: Endpoint pH 4.5

Method Blank (MB)

(MB) R4216416-1 05/17/25 23:26

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Chloride	0.202		0.0519	1.00
Sulfate	0.323		0.0774	5.00

L1858066-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1858066-02 05/18/25 00:17 • (DUP) R4216416-3 05/18/25 00:30

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	27.5	27.3	1	0.715		15
Sulfate	33.3	33.0	1	0.863		15

L1858066-12 Original Sample (OS) • Duplicate (DUP)

(OS) L1858066-12 05/18/25 04:46 • (DUP) R4216416-6 05/18/25 04:59

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	22.8	22.2	1	2.73		15
Sulfate	7.32	7.21	1	1.53		15

Laboratory Control Sample (LCS)

(LCS) R4216416-2 05/17/25 23:39

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	40.0	40.2	100	80.0-120	
Sulfate	40.0	40.7	102	80.0-120	

L1858066-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1858066-02 05/18/25 00:17 • (MS) R4216416-4 05/18/25 00:43 • (MSD) R4216416-5 05/18/25 00:55

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 %
Chloride	40.0	27.5	63.2	62.3	89.4	87.0	1	80.0-120			1.55	15
Sulfate	40.0	33.3	69.6	68.2	90.8	87.5	1	80.0-120			1.96	15

L1858066-12 Original Sample (OS) • Matrix Spike (MS)

(OS) L1858066-12 05/18/25 04:46 • (MS) R4216416-7 05/18/25 05:11

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	40.0	22.8	59.3	91.3	1	80.0-120	
Sulfate	40.0	7.32	46.8	98.7	1	80.0-120	

Method Blank (MB)

(MB) R4217950-1 05/20/25 21:10

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Arsenic	ND		0.00650	0.0100
Barium	ND		0.00170	0.00500
Beryllium	ND		0.000700	0.00200
Calcium	ND		0.0463	1.00
Cadmium	ND	J	0.000700	0.00200
Chromium	ND		0.00140	0.0100
Copper	ND		0.00530	0.0100
Potassium	ND		0.102	1.00
Magnesium	ND		0.0111	1.00
Sodium	0.0221		0.0111	1.00
Nickel	ND		0.00490	0.0100
Lead	ND		0.00190	0.00500
Vanadium	ND		0.00240	0.0200
Zinc	ND		0.00590	0.0500

Method Blank (MB)

(MB) R4219045-1 05/22/25 11:58

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
Calcium	ND		0.0463	1.00
Cadmium	ND		0.000700	0.00200
Chromium	ND		0.00140	0.0100
Copper	ND		0.00530	0.0100
Potassium	0.121		0.102	1.00
Magnesium	ND		0.0111	1.00
Sodium	0.304		0.0111	1.00
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) R4217950-2 05/20/25 21:11

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Silver	0.200	0.185	92.7	80.0-120	
Arsenic	1.00	0.925	92.5	80.0-120	
Barium	1.00	0.968	96.8	80.0-120	
Beryllium	1.00	0.971	97.1	80.0-120	
Calcium	10.0	9.68	96.8	80.0-120	
Cadmium	1.00	0.959	95.9	80.0-120	
Chromium	1.00	0.894	89.4	80.0-120	
Copper	1.00	0.990	99.0	80.0-120	
Potassium	10.0	9.78	97.8	80.0-120	
Magnesium	10.0	9.98	99.8	80.0-120	
Sodium	10.0	9.62	96.2	80.0-120	
Nickel	1.00	0.888	88.8	80.0-120	
Lead	1.00	0.927	92.7	80.0-120	
Vanadium	1.00	0.936	93.6	80.0-120	
Zinc	1.00	0.934	93.4	80.0-120	

Laboratory Control Sample (LCS)

(LCS) R4219045-2 05/22/25 11:59

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Silver	0.200	0.184	92.2	80.0-120	
Arsenic	1.00	0.934	93.4	80.0-120	
Barium	1.00	0.963	96.3	80.0-120	
Beryllium	1.00	0.946	94.6	80.0-120	
Calcium	10.0	9.49	94.9	80.0-120	
Cadmium	1.00	0.899	89.9	80.0-120	
Chromium	1.00	0.963	96.3	80.0-120	
Copper	1.00	0.972	97.2	80.0-120	
Potassium	10.0	9.13	91.3	80.0-120	
Magnesium	10.0	9.14	91.4	80.0-120	
Sodium	10.0	9.92	99.2	80.0-120	
Nickel	1.00	0.898	89.8	80.0-120	
Lead	1.00	0.885	88.5	80.0-120	
Vanadium	1.00	0.901	90.1	80.0-120	
Zinc	1.00	0.891	89.1	80.0-120	

L1858066-11 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1858066-11 05/20/25 21:13 • (MS) R4217950-4 05/20/25 21:16 • (MSD) R4217950-5 05/20/25 21:18

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 %
Arsenic	1.00	ND	0.991	0.989	99.1	98.9	1	75.0-125			0.275	20
Barium	1.00	0.216	1.24	1.23	102	101	1	75.0-125			0.810	20
Beryllium	1.00	ND	1.02	1.02	102	102	1	75.0-125			0.473	20
Calcium	10.0	163	168	168	51.4	54.8	1	75.0-125	V	V	0.199	20
Cadmium	1.00	ND	1.01	1.01	101	101	1	75.0-125			0.341	20
Chromium	1.00	ND	0.990	0.980	98.7	97.7	1	75.0-125			0.981	20
Copper	1.00	ND	1.06	1.04	106	104	1	75.0-125			2.11	20
Potassium	10.0	1.06	11.5	11.5	104	104	1	75.0-125			0.410	20
Magnesium	10.0	51.6	60.7	61.4	90.8	97.9	1	75.0-125			1.16	20
Sodium	10.0	24.3	33.7	35.4	93.9	111	1	75.0-125			5.08	20
Nickel	1.00	0.0344	0.999	1.01	96.4	97.2	1	75.0-125			0.813	20
Lead	1.00	ND	0.999	0.987	99.9	98.7	1	75.0-125			1.20	20
Vanadium	1.00	ND	0.979	0.975	97.9	97.5	1	75.0-125			0.394	20
Zinc	1.00	ND	0.992	0.988	99.2	98.8	1	75.0-125			0.355	20

L1858066-11 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1858066-11 05/22/25 12:01 • (MS) R4219045-4 05/22/25 12:04 • (MSD) R4219045-5 05/22/25 12:06

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 %
Silver	0.200	ND	0.201	0.199	101	99.7	1	75.0-125			0.870	20
Arsenic	1.00	ND	1.01	0.997	101	99.7	1	75.0-125			1.09	20
Barium	1.00	0.216	1.22	1.21	100	99.5	1	75.0-125			0.690	20
Beryllium	1.00	ND	0.995	0.989	99.5	98.9	1	75.0-125			0.653	20
Calcium	10.0	159	164	164	58.1	58.4	1	75.0-125	V	V	0.0191	20
Cadmium	1.00	ND	0.955	0.956	95.5	95.6	1	75.0-125			0.0351	20
Chromium	1.00	ND	1.00	0.999	100	99.9	1	75.0-125			0.301	20
Copper	1.00	ND	1.04	1.03	104	103	1	75.0-125			0.550	20
Potassium	10.0	1.11	10.8	10.8	97.1	97.0	1	75.0-125			0.0511	20
Magnesium	10.0	48.3	57.2	57.0	89.4	87.7	1	75.0-125			0.284	20
Sodium	10.0	24.3	33.4	34.9	90.9	106	1	75.0-125			4.40	20
Nickel	1.00	0.0317	0.993	0.987	96.1	95.5	1	75.0-125			0.627	20
Lead	1.00	ND	0.932	0.932	93.0	93.0	1	75.0-125			0.0399	20
Vanadium	1.00	ND	0.948	0.942	94.8	94.2	1	75.0-125			0.729	20
Zinc	1.00	ND	0.922	0.921	92.2	92.1	1	75.0-125			0.0855	20

Method Blank (MB)

(MB) R4217790-1 05/21/25 00:04

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) R4217790-2 05/21/25 00:08

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Cobalt	0.0500	0.0496	99.2	80.0-120	
Antimony	0.0500	0.0486	97.3	80.0-120	
Selenium	0.0500	0.0485	97.0	80.0-120	
Thallium	0.0500	0.0485	97.1	80.0-120	

L1857986-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1857986-01 05/21/25 00:11 • (MS) R4217790-4 05/21/25 00:17 • (MSD) R4217790-5 05/21/25 00:20

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	0.0487	0.0486	97.2	97.0	1	75.0-125			0.173	20
Antimony	0.0500	ND	0.0495	0.0506	99.0	101	1	75.0-125			2.19	20
Selenium	0.0500	ND	0.0512	0.0491	102	98.2	1	75.0-125			4.16	20
Thallium	0.0500	ND	0.0349	0.0489	69.8	97.7	1	75.0-125	J6	J3	33.4	20

Method Blank (MB)

(MB) R4216210-4 05/14/25 23:46

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) R4216210-4 05/14/25 23:46

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) 4-Bromofluorobenzene	*91.1*			*67.0-138*
(S) Toluene-d8	*99.2*			*75.0-131*
(S) 1,2-Dichloroethane-d4	*108*			*70.0-130*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4216210-1 05/14/25 21:13 • (LCSD) R4216210-2 05/14/25 21:33

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	5.00	4.68	4.56	93.6	91.2	74.0-129			2.60	20
1,1,1-Trichloroethane	5.00	5.34	4.75	107	95.0	69.0-126			11.7	20
1,1,2,2-Tetrachloroethane	5.00	4.39	4.14	87.8	82.8	68.0-128			5.86	20
1,1,2-Trichloroethane	5.00	4.76	4.64	95.2	92.8	78.0-123			2.55	20
1,1-Dichloroethane	5.00	5.77	5.17	115	103	70.0-127			11.0	20
1,1-Dichloroethene	5.00	5.33	4.65	107	93.0	65.0-131			13.6	20
1,2-Dichlorobenzene	5.00	4.83	4.60	96.6	92.0	76.0-124			4.88	20
1,2-Dichloroethane	5.00	5.41	5.10	108	102	65.0-131			5.90	20
1,2-Dichloropropane	5.00	5.50	5.09	110	102	74.0-125			7.74	20
1,4-Dichlorobenzene	5.00	5.13	4.72	103	94.4	77.0-121			8.32	20
2-Butanone (MEK)	25.0	32.0	31.2	128	125	30.0-160			2.53	24
2-Hexanone	25.0	25.2	24.2	101	96.8	54.0-147			4.05	20
4-Methyl-2-pentanone (MIBK)	25.0	26.8	26.0	107	104	56.0-143			3.03	20
Acetone	25.0	37.8	36.4	151	146	10.0-160			3.77	31
Acrylonitrile	25.0	28.2	27.7	113	111	45.0-153			1.79	22
Benzene	5.00	5.33	4.90	107	98.0	70.0-123			8.41	20
Bromochloromethane	5.00	5.68	5.27	114	105	77.0-128			7.49	20
Bromodichloromethane	5.00	5.13	4.85	103	97.0	73.0-121			5.61	20
Bromoform	5.00	4.05	4.03	81.0	80.6	64.0-132			0.495	20
Bromomethane	5.00	6.35	5.96	127	119	56.0-147			6.34	20
Carbon disulfide	5.00	5.51	4.84	110	96.8	56.0-133			12.9	20
Carbon tetrachloride	5.00	5.11	4.57	102	91.4	66.0-128			11.2	20
Chlorobenzene	5.00	5.20	4.94	104	98.8	76.0-128			5.13	20
Chloroethane	5.00	6.74	6.10	135	122	61.0-134	J4		9.97	20
Chloroform	5.00	5.51	5.02	110	100	72.0-123			9.31	20
Chloromethane	5.00	6.68	5.85	134	117	51.0-138			13.2	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4216210-1 05/14/25 21:13 • (LCSD) R4216210-2 05/14/25 21:33

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	5.00	4.53	4.44	90.6	88.8	74.0-127			2.01	20
Dibromomethane	5.00	5.22	4.96	104	99.2	75.0-122			5.11	20
Ethylbenzene	5.00	4.87	4.61	97.4	92.2	74.0-126			5.49	20
Iodomethane	25.0	31.9	28.6	128	114	74.0-134			10.9	20
Methylene Chloride	5.00	5.59	5.07	112	101	68.0-123			9.76	20
Styrene	5.00	4.57	4.38	91.4	87.6	72.0-127			4.25	20
Tetrachloroethene	5.00	4.92	4.44	98.4	88.8	70.0-136			10.3	20
Toluene	5.00	4.98	4.74	99.6	94.8	75.0-121			4.94	20
Trichloroethene	5.00	5.55	5.15	111	103	76.0-126			7.48	20
Trichlorofluoromethane	5.00	6.24	5.15	125	103	61.0-142			19.1	20
Vinyl acetate	25.0	20.2	19.1	80.8	76.4	43.0-159			5.60	20
Vinyl chloride	5.00	6.81	5.84	136	117	63.0-134	J4		15.3	20
Xylenes, Total	15.0	14.5	13.5	96.7	90.0	72.0-127			7.14	20
cis-1,2-Dichloroethene	5.00	5.12	4.88	102	97.6	73.0-125			4.80	20
cis-1,3-Dichloropropene	5.00	4.98	4.65	99.6	93.0	76.0-127			6.85	20
trans-1,2-Dichloroethene	5.00	5.47	4.94	109	98.8	71.0-125			10.2	20
trans-1,3-Dichloropropene	5.00	4.79	4.72	95.8	94.4	73.0-127			1.47	20
trans-1,4-Dichloro-2-butene	5.00	4.67	4.56	93.4	91.2	45.0-143			2.38	20
(S) 4-Bromofluorobenzene				*90.6*	*92.3*	*67.0-138*				
(S) Toluene-d8				*97.1*	*98.8*	*75.0-131*				
(S) 1,2-Dichloroethane-d4				*110*	*110*	*70.0-130*				

Method Blank (MB)

(MB) R4215660-2 05/15/25 11:15

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) R4215660-1 05/15/25 10:32

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
1,2,3-Trichloropropane	0.0500	0.0600	120	70.0-130	
1,2-Dibromo-3-Chloropropane	0.0500	0.0560	112	70.0-130	
1,2-Dibromoethane	0.0500	0.0580	116	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.
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.
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.
J4	The associated batch QC was outside the established quality control range for accuracy.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
O1	The analyte failed the method required serial dilution test and/or subsequent post-spike criteria. These failures indicate matrix interference.
V	The sample concentration is too high to evaluate accurate spike recoveries.

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:
Sam Kanakkanatt 320-864-5503

Email To:
ddemory@wm.com;skanakka@wm.com;cory.a

Project Description:
Semiannual GW Detection & Major Ions (6)

City/State Collected:

Please Circle: PT MT CT ET

Regulatory Program(DOD,RCRA,DW,etc):

Client Project #
200

Lab Project #
WMDICIA-00003

Collected by (print):
JH

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	ALK, ALKBI 500mlHDPE-NoPres	CL,SO4 125mlHDPE-NoPres	Metals 250mlHDPE-HNO3	TSS 1L-HDPE NoPres	V524LL 40mlAmb HCl	V524LL 40mlAmb-HCl	V524LL 40mlAmb-HCl-Blk	V8260ULLC 40mlAmb HCl	V8260ULLC 40mlAmb-HCl	V8260ULLC 40mlAmb-HCl-Blk	Remarks	Sample # (lab only)
Holding Pond		GW		5-12-25	1130	10	X	X	X	X	X			X				-01
MW-11A		GW			958	10	X	X	X	X	X			X				-02
MW-12A		GW			1008	10	X	X	X	X	X			X				-03
MW-13A		GW			947	10	X	X	X	X	X			X				-04
MW-19A		GW			1101	10	X	X	X	X	X			X				-05
MW-21A		GW			1110	10	X	X	X	X	X			X				-06
MW-23A		GW			1027	10	X	X	X	X	X			X				-07
MW-34A		GW			1023	10	X	X	X	X	X			X				-08
MW-36A		GW			953	10	X	X	X	X	X			X				-09
MW-37A		GW			1056	10	X	X	X	X	X			X				-10

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 # L1550666
A051

Acctnum: **WMDICIA**
Template: **T168252**
Prelogin: **P1150539**
PM: **3564 - Chad A Upchurch**
PB: BW 5/7

Shipped Via: **FedEX Standard**

* 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 #

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)
	5-12-25	1400	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)
			Dwight

Trip Blank Received: Yes / No
HCL / MeoH
TBR
3

Temp: °C Bottles Received: 136

Date: 5.13.25 Time: 0845

PH – 10BDH2631
TRC – 3227A333

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

Pres Chk

Report to:
Sam Kanakkanatt 320-864-5503

Email To:
ddemory@wm.com;skanakka@wm.com;cory.a

Project Description:
Semiannual GW Detection & Major Ions (6)

City/State Collected: Iowa

Please Circle: PT MT CT ET

Regulatory Program(DOD,RCRA,DW,etc):

Client Project #
200

Lab Project #
WMDICIA-00003

Collected by (print):
JW

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

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	ALK, ALKBI 500mlHDPE-NoPres	CL,SO4 125mlHDPE-NoPres	Metals 250mlHDPE-HNO3	TSS 1L-HDPE NoPres	V524LL 40mlAmb HCl	V524LL 40mlAmb-HCl	V524LL 40mlAmb-HCl-Blk	V8260ULLC 40mlAmb HCl	V8260ULLC 40mlAmb-HCl	V8260ULLC 40mlAmb-HCl-Blk	Remarks	Sample # (lab only)
MW-38A		GW		5-12-25	1134	10	X	X	X	X	X			X				-11
MW-39A		GW			1135	10	X	X	X	X	X			X				-12
MW-40A		GW			1205	10	X	X	X	X	X			X				-13
FIELD BLANK		GW			9:10	6						X			X			-14
TRIP BLANK		GW			9:10	3							X			X		-15

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 # L1558406

Table #

Acctnum: **WMDICIA**
Template: **T168252**
Prelogin: **P1150539**
PM: **3564 - Chad A Upchurch**
PB: BW 5/7

Shipped Via: **FedEX Standard**

* 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 #

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	
	5-12-25	1400		3	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received: 136	If preservation required by Login: Date/Time
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature) Deyarly	Date: 5.13.25 Time: 0845	Hold: Condition: NCF / OK

FIELD INFORMATION FORM

Surface Water, Stormwater and Leachate

WASTE MANAGEMENT

Site Name: Dickinson SLF

Sample I.D.: Holding Pond

Laboratory Use Only / Lab I.D.: LB550106

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)

Sample Type: (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)
05/12/2025	1130	7.67	985	21.8	3.4	9.10	79.0

Record final stabilized field readings.

Field Observations

Sample Appearance: Odor: None Color: Tan Other: 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: South/16 Precipitation: Y or (N)

Specific Comments:

Date	Name	Signature	Company
05/12/2025	Nick	[signature]	MVTL

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: Dickinson Co. SLF

Site No.: | | | | |

Sample Point: MW-11A (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: 485604

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
05/12/25	9:18	:20	2.0	10.0	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

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): 1532.39 (ft/msl)

Depth to Water (DTW) (from TOC): 19.10 (ft)

Groundwater Elevation (site datum, from TOC): 1513.29 (ft/msl)

Total Well Depth (from TOC): 31.27 (ft)

Stick Up (from ground elevation): 1 (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)
9:22	2.0 1st	6.98 1st	1108 1st	9.7	12.2	4.9	169.4	21.5
9:26	4.0 2nd	7.00 2nd	1132 2nd	9.8	9.7	3.9	162.9	22.6
9:30	6.0 3rd	6.99 3rd	1141 3rd	9.9	8.8	2.7	160.3	23.0
9:34	8.0 4th	7.00 4th	1150 4th	10.0	9.2	1.4	157.5	23.7
9:38	10.0	7.00	1158	10.1	7.8	1.2	156.9	24.1
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
05/12/25	7.00	1158	10.1	7.8	1.2	156.9	

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: SE 17 Outlook: Clear 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
5/12/25	Dylan Schroedenberg		MTL

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client

ORIGINAL COPY

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: Dickinson Co. SLF

Site No.: | | | | |

Sample Point: MW12A (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: 1855606

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
05/12/25	9:50	:18	29	9.0	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): 1536.52 (ft/msl)

Depth to Water (DTW) (from TOC): 16.53 (ft)

Groundwater Elevation (site datum, from TOC): 1519.99 (ft/msl)

Total Well Depth (from TOC): 34.10 (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)
9:56	3.0 1st	6.39 1st	1829	10.1	0.0	0.6	-51.8	19.8
10:02	6.0 2nd	6.41 2nd	1821	10.1	0.0	0.6	-50.0	24.2
10:08	9.0 3rd	6.42 3rd	1808	10.2	0.0	0.5	-48.9	26.5
	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
05/12/25	6.42	1808	10.2	0.0	0.5	-48.9	

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.*

FIELD COMMENTS

Sample Appearance: Clear — Odor: None — Color: None — Other: —

Weather Conditions (required daily, or as conditions change): Direction/Speed: W@17 — Outlook: Clear — 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
5/12/25	Dylan Schreckenberg		MTL

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client

ORIGINAL COPY

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: Dickinson SLF

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: LR5566de

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
05 12 25	09:35	:12	29	32	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)	Total Well Depth (from TOC)	Stick Up (from ground elevation)	Casing ID	Casing Material
1509.86 (ft/msl)	15.92 (ft)	1493.94 (ft/msl)	33.99 (ft)	____ (ft)	2.0 (in)	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)

(4)

	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	09:39	0.8	6.85	943	9.8	1.7	5.0	91.3	15.9
2nd	09:43	1	6.68	951	9.9	0.8	4.9	91.0	22.7
3rd	09:47	1	6.64	956	9.8	0.7	4.7	89.0	22.7
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
05 12 25	6.64	956	9.8	0.7	4.7	89.0	____

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: 17-5 Outlook: Clear/72° 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
05 12 2025	Nick	[signature]	MVTL

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client

ORIGINAL COPY

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: Dickinson LF

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: L1550de

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
05 12 25	10:43	:18	3.0	9.0	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)
1469.58 (ft/msl)	4.13 (ft)	1465.45 (ft/msl)

Total Well Depth (from TOC)	Stick Up (from ground elevation)	Casing ID	Casing Material
22.70 (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 1.5	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
10:49	3 1st	7.15 1st	1309	7.2	1.9	4.1	-12	5.6
10:55	6 2nd	7.17 2nd	1322	7.2	1.6	4.2	-09	5.10
11:01	9 3rd	7.19 3rd	1328	7.2	1.5	4.3	-10	6.2
:	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
5 12 25	7.19	1328	7.2	1.5	4.3	-10	____

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: S-10 Outlook: Sunny 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
5/12/25	JH	Jeff Hoff	MVTL

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client

ORIGINAL COPY

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: Dickinson 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: 680840

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
05 12 25	10:55	:15	4.0	4.0	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
X-Other:
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)	25.18 (ft)	1474.70 (ft/msl)

Total Well Depth (from TOC): 49.88 (ft)
Stick Up (from ground elevation): — (ft)
Casing ID: 2.0 (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	11:00	0.8	6.86	919	11.9	0.0	5.0	684	25.1
2nd	11:05	1	6.86	923	11.9	0.0	4.7	698	1
3rd	11:10	1	6.85	927	11.9	0.0	4.6	712	1
4th									
			+/- 0.2	+/- 3%	–	–	+/- 10%	+/- 25 mV	Stabilize

Suggested range for 3 consec. readings or note Permit/State requirements:

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
05 12 25	6.85	927	11.9	0.0	4.6	712	—

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: W/South
Outlook: 78°/clear
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
05 12 25	Nick		MVTL

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client

ORIGINAL COPY

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: Dickinson SLF
Site No.:
Sample Point: MW-23A
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: L1655066

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
05 12 25	10:18	:09	2.0	2.1	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
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)	Depth to Water (DTW) (from TOC)	Groundwater Elevation (site datum, from TOC)
1501.73 (ft/msl)	12.22 (ft)	1489.51 (ft/msl)

Total Well Depth (from TOC)	Stick Up (from ground elevation)	Casing ID	Casing Material
24.22 (ft)	— (ft)	2.0 (in)	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	10:21	0.7	6.48	1052	8.3	0.6	2.2	-49.0	12.2
2nd	10:24	1	6.47	1049	8.2	0.4	2.2	-49.5	12.8
3rd	10:27	1	6.47	1049	8.2	0.2	2.2	-50.0	13.5
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
05 12 25	6.47	1047	8.2	0.2	2.2	-50.0	—

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: S/8
Outlook: clear - 76°
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
05/12/2025	Nick	[signature]	MVTL

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client

ORIGINAL COPY

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: Dickinson LF

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: 485804d6

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
05 12 25	10:15	: 8	1.2	1.0	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: 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): 21.48 (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:

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 5	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	1.5 1st	7.24 1st	1670 1st	8.5	0.0	1.7	-207.5	Below pump
~~10:21~~	~~3.0~~ 2nd	2nd	2nd					
~~10:24~~	~~4.5~~ 3rd	3rd	3rd					
	4th	4th	4th					
10:23		7.40	1602	9.1	9.1	4.5	-168.1	Below pump
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
05 12 25	7.40	1602	9.1	9.1	4.5	+168.1	____

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: ____

Weather Conditions (required daily, or as conditions change): Direction/Speed: S-10 Outlook: Sunny Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

→ unsafe access

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
5/12/25	JH	Jeff Hoff	MWTL
/ /			

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client

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FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: Dickinson LF
Site No.:
Sample Point: MW-36A (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: [illegible]

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
05 12 25	9:45	: 8	1.3	4.5	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): (ft/msl)
Depth to Water (DTW) (from TOC): 20.48 (ft)
Groundwater Elevation (site datum, from TOC): (ft/msl)
Total Well Depth (from TOC): 28.76 (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/Limit: .5	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
9:47	1.5 1st	6.93 1st	1405	7.8	2.7	2.8	143.7	23.2
9:50	3.0 2nd	6.94 2nd	1409	7.8	2.8	2.6	141.9	24.8
9:53	4.5 3rd	6.93 3rd	1417	7.8	0.0	2.1	141.3	25.1
	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
05 12 25	6.93	1417	7.8	0.0	2.1	141.3	

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.*

FIELD COMMENTS

Sample Appearance: clear — Odor: none — Color: none — Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: S-15 — Outlook: Sunny — Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required):

- unsafe access
- Haul truck broke + unable to fix access

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
5 12 25	JH	Jeff Hoff	MVTL

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client

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FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: Dickenson Co. SLF

Site No.:

Sample Point: MW37A (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: 458660dd

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
05 12 25	10:35	:21	27	~~27~~ 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: C (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): 20.38 (ft)

Groundwater Elevation (site datum, from TOC): NA (ft/msl)

Total Well Depth (from TOC): 36.65 (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)
10:42	2.8 1st	6.41 1st	3734	10.7	44	0.5	-443	21.3
10:49	5.6 2nd	6.42 2nd	3744	10.7	27	0.4	-488	21.4
10:56	8.4 3rd	6.43 3rd	3749	10.8	34	0.4	-532	21.4
	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
05 12 25	6.43	3749	10.8	34	0.4	-532	

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: SE 17 Outlook: Clear 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
5 12 25	Dylan Schroedenberg		MTL

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client

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FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: Dickinson Co SLF

Site No.:

Sample Point: MW38A (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: L1855606

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
05 12 25	11:15	:21	32	10.5	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

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)	Depth to Water (DTW) (from TOC)	Groundwater Elevation (site datum, from TOC)
NA (ft/msl)	12.78 (ft)	NA (ft/msl)

Total Well Depth (from TOC)	Stick Up (from ground elevation)	Casing ID	Casing Material
32.41 (ft)	+ (ft)	2 (in)	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)
1122	3.5 1st	6.61 1st	1357	9.4	0.0	0.5	502	14.1
1129	7.0 2nd	6.60 2nd	1355	9.4	0.0	0.5	537	14.2
1136	10.5 3rd	6.66 3rd	1356	9.3	0.0	0.4	579	14.3
	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
05 12 25	6.66	1356	9.3	0.0	0.4	578	

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: SE 17 — Outlook: Clear — 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
5/12/25	Dylan Schreckenberg	[signature]	MUTL

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client

ORIGINAL COPY

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: Dickinson LF

Site No.: ____ Sample Point: MW-394 (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: Lab Code

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
05 12 25	11:19	:14	1.6	8.0	4.0

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: ____ — 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)
____ (ft/msl)	13.88 (ft)	____ (ft/msl)

Total Well Depth (from TOC)	Stick Up (from ground elevation)	Casing ID	Casing Material
23.95 (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)
11:23	2 (1st)	7.42 (1st)	830	8.4	52.5	8.5	628	16.8
11:27	4 (2nd)	7.33 (2nd)	854	8.5	10.9	7.9	718	16.88
11:31	6 (3rd)	7.34 (3rd)	860	8.5	10.4	7.8	725	16.9
11:35	8 (4th)	7.34 (4th)	864	8.4	9.0	7.8	727	16.9
:								
:								
:								
:								
:								
:								
:								
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 ____
05 12 25	7.34	864	8.4	9.0	7.8	727	

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: S-15 Outlook: Sunny 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
5/12/25	TH	[signature]	MVTL

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client

ORIGINAL COPY

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: Dickinson LF

Site No.: | | | | |

Sample Point: MW-40 (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: L1855dd

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
05 12 25	11:50	:15	2.2	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): ____ (ft/msl)

Depth to Water (DTW) (from TOC): 18.62 (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: ____

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)

5

Sample Time (2400 Hr Clock)	Rate/Unit .5	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
11:55	25 1st	7.42 1st	706 1st	9.2	3.7	7.0	859	21.8
12:00	50 2nd	7.43 2nd	707 2nd	9.2	4.0	6.8	849	22.4
12:05	7.5 3rd	7.53 3rd	710 3rd	9.2	5.9	6.3	808	22.7
	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 ____
05 12 25	7.53	710	9.2	5.9	6.3	808	

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: S-15 Outlook: Sunny 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
5/12/25	JH		MVTL

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client

ORIGINAL COPY

Minnesota Valley Testing Laboratories, Inc.

New Ulm, MN 56073 507 354 8517

LF65560do

Groundwater Level Measurements

Sampling Personnel: DS

Site: Dickinson Co. SLF

Facility ID: NA

Date: 12May25

Well Number	MW-14A	MW-15A	MW-17A				
Time	1210	1205	1200				
Unique Station ID	NA	NA	NA				
Well Casing Elevation	1483.98	1476.03	1473.61				
Depth to Water	7.63	8.07	7.98				
Static Elevation	1476.35	1467.96	1465.63				
Previous Static	1474.47	1465.13	1461.83				
Casing Diameter	2"	2"	2"				
Well Depth	21.73	26.88	21.87				
Well Volume	2.30	3.07	2.27				
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

GROUNDWATER SAMPLING AND/OR
GROUNDWATER ELEVATION MEASUREMENT

L8558dd

Site Name Dickinson Co. SLF Permit No. _____

Monitoring Well/Piezometer No. MW-11A Upgradient _____
Downgradient _____

Name of person sampling Dylan Schreckenbergs

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 1513.29
Depth of Well ~~31.19~~ 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	12May2018	19.10	1513.29
* After Purging	1/938	24.1	1508.29
* Before Sampling	1/1	1	1

C. WELL PURGING

Quantity of Water Removed from Well (gallons) 10.0
No. of Well Volumes (based on current water level) 5
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 74°F Clear wind 5@17
Field Measurements (after stabilization):
Temperature 10.1 Units °C
Equipment Used YSI 6820 Multi Parameter Meter
pH 7.00
Equipment Used YSI 6820 Multi Parameter Meter
Specific Cond. 1158
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

GROUNDWATER SAMPLING AND/OR
GROUNDWATER ELEVATION MEASUREMENT

U8558066

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 1519.99
Depth of Well ~~34.01~~ 34.10 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	12May25/950	16.53	1519.99
* After Purging	/1008	26.5	1510.02
* Before Sampling	/ I	I	1510.02

C. WELL PURGING

Quantity of Water Removed from Well (gallons) 9.0
No. of Well Volumes (based on current water level) 3
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 74° SE17 Clear
Field Measurements (after stabilization):
Temperature 10.2 Units °C
Equipment Used YSI 6820 Multi Parameter Meter
pH 6.42
Equipment Used YSI 6820 Multi Parameter Meter
Specific Cond. 1808
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

LF8580d6

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 Nick M

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	12May25/0935	15.92	1493.94
* After Purging		22.70	1487.16
* Before Sampling		22.70	1487.16

C. WELL PURGING

Quantity of Water Removed from Well (gallons) 9.6
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 Clear/72° 17-South-Wind
Field Measurements (after stabilization):
Temperature 9.8°C Units C
Equipment Used YSI 6820 Multi Parameter Meter
pH 6.64
Equipment Used YSI 6820 Multi Parameter Meter
Specific Cond. 956
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

GROUNDWATER SAMPLING AND/OR
GROUNDWATER ELEVATION MEASUREMENT

LF8580Ldg

Site Name Dickinson Co. SLF Permit No. _____

Monitoring Well/Piezometer No. MW-19A Upgradient _____
Downgradient _____

Name of person sampling JH

A. MONITORING WELL/PIEZOMETER CONDITIONS

Well/Piezometer Properly Capped Yes Standing Water of Litter? none
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	5-12-25 1043	4.13	
* After Purging	1101	6.3	
* Before Sampling	1101	6.2	

C. WELL PURGING

Quantity of Water Removed from Well (gallons) 9.0
No. of Well Volumes (based on current water level) 3.
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 73 5-10 Sunny
Field Measurements (after stabilization):
Temperature 7.2 Units _____
Equipment Used YSI 6820 Multi Parameter Meter
pH 7.19
Equipment Used YSI 6820 Multi Parameter Meter
Specific Cond. 1328
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

L8558006

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 Nick

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 _____

Depth of Well ~~50.00~~ 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	12May25/1055	25.18	1474.70
* After Purging		25.18	1474.70
* Before Sampling		25.18	1474.70

C. WELL PURGING

Quantity of Water Removed from Well (gallons) 12

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 78°/clear sky wind: 17/South

Field Measurements (after stabilization):

Temperature 11.9° Units C

Equipment Used YSI 6820 Multi Parameter Meter

pH 6.85

Equipment Used YSI 6820 Multi Parameter Meter

Specific Cond. 927

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

U1858006

GROUNDWATER SAMPLING AND/OR GROUNDWATER ELEVATION MEASUREMENT

Site Name Dickinson Co. SLF Permit No. _____

Monitoring Well/Piezometer No. MW-23A Upgradient _____ Downgradient _____

Name of person sampling Nick

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 1501.73 Ground Elevation _____
Depth of Well ~~24.28~~ 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	12may25/1018	12.5	1489.57
* After Purging	1024	12.8	1488.93
* Before Sampling	1027	13.5	1488.23

C. WELL PURGING

Quantity of Water Removed from Well (gallons) 6.3
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 Clear/76° Wind - S/18
Field Measurements (after stabilization):
Temperature 8.2° Units _____
Equipment Used YSI 6820 Multi Parameter Meter
pH 6.47
Equipment Used YSI 6820 Multi Parameter Meter
Specific Cond. 1047
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

LF8558Ldo

GROUNDWATER SAMPLING AND/OR GROUNDWATER ELEVATION MEASUREMENT

Site Name Dickinson Co. SLF Permit No. _____

Monitoring Well/Piezometer No. MW-34A Upgradient _____
Downgradient _____

Name of person sampling JH

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 _____
Depth of Well ~~28.92~~ 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	5-12-25 1015	21.48	~
* After Purging	1 1023	Below pump	
* Before Sampling	1 1023	Below pump	

C. WELL PURGING

Quantity of Water Removed from Well (gallons) 2
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 73 5-10 Sunny
Field Measurements (after stabilization):
Temperature 9.1 Units C
Equipment Used YSI 6820 Multi Parameter Meter
pH 7.40
Equipment Used YSI 6820 Multi Parameter Meter
Specific Cond. 1602
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

L4558dd6

GROUNDWATER SAMPLING AND/OR GROUNDWATER ELEVATION MEASUREMENT

Site Name Dickinson Co. SLF Permit No. _____

Monitoring Well/Piezometer No. MW-36A Upgradient _____
Downgradient _____

Name of person sampling JH

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 _____
Depth of Well ~~29.02~~ 28.96 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	5-12-25 945	20.44	(
* After Purging	1 953	25.1	?
* Before Sampling	1 953	25.1	?

C. WELL PURGING

Quantity of Water Removed from Well (gallons) 45
No. of Well Volumes (based on current water level) 3
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 73 S-10 Sunny
Field Measurements (after stabilization):
Temperature 7.8 Units C
Equipment Used YSI 6820 Multi Parameter Meter
pH 6.93
Equipment Used YSI 6820 Multi Parameter Meter
Specific Cond. 1417
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

L14558066

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 ~~32.28~~ 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	12Mar25/1035	20.38	NA
* After Purging	/	21.40	/
* Before Sampling	/	/	/

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? _____

Equipment used:
Bailer type _____ Dedicated Bailer? _____
Pump type QED Bladder Dedicated Pump? Yes
If not dedicated, method of cleaning _____

*D. FIELD MEASUREMENT

Weather Conditions 74° SE17 Clear
Field Measurements (after stabilization):
Temperature 10.8 Units °C
Equipment Used YSI 6820 Multi Parameter Meter
pH 6.43
Equipment Used YSI 6820 Multi Parameter Meter
Specific Cond. 3749
Equipment Used YSI 6820 Multi Parameter Meter

Comments _____

LR5580d0

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 Schrackenberg

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 ~~32.26~~ 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	12 May 25 / 1115	12.78	NA
* After Purging	/	14.30	/
* Before Sampling	/	/	/

C. WELL PURGING

Quantity of Water Removed from Well (gallons) 10.5
No. of Well Volumes (based on current water level) 3
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 74° 5@17 Clear
Field Measurements (after stabilization):
Temperature 9.3 Units °C
Equipment Used YSI 6820 Multi Parameter Meter
pH 6.66
Equipment Used YSI 6820 Multi Parameter Meter
Specific Cond. 1.356
Equipment Used YSI 6820 Multi Parameter Meter

Comments _____

LR5580dd

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 JH

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 ~~24.13~~ 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	5-12-25 1119	13.88	)
* After Purging	1135	16.9	.
* Before Sampling	1135	16.9	.

C. WELL PURGING

Quantity of Water Removed from Well (gallons) 8
No. of Well Volumes (based on current water level) 4
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 75 S-15 Sunny
Field Measurements (after stabilization):
Temperature 8.4 Units C
Equipment Used YSI 6820 Multi Parameter Meter
pH 7.34
Equipment Used YSI 6820 Multi Parameter Meter
Specific Cond. 864
Equipment Used YSI 6820 Multi Parameter Meter

Comments _____

LR5580dd

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 JH

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	5-12-25 1150	18.62	
* After Purging		22.7	
* Before Sampling		22.7	

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? _____

Equipment used:
Bailer type _____ Dedicated Bailer? _____
Pump type QED Bladder Dedicated Pump? Yes
If not dedicated, method of cleaning _____

*D. FIELD MEASUREMENT

Weather Conditions 75 5-15 Sunny
Field Measurements (after stabilization):
Temperature 9.2 Units C
Equipment Used YSI 6820 Multi Parameter Meter
pH 7.53
Equipment Used YSI 6820 Multi Parameter Meter
Specific Cond. 710
Equipment Used YSI 6820 Multi Parameter Meter

Comments _____

Multiple Parcel Form

L# L668404

Parcel Tracking Number	Infrared Thermometer ID	Temperature Reading (°C)	Correction Factor (°C)	Corrected Temperature (°C)	Custody Seal Intact
449924583370	TLA4	3.1	0.4	3.5	(Yes) / No / Not Present
449924583381	TLA4	1.4	0.4	1.8	(Yes) / No / Not Present
449924583397	TLA4	1.4	0.4	1.8	(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
					Yes / No / Not Present

D. Reynolds
Name

5.13.25
Date

ANALYTICAL REPORT

June 03, 2025

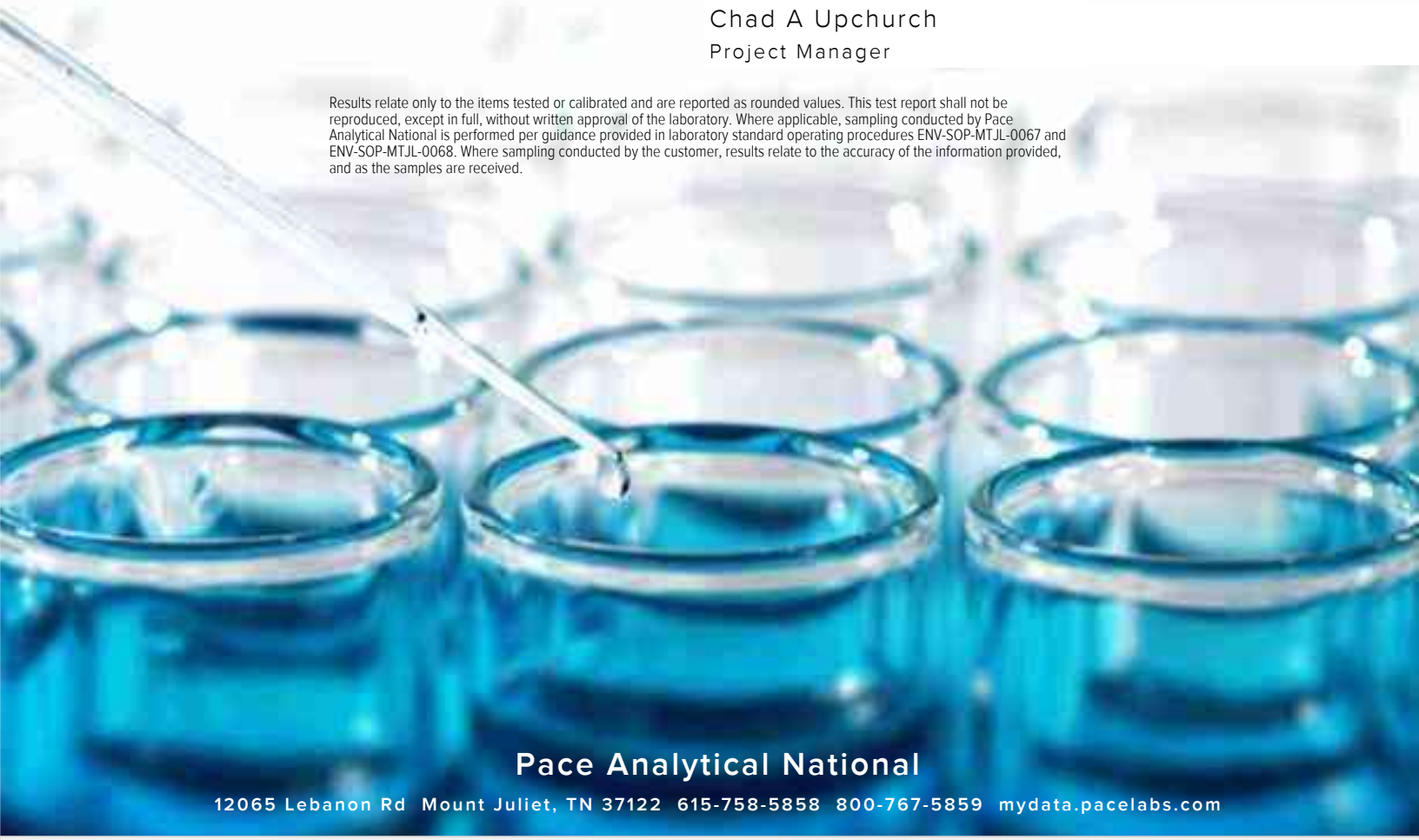
Dickinson Landfill

Sample Delivery Group:	L1858285
Samples Received:	05/13/2025
Project Number:	600
Description:	Annual Holding Pond NPDES
Site:	IA01
Report To:	Andy McCain C/O Spruce Ridge 12755 137th Street 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 L1858285-01

Collected by: JH
Collected date/time: 05/12/25 11:30
Received date/time: 05/13/25 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2514291	1	05/14/25 10:18	05/15/25 08:22	AMG	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2514887	1	05/14/25 16:05	05/14/25 16:05	BJM	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG2514453	1	05/14/25 13:28	05/14/25 13:28	LAS	Mt. Juliet, TN
Wet Chemistry by Method 353.2	WG2515139	1	05/19/25 02:04	05/19/25 02:04	RTW	Mt. Juliet, TN
Wet Chemistry by Method 410.4	WG2514493	1	05/14/25 08:58	05/14/25 12:23	DAM	Mt. Juliet, TN
Wet Chemistry by Method 4500CN E-2011	WG2519740	1	05/21/25 08:33	05/21/25 18:17	AEC	Mt. Juliet, TN
Wet Chemistry by Method 4500H+ B-2011	WG2515278	1	05/14/25 23:40	05/14/25 23:40	KRB	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2514104	1	05/18/25 08:00	05/18/25 08:00	DLH	Mt. Juliet, TN
Wet Chemistry by Method 9060A	WG2515327	1	05/15/25 15:59	05/15/25 15:59	AF	Mt. Juliet, TN
Mercury by Method 7470A	WG2514543	1	05/14/25 13:43	05/15/25 18:15	SDG	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG2516702	1	05/19/25 11:23	05/20/25 14:23	MAP	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG2516807	1	05/19/25 12:10	05/20/25 16:14	MAP	Mt. Juliet, TN
Subcontracted Analyses	WG2515941	1	05/29/25 00:00	05/29/25 00:00	ANF	Subcontract

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.

L1858285 -01 contains subout data that is included after the chain of custody.

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
WG2515278	4500H+ B-2011	L1858285-01

Wet Chemistry by Method 9056A

The sample matrix interfered with the ability to make any accurate determination; spike value is low.

Batch	Lab Sample ID	Analytes
WG2514104	(MS) R4216442-4, (MSD) R4216442-5	Sulfate

Metals (ICP) by Method 6010C

Analysis was filtered in the laboratory.

Batch	Method	Lab Sample ID
WG2516702	6010C	L1858285-01

The sample concentration is too high to evaluate accurate spike recoveries.

Batch	Lab Sample ID	Analytes
WG2516807	(MS) R4217857-4	Sodium

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	7.67	su
Specific Conductance (on site)	985	umhos/cm
Temperature (on-site)	21.81	Deg C
Turbidity (on-site)	3.4	NTU

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	601		10.0	1	05/15/2025 08:22	WG2514291

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Alkalinity	315		20.0	1	05/14/2025 16:05	WG2514887
Alkalinity,Bicarbonate	315		20.0	1	05/14/2025 16:05	WG2514887

Sample Narrative:

L1858285-01 WG2514887: 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	2.17		0.100	1	05/14/2025 13:28	WG2514453

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Nitrate-Nitrite	2.80		0.100	1	05/19/2025 02:04	WG2515139

Wet Chemistry by Method 410.4

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
COD	54.3		10.0	1	05/14/2025 12:23	WG2514493

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	05/21/2025 18:17	WG2519740

Wet Chemistry by Method 4500H+ B-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	SU			date / time	
pH	7.99	T8	1	05/14/2025 23:40	WG2515278

Sample Narrative:

L1858285-01 WG2515278: 7.99 at 20.2C

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Chloride	69.3		1.00	1	05/18/2025 08:00	WG2514104
Sulfate	89.7		5.00	1	05/18/2025 08:00	WG2514104

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
TOC (Total Organic Carbon)	14.2		1.00	1	05/15/2025 15:59	WG2515327

Mercury by Method 7470A

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Mercury	ND		0.000200	1	05/15/2025 18:15	WG2514543

Metals (ICP) by Method 6010C

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Silver	ND		0.0100	1	05/20/2025 16:14	WG2516807
Arsenic	ND		0.0100	1	05/20/2025 16:14	WG2516807
Barium	0.119		0.00500	1	05/20/2025 16:14	WG2516807
Calcium	83.0		1.00	1	05/20/2025 16:14	WG2516807
Cadmium	ND		0.00200	1	05/20/2025 16:14	WG2516807
Chromium	ND		0.0100	1	05/20/2025 16:14	WG2516807
Iron	0.700		0.100	1	05/20/2025 16:14	WG2516807
Potassium	16.6		1.00	1	05/20/2025 16:14	WG2516807
Magnesium,Dissolved	46.8		1.00	1	05/20/2025 14:23	WG2516702
Magnesium	46.1		1.00	1	05/20/2025 16:14	WG2516807
Sodium	51.5		1.00	1	05/20/2025 16:14	WG2516807
Lead	ND		0.00500	1	05/20/2025 16:14	WG2516807
Selenium	ND		0.0100	1	05/20/2025 16:14	WG2516807

Method Blank (MB)

(MB) R4216404-1 05/15/25 08:22

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Dissolved Solids	ND		2.82	10.0

L1858284-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1858284-01 05/15/25 08:22 • (DUP) R4216404-3 05/15/25 08:22

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	440	446	1	1.35		10

L1858285-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1858285-01 05/15/25 08:22 • (DUP) R4216404-4 05/15/25 08:22

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	601	590	1	1.85		10

Laboratory Control Sample (LCS)

(LCS) R4216404-2 05/15/25 08:22

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Dissolved Solids	8800	8600	97.7	90.0-110	

Method Blank (MB)

(MB) R4214821-2 05/14/25 15:32

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

L1858285-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1858285-01 05/14/25 16:05 • (DUP) R4214821-3 05/14/25 16:12

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Alkalinity	315	318	1	1.13		20
Alkalinity,Bicarbonate	315	318	1	1.13		20

Sample Narrative:

OS: Endpoint pH 4.5 Headspace

DUP: Endpoint pH 4.5

L1858447-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1858447-01 05/14/25 18:12 • (DUP) R4214821-4 05/14/25 18:19

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Alkalinity	396	397	1	0.408		20
Alkalinity,Bicarbonate	396	397	1	0.408		20

Sample Narrative:

OS: Endpoint pH 4.5 Headspace

DUP: Endpoint pH 4.5

Laboratory Control Sample (LCS)

(LCS) R4214821-1 05/14/25 15:25

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Alkalinity	100	107	107	90.0-110	

Laboratory Control Sample (LCS)

(LCS) R4214821-1 05/14/25 15:25

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) R4214771-6 05/14/25 13:08

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Ammonia Nitrogen	ND		0.0317	0.100

L1858304-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1858304-02 05/14/25 12:49 • (DUP) R4214771-3 05/14/25 12:50

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

L1858304-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1858304-04 05/14/25 12:55 • (DUP) R4214771-5 05/14/25 12:56

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Ammonia Nitrogen	ND	ND	1	2.99		10

Laboratory Control Sample (LCS)

(LCS) R4214771-7 05/14/25 13:10

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Ammonia Nitrogen	7.50	7.74	103	90.0-110	

L1858304-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1858304-01 05/14/25 13:41 • (MS) R4214771-1 05/14/25 12:46 • (MSD) R4214771-2 05/14/25 12:47

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 %
Ammonia Nitrogen	5.00	ND	5.22	5.30	104	106	1	90.0-110			1.56	10

L1858304-03 Original Sample (OS) • Matrix Spike (MS)

(OS) L1858304-03 05/14/25 12:52 • (MS) R4214771-4 05/14/25 12:53

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Ammonia Nitrogen	5.00	ND	5.38	108	1	90.0-110	

Method Blank (MB)

(MB) R4217115-1 05/19/25 00:48

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Nitrate-Nitrite	0.0320		0.0197	0.100

Laboratory Control Sample (LCS)

(LCS) R4217115-2 05/19/25 00:49

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Nitrate-Nitrite	2.50	2.56	103	90.0-110	

L1857782-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1857782-01 05/19/25 00:54 • (MS) R4217115-3 05/19/25 00:57 • (MSD) R4217115-4 05/19/25 00:59

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	0.120	2.57	2.66	97.9	102	1	90.0-110			3.71	20

L1858189-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1858189-01 05/19/25 01:01 • (MS) R4217115-5 05/19/25 01:03 • (MSD) R4217115-6 05/19/25 01:06

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 %
Nitrate-Nitrite	2.50	0.671	3.28	3.35	104	107	1	90.0-110			2.11	20

Method Blank (MB)

(MB) R4214505-1 05/14/25 12:15

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
COD	6.16		3.00	10.0

L1858095-07 Original Sample (OS) • Duplicate (DUP)

(OS) L1858095-07 05/14/25 12:18 • (DUP) R4214505-7 05/14/25 12:19

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
COD	15.4	15.6	1	1.06		20

L1858143-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1858143-05 05/14/25 12:21 • (DUP) R4214505-8 05/14/25 12:21

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
COD	ND	ND	1	0.000		20

Laboratory Control Sample (LCS)

(LCS) R4214505-2 05/14/25 12:16

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
COD	500	501	100	90.0-110	

L1857751-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1857751-01 05/14/25 12:16 • (MS) R4214505-3 05/14/25 12:16 • (MSD) R4214505-4 05/14/25 12:16

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	19.5	512	509	98.6	97.9	1	90.0-110			0.674	20

L1857752-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1857752-01 05/14/25 12:17 • (MS) R4214505-5 05/14/25 12:17 • (MSD) R4214505-6 05/14/25 12:17

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	20.3	514	515	98.8	98.8	1	90.0-110			0.0214	20

QUALITY CONTROL SUMMARY

L1858285-01

Method Blank (MB)

(MB) R4218474-1 05/21/25 17:39

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Cyanide	ND		0.00180	0.00500

L1855773-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1855773-01 05/21/25 17:41 • (DUP) R4218474-3 05/21/25 17:43

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Cyanide	ND	ND	1	0.000		20

L1858322-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1858322-02 05/21/25 18:19 • (DUP) R4218474-6 05/21/25 18:20

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Cyanide	ND	ND	1	0.000		20

Laboratory Control Sample (LCS)

(LCS) R4218474-2 05/21/25 17:40

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Cyanide	0.100	0.103	103	87.1-120	

L1857919-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1857919-01 05/21/25 17:59 • (MS) R4218474-4 05/21/25 18:00 • (MSD) R4218474-5 05/21/25 18:02

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 %
Cyanide	0.100	ND	0.0928	0.104	92.8	104	1	90.0-110			11.4	20

L1857789-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1857789-01 05/14/25 23:40 • (DUP) R4214923-2 05/14/25 23:40

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	su	su		%		%
pH	7.82	7.83	1	0.128		1

Sample Narrative:

OS: 7.82 at 20.6C

DUP: 7.83 at 20.5C

L1858447-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1858447-02 05/14/25 23:40 • (DUP) R4214923-3 05/14/25 23:40

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	su	su		%		%
pH	6.70	6.71	1	0.149		1

Sample Narrative:

OS: 6.7 at 20.6C

DUP: 6.71 at 20.6C

Laboratory Control Sample (LCS)

(LCS) R4214923-1 05/14/25 23:40

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	su	su	%	%	
pH	10.0	10.0	100	99.0-101	

Sample Narrative:

LCS: 10.01 at 21.2C

Method Blank (MB)

(MB) R4216442-1 05/18/25 01:13

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Chloride	0.0733		0.0519	1.00
Sulfate	ND		0.0774	5.00

L1858143-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1858143-03 05/18/25 02:51 • (DUP) R4216442-3 05/18/25 03:07

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	1.67	1.55	1	7.53		15
Sulfate	49.2	48.2	1	1.92		15

L1858162-12 Original Sample (OS) • Duplicate (DUP)

(OS) L1858162-12 05/18/25 06:39 • (DUP) R4216442-6 05/18/25 06:55

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	6.95	6.89	1	0.978		15
Sulfate	10.8	10.7	1	0.644		15

Laboratory Control Sample (LCS)

(LCS) R4216442-2 05/18/25 01:29

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	40.0	37.4	93.6	80.0-120	
Sulfate	40.0	38.1	95.4	80.0-120	

L1858143-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1858143-03 05/18/25 02:51 • (MS) R4216442-4 05/18/25 03:23 • (MSD) R4216442-5 05/18/25 03:40

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 %
Chloride	40.0	1.67	39.6	39.6	94.9	94.7	1	80.0-120			0.165	15
Sulfate	40.0	49.2	77.6	78.2	71.0	72.5	1	80.0-120	J6	J6	0.792	15

L1858162-12 Original Sample (OS) • Matrix Spike (MS)

(OS) L1858162-12 05/18/25 06:39 • (MS) R4216442-7 05/18/25 07:11

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	40.0	6.95	43.6	91.6	1	80.0-120	
Sulfate	40.0	10.8	47.6	91.9	1	80.0-120	

Method Blank (MB)

(MB) R4215575-2 05/15/25 12:37

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
TOC (Total Organic Carbon)	0.194		0.102	1.00

L1858275-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1858275-01 05/15/25 14:35 • (DUP) R4215575-5 05/15/25 14:48

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
TOC (Total Organic Carbon)	1.61	1.83	1	12.3		20

Laboratory Control Sample (LCS)

(LCS) R4215575-1 05/15/25 12:24

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
TOC (Total Organic Carbon)	25.0	25.3	101	80.0-120	

L1858274-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1858274-01 05/15/25 13:37 • (MS) R4215575-3 05/15/25 13:53 • (MSD) R4215575-4 05/15/25 14:09

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	1.99	27.0	27.1	99.9	100	1	75.0-125			0.444	20

Method Blank (MB)

(MB) R4215524-1 05/15/25 17:03

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) R4215524-2 05/15/25 17:06

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Mercury	0.00300	0.00312	104	80.0-120	

L1858241-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1858241-06 05/15/25 17:08 • (MS) R4215524-4 05/15/25 17:20 • (MSD) R4215524-5 05/15/25 17:23

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	0.00306	0.00308	102	103	1	75.0-125			0.766	20

Method Blank (MB)

(MB) R4217854-1 05/20/25 13:48

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) R4217854-2 05/20/25 13:50

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Magnesium,Dissolved	10.0	9.84	98.4	80.0-120	

L1857605-12 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1857605-12 05/20/25 13:52 • (MS) R4217854-4 05/20/25 13:55 • (MSD) R4217854-5 05/20/25 13:57

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	19.7	29.0	29.3	93.1	96.2	1	75.0-125			1.05	20

Method Blank (MB)

(MB) R4217857-1 05/20/25 15:49

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	ND	J	0.000700	0.00200
Chromium	ND		0.00140	0.0100
Iron	ND		0.0141	0.100
Potassium	ND		0.102	1.00
Magnesium	0.0136		0.0111	1.00
Sodium	1.13	J	0.0111	1.00
Lead	ND		0.00190	0.00500
Selenium	ND	J	0.00740	0.0100

Laboratory Control Sample (LCS)

(LCS) R4217857-2 05/20/25 15:51

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Silver	0.200	0.218	109	80.0-120	
Arsenic	1.00	1.07	107	80.0-120	
Barium	1.00	1.08	108	80.0-120	
Calcium	10.0	10.3	103	80.0-120	
Cadmium	1.00	1.04	104	80.0-120	
Chromium	1.00	1.08	108	80.0-120	
Iron	10.0	10.2	102	80.0-120	
Potassium	10.0	10.2	102	80.0-120	
Magnesium	10.0	10.4	104	80.0-120	
Sodium	10.0	10.4	104	80.0-120	
Lead	1.00	1.04	104	80.0-120	
Selenium	1.00	1.05	105	80.0-120	

L1858197-20 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1858197-20 05/20/25 15:53 • (MS) R4217857-4 05/20/25 15:56 • (MSD) R4217857-5 05/20/25 15:58

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	0.223	0.223	112	111	1	75.0-125			0.197	20
Arsenic	1.00	ND	1.10	1.11	110	111	1	75.0-125			0.162	20
Barium	1.00	0.246	1.32	1.32	107	107	1	75.0-125			0.0881	20

L1858197-20 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1858197-20 05/20/25 15:53 • (MS) R4217857-4 05/20/25 15:56 • (MSD) R4217857-5 05/20/25 15:58

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	87.1	97.3	97.5	102	105	1	75.0-125			0.265	20
Cadmium	1.00	ND	1.06	1.06	106	106	1	75.0-125			0.117	20
Chromium	1.00	ND	1.08	1.08	108	107	1	75.0-125			0.568	20
Iron	10.0	0.229	10.4	10.3	102	101	1	75.0-125			0.849	20
Potassium	10.0	29.7	40.0	40.1	103	104	1	75.0-125			0.267	20
Magnesium	10.0	30.0	40.7	40.7	107	107	1	75.0-125			0.106	20
Sodium	10.0	63.4	70.3	71.6	68.5	81.8	1	75.0-125	V		1.87	20
Lead	1.00	ND	1.07	1.07	107	107	1	75.0-125			0.0157	20
Selenium	1.00	ND	1.08	1.08	108	108	1	75.0-125			0.100	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.
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.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
T8	Sample(s) received past/too close to holding time expiration.
V	The sample concentration is too high to evaluate accurate spike recoveries.

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: **Sam Kanakkanatt 320-864-5503**

Email To: **ddemory@wm.com;skanakka@wm.com;cory.a**

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): JH

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

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		
									7.12 REV	4.2				4.2	4.2		
GW Holding Pond		GW		12may25	1130	10	X	X	X	X	X	X	X	X	X		-01

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 # L1858285

H067

Acctnum: **WMDICIA**
Template: **T273312**
Prelogin: **P1149586**
PM: **650 - Linda Cashman**
PB: BF 5/2/25

Shipped Via: **FedEX Ground**

Remarks | Sample # (lab only)

* 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 # 4439 2457 4619

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)
	5-12-25	1700	
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: TLA 9°C 1.2 ta Y=1.6 Bottles Received: 10

Date: 5/13/25 Time: 845

If preservation required by Login: Date/Time

Hold:

Condition: NCF / (OK)

FIELD INFORMATION FORM

Surface Water, Stormwater and Leachate

WASTE MANAGEMENT

Site Name: Dickinson SLF

Sample I.D. Holding Pond

Laboratory Use Only / Lab I.D.: L1858285

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)

Sample Type: 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)
05/12/2025	1130	7.67	985	21.81	3.4	9.10	190

Record final stabilized field readings.

Field Observations

Sample Appearance: Odor: None Color: Tan Other: 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: South/16 Precipitation: [Y] or [N]

Specific Comments:

Date	Name	Signature	Company
05/12/2025	Nick	[signature]	MVTL

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Subouts ------
Pace Analytical National
12065 Lebanon Rd
Mt Juliet, Tennessee 37122

Generated 5/29/2025 10:19:35 AM

JOB DESCRIPTION

Pace Analytical - WM Reporting

JOB NUMBER

280-208112-1

Eurofins Denver
4955 Yarrow Street
Arvada CO 80002

See page two for job notes and contact information.

my EOL

Eurofins Denver

Job Notes

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Authorization



Generated
5/29/2025 10:19:35 AM

Authorized for release by
Nicole Ryan, Project Manager I
Nicole.Ryan@ET.eurofinsus.com
(303)736-0100

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Definitions/Glossary

Client: Pace Analytical National
Project/Site: Pace Analytical - WM Reporting

Job ID: 280-208112-1

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 280-208112-1 Eurofins Denver

Job Narrative
280-208112-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The sample was received on 5/23/2025 9:20 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.0°C.

General Chemistry
Method 1664B: Analysis for Hexane Extractable Material (HEM) was performed for the following samples: GW Holding Pond (280-208112-1). Since the HEM results were below the reporting limit (RL), the results for Silica Gel Treated - Hexane Extractable Material (SGT-HEM) were reported as non-detects. All HEM quality control criteria were met.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Pace Analytical National
Job ID: 280-208112-1
Project/Site: Pace Analytical - WM Reporting

Client Sample ID: GW Holding Pond
Lab Sample ID: 280-208112-1

No Detections.

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Pace Analytical National
Project/Site: Pace Analytical - WM Reporting

Job ID: 280-208112-1

Method	Method Description	Protocol	Laboratory
1664B	HEM and SGT-HEM	1664B	EET DEN
1664B	HEM and SGT-HEM (SPE)	1664B	EET DEN

Protocol References:

1664B = EPA-821-98-002

Laboratory References:

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Sample Summary

Client: Pace Analytical National
Project/Site: Pace Analytical - WM Reporting

Job ID: 280-208112-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-208112-1	GW Holding Pond	Water	05/12/25 11:30	05/23/25 09:20

Client: Pace Analytical National
Project/Site: Pace Analytical - WM Reporting

Job ID: 280-208112-1

General Chemistry

Client Sample ID: GW Holding Pond
Date Collected: 05/12/25 11:30
Date Received: 05/23/25 09:20

Lab Sample ID: 280-208112-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HEM (Oil and Grease) (1664B)	ND		5.3		mg/L		05/27/25 11:47	05/27/25 18:03	1
SGT-HEM (Total Petroleum Hydrocarbons) (1664B)	ND		6.3		mg/L		05/27/25 11:47	05/27/25 18:03	1

QC Sample Results

Client: Pace Analytical National
Project/Site: Pace Analytical - WM Reporting

Job ID: 280-208112-1

Method: 1664B - HEM and SGT-HEM

Lab Sample ID: MB 280-697546/2-A
Matrix: Water
Analysis Batch: 697618

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 697546

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HEM (Oil and Grease)	ND		5.0		mg/L		05/27/25 11:47	05/27/25 18:03	1
SGT-HEM (Total Petroleum Hydrocarbons)	ND		6.0		mg/L		05/27/25 11:47	05/27/25 18:03	1

Lab Sample ID: LCS 280-697546/1-A
Matrix: Water
Analysis Batch: 697618

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 697546

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
HEM (Oil and Grease)	40.0	34.5		mg/L		86	78 - 114
SGT-HEM (Total Petroleum Hydrocarbons)	20.0	14.2		mg/L		71	64 - 132

QC Association Summary

Client: Pace Analytical National
Job ID: 280-208112-1
Project/Site: Pace Analytical - WM Reporting

General Chemistry

Prep Batch: 697546

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-208112-1	GW Holding Pond	Total/NA	Water	1664B	
MB 280-697546/2-A	Method Blank	Total/NA	Water	1664B	
LCS 280-697546/1-A	Lab Control Sample	Total/NA	Water	1664B	

Analysis Batch: 697618

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-208112-1	GW Holding Pond	Total/NA	Water	1664B	697546
MB 280-697546/2-A	Method Blank	Total/NA	Water	1664B	697546
LCS 280-697546/1-A	Lab Control Sample	Total/NA	Water	1664B	697546

Lab Chronicle

Client: Pace Analytical National
Project/Site: Pace Analytical - WM Reporting

Job ID: 280-208112-1

Client Sample ID: GW Holding Pond

Date Collected: 05/12/25 11:30
Date Received: 05/23/25 09:20

Lab Sample ID: 280-208112-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	1664B			949 mL	1000 mL	697546	05/27/25 11:47	SAH	EET DEN
Total/NA	Analysis	1664B		1			697618	05/27/25 18:03	SAH	EET DEN

Laboratory References:

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Accreditation/Certification Summary

Client: Pace Analytical National
Job ID: 280-208112-1
Project/Site: Pace Analytical - WM Reporting

Laboratory: Eurofins Denver

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Iowa	State	370	12-01-26

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
1664B	1664B	Water	SGT-HEM (Total Petroleum Hydrocarbons)

Sub-Contract Chain of Custody

Batch Date/Time: 05/15/25 14:16
Sub-Contract Lab: TADCO
Address: 4955 Yarrow Street
City/State: Arvada, CO 80002
Contact:
nicole.ryan@et.eurofinsus.com
Owner Lab: PACEMTJL
Address: 12065 Lebanon Rd.
City/State: Mt. Juliet, TN 37122
Phone: (615) 773-9756
Fax: (615) 758-5859

WO: WG2515941
Email: MTJLSuboutTeam@pacelabs.com
Results Due Date: 05/23/25
ESC Purchase Order #: L1858285
Send Reports to: James C Huckaba

Pace Analytical®

12065 Lebanon Rd.
Mt. Juliet, TN 37122
Phone:(615) 773-9756
Fax:(615) 758-5859

Sample ID Container ID	Matrix	State	Collect Date	Description	Method	Sample Number Lab Use Only	Sample Comments Lab Use Only
GW Holding Pond	GW	IA	05/12/25 11:30	Oil & Grease (Hexane Extr)	1664A	1. L1858285-01	EDDs needed: Waste Management EQuIS, Stantec EFW, Waste Management DUMPSTAT

Relinquished by: _____ Date 5-21-25

Received by: GB Date 5/22/25 9:20

T: 2.8 CF: 0.2
FR: PADU

Relinquished by: _____ Date _____

Received by: _____ Date _____

280-208112 Chain of Custody



Part # 159470-434 MTW EXP 12/25

280-208112 Waybill

ORIGIN ID:BNAA (615) 758-5858
SHIPPING
PACE ANALYTICAL NATIONAL
12065 LEBANON PIKE

MOUNT JULIET, TN 37122
UNITED STATES US

SHIP DATE: 21MAY25
ACTWGT: 34.35 LB
CAD: 0113069/CAFE3907

BILL SENDER

TO MATTHEW O GARDNER
TESTAMERICA – DENVER, CO
4955 YARROW STREET

ARVADA CO 80002
(615) 758-5858 REF: TADCO
PO: TADCO

58CC4/EA36/FE2D

FedEx Express

J25102411140 1uv

THU – 22 MAY 10:30A
PRIORITY OVERNIGHT

TRK# 0201 4439 2461 3550

NX LAAA

80002
CO-US DEN

Login Sample Receipt Checklist

Client: Pace Analytical National

Job Number: 280-208112-1

Login Number: 208112
List Number: 1
Creator: Held, Wesley

List Source: Eurofins Denver

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Subouts ------
Pace Analytical National
12065 Lebanon Rd
Mt Juliet, Tennessee 37122

Generated 5/29/2025 10:19:35 AM

JOB DESCRIPTION

Pace Analytical - WM Reporting

JOB NUMBER

280-208112-1

Eurofins Denver
4955 Yarrow Street
Arvada CO 80002

See page two for job notes and contact information.

my EOL

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins TestAmerica Project Manager.

Authorization



Generated
5/29/2025 10:19:35 AM

Authorized for release by
Nicole Ryan, Project Manager I
Nicole.Ryan@ET.eurofinsus.com
(303)736-0100

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Definitions/Glossary

Client: Pace Analytical National
Project/Site: Pace Analytical - WM Reporting

Job ID: 280-208112-1

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 280-208112-1 Eurofins Denver

Job Narrative
280-208112-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The sample was received on 5/23/2025 9:20 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.0°C.

General Chemistry
Method 1664B: Analysis for Hexane Extractable Material (HEM) was performed for the following samples: GW Holding Pond (280-208112-1). Since the HEM results were below the reporting limit (RL), the results for Silica Gel Treated - Hexane Extractable Material (SGT-HEM) were reported as non-detects. All HEM quality control criteria were met.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Pace Analytical National
Job ID: 280-208112-1
Project/Site: Pace Analytical - WM Reporting

Client Sample ID: GW Holding Pond
Lab Sample ID: 280-208112-1

No Detections.

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Pace Analytical National
Project/Site: Pace Analytical - WM Reporting

Job ID: 280-208112-1

Method	Method Description	Protocol	Laboratory
1664B	HEM and SGT-HEM	1664B	EET DEN
1664B	HEM and SGT-HEM (SPE)	1664B	EET DEN

Protocol References:

1664B = EPA-821-98-002

Laboratory References:

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Sample Summary

Client: Pace Analytical National
Project/Site: Pace Analytical - WM Reporting

Job ID: 280-208112-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-208112-1	GW Holding Pond	Water	05/12/25 11:30	05/23/25 09:20

Client: Pace Analytical National
Project/Site: Pace Analytical - WM Reporting

Job ID: 280-208112-1

General Chemistry

Client Sample ID: GW Holding Pond
Date Collected: 05/12/25 11:30
Date Received: 05/23/25 09:20

Lab Sample ID: 280-208112-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HEM (Oil and Grease) (1664B)	ND		5.3		mg/L		05/27/25 11:47	05/27/25 18:03	1
SGT-HEM (Total Petroleum Hydrocarbons) (1664B)	ND		6.3		mg/L		05/27/25 11:47	05/27/25 18:03	1

QC Sample Results

Client: Pace Analytical National
Project/Site: Pace Analytical - WM Reporting

Job ID: 280-208112-1

Method: 1664B - HEM and SGT-HEM

Lab Sample ID: MB 280-697546/2-A
Matrix: Water
Analysis Batch: 697618

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 697546

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HEM (Oil and Grease)	ND		5.0		mg/L		05/27/25 11:47	05/27/25 18:03	1
SGT-HEM (Total Petroleum Hydrocarbons)	ND		6.0		mg/L		05/27/25 11:47	05/27/25 18:03	1

Lab Sample ID: LCS 280-697546/1-A
Matrix: Water
Analysis Batch: 697618

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 697546

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
HEM (Oil and Grease)	40.0	34.5		mg/L		86	78 - 114
SGT-HEM (Total Petroleum Hydrocarbons)	20.0	14.2		mg/L		71	64 - 132

QC Association Summary

Client: Pace Analytical National
Job ID: 280-208112-1
Project/Site: Pace Analytical - WM Reporting

General Chemistry

Prep Batch: 697546

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-208112-1	GW Holding Pond	Total/NA	Water	1664B	
MB 280-697546/2-A	Method Blank	Total/NA	Water	1664B	
LCS 280-697546/1-A	Lab Control Sample	Total/NA	Water	1664B	

Analysis Batch: 697618

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-208112-1	GW Holding Pond	Total/NA	Water	1664B	697546
MB 280-697546/2-A	Method Blank	Total/NA	Water	1664B	697546
LCS 280-697546/1-A	Lab Control Sample	Total/NA	Water	1664B	697546

Lab Chronicle

Client: Pace Analytical National
Project/Site: Pace Analytical - WM Reporting

Job ID: 280-208112-1

Client Sample ID: GW Holding Pond

Date Collected: 05/12/25 11:30
Date Received: 05/23/25 09:20

Lab Sample ID: 280-208112-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	1664B			949 mL	1000 mL	697546	05/27/25 11:47	SAH	EET DEN
Total/NA	Analysis	1664B		1			697618	05/27/25 18:03	SAH	EET DEN

Laboratory References:

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Accreditation/Certification Summary

Client: Pace Analytical National
Job ID: 280-208112-1
Project/Site: Pace Analytical - WM Reporting

Laboratory: Eurofins Denver

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Iowa	State	370	12-01-26

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
1664B	1664B	Water	SGT-HEM (Total Petroleum Hydrocarbons)

Sub-Contract Chain of Custody

Batch Date/Time: 05/15/25 14:16
Sub-Contract Lab: TADCO
Address: 4955 Yarrow Street
City/State: Arvada, CO 80002
Contact:
nicole.ryan@et.eurofinsus.com
Owner Lab: PACEMTJL
Address: 12065 Lebanon Rd.
City/State: Mt. Juliet, TN 37122
Phone: (615) 773-9756
Fax: (615) 758-5859

WO: WG2515941
Email: MTJLSuboutTeam@pacelabs.com
Results Due Date: 05/23/25
ESC Purchase Order #: L1858285
Send Reports to: James C Huckaba

Pace Analytical®

12065 Lebanon Rd.
Mt. Juliet, TN 37122
Phone:(615) 773-9756
Fax:(615) 758-5859

Sample ID Container ID	Matrix	State	Collect Date	Description	Method	Sample Number Lab Use Only	Sample Comments Lab Use Only
GW Holding Pond	GW	IA	05/12/25 11:30	Oil & Grease (Hexane Extr)	1664A	1. L1858285-01	EDDs needed: Waste Management EQuIS, Stantec EFW, Waste Management DUMPSTAT

Relinquished by: _____ Date 5-21-25

Received by: GB Date 5/22/25 9:20

T: 2.8 CF: 0.2
FR: PADU

Relinquished by: _____ Date _____

Received by: _____ Date _____

280-208112 Chain of Custody



Part # 159470-434 MTW EXP 12/25

280-208112 Waybill

ORIGIN ID:BNAA (615) 758-5858
SHIPPING
PACE ANALYTICAL NATIONAL
12065 LEBANON PIKE

MOUNT JULIET, TN 37122
UNITED STATES US

SHIP DATE: 21MAY25
ACTWGT: 34.35 LB
CAD: 0113069/CAFE3907

BILL SENDER

TO MATTHEW O GARDNER
TESTAMERICA – DENVER, CO
4955 YARROW STREET

ARVADA CO 80002
(615) 758-5858 REF: TADCO
PO: TADCO

58CC4/EA36/FE2D

FedEx Express

J25102411140 1uv

THU – 22 MAY 10:30A
PRIORITY OVERNIGHT

TRK# 0201 4439 2461 3550

NX LAAA

80002
CO-US DEN

Login Sample Receipt Checklist

Client: Pace Analytical National

Job Number: 280-208112-1

Login Number: 208112
List Number: 1
Creator: Held, Wesley

List Source: Eurofins Denver

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

ANALYTICAL REPORT

July 21, 2025

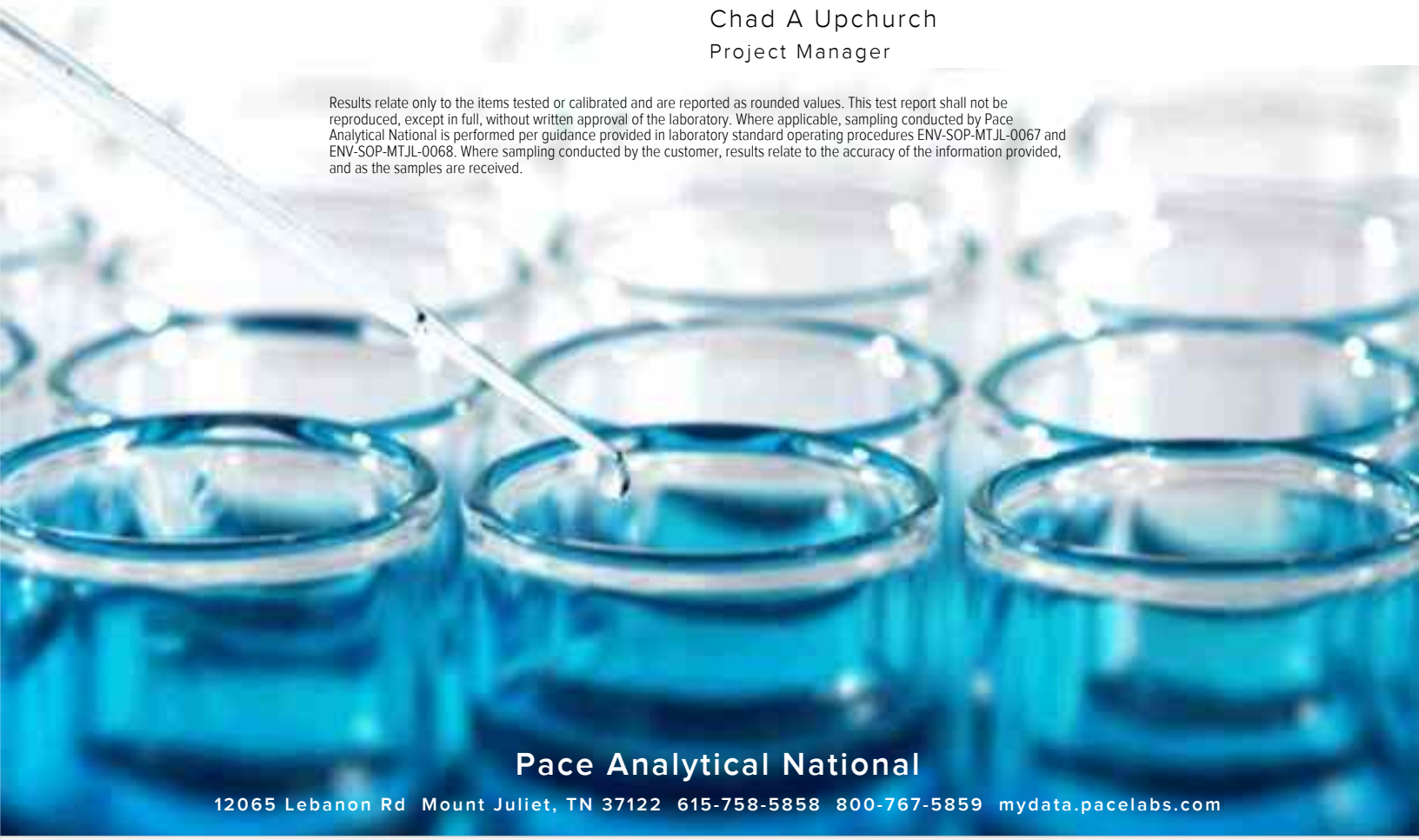
Dickinson Landfill

Sample Delivery Group:	L1877468
Samples Received:	07/10/2025
Project Number:	200
Description:	Semiannual GW Detection & Major Ions (6)
Site:	IA01
Report To:	Andy McCain C/O Spruce Ridge 12755 137th Street 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-23A L1877468-01

Collected by	Collected date/time	Received date/time
JH	07/09/25 08:54	07/10/25 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010C	WG2559033	1	07/15/25 23:00	07/16/25 16:18	BAG	Mt. Juliet, TN

CASE NARRATIVE

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.

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
Depth to water (DTW) (FROM TOC)	13.18	ftmsl
pH (On Site)	6.75	su
Specific Conductance (on site)	1014	umhos/cm
Temperature (on-site)	12	Deg. C
Turbidity (on-site)	0	NTU
Dissolved Oxygen (on-site)	0.8	mg/l
eH/ORP (On Site)	-79.2	mV

Metals (ICP) by Method 6010C

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Arsenic	0.0148		0.0100	1	07/16/2025 16:18	WG2559033

Method Blank (MB)

(MB) R4246001-1 07/16/25 15:24

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Arsenic	ND		0.00650	0.0100

Laboratory Control Sample (LCS)

(LCS) R4246001-2 07/16/25 15:26

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic	1.00	0.975	97.5	80.0-120	

L1877465-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1877465-05 07/16/25 15:27 • (MS) R4246001-4 07/16/25 15:31 • (MSD) R4246001-5 07/16/25 15:33

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 %
Arsenic	1.00	ND	1.01	1.02	101	102	1	75.0-125			1.59	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

The remainder of this page intentionally left blank, there are no qualifiers applied to this SDG.

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:
Semiannual GW Detection & Major Ions (6)

City/State Collected:

Please Circle: PT MT CT ET

Regulatory Program(DOD,RCRA,DW,etc):

Client Project #
200

Lab Project #
WMDICIA-00003

Collected by (print):
JH

Site/Facility ID #
IA01

P.O. #
14992508

Collected by (signature):
JH Hobbs

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

ASICP 250mlHDPE-HNO3

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	ASICP 250mlHDPE-HNO3	Remarks	Sample # (lab only)
MW-23A	Grab	GW	—	7-9-25	8:54	1	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 # 187468
B111

Acctnum: **WMDICIA**
Template: **T276489**
Prelogin: **P1162659**
PM: **3564 - Chad A Upchurch**
PB: 6/26/25 mV
Shipped Via: **FedEX Standard**

* 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 # 4590 6312 3987

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

	Date:	Time:		
Relinquished by : (Signature)	7-9-25	12:00	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 7.4 °C Bottles Received: 1
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature) Anna Mitchell	Date: 7/10/25 Time: 0830

If preservation required by Login: Date/Time

Hold: Condition: NCF / OK

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: Dickinson SLF
Site No.: ____ Sample Point: ____ 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: L1877468

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
07 09 25	8:30	:24	1.8	12.0	6.0

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 ____
Sample Tube Type: A-Teflon B-Stainless Steel C-PVC D-Polypropylene X-Other: ____
X-Other: ____

WELL DATA

Well Elevation (at TOC)	Depth to Water (DTW) (from TOC)	Groundwater Elevation (site datum, from TOC)
1501.73 (ft/msl)	13.18 (ft)	1488.55 (ft/msl)

Total Well Depth (from TOC): 242.2 (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) 4

Sample Time (2400 Hr Clock)	Rate/Unit 5	pH (std)	Conductance (SC/EC) (µmhos/cm @ 25 °C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
8:34	2 1st	6.64 1st	1055	12.0	.0	0.8	-64.6	13.4
8:38	4 2nd	6.68 2nd	1061	12.1	.0	0.7	-86.4	13.8
8:42	6 3rd	6.69 3rd	1030	12.0	.0	0.6	-91.4	14.1
8:46	8 4th	6.72 4th	1018	12.0	.0	0.7	-78.3	14.1
8:50	10	6.74	1014	12.0	.0	0.8	-79.1	14.1
8:54	12	6.75	1014	12.0	.0	0.8	-79.2	14.0
:								
:								
:								
:								
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 ____
07 09 25	6.75	1014	12.0	.0	0.8	-79.2	

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: ____ Outlook: 71° Sunny 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
7 9 25	JH	JH	MVTL
/ /			

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client

ORIGINAL COPY

ATTACHMENT B – Otter Creek Statistical Report

GROUND WATER STATISTICS

FOR THE

DICKINSON COUNTY LANDFILL

First 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

August 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 first semi-annual monitoring event in 2025 are summarized in Attachment A.

STATISTICAL METHODOLOGIES FOR DETECTION MONITORING

IAC 567, Chapter 113.10(4) provides several options for statistically evaluating the ground water data at those wells that monitor the open cells or contiguous MSWLF units. The preferred methods for comparing ground water data are using either prediction limits or using control charts. 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 First Semi-Annual Monitoring Event in 2025

Well	Trace Metal	Result	Prediction Limit	Prediction Limit Type	Verified or Awaiting Verification
Holding Pond	Nickel, µg/L	22.1	21.0000	Nonparametric	Verified
MW-19A	Nickel, µg/L	38.6	21.0000	Nonparametric	Verified
MW-23A	Arsenic, µg/L	10.8	10.0000	Nonparametric	Awaiting Verification
	Barium, µg/L	1600	451.0000	Nonparametric	Verified
	Cobalt, µg/L	11.3	11.0000	Nonparametric	Awaiting Verification
MW-37A	Arsenic, µg/L	53.4	10.0000	Nonparametric	Verified
	Barium, µg/L	1320	451.0000	Nonparametric	Verified
	Cobalt, µg/L	23.0	11.0000	Nonparametric	Verified
	Nickel, µg/L	278	21.0000	Nonparametric	Verified
MW-38A	Nickel, µg/L	31.7	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.

MW-23A was resampled on July 9, 2025 and analyzed for arsenic. The resample arsenic concentration determined at MW-23A (14.8 µg/L) exceeded nonparametric prediction limit of 10 µg/L, confirming the initial result.

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 (3.674 µg/L) exceeds the GWPS of 2.1 µg/L. The 95% LCL for arsenic at MW-37A (42.433 µg/L) exceeds the USEPA MCL of 10 µg/L. The 95% LCL for cobalt at MW-37A (17.641 µg/L) exceeds the GWPS of 2.1 µg/L. The 95% LCL for nickel at MW-37A (162.867 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-36A, MW-37A, MW-38A, MW-39A, and MW-40A were evaluated using the combined Shewhart-CUSUM control chart method. The previous background at MW-11A, MW-12A, MW-13A, MW-19A, MW-21A, MW-23A, MW-34A, MW-36A, MW-37A, MW-38A, and MW-39A included the data obtained from April 2008 through 2015. MW40A includes data obtained through August 2016. The background at MW-11A, MW-12A, MW-13A, MW-19A, MW-21A, MW-34A, MW-36A, MW-38A, MW-39A, and MW-40A was updated to include the data obtained from April 2008 through June 2020. 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 First Semi-Annual Monitoring Event in 2025

Well	Trace Metal	Result	CUSUM Value	Control Limit	Control Limit Type	Verified or Awaiting Verification
Holding Pond	Nickel, µg/L	22.1	--	13.7000	Nonparametric	Verified
MW-12A	Barium, µg/L	267	400.3889	382.0304	Normal	Verified
	Nickel, µg/L	14.5	--	11.0000	Nonparametric	Verified
MW-13A	Barium, µg/L	396	718.6574	594.7669	Normal	Verified
MW-19A	Nickel, µg/L	38.6	50.6708	34.8948	Normal	Verified
MW-23A	Arsenic, µg/L	10.8	--	10.0000	Nonparametric	Awaiting Verification
	Barium, µg/L	1600	1766.3572	417.0333	Normal	Verified
	Cobalt, µg/L	11.3	--	10.0000	Nonparametric	Awaiting Verification
	Nickel, µg/L	13.6	--	10.0000	Nonparametric	Awaiting Verification
MW-36A	Nickel, µg/L	71.3	--	10.0000	Nonparametric	Awaiting Verification
MW-37A	Arsenic, µg/L	53.4	--	12.0000	Nonparametric	Verified
	Barium, µg/L	1320	1767.5559	848.7031	Normal	Verified
	Cobalt, µg/L	23.0	31.6431	20.1553	Normal	Verified
	Nickel, µg/L	278	359.4670	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 18% and the test becomes sensitive to 4 standard deviation units over background.

MW-23A was resampled on July 9, 2025 and analyzed for arsenic. The resample arsenic concentration determined at MW-23A (14.8 µg/L) exceeded nonparametric prediction limit of 10 µg/L, confirming the initial result.

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 first semi-annual monitoring event in 2025 are summarized in the table below.

VOCs detected during the first semi-annual monitoring event in 2025

Well	VOC Detected	Result, µg/L	Reporting Limit, µg/L	Verified/ Awaiting verification	Groundwater Standard, µg/L
MW-12A	1,1-Dichloroethane	27.0	1	Verified	140[b]
	1,2-Dichloropropane	1.75	1	Verified	5[a]
	Benzene	1.42	1	Verified	5[a]
	Chloroethane	13.7	2.5	Verified	2800[b]
	cis-1,2-Dichloroethene	30.2	1	Verified	70[a]
	trans-1,2-Dichloroethene	3.88	1	Verified	100[a]
	Vinyl chloride	25.1	1	Verified	2[a]
MW-23A	*cis*-1,2-Dichloroethene	1.35	1	Verified	70[a]
	Trichloroethene	3.02	1	Verified	5[a]
MW-37A	Chloroethane	3.41	2.5	Verified	2800[b]
MW-38A	1,1-Dichloroethane	1.82	1	Verified	140[b]
	cis-1,2-Dichloroethene	1.31	1	Awaiting Verification	70[a]

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 (10.331 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 First Semi-Annual Monitoring Event in 2025

Table 1

Analytical Data Summary for 5/12/2025

Constituents	Units	GW HOLDING POND	Holding Pond	LEACHATE(NEWPOND)	MW-11A	MW-12A	MW-13A	MW-19A	MW-21A	MW-23A	MW-34A
1,1,1,2-Tetrachloroethane	ug/L		<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	ug/L		<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	ug/L		<.3	<1.0	<.3	<.3	<.3	<.3	<.3	<.3	<.3
1,1,2-Trichloroethane	ug/L		<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	ug/L		<1.00	<1.00	<1.00	27.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1-Dichloroethene	ug/L		<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,3-Trichloropropane	ug/L		<.0058	<2.5000	<.0058	<.0058	<.0058	<.0058	<.0058	<.0058	<.0058
1,2-dibromo-3-chloropropane (dbcp)	ug/L		<.2	<2.5	<.2	<.2	<.2	<.2	<.2	<.2	<.2
1,2-Dibromoethane (EDB)	ug/L		<.05	<1.00	<.05	<.05	<.05	<.05	<.05	<.05	<.05
1,2-Dichlorobenzene	ug/L		<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	ug/L		<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloropropane	ug/L		<1.00	<1.00	<1.00	1.75	<1.00	<1.00	<1.00	<1.00	<1.00
1,4-Dichlorobenzene	ug/L		<1	<1	<1	<1	<1	<1	<1	<1	<1
2-Hexanone	ug/L		<5	<5	<5	<5	<5	<5	<5	<5	<5
Acetone	ug/L		<25	<25	<25	<25	<25	<25	<25	<25	<25
Acrylonitrile	ug/L		<.32	<5.00	<.32	<.32	<.32	<.32	<.32	<.32	<.32
Alkalinity, bicarbonate (as caco3)	mg/L	315	317	4160	419	920	472	441	371	599	557
Alkalinity, carbonate (as caco3)	mg/L		<20	152	<20	<20	<20	<20	<20	<20	<20
Alkalinity, Total (As CaCO3)	mg/L	315									
Ammonia (As N)	mg/L	2.17		423.00							
Antimony, Total	ug/L		<6	<6	<6	<6	<6	<6	<6	<6	<6
Arsenic, Total	ug/L	<10.0	<10.0	103.0	<10.0	<10.0	<10.0	<10.0	<10.0	10.8	<10.0
Barium, Total	ug/L	119.0	116.0	1010.0	235.0	267.0	396.0	208.0	296.0	1600.0	43.7
Benzene	ug/L		<1.00	<1.00	<1.00	1.42	<1.00	<1.00	<1.00	<1.00	<1.00
Beryllium, Total	ug/L		<4	<4	<4	<4	<4	<4	<4	<4	<4
Bromochloromethane	ug/L		<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromoform	ug/L		<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
Cadmium, Total	ug/L	<2	<5	<5	<5	<5	<5	<5	<5	<5	<5
Calcium, Total	mg/L	83.0	81.5	69.4	132.0	201.0	128.0	169.0	126.0	150.0	258.0
Carbon Disulfide	ug/L		<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbon Tetrachloride	ug/L		<1	<1	<1	<1	<1	<1	<1	<1	<1
CBOD	mg/L			14.8							
Chemical Oxygen Demand (COD)	mg/L	54.3		1070.0							
Chloride	mg/L	69.30	73.80	1740.00	27.50	12.00	27.50	76.40	33.40	8.72	8.30
Chlorobenzene	ug/L		<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorodibromomethane	ug/L			<1							
Chloroethane	ug/L		<2.50	<2.50	<2.50	13.70	<2.50	<2.50	<2.50	<2.50	<2.50
Chloroform	ug/L		<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
Chromium, Total	ug/L	<10	<10	88	<10	<10	<10	<10	<10	<10	<10
cis-1,2-Dichloroethene	ug/L		<1.00	<1.00	<1.00	30.20	<1.00	<1.00	<1.00	1.35	<1.00
cis-1,3-Dichloropropene	ug/L		<1	<1	<1	<1	<1	<1	<1	<1	<1
Cobalt, Total	ug/L		<2.00	32.00	<2.00	2.20	2.37	<2.00	<2.00	11.30	4.02
Copper, Total	ug/L		<10	<10	<10	<10	<10	<10	<10	<10	<10
Cyanide	mg/L	<.005									
Dibromochloromethane	ug/L		<1		<1	<1	<1	<1	<1	<1	<1
Dibromomethane	ug/L		<1	<1	<1	<1	<1	<1	<1	<1	<1
Dichlorobromomethane	ug/L		<1	<1	<1	<1	<1	<1	<1	<1	<1
Dissolved Oxygen (on-site)	mg/L		9.1		1.2	.5	4.7	43.0	4.6	2.2	4.5
eH/ORP (On Site)	mV		79.0		156.9	-48.9	89.0	-1.0	71.2	-50.0	-168.1
Ethylbenzene	ug/L		<1	<1	<1	<1	<1	<1	<1	<1	<1
Iodomethane	ug/L		<10	<5	<10	<10	<10	<10	<10	<10	<10
Iron, Total	ug/L	700		3780							

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

Table 1

Analytical Data Summary for 5/12/2025

Constituents	MW-36A	MW-37A	MW-38A	MW-39A	MW-40A
1,1,1,2-Tetrachloroethane	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	<.3	<.3	<.3	<.3	<.3
1,1,2-Trichloroethane	<1	<1	<1	<1	<1
1,1-Dichloroethane	<1.00	<1.00	1.82	<1.00	<1.00
1,1-Dichloroethene	<1	<1	<1	<1	<1
1,2,3-Trichloropropane	<.0058	<.0058	<.0058	<.0058	<.0058
1,2-dibromo-3-chloropropane (dbcp)	<.2	<.2	<.2	<.2	<.2
1,2-Dibromoethane (EDB)	<.05	<.05	<.05	<.05	<.05
1,2-Dichlorobenzene	<1	<1	<1	<1	<1
1,2-Dichloroethane	<1	<1	<1	<1	<1
1,2-Dichloropropane	<1.00	<1.00	<1.00	<1.00	<1.00
1,4-Dichlorobenzene	<1	<1	<1	<1	<1
2-Hexanone	<5	<5	<5	<5	<5
Acetone	<25	<25	<25	<25	<25
Acrylonitrile	<.32	<.32	<.32	<.32	<.32
Alkalinity, bicarbonate (as caco3)	345	556	455	404	320
Alkalinity, carbonate (as caco3)	<20	<20	<20	<20	<20
Alkalinity, Total (As CaCO3)					
Ammonia (As N)					
Antimony, Total	<6	<6	<6	<6	<6
Arsenic, Total	<10.0	53.4	<10.0	<10.0	<10.0
Barium, Total	42.6	1320.0	216.0	275.0	221.0
Benzene	<1.00	<1.00	<1.00	<1.00	<1.00
Beryllium, Total	<4	<4	<4	<4	<4
Bromochloromethane	<1	<1	<1	<1	<1
Bromoform	<1	<1	<1	<1	<1
Bromomethane	<2.5	<2.5	<2.5	<2.5	<2.5
Cadmium, Total	<5	<5	<5	<5	<5
Calcium, Total	223.0	318.0	159.0	123.0	101.0
Carbon Disulfide	<1	<1	<1	<1	<1
Carbon Tetrachloride	<1	<1	<1	<1	<1
CBOD					
Chemical Oxygen Demand (COD)					
Chloride	95.90	753.00	59.80	22.80	9.59
Chlorobenzene	<1	<1	<1	<1	<1
Chlorodibromomethane					
Chloroethane	<2.50	3.41	<2.50	<2.50	<2.50
Chloroform	<1	<1	<1	<1	<1
Chloromethane	<1.25	<1.25	<1.25	<1.25	<1.25
Chromium, Total	<10	<10	<10	<10	<10
cis-1,2-Dichloroethene	<1.00	<1.00	1.31	<1.00	<1.00
cis-1,3-Dichloropropene	<1	<1	<1	<1	<1
Cobalt, Total	<2.00	23.00	<2.00	<2.00	<2.00
Copper, Total	<10	<10	<10	<10	<10
Cyanide					
Dibromochloromethane	<1	<1	<1	<1	<1
Dibromomethane	<1	<1	<1	<1	<1
Dichlorobromomethane	<1	<1	<1	<1	<1
Dissolved Oxygen (on-site)	2.1	.4	.4	7.8	2.3
eH/ORP (On Site)	141.3	-53.2	57.8	72.7	80.8
Ethylbenzene	<1	<1	<1	<1	<1
Iodomethane	<10	<10	<10	<10	<10
Iron, Total					

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

Table 1

Analytical Data Summary for 5/12/2025

Constituents	Units	GW HOLDING POND	Holding Pond	LEACHATE(NEWPOND)	MW-11A	MW-12A	MW-13A	MW-19A	MW-21A	MW-23A	MW-34A
Lead, Total	ug/L	<5	<10	<10	<10	<10	<10	<10	<10	<10	<10
Magnesium, Dissolved	mg/L	46.8									
Magnesium, Total	mg/L	46.1	46.2	161.0	46.0	72.1	42.4	61.6	45.4	47.2	70.1
Mercury, total	ug/L	<.20		<.49							
Methyl Ethyl Ketone	ug/L		<10	<10	<10	<10	<10	<10	<10	<10	<10
Methyl Isobutyl Ketone	ug/L		<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
Nickel, Total	ug/L		22.1	306.0	<10.0	14.5	<10.0	38.6	<10.0	13.6	<10.0
Nitrogen, nitrate-nitrite	mg/L	2.8									
pH	SU	7.99									
pH (Field)	s.u.	7.67	7.67		7.00	6.42	6.64	7.19	6.85	6.47	7.40
Phenolics, Total	mg/L			.064							
Potassium, Total	mg/L	16.60	16.40	379.00	2.60	4.84	2.36	1.10	3.32	2.03	7.42
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	51.50	54.50	1910.00	7.67	62.40	6.67	34.80	8.62	12.40	15.60
Specific conductance, field	umhos/cm	985	985		1158	1808	956	1328	927	1047	1602
Styrene	ug/L		<1	<1	<1	<1	<1	<1	<1	<1	<1
Sulfate	mg/L	89.70	96.50	705.00	33.30	19.90	12.50	189.00	80.80	5.47	388.00
Temperature (field test)	øC	21.81	21.81		10.10	10.20	9.80	7.20	11.90	8.20	9.10
Tetrachloroethene	ug/L		<1	<1	<1	<1	<1	<1	<1	<1	<1
Thallium, Total	ug/L		<2	<2	<2	<2	<2	<2	<2	<2	<2
Toluene	ug/L		<1	<1	<1	<1	<1	<1	<1	<1	<1
Total dissolved solids (tds)	mg/L	601									
Total kjeldahl nitrogen	mg/L			670							
Total Organic Carbon (TOC)	mg/L	14.2									
Total suspended solids (tss)	mg/L		5.6	102.0	3.6	12.8	15.6	15.1	<2.5	23.8	8.2
Total Xylenes	ug/L		<3	<3	<3	<3	<3	<3	<3	<3	<3
trans-1,2-Dichloroethene	ug/L		<1.00	<1.00	<1.00	3.88	<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
trans-1,4-Dichloro-2-butene	ug/L		<1	<5	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	ug/L		<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	3.02	<1.00
Trichlorofluoromethane	ug/L		<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
Turbidity (field)	N.T.U.	3.4	3.4		7.8	.0	.7	1.5	.0	.2	9.1
Vanadium, Total	ug/L		<20.0	83.6	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0	<20.0
Vinyl acetate	ug/L		<5	<5	<5	<5	<5	<5	<5	<5	<5
Vinyl chloride	ug/L		<1.0	<1.0	<1.0	25.1	<1.0	<1.0	<1.0	<1.0	<1.0
Zinc, Total	ug/L		<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 5/12/2025

Constituents	MW-36A	MW-37A	MW-38A	MW-39A	MW-40A
Lead, Total	<10	<10	<10	<10	<10
Magnesium, Dissolved					
Magnesium, Total	55.9	119.0	48.3	38.6	36.4
Mercury, total					
Methyl Ethyl Ketone	<10	<10	<10	<10	<10
Methyl Isobutyl Ketone	<5	<5	<5	<5	<5
Methylene chloride	<2.5	<2.5	<2.5	<2.5	<2.5
Nickel, Total	71.3	278.0	31.7	<10.0	<10.0
Nitrogen, nitrate-nitrite					
pH					
pH (Field)	6.93	6.43	6.66	7.34	7.53
Phenolics, Total					
Potassium, Total	5.42	2.74	1.11	<1.00	2.06
Selenium, Total	<10	<10	<10	<10	<10
Silver, Total	<10	<10	<10	<10	<10
Sodium, Total	10.30	172.00	24.30	7.17	4.86
Specific conductance, field	1417	3749	1356	864	710
Styrene	<1	<1	<1	<1	<1
Sulfate	292.00	13.00	104.00	7.32	20.70
Temperature (field test)	7.80	10.80	9.30	8.40	9.20
Tetrachloroethene	<1	<1	<1	<1	<1
Thallium, Total	<2	<2	<2	<2	<2
Toluene	<1	<1	<1	<1	<1
Total dissolved solids (tds)					
Total kjeldahl nitrogen					
Total Organic Carbon (TOC)					
Total suspended solids (tss)	2.6	76.0	<2.5	11.1	17.8
Total Xylenes	<3	<3	<3	<3	<3
trans-1,2-Dichloroethene	<1.00	<1.00	<1.00	<1.00	<1.00
trans-1,3-Dichloropropene	<1	<1	<1	<1	<1
trans-1,4-Dichloro-2-butene	<1	<1	<1	<1	<1
Trichloroethene	<1.00	<1.00	<1.00	<1.00	<1.00
Trichlorofluoromethane	<2.5	<2.5	<2.5	<2.5	<2.5
Turbidity (field)	.0	3.4	.0	9.0	5.9
Vanadium, Total	<20.0	<20.0	<20.0	<20.0	<20.0
Vinyl acetate	<5	<5	<5	<5	<5
Vinyl chloride	<1.0	<1.0	<1.0	<1.0	<1.0
Zinc, Total	<50	<50	<50	<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		
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		
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		
Barium, Total	ug/L	MW-11A	10/15/2019		270.0000		
Barium, Total	ug/L	MW-11A	06/03/2020		261.0000		

* - 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	10/07/2020		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		
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		
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		
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		
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		

* - 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	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		
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	**
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		
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		

* - 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	10/02/2024	ND	10.0000		
Copper, Total	ug/L	MW-11A	05/12/2025	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		
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		
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		
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		

* - 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	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		
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		
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		
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		
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		*

* - 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-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		
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	**
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		
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		

* - 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	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		
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		
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		
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		
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		

* - 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-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		
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		
Cadmium, Total	ug/L	MW-13A	10/02/2024	ND	5.0000		
Cadmium, Total	ug/L	MW-13A	05/12/2025	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		

* - 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-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		
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		
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		
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		

* - 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	10/02/2024	ND	10.0000		
Copper, Total	ug/L	MW-13A	05/12/2025	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		
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		
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		
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		

* - 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-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		
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		
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		
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		

* - 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-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		
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		
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		
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	**
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	**

* - 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-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		
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		
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		
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		

* - 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-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		
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		
Beryllium, Total	ug/L	MW-34A	05/22/2023	ND	4.0000		
Beryllium, Total	ug/L	MW-34A	05/12/2025	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		
Chromium, Total	ug/L	MW-34A	04/13/2010	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	
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		
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	**
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		
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		

* - 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-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		
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		
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		
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		

* - 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-34A	05/12/2025	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		
Silver, Total	ug/L	MW-34A	04/13/2010	ND	10.0000		
Silver, Total	ug/L	MW-34A	05/18/2010	ND	10.0000		
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		
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		

* - 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-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		
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		
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		
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	**

* - 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-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	**
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		
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		

* - 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-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		
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		

* - 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-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	**
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		

* - 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-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		
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		

* - 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-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		
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		

* - 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-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		
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	05/12/2025	ND	6.0000		6.0000
Arsenic, Total	ug/L	Holding Pond	05/12/2025	ND	10.0000		10.0000
Barium, Total	ug/L	Holding Pond	05/12/2025		116.0000		451.0000
Beryllium, Total	ug/L	Holding Pond	05/12/2025	ND	4.0000		4.0000
Cadmium, Total	ug/L	Holding Pond	05/12/2025	ND	5.0000		5.0000
Chromium, Total	ug/L	Holding Pond	05/12/2025	ND	10.0000		13.0000
Cobalt, Total	ug/L	Holding Pond	05/12/2025	ND	2.0000		11.0000
Copper, Total	ug/L	Holding Pond	05/12/2025	ND	10.0000		15.0000
Lead, Total	ug/L	Holding Pond	05/12/2025	ND	10.0000		10.0000
Nickel, Total	ug/L	Holding Pond	05/12/2025		22.1000	***	21.0000
Selenium, Total	ug/L	Holding Pond	05/12/2025	ND	10.0000		25.0000
Silver, Total	ug/L	Holding Pond	05/12/2025	ND	10.0000		10.0000
Thallium, Total	ug/L	Holding Pond	05/12/2025	ND	2.0000		2.0000
Vanadium, Total	ug/L	Holding Pond	05/12/2025	ND	20.0000		33.0000
Zinc, Total	ug/L	Holding Pond	05/12/2025	ND	50.0000		32.0000
Antimony, Total	ug/L	MW-12A	05/12/2025	ND	6.0000		6.0000
Arsenic, Total	ug/L	MW-12A	05/12/2025	ND	10.0000		10.0000
Barium, Total	ug/L	MW-12A	05/12/2025		267.0000		451.0000
Beryllium, Total	ug/L	MW-12A	05/12/2025	ND	4.0000		4.0000
Cadmium, Total	ug/L	MW-12A	05/12/2025	ND	5.0000		5.0000
Chromium, Total	ug/L	MW-12A	05/12/2025	ND	10.0000		13.0000
Cobalt, Total	ug/L	MW-12A	05/12/2025		2.2000		11.0000
Copper, Total	ug/L	MW-12A	05/12/2025	ND	10.0000		15.0000
Lead, Total	ug/L	MW-12A	05/12/2025	ND	10.0000		10.0000
Nickel, Total	ug/L	MW-12A	05/12/2025		14.5000		21.0000
Selenium, Total	ug/L	MW-12A	05/12/2025	ND	10.0000		25.0000
Silver, Total	ug/L	MW-12A	05/12/2025	ND	10.0000		10.0000
Thallium, Total	ug/L	MW-12A	05/12/2025	ND	2.0000		2.0000
Vanadium, Total	ug/L	MW-12A	05/12/2025	ND	20.0000		33.0000
Zinc, Total	ug/L	MW-12A	05/12/2025	ND	50.0000		32.0000
Antimony, Total	ug/L	MW-19A	05/12/2025	ND	6.0000		6.0000
Arsenic, Total	ug/L	MW-19A	05/12/2025	ND	10.0000		10.0000
Barium, Total	ug/L	MW-19A	05/12/2025		208.0000		451.0000
Beryllium, Total	ug/L	MW-19A	05/12/2025	ND	4.0000		4.0000
Cadmium, Total	ug/L	MW-19A	05/12/2025	ND	5.0000		5.0000
Chromium, Total	ug/L	MW-19A	05/12/2025	ND	10.0000		13.0000
Cobalt, Total	ug/L	MW-19A	05/12/2025	ND	2.0000		11.0000
Copper, Total	ug/L	MW-19A	05/12/2025	ND	10.0000		15.0000
Lead, Total	ug/L	MW-19A	05/12/2025	ND	10.0000		10.0000
Nickel, Total	ug/L	MW-19A	05/12/2025		38.6000	***	21.0000
Selenium, Total	ug/L	MW-19A	05/12/2025	ND	10.0000		25.0000
Silver, Total	ug/L	MW-19A	05/12/2025	ND	10.0000		10.0000
Thallium, Total	ug/L	MW-19A	05/12/2025	ND	2.0000		2.0000
Vanadium, Total	ug/L	MW-19A	05/12/2025	ND	20.0000		33.0000
Zinc, Total	ug/L	MW-19A	05/12/2025	ND	50.0000		32.0000
Antimony, Total	ug/L	MW-21A	05/12/2025	ND	6.0000		6.0000
Arsenic, Total	ug/L	MW-21A	05/12/2025	ND	10.0000		10.0000
Barium, Total	ug/L	MW-21A	05/12/2025		296.0000		451.0000
Beryllium, Total	ug/L	MW-21A	05/12/2025	ND	4.0000		4.0000
Cadmium, Total	ug/L	MW-21A	05/12/2025	ND	5.0000		5.0000
Chromium, Total	ug/L	MW-21A	05/12/2025	ND	10.0000		13.0000
Cobalt, Total	ug/L	MW-21A	05/12/2025	ND	2.0000		11.0000
Copper, Total	ug/L	MW-21A	05/12/2025	ND	10.0000		15.0000
Lead, Total	ug/L	MW-21A	05/12/2025	ND	10.0000		10.0000
Nickel, Total	ug/L	MW-21A	05/12/2025	ND	10.0000		21.0000
Selenium, Total	ug/L	MW-21A	05/12/2025	ND	10.0000		25.0000
Silver, Total	ug/L	MW-21A	05/12/2025	ND	10.0000		10.0000
Thallium, Total	ug/L	MW-21A	05/12/2025	ND	2.0000		2.0000
Vanadium, Total	ug/L	MW-21A	05/12/2025	ND	20.0000		33.0000
Zinc, Total	ug/L	MW-21A	05/12/2025	ND	50.0000		32.0000
Antimony, Total	ug/L	MW-23A	05/12/2025	ND	6.0000		6.0000
Arsenic, Total	ug/L	MW-23A	05/12/2025		10.8000	*	10.0000
Barium, Total	ug/L	MW-23A	05/12/2025		1600.0000	***	451.0000
Beryllium, Total	ug/L	MW-23A	05/12/2025	ND	4.0000		4.0000
Cadmium, Total	ug/L	MW-23A	05/12/2025	ND	5.0000		5.0000
Chromium, Total	ug/L	MW-23A	05/12/2025	ND	10.0000		13.0000
Cobalt, Total	ug/L	MW-23A	05/12/2025		11.3000	*	11.0000
Copper, Total	ug/L	MW-23A	05/12/2025	ND	10.0000		15.0000
Lead, Total	ug/L	MW-23A	05/12/2025	ND	10.0000		10.0000
Nickel, Total	ug/L	MW-23A	05/12/2025		13.6000		21.0000
Selenium, Total	ug/L	MW-23A	05/12/2025	ND	10.0000		25.0000
Silver, Total	ug/L	MW-23A	05/12/2025	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	05/12/2025	ND	2.0000		2.0000
Vanadium, Total	ug/L	MW-23A	05/12/2025	ND	20.0000		33.0000
Zinc, Total	ug/L	MW-23A	05/12/2025	ND	50.0000		32.0000
Antimony, Total	ug/L	MW-37A	05/12/2025	ND	6.0000		6.0000
Arsenic, Total	ug/L	MW-37A	05/12/2025		53.4000	***	10.0000
Barium, Total	ug/L	MW-37A	05/12/2025		1320.0000	***	451.0000
Beryllium, Total	ug/L	MW-37A	05/12/2025	ND	4.0000		4.0000
Cadmium, Total	ug/L	MW-37A	05/12/2025	ND	5.0000		5.0000
Chromium, Total	ug/L	MW-37A	05/12/2025	ND	10.0000		13.0000
Cobalt, Total	ug/L	MW-37A	05/12/2025		23.0000	***	11.0000
Copper, Total	ug/L	MW-37A	05/12/2025	ND	10.0000		15.0000
Lead, Total	ug/L	MW-37A	05/12/2025	ND	10.0000		10.0000
Nickel, Total	ug/L	MW-37A	05/12/2025		278.0000	***	21.0000
Selenium, Total	ug/L	MW-37A	05/12/2025	ND	10.0000		25.0000
Silver, Total	ug/L	MW-37A	05/12/2025	ND	10.0000		10.0000
Thallium, Total	ug/L	MW-37A	05/12/2025	ND	2.0000		2.0000
Vanadium, Total	ug/L	MW-37A	05/12/2025	ND	20.0000		33.0000
Zinc, Total	ug/L	MW-37A	05/12/2025	ND	50.0000		32.0000
Antimony, Total	ug/L	MW-38A	05/12/2025	ND	6.0000		6.0000
Arsenic, Total	ug/L	MW-38A	05/12/2025	ND	10.0000		10.0000
Barium, Total	ug/L	MW-38A	05/12/2025		216.0000		451.0000
Beryllium, Total	ug/L	MW-38A	05/12/2025	ND	4.0000		4.0000
Cadmium, Total	ug/L	MW-38A	05/12/2025	ND	5.0000		5.0000
Chromium, Total	ug/L	MW-38A	05/12/2025	ND	10.0000		13.0000
Cobalt, Total	ug/L	MW-38A	05/12/2025	ND	2.0000		11.0000
Copper, Total	ug/L	MW-38A	05/12/2025	ND	10.0000		15.0000
Lead, Total	ug/L	MW-38A	05/12/2025	ND	10.0000		10.0000
Nickel, Total	ug/L	MW-38A	05/12/2025		31.7000	***	21.0000
Selenium, Total	ug/L	MW-38A	05/12/2025	ND	10.0000		25.0000
Silver, Total	ug/L	MW-38A	05/12/2025	ND	10.0000		10.0000
Thallium, Total	ug/L	MW-38A	05/12/2025	ND	2.0000		2.0000
Vanadium, Total	ug/L	MW-38A	05/12/2025	ND	20.0000		33.0000
Zinc, Total	ug/L	MW-38A	05/12/2025	ND	50.0000		32.0000
Antimony, Total	ug/L	MW-39A	05/12/2025	ND	6.0000		6.0000
Arsenic, Total	ug/L	MW-39A	05/12/2025	ND	10.0000		10.0000
Barium, Total	ug/L	MW-39A	05/12/2025		275.0000		451.0000
Beryllium, Total	ug/L	MW-39A	05/12/2025	ND	4.0000		4.0000
Cadmium, Total	ug/L	MW-39A	05/12/2025	ND	5.0000		5.0000
Chromium, Total	ug/L	MW-39A	05/12/2025	ND	10.0000		13.0000
Cobalt, Total	ug/L	MW-39A	05/12/2025	ND	2.0000		11.0000
Copper, Total	ug/L	MW-39A	05/12/2025	ND	10.0000		15.0000
Lead, Total	ug/L	MW-39A	05/12/2025	ND	10.0000		10.0000
Nickel, Total	ug/L	MW-39A	05/12/2025	ND	10.0000		21.0000
Selenium, Total	ug/L	MW-39A	05/12/2025	ND	10.0000		25.0000
Silver, Total	ug/L	MW-39A	05/12/2025	ND	10.0000		10.0000
Thallium, Total	ug/L	MW-39A	05/12/2025	ND	2.0000		2.0000
Vanadium, Total	ug/L	MW-39A	05/12/2025	ND	20.0000		33.0000
Zinc, Total	ug/L	MW-39A	05/12/2025	ND	50.0000		32.0000
Antimony, Total	ug/L	MW-40A	05/12/2025	ND	6.0000		6.0000
Arsenic, Total	ug/L	MW-40A	05/12/2025	ND	10.0000		10.0000
Barium, Total	ug/L	MW-40A	05/12/2025		221.0000		451.0000
Beryllium, Total	ug/L	MW-40A	05/12/2025	ND	4.0000		4.0000
Cadmium, Total	ug/L	MW-40A	05/12/2025	ND	5.0000		5.0000
Chromium, Total	ug/L	MW-40A	05/12/2025	ND	10.0000		13.0000
Cobalt, Total	ug/L	MW-40A	05/12/2025	ND	2.0000		11.0000
Copper, Total	ug/L	MW-40A	05/12/2025	ND	10.0000		15.0000
Lead, Total	ug/L	MW-40A	05/12/2025	ND	10.0000		10.0000
Nickel, Total	ug/L	MW-40A	05/12/2025	ND	10.0000		21.0000
Selenium, Total	ug/L	MW-40A	05/12/2025	ND	10.0000		25.0000
Silver, Total	ug/L	MW-40A	05/12/2025	ND	10.0000		10.0000
Thallium, Total	ug/L	MW-40A	05/12/2025	ND	2.0000		2.0000
Vanadium, Total	ug/L	MW-40A	05/12/2025	ND	20.0000		33.0000
Zinc, Total	ug/L	MW-40A	05/12/2025	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	117	0.000	0	312	0.000
Arsenic, Total	0	117	0.000	27	357	0.076
Barium, Total	117	117	1.000	353	353	1.000
Beryllium, Total	0	117	0.000	0	311	0.000
Cadmium, Total	0	117	0.000	0	354	0.000
Chromium, Total	1	116	0.009	3	358	0.008
Cobalt, Total	8	117	0.068	48	313	0.153
Copper, Total	2	116	0.017	7	351	0.020
Lead, Total	0	117	0.000	3	352	0.009
Nickel, Total	3	115	0.026	150	312	0.481
Selenium, Total	5	113	0.044	1	312	0.003
Silver, Total	0	117	0.000	0	312	0.000
Thallium, Total	0	117	0.000	1	313	0.003
Vanadium, Total	1	116	0.009	2	309	0.006
Zinc, Total	2	116	0.017	6	352	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	117	0.000									nonpar
Arsenic, Total	0	117	0.000									nonpar
Barium, Total	117	117	1.000	6.784	4.974					2.326	non-norm	nonpar
Beryllium, Total	0	117	0.000									nonpar
Cadmium, Total	0	117	0.000									nonpar
Chromium, Total	1	116	0.009									nonpar
Cobalt, Total	8	117	0.068	1.896	1.390					2.326	normal	nonpar
Copper, Total	2	116	0.017									nonpar
Lead, Total	0	117	0.000									nonpar
Nickel, Total	3	115	0.026									nonpar
Selenium, Total	5	113	0.044	0.700	0.762					2.326	normal	nonpar
Silver, Total	0	117	0.000									nonpar
Thallium, Total	0	117	0.000									nonpar
Vanadium, Total	1	116	0.009									nonpar
Zinc, Total	2	116	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	117					6.0000	nonpar	***	0.99
Arsenic, Total	ug/L	0	117					10.0000	nonpar	***	0.99
Barium, Total	ug/L	117	117					451.0000	nonpar		0.99
Beryllium, Total	ug/L	0	117					4.0000	nonpar	***	0.99
Cadmium, Total	ug/L	0	117					5.0000	nonpar	***	0.99
Chromium, Total	ug/L	1	116					13.0000	nonpar		0.99
Cobalt, Total	ug/L	8	117					11.0000	nonpar		0.99
Copper, Total	ug/L	2	116					15.0000	nonpar		0.99
Lead, Total	ug/L	0	117					10.0000	nonpar	***	0.99
Nickel, Total	ug/L	3	115					21.0000	nonpar		0.99
Selenium, Total	ug/L	5	113					25.0000	nonpar		0.99
Silver, Total	ug/L	0	117					10.0000	nonpar	***	0.99
Thallium, Total	ug/L	0	117					2.0000	nonpar	***	0.99
Vanadium, Total	ug/L	1	116					33.0000	nonpar		0.99
Zinc, Total	ug/L	2	116					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		04/13/2010-05/12/2025	27	0.4744
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
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	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
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

* - 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	04/13/2010	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
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
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

* - 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	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
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
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
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

* - 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	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
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
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
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

* - 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	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
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-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
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

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

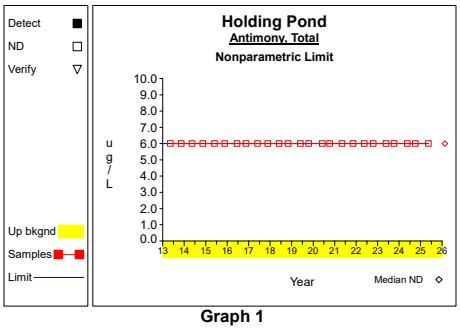
Table 8

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

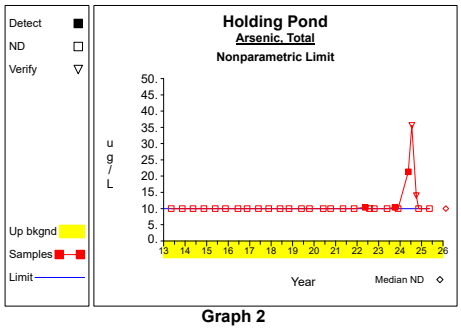
Constituent	Units	Well	Date		Result		Pred. Limit
Nickel, Total	ug/L	MW-38A	05/28/2019		18.0000		21.0000
Nickel, Total	ug/L	MW-38A	10/15/2019		21.0000		21.0000
Nickel, Total	ug/L	MW-38A	06/03/2020		26.5000	*	21.0000
Nickel, Total	ug/L	MW-38A	10/07/2020		30.9000	*	21.0000
Nickel, Total	ug/L	MW-38A	05/03/2021		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

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

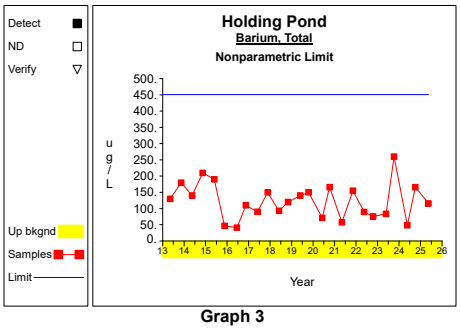
Up vs. Down Prediction Limits



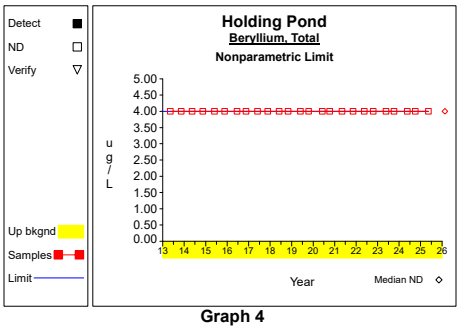
Graph 1



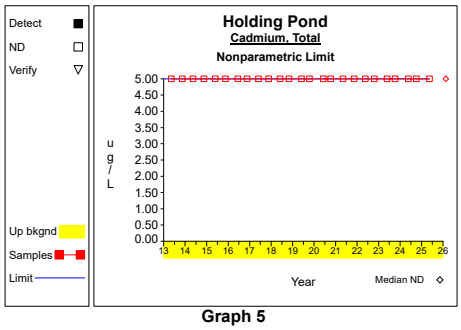
Graph 2



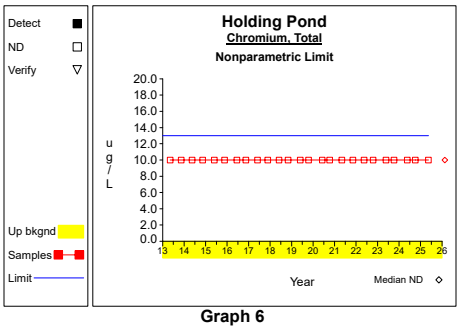
Graph 3



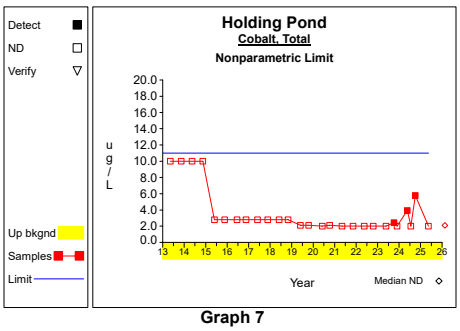
Graph 4



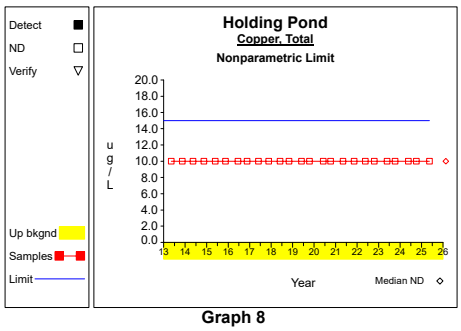
Graph 5



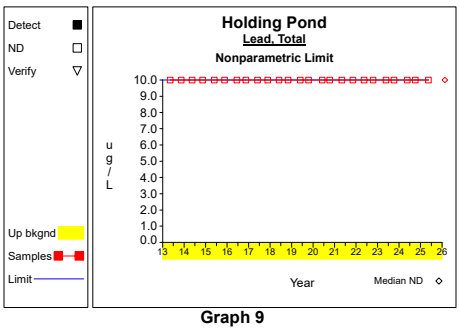
Graph 6



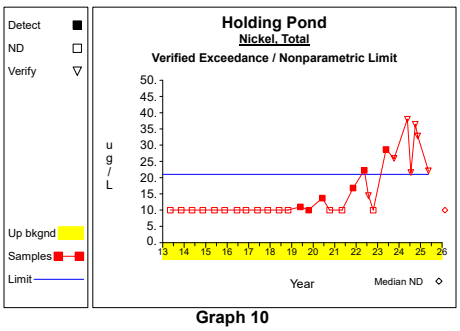
Graph 7



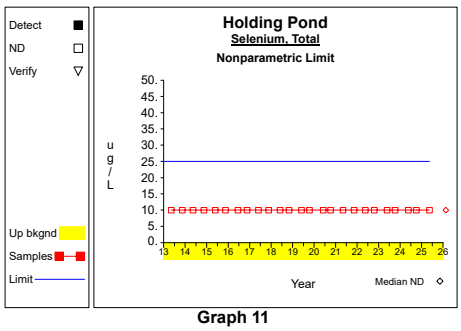
Graph 8



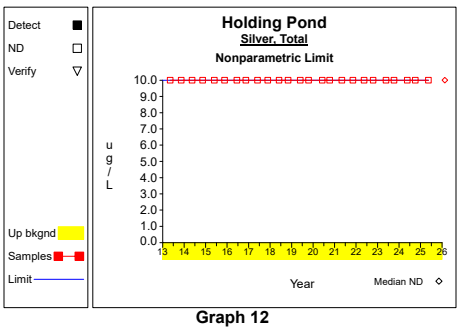
Graph 9



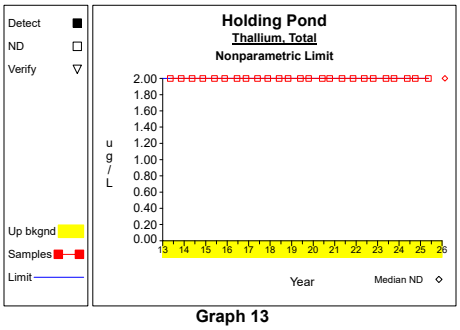
Graph 10



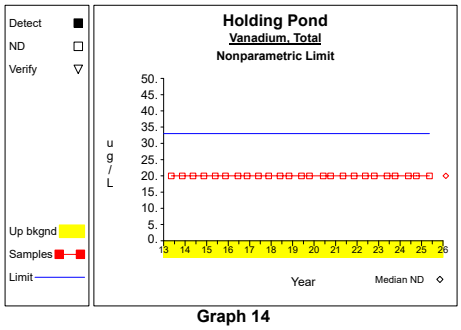
Graph 11



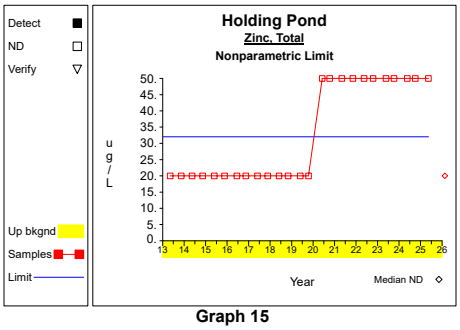
Graph 12



Graph 13



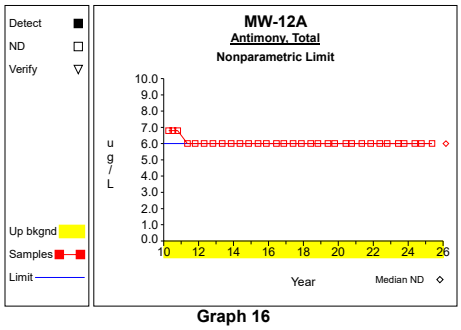
Graph 14



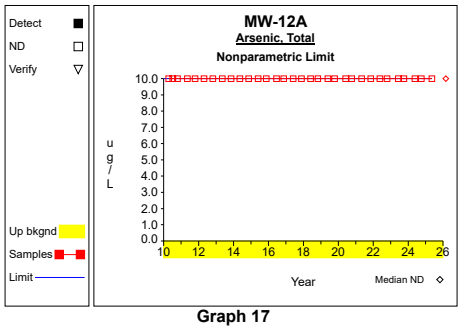
Graph 15

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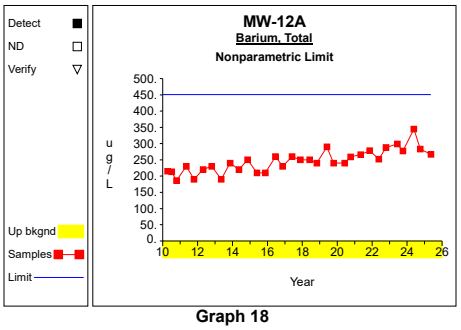
Up vs. Down Prediction Limits



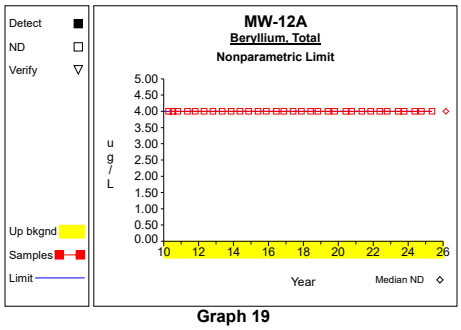
Graph 16



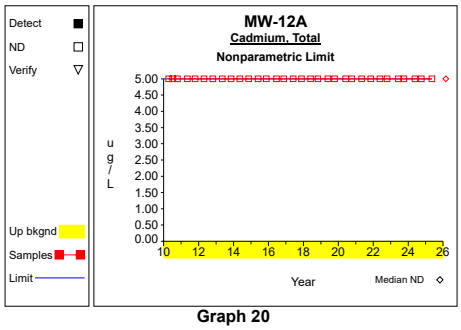
Graph 17



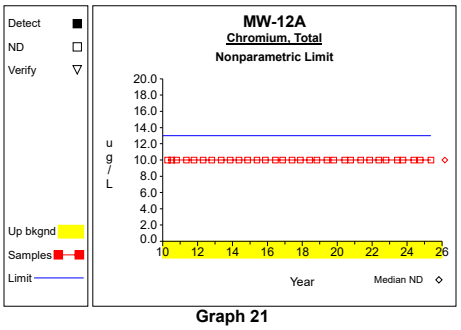
Graph 18



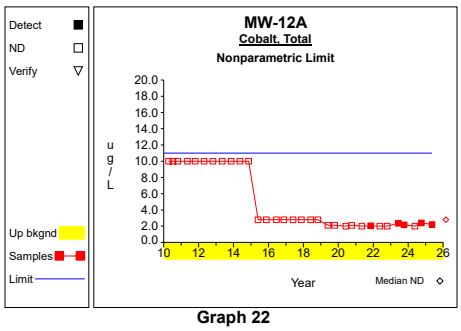
Graph 19



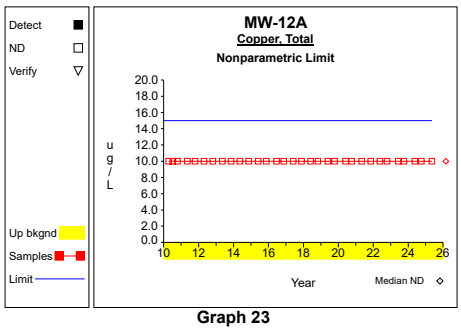
Graph 20



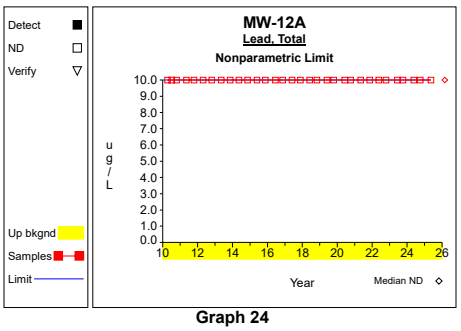
Graph 21



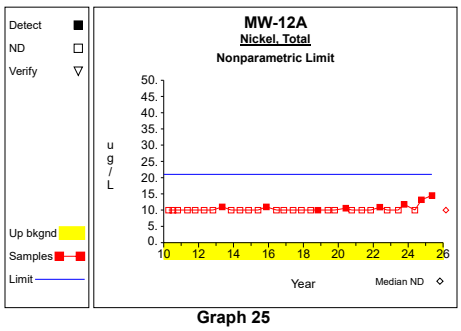
Graph 22



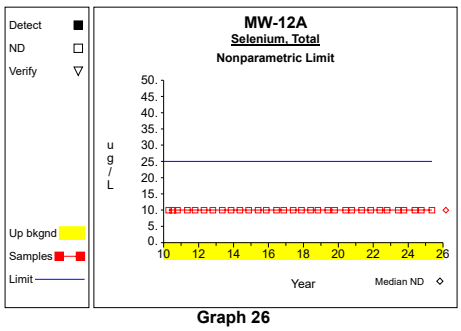
Graph 23



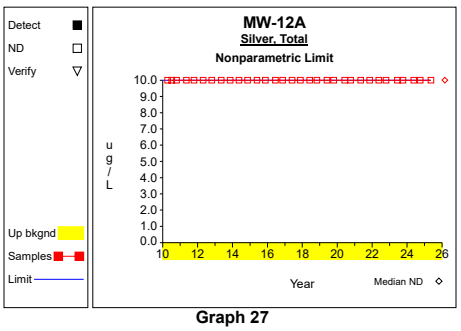
Graph 24



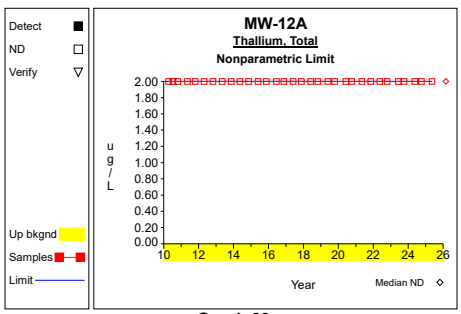
Graph 25



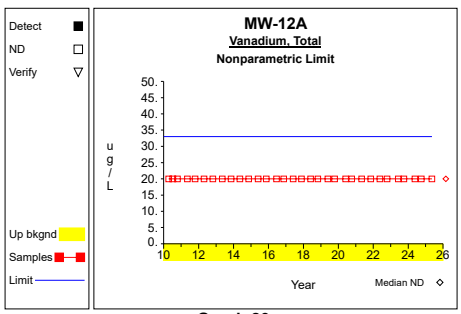
Graph 26



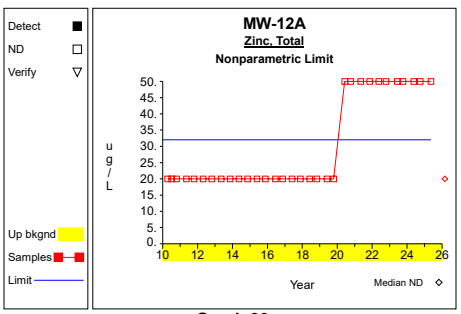
Graph 27



Graph 28



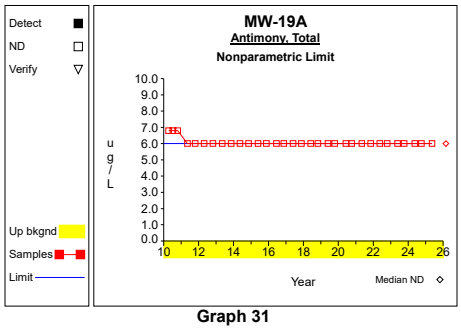
Graph 29



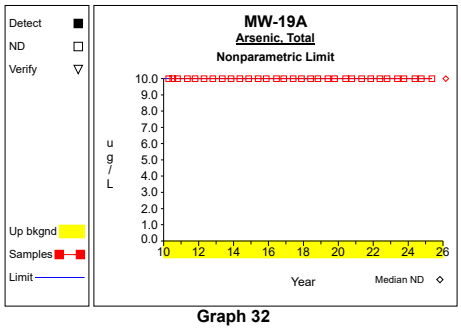
Graph 30

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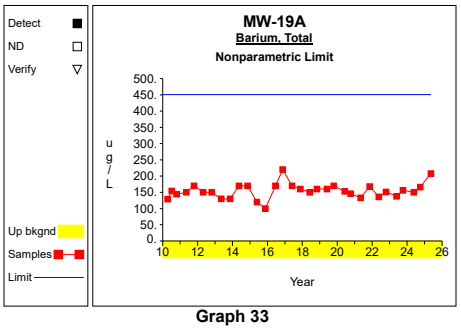
Up vs. Down Prediction Limits



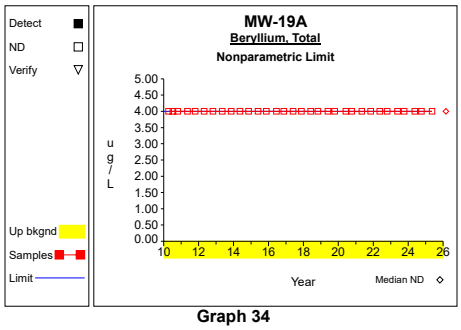
Graph 31



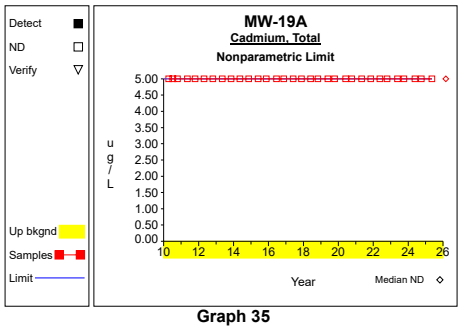
Graph 32



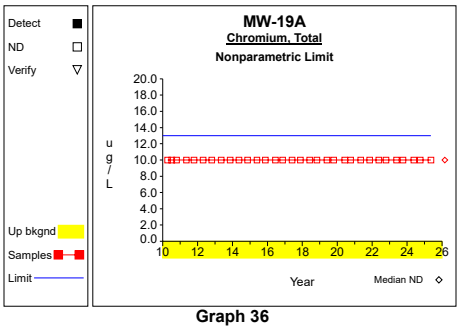
Graph 33



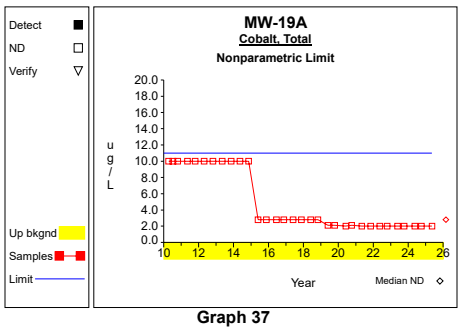
Graph 34



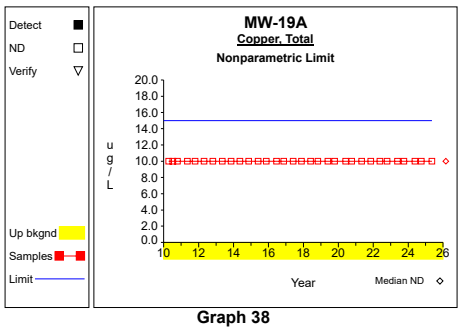
Graph 35



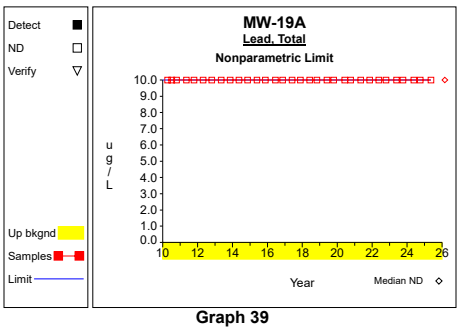
Graph 36



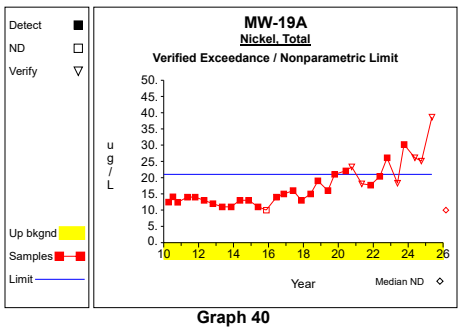
Graph 37



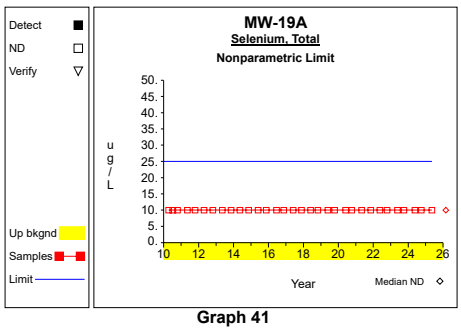
Graph 38



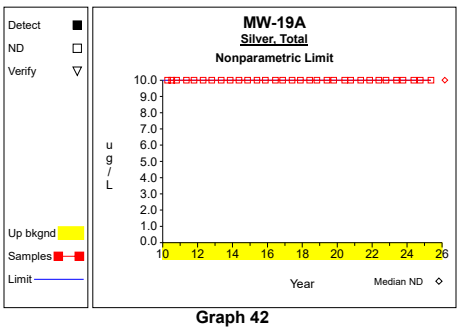
Graph 39



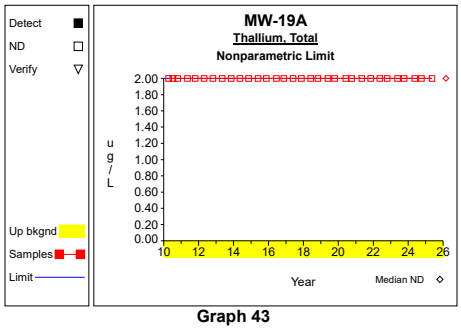
Graph 40



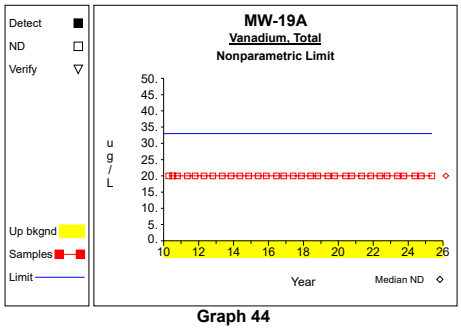
Graph 41



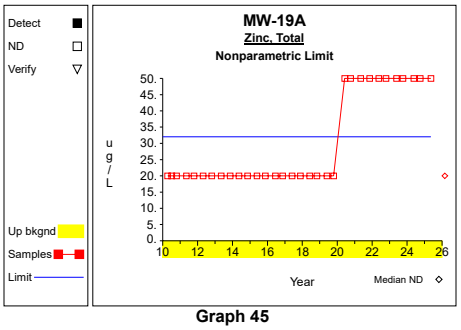
Graph 42



Graph 43



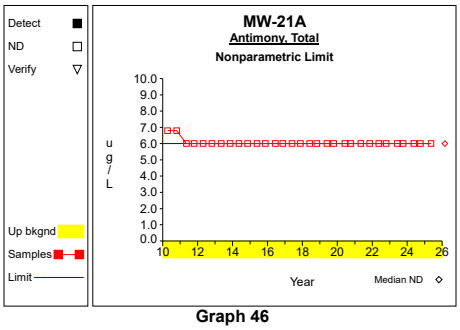
Graph 44



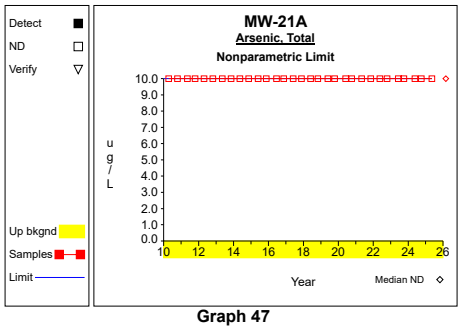
Graph 45

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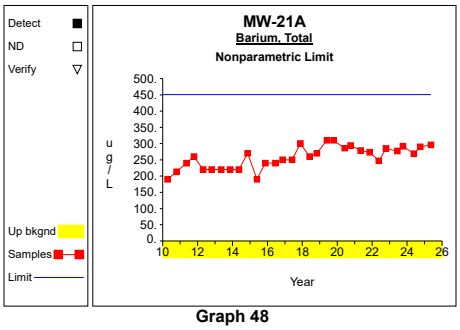
Up vs. Down Prediction Limits



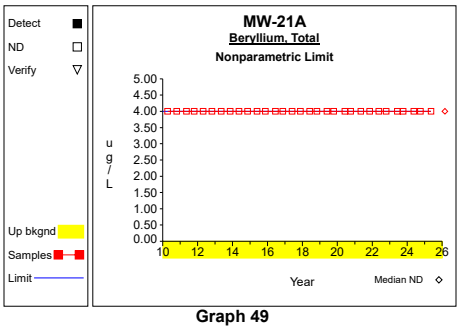
Graph 46



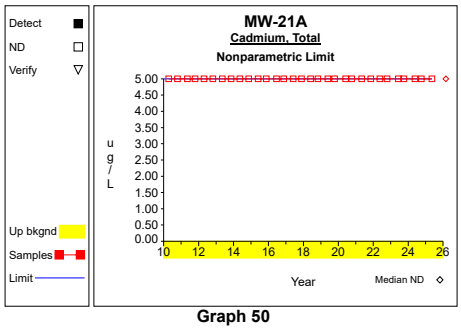
Graph 47



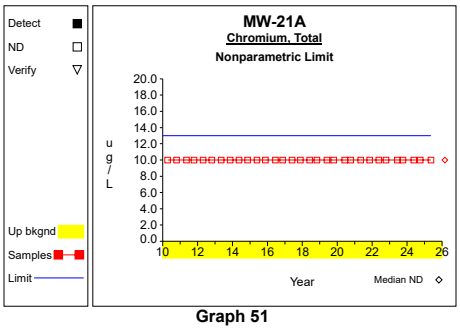
Graph 48



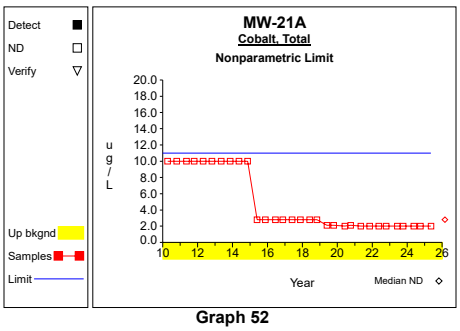
Graph 49



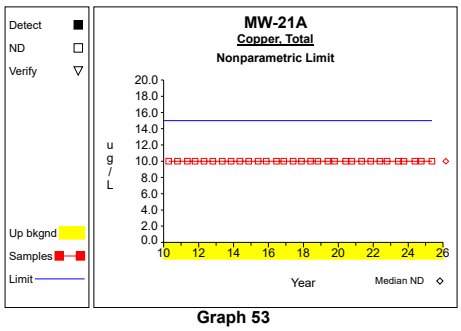
Graph 50



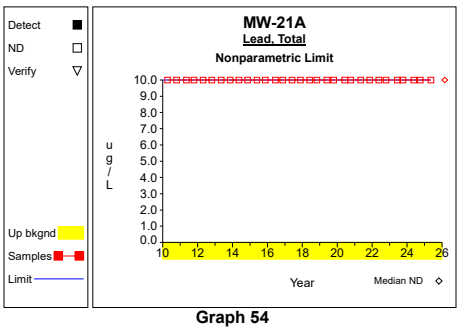
Graph 51



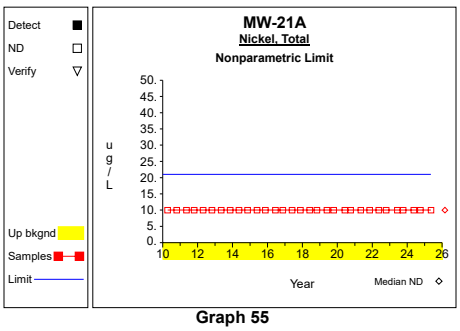
Graph 52



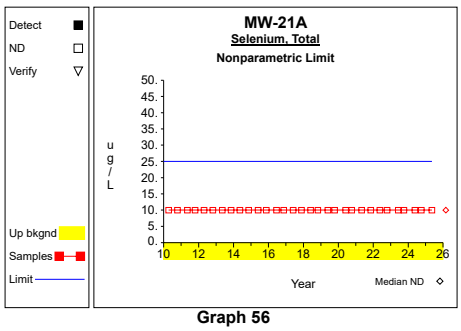
Graph 53



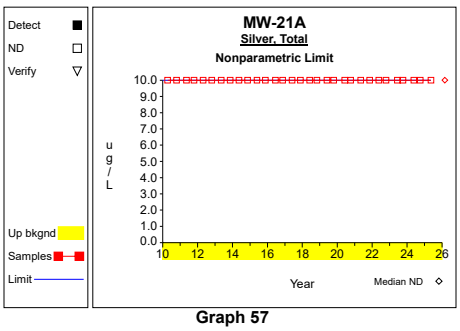
Graph 54



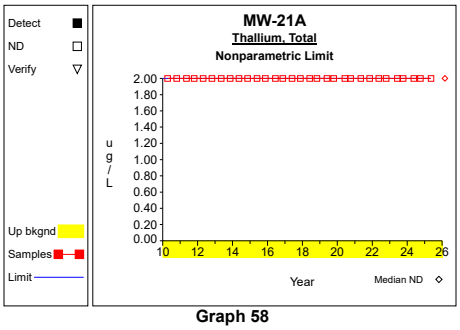
Graph 55



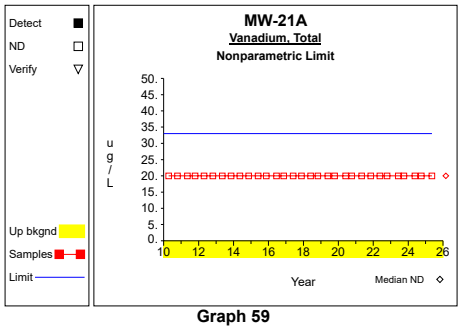
Graph 56



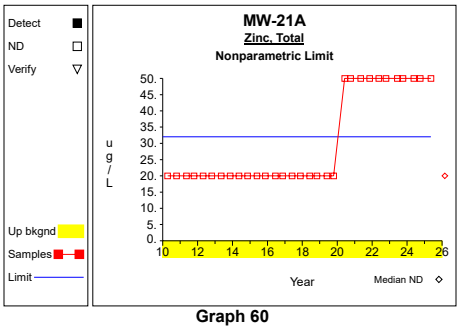
Graph 57



Graph 58



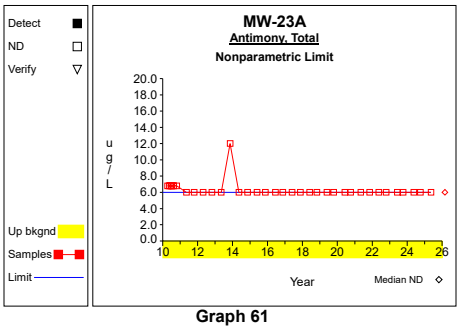
Graph 59



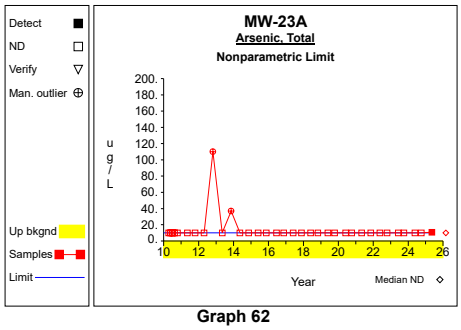
Graph 60

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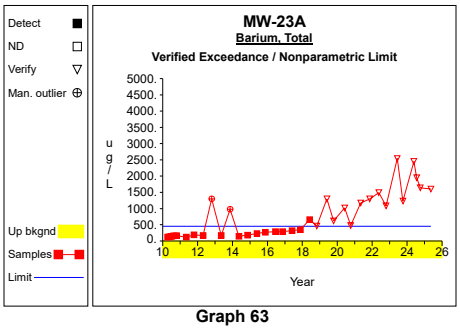
Up vs. Down Prediction Limits



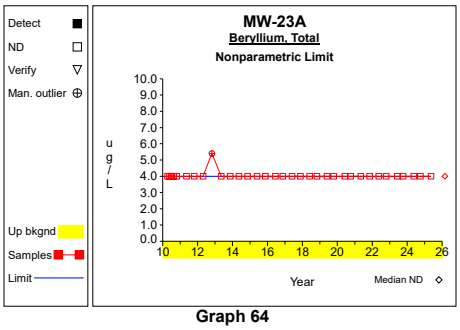
Graph 61



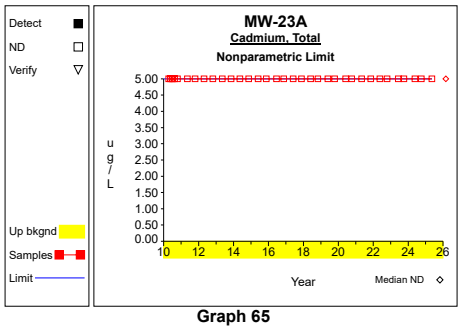
Graph 62



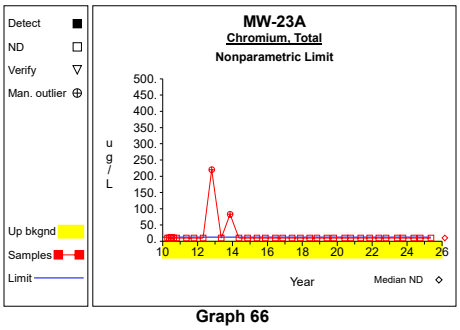
Graph 63



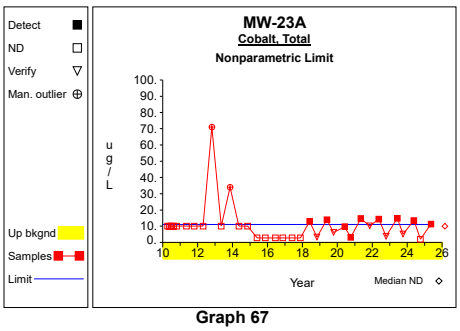
Graph 64



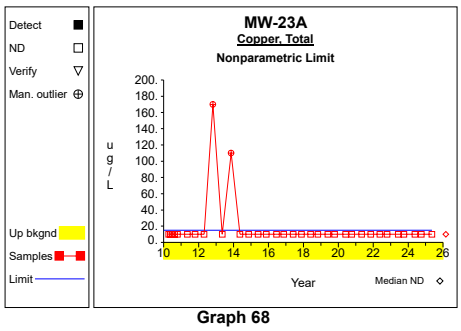
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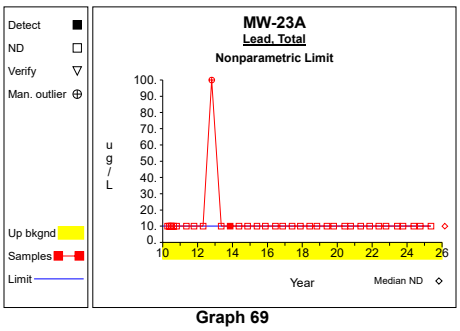
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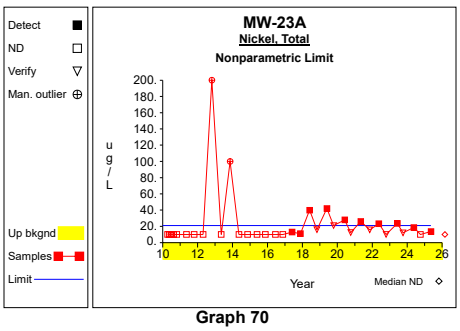
Graph 67



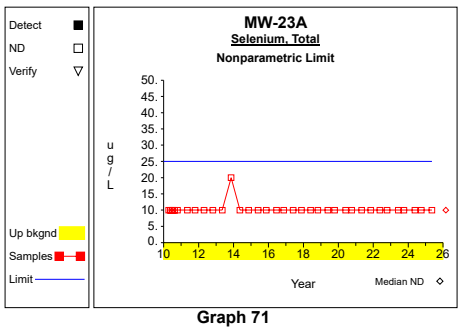
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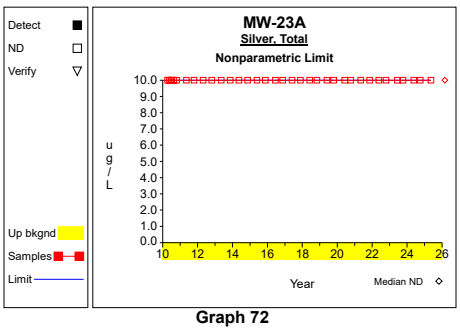
Graph 69



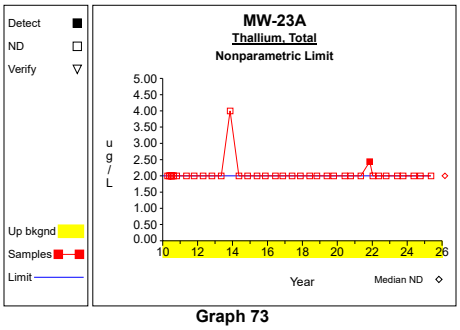
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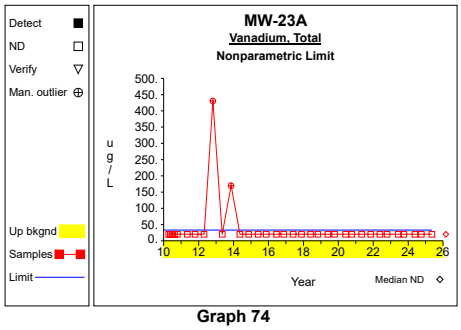
Graph 71



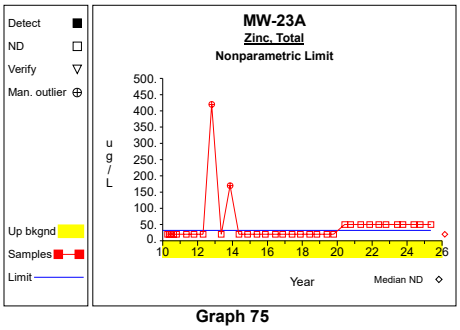
Graph 72



Graph 73



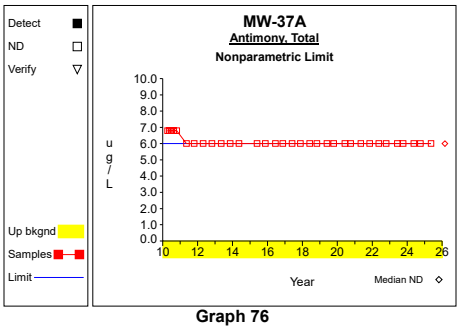
Graph 74



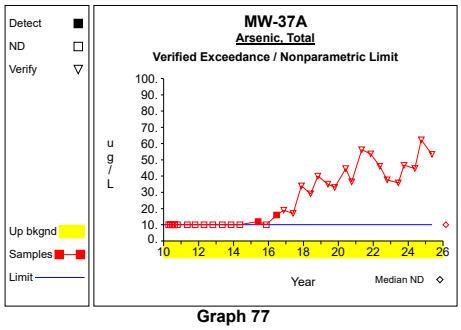
Graph 75

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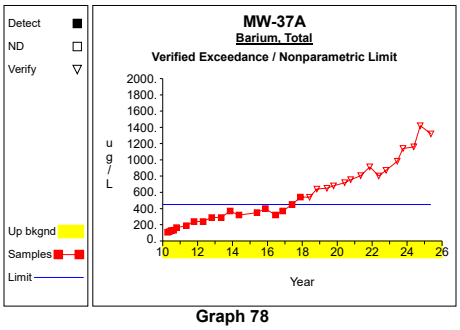
Up vs. Down Prediction Limits



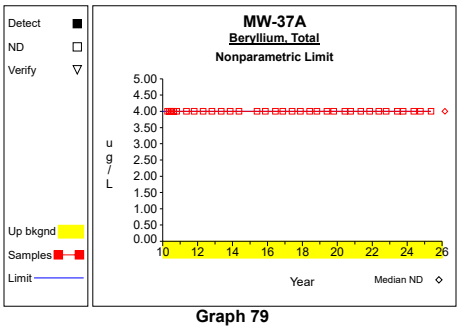
Graph 76



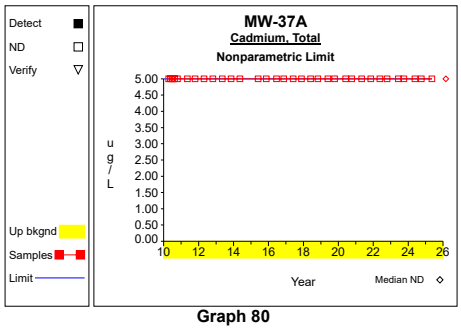
Graph 77



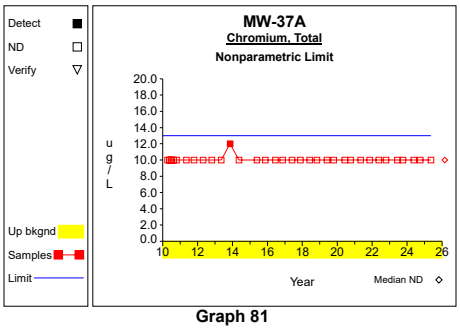
Graph 78



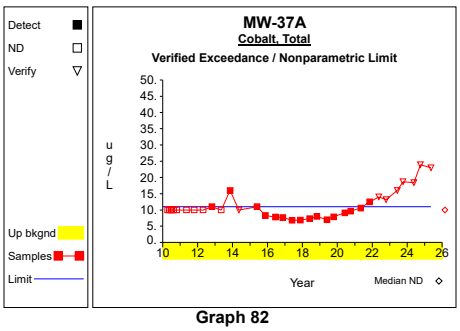
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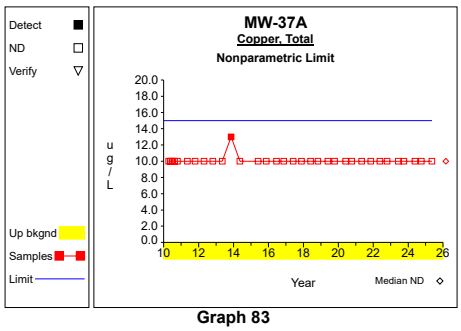
Graph 80



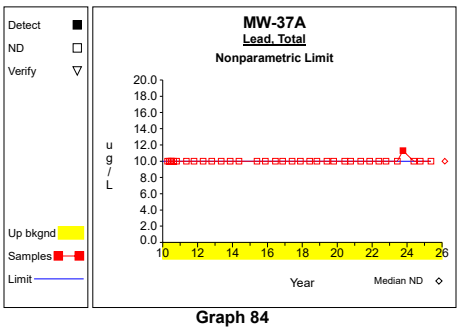
Graph 81



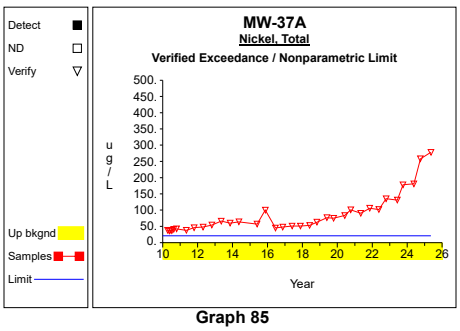
Graph 82



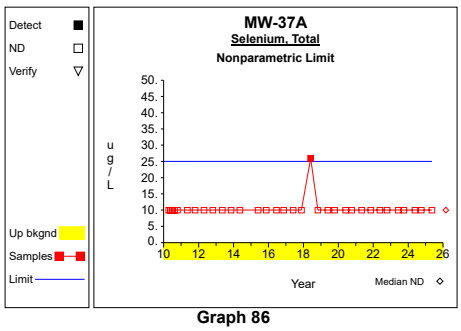
Graph 83



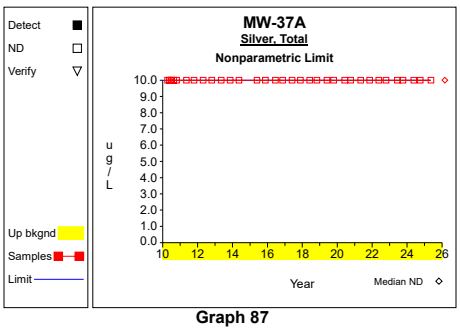
Graph 84



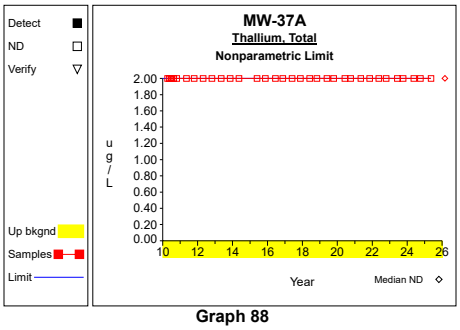
Graph 85



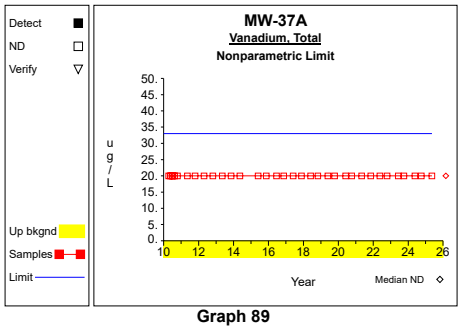
Graph 86



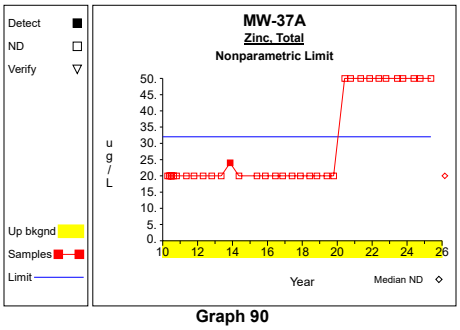
Graph 87



Graph 88



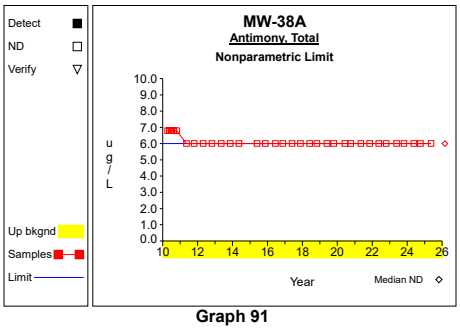
Graph 89



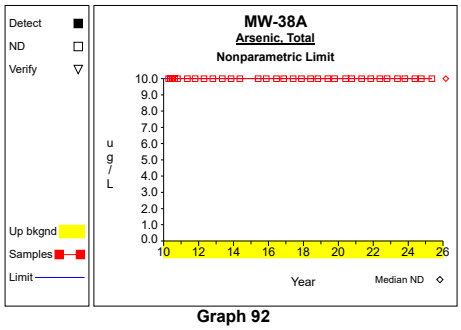
Graph 90

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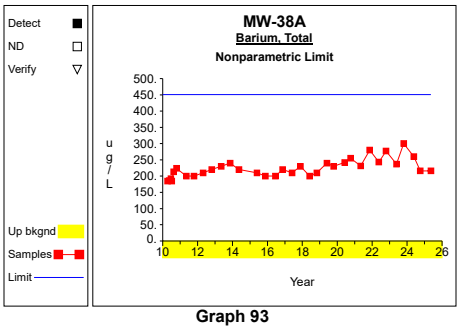
Up vs. Down Prediction Limits



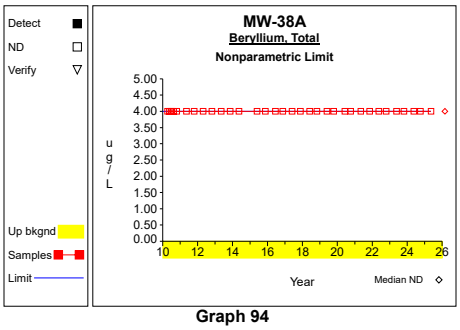
Graph 91



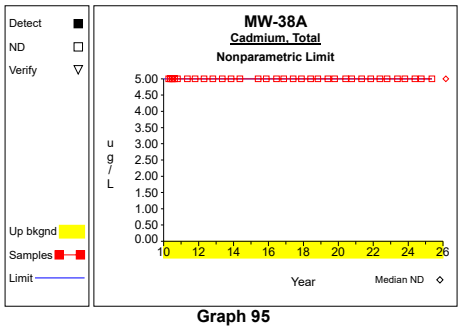
Graph 92



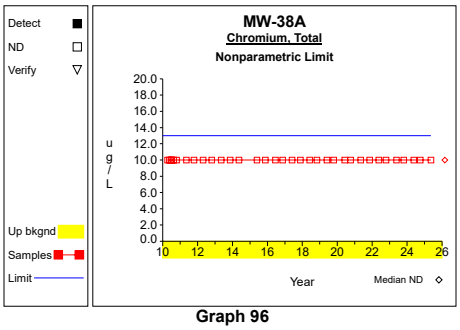
Graph 93



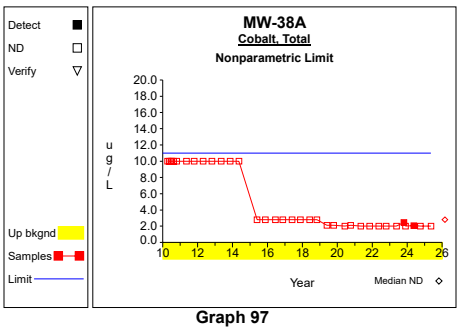
Graph 94



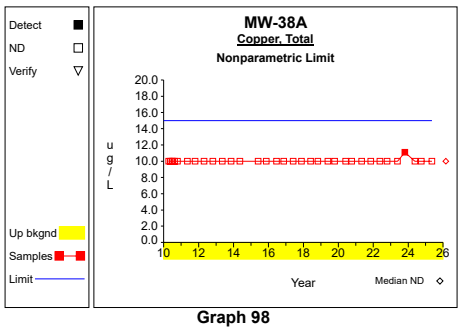
Graph 95



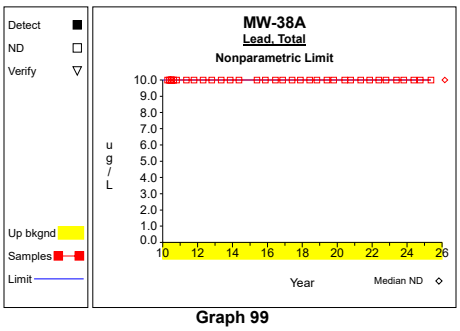
Graph 96



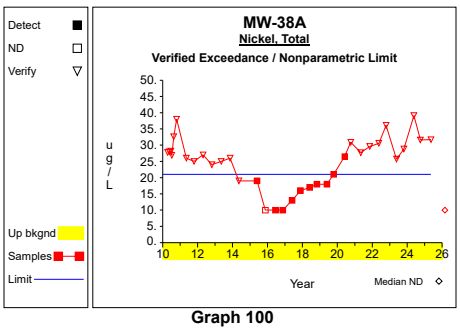
Graph 97



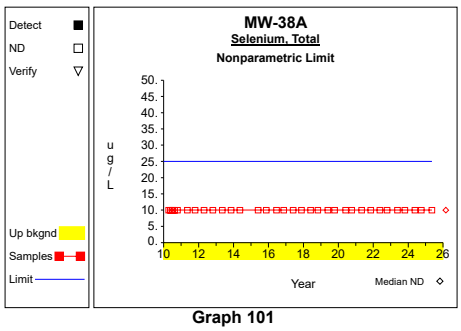
Graph 98



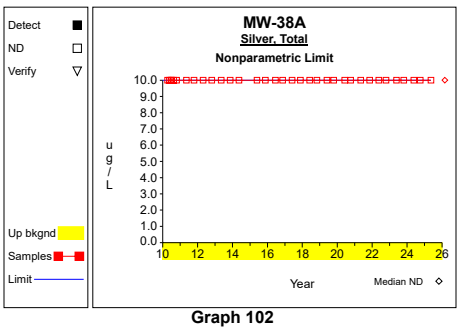
Graph 99



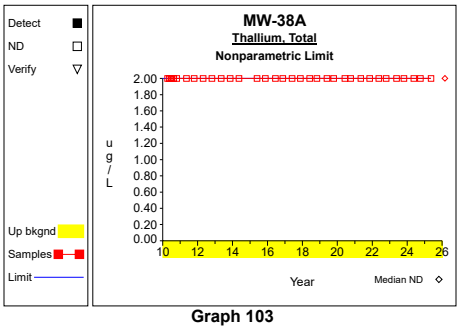
Graph 100



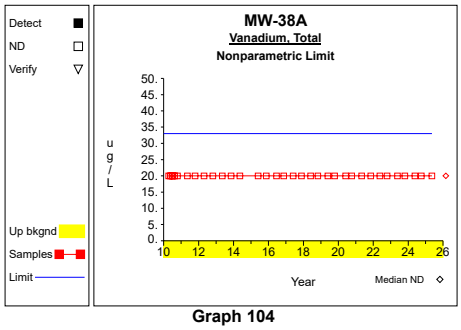
Graph 101



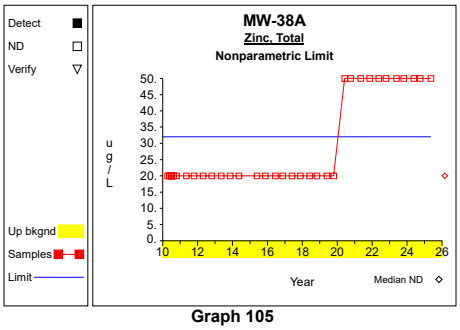
Graph 102



Graph 103



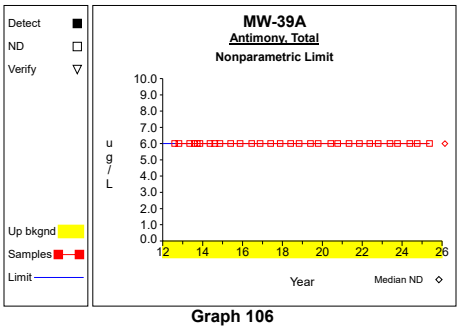
Graph 104



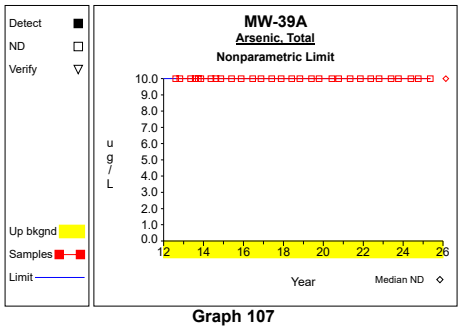
Graph 105

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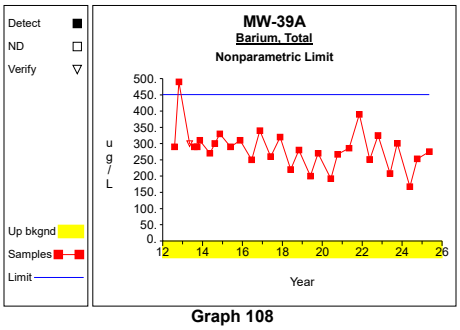
Up vs. Down Prediction Limits



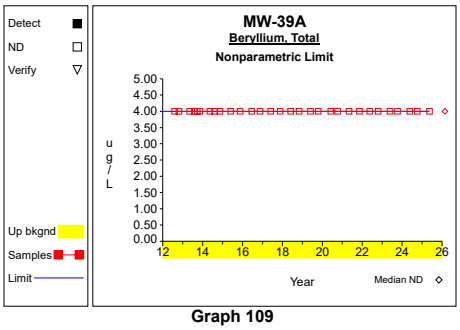
Graph 106



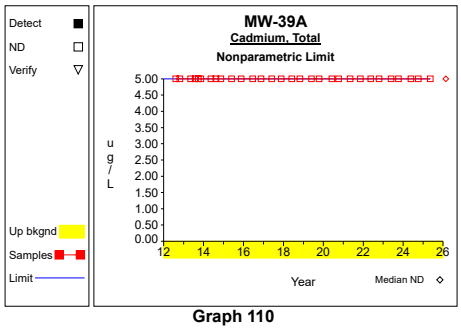
Graph 107



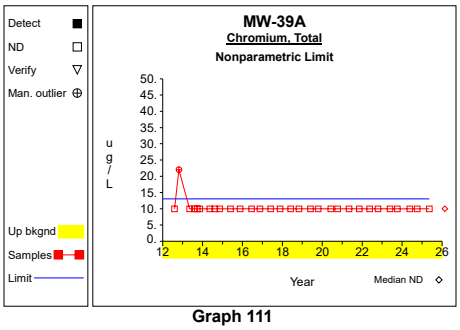
Graph 108



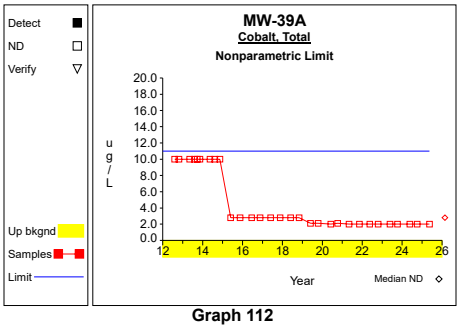
Graph 109



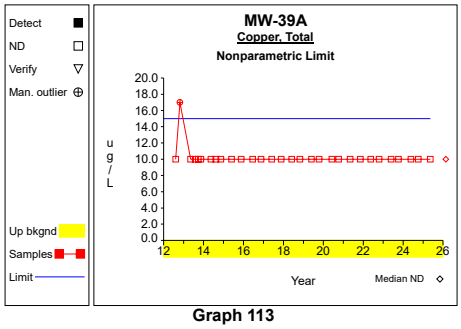
Graph 110



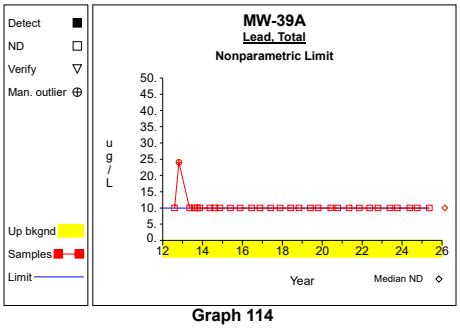
Graph 111



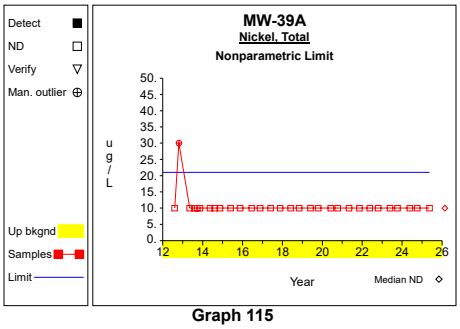
Graph 112



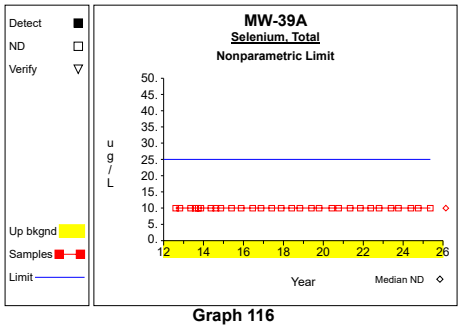
Graph 113



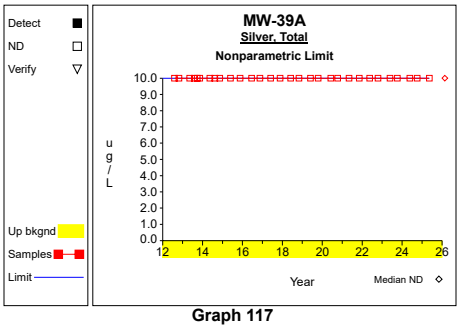
Graph 114



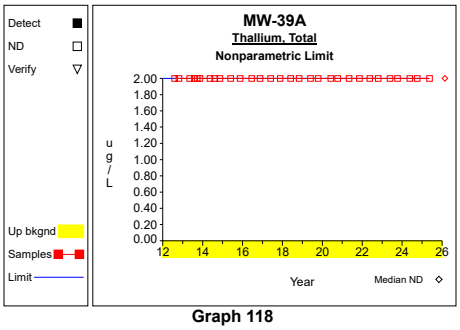
Graph 115



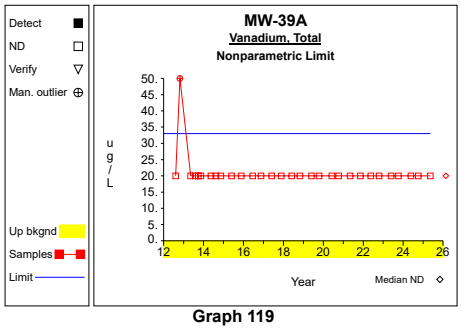
Graph 116



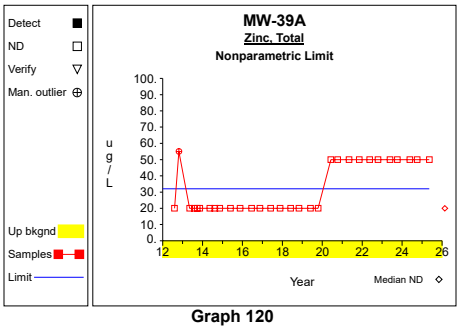
Graph 117



Graph 118



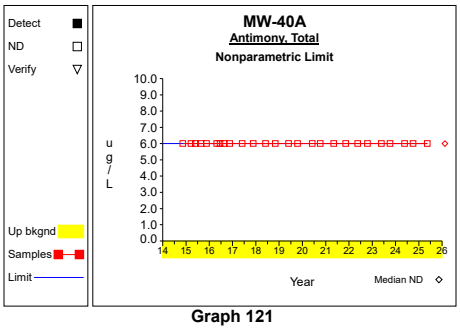
Graph 119



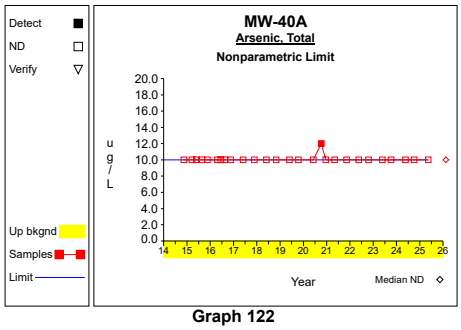
Graph 120

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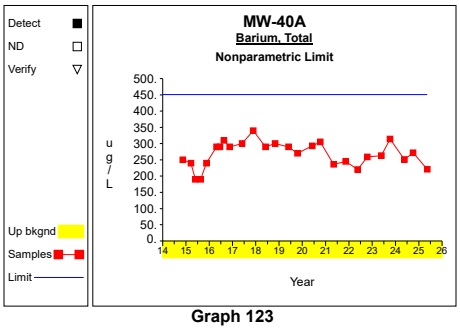
Up vs. Down Prediction Limits



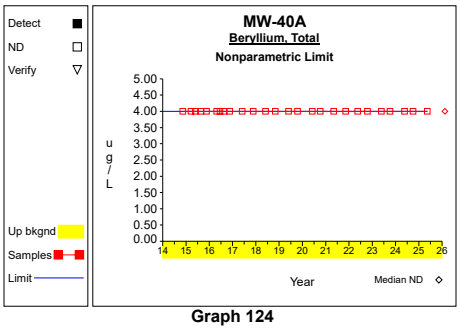
Graph 121



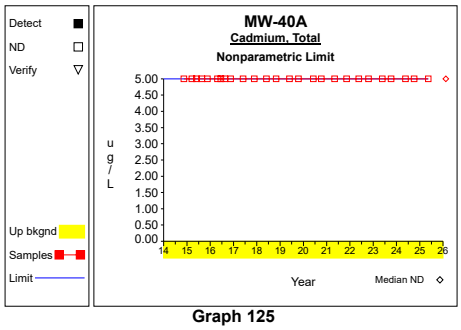
Graph 122



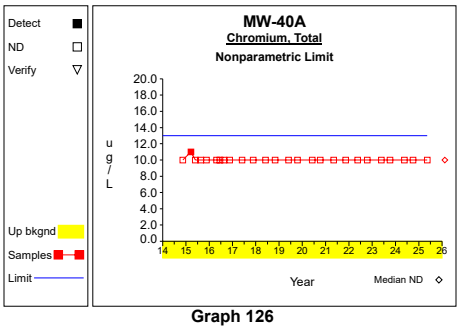
Graph 123



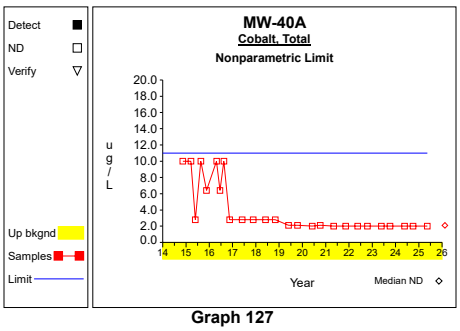
Graph 124



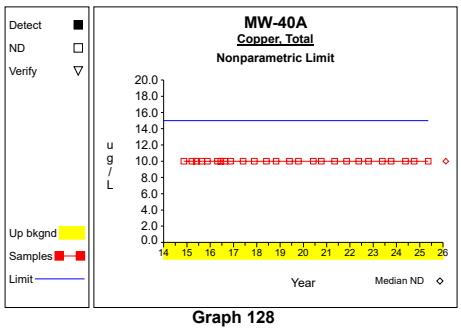
Graph 125



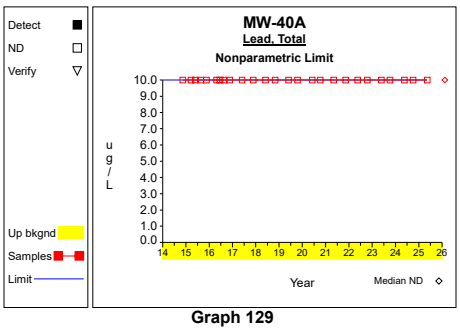
Graph 126



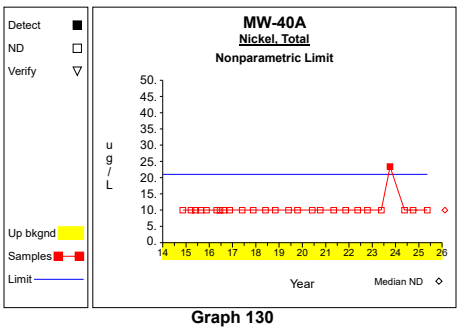
Graph 127



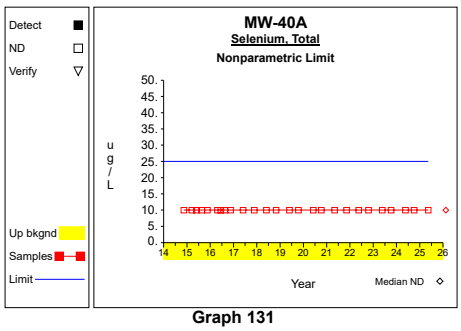
Graph 128



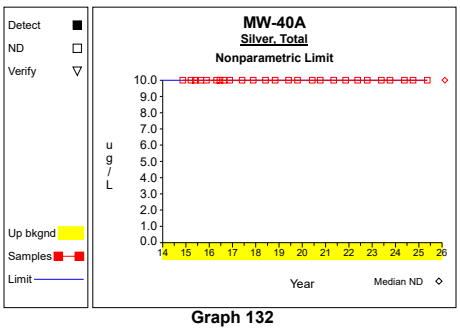
Graph 129



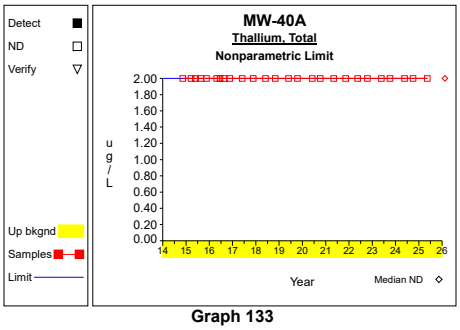
Graph 130



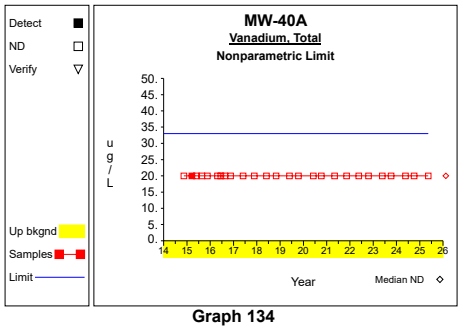
Graph 131



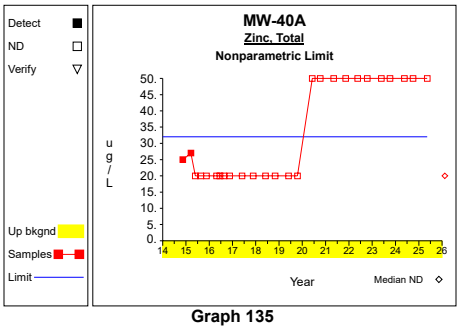
Graph 132



Graph 133



Graph 134

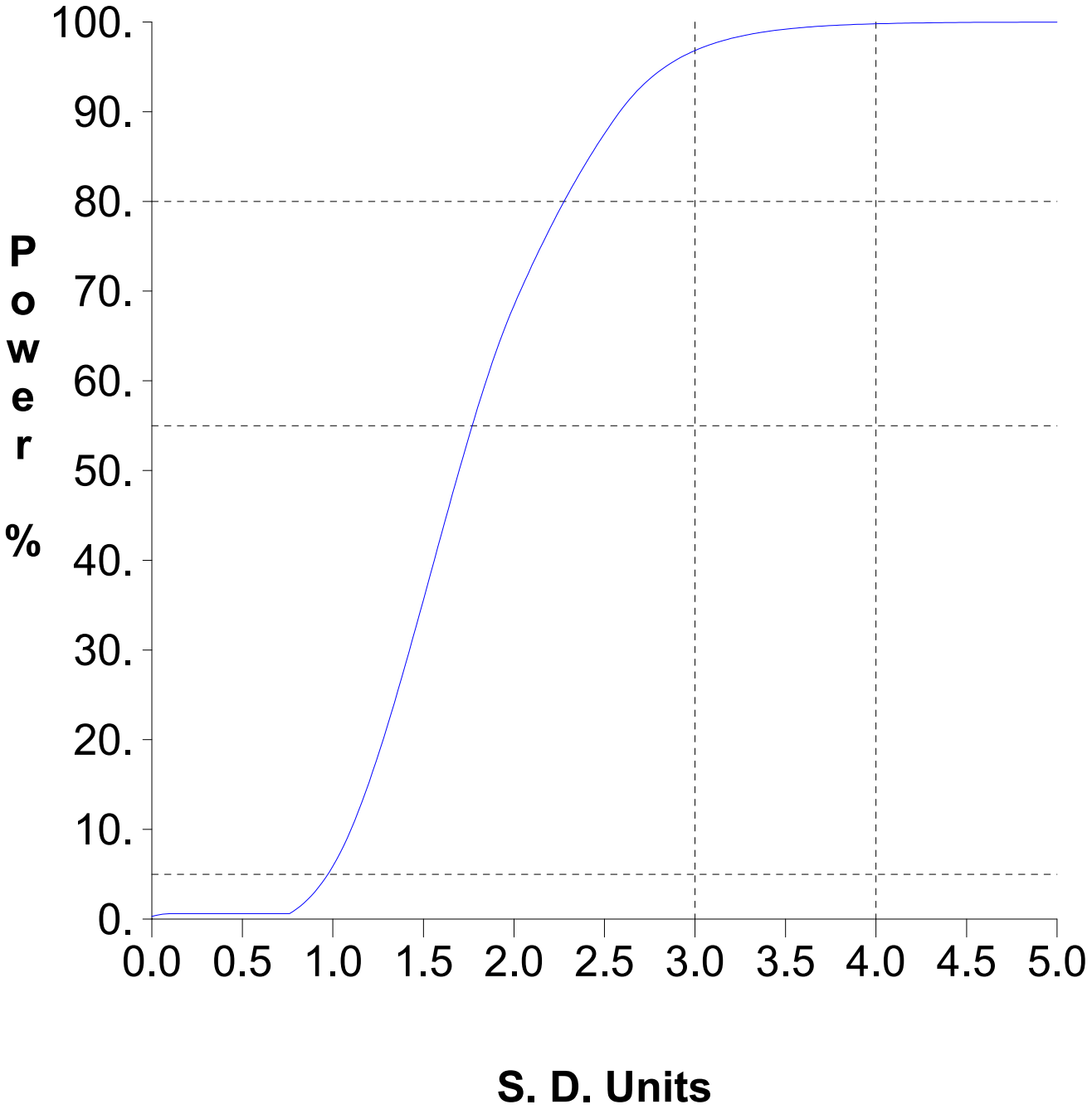


Graph 135

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) = **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) = **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) = **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) = **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) = **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) = **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) = **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) = **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) = **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) = **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) = **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) = **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) = **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) = **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) = **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

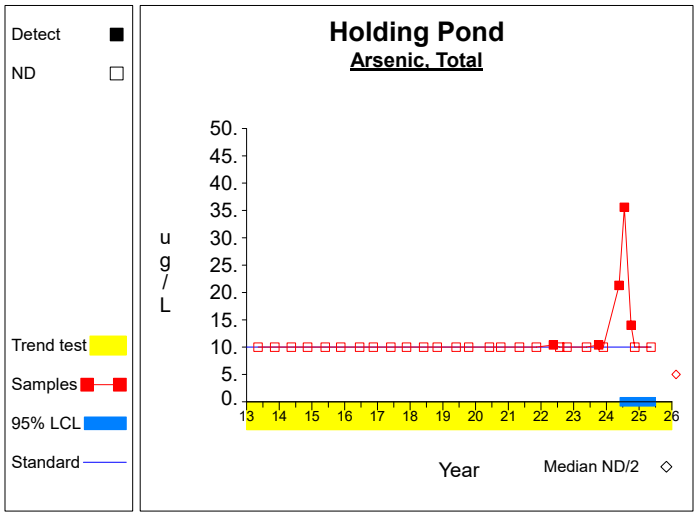
Table 1

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

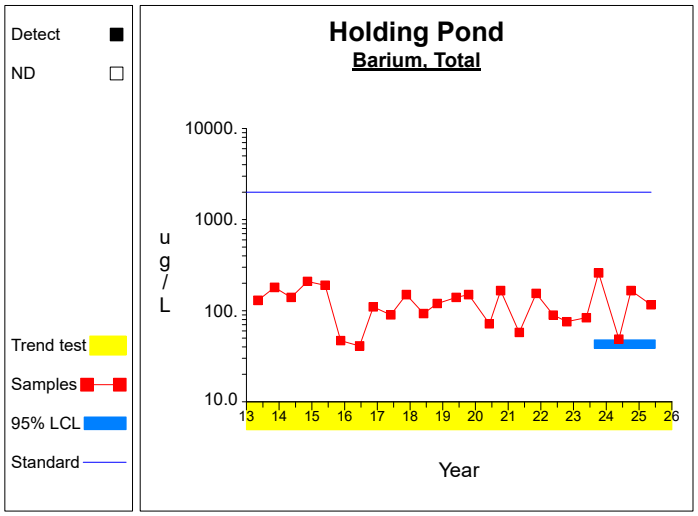
Constituent	Units	Well	N	Mean	SD	Factor	95% LCL	95% UCL	Standard	Trend	
Arsenic, Total	ug/L	Holding Pond	4	14.900	14.437	1.176	0.000	31.883	10.000		
Barium, Total	ug/L	Holding Pond	4	147.675	88.980	1.176	43.009	252.341	2000.000		
Cobalt, Total	ug/L	Holding Pond	4	2.955	2.324	1.176	0.221	5.689	2.100		
Nickel, Total	ug/L	Holding Pond	4	28.225	7.509	1.176	19.392	37.058	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	170.000	26.179	1.176	139.206	200.794	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	30.000	6.143	1.176	22.774	37.226	100.000	inc	
Arsenic, Total	ug/L	MW-23A	4	6.450	2.900	1.176	3.039	9.861	10.000		
Barium, Total	ug/L	MW-23A	4	1910.000	392.513	1.176	1448.291	2371.709	2000.000	inc	
Cobalt, Total	ug/L	MW-23A	4	8.748	4.313	1.176	3.674	13.821	2.100		**
Nickel, Total	ug/L	MW-23A	4	12.300	5.582	1.176	5.735	18.865	100.000		
Arsenic, Total	ug/L	MW-37A	4	51.775	7.942	1.176	42.433	61.117	10.000	inc	**
Barium, Total	ug/L	MW-37A	4	1260.000	133.666	1.176	1102.770	1417.230	2000.000	inc	
Cobalt, Total	ug/L	MW-37A	4	21.000	2.855	1.176	17.641	24.359	2.100	inc	**
Nickel, Total	ug/L	MW-37A	4	223.750	51.758	1.176	162.867	284.633	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	248.000	40.398	1.176	200.480	295.520	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	32.800	4.410	1.176	27.613	37.987	100.000		

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

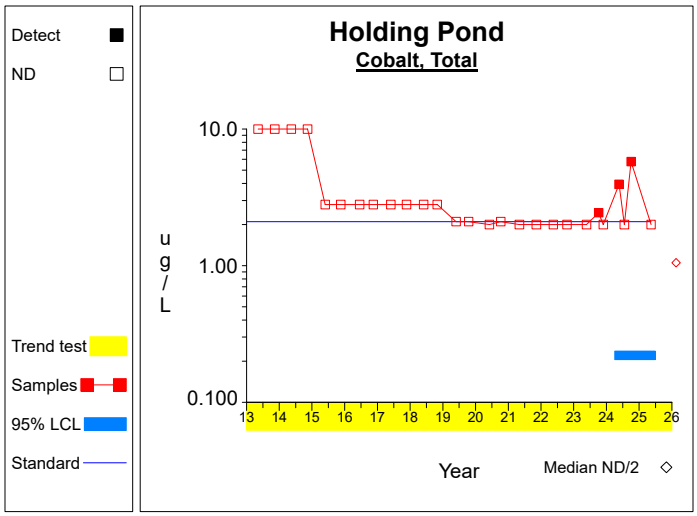
Confidence Limits (Assessment)



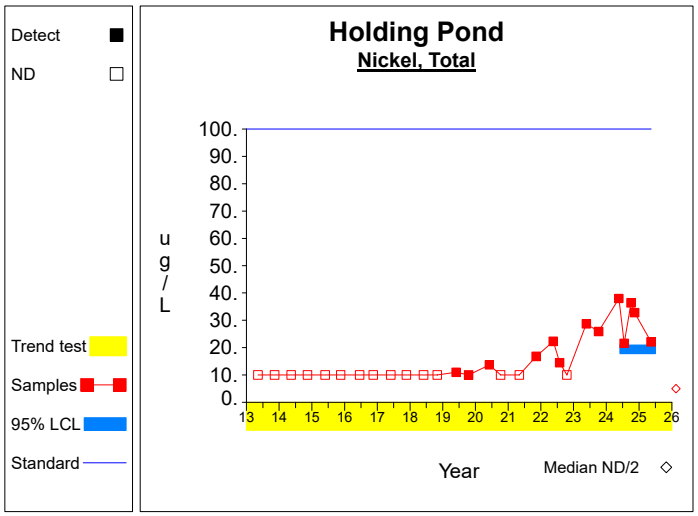
Graph 1



Graph 2

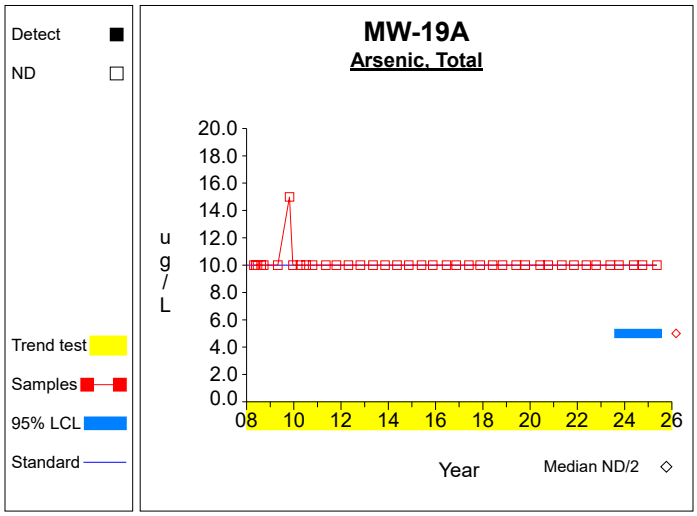


Graph 3

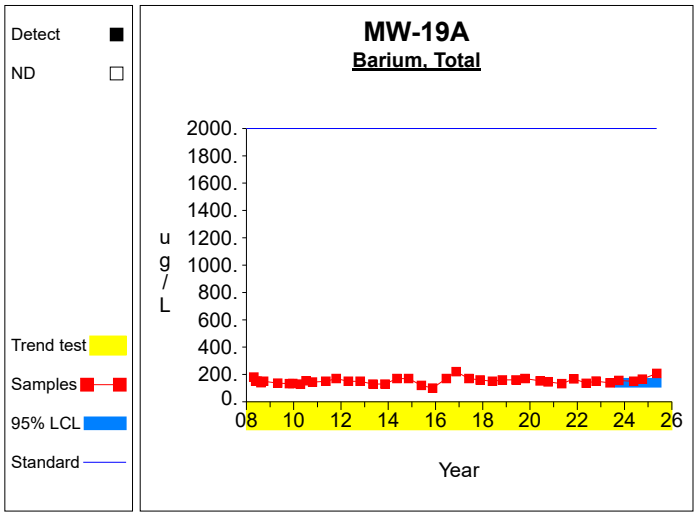


Graph 4

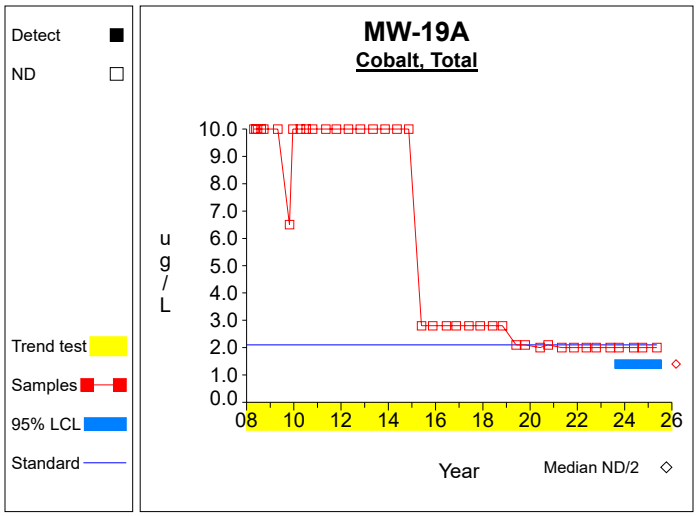
Confidence Limits (Assessment)



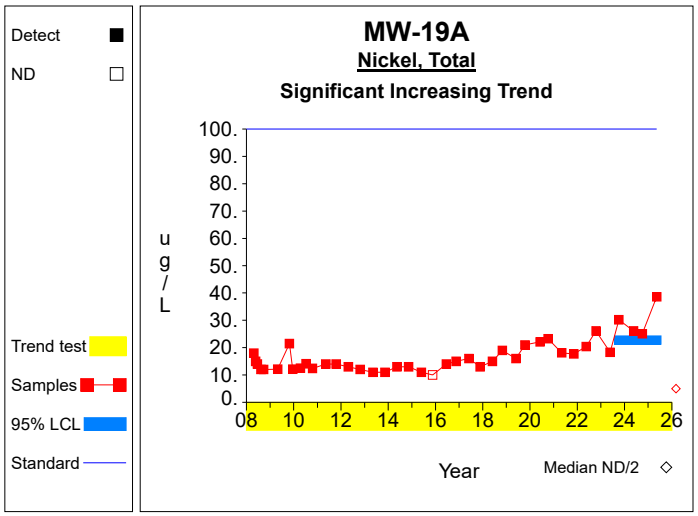
Graph 5



Graph 6

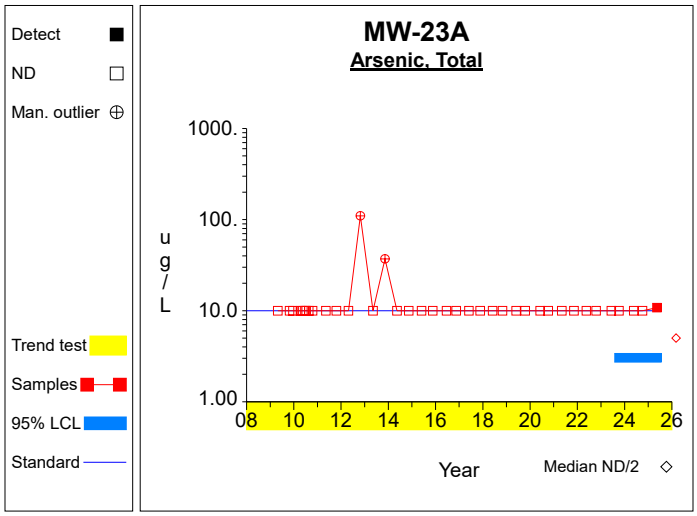


Graph 7

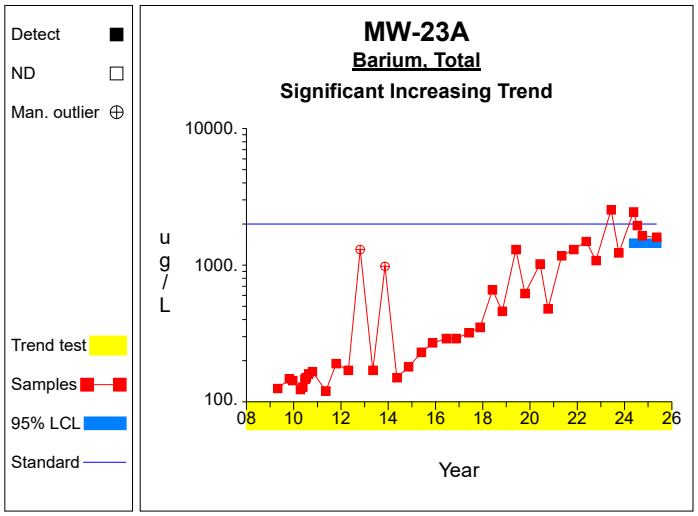


Graph 8

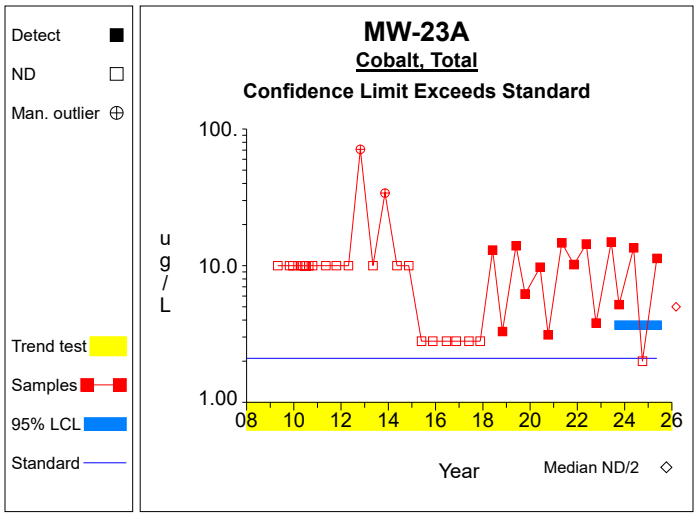
Confidence Limits (Assessment)



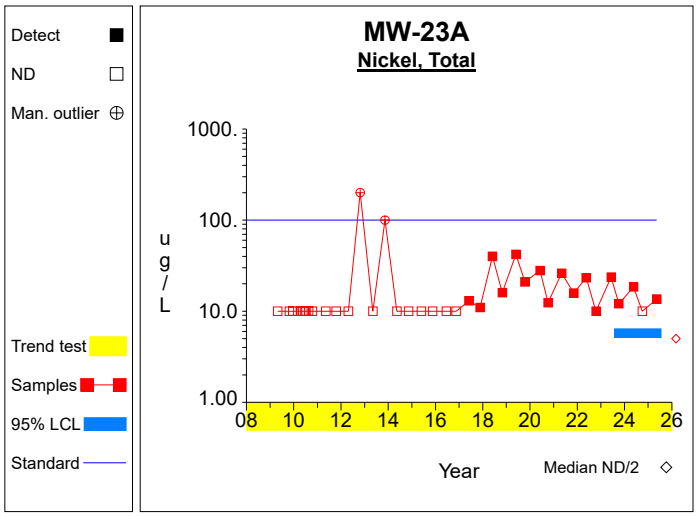
Graph 9



Graph 10

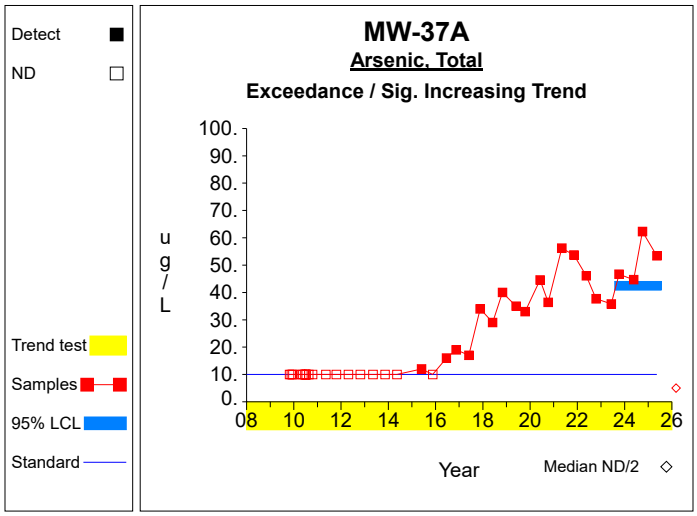


Graph 11

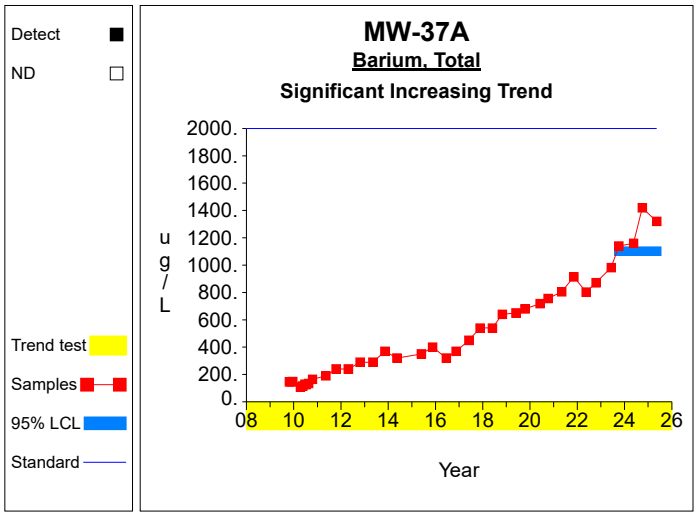


Graph 12

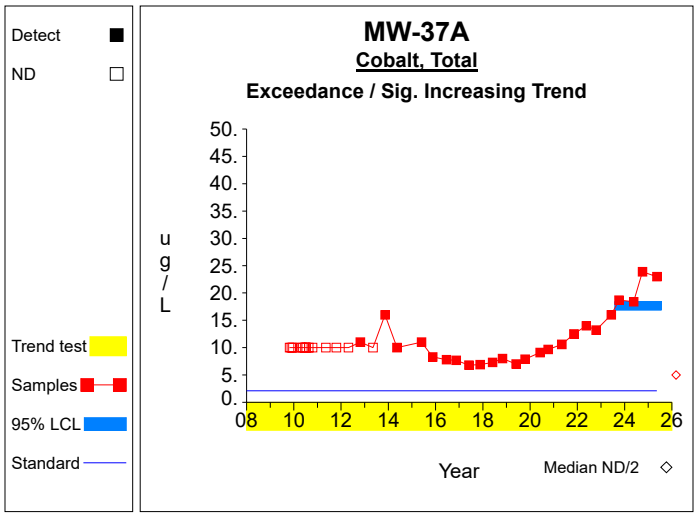
Confidence Limits (Assessment)



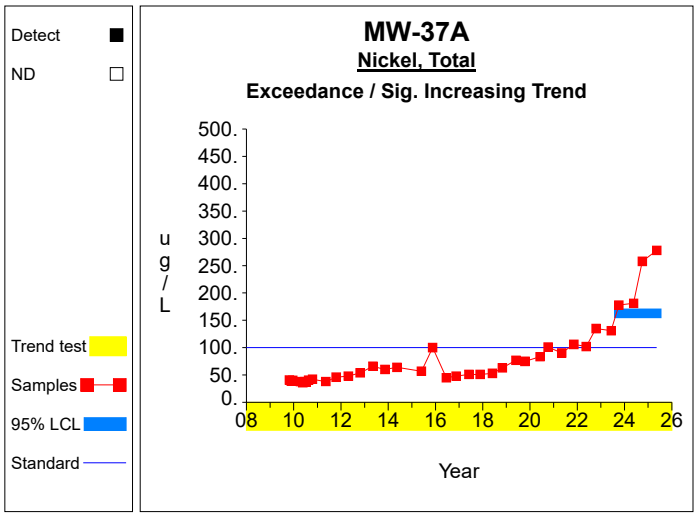
Graph 13



Graph 14

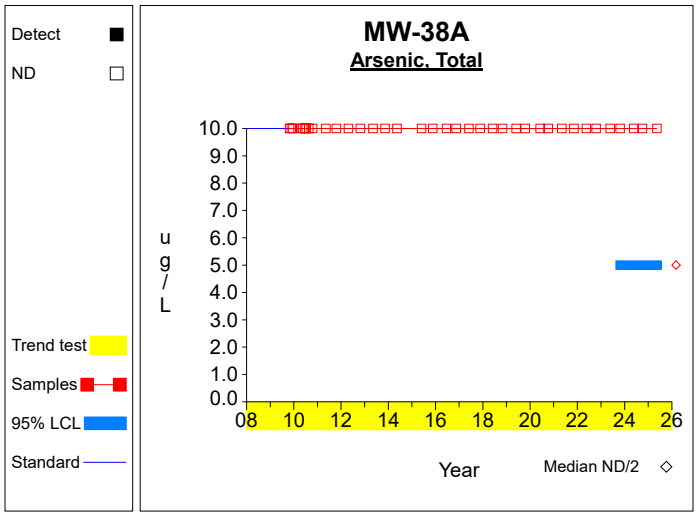


Graph 15

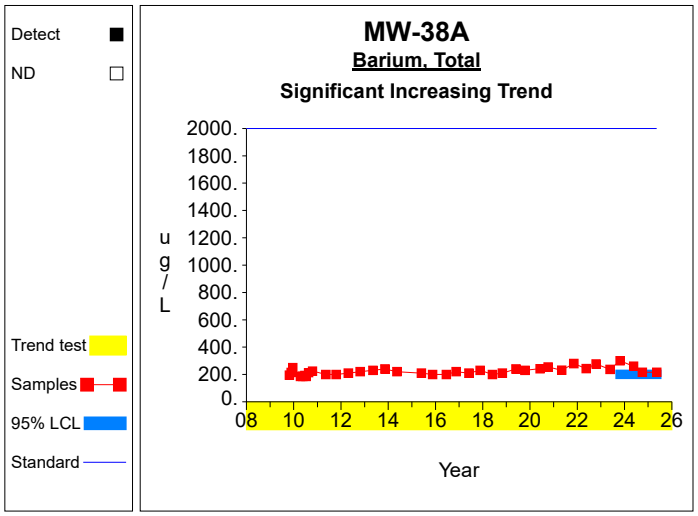


Graph 16

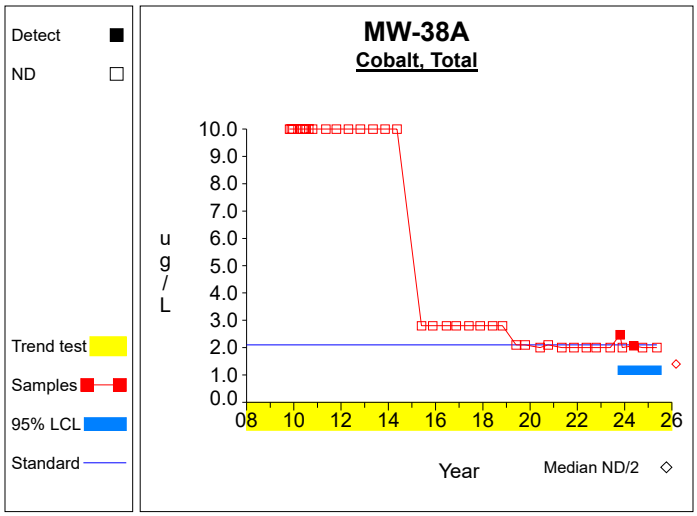
Confidence Limits (Assessment)



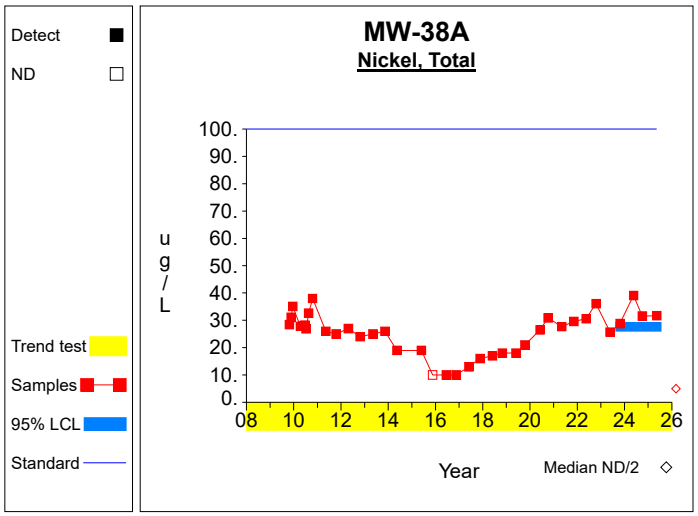
Graph 17



Graph 18



Graph 19



Graph 20

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

Step	Equation	Description
1	$\overline{X}$ = **sum[X]** / **N** = **59.6** / **4** = **14.9**	Compute the mean of the last 4 measurements.
2	S = ((**sum[X^2]** - **sum[X]**^{2}/**N**) / (**N**-1))^{½} = ((**1513.36** - **3552.16**/**4**) / (**4**-1))^{½} = **14.437**	Compute sd of the last 4 measurements.
3	LCL = $\overline{\mathbf{X}}$ - **tS**/**N**^{½} = **14.9** - **2.353** * **14.437**/**4**^{½} = **0.0**	Compute lower confidence limit for the mean of the last 4 measurements.
4	UCL = $\overline{\mathbf{X}}$ + **tS**/**N**^{½} = **14.9** + **2.353** * **14.437**/**4**^{½} = **31.883**	Compute upper confidence limit for the mean of the last 4 measurements.
5	N' = **N** * (**N**-1) / 2 = **29** * (**29**-1) / 2 = **406**	Number of sample pairs during trend detection period.
6	S = **0.0**	Sen's estimator of trend.
7	var(S) = **1215.667**	Variance estimate for slope.
8	M(S) = (**N**' ± **Z**$_{.995}$ * **var(S)**^{½}) / 2 = (**406** ± **2.576** * **1215.667**^{½}) / 2 = [**158.092**, **247.908**]	Ordinal positions for two-sided lower confidence limits for slope. The LCL and UCL are the Mth 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** = **590.7** / **4** = **147.675**	Compute the mean of the last 4 measurements.
2	S = ((**sum[X^2]** - **sum[X]**^{2}/**N**) / (**N**-1))^{½} = ((**110983.69** - **348926.49**/**4**) / (**4**-1))^{½} = **88.98**	Compute sd of the last 4 measurements.
3	LCL = $\overline{\mathbf{X}}$ - **tS**/**N**^{½} = **147.675** - **2.353** * **88.98**/**4**^{½} = **43.009**	Compute lower confidence limit for the mean of the last 4 measurements.
4	UCL = $\overline{\mathbf{X}}$ + **tS**/**N**^{½} = **147.675** + **2.353** * **88.98**/**4**^{½} = **252.341**	Compute upper confidence limit for the mean of the last 4 measurements.
5	N' = **N** * (**N**-1) / 2 = **25** * (**25**-1) / 2 = **300**	Number of sample pairs during trend detection period.
6	S = **-2.611**	Sen's estimator of trend.
7	var(S) = **1830.333**	Variance estimate for slope.
8	M(S) = (**N'** ± **Z**$_{.995}$ * **var(S)**^{½}) / 2 = (**300** ± **2.576** * **1830.333**^{½}) / 2 = [**94.896**, **205.104**]	Ordinal positions for two-sided lower confidence limits for slope. The LCL and UCL are the Mth largest slope estimates for the values shown. When the values are not integers, interpolation is used.
9	CL(S) = [**-11.192**, **7.746**]	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** = **11.82** / **4** = **2.955**	Compute the mean of the last 4 measurements.
2	S = ((**sum[X^2]** - **sum[X]**^{2}/**N**) / (**N**-1))^{½} = ((**51.137** - **139.712**/**4**) / (**4**-1))^{½} = **2.324**	Compute sd of the last 4 measurements.
3	LCL = $\overline{\mathbf{X}}$ - **tS**/**N**^{½} = **2.955** - **2.353** * **2.324**/**4**^{½} = **0.221**	Compute lower confidence limit for the mean of the last 4 measurements.
4	UCL = $\overline{\mathbf{X}}$ + **tS**/**N**^{½} = **2.955** + **2.353** * **2.324**/**4**^{½} = **5.689**	Compute upper confidence limit for the mean of the last 4 measurements.
5	N' = **N** * (**N**-1) / 2 = **27** * (**27**-1) / 2 = **351**	Number of sample pairs during trend detection period.
6	S = **0.0**	Sen's estimator of trend.
7	var(S) = **675.667**	Variance estimate for slope.
8	M(S) = (**N'** ± **Z**$_{.995}$ * **var(S)**^{½}) / 2 = (**351** ± **2.576** * **675.667**^{½}) / 2 = [**142.02**, **208.98**]	Ordinal positions for two-sided lower confidence limits for slope. The LCL and UCL are the Mth 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** = **112.9** / **4** = **28.225**	Compute the mean of the last 4 measurements.
2	S = ((**sum[X^2]** - **sum[X]**^{2}/**N**) / (**N**-1))^{½} = ((**3355.77** - **12746.41**/**4**) / (**4**-1))^{½} = **7.509**	Compute sd of the last 4 measurements.
3	LCL = $\overline{\mathbf{X}}$ - **tS**/**N**^{½} = **28.225** - **2.353** * **7.509**/**4**^{½} = **19.392**	Compute lower confidence limit for the mean of the last 4 measurements.
4	UCL = $\overline{\mathbf{X}}$ + **tS**/**N**^{½} = **28.225** + **2.353** * **7.509**/**4**^{½} = **37.058**	Compute upper confidence limit for the mean of the last 4 measurements.
5	N' = **N** * (**N**-1) / 2 = **28** * (**28**-1) / 2 = **378**	Number of sample pairs during trend detection period.
6	S = **1.916**	Sen's estimator of trend.
7	var(S) = **2153.667**	Variance estimate for slope.
8	M(S) = (**N'** ± **Z**$_{.995}$ * **var(S)**^{½}) / 2 = (**378** ± **2.576** * **2153.667**^{½}) / 2 = [**129.227**, **248.773**]	Ordinal positions for two-sided lower confidence limits for slope. The LCL and UCL are the Mth largest slope estimates for the values shown. When the values are not integers, interpolation is used.
9	CL(S) = [**0.0**, **2.935**]	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** = **20.0** / **4** = **5.0**	Compute the mean of the last 4 measurements.
2	S = ((**sum[X^2]** - **sum[X]**^{2}/**N**) / (**N**-1))^{½} = ((**100.0** - **400.0**/**4**) / (**4**-1))^{½} = **0.0**	Compute sd of the last 4 measurements.
3	LCL = $\overline{\mathbf{X}}$ - **tS**/**N**^{½} = **5.0** - **2.353** * **0.0**/**4**^{½} = **5.0**	Compute lower confidence limit for the mean of the last 4 measurements.
4	UCL = $\overline{\mathbf{X}}$ + **tS**/**N**^{½} = **5.0** + **2.353** * **0.0**/**4**^{½} = **5.0**	Compute upper confidence limit for the mean of the last 4 measurements.
5	N' = **N** * (**N**-1) / 2 = **40** * (**40**-1) / 2 = **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 = (**780** ± **2.576** * **0.0**^{½}) / 2 = [**390.0**, **390.0**]	Ordinal positions for two-sided lower confidence limits for slope. The LCL and UCL are the Mth 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** = **680.0** / **4** = **170.0**	Compute the mean of the last 4 measurements.
2	S = ((**sum[X^2]** - **sum[X]**^{2}/**N**) / (**N**-1))^{½} = ((**117656.0** - **462400.0**/**4**) / (**4**-1))^{½} = **26.179**	Compute sd of the last 4 measurements.
3	LCL = $\overline{\mathbf{X}}$ - **tS**/**N**^{½} = **170.0** - **2.353** * **26.179**/**4**^{½} = **139.206**	Compute lower confidence limit for the mean of the last 4 measurements.
4	UCL = $\overline{\mathbf{X}}$ + **tS**/**N**^{½} = **170.0** + **2.353** * **26.179**/**4**^{½} = **200.794**	Compute upper confidence limit for the mean of the last 4 measurements.
5	N' = **N** * (**N**-1) / 2 = **40** * (**40**-1) / 2 = **780**	Number of sample pairs during trend detection period.
6	S = **0.393**	Sen's estimator of trend.
7	var(S) = **7267.333**	Variance estimate for slope.
8	M(S) = (**N'** ± **Z**$_{.995}$ * **var(S)**^{½}) / 2 = (**780** ± **2.576** * **7267.333**^{½}) / 2 = [**280.2**, **499.8**]	Ordinal positions for two-sided lower confidence limits for slope. The LCL and UCL are the Mth largest slope estimates for the values shown. When the values are not integers, interpolation is used.
9	CL(S) = [**-0.81**, **2.162**]	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** = **5.6** / **4** = **1.4**	Compute the mean of the last 4 measurements.
2	S = ((**sum[X^2]** - **sum[X]**^{2}/**N**) / (**N**-1))^{½} = ((**7.84** - **31.36**/**4**) / (**4**-1))^{½} = **0.0**	Compute sd of the last 4 measurements.
3	LCL = $\overline{\mathbf{X}}$ - **tS**/**N**^{½} = **1.4** - **2.353** * **0.0**/**4**^{½} = **1.4**	Compute lower confidence limit for the mean of the last 4 measurements.
4	UCL = $\overline{\mathbf{X}}$ + **tS**/**N**^{½} = **1.4** + **2.353** * **0.0**/**4**^{½} = **1.4**	Compute upper confidence limit for the mean of the last 4 measurements.
5	N' = **N** * (**N**-1) / 2 = **40** * (**40**-1) / 2 = **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 = (**780** ± **2.576** * **0.0**^{½}) / 2 = [**390.0**, **390.0**]	Ordinal positions for two-sided lower confidence limits for slope. The LCL and UCL are the Mth 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** = **120.0** / **4** = **30.0**	Compute the mean of the last 4 measurements.
2	S = ((**sum[X^2]** - **sum[X]**^{2}/**N**) / (**N**-1))^{½} = ((**3713.22** - **14400.0**/**4**) / (**4**-1))^{½} = **6.143**	Compute sd of the last 4 measurements.
3	LCL = $\overline{\mathbf{X}}$ - **tS**/**N**^{½} = **30.0** - **2.353** * **6.143**/**4**^{½} = **22.774**	Compute lower confidence limit for the mean of the last 4 measurements.
4	UCL = $\overline{\mathbf{X}}$ + **tS**/**N**^{½} = **30.0** + **2.353** * **6.143**/**4**^{½} = **37.226**	Compute upper confidence limit for the mean of the last 4 measurements.
5	N' = **N** * (**N**-1) / 2 = **40** * (**40**-1) / 2 = **780**	Number of sample pairs during trend detection period.
6	S = **0.613**	Sen's estimator of trend.
7	var(S) = **7335.333**	Variance estimate for slope.
8	M(S) = (**N'** ± **Z**$_{.995}$ * **var(S)**^{½}) / 2 = (**780** ± **2.576** * **7335.333**^{½}) / 2 = [**279.687**, **500.313**]	Ordinal positions for two-sided lower confidence limits for slope. The LCL and UCL are the Mth largest slope estimates for the values shown. When the values are not integers, interpolation is used.
9	CL(S) = [**0.286**, **0.966**]	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** = **25.8** / **4** = **6.45**	Compute the mean of the last 4 measurements.
2	S = ((**sum[X^2]** - **sum[X]**^{2}/**N**) / (**N**-1))^{½} = ((**191.64** - **665.64**/**4**) / (**4**-1))^{½} = **2.9**	Compute sd of the last 4 measurements.
3	LCL = $\overline{\mathbf{X}}$ - **tS**/**N**^{½} = **6.45** - **2.353** * **2.9**/**4**^{½} = **3.039**	Compute lower confidence limit for the mean of the last 4 measurements.
4	UCL = $\overline{\mathbf{X}}$ + **tS**/**N**^{½} = **6.45** + **2.353** * **2.9**/**4**^{½} = **9.861**	Compute upper confidence limit for the mean of the last 4 measurements.
5	N' = **N** * (**N**-1) / 2 = **36** * (**36**-1) / 2 = **630**	Number of sample pairs during trend detection period.
6	S = **0.0**	Sen's estimator of trend.
7	var(S) = **431.667**	Variance estimate for slope.
8	M(S) = (**N'** ± **Z**$_{.995}$ * **var(S)**^{½}) / 2 = (**630** ± **2.576** * **431.667**^{½}) / 2 = [**288.24**, **341.76**]	Ordinal positions for two-sided lower confidence limits for slope. The LCL and UCL are the Mth 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** = **7640.0** / **4** = **1910.0**	Compute the mean of the last 4 measurements.
2	S = ((**sum[X^2]** - **sum[X]**^{2}/**N**) / (**N**-1))^{½} = ((**1.51**x**10^7** - **5.84**x**10^7**/**4**) / (**4**-1))^{½} = **392.513**	Compute sd of the last 4 measurements.
3	LCL = $\overline{\mathbf{X}}$ - **tS**/**N**^{½} = **1910.0** - **2.353** * **392.513**/**4**^{½} = **1448.291**	Compute lower confidence limit for the mean of the last 4 measurements.
4	UCL = $\overline{\mathbf{X}}$ + **tS**/**N**^{½} = **1910.0** + **2.353** * **392.513**/**4**^{½} = **2371.709**	Compute upper confidence limit for the mean of the last 4 measurements.
5	N' = **N** * (**N**-1) / 2 = **37** * (**37**-1) / 2 = **666**	Number of sample pairs during trend detection period.
6	S = **88.497**	Sen's estimator of trend.
7	var(S) = **5842.0**	Variance estimate for slope.
8	M(S) = (**N'** ± **Z**$_{.995}$ * **var(S)**^{½}) / 2 = (**666** ± **2.576** * **5842.0**^{½}) / 2 = [**234.554**, **431.446**]	Ordinal positions for two-sided lower confidence limits for slope. The LCL and UCL are the Mth largest slope estimates for the values shown. When the values are not integers, interpolation is used.
9	CL(S) = [**45.172**, **122.099**]	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** = **34.99** / **4** = **8.748**	Compute the mean of the last 4 measurements.
2	S = ((**sum[X^2]** - **sum[X]**^{2}/**N**) / (**N**-1))^{½} = ((**361.876** - **1224.3**/**4**) / (**4**-1))^{½} = **4.313**	Compute sd of the last 4 measurements.
3	LCL = $\overline{\mathbf{X}}$ - **tS**/**N**^{½} = **8.748** - **2.353** * **4.313**/**4**^{½} = **3.674**	Compute lower confidence limit for the mean of the last 4 measurements.
4	UCL = $\overline{\mathbf{X}}$ + **tS**/**N**^{½} = **8.748** + **2.353** * **4.313**/**4**^{½} = **13.821**	Compute upper confidence limit for the mean of the last 4 measurements.
5	N' = **N** * (**N**-1) / 2 = **36** * (**36**-1) / 2 = **630**	Number of sample pairs during trend detection period.
6	S = **0.0**	Sen's estimator of trend.
7	var(S) = **4132.333**	Variance estimate for slope.
8	M(S) = (**N'** ± **Z**$_{.995}$ * **var(S)**^{½}) / 2 = (**630** ± **2.576** * **4132.333**^{½}) / 2 = [**232.203**, **397.797**]	Ordinal positions for two-sided lower confidence limits for slope. The LCL and UCL are the Mth largest slope estimates for the values shown. When the values are not integers, interpolation is used.
9	CL(S) = [**0.0**, **0.403**]	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** = **49.2** / **4** = **12.3**	Compute the mean of the last 4 measurements.
2	S = ((**sum[X^2]** - **sum[X]**^{2}/**N**) / (**N**-1))^{½} = ((**698.62** - **2420.64**/**4**) / (**4**-1))^{½} = **5.582**	Compute sd of the last 4 measurements.
3	LCL = $\overline{\mathbf{X}}$ - **tS**/**N**^{½} = **12.3** - **2.353** * **5.582**/**4**^{½} = **5.735**	Compute lower confidence limit for the mean of the last 4 measurements.
4	UCL = $\overline{\mathbf{X}}$ + **tS**/**N**^{½} = **12.3** + **2.353** * **5.582**/**4**^{½} = **18.865**	Compute upper confidence limit for the mean of the last 4 measurements.
5	N' = **N** * (**N**-1) / 2 = **36** * (**36**-1) / 2 = **630**	Number of sample pairs during trend detection period.
6	S = **0.617**	Sen's estimator of trend.
7	var(S) = **4440.0**	Variance estimate for slope.
8	M(S) = (**N'** ± **Z**$_{.995}$ * **var(S)**^{½}) / 2 = (**630** ± **2.576** * **4440.0**^{½}) / 2 = [**229.176**, **400.824**]	Ordinal positions for two-sided lower confidence limits for slope. The LCL and UCL are the Mth largest slope estimates for the values shown. When the values are not integers, interpolation is used.
9	CL(S) = [**0.0**, **1.156**]	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** = **207.1** / **4** = **51.775**	Compute the mean of the last 4 measurements.
2	S = ((**sum[X^2]** - **sum[X]**^{2}/**N**) / (**N**-1))^{½} = ((**10911.83** - **42890.41**/**4**) / (**4**-1))^{½} = **7.942**	Compute sd of the last 4 measurements.
3	LCL = $\overline{\mathbf{X}}$ - **tS**/**N**^{½} = **51.775** - **2.353** * **7.942**/**4**^{½} = **42.433**	Compute lower confidence limit for the mean of the last 4 measurements.
4	UCL = $\overline{\mathbf{X}}$ + **tS**/**N**^{½} = **51.775** + **2.353** * **7.942**/**4**^{½} = **61.117**	Compute upper confidence limit for the mean of the last 4 measurements.
5	N' = **N** * (**N**-1) / 2 = **37** * (**37**-1) / 2 = **666**	Number of sample pairs during trend detection period.
6	S = **3.14**	Sen's estimator of trend.
7	var(S) = **5256.667**	Variance estimate for slope.
8	M(S) = (**N'** ± **Z**$_{.995}$ * **var(S)**^{½}) / 2 = (**666** ± **2.576** * **5256.667**^{½}) / 2 = [**239.616**, **426.384**]	Ordinal positions for two-sided lower confidence limits for slope. The LCL and UCL are the Mth largest slope estimates for the values shown. When the values are not integers, interpolation is used.
9	CL(S) = [**2.291**, **3.893**]	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** = **5040.0** / **4** = **1260.0**	Compute the mean of the last 4 measurements.
2	S = ((**sum[X^2]** - **sum[X]**^{2}/**N**) / (**N**-1))^{½} = ((**6.40**x**10^6** - **2.54**x**10^7**/**4**) / (**4**-1))^{½} = **133.666**	Compute sd of the last 4 measurements.
3	LCL = $\overline{\mathbf{X}}$ - **tS**/**N**^{½} = **1260.0** - **2.353** * **133.666**/**4**^{½} = **1102.77**	Compute lower confidence limit for the mean of the last 4 measurements.
4	UCL = $\overline{\mathbf{X}}$ + **tS**/**N**^{½} = **1260.0** + **2.353** * **133.666**/**4**^{½} = **1417.23**	Compute upper confidence limit for the mean of the last 4 measurements.
5	N' = **N** * (**N**-1) / 2 = **37** * (**37**-1) / 2 = **666**	Number of sample pairs during trend detection period.
6	S = **62.79**	Sen's estimator of trend.
7	var(S) = **5840.0**	Variance estimate for slope.
8	M(S) = (**N'** ± **Z**$_{.995}$ * **var(S)**^{½}) / 2 = (**666** ± **2.576** * **5840.0**^{½}) / 2 = [**234.571**, **431.429**]	Ordinal positions for two-sided lower confidence limits for slope. The LCL and UCL are the Mth largest slope estimates for the values shown. When the values are not integers, interpolation is used.
9	CL(S) = [**56.294**, **74.656**]	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** = **84.0** / **4** = **21.0**	Compute the mean of the last 4 measurements.
2	S = ((**sum[X^2]** - **sum[X]**^{2}/**N**) / (**N**-1))^{½} = ((**1788.46** - **7056.0**/**4**) / (**4**-1))^{½} = **2.855**	Compute sd of the last 4 measurements.
3	LCL = $\overline{\mathbf{X}}$ - **tS**/**N**^{½} = **21.0** - **2.353** * **2.855**/**4**^{½} = **17.641**	Compute lower confidence limit for the mean of the last 4 measurements.
4	UCL = $\overline{\mathbf{X}}$ + **tS**/**N**^{½} = **21.0** + **2.353** * **2.855**/**4**^{½} = **24.359**	Compute upper confidence limit for the mean of the last 4 measurements.
5	N' = **N** * (**N**-1) / 2 = **37** * (**37**-1) / 2 = **666**	Number of sample pairs during trend detection period.
6	S = **0.613**	Sen's estimator of trend.
7	var(S) = **5575.333**	Variance estimate for slope.
8	M(S) = (**N'** ± **Z**$_{.995}$ * **var(S)**^{½}) / 2 = (**666** ± **2.576** * **5575.333**^{½}) / 2 = [**236.827**, **429.173**]	Ordinal positions for two-sided lower confidence limits for slope. The LCL and UCL are the Mth largest slope estimates for the values shown. When the values are not integers, interpolation is used.
9	CL(S) = [**0.35**, **0.964**]	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** = **895.0** / **4** = **223.75**	Compute the mean of the last 4 measurements.
2	S = ((**sum[X^2]** - **sum[X]**^{2}/**N**) / (**N**-1))^{½} = ((**208293.0** - **801025.0**/**4**) / (**4**-1))^{½} = **51.758**	Compute sd of the last 4 measurements.
3	LCL = $\overline{\mathbf{X}}$ - **tS**/**N**^{½} = **223.75** - **2.353** * **51.758**/**4**^{½} = **162.867**	Compute lower confidence limit for the mean of the last 4 measurements.
4	UCL = $\overline{\mathbf{X}}$ + **tS**/**N**^{½} = **223.75** + **2.353** * **51.758**/**4**^{½} = **284.633**	Compute upper confidence limit for the mean of the last 4 measurements.
5	N' = **N** * (**N**-1) / 2 = **37** * (**37**-1) / 2 = **666**	Number of sample pairs during trend detection period.
6	S = **6.347**	Sen's estimator of trend.
7	var(S) = **5843.0**	Variance estimate for slope.
8	M(S) = (**N'** ± **Z**$_{.995}$ * **var(S)**^{½}) / 2 = (**666** ± **2.576** * **5843.0**^{½}) / 2 = [**234.546**, **431.454**]	Ordinal positions for two-sided lower confidence limits for slope. The LCL and UCL are the Mth largest slope estimates for the values shown. When the values are not integers, interpolation is used.
9	CL(S) = [**4.386**, **10.044**]	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** = **20.0** / **4** = **5.0**	Compute the mean of the last 4 measurements.
2	S = ((**sum[X^2]** - **sum[X]**^{2}/**N**) / (**N**-1))^{½} = ((**100.0** - **400.0**/**4**) / (**4**-1))^{½} = **0.0**	Compute sd of the last 4 measurements.
3	LCL = $\overline{\mathbf{X}}$ - **tS**/**N**^{½} = **5.0** - **2.353** * **0.0**/**4**^{½} = **5.0**	Compute lower confidence limit for the mean of the last 4 measurements.
4	UCL = $\overline{\mathbf{X}}$ + **tS**/**N**^{½} = **5.0** + **2.353** * **0.0**/**4**^{½} = **5.0**	Compute upper confidence limit for the mean of the last 4 measurements.
5	N' = **N** * (**N**-1) / 2 = **37** * (**37**-1) / 2 = **666**	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 = (**666** ± **2.576** * **0.0**^{½}) / 2 = [**333.0**, **333.0**]	Ordinal positions for two-sided lower confidence limits for slope. The LCL and UCL are the Mth 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** = **992.0** / **4** = **248.0**	Compute the mean of the last 4 measurements.
2	S = ((**sum[X^2]** - **sum[X]**^{2}/**N**) / (**N**-1))^{½} = ((**250912.0** - **984064.0**/**4**) / (**4**-1))^{½} = **40.398**	Compute sd of the last 4 measurements.
3	LCL = $\overline{\mathbf{X}}$ - **tS**/**N**^{½} = **248.0** - **2.353** * **40.398**/**4**^{½} = **200.48**	Compute lower confidence limit for the mean of the last 4 measurements.
4	UCL = $\overline{\mathbf{X}}$ + **tS**/**N**^{½} = **248.0** + **2.353** * **40.398**/**4**^{½} = **295.52**	Compute upper confidence limit for the mean of the last 4 measurements.
5	N' = **N** * (**N**-1) / 2 = **37** * (**37**-1) / 2 = **666**	Number of sample pairs during trend detection period.
6	S = **3.269**	Sen's estimator of trend.
7	var(S) = **5810.333**	Variance estimate for slope.
8	M(S) = (**N'** ± **Z**$_{.995}$ * **var(S)**^{½}) / 2 = (**666** ± **2.576** * **5810.333**^{½}) / 2 = [**234.822**, **431.178**]	Ordinal positions for two-sided lower confidence limits for slope. The LCL and UCL are the Mth largest slope estimates for the values shown. When the values are not integers, interpolation is used.
9	CL(S) = [**1.396**, **5.414**]	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** = **6.27** / **4** = **1.568**	Compute the mean of the last 4 measurements.
2	S = ((**sum[X^2]** - **sum[X]**^{2}/**N**) / (**N**-1))^{½} = ((**10.165** - **39.313**/**4**) / (**4**-1))^{½} = **0.335**	Compute sd of the last 4 measurements.
3	LCL = $\overline{\mathbf{X}}$ - **tS**/**N**^{½} = **1.568** - **2.353** * **0.335**/**4**^{½} = **1.173**	Compute lower confidence limit for the mean of the last 4 measurements.
4	UCL = $\overline{\mathbf{X}}$ + **tS**/**N**^{½} = **1.568** + **2.353** * **0.335**/**4**^{½} = **1.962**	Compute upper confidence limit for the mean of the last 4 measurements.
5	N' = **N** * (**N**-1) / 2 = **38** * (**38**-1) / 2 = **703**	Number of sample pairs during trend detection period.
6	S = **0.0**	Sen's estimator of trend.
7	var(S) = **937.0**	Variance estimate for slope.
8	M(S) = (**N'** ± **Z**$_{.995}$ * **var(S)**^{½}) / 2 = (**703** ± **2.576** * **937.0**^{½}) / 2 = [**312.074**, **390.926**]	Ordinal positions for two-sided lower confidence limits for slope. The LCL and UCL are the Mth 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** = **131.2** / **4** = **32.8**	Compute the mean of the last 4 measurements.
2	S = ((**sum[X^2]** - **sum[X]**^{2}/**N**) / (**N**-1))^{½} = ((**4361.7** - **17213.44**/**4**) / (**4**-1))^{½} = **4.41**	Compute sd of the last 4 measurements.
3	LCL = $\overline{\mathbf{X}}$ - **tS**/**N**^{½} = **32.8** - **2.353** * **4.41**/**4**^{½} = **27.613**	Compute lower confidence limit for the mean of the last 4 measurements.
4	UCL = $\overline{\mathbf{X}}$ + **tS**/**N**^{½} = **32.8** + **2.353** * **4.41**/**4**^{½} = **37.987**	Compute upper confidence limit for the mean of the last 4 measurements.
5	N' = **N** * (**N**-1) / 2 = **37** * (**37**-1) / 2 = **666**	Number of sample pairs during trend detection period.
6	S = **0.031**	Sen's estimator of trend.
7	var(S) = **5841.0**	Variance estimate for slope.
8	M(S) = (**N'** ± **Z**$_{.995}$ * **var(S)**^{½}) / 2 = (**666** ± **2.576** * **5841.0**^{½}) / 2 = [**234.563**, **431.437**]	Ordinal positions for two-sided lower confidence limits for slope. The LCL and UCL are the Mth largest slope estimates for the values shown. When the values are not integers, interpolation is used.
9	CL(S) = [**-0.98**, **0.655**]	Two-sided confidence interval for slope.
10	the interval includes 0	There is no significant trend.

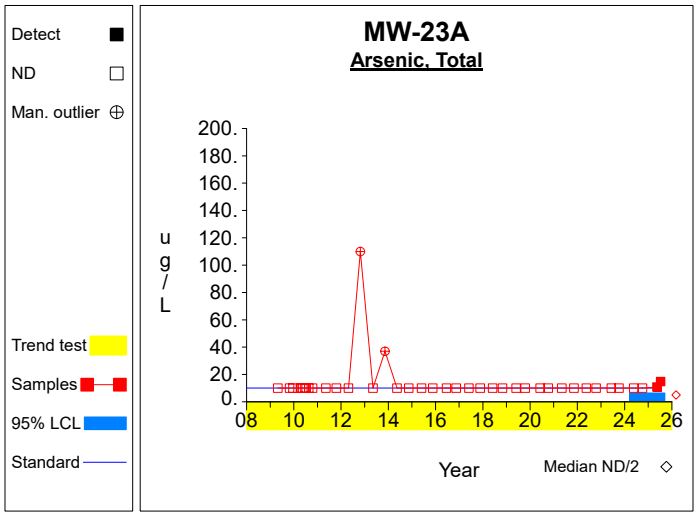
Table 1

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

Constituent	Units	Well	N	Mean	SD	Factor	95% LCL	95% UCL	Standard	Trend
Arsenic, Total	ug/L	MW-23A	4	8.900	4.790	1.176	3.265	14.535	10.000	

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

Confidence Limits (Assessment)



Graph 1

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	10	25			6.0000	6.0000			6.0000	nonpar	.99	**
Arsenic, Total	ug/L	Holding Pond	15	14	71			10.0000	10.0000			10.0000	nonpar	.99	**
Barium, Total	ug/L	Holding Pond	15	10	67	124.1800	49.7636	166.0000	116.0000	128.6773	124.1800	447.6433	normal		
Beryllium, Total	ug/L	Holding Pond	15	10	25			4.0000	4.0000			4.0000	nonpar	.99	**
Cadmium, Total	ug/L	Holding Pond	15	10	67			5.0000	5.0000			5.0000	nonpar	.99	**
Chromium, Total	ug/L	Holding Pond	15	10	67			10.0000	10.0000			10.0000	nonpar	.99	**
Cobalt, Total	ug/L	Holding Pond	15	12	27			5.7800	2.0000			2.8000	nonpar	.99	**
Copper, Total	ug/L	Holding Pond	15	10	67			10.0000	10.0000			10.0000	nonpar	.99	**
Lead, Total	ug/L	Holding Pond	15	10	67			10.0000	10.0000			10.0000	nonpar	.99	**
Nickel, Total	ug/L	Holding Pond	15	13	28			32.8000	22.1000			13.7000	nonpar	.99	**
Selenium, Total	ug/L	Holding Pond	15	10	25			10.0000	10.0000			10.0000	nonpar	.99	**
Silver, Total	ug/L	Holding Pond	15	10	25			10.0000	10.0000			10.0000	nonpar	.99	**
Thallium, Total	ug/L	Holding Pond	15	10	25			2.0000	2.0000			2.0000	nonpar	.99	**
Vanadium, Total	ug/L	Holding Pond	15	10	25			20.0000	20.0000			20.0000	nonpar	.99	**
Zinc, Total	ug/L	Holding Pond	15	10	68			50.0000	50.0000			20.0000	nonpar	.99	**
Antimony, Total	ug/L	MW-11A	26	10	36			6.0000	6.0000			6.0000	nonpar	.99	**
Arsenic, Total	ug/L	MW-11A	26	10	36			10.0000	10.0000			10.0000	nonpar	.99	**
Barium, Total	ug/L	MW-11A	26	10	36	211.8462	43.9615	237.0000	235.0000	211.8462	211.8462	497.5960	normal		
Beryllium, Total	ug/L	MW-11A	26	10	36			4.0000	4.0000			4.0000	nonpar	.99	**
Cadmium, Total	ug/L	MW-11A	26	10	36			5.0000	5.0000			5.0000	nonpar	.99	**
Chromium, Total	ug/L	MW-11A	25	10	36			10.0000	10.0000			13.0000	nonpar	.99	**
Cobalt, Total	ug/L	MW-11A	26	10	36			2.0000	2.0000			11.0000	nonpar	.99	**
Copper, Total	ug/L	MW-11A	25	10	36			10.0000	10.0000			15.0000	nonpar	.99	**
Lead, Total	ug/L	MW-11A	26	10	36			10.0000	10.0000			10.0000	nonpar	.99	**
Nickel, Total	ug/L	MW-11A	25	10	36			10.0000	10.0000			13.0000	nonpar	.99	**
Selenium, Total	ug/L	MW-11A	24	10	36			10.0000	10.0000			25.0000	nonpar	.99	**
Silver, Total	ug/L	MW-11A	26	10	36			10.0000	10.0000			10.0000	nonpar	.99	**
Thallium, Total	ug/L	MW-11A	26	10	36			2.0000	2.0000			2.0000	nonpar	.99	**
Vanadium, Total	ug/L	MW-11A	25	10	36			20.0000	20.0000			33.0000	nonpar	.99	**
Zinc, Total	ug/L	MW-11A	25	10	36			50.0000	50.0000			34.0000	nonpar	.99	**
Antimony, Total	ug/L	MW-12A	30	10	40			6.0000	6.0000			6.0000	nonpar	.99	**
Arsenic, Total	ug/L	MW-12A	30	10	40			10.0000	10.0000			10.0000	nonpar	.99	**
Barium, Total	ug/L	MW-12A	30	10	40	226.8833	23.8688	283.0000	267.0000	416.3889	400.3889	382.0304	normal		
Beryllium, Total	ug/L	MW-12A	30	10	40			4.0000	4.0000			4.0000	nonpar	.99	**
Cadmium, Total	ug/L	MW-12A	30	10	40			5.0000	5.0000			5.0000	nonpar	.99	**
Chromium, Total	ug/L	MW-12A	30	10	40			10.0000	10.0000			10.0000	nonpar	.99	**
Cobalt, Total	ug/L	MW-12A	30	10	40			2.4000	2.2000			10.0000	nonpar	.99	**
Copper, Total	ug/L	MW-12A	29	10	40			10.0000	10.0000			10.0000	nonpar	.99	**
Lead, Total	ug/L	MW-12A	30	10	40			10.0000	10.0000			10.0000	nonpar	.99	**
Nickel, Total	ug/L	MW-12A	30	10	40			13.2000	14.5000			11.0000	nonpar	.99	**
Selenium, Total	ug/L	MW-12A	30	10	40			10.0000	10.0000			10.0000	nonpar	.99	**
Silver, Total	ug/L	MW-12A	30	10	40			10.0000	10.0000			10.0000	nonpar	.99	**
Thallium, Total	ug/L	MW-12A	30	10	40			2.0000	2.0000			2.0000	nonpar	.99	**
Vanadium, Total	ug/L	MW-12A	30	10	40			20.0000	20.0000			20.0000	nonpar	.99	**
Zinc, Total	ug/L	MW-12A	30	10	40			50.0000	50.0000			20.0000	nonpar	.99	**
Antimony, Total	ug/L	MW-13A	29	10	39			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	10	39			10.0000	10.0000			10.0000	nonpar	.99	**
Barium, Total	ug/L	MW-13A	29	10	39	229.7241	56.1604	420.0000	396.0000	742.6574	718.6574	594.7669	normal		
Beryllium, Total	ug/L	MW-13A	29	10	39			4.0000	4.0000			4.0000	nonpar	.99	**
Cadmium, Total	ug/L	MW-13A	29	10	39			5.0000	5.0000			5.0000	nonpar	.99	**
Chromium, Total	ug/L	MW-13A	29	10	40			10.0000	10.0000			10.0000	nonpar	.99	**
Cobalt, Total	ug/L	MW-13A	29	10	39			2.0000	2.3700			10.0000	nonpar	.99	**
Copper, Total	ug/L	MW-13A	29	10	39			10.0000	10.0000			10.0000	nonpar	.99	**
Lead, Total	ug/L	MW-13A	29	10	39			10.0000	10.0000			10.0000	nonpar	.99	**
Nickel, Total	ug/L	MW-13A	29	10	39			10.0000	10.0000			10.0000	nonpar	.99	**
Selenium, Total	ug/L	MW-13A	29	10	39			10.0000	10.0000			10.0000	nonpar	.99	**
Silver, Total	ug/L	MW-13A	29	10	39			10.0000	10.0000			10.0000	nonpar	.99	**
Thallium, Total	ug/L	MW-13A	29	10	39			2.0000	2.0000			2.0000	nonpar	.99	**
Vanadium, Total	ug/L	MW-13A	29	10	39			20.0000	20.0000			20.0000	nonpar	.99	**
Zinc, Total	ug/L	MW-13A	29	10	39			50.0000	50.0000			20.0000	nonpar	.99	**
Antimony, Total	ug/L	MW-19A	30	10	40			6.0000	6.0000			6.0000	nonpar	.99	**
Arsenic, Total	ug/L	MW-19A	30	10	40			10.0000	10.0000			10.0000	nonpar	.99	**
Barium, Total	ug/L	MW-19A	30	10	40	151.8000	21.9080	166.0000	208.0000	151.8000	191.5690	294.2017	normal		
Beryllium, Total	ug/L	MW-19A	30	10	40			4.0000	4.0000			4.0000	nonpar	.99	**
Cadmium, Total	ug/L	MW-19A	30	10	40			5.0000	5.0000			5.0000	nonpar	.99	**
Chromium, Total	ug/L	MW-19A	30	10	43			10.0000	10.0000			10.0000	nonpar	.99	**
Cobalt, Total	ug/L	MW-19A	30	10	40			2.0000	2.0000			10.0000	nonpar	.99	**
Copper, Total	ug/L	MW-19A	30	10	40			10.0000	10.0000			10.0000	nonpar	.99	**
Lead, Total	ug/L	MW-19A	30	10	40			10.0000	10.0000			10.0000	nonpar	.99	**
Nickel, Total	ug/L	MW-19A	30	10	40	14.2933	3.1695	25.1000	38.6000	37.1708	50.6708	34.8948	normal		
Selenium, Total	ug/L	MW-19A	30	10	40			10.0000	10.0000			10.0000	nonpar	.99	**
Silver, Total	ug/L	MW-19A	30	10	40			10.0000	10.0000			10.0000	nonpar	.99	**
Thallium, Total	ug/L	MW-19A	30	10	40			2.0000	2.0000			2.0000	nonpar	.99	**
Vanadium, Total	ug/L	MW-19A	30	10	40			20.0000	20.0000			22.0000	nonpar	.99	**
Zinc, Total	ug/L	MW-19A	30	10	40			50.0000	50.0000			20.0000	nonpar	.99	**
Antimony, Total	ug/L	MW-21A	29	10	39			6.0000	6.0000			6.0000	nonpar	.99	**
Arsenic, Total	ug/L	MW-21A	29	10	39			10.0000	10.0000			10.0000	nonpar	.99	**
Barium, Total	ug/L	MW-21A	29	10	39	238.8276	33.8020	290.0000	296.0000	367.2157	399.0366	458.5407	normal		
Beryllium, Total	ug/L	MW-21A	29	10	39			4.0000	4.0000			4.0000	nonpar	.99	**
Cadmium, Total	ug/L	MW-21A	29	10	39			5.0000	5.0000			5.0000	nonpar	.99	**
Chromium, Total	ug/L	MW-21A	29	10	43			10.0000	10.0000			10.0000	nonpar	.99	**
Cobalt, Total	ug/L	MW-21A	29	10	39			2.0000	2.0000			10.0000	nonpar	.99	**
Copper, Total	ug/L	MW-21A	29	10	39			10.0000	10.0000			10.0000	nonpar	.99	**
Lead, Total	ug/L	MW-21A	29	10	39			10.0000	10.0000			10.0000	nonpar	.99	**
Nickel, Total	ug/L	MW-21A	29	10	39			10.0000	10.0000			10.0000	nonpar	.99	**
Selenium, Total	ug/L	MW-21A	29	10	39			10.0000	10.0000			10.0000	nonpar	.99	**
Silver, Total	ug/L	MW-21A	29	10	39			10.0000	10.0000			10.0000	nonpar	.99	**
Thallium, Total	ug/L	MW-21A	29	10	39			2.0000	2.0000			2.0000	nonpar	.99	**
Vanadium, Total	ug/L	MW-21A	29	10	39			20.0000	20.0000			20.0000	nonpar	.99	**
Zinc, Total	ug/L	MW-21A	29	10	39			50.0000	50.0000			20.0000	nonpar	.99	**
Antimony, Total	ug/L	MW-23A	19	19	38			6.0000	6.0000			6.0000	nonpar	.99	**
Arsenic, Total	ug/L	MW-23A	17	19	38			10.0000	10.8000			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	20	39	162.8235	39.1092	1640.0000	1600.0000	1806.3572	1766.3572	417.0333	normal		
Beryllium, Total	ug/L	MW-23A	18	19	38			4.0000	4.0000			4.0000	nonpar	.99	**
Cadmium, Total	ug/L	MW-23A	19	19	38			5.0000	5.0000			5.0000	nonpar	.99	**
Chromium, Total	ug/L	MW-23A	17	19	38			10.0000	10.0000			10.0000	nonpar	.99	**
Cobalt, Total	ug/L	MW-23A	15	19	38			2.0000	11.3000			10.0000	nonpar	.99	**
Copper, Total	ug/L	MW-23A	17	19	38			10.0000	10.0000			10.0000	nonpar	.99	**
Lead, Total	ug/L	MW-23A	18	19	38			10.0000	10.0000			10.0000	nonpar	.99	**
Nickel, Total	ug/L	MW-23A	17	19	38			10.0000	13.6000			10.0000	nonpar	.99	**
Selenium, Total	ug/L	MW-23A	19	19	38			10.0000	10.0000			10.0000	nonpar	.99	**
Silver, Total	ug/L	MW-23A	19	19	38			10.0000	10.0000			10.0000	nonpar	.99	**
Thallium, Total	ug/L	MW-23A	19	20	39			2.0000	2.0000			2.0000	nonpar	.99	**
Vanadium, Total	ug/L	MW-23A	17	19	38			20.0000	20.0000			20.0000	nonpar	.99	**
Zinc, Total	ug/L	MW-23A	17	19	38			50.0000	50.0000			20.0000	nonpar	.99	**
Antimony, Total	ug/L	MW-34A	27	6	33			6.0000	6.0000			6.0000	nonpar	.99	**
Arsenic, Total	ug/L	MW-34A	27	6	33			10.0000	10.0000			10.0000	nonpar	.99	**
Barium, Total	ug/L	MW-34A	27	6	33	74.9481	76.3227	186.0000	43.7000	396.3777	307.8876	571.0455	normal		
Beryllium, Total	ug/L	MW-34A	27	6	33			4.0000	4.0000			4.0000	nonpar	.99	**
Cadmium, Total	ug/L	MW-34A	27	6	33			5.0000	5.0000			5.0000	nonpar	.99	**
Chromium, Total	ug/L	MW-34A	27	6	33			10.0000	10.0000			10.0000	nonpar	.99	**
Cobalt, Total	ug/L	MW-34A	27	6	33			2.0000	4.0200			10.0000	nonpar	.99	**
Copper, Total	ug/L	MW-34A	27	6	33			10.0000	10.0000			10.0000	nonpar	.99	**
Lead, Total	ug/L	MW-34A	27	6	33			10.0000	10.0000			10.0000	nonpar	.99	**
Nickel, Total	ug/L	MW-34A	27	6	33			10.0000	10.0000			21.0000	nonpar	.99	**
Selenium, Total	ug/L	MW-34A	27	6	33			10.0000	10.0000			25.0000	nonpar	.99	**
Silver, Total	ug/L	MW-34A	27	6	33			10.0000	10.0000			10.0000	nonpar	.99	**
Thallium, Total	ug/L	MW-34A	27	6	33			2.0000	2.0000			2.0000	nonpar	.99	**
Vanadium, Total	ug/L	MW-34A	27	6	33			20.0000	20.0000			20.0000	nonpar	.99	**
Zinc, Total	ug/L	MW-34A	27	6	33			50.0000	50.0000			20.0000	nonpar	.99	**
Antimony, Total	ug/L	MW-36A	25	6	31			6.0000	6.0000			6.0000	nonpar	.99	**
Arsenic, Total	ug/L	MW-36A	25	6	31			10.0000	10.0000			10.0000	nonpar	.99	**
Barium, Total	ug/L	MW-36A	25	6	31	80.1760	98.1652	267.0000	42.6000	324.1763	212.9764	718.2501	normal		
Beryllium, Total	ug/L	MW-36A	25	6	31			4.0000	4.0000			4.0000	nonpar	.99	**
Cadmium, Total	ug/L	MW-36A	25	6	31			5.0000	5.0000			5.0000	nonpar	.99	**
Chromium, Total	ug/L	MW-36A	25	6	31			10.0000	10.0000			10.0000	nonpar	.99	**
Cobalt, Total	ug/L	MW-36A	25	6	31			2.0000	2.0000			10.0000	nonpar	.99	**
Copper, Total	ug/L	MW-36A	25	6	31			10.0000	10.0000			10.0000	nonpar	.99	**
Lead, Total	ug/L	MW-36A	25	6	31			10.0000	10.0000			10.0000	nonpar	.99	**
Nickel, Total	ug/L	MW-36A	25	6	31			10.0000	71.3000			10.0000	nonpar	.99	**
Selenium, Total	ug/L	MW-36A	23	6	31			10.0000	10.0000			10.0000	nonpar	.99	**
Silver, Total	ug/L	MW-36A	25	6	31			10.0000	10.0000			10.0000	nonpar	.99	**
Thallium, Total	ug/L	MW-36A	25	6	31			2.0000	2.0000			2.0000	nonpar	.99	**
Vanadium, Total	ug/L	MW-36A	25	6	31			20.0000	20.0000			20.0000	nonpar	.99	**
Zinc, Total	ug/L	MW-36A	25	6	31			50.0000	50.0000			20.0000	nonpar	.99	**
Antimony, Total	ug/L	MW-37A	18	19	37			6.0000	6.0000			6.0000	nonpar	.99	**
Arsenic, Total	ug/L	MW-37A	18	19	37			62.3000	53.4000			12.0000	nonpar	.99	**
Barium, Total	ug/L	MW-37A	18	19	37	217.0000	97.1851	1420.0000	1320.0000	1867.5559	1767.5559	848.7031	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-37A	18	19	37			4.0000	4.0000			4.0000	nonpar	.99	**
Cadmium, Total	ug/L	MW-37A	18	19	37			5.0000	5.0000			5.0000	nonpar	.99	**
Chromium, Total	ug/L	MW-37A	18	19	37			10.0000	10.0000			12.0000	nonpar	.99	**
Cobalt, Total	ug/L	MW-37A	18	19	37	10.3500	1.5085	23.9000	23.0000	32.5431	31.6431	20.1553	normal		
Copper, Total	ug/L	MW-37A	18	19	37			10.0000	10.0000			13.0000	nonpar	.99	**
Lead, Total	ug/L	MW-37A	18	19	37			10.0000	10.0000			10.0000	nonpar	.99	**
Nickel, Total	ug/L	MW-37A	18	19	37	49.1389	16.0530	258.0000	278.0000	339.4670	359.4670	153.4834	normal		
Selenium, Total	ug/L	MW-37A	18	19	37			10.0000	10.0000			10.0000	nonpar	.99	**
Silver, Total	ug/L	MW-37A	18	19	37			10.0000	10.0000			10.0000	nonpar	.99	**
Thallium, Total	ug/L	MW-37A	18	19	37			2.0000	2.0000			2.0000	nonpar	.99	**
Vanadium, Total	ug/L	MW-37A	18	19	37			20.0000	20.0000			20.0000	nonpar	.99	**
Zinc, Total	ug/L	MW-37A	18	19	37			50.0000	50.0000			24.0000	nonpar	.99	**
Antimony, Total	ug/L	MW-38A	27	10	37			6.0000	6.0000			6.0000	nonpar	.99	**
Arsenic, Total	ug/L	MW-38A	27	10	37			10.0000	10.0000			10.0000	nonpar	.99	**
Barium, Total	ug/L	MW-38A	27	10	37	213.2222	18.3436	216.0000	216.0000	313.3427	302.3628	332.4555	normal		
Beryllium, Total	ug/L	MW-38A	27	10	37			4.0000	4.0000			4.0000	nonpar	.99	**
Cadmium, Total	ug/L	MW-38A	27	10	37			5.0000	5.0000			5.0000	nonpar	.99	**
Chromium, Total	ug/L	MW-38A	27	10	37			10.0000	10.0000			10.0000	nonpar	.99	**
Cobalt, Total	ug/L	MW-38A	27	11	38			2.0000	2.0000			10.0000	nonpar	.99	**
Copper, Total	ug/L	MW-38A	27	10	37			10.0000	10.0000			10.0000	nonpar	.99	**
Lead, Total	ug/L	MW-38A	27	10	37			10.0000	10.0000			10.0000	nonpar	.99	**
Nickel, Total	ug/L	MW-38A	27	10	37	23.2074	7.5466	31.6000	31.7000	43.5014	46.3341	72.2601	normal		
Selenium, Total	ug/L	MW-38A	27	10	37			10.0000	10.0000			10.0000	nonpar	.99	**
Silver, Total	ug/L	MW-38A	27	10	37			10.0000	10.0000			10.0000	nonpar	.99	**
Thallium, Total	ug/L	MW-38A	27	10	37			2.0000	2.0000			2.0000	nonpar	.99	**
Vanadium, Total	ug/L	MW-38A	27	10	37			20.0000	20.0000			20.0000	nonpar	.99	**
Zinc, Total	ug/L	MW-38A	27	10	37			50.0000	50.0000			20.0000	nonpar	.99	**
Antimony, Total	ug/L	MW-39A	20	10	30			6.0000	6.0000			6.0000	nonpar	.99	**
Arsenic, Total	ug/L	MW-39A	20	10	30			10.0000	10.0000			10.0000	nonpar	.99	**
Barium, Total	ug/L	MW-39A	20	10	30	290.1000	61.5603	253.0000	275.0000	290.1000	290.1000	690.2421	normal		
Beryllium, Total	ug/L	MW-39A	20	10	30			4.0000	4.0000			4.0000	nonpar	.99	**
Cadmium, Total	ug/L	MW-39A	20	10	30			5.0000	5.0000			5.0000	nonpar	.99	**
Chromium, Total	ug/L	MW-39A	19	10	30			10.0000	10.0000			10.0000	nonpar	.99	**
Cobalt, Total	ug/L	MW-39A	20	10	30			2.0000	2.0000			2.8000	nonpar	.99	**
Copper, Total	ug/L	MW-39A	19	10	30			10.0000	10.0000			10.0000	nonpar	.99	**
Lead, Total	ug/L	MW-39A	19	10	30			10.0000	10.0000			10.0000	nonpar	.99	**
Nickel, Total	ug/L	MW-39A	19	10	30			10.0000	10.0000			10.0000	nonpar	.99	**
Selenium, Total	ug/L	MW-39A	20	10	30			10.0000	10.0000			10.0000	nonpar	.99	**
Silver, Total	ug/L	MW-39A	20	10	30			10.0000	10.0000			10.0000	nonpar	.99	**
Thallium, Total	ug/L	MW-39A	20	10	30			2.0000	2.0000			2.0000	nonpar	.99	**
Vanadium, Total	ug/L	MW-39A	19	10	30			20.0000	20.0000			20.0000	nonpar	.99	**
Zinc, Total	ug/L	MW-39A	19	10	30			50.0000	50.0000			20.0000	nonpar	.99	**
Antimony, Total	ug/L	MW-40A	16	10	26			6.0000	6.0000			6.0000	nonpar	.99	**
Arsenic, Total	ug/L	MW-40A	16	11	27			10.0000	10.0000			10.0000	nonpar	.99	**
Barium, Total	ug/L	MW-40A	16	10	26	273.3125	41.3549	272.0000	221.0000	273.3125	273.3125	542.1195	normal		
Beryllium, Total	ug/L	MW-40A	16	10	26			4.0000	4.0000			4.0000	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.

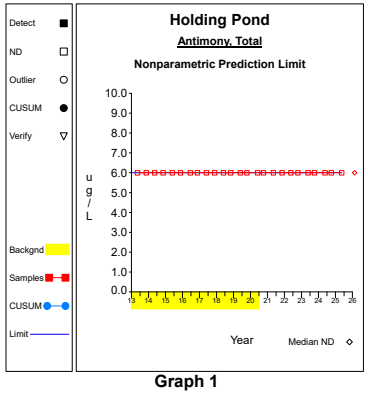
Table 1

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

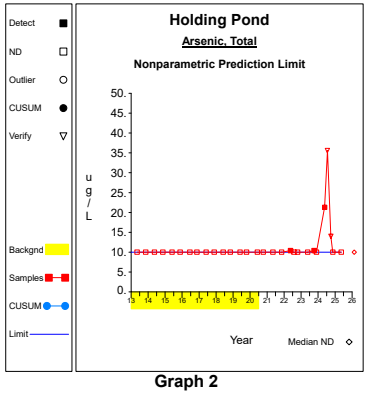
Constituent	Units	Well	N(back)	N(mon)	N(tot)	Mean	SD	R(i-1)	R(i)	S(i-1)	S(i)	Limit	Type	Conf	
Cadmium, Total	ug/L	MW-40A	16	10	26			5.0000	5.0000			5.0000	nonpar	.99	**
Chromium, Total	ug/L	MW-40A	16	10	26			10.0000	10.0000			11.0000	nonpar	.99	**
Cobalt, Total	ug/L	MW-40A	16	10	26			2.0000	2.0000			2.8000	nonpar	.99	**
Copper, Total	ug/L	MW-40A	16	10	26			10.0000	10.0000			10.0000	nonpar	.99	**
Lead, Total	ug/L	MW-40A	16	10	26			10.0000	10.0000			10.0000	nonpar	.99	**
Nickel, Total	ug/L	MW-40A	16	10	26			10.0000	10.0000			10.0000	nonpar	.99	**
Selenium, Total	ug/L	MW-40A	16	10	26			10.0000	10.0000			10.0000	nonpar	.99	**
Silver, Total	ug/L	MW-40A	16	10	26			10.0000	10.0000			10.0000	nonpar	.99	**
Thallium, Total	ug/L	MW-40A	16	10	26			2.0000	2.0000			2.0000	nonpar	.99	**
Vanadium, Total	ug/L	MW-40A	16	10	26			20.0000	20.0000			20.0000	nonpar	.99	**
Zinc, Total	ug/L	MW-40A	16	10	26			50.0000	50.0000			27.0000	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.

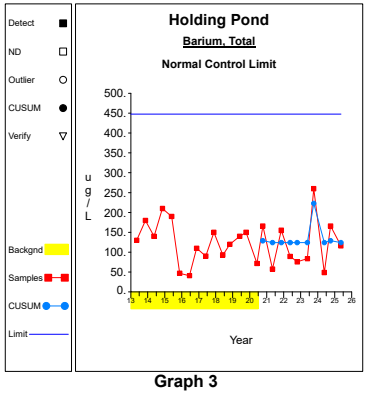
Intra-Well Control Charts / Prediction Limits



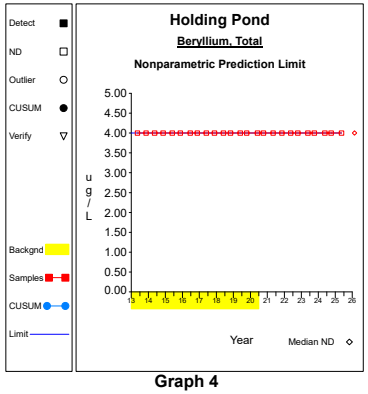
Graph 1



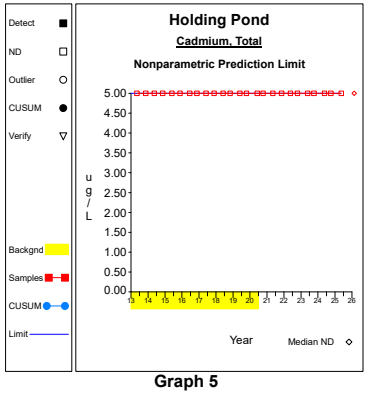
Graph 2



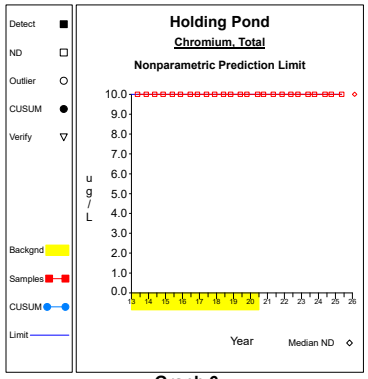
Graph 3



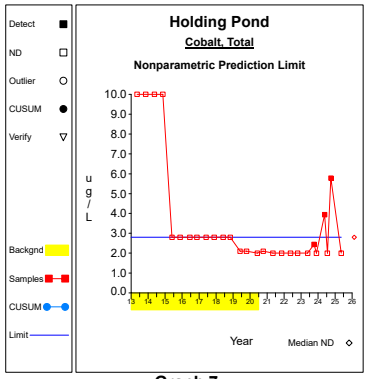
Graph 4



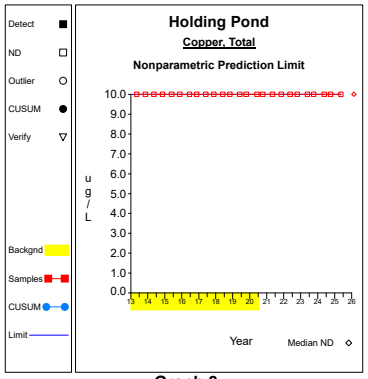
Graph 5



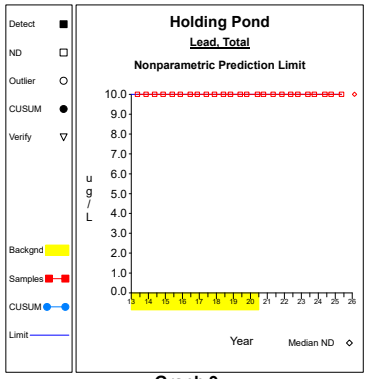
Graph 6



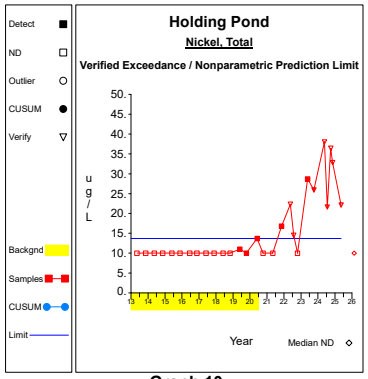
Graph 7



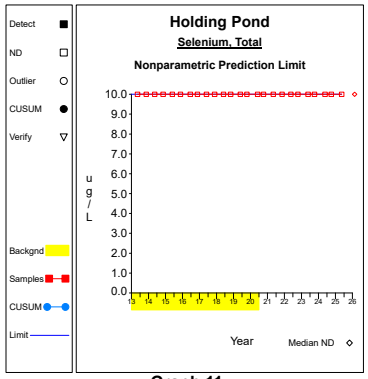
Graph 8



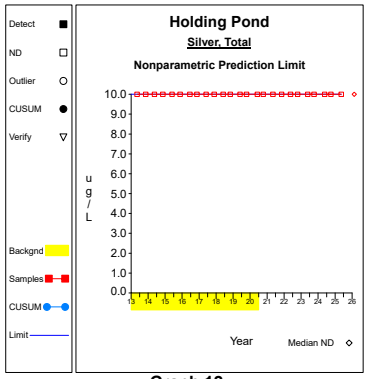
Graph 9



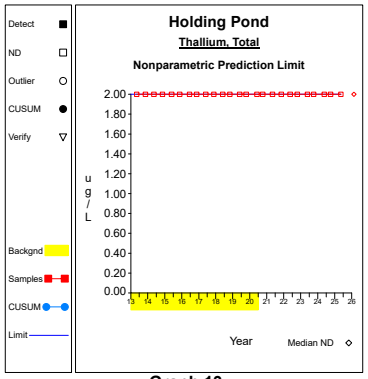
Graph 10



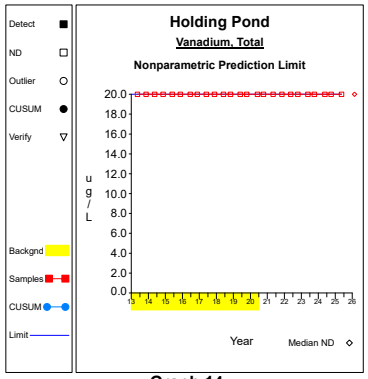
Graph 11



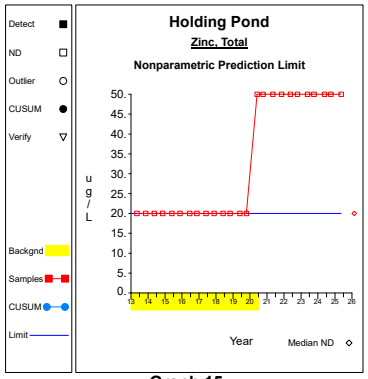
Graph 12



Graph 13



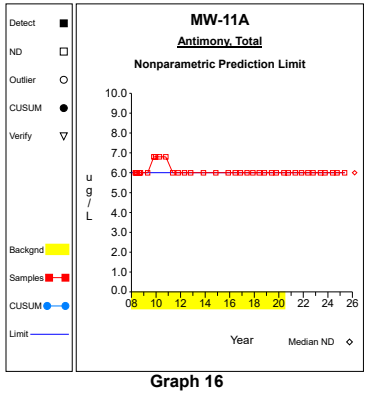
Graph 14



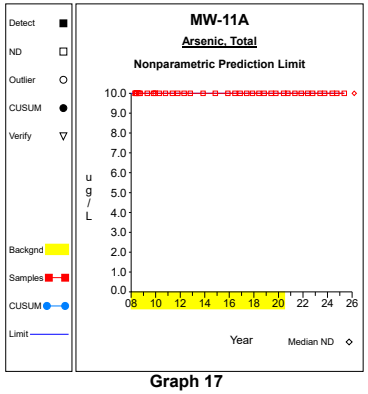
Graph 15

Prepared by: Otter Creek Environmental

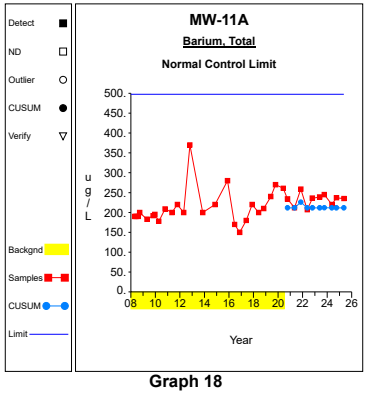
Intra-Well Control Charts / Prediction Limits



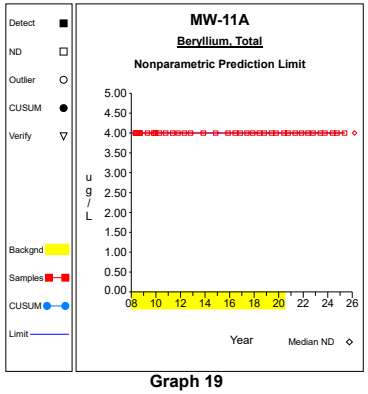
Graph 16



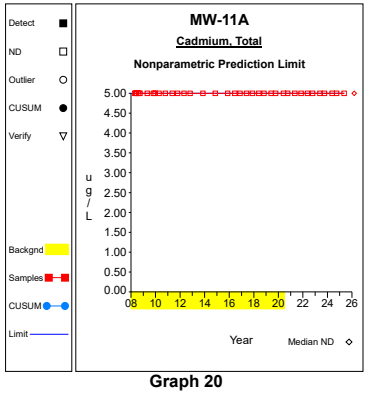
Graph 17



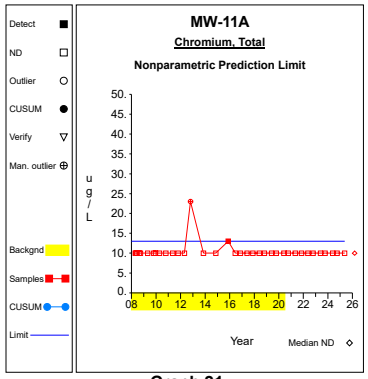
Graph 18



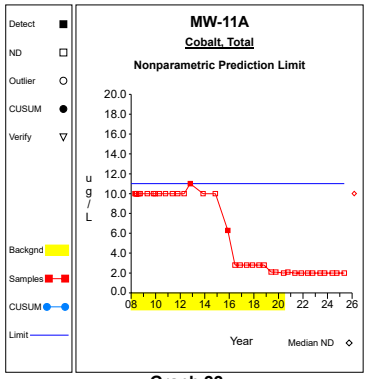
Graph 19



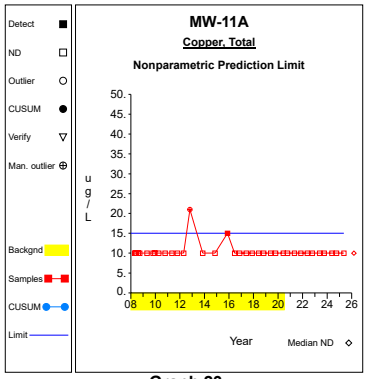
Graph 20



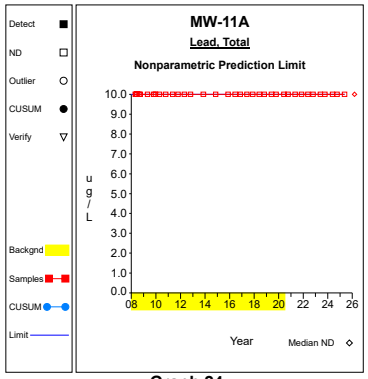
Graph 21



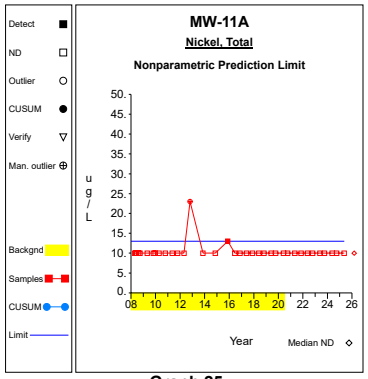
Graph 22



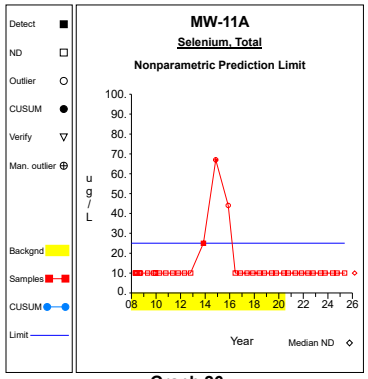
Graph 23



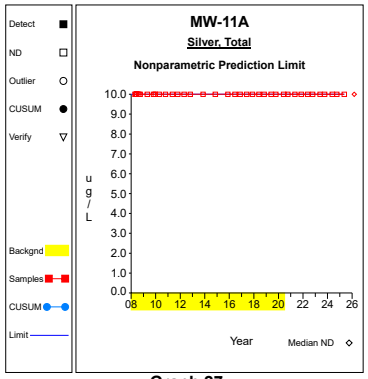
Graph 24



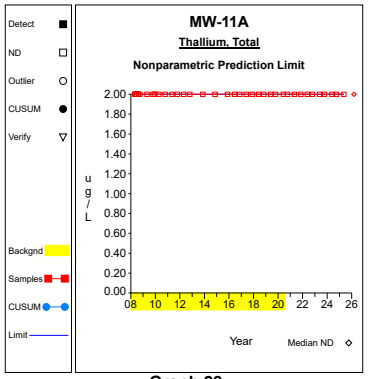
Graph 25



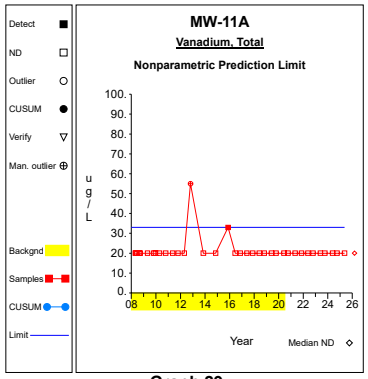
Graph 26



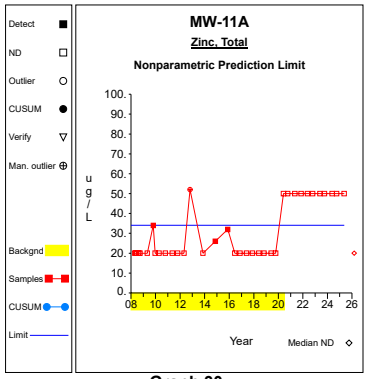
Graph 27



Graph 28



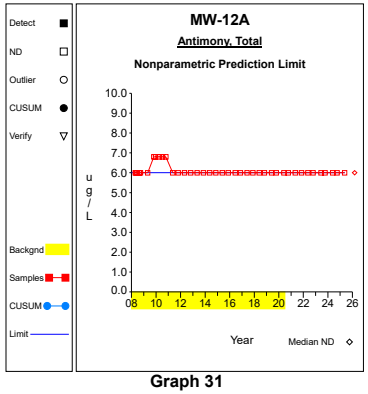
Graph 29



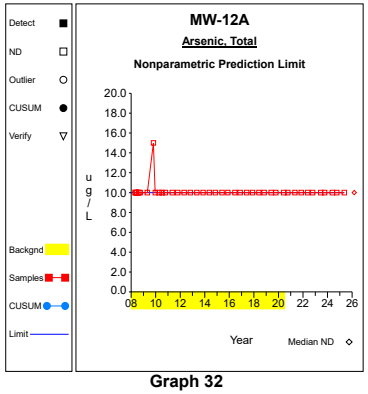
Graph 30

Prepared by: Otter Creek Environmental

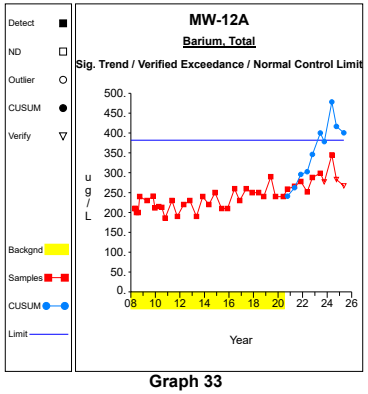
Intra-Well Control Charts / Prediction Limits



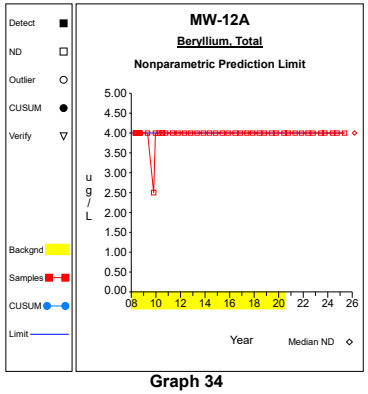
Graph 31



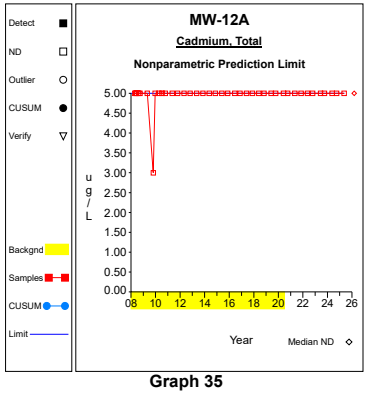
Graph 32



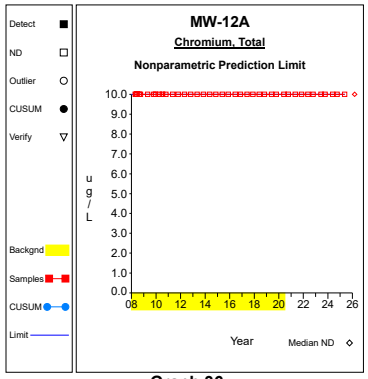
Graph 33



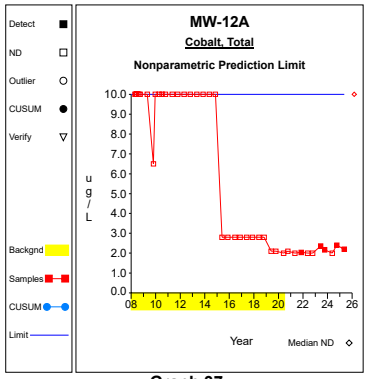
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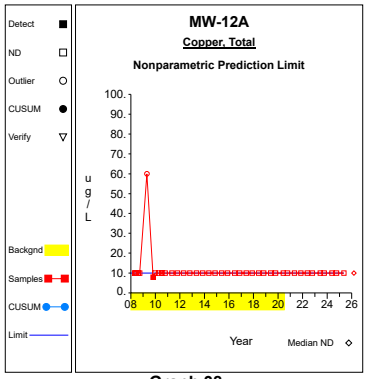
Graph 35



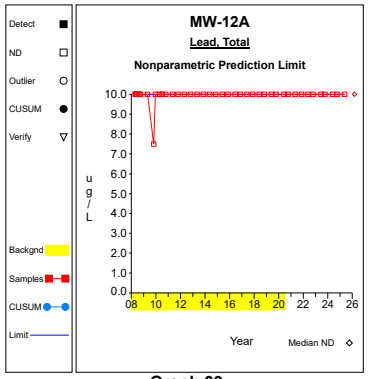
Graph 36



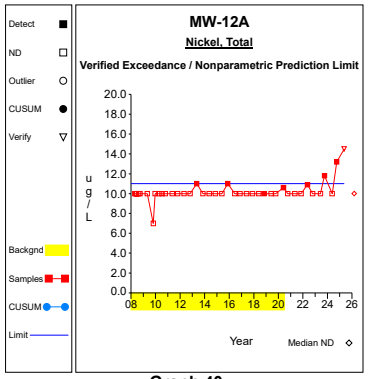
Graph 37



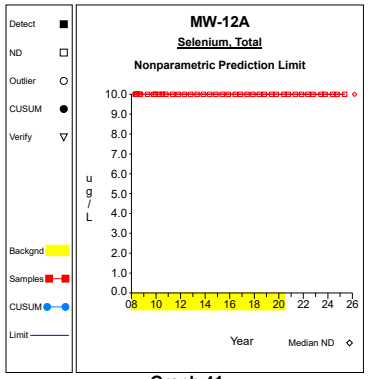
Graph 38



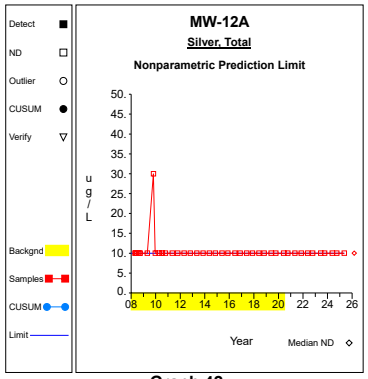
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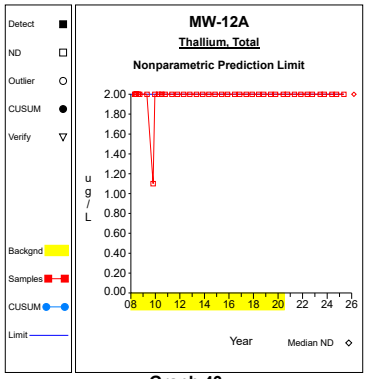
Graph 40



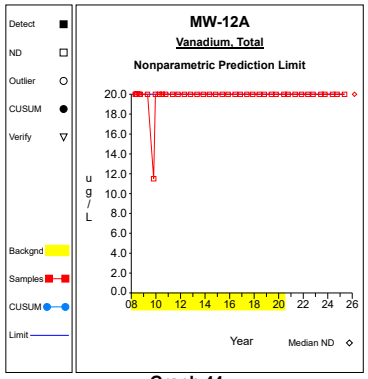
Graph 41



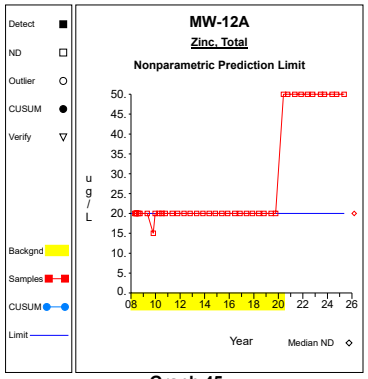
Graph 42



Graph 43

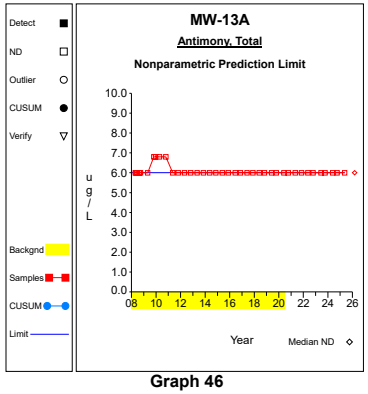


Graph 44

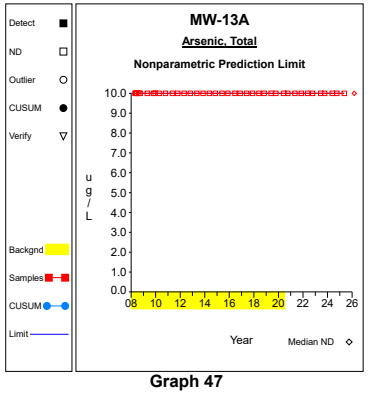


Graph 45

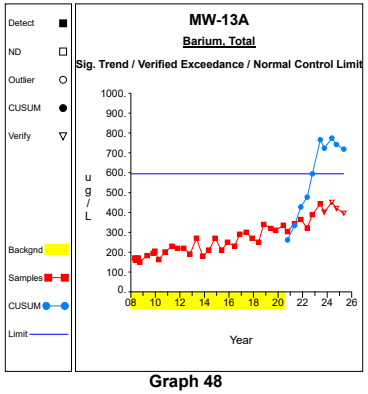
Intra-Well Control Charts / Prediction Limits



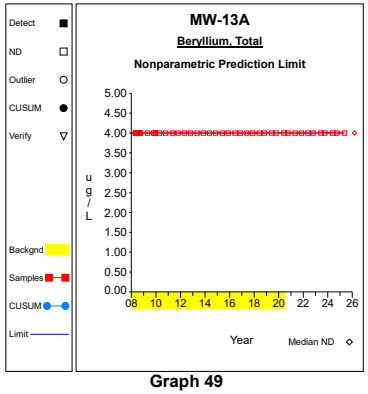
Graph 46



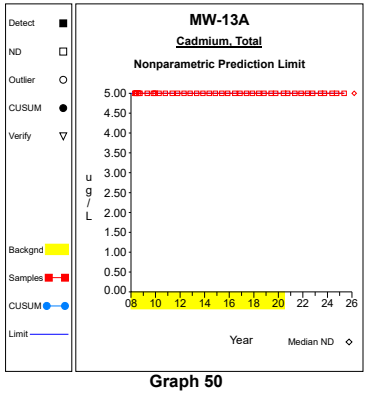
Graph 47



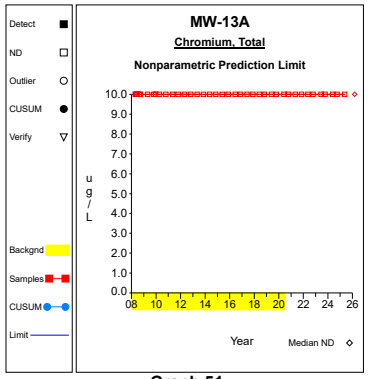
Graph 48



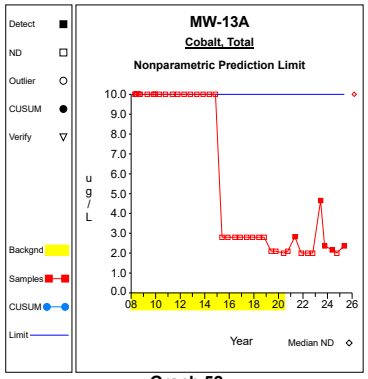
Graph 49



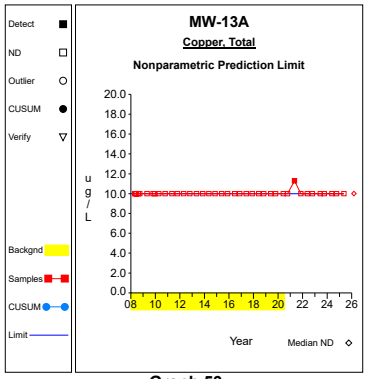
Graph 50



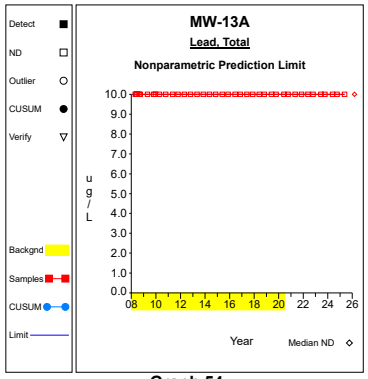
Graph 51



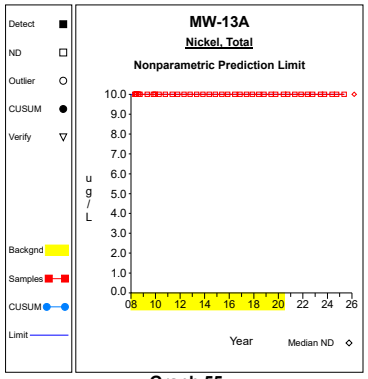
Graph 52



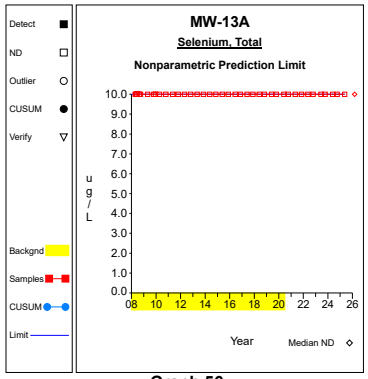
Graph 53



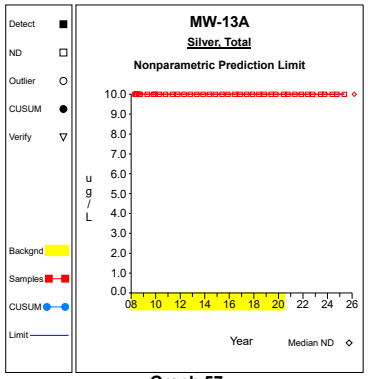
Graph 54



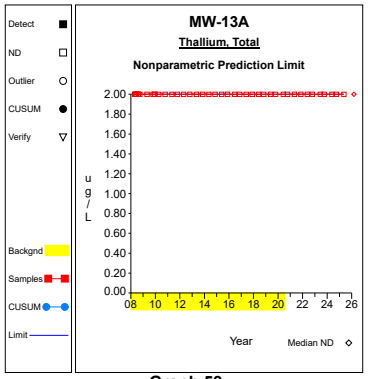
Graph 55



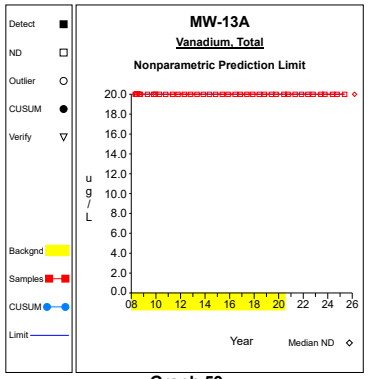
Graph 56



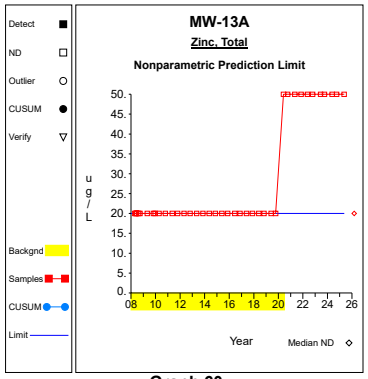
Graph 57



Graph 58

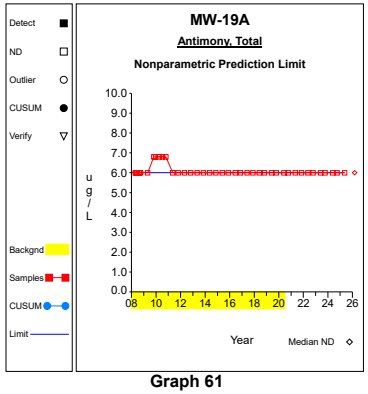


Graph 59

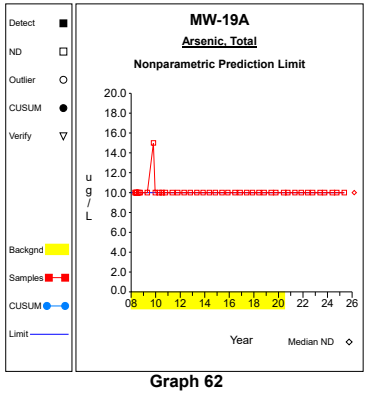


Graph 60

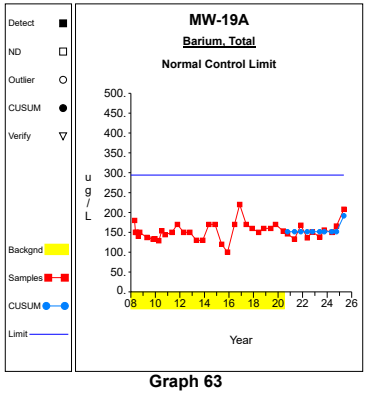
Intra-Well Control Charts / Prediction Limits



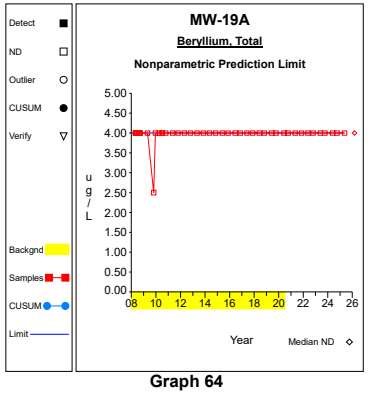
Graph 61



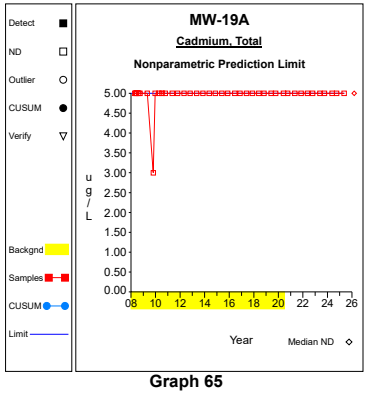
Graph 62



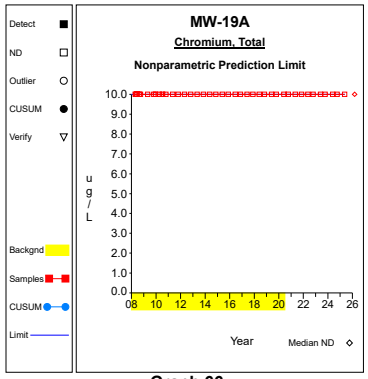
Graph 63



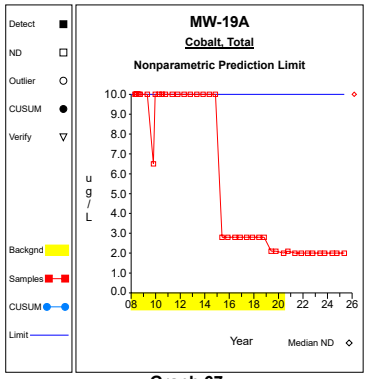
Graph 64



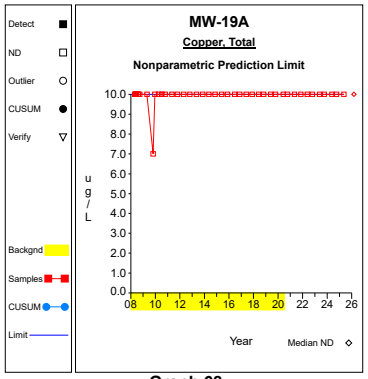
Graph 65



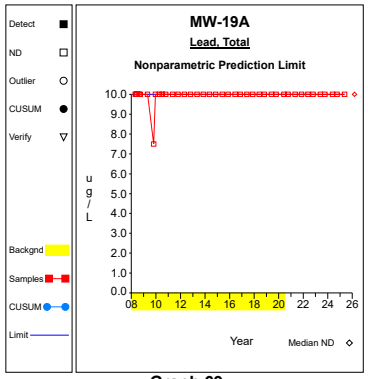
Graph 66



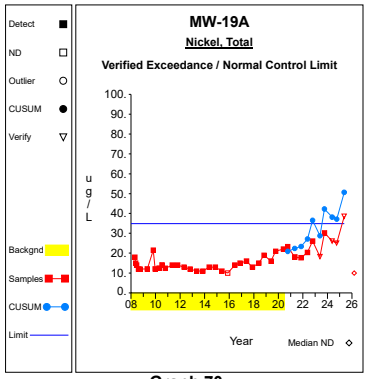
Graph 67



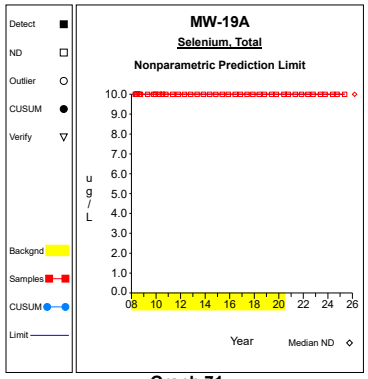
Graph 68



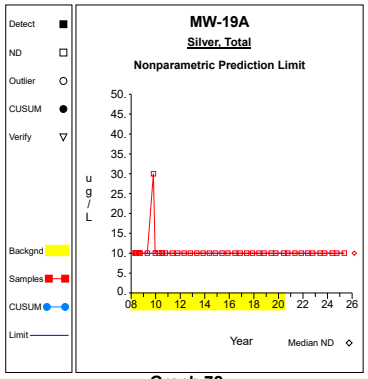
Graph 69



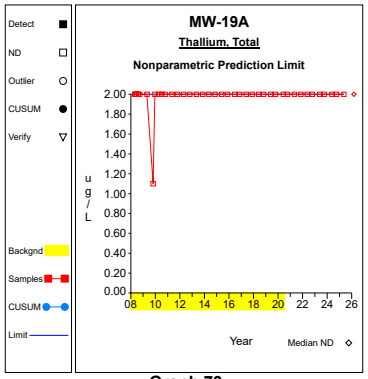
Graph 70



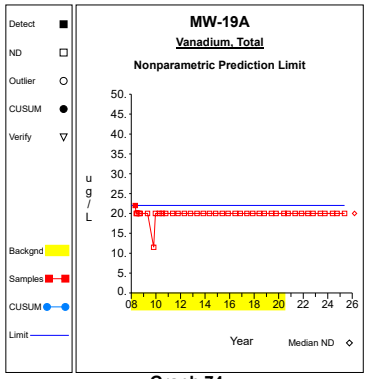
Graph 71



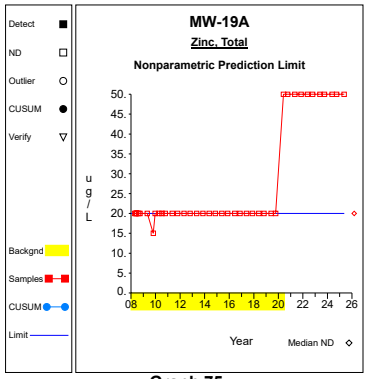
Graph 72



Graph 73

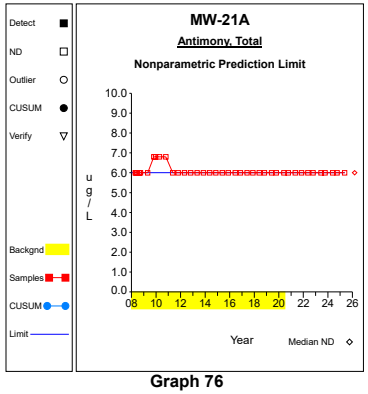


Graph 74

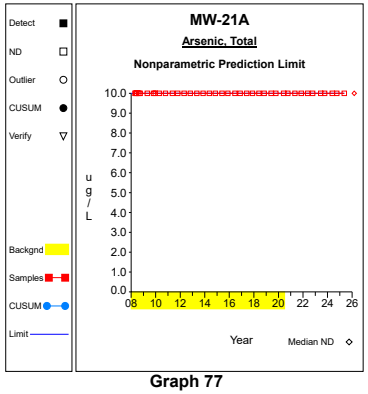


Graph 75

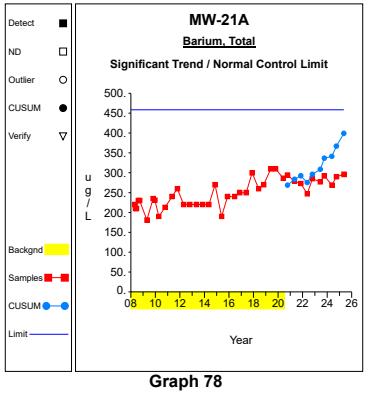
Intra-Well Control Charts / Prediction Limits



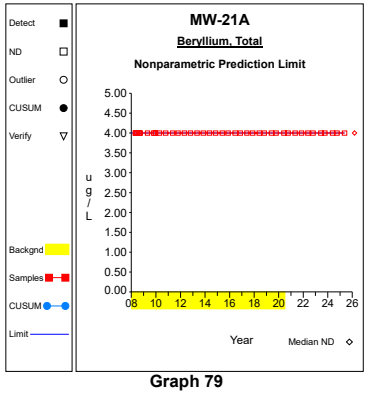
Graph 76



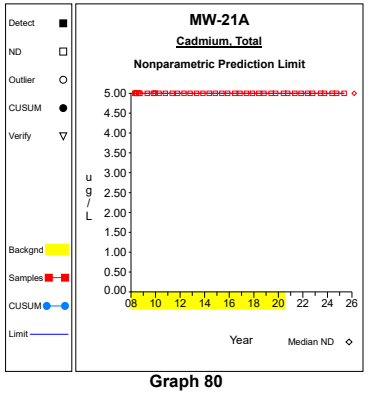
Graph 77



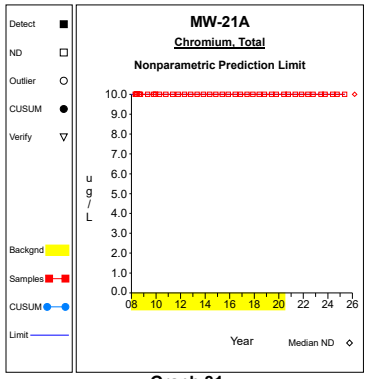
Graph 78



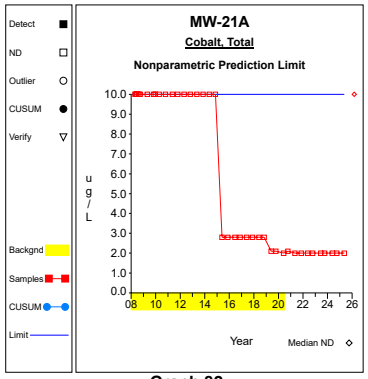
Graph 79



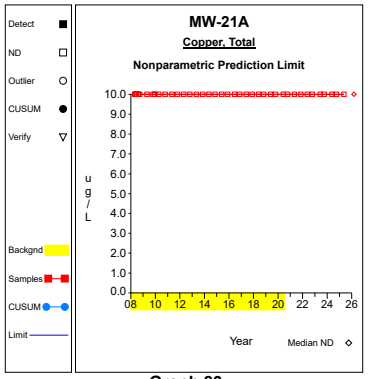
Graph 80



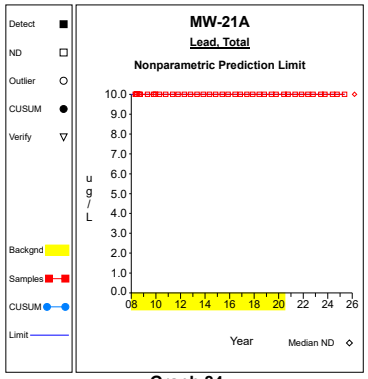
Graph 81



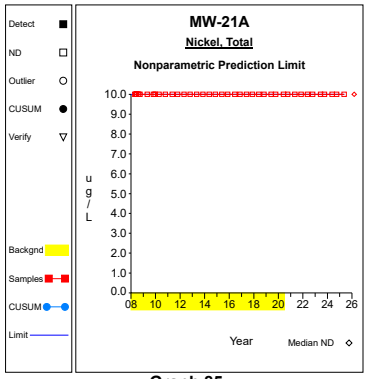
Graph 82



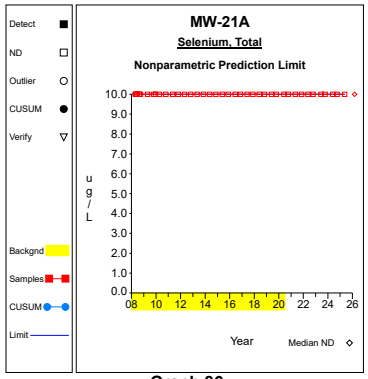
Graph 83



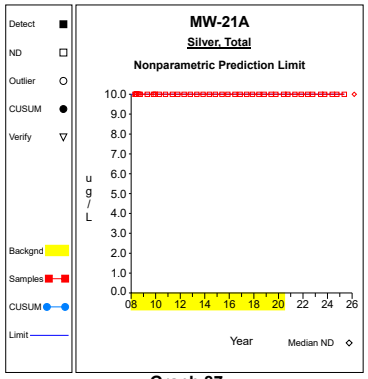
Graph 84



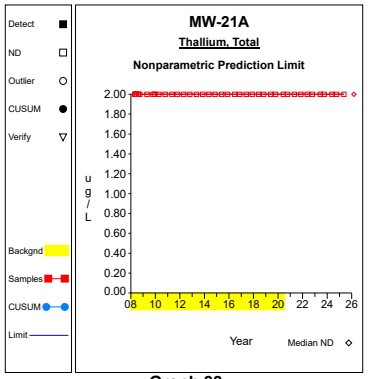
Graph 85



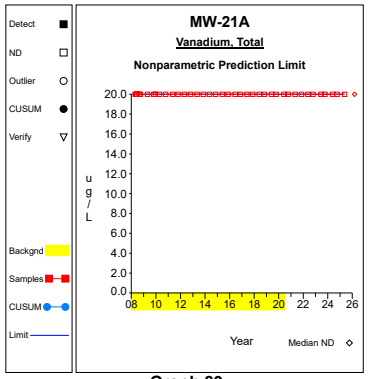
Graph 86



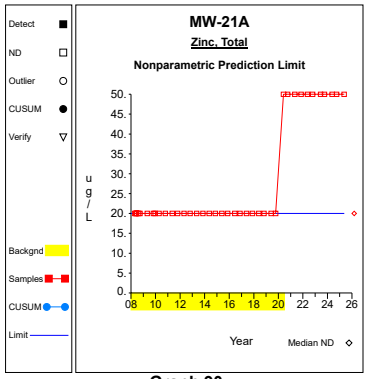
Graph 87



Graph 88

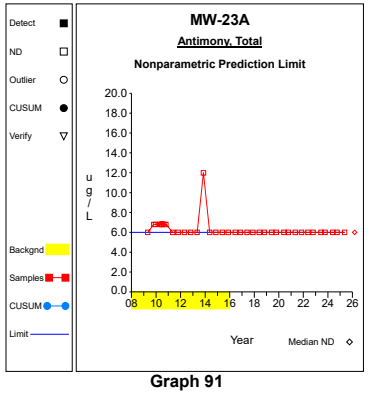


Graph 89

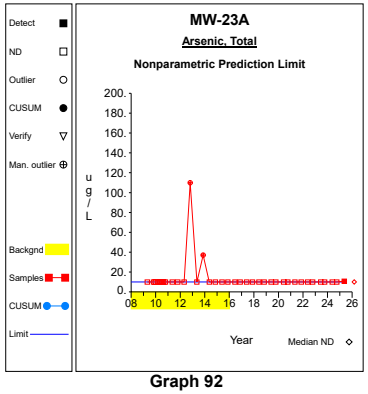


Graph 90

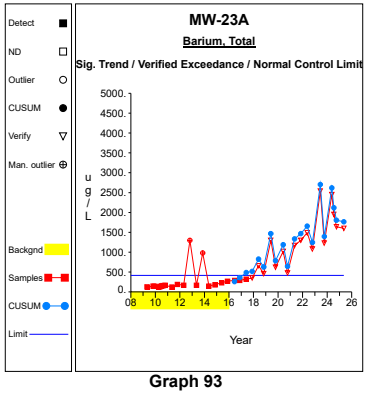
Intra-Well Control Charts / Prediction Limits



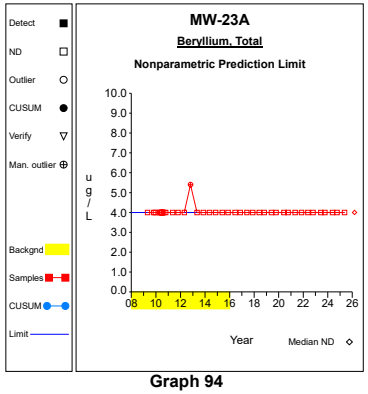
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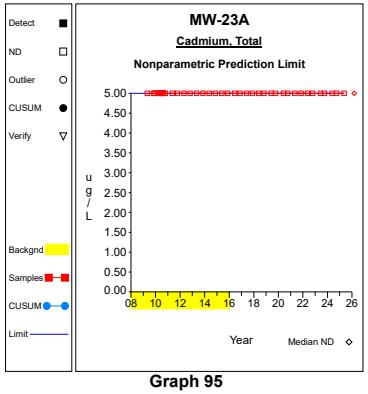
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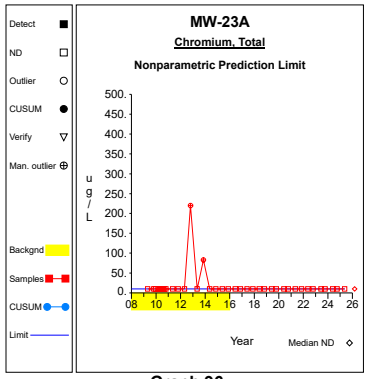
Graph 93



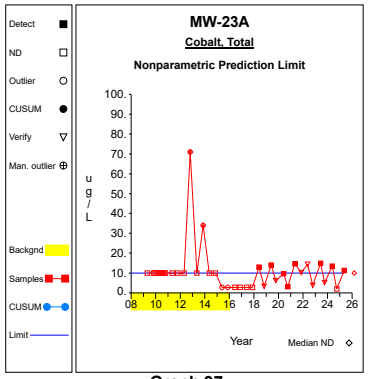
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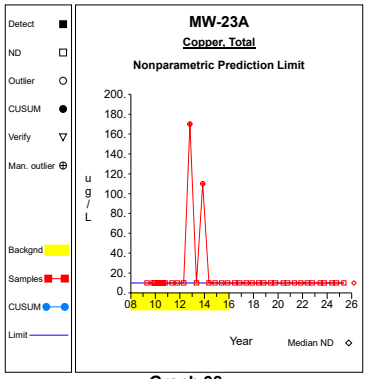
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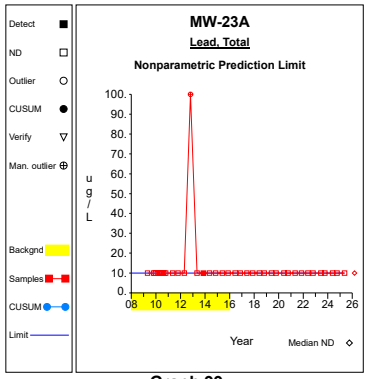
Graph 96



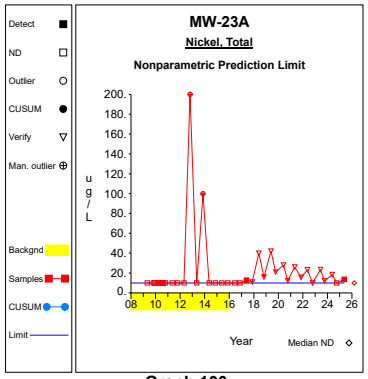
Graph 97



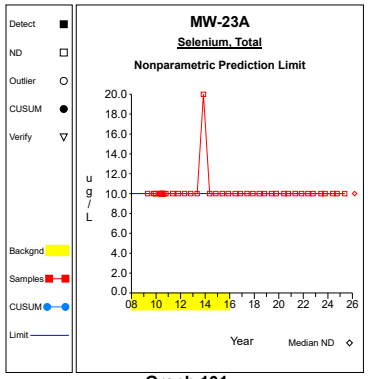
Graph 98



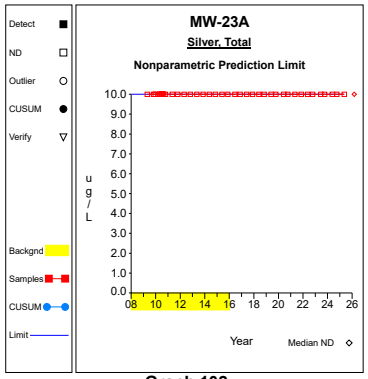
Graph 99



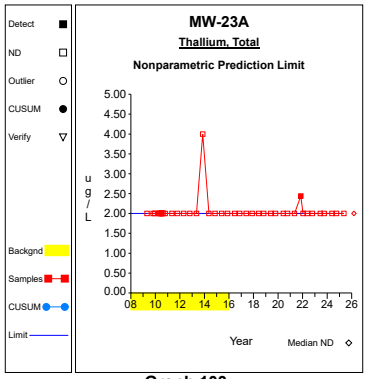
Graph 100



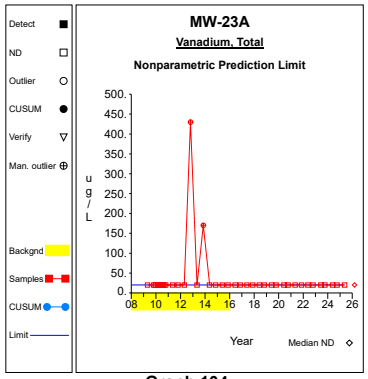
Graph 101



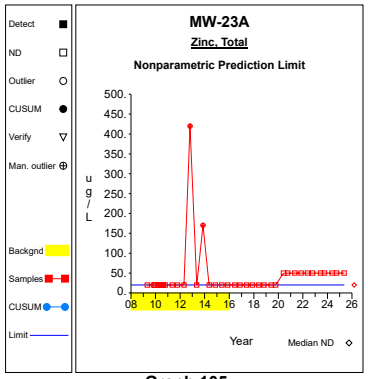
Graph 102



Graph 103



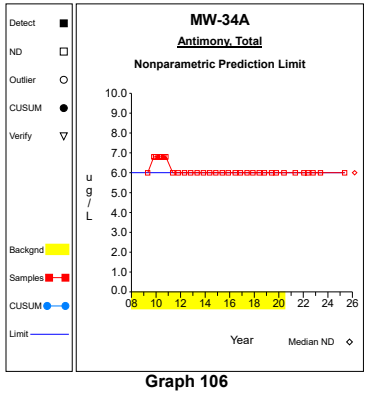
Graph 104



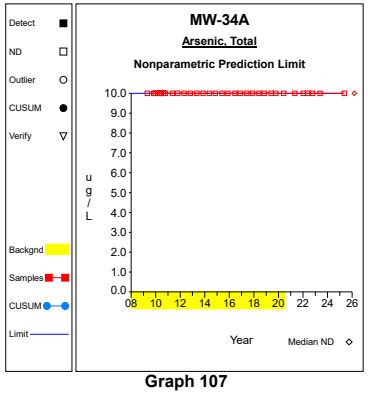
Graph 105

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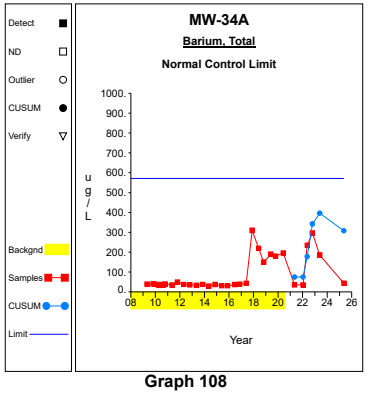
Intra-Well Control Charts / Prediction Limits



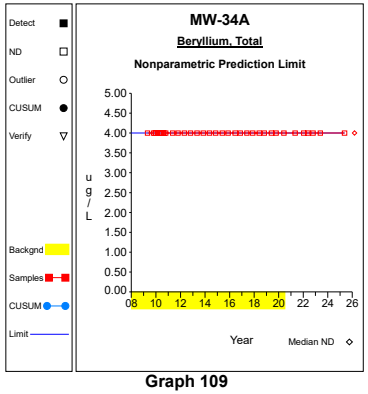
Graph 106



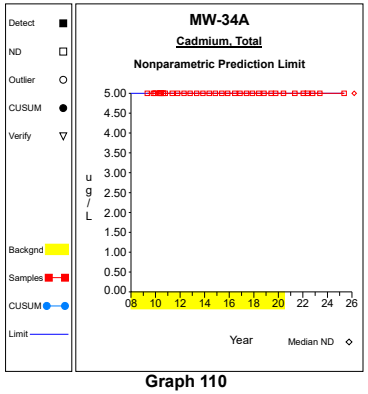
Graph 107



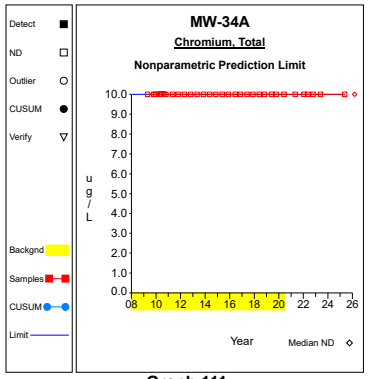
Graph 108



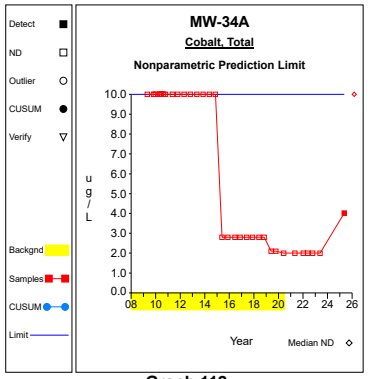
Graph 109



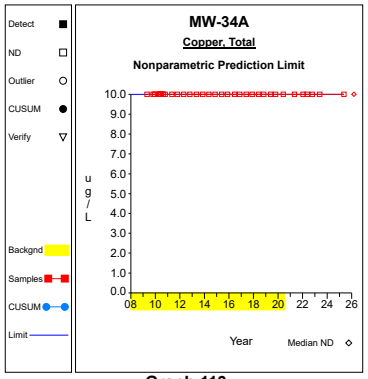
Graph 110



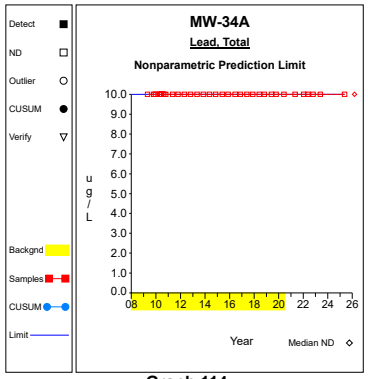
Graph 111



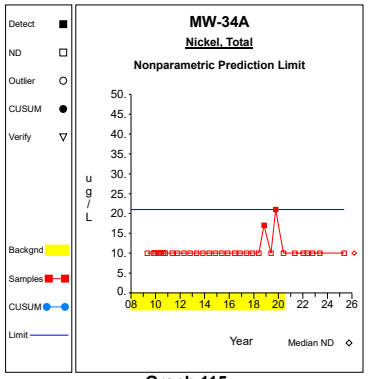
Graph 112



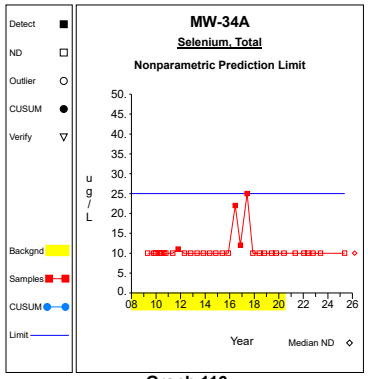
Graph 113



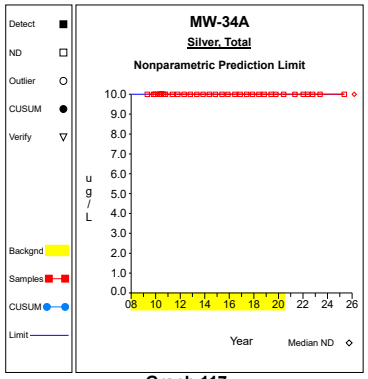
Graph 114



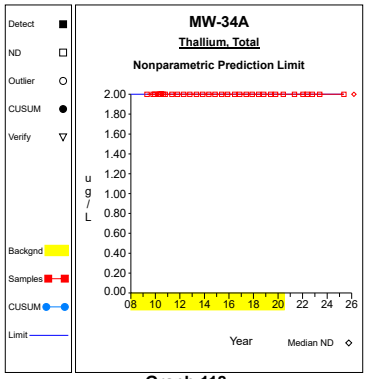
Graph 115



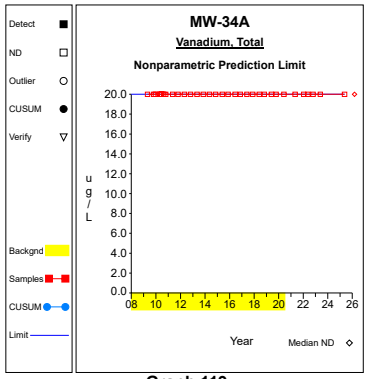
Graph 116



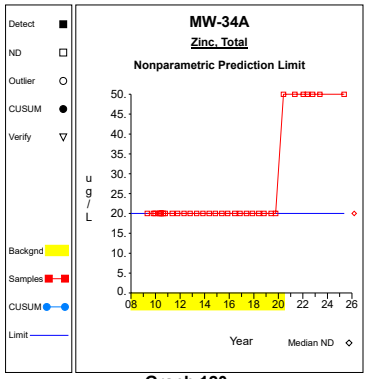
Graph 117



Graph 118



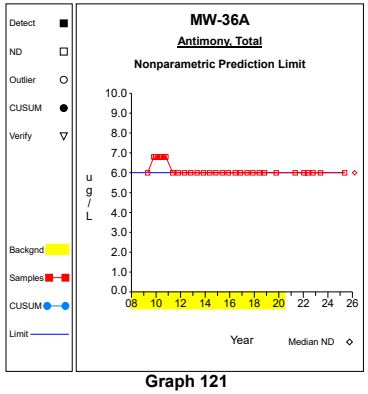
Graph 119



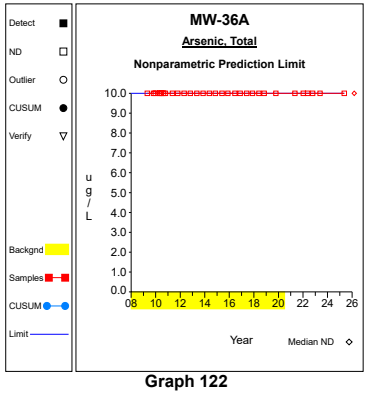
Graph 120

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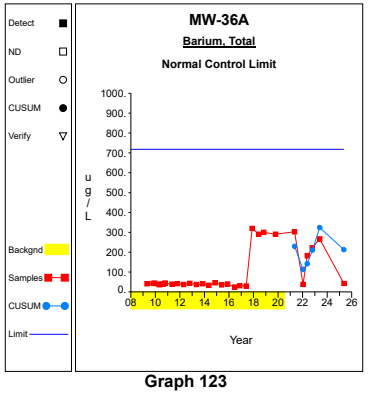
Intra-Well Control Charts / Prediction Limits



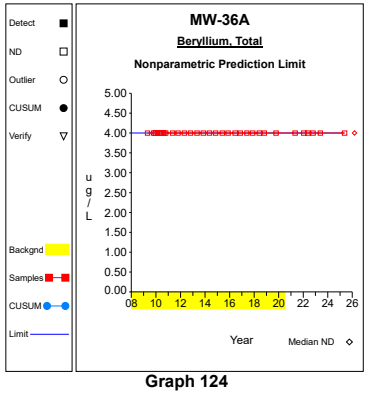
Graph 121



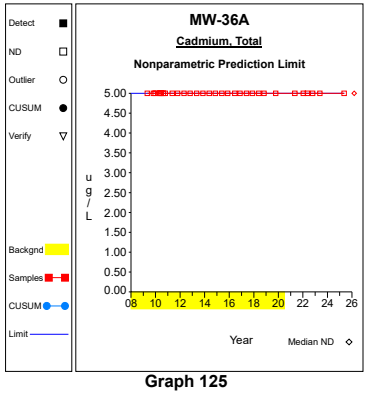
Graph 122



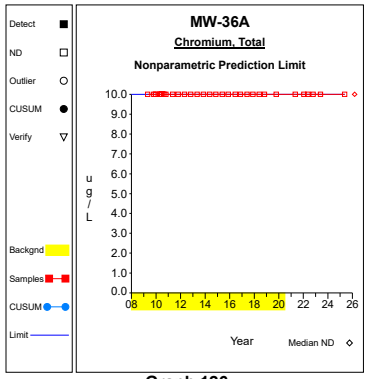
Graph 123



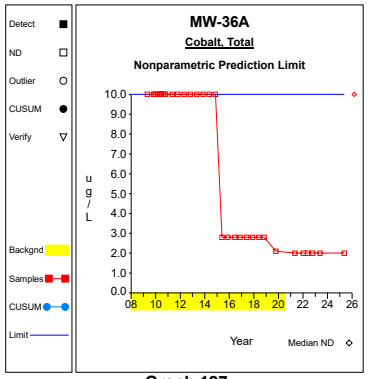
Graph 124



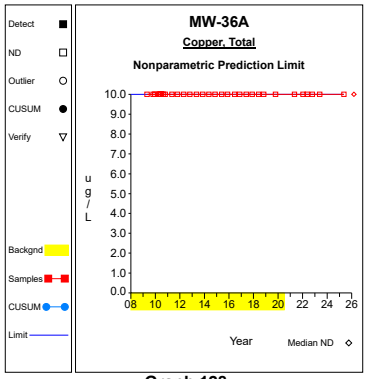
Graph 125



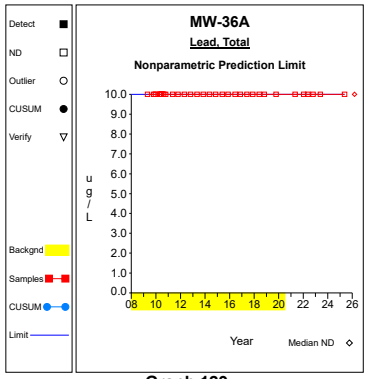
Graph 126



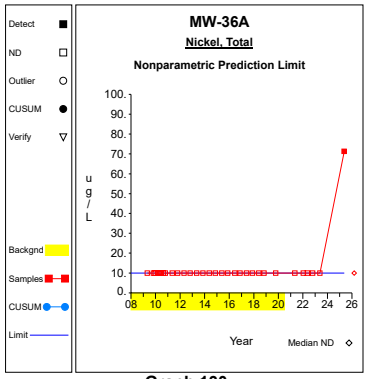
Graph 127



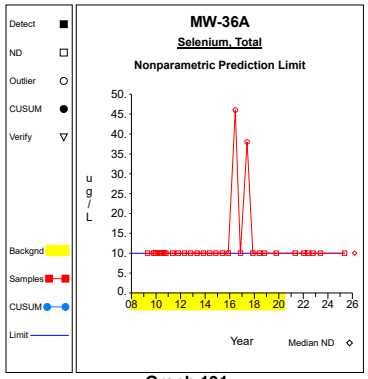
Graph 128



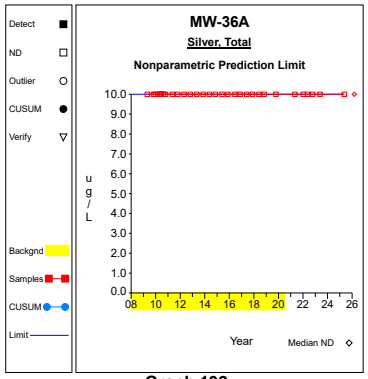
Graph 129



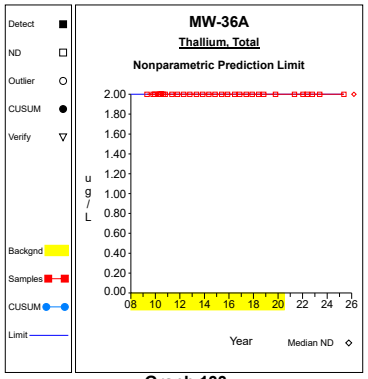
Graph 130



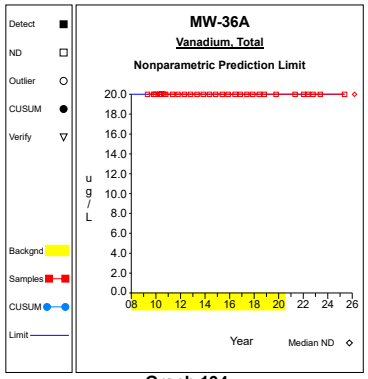
Graph 131



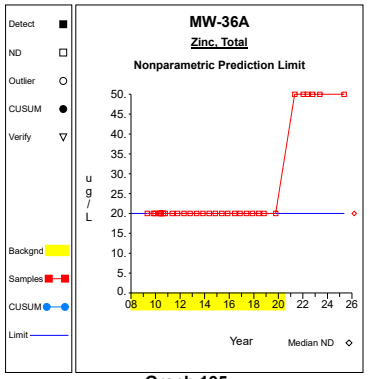
Graph 132



Graph 133

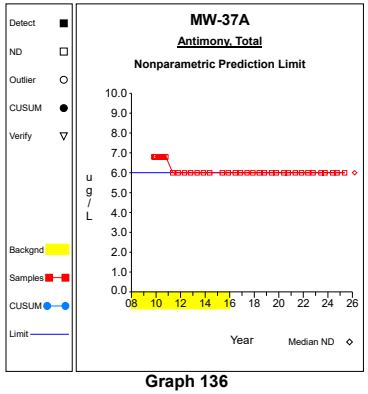


Graph 134

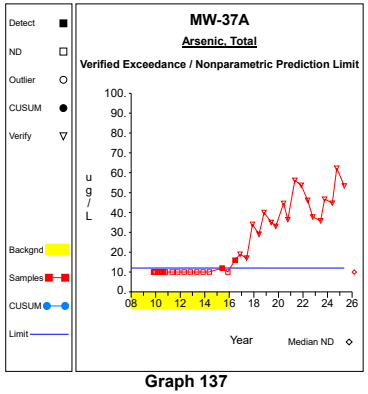


Graph 135

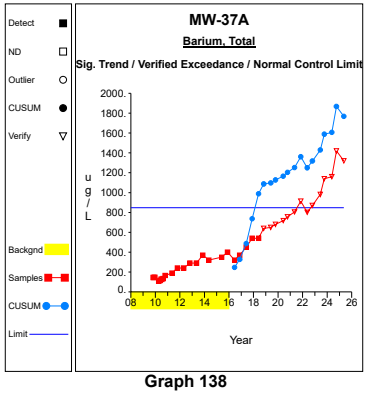
Intra-Well Control Charts / Prediction Limits



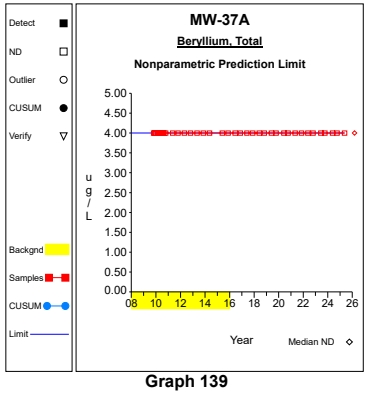
Graph 136



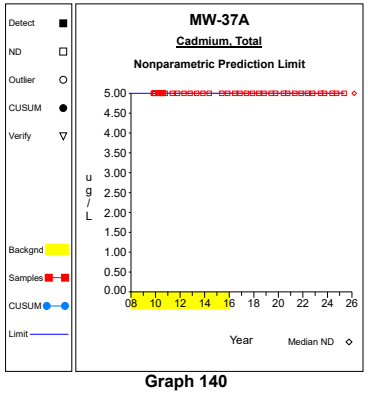
Graph 137



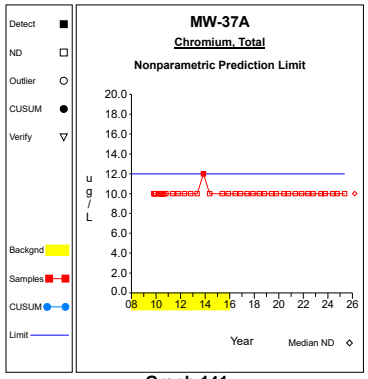
Graph 138



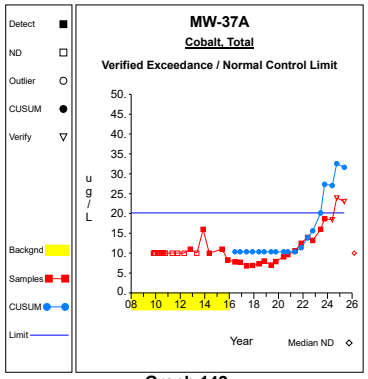
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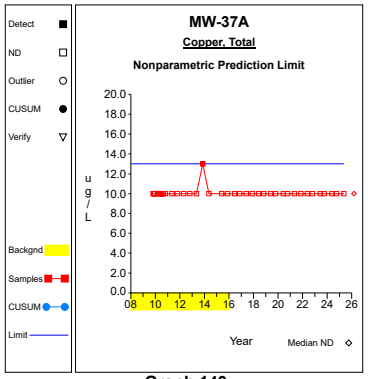
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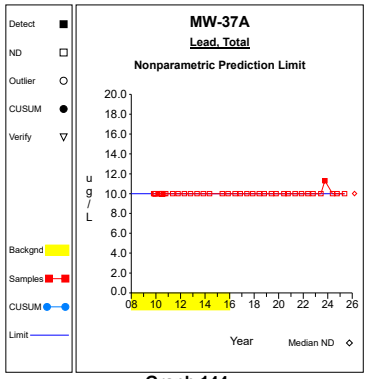
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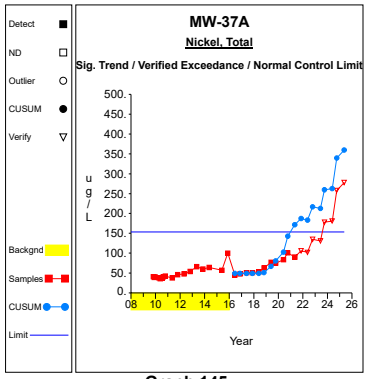
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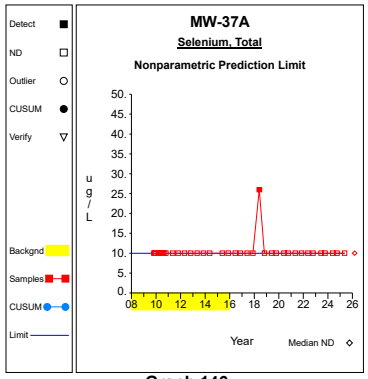
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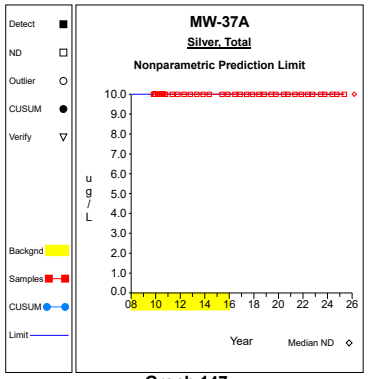
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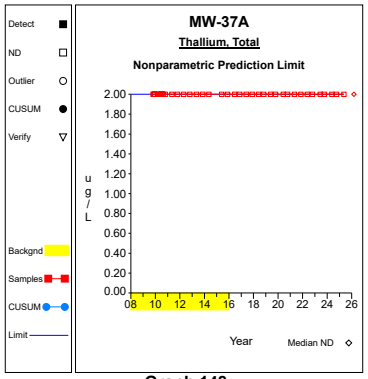
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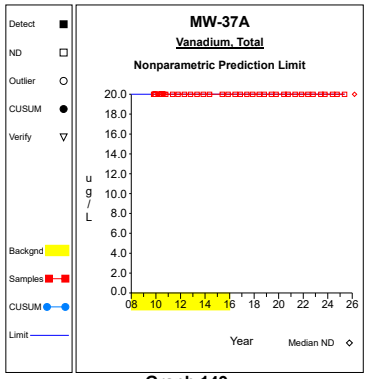
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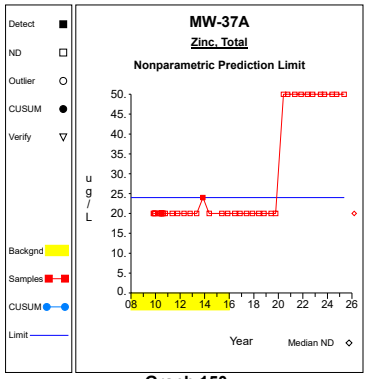
Graph 147



Graph 148

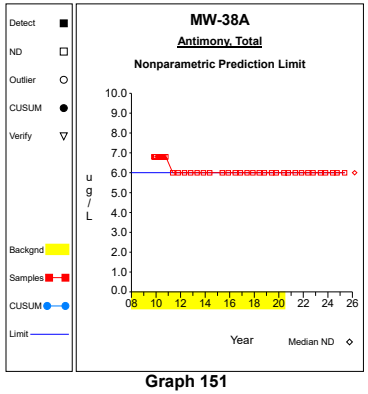


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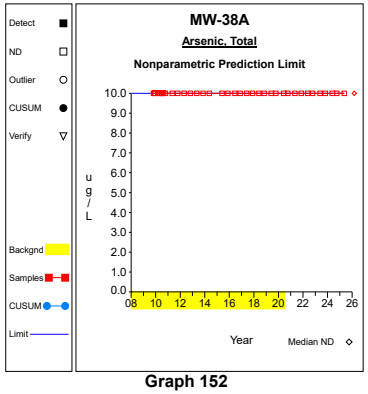


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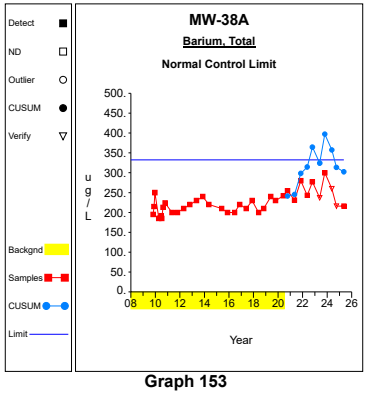
Intra-Well Control Charts / Prediction Limits



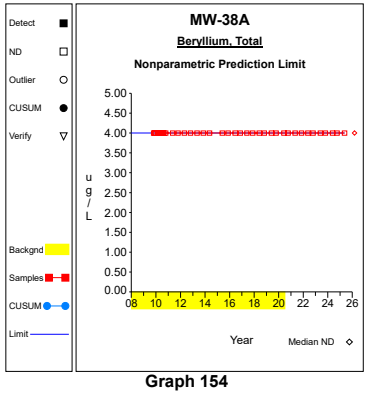
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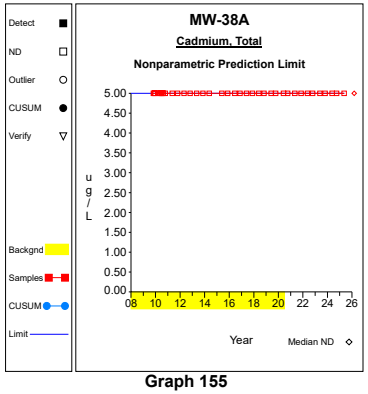
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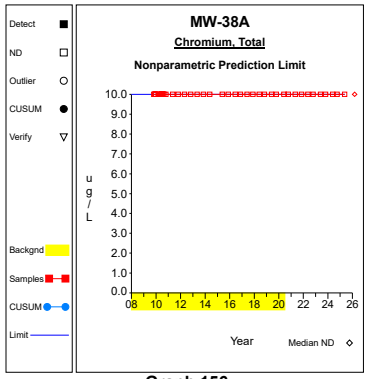
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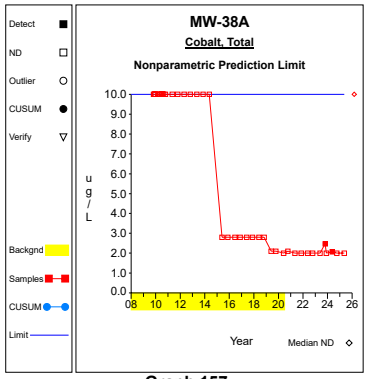
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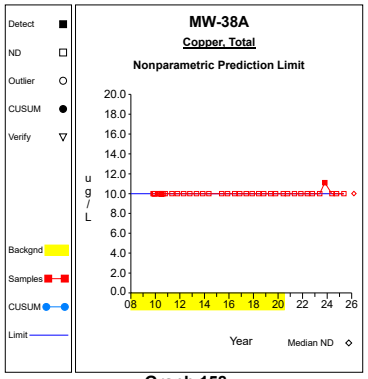
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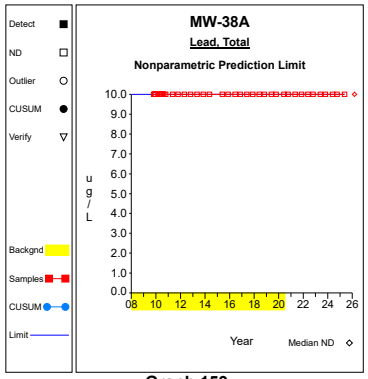
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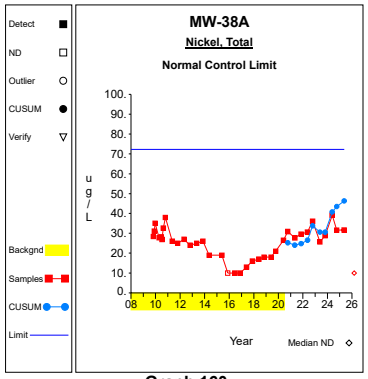
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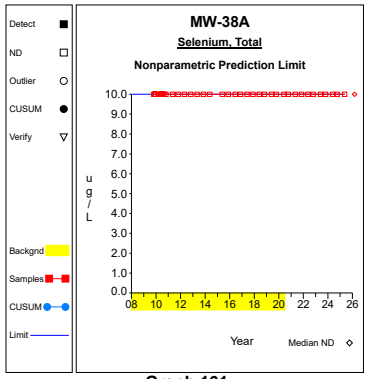
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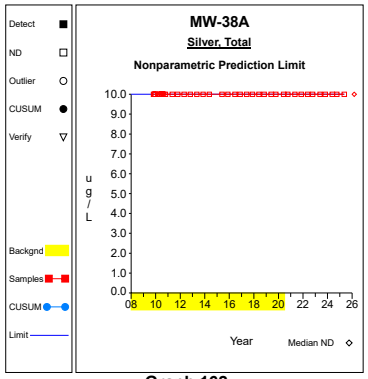
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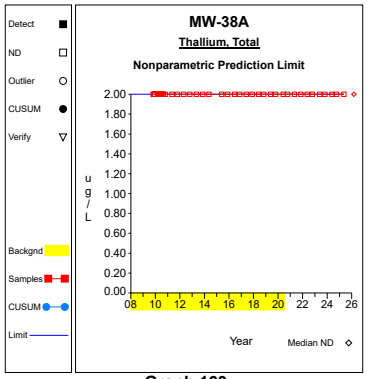
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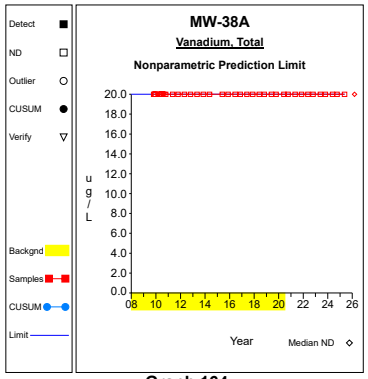
Graph 161



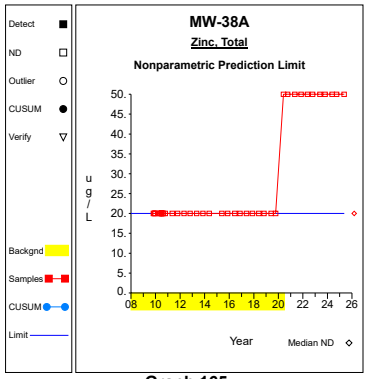
Graph 162



Graph 163



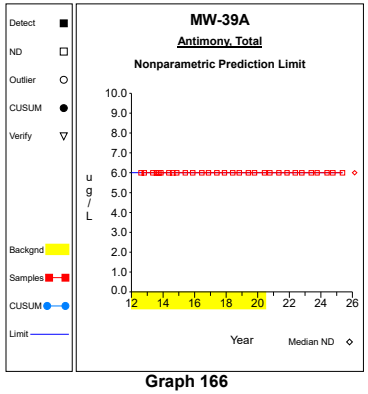
Graph 164



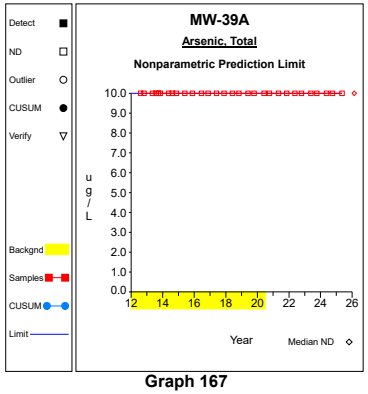
Graph 165

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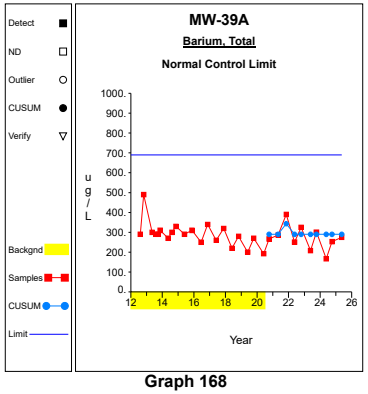
Intra-Well Control Charts / Prediction Limits



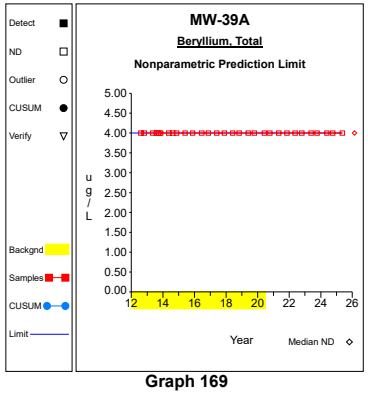
Graph 166



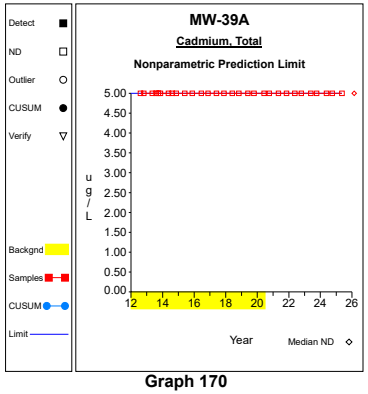
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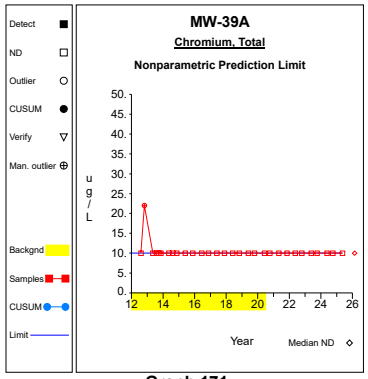
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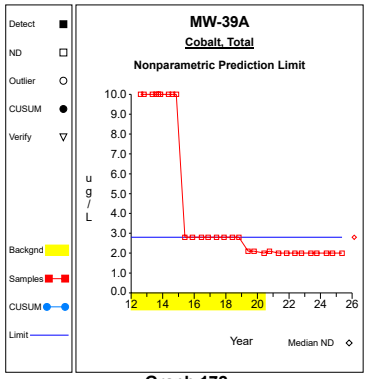
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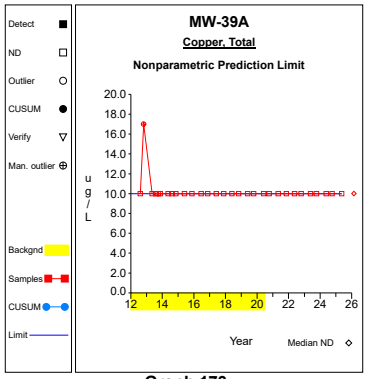
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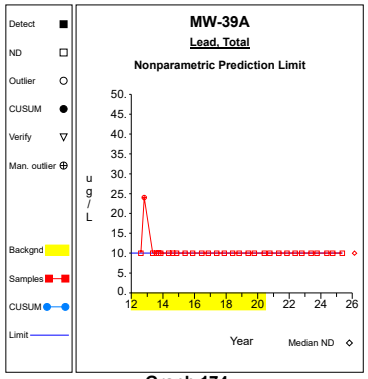
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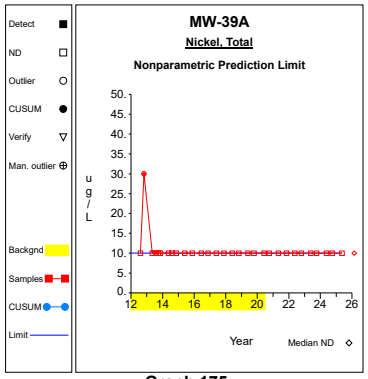
Graph 172



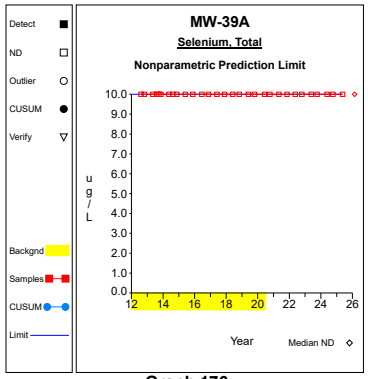
Graph 173



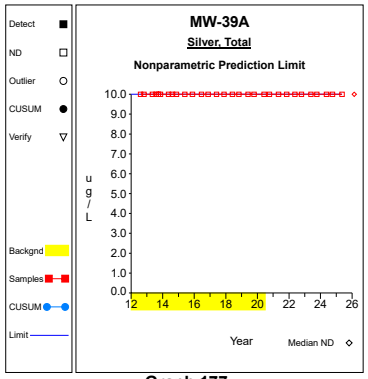
Graph 174



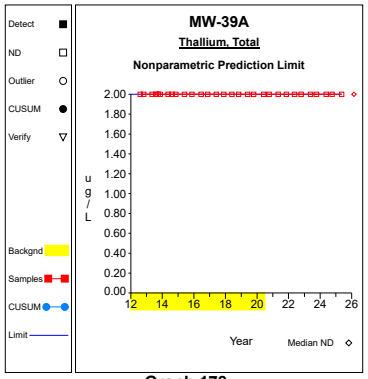
Graph 175



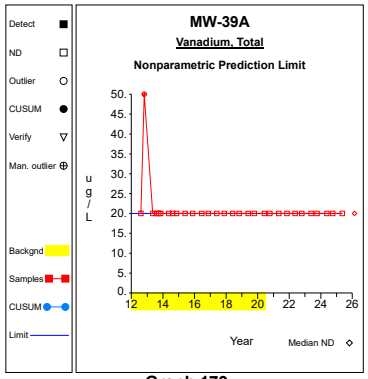
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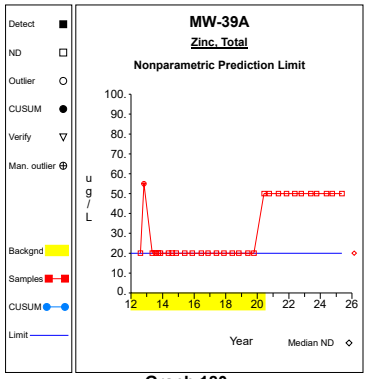
Graph 177



Graph 178



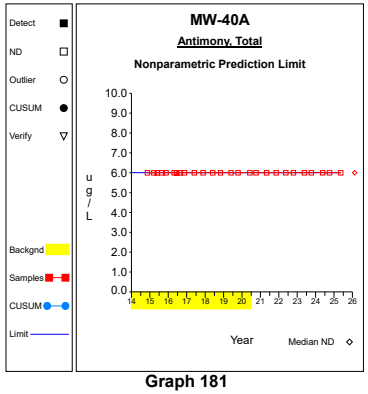
Graph 179



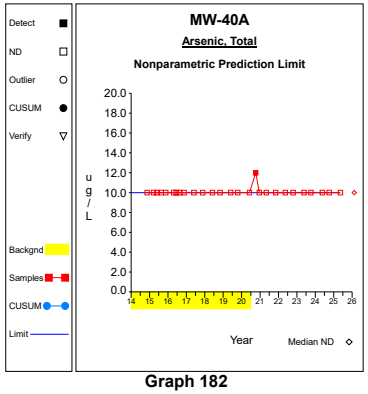
Graph 180

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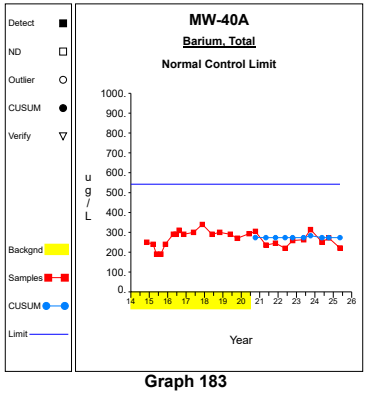
Intra-Well Control Charts / Prediction Limits



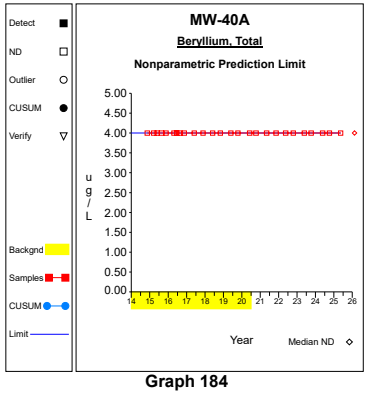
Graph 181



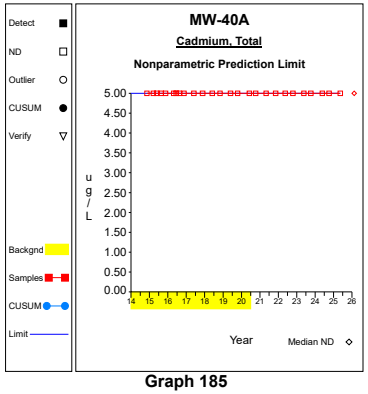
Graph 182



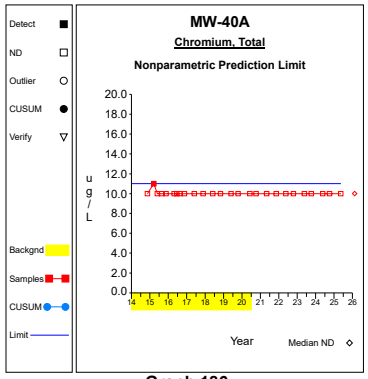
Graph 183



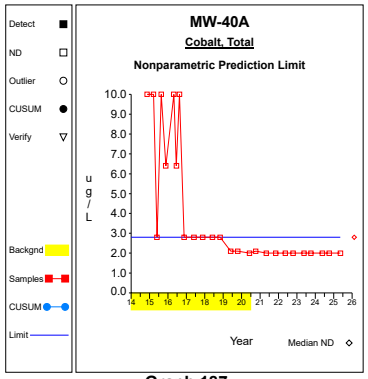
Graph 184



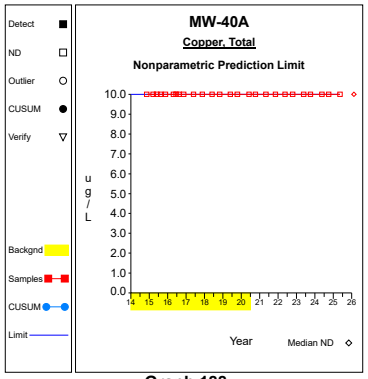
Graph 185



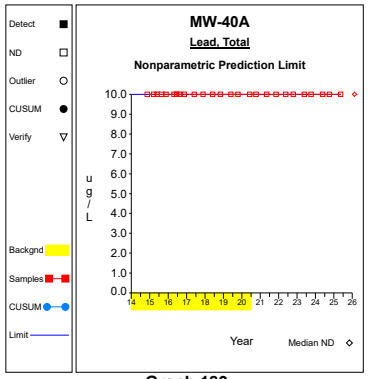
Graph 186



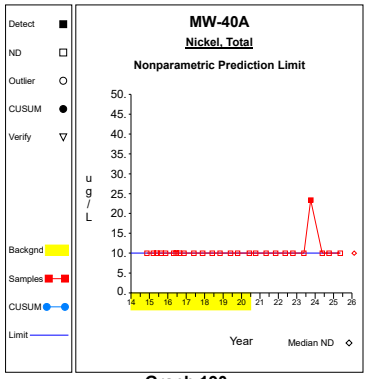
Graph 187



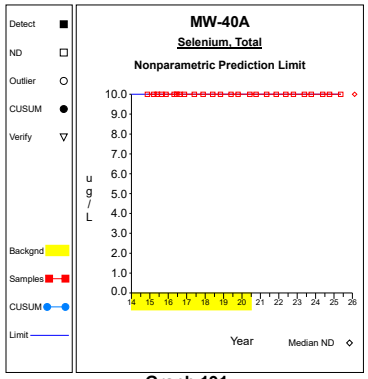
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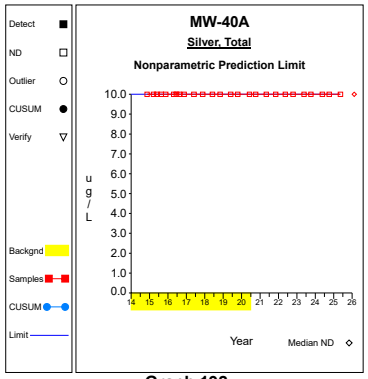
Graph 189



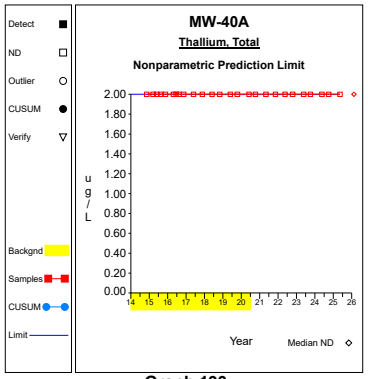
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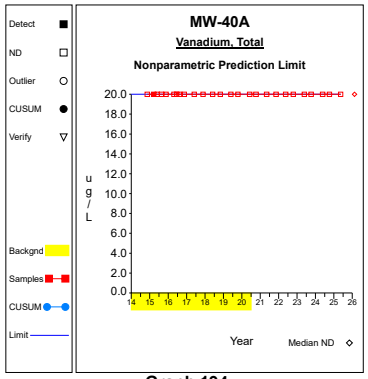
Graph 191



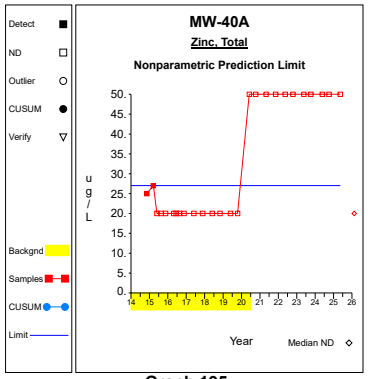
Graph 192



Graph 193

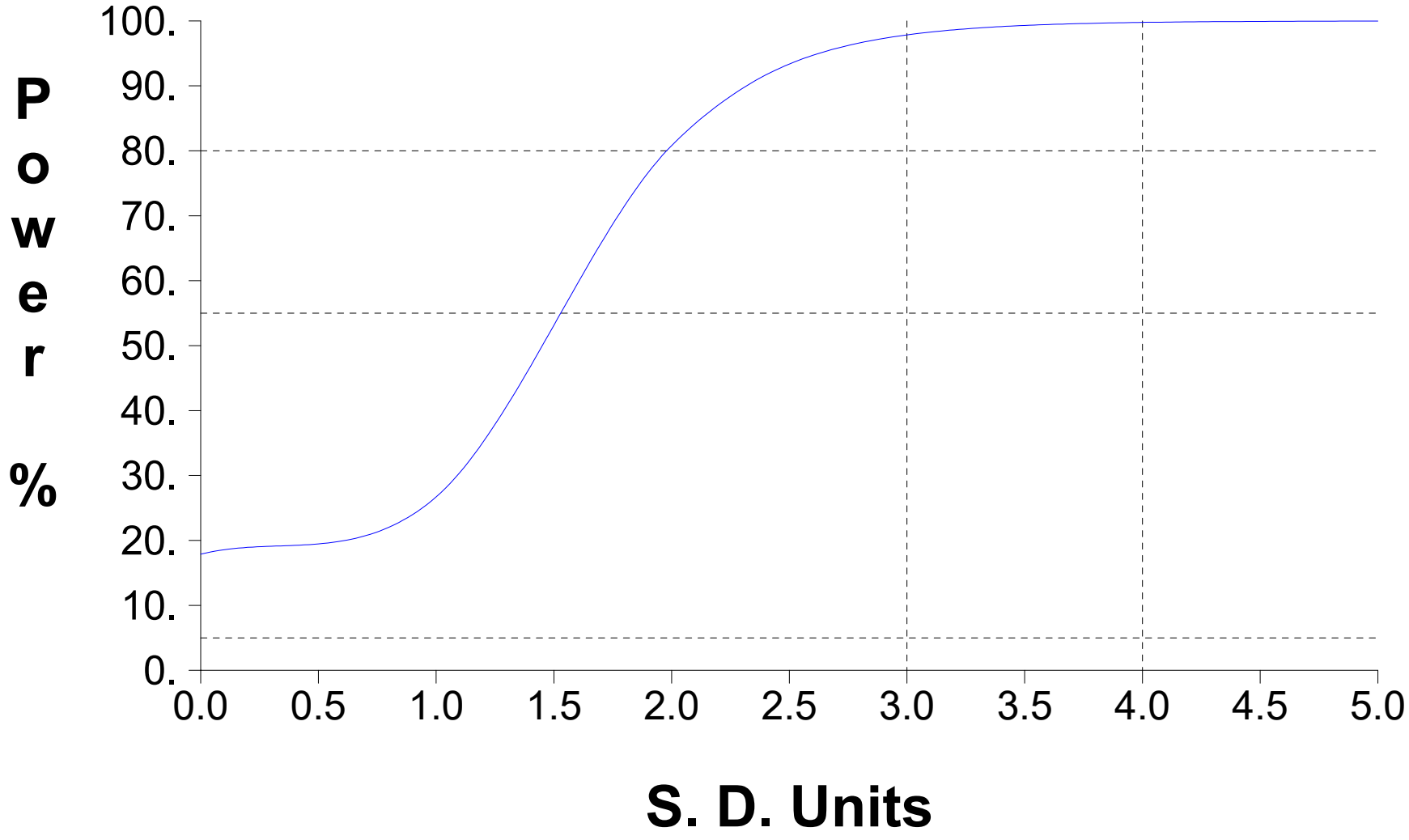


Graph 194



Graph 195

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



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) = **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) = **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** = **1862.7** / **15** = **124.18**	Compute background mean.
2	S = ((**sum[X^2]** - **sum[X]**^{2}/**N**) / (**N**-1))^{½} = ((**265979.89** - **3.47**x**10**^{6}/**15**) / (**15**-1))^{½} = **49.764**	Compute background sd.
3	SCL = $\overline{\mathbf{X}}$ + **F** * **S** = **124.18** + **6.5** * **49.764** = **447.643**	Compute combined Shewhart-CUSUM normal control limit.
4	N' = **N** * (**N**-1) / 2 = **15** * (**15**-1) / 2 = **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 = (**105** - **2.326** * **406.333**^{½}) / 2 = **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) = **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) = **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) = **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) = **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) = **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) = **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) = **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) = **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) = **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) = **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) = **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) = **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) = **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) = **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** = **5508.0** / **26** = **211.846**	Compute background mean.
2	S = ((**sum[X^2]** - **sum[X]**^{2}/**N**) / (**N**-1))^{½} = ((**1.22**x**10^6** - **3.03**x**10^7**/**26**) / (**26**-1))^{½} = **43.962**	Compute background sd.
3	SCL = $\overline{\mathbf{X}}$ + **F** * **S** = **211.846** + **6.5** * **43.962** = **497.596**	Compute combined Shewhart-CUSUM normal control limit.
4	N' = **N** * (**N**-1) / 2 = **26** * (**26**-1) / 2 = **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 = (**325** - **2.326** * **2029.333**^{½}) / 2 = **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) = **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) = **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) = **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) = **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) = **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) = **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) = **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) = **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) = **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) = **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) = **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) = **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) = **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) = **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** = **6806.5** / **30** = **226.883**	Compute background mean.
2	S = (((**sum[X^2]** - **sum[X]**^{2}/**N**) / (**N**-1))^{½} = (((**1.56**x**10^6** - **4.63**x**10^7**/**30**) / (**30**-1))^{½} = **23.869**	Compute background sd.
3	SCL = $\overline{\mathbf{X}}$ + **F** * **S** = **226.883** + **6.5** * **23.869** = **382.03**	Compute combined Shewhart-CUSUM normal control limit.
4	N' = **N** * (**N**-1) / 2 = **30** * (**30**-1) / 2 = **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 = (**435** - **2.326** * **3100.0**^{½}) / 2 = **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) = **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) = **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) = **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) = **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) = **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) = **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) = **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) = **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) = **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) = **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) = **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) = **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) = **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) = **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** = **6662.0** / **29** = **229.724**	Compute background mean.
2	S = ((**sum[X^2]** - **sum[X]**^{2}/**N**) / (**N**-1))^{½} = ((**1.62**x**10^6** - **4.44**x**10^7**/**29**) / (**29**-1))^{½} = **56.16**	Compute background sd.
3	SCL = $\overline{\mathbf{X}}$ + **F** * **S** = **229.724** + **6.5** * **56.16** = **594.767**	Compute combined Shewhart-CUSUM normal control limit.
4	N' = **N** * (**N**-1) / 2 = **29** * (**29**-1) / 2 = **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 = (**406** - **2.326** * **2830.667**^{½}) / 2 = **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) = **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) = **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) = **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) = **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) = **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) = **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) = **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) = **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) = **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) = **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) = **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) = **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) = **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) = **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** = **4554.0** / **30** = **151.8**	Compute background mean.
2	S = ((**sum[X^2]** - **sum[X]**^{2}/**N**) / (**N**-1))^{½} = ((**705216.0** - **2.07**x**10^7**/**30**) / (**30**-1))^{½} = **21.908**	Compute background sd.
3	SCL = $\overline{\mathbf{X}}$ + **F** * **S** = **151.8** + **6.5** * **21.908** = **294.202**	Compute combined Shewhart-CUSUM normal control limit.
4	N' = **N** * (**N**-1) / 2 = **30** * (**30**-1) / 2 = **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 = (**435** - **2.326** * **3064.333**^{½}) / 2 = **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) = **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) = **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) = **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) = **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) = **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) = **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** = **428.8** / **30** = **14.293**	Compute background mean.
2	S = ((**sum[X^2]** - **sum[X]**^{2}/**N**) / (**N**-1))^{½} = ((**6420.3** - **183869.44/30**) / (**30**-1))^{½} = **3.169**	Compute background sd.
3	SCL = $\overline{\mathbf{X}}$ + **F** * **S** = **14.293** + **6.5** * **3.169** = **34.895**	Compute combined Shewhart-CUSUM normal control limit.
4	N' = **N** * (**N**-1) / 2 = **30** * (**30**-1) / 2 = **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 = (**435** - **2.326** * **3111.333**^{½}) / 2 = **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) = **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) = **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) = **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) = **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) = **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) = **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) = **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** = **6926.0** / **29** = **238.828**	Compute background mean.
2	S = (((**sum[X^2]** - **sum[X]**^{2}/**N**) / (**N**-1))^{½} = (((**1.69**x**10^6** - **4.80**x**10^7**/**29**) / (**29**-1))^{½} = **33.802**	Compute background sd.
3	SCL = $\overline{\mathbf{X}}$ + **F** * **S** = **238.828** + **6.5** * **33.802** = **458.541**	Compute combined Shewhart-CUSUM normal control limit.
4	N' = **N** * (**N**-1) / 2 = **29** * (**29**-1) / 2 = **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 = (**406** - **2.326** * **2803.0**^{½}) / 2 = **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) = **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) = **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) = **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) = **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) = **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) = **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) = **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) = **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) = **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) = **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) = **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) = **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) = **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) = **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** = **2768.0** / **17** = **162.824**	Compute background mean.
2	S = ((**sum[X^2]** - **sum[X]**^{2}/**N**) / (**N**-1))^{½} = ((**475168.0** - **7.66**x**10^6**/**17**) / (**17**-1))^{½} = **39.109**	Compute background sd.
3	SCL = $\overline{\mathbf{X}}$ + **F** * **S** = **162.824** + **6.5** * **39.109** = **417.033**	Compute combined Shewhart-CUSUM normal control limit.
4	N' = **N** * (**N**-1) / 2 = **17** * (**17**-1) / 2 = **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 = (**136** - **2.326** * **587.333**^{½}) / 2 = **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) = **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) = **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) = **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) = **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) = **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) = **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) = **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) = **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) = **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) = **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) = **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) = **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) = **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) = **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** = **2023.6** / **27** = **74.948**	Compute background mean.
2	S = ((**sum[X^2]** - **sum[X]**^{2}/**N**) / (**N**-1))^{½} = ((**303118.94** - **4.09**x**10**^{6}/**27**) / (**27**-1))^{½} = **76.323**	Compute background sd.
3	SCL = $\overline{\mathbf{X}}$ + **F** * **S** = **74.948** + **6.5** * **76.323** = **571.045**	Compute combined Shewhart-CUSUM normal control limit.
4	N' = **N** * (**N**-1) / 2 = **27** * (**27**-1) / 2 = **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 = (**351** - **2.326** * **2297.0**^{½}) / 2 = **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) = **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) = **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) = **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) = **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) = **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) = **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) = **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) = **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) = **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) = **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) = **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) = **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-36A
Nonparametric Prediction Limit

Step	Equation	Description
1	PL = median(X) = **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-36A
Nonparametric Prediction Limit

Step	Equation	Description
1	PL = median(X) = **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-36A
Normal Control Limit

Step	Equation	Description
1	$\overline{X}$ = **sum[X]** / **N** = **2004.4** / **25** = **80.176**	Compute background mean.
2	S = ((**sum[X^2]** - **sum[X]**^{2}/**N**) / (**N**-1))^{½} = ((**391978.72** - **4.02**x**10**^{6}/**25**) / (**25**-1))^{½} = **98.165**	Compute background sd.
3	SCL = $\overline{\mathbf{X}}$ + **F** * **S** = **80.176** + **6.5** * **98.165** = **718.25**	Compute combined Shewhart-CUSUM normal control limit.
4	N' = **N** * (**N**-1) / 2 = **25** * (**25**-1) / 2 = **300**	Number of sample pairs during trend detection period.
5	S = **0.106**	Sen's estimator of trend.
6	var(S) = **1831.333**	Variance estimate for slope.
7	M_1(S) = (**N'** - **Z**$_{.99}$ * **var(S)**^{½}) / 2 = (**300** - **2.326** * **1831.333**^{½}) / 2 = **100.23**	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) = **-1.326**	One-sided lower confidence limit for slope.

Worksheet 2 - Intra-Well Control Charts / Prediction Limits
Beryllium, Total (ug/L) at MW-36A
Nonparametric Prediction Limit

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

Worksheet 2 - Intra-Well Control Charts / Prediction Limits
Cadmium, Total (ug/L) at MW-36A
Nonparametric Prediction Limit

Step	Equation	Description
1	PL = median(X) = **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-36A
Nonparametric Prediction Limit

Step	Equation	Description
1	PL = median(X) = **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-36A
Nonparametric Prediction Limit

Step	Equation	Description
1	PL = median(X) = **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-36A
Nonparametric Prediction Limit

Step	Equation	Description
1	PL = median(X) = **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-36A
Nonparametric Prediction Limit

Step	Equation	Description
1	PL = median(X) = **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-36A
Nonparametric Prediction Limit

Step	Equation	Description
1	PL = median(X) = **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-36A
Nonparametric Prediction Limit

Step	Equation	Description
1	PL = median(X) = **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-36A
Nonparametric Prediction Limit

Step	Equation	Description
1	PL = median(X) = **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-36A
Nonparametric Prediction Limit

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

Worksheet 2 - Intra-Well Control Charts / Prediction Limits
Vanadium, Total (ug/L) at MW-36A
Nonparametric Prediction Limit

Step	Equation	Description
1	PL = median(X) = **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-36A
Nonparametric Prediction Limit

Step	Equation	Description
1	PL = median(X) = **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) = **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) = **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** = **3906.0** / **18** = **217.0**	Compute background mean.
2	S = ((**sum[X^2]** - **sum[X]**^{2}/**N**) / (**N**-1))^{½} = ((**1.01**x**10^6** - **1.53**x**10^7**/**18**) / (**18**-1))^{½} = **97.185**	Compute background sd.
3	SCL = $\overline{\mathbf{X}}$ + **F** * **S** = **217.0** + **6.5** * **97.185** = **848.703**	Compute combined Shewhart-CUSUM normal control limit.
4	N' = **N** * (**N**-1) / 2 = **18** * (**18**-1) / 2 = **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 = (**153** - **2.326** * **694.0**^{½}) / 2 = **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) = **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) = **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) = **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** = **186.3** / **18** = **10.35**	Compute background mean.
2	S = ((**sum[X^2]** - **sum[X]**^{2}/**N**) / (**N**-1))^{½} = ((**1966.89** - **34707.69**/**18**) / (**18**-1))^{½} = **1.509**	Compute background sd.
3	SCL = $\overline{\mathbf{X}}$ + **F** * **S** = **10.35** + **6.5** * **1.509** = **20.155**	Compute combined Shewhart-CUSUM normal control limit.
4	N' = **N** * (**N**-1) / 2 = **18** * (**18**-1) / 2 = **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 = (**153** - **2.326** * **362.333**^{½}) / 2 = **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) = **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) = **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** = **884.5** / **18** = **49.139**	Compute background mean.
2	S = ((**sum[X^2]** - **sum[X]**^{2}/**N**) / (**N**-1))^{½} = ((**47844.23** - **782340.25**/**18**) / (**18**-1))^{½} = **16.053**	Compute background sd.
3	SCL = $\overline{\mathbf{X}}$ + **F** * **S** = **49.139** + **6.5** * **16.053** = **153.483**	Compute combined Shewhart-CUSUM normal control limit.
4	N' = **N** * (**N**-1) / 2 = **18** * (**18**-1) / 2 = **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 = (**153** - **2.326** * **696.0**^{½}) / 2 = **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) = **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) = **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) = **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) = **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) = **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) = **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) = **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** = **5757.0** / **27** = **213.222**	Compute background mean.
2	S = ((**sum[X^2]** - **sum[X]**^{2}/**N**) / (**N**-1))^{½} = ((**1.24**x**10^6** - **3.31**x**10^7**/**27**) / (**27**-1))^{½} = **18.344**	Compute background sd.
3	SCL = $\overline{\mathbf{X}}$ + **F** * **S** = **213.222** + **6.5** * **18.344** = **332.456**	Compute combined Shewhart-CUSUM normal control limit.
4	N' = **N** * (**N**-1) / 2 = **27** * (**27**-1) / 2 = **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 = (**351** - **2.326** * **2266.333**^{½}) / 2 = **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) = **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) = **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) = **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) = **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) = **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) = **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** = **626.6** / **27** = **23.207**	Compute background mean.
2	S = ((**sum[X^2]** - **sum[X]**^{2}/**N**) / (**N**-1))^{½} = ((**16022.48** - **392627.56**/**27**) / (**27**-1))^{½} = **7.547**	Compute background sd.
3	SCL = $\overline{\mathbf{X}}$ + **F** * **S** = **23.207** + **6.5** * **7.547** = **72.26**	Compute combined Shewhart-CUSUM normal control limit.
4	N' = **N** * (**N**-1) / 2 = **27** * (**27**-1) / 2 = **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 = (**351** - **2.326** * **2293.333**^{½}) / 2 = **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) = **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) = **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) = **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) = **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) = **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) = **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) = **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** = **5802.0** / **20** = **290.1**	Compute background mean.
2	S = ((**sum[X^2]** - **sum[X]**^{2}/**N**) / (**N**-1))^{½} = ((**1.76**x**10^6** - **3.37**x**10^7**/**20**) / (**20**-1))^{½} = **61.56**	Compute background sd.
3	SCL = $\overline{\mathbf{X}}$ + **F** * **S** = **290.1** + **6.5** * **61.56** = **690.242**	Compute combined Shewhart-CUSUM normal control limit.
4	N' = **N** * (**N**-1) / 2 = **20** * (**20**-1) / 2 = **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 = (**190** - **2.326** * **938.333**^{½}) / 2 = **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) = **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) = **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) = **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) = **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) = **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) = **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) = **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) = **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) = **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) = **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) = **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) = **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) = **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) = **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** = **4373.0** / **16** = **273.313**	Compute background mean.
2	S = ((**sum[X^2]** - **sum[X]**^{2}/**N**) / (**N**-1))^{½} = ((**1.22**x**10^6** - **1.91**x**10^7**/**16**) / (**16**-1))^{½} = **41.355**	Compute background sd.
3	SCL = $\overline{\mathbf{X}}$ + **F** * **S** = **273.313** + **6.5** * **41.355** = **542.119**	Compute combined Shewhart-CUSUM normal control limit.
4	N' = **N** * (**N**-1) / 2 = **16** * (**16**-1) / 2 = **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 = (**120** - **2.326** * **473.667**^{½}) / 2 = **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) = **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) = **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) = **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) = **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) = **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) = **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) = **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) = **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) = **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) = **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) = **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) = **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).

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				
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				
Arsenic, Total	ug/L	Holding Pond	05/20/2024		21.3000					**

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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	
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				
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		
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				
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				

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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	
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				
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				
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				
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				

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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	
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				
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				
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				
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				

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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	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				
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				
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				
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					**

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Table 2

Analytical Data and CUSUM Summary

Constituent	Units	Well	Date	Background	Result		Outlier	CUSUM	Adjusted	
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					**
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				
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				
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				

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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	
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				
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				
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				
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				

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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	
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				
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				
Antimony, Total	ug/L	MW-11A	04/24/2008	yes	6.0000	ND				
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				

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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	
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				
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				
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				

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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	
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				
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		
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		
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				

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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	
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				
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				
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				

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Table 2

Analytical Data and CUSUM Summary

Constituent	Units	Well	Date	Background	Result		Outlier	CUSUM	Adjusted	
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				
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				
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				

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Table 2

Analytical Data and CUSUM Summary

Constituent	Units	Well	Date	Background	Result		Outlier	CUSUM	Adjusted	
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				
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				
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			*

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Table 2

Analytical Data and CUSUM Summary

Constituent	Units	Well	Date	Background	Result		Outlier	CUSUM	Adjusted	
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				
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				
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				

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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-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				
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				
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				
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				

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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	
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				
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				
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				

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Table 2

Analytical Data and CUSUM Summary

Constituent	Units	Well	Date	Background	Result		Outlier	CUSUM	Adjusted	
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				
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				
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				

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Table 2

Analytical Data and CUSUM Summary

Constituent	Units	Well	Date	Background	Result		Outlier	CUSUM	Adjusted	
Thallium, Total	ug/L	MW-11A	10/02/2024		2.0000	ND				
Thallium, Total	ug/L	MW-11A	05/12/2025		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				
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				
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				

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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-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				
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				
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				

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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-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				
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				
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				

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Table 2

Analytical Data and CUSUM Summary

Constituent	Units	Well	Date	Background	Result		Outlier	CUSUM	Adjusted	
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				
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					
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		**
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				

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Table 2

Analytical Data and CUSUM Summary

Constituent	Units	Well	Date	Background	Result		Outlier	CUSUM	Adjusted	
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				
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				
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				

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Table 2

Analytical Data and CUSUM Summary

Constituent	Units	Well	Date	Background	Result		Outlier	CUSUM	Adjusted	
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				
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				
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				

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Table 2

Analytical Data and CUSUM Summary

Constituent	Units	Well	Date	Background	Result		Outlier	CUSUM	Adjusted	
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				
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					

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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	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					
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				
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				
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				

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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	
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				
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				
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					

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Table 2

Analytical Data and CUSUM Summary

Constituent	Units	Well	Date	Background	Result		Outlier	CUSUM	Adjusted	
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					
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					**
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				

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Table 2

Analytical Data and CUSUM Summary

Constituent	Units	Well	Date	Background	Result		Outlier	CUSUM	Adjusted	
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				
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				
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				

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

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Table 2

Analytical Data and CUSUM Summary

Constituent	Units	Well	Date	Background	Result		Outlier	CUSUM	Adjusted	
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				
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				
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				

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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-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				
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				
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				

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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-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				
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				
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				

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Table 2

Analytical Data and CUSUM Summary

Constituent	Units	Well	Date	Background	Result		Outlier	CUSUM	Adjusted	
Arsenic, Total	ug/L	MW-13A	10/02/2024		10.0000	ND				
Arsenic, Total	ug/L	MW-13A	05/12/2025		10.0000	ND				
Barium, Total	ug/L	MW-13A	04/24/2008	yes	170.0000					
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		**
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				

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Table 2

Analytical Data and CUSUM Summary

Constituent	Units	Well	Date	Background	Result		Outlier	CUSUM	Adjusted	
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				
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				
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				

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Table 2

Analytical Data and CUSUM Summary

Constituent	Units	Well	Date	Background	Result		Outlier	CUSUM	Adjusted	
Cadmium, Total	ug/L	MW-13A	06/16/2016	yes	5.0000	ND				
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				
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				

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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				
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					
Copper, Total	ug/L	MW-13A	04/24/2008	yes	10.0000	ND				
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				

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Table 2

Analytical Data and CUSUM Summary

Constituent	Units	Well	Date	Background	Result		Outlier	CUSUM	Adjusted	
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				
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				
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				

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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-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				
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				
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				

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Table 2

Analytical Data and CUSUM Summary

Constituent	Units	Well	Date	Background	Result		Outlier	CUSUM	Adjusted	
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				
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				
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				

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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-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				
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				
Thallium, Total	ug/L	MW-13A	04/24/2008	yes	2.0000	ND				
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				

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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	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				
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				
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				

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

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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-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				
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				
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				
Arsenic, Total	ug/L	MW-19A	04/24/2008	yes	10.0000	ND				

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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	
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				
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					

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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-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		
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				
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				

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Table 2

Analytical Data and CUSUM Summary

Constituent	Units	Well	Date	Background	Result		Outlier	CUSUM	Adjusted	
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				
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				
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				

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Table 2

Analytical Data and CUSUM Summary

Constituent	Units	Well	Date	Background	Result		Outlier	CUSUM	Adjusted	
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				
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				
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				
Cobalt, Total	ug/L	MW-19A	04/24/2008	yes	10.0000	ND				

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Table 2

Analytical Data and CUSUM Summary

Constituent	Units	Well	Date	Background	Result		Outlier	CUSUM	Adjusted	
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				
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				
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				

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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-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				
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				
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				

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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-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				
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					
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		

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Table 2

Analytical Data and CUSUM Summary

Constituent	Units	Well	Date	Background	Result		Outlier	CUSUM	Adjusted	
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		**
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				
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				
Silver, Total	ug/L	MW-19A	04/24/2008	yes	10.0000	ND				

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Table 2

Analytical Data and CUSUM Summary

Constituent	Units	Well	Date	Background	Result		Outlier	CUSUM	Adjusted	
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				
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				
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				

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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	
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				
Thallium, Total	ug/L	MW-19A	05/12/2025		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				

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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-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				
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	***
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				

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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-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				
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				
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				
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				

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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	
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				
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				
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					

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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	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		
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		
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				

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*** - ND value replaced with median RL.
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Table 2

Analytical Data and CUSUM Summary

Constituent	Units	Well	Date	Background	Result		Outlier	CUSUM	Adjusted	
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				
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				
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				

* - 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	10/05/2023		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				
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				
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				
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				

* - 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	
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	***
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				
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				

* - Outlier for that well and constituent.
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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	
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				
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				
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				

* - Outlier for that well and constituent.
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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-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				
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				
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				
Selenium, Total	ug/L	MW-21A	04/24/2008	yes	10.0000	ND				

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Table 2

Analytical Data and CUSUM Summary

Constituent	Units	Well	Date	Background	Result		Outlier	CUSUM	Adjusted	
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				
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				
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				

* - 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	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				
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				
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				

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**** - ND value replaced with manual RL.
ND = Not detected, Result = detection limit.

Table 2

Analytical Data and CUSUM Summary

Constituent	Units	Well	Date	Background	Result		Outlier	CUSUM	Adjusted	
Thallium, Total	ug/L	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				
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				
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				

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Table 2

Analytical Data and CUSUM Summary

Constituent	Units	Well	Date	Background	Result		Outlier	CUSUM	Adjusted	
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				
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				
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				
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	***

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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-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				
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				
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				

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Table 2

Analytical Data and CUSUM Summary

Constituent	Units	Well	Date	Background	Result		Outlier	CUSUM	Adjusted	
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				
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					**
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		**

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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-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		**
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		**
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				
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				

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Table 2

Analytical Data and CUSUM Summary

Constituent	Units	Well	Date	Background	Result		Outlier	CUSUM	Adjusted	
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				
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				
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			*

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Table 2

Analytical Data and CUSUM Summary

Constituent	Units	Well	Date	Background	Result		Outlier	CUSUM	Adjusted	
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				
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				
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					

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Table 2

Analytical Data and CUSUM Summary

Constituent	Units	Well	Date	Background	Result		Outlier	CUSUM	Adjusted	
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					**
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					**
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				
Lead, Total	ug/L	MW-23A	04/27/2009	yes	10.0000	ND				

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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-23A	10/26/2009	yes	10.0000	ND				
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				
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			*

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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					**
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				
Selenium, Total	ug/L	MW-23A	10/31/2018		10.0000	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	
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				
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				
Silver, Total	ug/L	MW-23A	05/20/2024		10.0000	ND				
Silver, Total	ug/L	MW-23A	10/02/2024		10.0000	ND				

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Table 2

Analytical Data and CUSUM Summary

Constituent	Units	Well	Date	Background	Result		Outlier	CUSUM	Adjusted	
Silver, Total	ug/L	MW-23A	05/12/2025		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				
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				
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				

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Table 2

Analytical Data and CUSUM Summary

Constituent	Units	Well	Date	Background	Result		Outlier	CUSUM	Adjusted	
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				
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				
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				

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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	
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				
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				
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				
Arsenic, Total	ug/L	MW-34A	04/27/2009	yes	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	
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				
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					
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					

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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-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		
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				
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				
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				

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Table 2

Analytical Data and CUSUM Summary

Constituent	Units	Well	Date	Background	Result		Outlier	CUSUM	Adjusted	
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				
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				
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				

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Table 2

Analytical Data and CUSUM Summary

Constituent	Units	Well	Date	Background	Result		Outlier	CUSUM	Adjusted	
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				
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	***
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					
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				

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Table 2

Analytical Data and CUSUM Summary

Constituent	Units	Well	Date	Background	Result		Outlier	CUSUM	Adjusted	
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				
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				
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				

* - 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-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				
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				
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				
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				

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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	
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				
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				
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				

* - 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	
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				
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				
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				
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				

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Table 2

Analytical Data and CUSUM Summary

Constituent	Units	Well	Date	Background	Result		Outlier	CUSUM	Adjusted	
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				
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				
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				

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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-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				
Antimony, Total	ug/L	MW-36A	04/27/2009	yes	6.0000	ND				
Antimony, Total	ug/L	MW-36A	10/26/2009	yes	6.8000	ND			6.0000	***
Antimony, Total	ug/L	MW-36A	12/17/2009	yes	6.8000	ND			6.0000	***
Antimony, Total	ug/L	MW-36A	04/13/2010	yes	6.8000	ND			6.0000	***
Antimony, Total	ug/L	MW-36A	05/18/2010	yes	6.8000	ND			6.0000	***
Antimony, Total	ug/L	MW-36A	06/21/2010	yes	6.8000	ND			6.0000	***
Antimony, Total	ug/L	MW-36A	08/18/2010	yes	6.8000	ND			6.0000	***
Antimony, Total	ug/L	MW-36A	10/18/2010	yes	6.8000	ND			6.0000	***
Antimony, Total	ug/L	MW-36A	05/10/2011	yes	6.0000	ND				
Antimony, Total	ug/L	MW-36A	10/19/2011	yes	6.0000	ND				
Antimony, Total	ug/L	MW-36A	04/24/2012	yes	6.0000	ND				
Antimony, Total	ug/L	MW-36A	10/25/2012	yes	6.0000	ND				
Antimony, Total	ug/L	MW-36A	05/07/2013	yes	6.0000	ND				
Antimony, Total	ug/L	MW-36A	11/11/2013	yes	6.0000	ND				
Antimony, Total	ug/L	MW-36A	05/13/2014	yes	6.0000	ND				
Antimony, Total	ug/L	MW-36A	11/12/2014	yes	6.0000	ND				
Antimony, Total	ug/L	MW-36A	05/27/2015	yes	6.0000	ND				
Antimony, Total	ug/L	MW-36A	11/18/2015	yes	6.0000	ND				
Antimony, Total	ug/L	MW-36A	06/16/2016	yes	6.0000	ND				
Antimony, Total	ug/L	MW-36A	11/16/2016	yes	6.0000	ND				
Antimony, Total	ug/L	MW-36A	05/30/2017	yes	6.0000	ND				
Antimony, Total	ug/L	MW-36A	11/21/2017	yes	6.0000	ND				
Antimony, Total	ug/L	MW-36A	05/31/2018	yes	6.0000	ND				
Antimony, Total	ug/L	MW-36A	10/31/2018	yes	6.0000	ND				
Antimony, Total	ug/L	MW-36A	10/15/2019	yes	6.0000	ND				
Antimony, Total	ug/L	MW-36A	05/03/2021		6.0000	ND				
Antimony, Total	ug/L	MW-36A	01/13/2022		6.0000	ND				
Antimony, Total	ug/L	MW-36A	05/17/2022		6.0000	ND				
Antimony, Total	ug/L	MW-36A	10/17/2022		6.0000	ND				
Antimony, Total	ug/L	MW-36A	05/22/2023		6.0000	ND				
Antimony, Total	ug/L	MW-36A	05/12/2025		6.0000	ND				
Arsenic, Total	ug/L	MW-36A	04/27/2009	yes	10.0000	ND				
Arsenic, Total	ug/L	MW-36A	10/26/2009	yes	10.0000	ND				
Arsenic, Total	ug/L	MW-36A	12/17/2009	yes	10.0000	ND				
Arsenic, Total	ug/L	MW-36A	04/13/2010	yes	10.0000	ND				
Arsenic, Total	ug/L	MW-36A	05/18/2010	yes	10.0000	ND				
Arsenic, Total	ug/L	MW-36A	06/21/2010	yes	10.0000	ND				
Arsenic, Total	ug/L	MW-36A	08/18/2010	yes	10.0000	ND				
Arsenic, Total	ug/L	MW-36A	10/18/2010	yes	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	
Arsenic, Total	ug/L	MW-36A	05/10/2011	yes	10.0000	ND				
Arsenic, Total	ug/L	MW-36A	10/19/2011	yes	10.0000	ND				
Arsenic, Total	ug/L	MW-36A	04/24/2012	yes	10.0000	ND				
Arsenic, Total	ug/L	MW-36A	10/25/2012	yes	10.0000	ND				
Arsenic, Total	ug/L	MW-36A	05/07/2013	yes	10.0000	ND				
Arsenic, Total	ug/L	MW-36A	11/11/2013	yes	10.0000	ND				
Arsenic, Total	ug/L	MW-36A	05/13/2014	yes	10.0000	ND				
Arsenic, Total	ug/L	MW-36A	11/12/2014	yes	10.0000	ND				
Arsenic, Total	ug/L	MW-36A	05/27/2015	yes	10.0000	ND				
Arsenic, Total	ug/L	MW-36A	11/18/2015	yes	10.0000	ND				
Arsenic, Total	ug/L	MW-36A	06/16/2016	yes	10.0000	ND				
Arsenic, Total	ug/L	MW-36A	11/16/2016	yes	10.0000	ND				
Arsenic, Total	ug/L	MW-36A	05/30/2017	yes	10.0000	ND				
Arsenic, Total	ug/L	MW-36A	11/21/2017	yes	10.0000	ND				
Arsenic, Total	ug/L	MW-36A	05/31/2018	yes	10.0000	ND				
Arsenic, Total	ug/L	MW-36A	10/31/2018	yes	10.0000	ND				
Arsenic, Total	ug/L	MW-36A	10/15/2019	yes	10.0000	ND				
Arsenic, Total	ug/L	MW-36A	05/03/2021		10.0000	ND				
Arsenic, Total	ug/L	MW-36A	01/13/2022		10.0000	ND				
Arsenic, Total	ug/L	MW-36A	05/17/2022		10.0000	ND				
Arsenic, Total	ug/L	MW-36A	10/17/2022		10.0000	ND				
Arsenic, Total	ug/L	MW-36A	05/22/2023		10.0000	ND				
Arsenic, Total	ug/L	MW-36A	05/12/2025		10.0000	ND				
Barium, Total	ug/L	MW-36A	04/27/2009	yes	41.5000					
Barium, Total	ug/L	MW-36A	10/26/2009	yes	42.8000					
Barium, Total	ug/L	MW-36A	12/17/2009	yes	43.5000					
Barium, Total	ug/L	MW-36A	04/13/2010	yes	38.0000					
Barium, Total	ug/L	MW-36A	05/18/2010	yes	36.7000					
Barium, Total	ug/L	MW-36A	06/21/2010	yes	39.4000					
Barium, Total	ug/L	MW-36A	08/18/2010	yes	39.3000					
Barium, Total	ug/L	MW-36A	10/18/2010	yes	44.2000					
Barium, Total	ug/L	MW-36A	05/10/2011	yes	39.0000					
Barium, Total	ug/L	MW-36A	10/19/2011	yes	42.0000					
Barium, Total	ug/L	MW-36A	04/24/2012	yes	37.0000					
Barium, Total	ug/L	MW-36A	10/25/2012	yes	43.0000					
Barium, Total	ug/L	MW-36A	05/07/2013	yes	37.0000					
Barium, Total	ug/L	MW-36A	11/11/2013	yes	41.0000					
Barium, Total	ug/L	MW-36A	05/13/2014	yes	33.0000					
Barium, Total	ug/L	MW-36A	11/12/2014	yes	46.0000					
Barium, Total	ug/L	MW-36A	05/27/2015	yes	36.0000					
Barium, Total	ug/L	MW-36A	11/18/2015	yes	40.0000					
Barium, Total	ug/L	MW-36A	06/16/2016	yes	24.0000					
Barium, Total	ug/L	MW-36A	11/16/2016	yes	31.0000					
Barium, Total	ug/L	MW-36A	05/30/2017	yes	30.0000					
Barium, Total	ug/L	MW-36A	11/21/2017	yes	320.0000					
Barium, Total	ug/L	MW-36A	05/31/2018	yes	290.0000					
Barium, Total	ug/L	MW-36A	10/31/2018	yes	300.0000					
Barium, Total	ug/L	MW-36A	10/15/2019	yes	290.0000					
Barium, Total	ug/L	MW-36A	05/03/2021		303.0000			229.3761		
Barium, Total	ug/L	MW-36A	01/13/2022		38.0000			113.5761		

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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-36A	05/17/2022		182.0000			141.7762		
Barium, Total	ug/L	MW-36A	10/17/2022		223.0000			210.9763		
Barium, Total	ug/L	MW-36A	05/22/2023		267.0000			324.1763		
Barium, Total	ug/L	MW-36A	05/12/2025		42.6000			212.9764		
Beryllium, Total	ug/L	MW-36A	04/27/2009	yes	4.0000	ND				
Beryllium, Total	ug/L	MW-36A	10/26/2009	yes	4.0000	ND				
Beryllium, Total	ug/L	MW-36A	12/17/2009	yes	4.0000	ND				
Beryllium, Total	ug/L	MW-36A	04/13/2010	yes	4.0000	ND				
Beryllium, Total	ug/L	MW-36A	05/18/2010	yes	4.0000	ND				
Beryllium, Total	ug/L	MW-36A	06/21/2010	yes	4.0000	ND				
Beryllium, Total	ug/L	MW-36A	08/18/2010	yes	4.0000	ND				
Beryllium, Total	ug/L	MW-36A	10/18/2010	yes	4.0000	ND				
Beryllium, Total	ug/L	MW-36A	05/10/2011	yes	4.0000	ND				
Beryllium, Total	ug/L	MW-36A	10/19/2011	yes	4.0000	ND				
Beryllium, Total	ug/L	MW-36A	04/24/2012	yes	4.0000	ND				
Beryllium, Total	ug/L	MW-36A	10/25/2012	yes	4.0000	ND				
Beryllium, Total	ug/L	MW-36A	05/07/2013	yes	4.0000	ND				
Beryllium, Total	ug/L	MW-36A	11/11/2013	yes	4.0000	ND				
Beryllium, Total	ug/L	MW-36A	05/13/2014	yes	4.0000	ND				
Beryllium, Total	ug/L	MW-36A	11/12/2014	yes	4.0000	ND				
Beryllium, Total	ug/L	MW-36A	05/27/2015	yes	4.0000	ND				
Beryllium, Total	ug/L	MW-36A	11/18/2015	yes	4.0000	ND				
Beryllium, Total	ug/L	MW-36A	06/16/2016	yes	4.0000	ND				
Beryllium, Total	ug/L	MW-36A	11/16/2016	yes	4.0000	ND				
Beryllium, Total	ug/L	MW-36A	05/30/2017	yes	4.0000	ND				
Beryllium, Total	ug/L	MW-36A	11/21/2017	yes	4.0000	ND				
Beryllium, Total	ug/L	MW-36A	05/31/2018	yes	4.0000	ND				
Beryllium, Total	ug/L	MW-36A	10/31/2018	yes	4.0000	ND				
Beryllium, Total	ug/L	MW-36A	10/15/2019	yes	4.0000	ND				
Beryllium, Total	ug/L	MW-36A	05/03/2021		4.0000	ND				
Beryllium, Total	ug/L	MW-36A	01/13/2022		4.0000	ND				
Beryllium, Total	ug/L	MW-36A	05/17/2022		4.0000	ND				
Beryllium, Total	ug/L	MW-36A	10/17/2022		4.0000	ND				
Beryllium, Total	ug/L	MW-36A	05/22/2023		4.0000	ND				
Beryllium, Total	ug/L	MW-36A	05/12/2025		4.0000	ND				
Cadmium, Total	ug/L	MW-36A	04/27/2009	yes	5.0000	ND				
Cadmium, Total	ug/L	MW-36A	10/26/2009	yes	5.0000	ND				
Cadmium, Total	ug/L	MW-36A	12/17/2009	yes	5.0000	ND				
Cadmium, Total	ug/L	MW-36A	04/13/2010	yes	5.0000	ND				
Cadmium, Total	ug/L	MW-36A	05/18/2010	yes	5.0000	ND				
Cadmium, Total	ug/L	MW-36A	06/21/2010	yes	5.0000	ND				
Cadmium, Total	ug/L	MW-36A	08/18/2010	yes	5.0000	ND				
Cadmium, Total	ug/L	MW-36A	10/18/2010	yes	5.0000	ND				
Cadmium, Total	ug/L	MW-36A	05/10/2011	yes	5.0000	ND				
Cadmium, Total	ug/L	MW-36A	10/19/2011	yes	5.0000	ND				
Cadmium, Total	ug/L	MW-36A	04/24/2012	yes	5.0000	ND				
Cadmium, Total	ug/L	MW-36A	10/25/2012	yes	5.0000	ND				
Cadmium, Total	ug/L	MW-36A	05/07/2013	yes	5.0000	ND				
Cadmium, Total	ug/L	MW-36A	11/11/2013	yes	5.0000	ND				
Cadmium, Total	ug/L	MW-36A	05/13/2014	yes	5.0000	ND				

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Table 2

Analytical Data and CUSUM Summary

Constituent	Units	Well	Date	Background	Result		Outlier	CUSUM	Adjusted	
Cadmium, Total	ug/L	MW-36A	11/12/2014	yes	5.0000	ND				
Cadmium, Total	ug/L	MW-36A	05/27/2015	yes	5.0000	ND				
Cadmium, Total	ug/L	MW-36A	11/18/2015	yes	5.0000	ND				
Cadmium, Total	ug/L	MW-36A	06/16/2016	yes	5.0000	ND				
Cadmium, Total	ug/L	MW-36A	11/16/2016	yes	5.0000	ND				
Cadmium, Total	ug/L	MW-36A	05/30/2017	yes	5.0000	ND				
Cadmium, Total	ug/L	MW-36A	11/21/2017	yes	5.0000	ND				
Cadmium, Total	ug/L	MW-36A	05/31/2018	yes	5.0000	ND				
Cadmium, Total	ug/L	MW-36A	10/31/2018	yes	5.0000	ND				
Cadmium, Total	ug/L	MW-36A	10/15/2019	yes	5.0000	ND				
Cadmium, Total	ug/L	MW-36A	05/03/2021		5.0000	ND				
Cadmium, Total	ug/L	MW-36A	01/13/2022		5.0000	ND				
Cadmium, Total	ug/L	MW-36A	05/17/2022		5.0000	ND				
Cadmium, Total	ug/L	MW-36A	10/17/2022		5.0000	ND				
Cadmium, Total	ug/L	MW-36A	05/22/2023		5.0000	ND				
Cadmium, Total	ug/L	MW-36A	05/12/2025		5.0000	ND				
Chromium, Total	ug/L	MW-36A	04/27/2009	yes	10.0000	ND				
Chromium, Total	ug/L	MW-36A	10/26/2009	yes	10.0000	ND				
Chromium, Total	ug/L	MW-36A	12/17/2009	yes	10.0000	ND				
Chromium, Total	ug/L	MW-36A	04/13/2010	yes	10.0000	ND				
Chromium, Total	ug/L	MW-36A	05/18/2010	yes	10.0000	ND				
Chromium, Total	ug/L	MW-36A	06/21/2010	yes	10.0000	ND				
Chromium, Total	ug/L	MW-36A	08/18/2010	yes	10.0000	ND				
Chromium, Total	ug/L	MW-36A	10/18/2010	yes	10.0000	ND				
Chromium, Total	ug/L	MW-36A	05/10/2011	yes	10.0000	ND				
Chromium, Total	ug/L	MW-36A	10/19/2011	yes	10.0000	ND				
Chromium, Total	ug/L	MW-36A	04/24/2012	yes	10.0000	ND				
Chromium, Total	ug/L	MW-36A	10/25/2012	yes	10.0000	ND				
Chromium, Total	ug/L	MW-36A	05/07/2013	yes	10.0000	ND				
Chromium, Total	ug/L	MW-36A	11/11/2013	yes	10.0000	ND				
Chromium, Total	ug/L	MW-36A	05/13/2014	yes	10.0000	ND				
Chromium, Total	ug/L	MW-36A	11/12/2014	yes	10.0000	ND				
Chromium, Total	ug/L	MW-36A	05/27/2015	yes	10.0000	ND				
Chromium, Total	ug/L	MW-36A	11/18/2015	yes	10.0000	ND				
Chromium, Total	ug/L	MW-36A	06/16/2016	yes	10.0000	ND				
Chromium, Total	ug/L	MW-36A	11/16/2016	yes	10.0000	ND				
Chromium, Total	ug/L	MW-36A	05/30/2017	yes	10.0000	ND				
Chromium, Total	ug/L	MW-36A	11/21/2017	yes	10.0000	ND				
Chromium, Total	ug/L	MW-36A	05/31/2018	yes	10.0000	ND				
Chromium, Total	ug/L	MW-36A	10/31/2018	yes	10.0000	ND				
Chromium, Total	ug/L	MW-36A	10/15/2019	yes	10.0000	ND				
Chromium, Total	ug/L	MW-36A	05/03/2021		10.0000	ND				
Chromium, Total	ug/L	MW-36A	01/13/2022		10.0000	ND				
Chromium, Total	ug/L	MW-36A	05/17/2022		10.0000	ND				
Chromium, Total	ug/L	MW-36A	10/17/2022		10.0000	ND				
Chromium, Total	ug/L	MW-36A	05/22/2023		10.0000	ND				
Chromium, Total	ug/L	MW-36A	05/12/2025		10.0000	ND				
Cobalt, Total	ug/L	MW-36A	04/27/2009	yes	10.0000	ND				
Cobalt, Total	ug/L	MW-36A	10/26/2009	yes	10.0000	ND				
Cobalt, Total	ug/L	MW-36A	12/17/2009	yes	10.0000	ND				

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Table 2

Analytical Data and CUSUM Summary

Constituent	Units	Well	Date	Background	Result		Outlier	CUSUM	Adjusted	
Cobalt, Total	ug/L	MW-36A	04/13/2010	yes	10.0000	ND				
Cobalt, Total	ug/L	MW-36A	05/18/2010	yes	10.0000	ND				
Cobalt, Total	ug/L	MW-36A	06/21/2010	yes	10.0000	ND				
Cobalt, Total	ug/L	MW-36A	08/18/2010	yes	10.0000	ND				
Cobalt, Total	ug/L	MW-36A	10/18/2010	yes	10.0000	ND				
Cobalt, Total	ug/L	MW-36A	05/10/2011	yes	10.0000	ND				
Cobalt, Total	ug/L	MW-36A	10/19/2011	yes	10.0000	ND				
Cobalt, Total	ug/L	MW-36A	04/24/2012	yes	10.0000	ND				
Cobalt, Total	ug/L	MW-36A	10/25/2012	yes	10.0000	ND				
Cobalt, Total	ug/L	MW-36A	05/07/2013	yes	10.0000	ND				
Cobalt, Total	ug/L	MW-36A	11/11/2013	yes	10.0000	ND				
Cobalt, Total	ug/L	MW-36A	05/13/2014	yes	10.0000	ND				
Cobalt, Total	ug/L	MW-36A	11/12/2014	yes	10.0000	ND				
Cobalt, Total	ug/L	MW-36A	05/27/2015	yes	2.8000	ND			10.0000	***
Cobalt, Total	ug/L	MW-36A	11/18/2015	yes	2.8000	ND			10.0000	***
Cobalt, Total	ug/L	MW-36A	06/16/2016	yes	2.8000	ND			10.0000	***
Cobalt, Total	ug/L	MW-36A	11/16/2016	yes	2.8000	ND			10.0000	***
Cobalt, Total	ug/L	MW-36A	05/30/2017	yes	2.8000	ND			10.0000	***
Cobalt, Total	ug/L	MW-36A	11/21/2017	yes	2.8000	ND			10.0000	***
Cobalt, Total	ug/L	MW-36A	05/31/2018	yes	2.8000	ND			10.0000	***
Cobalt, Total	ug/L	MW-36A	10/31/2018	yes	2.8000	ND			10.0000	***
Cobalt, Total	ug/L	MW-36A	10/15/2019	yes	2.1000	ND			10.0000	***
Cobalt, Total	ug/L	MW-36A	05/03/2021		2.0000	ND				
Cobalt, Total	ug/L	MW-36A	01/13/2022		2.0000	ND				
Cobalt, Total	ug/L	MW-36A	05/17/2022		2.0000	ND				
Cobalt, Total	ug/L	MW-36A	10/17/2022		2.0000	ND				
Cobalt, Total	ug/L	MW-36A	05/22/2023		2.0000	ND				
Cobalt, Total	ug/L	MW-36A	05/12/2025		2.0000	ND				
Copper, Total	ug/L	MW-36A	04/27/2009	yes	10.0000	ND				
Copper, Total	ug/L	MW-36A	10/26/2009	yes	10.0000	ND				
Copper, Total	ug/L	MW-36A	12/17/2009	yes	10.0000	ND				
Copper, Total	ug/L	MW-36A	04/13/2010	yes	10.0000	ND				
Copper, Total	ug/L	MW-36A	05/18/2010	yes	10.0000	ND				
Copper, Total	ug/L	MW-36A	06/21/2010	yes	10.0000	ND				
Copper, Total	ug/L	MW-36A	08/18/2010	yes	10.0000	ND				
Copper, Total	ug/L	MW-36A	10/18/2010	yes	10.0000	ND				
Copper, Total	ug/L	MW-36A	05/10/2011	yes	10.0000	ND				
Copper, Total	ug/L	MW-36A	10/19/2011	yes	10.0000	ND				
Copper, Total	ug/L	MW-36A	04/24/2012	yes	10.0000	ND				
Copper, Total	ug/L	MW-36A	10/25/2012	yes	10.0000	ND				
Copper, Total	ug/L	MW-36A	05/07/2013	yes	10.0000	ND				
Copper, Total	ug/L	MW-36A	11/11/2013	yes	10.0000	ND				
Copper, Total	ug/L	MW-36A	05/13/2014	yes	10.0000	ND				
Copper, Total	ug/L	MW-36A	11/12/2014	yes	10.0000	ND				
Copper, Total	ug/L	MW-36A	05/27/2015	yes	10.0000	ND				
Copper, Total	ug/L	MW-36A	11/18/2015	yes	10.0000	ND				
Copper, Total	ug/L	MW-36A	06/16/2016	yes	10.0000	ND				
Copper, Total	ug/L	MW-36A	11/16/2016	yes	10.0000	ND				
Copper, Total	ug/L	MW-36A	05/30/2017	yes	10.0000	ND				
Copper, Total	ug/L	MW-36A	11/21/2017	yes	10.0000	ND				

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Table 2

Analytical Data and CUSUM Summary

Constituent	Units	Well	Date	Background	Result		Outlier	CUSUM	Adjusted	
Copper, Total	ug/L	MW-36A	05/31/2018	yes	10.0000	ND				
Copper, Total	ug/L	MW-36A	10/31/2018	yes	10.0000	ND				
Copper, Total	ug/L	MW-36A	10/15/2019	yes	10.0000	ND				
Copper, Total	ug/L	MW-36A	05/03/2021		10.0000	ND				
Copper, Total	ug/L	MW-36A	01/13/2022		10.0000	ND				
Copper, Total	ug/L	MW-36A	05/17/2022		10.0000	ND				
Copper, Total	ug/L	MW-36A	10/17/2022		10.0000	ND				
Copper, Total	ug/L	MW-36A	05/22/2023		10.0000	ND				
Copper, Total	ug/L	MW-36A	05/12/2025		10.0000	ND				
Lead, Total	ug/L	MW-36A	04/27/2009	yes	10.0000	ND				
Lead, Total	ug/L	MW-36A	10/26/2009	yes	10.0000	ND				
Lead, Total	ug/L	MW-36A	12/17/2009	yes	10.0000	ND				
Lead, Total	ug/L	MW-36A	04/13/2010	yes	10.0000	ND				
Lead, Total	ug/L	MW-36A	05/18/2010	yes	10.0000	ND				
Lead, Total	ug/L	MW-36A	06/21/2010	yes	10.0000	ND				
Lead, Total	ug/L	MW-36A	08/18/2010	yes	10.0000	ND				
Lead, Total	ug/L	MW-36A	10/18/2010	yes	10.0000	ND				
Lead, Total	ug/L	MW-36A	05/10/2011	yes	10.0000	ND				
Lead, Total	ug/L	MW-36A	10/19/2011	yes	10.0000	ND				
Lead, Total	ug/L	MW-36A	04/24/2012	yes	10.0000	ND				
Lead, Total	ug/L	MW-36A	10/25/2012	yes	10.0000	ND				
Lead, Total	ug/L	MW-36A	05/07/2013	yes	10.0000	ND				
Lead, Total	ug/L	MW-36A	11/11/2013	yes	10.0000	ND				
Lead, Total	ug/L	MW-36A	05/13/2014	yes	10.0000	ND				
Lead, Total	ug/L	MW-36A	11/12/2014	yes	10.0000	ND				
Lead, Total	ug/L	MW-36A	05/27/2015	yes	10.0000	ND				
Lead, Total	ug/L	MW-36A	11/18/2015	yes	10.0000	ND				
Lead, Total	ug/L	MW-36A	06/16/2016	yes	10.0000	ND				
Lead, Total	ug/L	MW-36A	11/16/2016	yes	10.0000	ND				
Lead, Total	ug/L	MW-36A	05/30/2017	yes	10.0000	ND				
Lead, Total	ug/L	MW-36A	11/21/2017	yes	10.0000	ND				
Lead, Total	ug/L	MW-36A	05/31/2018	yes	10.0000	ND				
Lead, Total	ug/L	MW-36A	10/31/2018	yes	10.0000	ND				
Lead, Total	ug/L	MW-36A	10/15/2019	yes	10.0000	ND				
Lead, Total	ug/L	MW-36A	05/03/2021		10.0000	ND				
Lead, Total	ug/L	MW-36A	01/13/2022		10.0000	ND				
Lead, Total	ug/L	MW-36A	05/17/2022		10.0000	ND				
Lead, Total	ug/L	MW-36A	10/17/2022		10.0000	ND				
Lead, Total	ug/L	MW-36A	05/22/2023		10.0000	ND				
Lead, Total	ug/L	MW-36A	05/12/2025		10.0000	ND				
Nickel, Total	ug/L	MW-36A	04/27/2009	yes	10.0000	ND				
Nickel, Total	ug/L	MW-36A	10/26/2009	yes	10.0000	ND				
Nickel, Total	ug/L	MW-36A	12/17/2009	yes	10.0000	ND				
Nickel, Total	ug/L	MW-36A	04/13/2010	yes	10.0000	ND				
Nickel, Total	ug/L	MW-36A	05/18/2010	yes	10.0000	ND				
Nickel, Total	ug/L	MW-36A	06/21/2010	yes	10.0000	ND				
Nickel, Total	ug/L	MW-36A	08/18/2010	yes	10.0000	ND				
Nickel, Total	ug/L	MW-36A	10/18/2010	yes	10.0000	ND				
Nickel, Total	ug/L	MW-36A	05/10/2011	yes	10.0000	ND				
Nickel, Total	ug/L	MW-36A	10/19/2011	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-36A	04/24/2012	yes	10.0000	ND				
Nickel, Total	ug/L	MW-36A	10/25/2012	yes	10.0000	ND				
Nickel, Total	ug/L	MW-36A	05/07/2013	yes	10.0000	ND				
Nickel, Total	ug/L	MW-36A	11/11/2013	yes	10.0000	ND				
Nickel, Total	ug/L	MW-36A	05/13/2014	yes	10.0000	ND				
Nickel, Total	ug/L	MW-36A	11/12/2014	yes	10.0000	ND				
Nickel, Total	ug/L	MW-36A	05/27/2015	yes	10.0000	ND				
Nickel, Total	ug/L	MW-36A	11/18/2015	yes	10.0000	ND				
Nickel, Total	ug/L	MW-36A	06/16/2016	yes	10.0000	ND				
Nickel, Total	ug/L	MW-36A	11/16/2016	yes	10.0000	ND				
Nickel, Total	ug/L	MW-36A	05/30/2017	yes	10.0000	ND				
Nickel, Total	ug/L	MW-36A	11/21/2017	yes	10.0000	ND				
Nickel, Total	ug/L	MW-36A	05/31/2018	yes	10.0000	ND				
Nickel, Total	ug/L	MW-36A	10/31/2018	yes	10.0000	ND				
Nickel, Total	ug/L	MW-36A	10/15/2019	yes	10.0000	ND				
Nickel, Total	ug/L	MW-36A	05/03/2021		10.0000	ND				
Nickel, Total	ug/L	MW-36A	01/13/2022		10.0000	ND				
Nickel, Total	ug/L	MW-36A	05/17/2022		10.0000	ND				
Nickel, Total	ug/L	MW-36A	10/17/2022		10.0000	ND				
Nickel, Total	ug/L	MW-36A	05/22/2023		10.0000	ND				
Nickel, Total	ug/L	MW-36A	05/12/2025		71.3000					**
Selenium, Total	ug/L	MW-36A	04/27/2009	yes	10.0000	ND				
Selenium, Total	ug/L	MW-36A	10/26/2009	yes	10.0000	ND				
Selenium, Total	ug/L	MW-36A	12/17/2009	yes	10.0000	ND				
Selenium, Total	ug/L	MW-36A	04/13/2010	yes	10.0000	ND				
Selenium, Total	ug/L	MW-36A	05/18/2010	yes	10.0000	ND				
Selenium, Total	ug/L	MW-36A	06/21/2010	yes	10.0000	ND				
Selenium, Total	ug/L	MW-36A	08/18/2010	yes	10.0000	ND				
Selenium, Total	ug/L	MW-36A	10/18/2010	yes	10.0000	ND				
Selenium, Total	ug/L	MW-36A	05/10/2011	yes	10.0000	ND				
Selenium, Total	ug/L	MW-36A	10/19/2011	yes	10.0000	ND				
Selenium, Total	ug/L	MW-36A	04/24/2012	yes	10.0000	ND				
Selenium, Total	ug/L	MW-36A	10/25/2012	yes	10.0000	ND				
Selenium, Total	ug/L	MW-36A	05/07/2013	yes	10.0000	ND				
Selenium, Total	ug/L	MW-36A	11/11/2013	yes	10.0000	ND				
Selenium, Total	ug/L	MW-36A	05/13/2014	yes	10.0000	ND				
Selenium, Total	ug/L	MW-36A	11/12/2014	yes	10.0000	ND				
Selenium, Total	ug/L	MW-36A	05/27/2015	yes	10.0000	ND				
Selenium, Total	ug/L	MW-36A	11/18/2015	yes	10.0000	ND				
Selenium, Total	ug/L	MW-36A	06/16/2016	yes	46.0000		yes			*
Selenium, Total	ug/L	MW-36A	11/16/2016	yes	10.0000	ND				
Selenium, Total	ug/L	MW-36A	05/30/2017	yes	38.0000		yes			*
Selenium, Total	ug/L	MW-36A	11/21/2017	yes	10.0000	ND				
Selenium, Total	ug/L	MW-36A	05/31/2018	yes	10.0000	ND				
Selenium, Total	ug/L	MW-36A	10/31/2018	yes	10.0000	ND				
Selenium, Total	ug/L	MW-36A	10/15/2019	yes	10.0000	ND				
Selenium, Total	ug/L	MW-36A	05/03/2021		10.0000	ND				
Selenium, Total	ug/L	MW-36A	01/13/2022		10.0000	ND				
Selenium, Total	ug/L	MW-36A	05/17/2022		10.0000	ND				
Selenium, Total	ug/L	MW-36A	10/17/2022		10.0000	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	
Selenium, Total	ug/L	MW-36A	05/22/2023		10.0000	ND				
Selenium, Total	ug/L	MW-36A	05/12/2025		10.0000	ND				
Silver, Total	ug/L	MW-36A	04/27/2009	yes	10.0000	ND				
Silver, Total	ug/L	MW-36A	10/26/2009	yes	10.0000	ND				
Silver, Total	ug/L	MW-36A	12/17/2009	yes	10.0000	ND				
Silver, Total	ug/L	MW-36A	04/13/2010	yes	10.0000	ND				
Silver, Total	ug/L	MW-36A	05/18/2010	yes	10.0000	ND				
Silver, Total	ug/L	MW-36A	06/21/2010	yes	10.0000	ND				
Silver, Total	ug/L	MW-36A	08/18/2010	yes	10.0000	ND				
Silver, Total	ug/L	MW-36A	10/18/2010	yes	10.0000	ND				
Silver, Total	ug/L	MW-36A	05/10/2011	yes	10.0000	ND				
Silver, Total	ug/L	MW-36A	10/19/2011	yes	10.0000	ND				
Silver, Total	ug/L	MW-36A	04/24/2012	yes	10.0000	ND				
Silver, Total	ug/L	MW-36A	10/25/2012	yes	10.0000	ND				
Silver, Total	ug/L	MW-36A	05/07/2013	yes	10.0000	ND				
Silver, Total	ug/L	MW-36A	11/11/2013	yes	10.0000	ND				
Silver, Total	ug/L	MW-36A	05/13/2014	yes	10.0000	ND				
Silver, Total	ug/L	MW-36A	11/12/2014	yes	10.0000	ND				
Silver, Total	ug/L	MW-36A	05/27/2015	yes	10.0000	ND				
Silver, Total	ug/L	MW-36A	11/18/2015	yes	10.0000	ND				
Silver, Total	ug/L	MW-36A	06/16/2016	yes	10.0000	ND				
Silver, Total	ug/L	MW-36A	11/16/2016	yes	10.0000	ND				
Silver, Total	ug/L	MW-36A	05/30/2017	yes	10.0000	ND				
Silver, Total	ug/L	MW-36A	11/21/2017	yes	10.0000	ND				
Silver, Total	ug/L	MW-36A	05/31/2018	yes	10.0000	ND				
Silver, Total	ug/L	MW-36A	10/31/2018	yes	10.0000	ND				
Silver, Total	ug/L	MW-36A	10/15/2019	yes	10.0000	ND				
Silver, Total	ug/L	MW-36A	05/03/2021		10.0000	ND				
Silver, Total	ug/L	MW-36A	01/13/2022		10.0000	ND				
Silver, Total	ug/L	MW-36A	05/17/2022		10.0000	ND				
Silver, Total	ug/L	MW-36A	10/17/2022		10.0000	ND				
Silver, Total	ug/L	MW-36A	05/22/2023		10.0000	ND				
Silver, Total	ug/L	MW-36A	05/12/2025		10.0000	ND				
Thallium, Total	ug/L	MW-36A	04/27/2009	yes	2.0000	ND				
Thallium, Total	ug/L	MW-36A	10/26/2009	yes	2.0000	ND				
Thallium, Total	ug/L	MW-36A	12/17/2009	yes	2.0000	ND				
Thallium, Total	ug/L	MW-36A	04/13/2010	yes	2.0000	ND				
Thallium, Total	ug/L	MW-36A	05/18/2010	yes	2.0000	ND				
Thallium, Total	ug/L	MW-36A	06/21/2010	yes	2.0000	ND				
Thallium, Total	ug/L	MW-36A	08/18/2010	yes	2.0000	ND				
Thallium, Total	ug/L	MW-36A	10/18/2010	yes	2.0000	ND				
Thallium, Total	ug/L	MW-36A	05/10/2011	yes	2.0000	ND				
Thallium, Total	ug/L	MW-36A	10/19/2011	yes	2.0000	ND				
Thallium, Total	ug/L	MW-36A	04/24/2012	yes	2.0000	ND				
Thallium, Total	ug/L	MW-36A	10/25/2012	yes	2.0000	ND				
Thallium, Total	ug/L	MW-36A	05/07/2013	yes	2.0000	ND				
Thallium, Total	ug/L	MW-36A	11/11/2013	yes	2.0000	ND				
Thallium, Total	ug/L	MW-36A	05/13/2014	yes	2.0000	ND				
Thallium, Total	ug/L	MW-36A	11/12/2014	yes	2.0000	ND				
Thallium, Total	ug/L	MW-36A	05/27/2015	yes	2.0000	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	
Thallium, Total	ug/L	MW-36A	11/18/2015	yes	2.0000	ND				
Thallium, Total	ug/L	MW-36A	06/16/2016	yes	2.0000	ND				
Thallium, Total	ug/L	MW-36A	11/16/2016	yes	2.0000	ND				
Thallium, Total	ug/L	MW-36A	05/30/2017	yes	2.0000	ND				
Thallium, Total	ug/L	MW-36A	11/21/2017	yes	2.0000	ND				
Thallium, Total	ug/L	MW-36A	05/31/2018	yes	2.0000	ND				
Thallium, Total	ug/L	MW-36A	10/31/2018	yes	2.0000	ND				
Thallium, Total	ug/L	MW-36A	10/15/2019	yes	2.0000	ND				
Thallium, Total	ug/L	MW-36A	05/03/2021		2.0000	ND				
Thallium, Total	ug/L	MW-36A	01/13/2022		2.0000	ND				
Thallium, Total	ug/L	MW-36A	05/17/2022		2.0000	ND				
Thallium, Total	ug/L	MW-36A	10/17/2022		2.0000	ND				
Thallium, Total	ug/L	MW-36A	05/22/2023		2.0000	ND				
Thallium, Total	ug/L	MW-36A	05/12/2025		2.0000	ND				
Vanadium, Total	ug/L	MW-36A	04/27/2009	yes	20.0000	ND				
Vanadium, Total	ug/L	MW-36A	10/26/2009	yes	20.0000	ND				
Vanadium, Total	ug/L	MW-36A	12/17/2009	yes	20.0000	ND				
Vanadium, Total	ug/L	MW-36A	04/13/2010	yes	20.0000	ND				
Vanadium, Total	ug/L	MW-36A	05/18/2010	yes	20.0000	ND				
Vanadium, Total	ug/L	MW-36A	06/21/2010	yes	20.0000	ND				
Vanadium, Total	ug/L	MW-36A	08/18/2010	yes	20.0000	ND				
Vanadium, Total	ug/L	MW-36A	10/18/2010	yes	20.0000	ND				
Vanadium, Total	ug/L	MW-36A	05/10/2011	yes	20.0000	ND				
Vanadium, Total	ug/L	MW-36A	10/19/2011	yes	20.0000	ND				
Vanadium, Total	ug/L	MW-36A	04/24/2012	yes	20.0000	ND				
Vanadium, Total	ug/L	MW-36A	10/25/2012	yes	20.0000	ND				
Vanadium, Total	ug/L	MW-36A	05/07/2013	yes	20.0000	ND				
Vanadium, Total	ug/L	MW-36A	11/11/2013	yes	20.0000	ND				
Vanadium, Total	ug/L	MW-36A	05/13/2014	yes	20.0000	ND				
Vanadium, Total	ug/L	MW-36A	11/12/2014	yes	20.0000	ND				
Vanadium, Total	ug/L	MW-36A	05/27/2015	yes	20.0000	ND				
Vanadium, Total	ug/L	MW-36A	11/18/2015	yes	20.0000	ND				
Vanadium, Total	ug/L	MW-36A	06/16/2016	yes	20.0000	ND				
Vanadium, Total	ug/L	MW-36A	11/16/2016	yes	20.0000	ND				
Vanadium, Total	ug/L	MW-36A	05/30/2017	yes	20.0000	ND				
Vanadium, Total	ug/L	MW-36A	11/21/2017	yes	20.0000	ND				
Vanadium, Total	ug/L	MW-36A	05/31/2018	yes	20.0000	ND				
Vanadium, Total	ug/L	MW-36A	10/31/2018	yes	20.0000	ND				
Vanadium, Total	ug/L	MW-36A	10/15/2019	yes	20.0000	ND				
Vanadium, Total	ug/L	MW-36A	05/03/2021		20.0000	ND				
Vanadium, Total	ug/L	MW-36A	01/13/2022		20.0000	ND				
Vanadium, Total	ug/L	MW-36A	05/17/2022		20.0000	ND				
Vanadium, Total	ug/L	MW-36A	10/17/2022		20.0000	ND				
Vanadium, Total	ug/L	MW-36A	05/22/2023		20.0000	ND				
Vanadium, Total	ug/L	MW-36A	05/12/2025		20.0000	ND				
Zinc, Total	ug/L	MW-36A	04/27/2009	yes	20.0000	ND				
Zinc, Total	ug/L	MW-36A	10/26/2009	yes	20.0000	ND				
Zinc, Total	ug/L	MW-36A	12/17/2009	yes	20.0000	ND				
Zinc, Total	ug/L	MW-36A	04/13/2010	yes	20.0000	ND				
Zinc, Total	ug/L	MW-36A	05/18/2010	yes	20.0000	ND				

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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	
Zinc, Total	ug/L	MW-36A	06/21/2010	yes	20.0000	ND				
Zinc, Total	ug/L	MW-36A	08/18/2010	yes	20.0000	ND				
Zinc, Total	ug/L	MW-36A	10/18/2010	yes	20.0000	ND				
Zinc, Total	ug/L	MW-36A	05/10/2011	yes	20.0000	ND				
Zinc, Total	ug/L	MW-36A	10/19/2011	yes	20.0000	ND				
Zinc, Total	ug/L	MW-36A	04/24/2012	yes	20.0000	ND				
Zinc, Total	ug/L	MW-36A	10/25/2012	yes	20.0000	ND				
Zinc, Total	ug/L	MW-36A	05/07/2013	yes	20.0000	ND				
Zinc, Total	ug/L	MW-36A	11/11/2013	yes	20.0000	ND				
Zinc, Total	ug/L	MW-36A	05/13/2014	yes	20.0000	ND				
Zinc, Total	ug/L	MW-36A	11/12/2014	yes	20.0000	ND				
Zinc, Total	ug/L	MW-36A	05/27/2015	yes	20.0000	ND				
Zinc, Total	ug/L	MW-36A	11/18/2015	yes	20.0000	ND				
Zinc, Total	ug/L	MW-36A	06/16/2016	yes	20.0000	ND				
Zinc, Total	ug/L	MW-36A	11/16/2016	yes	20.0000	ND				
Zinc, Total	ug/L	MW-36A	05/30/2017	yes	20.0000	ND				
Zinc, Total	ug/L	MW-36A	11/21/2017	yes	20.0000	ND				
Zinc, Total	ug/L	MW-36A	05/31/2018	yes	20.0000	ND				
Zinc, Total	ug/L	MW-36A	10/31/2018	yes	20.0000	ND				
Zinc, Total	ug/L	MW-36A	10/15/2019	yes	20.0000	ND				
Zinc, Total	ug/L	MW-36A	05/03/2021		50.0000	ND				
Zinc, Total	ug/L	MW-36A	01/13/2022		50.0000	ND				
Zinc, Total	ug/L	MW-36A	05/17/2022		50.0000	ND				
Zinc, Total	ug/L	MW-36A	10/17/2022		50.0000	ND				
Zinc, Total	ug/L	MW-36A	05/22/2023		50.0000	ND				
Zinc, Total	ug/L	MW-36A	05/12/2025		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				
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				

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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-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				
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					**
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					**

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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-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		**
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				
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				

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Table 2

Analytical Data and CUSUM Summary

Constituent	Units	Well	Date	Background	Result		Outlier	CUSUM	Adjusted	
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				
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				
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				

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Table 2

Analytical Data and CUSUM Summary

Constituent	Units	Well	Date	Background	Result		Outlier	CUSUM	Adjusted	
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				
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				
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				
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				

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Table 2

Analytical Data and CUSUM Summary

Constituent	Units	Well	Date	Background	Result		Outlier	CUSUM	Adjusted	
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		**
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				
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					

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Table 2

Analytical Data and CUSUM Summary

Constituent	Units	Well	Date	Background	Result		Outlier	CUSUM	Adjusted	
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				
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				
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				

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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	
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				
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		
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		**
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				

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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	
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				
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				

* - 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	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				
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				
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				

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Table 2

Analytical Data and CUSUM Summary

Constituent	Units	Well	Date	Background	Result		Outlier	CUSUM	Adjusted	
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				
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				
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				
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				

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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-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				
Zinc, Total	ug/L	MW-37A	05/12/2025		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				

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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-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				
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				
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				

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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	
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				
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					
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		
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				

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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	
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				
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				
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				

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Table 2

Analytical Data and CUSUM Summary

Constituent	Units	Well	Date	Background	Result		Outlier	CUSUM	Adjusted	
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				
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				
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				

* - Outlier for that well and constituent.
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Table 2

Analytical Data and CUSUM Summary

Constituent	Units	Well	Date	Background	Result		Outlier	CUSUM	Adjusted	
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				
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	***
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				
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				

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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-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				
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				
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				

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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-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				
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					
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		

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Table 2

Analytical Data and CUSUM Summary

Constituent	Units	Well	Date	Background	Result		Outlier	CUSUM	Adjusted	
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		
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				
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				
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				

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Table 2

Analytical Data and CUSUM Summary

Constituent	Units	Well	Date	Background	Result		Outlier	CUSUM	Adjusted	
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				
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				
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				

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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	
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				
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				
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				

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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	
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				
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				
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				

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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-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				
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				
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				
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					

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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	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					
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		
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				

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Table 2

Analytical Data and CUSUM Summary

Constituent	Units	Well	Date	Background	Result		Outlier	CUSUM	Adjusted	
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				
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				
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				
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				

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Table 2

Analytical Data and CUSUM Summary

Constituent	Units	Well	Date	Background	Result		Outlier	CUSUM	Adjusted	
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				
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				
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				
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				

* - 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-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				
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				
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				

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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	05/17/2022		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				
Lead, Total	ug/L	MW-39A	05/12/2025		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				
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				

* - 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-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				
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				
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				
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				

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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-39A	08/01/2013	yes	2.0000	ND				
Thallium, Total	ug/L	MW-39A	09/25/2013	yes	2.0000	ND				
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				
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				

* - 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.
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Table 2

Analytical Data and CUSUM Summary

Constituent	Units	Well	Date	Background	Result		Outlier	CUSUM	Adjusted	
Vanadium, Total	ug/L	MW-39A	05/17/2022		20.0000	ND				
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				
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				
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				
Antimony, Total	ug/L	MW-40A	10/31/2018	yes	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-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				
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				
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					
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					

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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-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		
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				
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				
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				

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Table 2

Analytical Data and CUSUM Summary

Constituent	Units	Well	Date	Background	Result		Outlier	CUSUM	Adjusted	
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				
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				
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	***

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**** - ND value replaced with manual RL.
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Table 2

Analytical Data and CUSUM Summary

Constituent	Units	Well	Date	Background	Result		Outlier	CUSUM	Adjusted	
Cobalt, Total	ug/L	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				
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				
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				
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				

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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-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				
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				
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				
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				

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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-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				
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				
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				

* - 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	
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				
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				
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				

* - 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	
Vanadium, Total	ug/L	MW-40A	10/02/2024		20.0000	ND				
Vanadium, Total	ug/L	MW-40A	05/12/2025		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				

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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
Selenium, Total	ug/L	MW-36A	06/16/2016	46.0000		04/27/2009-10/15/2019	25	0.4969
Selenium, Total	ug/L	MW-36A	05/30/2017	38.0000		04/27/2009-10/15/2019	25	0.4969

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

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
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

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	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
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

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	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
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		93.0	2.0	ug/L
1,1-Dichloroethane	MW-12A	12/17/2009		85.0	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
1,2-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
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

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	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
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
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
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

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	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
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
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		170.00	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	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
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

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	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
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		7.70	2.00	ug/L
trans-1,2-Dichloroethene	MW-12A	12/17/2009		6.80	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
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
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

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-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
Vinyl chloride	MW-12A	10/26/2009		92.00	1.00	ug/L
Vinyl chloride	MW-12A	12/17/2009		39.00	2.00	ug/L
Vinyl chloride	MW-12A	12/17/2009		29.00	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
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
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

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-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	10	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
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

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	10/11/2001		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
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
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
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

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	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
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
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

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

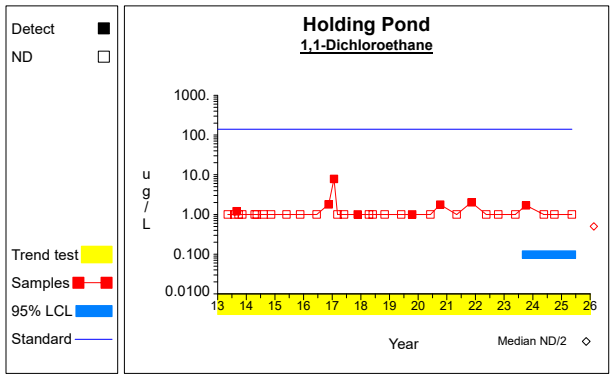
Table 1

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

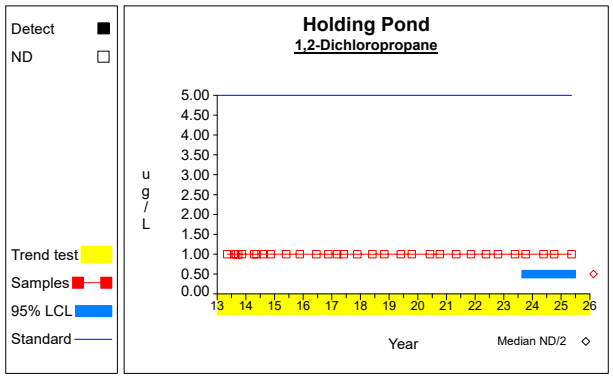
Constituent	Units	Well	N	Mean	SD	Factor	95% LCL	95% UCL	Standard	Trend	
1,1-Dichloroethane	ug/L	Holding Pond	4	0.798	0.595	1.176	0.098	1.497	140.000		
1,2-Dichloropropane	ug/L	Holding Pond	4	0.500	0.000	1.176	0.500	0.500	5.000		
Acetone	ug/L	Holding Pond	4	5.000	0.000	1.176	5.000	5.000	6300.000		
Benzene	ug/L	Holding Pond	4	0.500	0.000	1.176	0.500	0.500	5.000		
Chloroethane	ug/L	Holding Pond	4	0.500	0.000	1.176	0.500	0.500	2800.000		
cis-1,2-Dichloroethene	ug/L	Holding Pond	4	1.040	1.080	1.176	0.000	2.310	70.000		
trans-1,2-Dichloroethene	ug/L	Holding Pond	4	0.500	0.000	1.176	0.500	0.500	100.000		
Trichloroethene	ug/L	Holding Pond	4	0.500	0.000	1.176	0.500	0.500	5.000		
Vinyl chloride	ug/L	Holding Pond	4	0.500	0.000	1.176	0.500	0.500	2.000		
1,1-Dichloroethane	ug/L	MW-12A	4	22.125	6.808	1.176	14.117	30.133	140.000	dec	
1,2-Dichloropropane	ug/L	MW-12A	4	1.438	0.401	1.176	0.966	1.909	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	2.008	0.750	1.176	1.125	2.890	5.000		
Chloroethane	ug/L	MW-12A	4	11.380	2.741	1.176	8.155	14.605	2800.000	dec	
cis-1,2-Dichloroethene	ug/L	MW-12A	4	26.175	10.320	1.176	14.036	38.314	70.000	dec	
trans-1,2-Dichloroethene	ug/L	MW-12A	4	3.145	1.060	1.176	1.898	4.392	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	18.493	6.939	1.176	10.331	26.654	2.000	dec	**
1,1-Dichloroethane	ug/L	MW-13A	4	0.500	0.000	1.176	0.500	0.500	140.000		
1,2-Dichloropropane	ug/L	MW-13A	4	0.500	0.000	1.176	0.500	0.500	5.000		
Acetone	ug/L	MW-13A	4	5.000	0.000	1.176	5.000	5.000	6300.000		
Benzene	ug/L	MW-13A	4	0.500	0.000	1.176	0.500	0.500	5.000		
Chloroethane	ug/L	MW-13A	4	0.500	0.000	1.176	0.500	0.500	2800.000		
cis-1,2-Dichloroethene	ug/L	MW-13A	4	0.500	0.000	1.176	0.500	0.500	70.000		
trans-1,2-Dichloroethene	ug/L	MW-13A	4	0.500	0.000	1.176	0.500	0.500	100.000		
Trichloroethene	ug/L	MW-13A	4	0.500	0.000	1.176	0.500	0.500	5.000		
Vinyl chloride	ug/L	MW-13A	4	0.500	0.000	1.176	0.500	0.500	2.000		
1,1-Dichloroethane	ug/L	MW-19A	4	0.500	0.000	1.176	0.500	0.500	140.000		
1,2-Dichloropropane	ug/L	MW-19A	4	0.500	0.000	1.176	0.500	0.500	5.000		
Acetone	ug/L	MW-19A	4	5.000	0.000	1.176	5.000	5.000	6300.000		
Benzene	ug/L	MW-19A	4	0.500	0.000	1.176	0.500	0.500	5.000		
Chloroethane	ug/L	MW-19A	4	0.500	0.000	1.176	0.500	0.500	2800.000		
cis-1,2-Dichloroethene	ug/L	MW-19A	4	0.500	0.000	1.176	0.500	0.500	70.000		
trans-1,2-Dichloroethene	ug/L	MW-19A	4	0.500	0.000	1.176	0.500	0.500	100.000		
Trichloroethene	ug/L	MW-19A	4	0.500	0.000	1.176	0.500	0.500	5.000		
Vinyl chloride	ug/L	MW-19A	4	0.500	0.000	1.176	0.500	0.500	2.000		
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	5.000	0.000	1.176	5.000	5.000	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	1.810	0.681	1.176	1.009	2.611	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	3.748	1.022	1.176	2.545	4.950	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	3.310	0.575	1.176	2.633	3.987	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	1.480	0.293	1.176	1.135	1.825	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

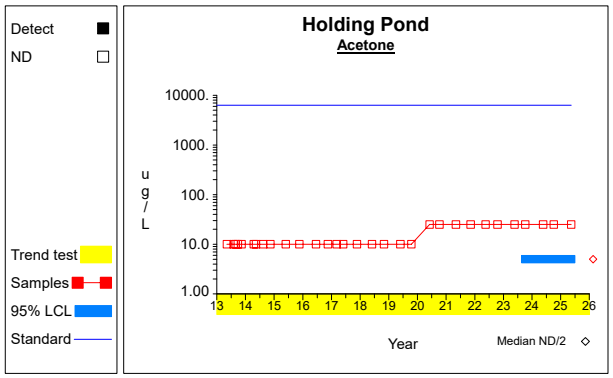
Confidence Limits (Assessment)



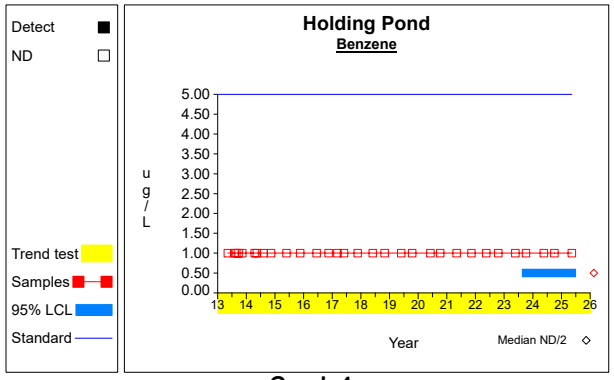
Graph 1



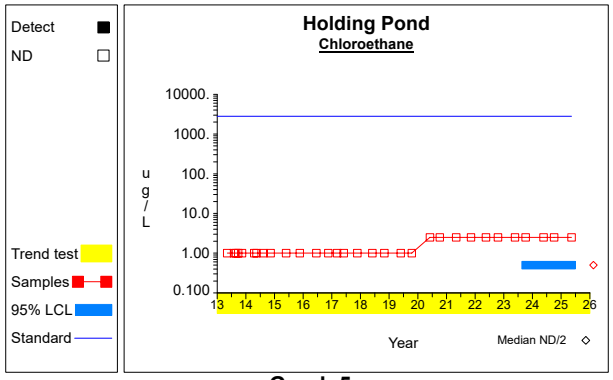
Graph 2



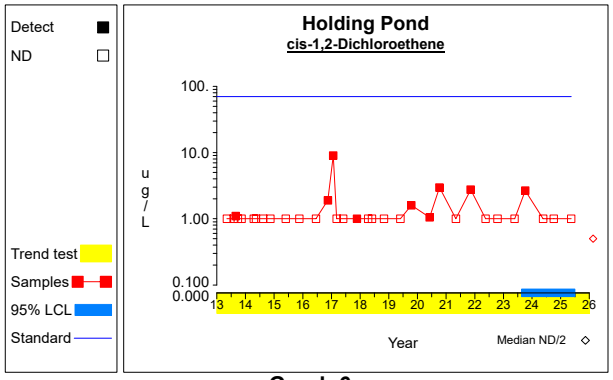
Graph 3



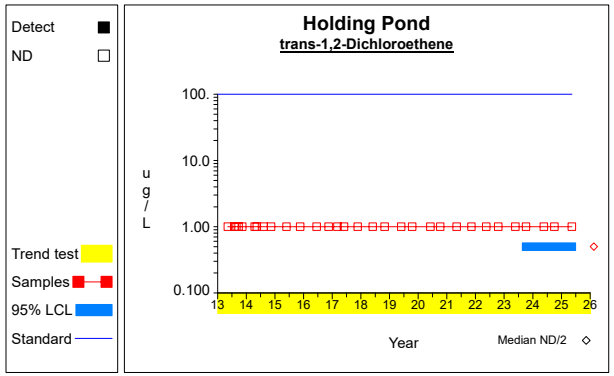
Graph 4



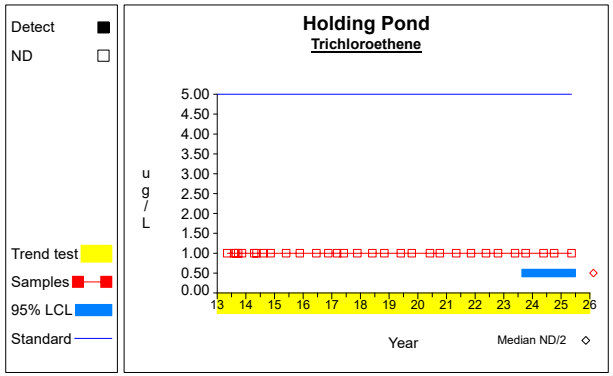
Graph 5



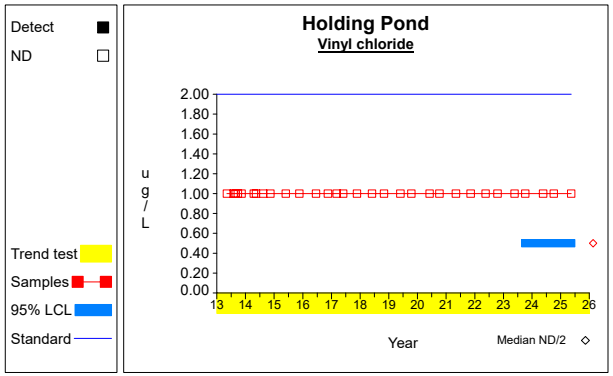
Graph 6



Graph 7



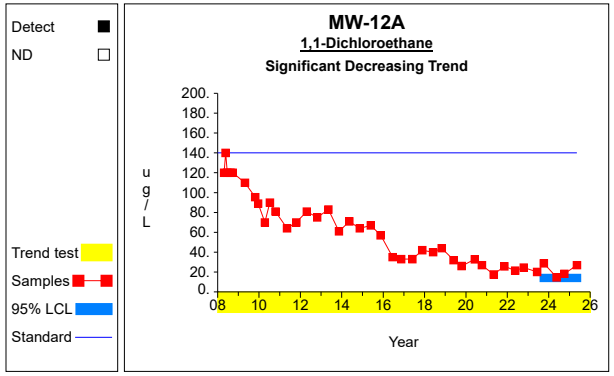
Graph 8



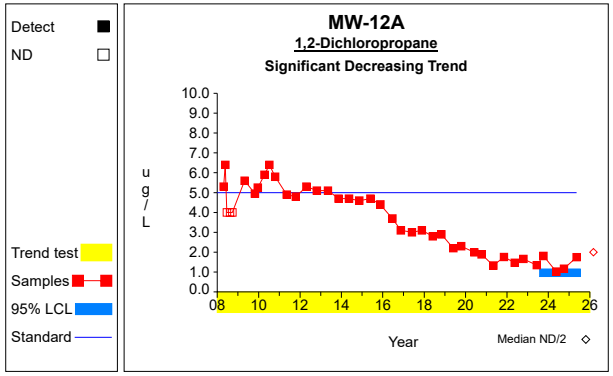
Graph 9

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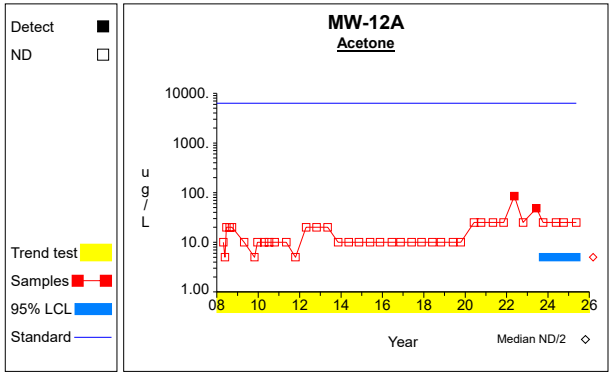
Confidence Limits (Assessment)



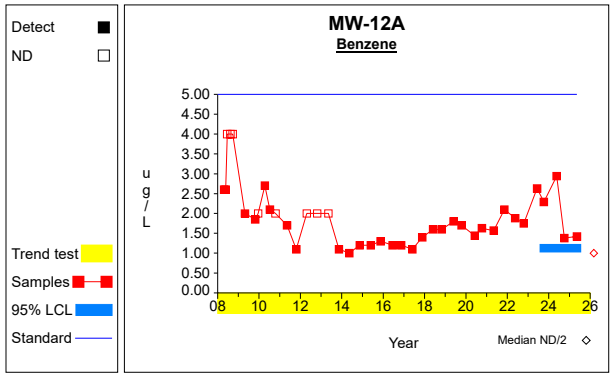
Graph 10



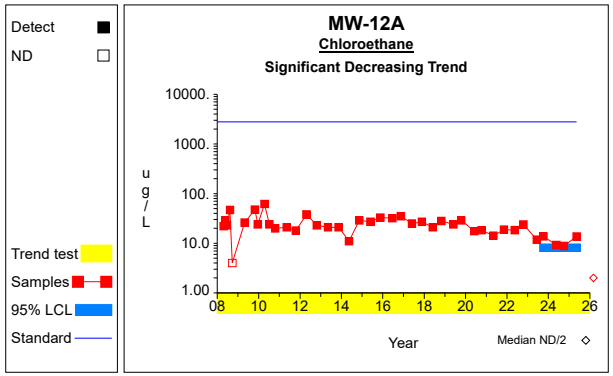
Graph 11



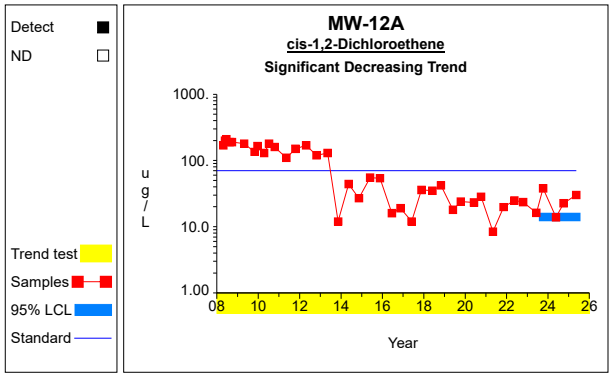
Graph 12



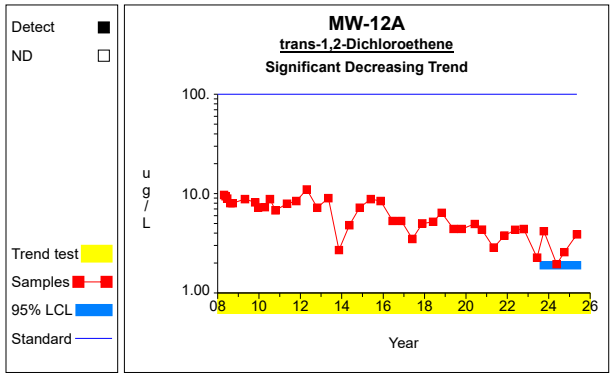
Graph 13



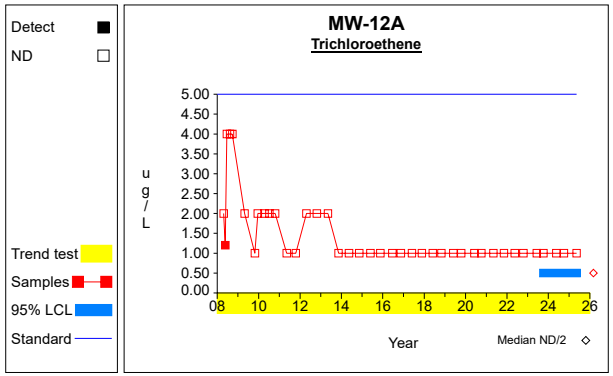
Graph 14



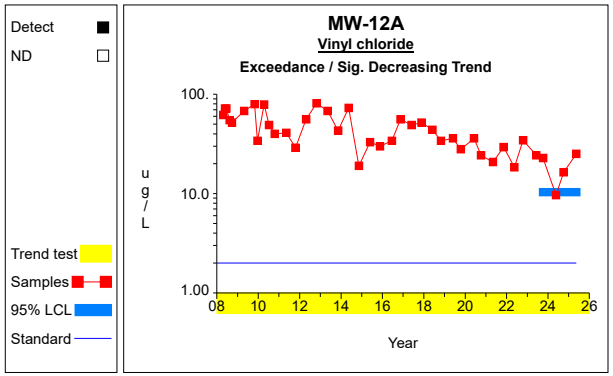
Graph 15



Graph 16



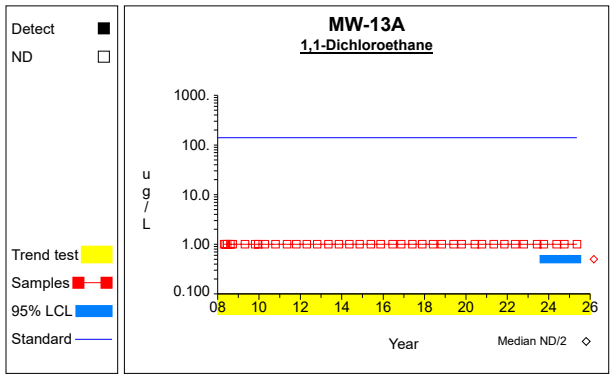
Graph 17



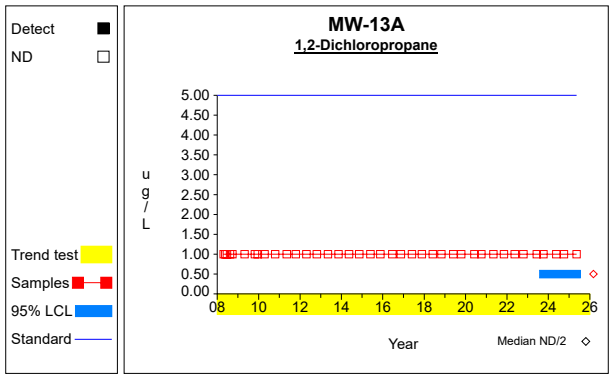
Graph 18

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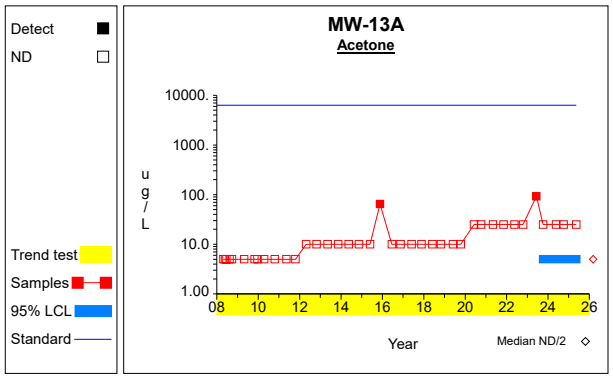
Confidence Limits (Assessment)



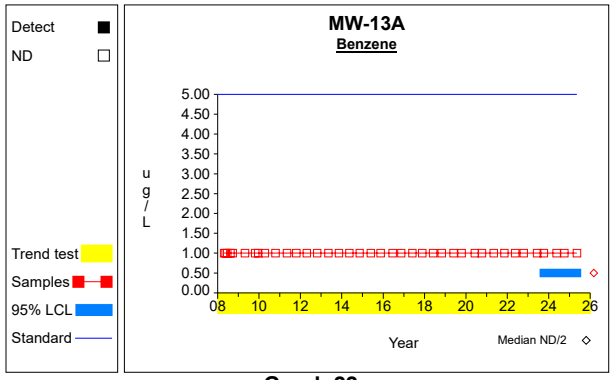
Graph 19



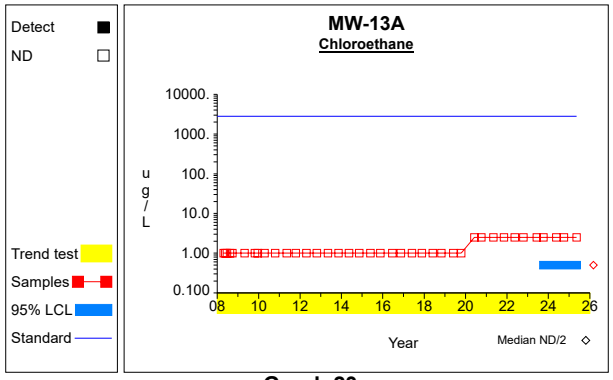
Graph 20



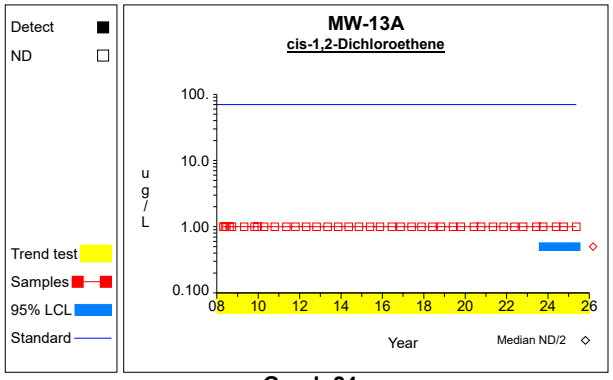
Graph 21



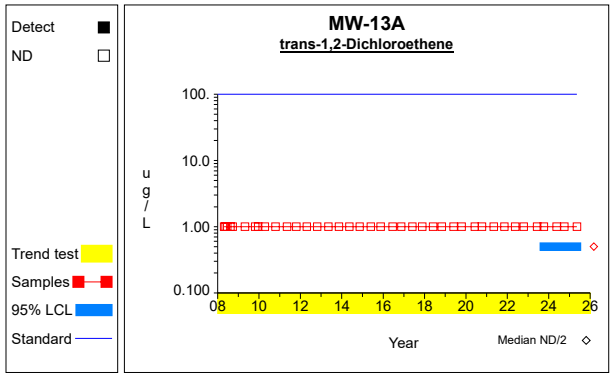
Graph 22



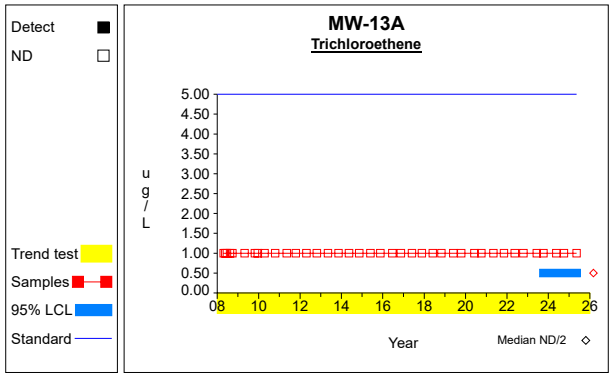
Graph 23



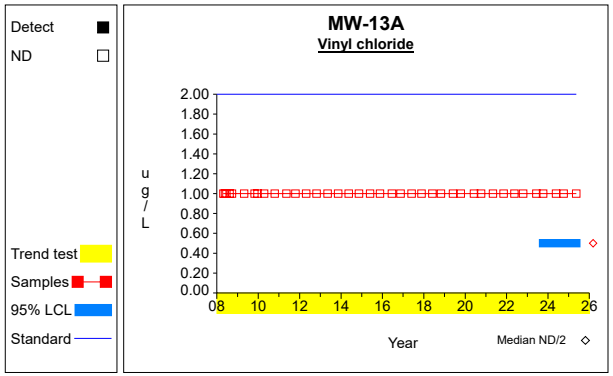
Graph 24



Graph 25



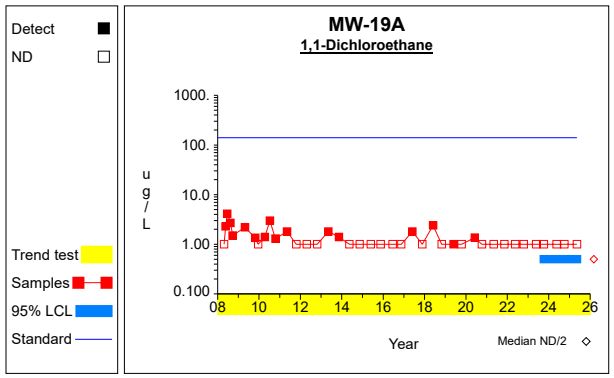
Graph 26



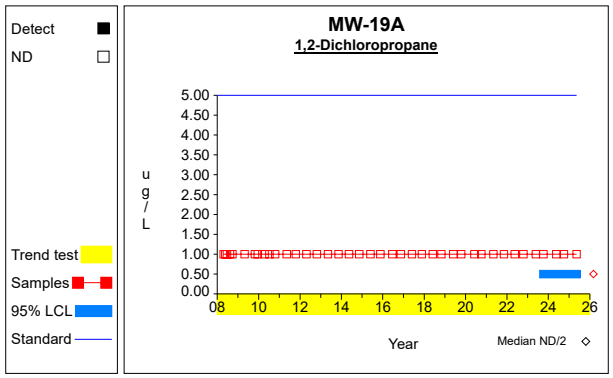
Graph 27

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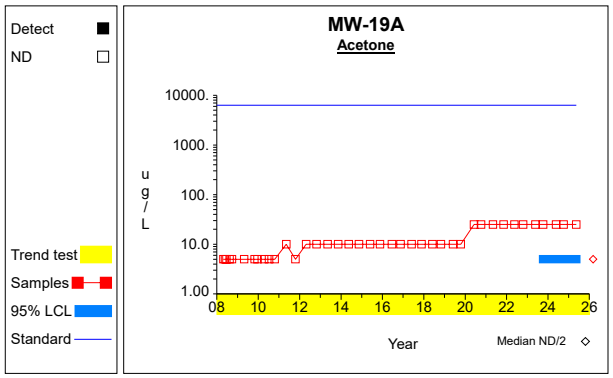
Confidence Limits (Assessment)



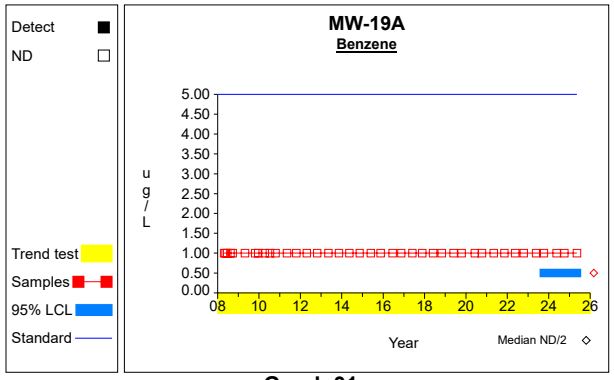
Graph 28



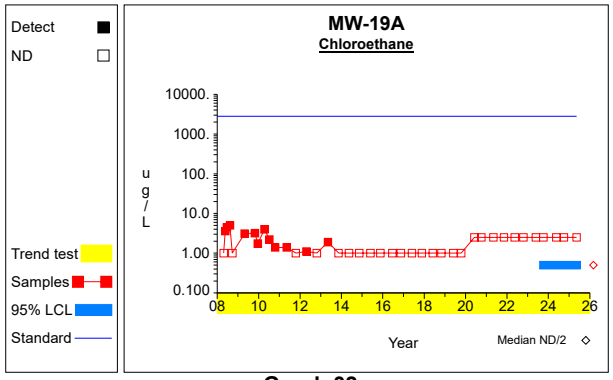
Graph 29



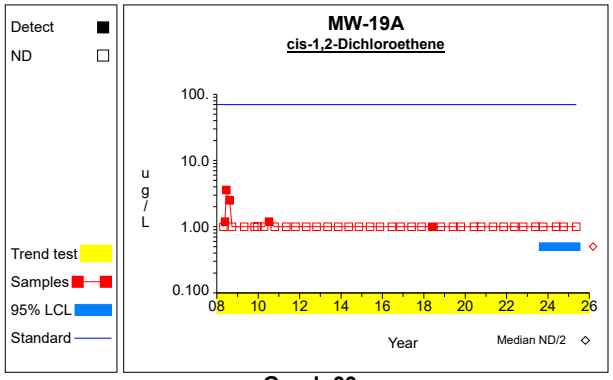
Graph 30



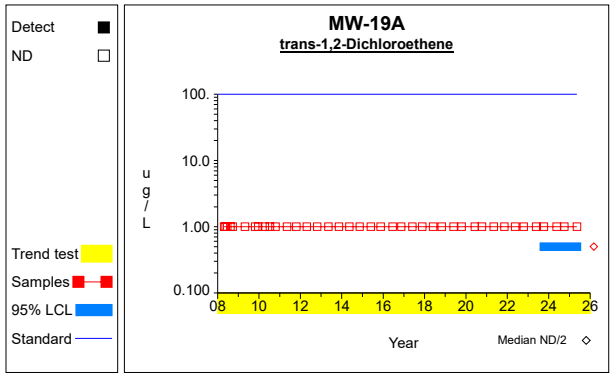
Graph 31



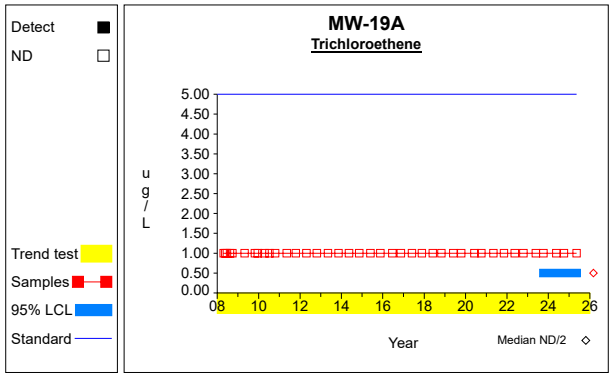
Graph 32



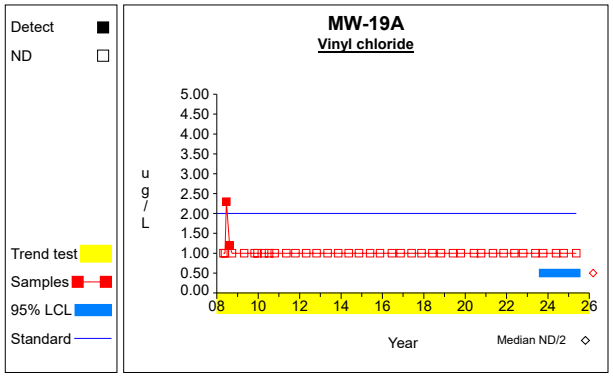
Graph 33



Graph 34



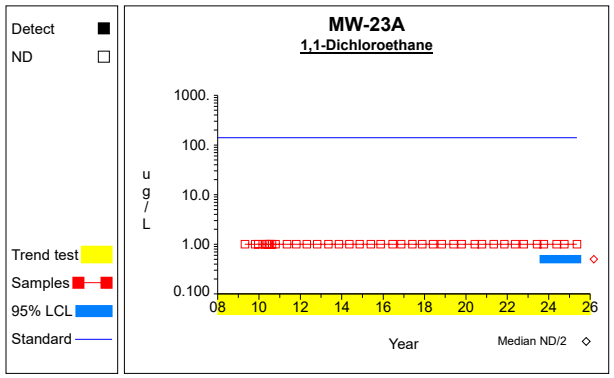
Graph 35



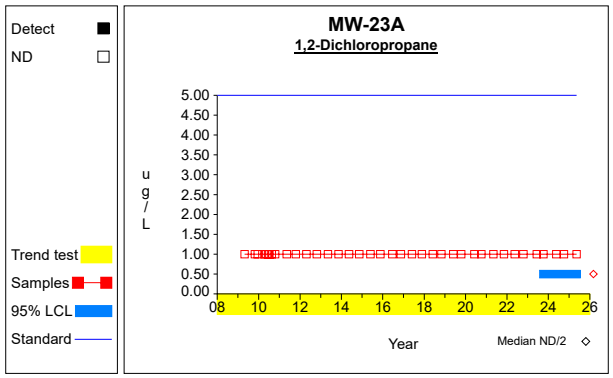
Graph 36

Prepared by: Otter Creek Environmental

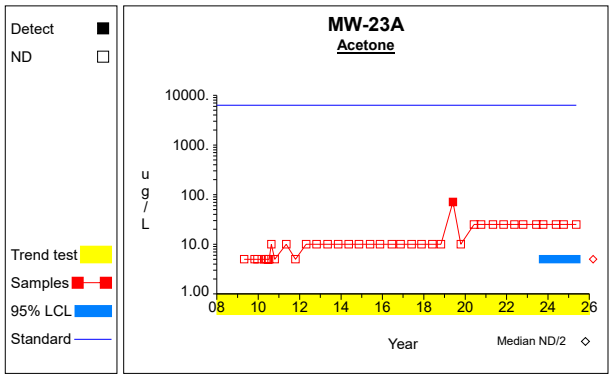
Confidence Limits (Assessment)



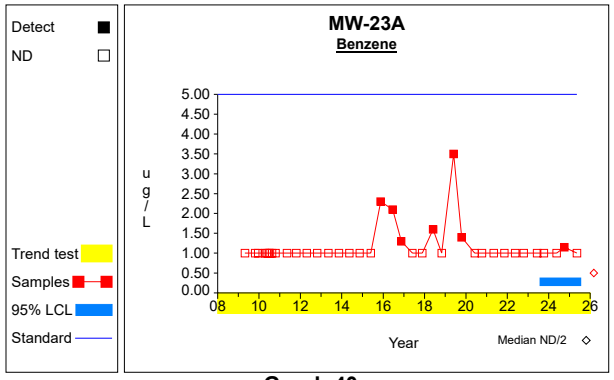
Graph 37



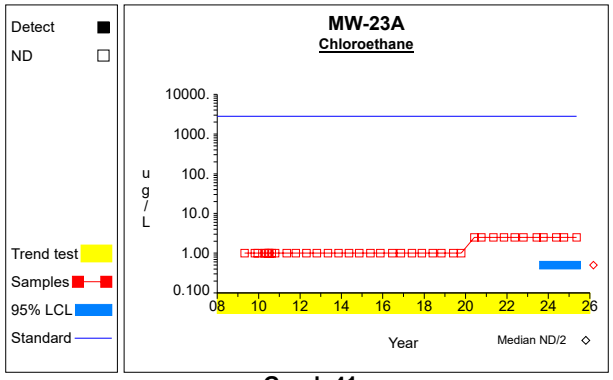
Graph 38



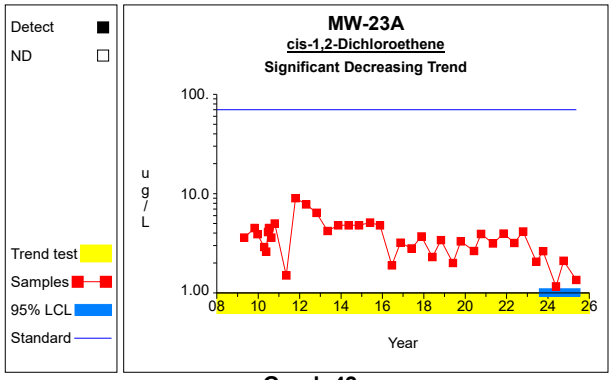
Graph 39



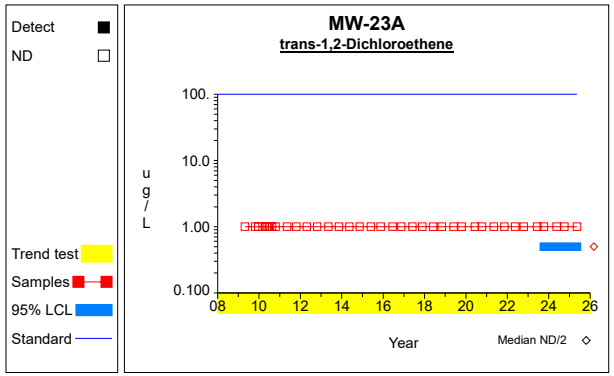
Graph 40



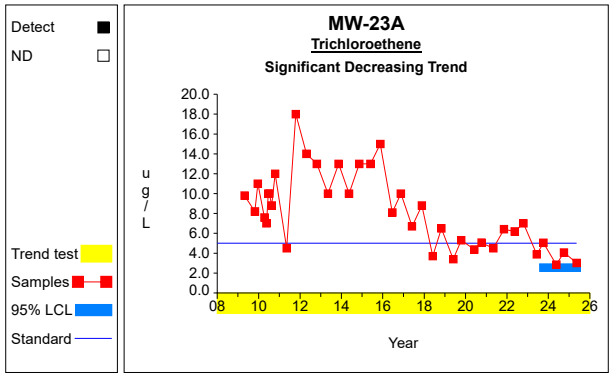
Graph 41



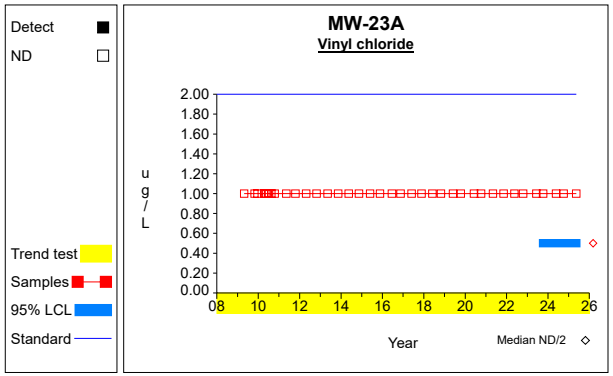
Graph 42



Graph 43



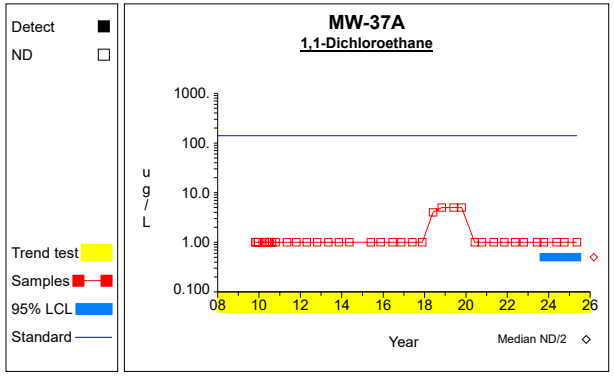
Graph 44



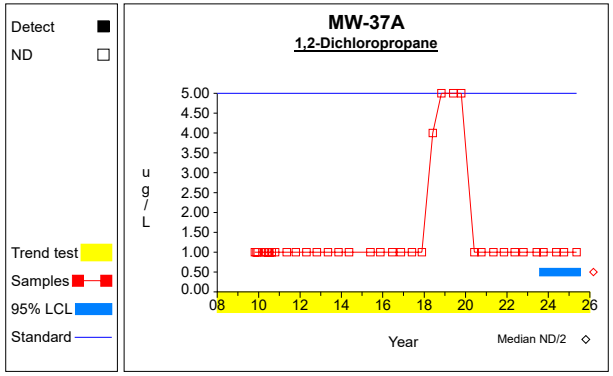
Graph 45

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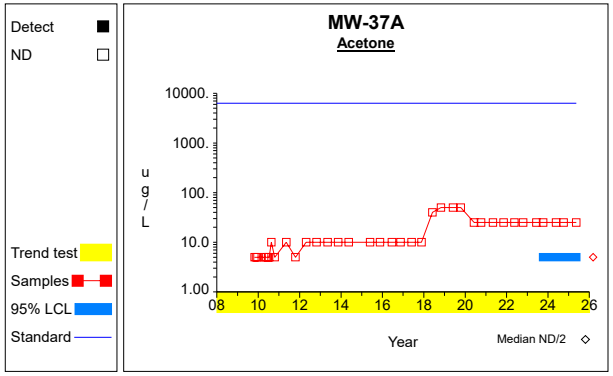
Confidence Limits (Assessment)



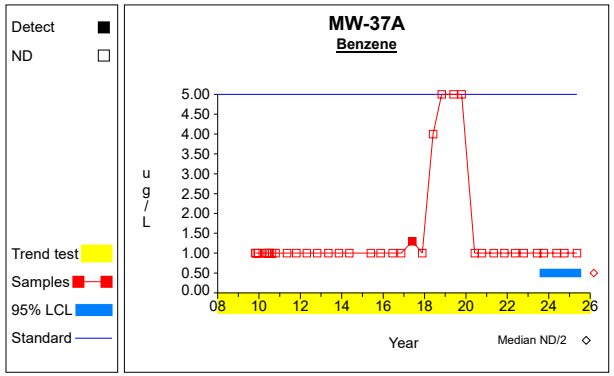
Graph 46



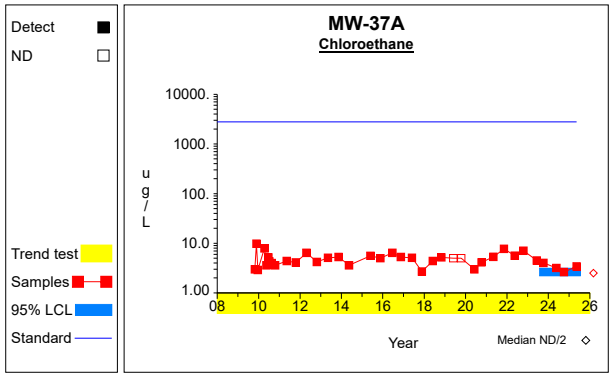
Graph 47



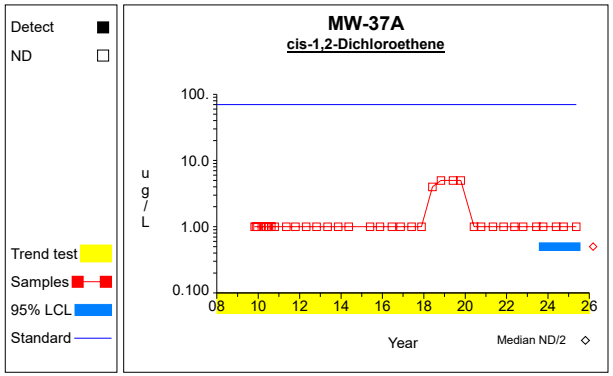
Graph 48



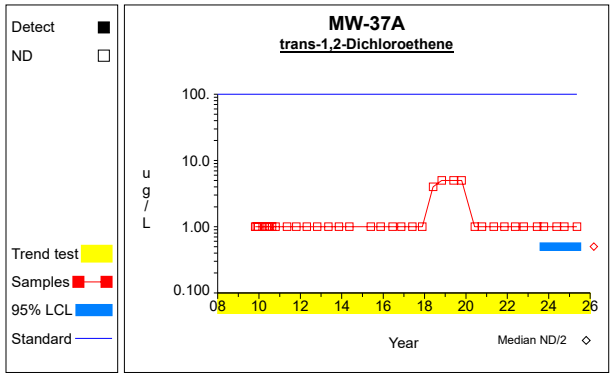
Graph 49



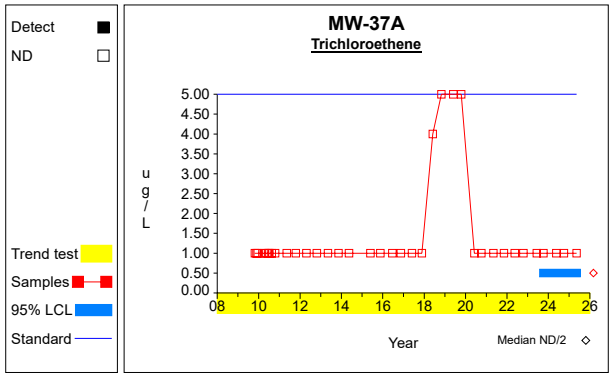
Graph 50



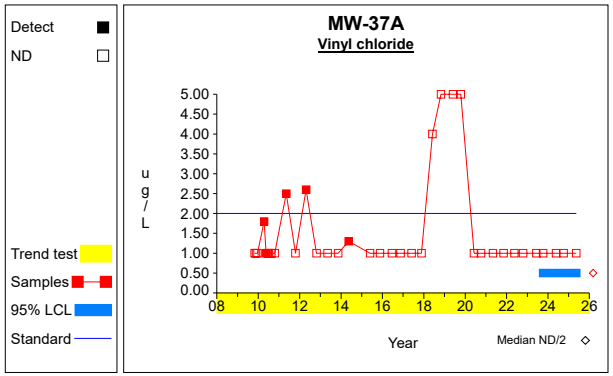
Graph 51



Graph 52



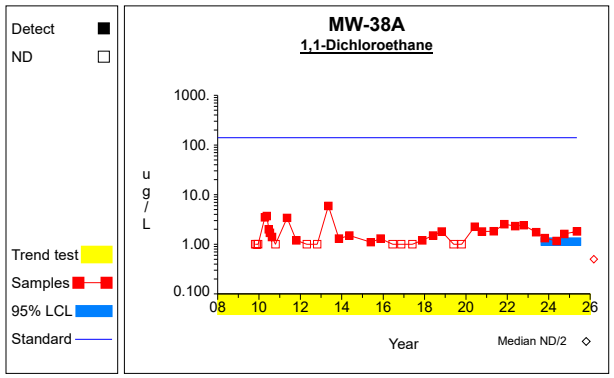
Graph 53



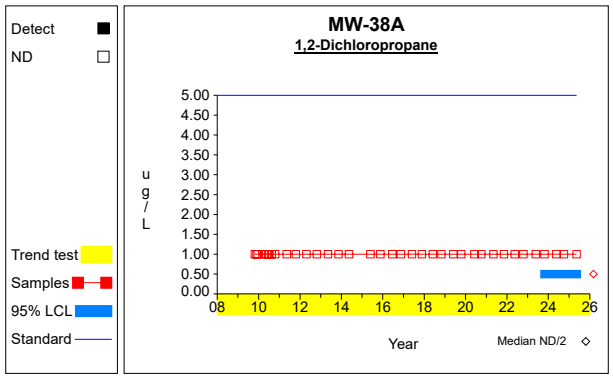
Graph 54

Prepared by: Otter Creek Environmental

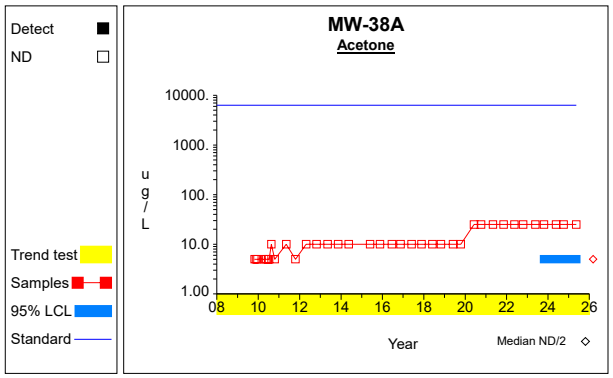
Confidence Limits (Assessment)



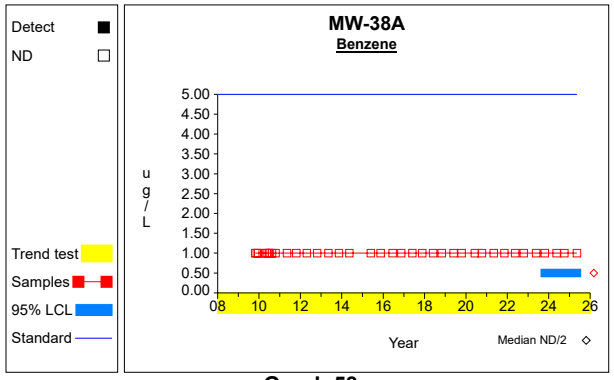
Graph 55



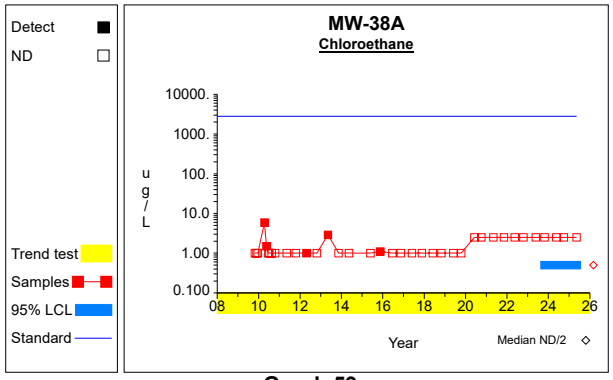
Graph 56



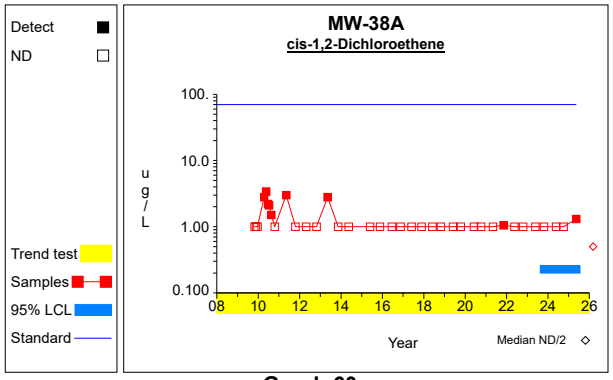
Graph 57



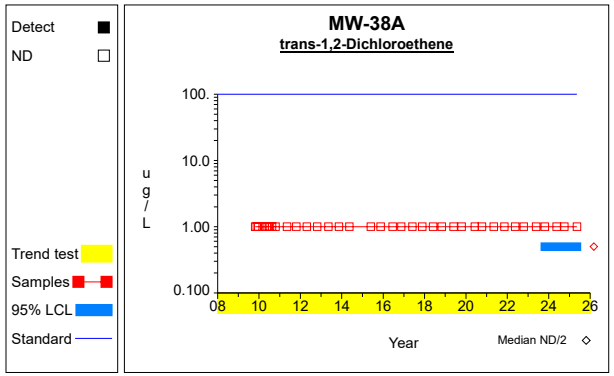
Graph 58



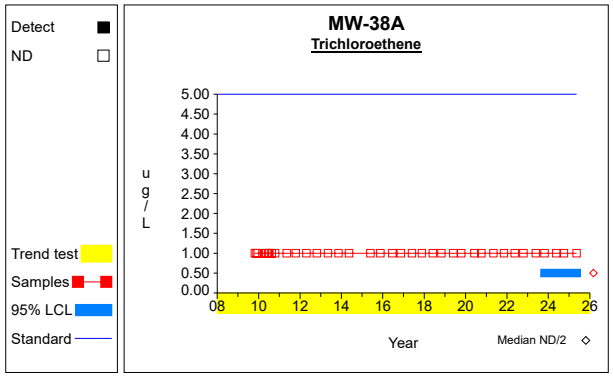
Graph 59



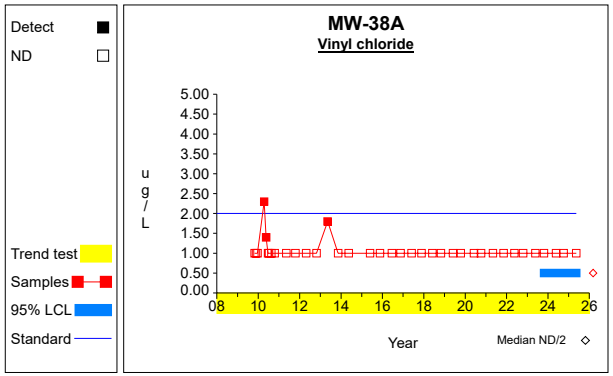
Graph 60



Graph 61



Graph 62



Graph 63

Worksheet 6 - Assessment Monitoring
1,1-Dichloroethane (ug/L) at Holding Pond

Step	Equation	Description
1	$\overline{X}$ = **sum[X]** / **N** = **3.19** / **4** = **0.798**	Compute the mean of the last 4 measurements.
2	S = ((**sum[X^2]** - **sum[X]**^{2}/**N**) / (**N**-1))^{½} = ((**3.606** - **10.176**/**4**) / (**4**-1))^{½} = **0.595**	Compute sd of the last 4 measurements.
3	LCL = $\overline{\mathbf{X}}$ - **tS**/**N**^{½} = **0.798** - **2.353** * **0.595**/**4**^{½} = **0.098**	Compute lower confidence limit for the mean of the last 4 measurements.
4	UCL = $\overline{\mathbf{X}}$ + **tS**/**N**^{½} = **0.798** + **2.353** * **0.595**/**4**^{½} = **1.497**	Compute upper confidence limit for the mean of the last 4 measurements.
5	N' = **N** * (**N**-1) / 2 = **33** * (**33**-1) / 2 = **528**	Number of sample pairs during trend detection period.
6	S = **0.0**	Sen's estimator of trend.
7	var(S) = **2331.0**	Variance estimate for slope.
8	M(S) = (**N**' ± **Z**$_{.995}$ * **var(S)**^{½}) / 2 = (**528** ± **2.576** * **2331.0**^{½}) / 2 = [**201.815**, **326.185**]	Ordinal positions for two-sided lower confidence limits for slope. The LCL and UCL are the Mth 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 Holding Pond

Step	Equation	Description
1	$\overline{X}$ = **sum[X]** / **N** = **2.0** / **4** = **0.5**	Compute the mean of the last 4 measurements.
2	S = ((**sum[X^2]** - **sum[X]**^{2}/**N**) / (**N**-1))^{½} = ((**1.0** - **4.0**/**4**) / (**4**-1))^{½} = **0.0**	Compute sd of the last 4 measurements.
3	LCL = $\overline{\mathbf{X}}$ - **tS**/**N**^{½} = **0.5** - **2.353** * **0.0**/**4**^{½} = **0.5**	Compute lower confidence limit for the mean of the last 4 measurements.
4	UCL = $\overline{\mathbf{X}}$ + **tS**/**N**^{½} = **0.5** + **2.353** * **0.0**/**4**^{½} = **0.5**	Compute upper confidence limit for the mean of the last 4 measurements.
5	N' = **N** * (**N**-1) / 2 = **31** * (**31**-1) / 2 = **465**	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 = (**465** ± **2.576** * **0.0**^{½}) / 2 = [**232.5**, **232.5**]	Ordinal positions for two-sided lower confidence limits for slope. The LCL and UCL are the Mth 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 Holding Pond

Step	Equation	Description
1	$\overline{X}$ = **sum[X]** / **N** = **20.0** / **4** = **5.0**	Compute the mean of the last 4 measurements.
2	S = ((**sum[X^2]** - **sum[X]**^{2}/**N**) / (**N**-1))^{½} = ((**100.0** - **400.0**/**4**) / (**4**-1))^{½} = **0.0**	Compute sd of the last 4 measurements.
3	LCL = $\overline{\mathbf{X}}$ - **tS**/**N**^{½} = **5.0** - **2.353** * **0.0**/**4**^{½} = **5.0**	Compute lower confidence limit for the mean of the last 4 measurements.
4	UCL = $\overline{\mathbf{X}}$ + **tS**/**N**^{½} = **5.0** + **2.353** * **0.0**/**4**^{½} = **5.0**	Compute upper confidence limit for the mean of the last 4 measurements.
5	N' = **N** * (**N**-1) / 2 = **31** * (**31**-1) / 2 = **465**	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 = (**465** ± **2.576** * **0.0**^{½}) / 2 = [**232.5**, **232.5**]	Ordinal positions for two-sided lower confidence limits for slope. The LCL and UCL are the Mth 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 Holding Pond

Step	Equation	Description
1	$\overline{X}$ = **sum[X]** / **N** = **2.0** / **4** = **0.5**	Compute the mean of the last 4 measurements.
2	S = ((**sum[X^2]** - **sum[X]**^{2}/**N**) / (**N**-1))^{½} = ((**1.0** - **4.0**/**4**) / (**4**-1))^{½} = **0.0**	Compute sd of the last 4 measurements.
3	LCL = $\overline{\mathbf{X}}$ - **tS**/**N**^{½} = **0.5** - **2.353** * **0.0**/**4**^{½} = **0.5**	Compute lower confidence limit for the mean of the last 4 measurements.
4	UCL = $\overline{\mathbf{X}}$ + **tS**/**N**^{½} = **0.5** + **2.353** * **0.0**/**4**^{½} = **0.5**	Compute upper confidence limit for the mean of the last 4 measurements.
5	N' = **N** * (**N**-1) / 2 = **31** * (**31**-1) / 2 = **465**	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 = (**465** ± **2.576** * **0.0**^{½}) / 2 = [**232.5**, **232.5**]	Ordinal positions for two-sided lower confidence limits for slope. The LCL and UCL are the Mth 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 Holding Pond

Step	Equation	Description
1	$\overline{X}$ = **sum[X]** / **N** = **2.0** / **4** = **0.5**	Compute the mean of the last 4 measurements.
2	S = ((**sum[X^2]** - **sum[X]**^{2}/**N**) / (**N**-1))^{½} = ((**1.0** - **4.0**/**4**) / (**4**-1))^{½} = **0.0**	Compute sd of the last 4 measurements.
3	LCL = $\overline{\mathbf{X}}$ - **tS**/**N**^{½} = **0.5** - **2.353** * **0.0**/**4**^{½} = **0.5**	Compute lower confidence limit for the mean of the last 4 measurements.
4	UCL = $\overline{\mathbf{X}}$ + **tS**/**N**^{½} = **0.5** + **2.353** * **0.0**/**4**^{½} = **0.5**	Compute upper confidence limit for the mean of the last 4 measurements.
5	N' = **N** * (**N**-1) / 2 = **31** * (**31**-1) / 2 = **465**	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 = (**465** ± **2.576** * **0.0**^{½}) / 2 = [**232.5**, **232.5**]	Ordinal positions for two-sided lower confidence limits for slope. The LCL and UCL are the Mth 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 Holding Pond

Step	Equation	Description
1	$\overline{X}$ = **sum[X]** / **N** = **4.16** / **4** = **1.04**	Compute the mean of the last 4 measurements.
2	S = ((**sum[X^2]** - **sum[X]**^{2}/**N**) / (**N**-1))^{½} = ((**7.826** - **17.306**/**4**) / (**4**-1))^{½} = **1.08**	Compute sd of the last 4 measurements.
3	LCL = $\overline{\mathbf{X}}$ - **tS**/**N**^{½} = **1.04** - **2.353** * **1.08**/**4**^{½} = **0.0**	Compute lower confidence limit for the mean of the last 4 measurements.
4	UCL = $\overline{\mathbf{X}}$ + **tS**/**N**^{½} = **1.04** + **2.353** * **1.08**/**4**^{½} = **2.31**	Compute upper confidence limit for the mean of the last 4 measurements.
5	N' = **N** * (**N**-1) / 2 = **33** * (**33**-1) / 2 = **528**	Number of sample pairs during trend detection period.
6	S = **0.0**	Sen's estimator of trend.
7	var(S) = **2540.0**	Variance estimate for slope.
8	M(S) = (**N'** ± **Z**$_{.995}$ * **var(S)**^{½}) / 2 = (**528** ± **2.576** * **2540.0**^{½}) / 2 = [**199.087**, **328.913**]	Ordinal positions for two-sided lower confidence limits for slope. The LCL and UCL are the Mth 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 Holding Pond

Step	Equation	Description
1	$\overline{X}$ = **sum[X]** / **N** = **2.0** / **4** = **0.5**	Compute the mean of the last 4 measurements.
2	S = ((**sum[X^2]** - **sum[X]**^{2}/**N**) / (**N**-1))^{½} = ((**1.0** - **4.0**/**4**) / (**4**-1))^{½} = **0.0**	Compute sd of the last 4 measurements.
3	LCL = $\overline{\mathbf{X}}$ - **tS**/**N**^{½} = **0.5** - **2.353** * **0.0**/**4**^{½} = **0.5**	Compute lower confidence limit for the mean of the last 4 measurements.
4	UCL = $\overline{\mathbf{X}}$ + **tS**/**N**^{½} = **0.5** + **2.353** * **0.0**/**4**^{½} = **0.5**	Compute upper confidence limit for the mean of the last 4 measurements.
5	N' = **N** * (**N**-1) / 2 = **31** * (**31**-1) / 2 = **465**	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 = (**465** ± **2.576** * **0.0**^{½}) / 2 = [**232.5**, **232.5**]	Ordinal positions for two-sided lower confidence limits for slope. The LCL and UCL are the Mth 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 Holding Pond

Step	Equation	Description
1	$\overline{X}$ = **sum[X]** / **N** = **2.0** / **4** = **0.5**	Compute the mean of the last 4 measurements.
2	S = ((**sum[X^2]** - **sum[X]**^{2}/**N**) / (**N**-1))$^{1/2}$ = ((**1.0** - **4.0**/**4**) / (**4**-1))$^{1/2}$ = **0.0**	Compute sd of the last 4 measurements.
3	LCL = $\overline{\mathbf{X}}$ - **tS**/**N**$^{1/2}$ = **0.5** - **2.353** * **0.0**/**4**$^{1/2}$ = **0.5**	Compute lower confidence limit for the mean of the last 4 measurements.
4	UCL = $\overline{\mathbf{X}}$ + **tS**/**N**$^{1/2}$ = **0.5** + **2.353** * **0.0**/**4**$^{1/2}$ = **0.5**	Compute upper confidence limit for the mean of the last 4 measurements.
5	N' = **N** * (**N**-1) / 2 = **31** * (**31**-1) / 2 = **465**	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 = (**465** ± **2.576** * **0.0**$^{1/2}$) / 2 = [**232.5**, **232.5**]	Ordinal positions for two-sided lower confidence limits for slope. The LCL and UCL are the Mth 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 Holding Pond

Step	Equation	Description
1	$\overline{X}$ = **sum[X]** / **N** = **2.0** / **4** = **0.5**	Compute the mean of the last 4 measurements.
2	S = ((**sum[X^2]** - **sum[X]**^{2}/**N**) / (**N**-1))^{½} = ((**1.0** - **4.0**/**4**) / (**4**-1))^{½} = **0.0**	Compute sd of the last 4 measurements.
3	LCL = $\overline{\mathbf{X}}$ - **tS**/**N**^{½} = **0.5** - **2.353** * **0.0**/**4**^{½} = **0.5**	Compute lower confidence limit for the mean of the last 4 measurements.
4	UCL = $\overline{\mathbf{X}}$ + **tS**/**N**^{½} = **0.5** + **2.353** * **0.0**/**4**^{½} = **0.5**	Compute upper confidence limit for the mean of the last 4 measurements.
5	N' = **N** * (**N**-1) / 2 = **31** * (**31**-1) / 2 = **465**	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 = (**465** ± **2.576** * **0.0**^{½}) / 2 = [**232.5**, **232.5**]	Ordinal positions for two-sided lower confidence limits for slope. The LCL and UCL are the Mth 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-12A

Step	Equation	Description
1	$\overline{X}$ = **sum[X]** / **N** = **88.5** / **4** = **22.125**	Compute the mean of the last 4 measurements.
2	S = ((**sum[X^2]** - **sum[X]**^{2}/**N**) / (**N**-1))^{½} = ((**2097.09** - **7832.25**/**4**) / (**4**-1))^{½} = **6.808**	Compute sd of the last 4 measurements.
3	LCL = $\overline{\mathbf{X}}$ - **tS**/**N**^{½} = **22.125** - **2.353** * **6.808**/**4**^{½} = **14.117**	Compute lower confidence limit for the mean of the last 4 measurements.
4	UCL = $\overline{\mathbf{X}}$ + **tS**/**N**^{½} = **22.125** + **2.353** * **6.808**/**4**^{½} = **30.133**	Compute upper confidence limit for the mean of the last 4 measurements.
5	N' = **N** * (**N**-1) / 2 = **40** * (**40**-1) / 2 = **780**	Number of sample pairs during trend detection period.
6	S = **-5.836**	Sen's estimator of trend.
7	var(S) = **7353.0**	Variance estimate for slope.
8	M(S) = (**N'** ± **Z**$_{.995}$ * **var(S)**^{½}) / 2 = (**780** ± **2.576** * **7353.0**^{½}) / 2 = [**279.554**, **500.446**]	Ordinal positions for two-sided lower confidence limits for slope. The LCL and UCL are the Mth largest slope estimates for the values shown. When the values are not integers, interpolation is used.
9	CL(S) = [**-7.102**, **-4.719**]	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	$\bar{X}$ = **sum[X]** / **N** = **5.75** / **4** = **1.438**	Compute the mean of the last 4 measurements.
2	S = ((**sum[X^2]** - **sum[X]**^{2}/**N**) / (**N**-1))^{½} = ((**8.748** - **33.063**/**4**) / (**4**-1))^{½} = **0.401**	Compute sd of the last 4 measurements.
3	LCL = $\bar{\mathbf{X}}$ - **tS**/**N**^{½} = **1.438** - **2.353** * **0.401**/**4**^{½} = **0.966**	Compute lower confidence limit for the mean of the last 4 measurements.
4	UCL = $\bar{\mathbf{X}}$ + **tS**/**N**^{½} = **1.438** + **2.353** * **0.401**/**4**^{½} = **1.909**	Compute upper confidence limit for the mean of the last 4 measurements.
5	N' = **N** * (**N**-1) / 2 = **40** * (**40**-1) / 2 = **780**	Number of sample pairs during trend detection period.
6	S = **-0.29**	Sen's estimator of trend.
7	var(S) = **7355.333**	Variance estimate for slope.
8	M(S) = (**N'** ± **Z**$_{.995}$ * **var(S)**^{½}) / 2 = (**780** ± **2.576** * **7355.333**^{½}) / 2 = [**279.537**, **500.463**]	Ordinal positions for two-sided lower confidence limits for slope. The LCL and UCL are the Mth largest slope estimates for the values shown. When the values are not integers, interpolation is used.
9	CL(S) = [**-0.343**, **-0.231**]	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** = **20.0** / **4** = **5.0**	Compute the mean of the last 4 measurements.
2	S = ((**sum[X^2]** - **sum[X]**^{2}/**N**) / (**N**-1))^{½} = ((**100.0** - **400.0**/**4**) / (**4**-1))^{½} = **0.0**	Compute sd of the last 4 measurements.
3	LCL = $\overline{\mathbf{X}}$ - **tS**/**N**^{½} = **5.0** - **2.353** * **0.0**/**4**^{½} = **5.0**	Compute lower confidence limit for the mean of the last 4 measurements.
4	UCL = $\overline{\mathbf{X}}$ + **tS**/**N**^{½} = **5.0** + **2.353** * **0.0**/**4**^{½} = **5.0**	Compute upper confidence limit for the mean of the last 4 measurements.
5	N' = **N** * (**N**-1) / 2 = **40** * (**40**-1) / 2 = **780**	Number of sample pairs during trend detection period.
6	S = **0.0**	Sen's estimator of trend.
7	var(S) = **1039.667**	Variance estimate for slope.
8	M(S) = (**N'** ± **Z**$_{.995}$ * **var(S)**^{½}) / 2 = (**780** ± **2.576** * **1039.667**^{½}) / 2 = [**348.47**, **431.53**]	Ordinal positions for two-sided lower confidence limits for slope. The LCL and UCL are the Mth 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** = **8.03** / **4** = **2.008**	Compute the mean of the last 4 measurements.
2	S = ((**sum[X^2]** - **sum[X]**^{2}/**N**) / (**N**-1))^{½} = ((**17.809** - **64.481**/**4**) / (**4**-1))^{½} = **0.75**	Compute sd of the last 4 measurements.
3	LCL = $\overline{\mathbf{X}}$ - **tS**/**N**^{½} = **2.008** - **2.353** * **0.75**/**4**^{½} = **1.125**	Compute lower confidence limit for the mean of the last 4 measurements.
4	UCL = $\overline{\mathbf{X}}$ + **tS**/**N**^{½} = **2.008** + **2.353** * **0.75**/**4**^{½} = **2.89**	Compute upper confidence limit for the mean of the last 4 measurements.
5	N' = **N** * (**N**-1) / 2 = **40** * (**40**-1) / 2 = **780**	Number of sample pairs during trend detection period.
6	S = **0.033**	Sen's estimator of trend.
7	var(S) = **7258.333**	Variance estimate for slope.
8	M(S) = (**N'** ± **Z**$_{.995}$ * **var(S)**^{½}) / 2 = (**780** ± **2.576** * **7258.333**^{½}) / 2 = [**280.268**, **499.732**]	Ordinal positions for two-sided lower confidence limits for slope. The LCL and UCL are the Mth largest slope estimates for the values shown. When the values are not integers, interpolation is used.
9	CL(S) = [**0.0**, **0.071**]	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** = **45.52** / **4** = **11.38**	Compute the mean of the last 4 measurements.
2	S = ((**sum[X^2]** - **sum[X]**^{2}/**N**) / (**N**-1))^{½} = ((**540.562** - **2072.07**/**4**) / (**4**-1))^{½} = **2.741**	Compute sd of the last 4 measurements.
3	LCL = $\overline{\mathbf{X}}$ - **tS**/**N**^{½} = **11.38** - **2.353** * **2.741**/**4**^{½} = **8.155**	Compute lower confidence limit for the mean of the last 4 measurements.
4	UCL = $\overline{\mathbf{X}}$ + **tS**/**N**^{½} = **11.38** + **2.353** * **2.741**/**4**^{½} = **14.605**	Compute upper confidence limit for the mean of the last 4 measurements.
5	N' = **N** * (**N**-1) / 2 = **40** * (**40**-1) / 2 = **780**	Number of sample pairs during trend detection period.
6	S = **-0.796**	Sen's estimator of trend.
7	var(S) = **7348.667**	Variance estimate for slope.
8	M(S) = (**N'** ± **Z**$_{.995}$ * **var(S)**^{½}) / 2 = (**780** ± **2.576** * **7348.667**^{½}) / 2 = [**279.587**, **500.413**]	Ordinal positions for two-sided lower confidence limits for slope. The LCL and UCL are the Mth largest slope estimates for the values shown. When the values are not integers, interpolation is used.
9	CL(S) = [**-1.861**, **-0.149**]	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** = **104.7** / **4** = **26.175**	Compute the mean of the last 4 measurements.
2	S = ((**sum[X^2]** - **sum[X]**^{2}/**N**) / (**N**-1))^{½} = ((**3060.01** - **10962.09/4**) / (**4**-1))^{½} = **10.32**	Compute sd of the last 4 measurements.
3	LCL = $\overline{\mathbf{X}}$ - **tS/N**^{½} = **26.175** - **2.353** * **10.32/4**^{½} = **14.036**	Compute lower confidence limit for the mean of the last 4 measurements.
4	UCL = $\overline{\mathbf{X}}$ + **tS/N**^{½} = **26.175** + **2.353** * **10.32/4**^{½} = **38.314**	Compute upper confidence limit for the mean of the last 4 measurements.
5	N' = **N** * (**N**-1) / 2 = **40** * (**40**-1) / 2 = **780**	Number of sample pairs during trend detection period.
6	S = **-11.008**	Sen's estimator of trend.
7	var(S) = **7361.667**	Variance estimate for slope.
8	M(S) = (**N'** ± **Z**$_{.995}$ * **var(S)**^{½}) / 2 = (**780** ± **2.576** * **7361.667**^{½}) / 2 = [**279.489**, **500.511**]	Ordinal positions for two-sided lower confidence limits for slope. The LCL and UCL are the Mth largest slope estimates for the values shown. When the values are not integers, interpolation is used.
9	CL(S) = [**-14.125**, **-6.63**]	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** = **12.58** / **4** = **3.145**	Compute the mean of the last 4 measurements.
2	S = ((**sum[X^2]** - **sum[X]**^{2}/**N**) / (**N**-1))^{½} = ((**42.934** - **158.256**/**4**) / (**4**-1))^{½} = **1.06**	Compute sd of the last 4 measurements.
3	LCL = $\overline{\mathbf{X}}$ - **tS**/**N**^{½} = **3.145** - **2.353** * **1.06**/**4**^{½} = **1.898**	Compute lower confidence limit for the mean of the last 4 measurements.
4	UCL = $\overline{\mathbf{X}}$ + **tS**/**N**^{½} = **3.145** + **2.353** * **1.06**/**4**^{½} = **4.392**	Compute upper confidence limit for the mean of the last 4 measurements.
5	N' = **N** * (**N**-1) / 2 = **40** * (**40**-1) / 2 = **780**	Number of sample pairs during trend detection period.
6	S = **-0.36**	Sen's estimator of trend.
7	var(S) = **7358.0**	Variance estimate for slope.
8	M(S) = (**N'** ± **Z**$_{.995}$ * **var(S)**^{½}) / 2 = (**780** ± **2.576** * **7358.0**^{½}) / 2 = [**279.517**, **500.483**]	Ordinal positions for two-sided lower confidence limits for slope. The LCL and UCL are the Mth largest slope estimates for the values shown. When the values are not integers, interpolation is used.
9	CL(S) = [**-0.462**, **-0.27**]	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** = **2.0** / **4** = **0.5**	Compute the mean of the last 4 measurements.
2	S = ((**sum[X^2]** - **sum[X]**^{2}/**N**) / (**N**-1))^{½} = ((**1.0** - **4.0**/**4**) / (**4**-1))^{½} = **0.0**	Compute sd of the last 4 measurements.
3	LCL = $\overline{\mathbf{X}}$ - **tS**/**N**^{½} = **0.5** - **2.353** * **0.0**/**4**^{½} = **0.5**	Compute lower confidence limit for the mean of the last 4 measurements.
4	UCL = $\overline{\mathbf{X}}$ + **tS**/**N**^{½} = **0.5** + **2.353** * **0.0**/**4**^{½} = **0.5**	Compute upper confidence limit for the mean of the last 4 measurements.
5	N' = **N** * (**N**-1) / 2 = **40** * (**40**-1) / 2 = **780**	Number of sample pairs during trend detection period.
6	S = **0.0**	Sen's estimator of trend.
7	var(S) = **533.0**	Variance estimate for slope.
8	M(S) = (**N'** ± **Z**$_{.995}$ * **var(S)**^{½}) / 2 = (**780** ± **2.576** * **533.0**^{½}) / 2 = [**360.264**, **419.736**]	Ordinal positions for two-sided lower confidence limits for slope. The LCL and UCL are the Mth 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** = **73.97** / **4** = **18.493**	Compute the mean of the last 4 measurements.
2	S = ((**sum[X^2]** - **sum[X]**^{2}/**N**) / (**N**-1))^{½} = ((**1512.319** - **5471.561**/**4**) / (**4**-1))^{½} = **6.939**	Compute sd of the last 4 measurements.
3	LCL = $\overline{\mathbf{X}}$ - **tS**/**N**^{½} = **18.493** - **2.353** * **6.939**/**4**^{½} = **10.331**	Compute lower confidence limit for the mean of the last 4 measurements.
4	UCL = $\overline{\mathbf{X}}$ + **tS**/**N**^{½} = **18.493** + **2.353** * **6.939**/**4**^{½} = **26.654**	Compute upper confidence limit for the mean of the last 4 measurements.
5	N' = **N** * (**N**-1) / 2 = **40** * (**40**-1) / 2 = **780**	Number of sample pairs during trend detection period.
6	S = **-2.705**	Sen's estimator of trend.
7	var(S) = **7356.0**	Variance estimate for slope.
8	M(S) = (**N'** ± **Z**$_{.995}$ * **var(S)**^{½}) / 2 = (**780** ± **2.576** * **7356.0**^{½}) / 2 = [**279.532**, **500.468**]	Ordinal positions for two-sided lower confidence limits for slope. The LCL and UCL are the Mth largest slope estimates for the values shown. When the values are not integers, interpolation is used.
9	CL(S) = [**-3.95**, **-1.539**]	Two-sided confidence interval for slope.
10	UCL(S) < 0	**Significant decreasing trend.**

Worksheet 6 - Assessment Monitoring
1,1-Dichloroethane (ug/L) at MW-13A

Step	Equation	Description
1	$\overline{X}$ = **sum[X]** / **N** = **2.0** / **4** = **0.5**	Compute the mean of the last 4 measurements.
2	S = ((**sum[X^2]** - **sum[X]**^{2}/**N**) / (**N**-1))^{½} = ((**1.0** - **4.0**/**4**) / (**4**-1))^{½} = **0.0**	Compute sd of the last 4 measurements.
3	LCL = $\overline{\mathbf{X}}$ - **tS**/**N**^{½} = **0.5** - **2.353** * **0.0**/**4**^{½} = **0.5**	Compute lower confidence limit for the mean of the last 4 measurements.
4	UCL = $\overline{\mathbf{X}}$ + **tS**/**N**^{½} = **0.5** + **2.353** * **0.0**/**4**^{½} = **0.5**	Compute upper confidence limit for the mean of the last 4 measurements.
5	N' = **N** * (**N**-1) / 2 = **39** * (**39**-1) / 2 = **741**	Number of sample pairs during trend detection period.
6	S = **0.0**	Sen's estimator of trend.
7	var(S) = **0.0**	Variance estimate for slope.
8	M(S) = (**N'** ± **Z**$_{.995}$ * **var(S)**^{½}) / 2 = (**741** ± **2.576** * **0.0**^{½}) / 2 = [**370.5**, **370.5**]	Ordinal positions for two-sided lower confidence limits for slope. The LCL and UCL are the Mth 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-13A

Step	Equation	Description
1	$\overline{X}$ = **sum[X]** / **N** = **2.0** / **4** = **0.5**	Compute the mean of the last 4 measurements.
2	S = ((**sum[X^2]** - **sum[X]**^{2}/**N**) / (**N**-1))^{½} = ((**1.0** - **4.0**/**4**) / (**4**-1))^{½} = **0.0**	Compute sd of the last 4 measurements.
3	LCL = $\overline{\mathbf{X}}$ - **tS**/**N**^{½} = **0.5** - **2.353** * **0.0**/**4**^{½} = **0.5**	Compute lower confidence limit for the mean of the last 4 measurements.
4	UCL = $\overline{\mathbf{X}}$ + **tS**/**N**^{½} = **0.5** + **2.353** * **0.0**/**4**^{½} = **0.5**	Compute upper confidence limit for the mean of the last 4 measurements.
5	N' = **N** * (**N**-1) / 2 = **39** * (**39**-1) / 2 = **741**	Number of sample pairs during trend detection period.
6	S = **0.0**	Sen's estimator of trend.
7	var(S) = **0.0**	Variance estimate for slope.
8	M(S) = (**N'** ± **Z**$_{.995}$ * **var(S)**^{½}) / 2 = (**741** ± **2.576** * **0.0**^{½}) / 2 = [**370.5**, **370.5**]	Ordinal positions for two-sided lower confidence limits for slope. The LCL and UCL are the Mth 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-13A

Step	Equation	Description
1	$\overline{X}$ = **sum[X]** / **N** = **20.0** / **4** = **5.0**	Compute the mean of the last 4 measurements.
2	S = ((**sum[X^2]** - **sum[X]**^{2}/**N**) / (**N**-1))^{½} = ((**100.0** - **400.0**/**4**) / (**4**-1))^{½} = **0.0**	Compute sd of the last 4 measurements.
3	LCL = $\overline{\mathbf{X}}$ - **tS**/**N**^{½} = **5.0** - **2.353** * **0.0**/**4**^{½} = **5.0**	Compute lower confidence limit for the mean of the last 4 measurements.
4	UCL = $\overline{\mathbf{X}}$ + **tS**/**N**^{½} = **5.0** + **2.353** * **0.0**/**4**^{½} = **5.0**	Compute upper confidence limit for the mean of the last 4 measurements.
5	N' = **N** * (**N**-1) / 2 = **39** * (**39**-1) / 2 = **741**	Number of sample pairs during trend detection period.
6	S = **0.0**	Sen's estimator of trend.
7	var(S) = **987.667**	Variance estimate for slope.
8	M(S) = (**N'** ± **Z**$_{.995}$ * **var(S)**^{½}) / 2 = (**741** ± **2.576** * **987.667**^{½}) / 2 = [**330.022**, **410.978**]	Ordinal positions for two-sided lower confidence limits for slope. The LCL and UCL are the Mth 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-13A

Step	Equation	Description
1	$\overline{X}$ = **sum[X]** / **N** = **2.0** / **4** = **0.5**	Compute the mean of the last 4 measurements.
2	S = ((**sum[X^2]** - **sum[X]**^{2}/**N**) / (**N**-1))^{½} = ((**1.0** - **4.0**/**4**) / (**4**-1))^{½} = **0.0**	Compute sd of the last 4 measurements.
3	LCL = $\overline{\mathbf{X}}$ - **tS**/**N**^{½} = **0.5** - **2.353** * **0.0**/**4**^{½} = **0.5**	Compute lower confidence limit for the mean of the last 4 measurements.
4	UCL = $\overline{\mathbf{X}}$ + **tS**/**N**^{½} = **0.5** + **2.353** * **0.0**/**4**^{½} = **0.5**	Compute upper confidence limit for the mean of the last 4 measurements.
5	N' = **N** * (**N**-1) / 2 = **39** * (**39**-1) / 2 = **741**	Number of sample pairs during trend detection period.
6	S = **0.0**	Sen's estimator of trend.
7	var(S) = **0.0**	Variance estimate for slope.
8	M(S) = (**N'** ± **Z**$_{.995}$ * **var(S)**^{½}) / 2 = (**741** ± **2.576** * **0.0**^{½}) / 2 = [**370.5**, **370.5**]	Ordinal positions for two-sided lower confidence limits for slope. The LCL and UCL are the Mth 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-13A

Step	Equation	Description
1	$\overline{X}$ = **sum[X]** / **N** = **2.0** / **4** = **0.5**	Compute the mean of the last 4 measurements.
2	S = ((**sum[X^2]** - **sum[X]**^{2}/**N**) / (**N**-1))^{½} = ((**1.0** - **4.0**/**4**) / (**4**-1))^{½} = **0.0**	Compute sd of the last 4 measurements.
3	LCL = $\overline{\mathbf{X}}$ - **tS**/**N**^{½} = **0.5** - **2.353** * **0.0**/**4**^{½} = **0.5**	Compute lower confidence limit for the mean of the last 4 measurements.
4	UCL = $\overline{\mathbf{X}}$ + **tS**/**N**^{½} = **0.5** + **2.353** * **0.0**/**4**^{½} = **0.5**	Compute upper confidence limit for the mean of the last 4 measurements.
5	N' = **N** * (**N**-1) / 2 = **39** * (**39**-1) / 2 = **741**	Number of sample pairs during trend detection period.
6	S = **0.0**	Sen's estimator of trend.
7	var(S) = **0.0**	Variance estimate for slope.
8	M(S) = (**N'** ± **Z**$_{.995}$ * **var(S)**^{½}) / 2 = (**741** ± **2.576** * **0.0**^{½}) / 2 = [**370.5**, **370.5**]	Ordinal positions for two-sided lower confidence limits for slope. The LCL and UCL are the Mth 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-13A

Step	Equation	Description
1	$\overline{X}$ = **sum[X]** / **N** = **2.0** / **4** = **0.5**	Compute the mean of the last 4 measurements.
2	S = ((**sum[X^2]** - **sum[X]**^{2}/**N**) / (**N**-1))^{½} = ((**1.0** - **4.0**/**4**) / (**4**-1))^{½} = **0.0**	Compute sd of the last 4 measurements.
3	LCL = $\overline{\mathbf{X}}$ - **tS**/**N**^{½} = **0.5** - **2.353** * **0.0**/**4**^{½} = **0.5**	Compute lower confidence limit for the mean of the last 4 measurements.
4	UCL = $\overline{\mathbf{X}}$ + **tS**/**N**^{½} = **0.5** + **2.353** * **0.0**/**4**^{½} = **0.5**	Compute upper confidence limit for the mean of the last 4 measurements.
5	N' = **N** * (**N**-1) / 2 = **39** * (**39**-1) / 2 = **741**	Number of sample pairs during trend detection period.
6	S = **0.0**	Sen's estimator of trend.
7	var(S) = **0.0**	Variance estimate for slope.
8	M(S) = (**N'** ± **Z**$_{.995}$ * **var(S)**^{½}) / 2 = (**741** ± **2.576** * **0.0**^{½}) / 2 = [**370.5**, **370.5**]	Ordinal positions for two-sided lower confidence limits for slope. The LCL and UCL are the Mth 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-13A

Step	Equation	Description
1	$\overline{X}$ = **sum[X]** / **N** = **2.0** / **4** = **0.5**	Compute the mean of the last 4 measurements.
2	S = ((**sum[X^2]** - **sum[X]**^{2}/**N**) / (**N**-1))^{½} = ((**1.0** - **4.0**/**4**) / (**4**-1))^{½} = **0.0**	Compute sd of the last 4 measurements.
3	LCL = $\overline{\mathbf{X}}$ - **tS**/**N**^{½} = **0.5** - **2.353** * **0.0**/**4**^{½} = **0.5**	Compute lower confidence limit for the mean of the last 4 measurements.
4	UCL = $\overline{\mathbf{X}}$ + **tS**/**N**^{½} = **0.5** + **2.353** * **0.0**/**4**^{½} = **0.5**	Compute upper confidence limit for the mean of the last 4 measurements.
5	N' = **N** * (**N**-1) / 2 = **39** * (**39**-1) / 2 = **741**	Number of sample pairs during trend detection period.
6	S = **0.0**	Sen's estimator of trend.
7	var(S) = **0.0**	Variance estimate for slope.
8	M(S) = (**N'** ± **Z**$_{.995}$ * **var(S)**^{½}) / 2 = (**741** ± **2.576** * **0.0**^{½}) / 2 = [**370.5**, **370.5**]	Ordinal positions for two-sided lower confidence limits for slope. The LCL and UCL are the Mth 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-13A

Step	Equation	Description
1	$\overline{X}$ = **sum[X]** / **N** = **2.0** / **4** = **0.5**	Compute the mean of the last 4 measurements.
2	S = ((**sum[X^2]** - **sum[X]**^{2}/**N**) / (**N**-1))^{½} = ((**1.0** - **4.0**/**4**) / (**4**-1))^{½} = **0.0**	Compute sd of the last 4 measurements.
3	LCL = $\overline{\mathbf{X}}$ - **tS**/**N**^{½} = **0.5** - **2.353** * **0.0**/**4**^{½} = **0.5**	Compute lower confidence limit for the mean of the last 4 measurements.
4	UCL = $\overline{\mathbf{X}}$ + **tS**/**N**^{½} = **0.5** + **2.353** * **0.0**/**4**^{½} = **0.5**	Compute upper confidence limit for the mean of the last 4 measurements.
5	N' = **N** * (**N**-1) / 2 = **39** * (**39**-1) / 2 = **741**	Number of sample pairs during trend detection period.
6	S = **0.0**	Sen's estimator of trend.
7	var(S) = **0.0**	Variance estimate for slope.
8	M(S) = (**N'** ± **Z**$_{.995}$ * **var(S)**^{½}) / 2 = (**741** ± **2.576** * **0.0**^{½}) / 2 = [**370.5**, **370.5**]	Ordinal positions for two-sided lower confidence limits for slope. The LCL and UCL are the Mth 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-13A

Step	Equation	Description
1	$\overline{X}$ = **sum[X]** / **N** = **2.0** / **4** = **0.5**	Compute the mean of the last 4 measurements.
2	S = ((**sum[X^2]** - **sum[X]**^{2}/**N**) / (**N**-1))^{½} = ((**1.0** - **4.0**/**4**) / (**4**-1))^{½} = **0.0**	Compute sd of the last 4 measurements.
3	LCL = $\overline{\mathbf{X}}$ - **tS**/**N**^{½} = **0.5** - **2.353** * **0.0**/**4**^{½} = **0.5**	Compute lower confidence limit for the mean of the last 4 measurements.
4	UCL = $\overline{\mathbf{X}}$ + **tS**/**N**^{½} = **0.5** + **2.353** * **0.0**/**4**^{½} = **0.5**	Compute upper confidence limit for the mean of the last 4 measurements.
5	N' = **N** * (**N**-1) / 2 = **39** * (**39**-1) / 2 = **741**	Number of sample pairs during trend detection period.
6	S = **0.0**	Sen's estimator of trend.
7	var(S) = **0.0**	Variance estimate for slope.
8	M(S) = (**N'** ± **Z**$_{.995}$ * **var(S)**^{½}) / 2 = (**741** ± **2.576** * **0.0**^{½}) / 2 = [**370.5**, **370.5**]	Ordinal positions for two-sided lower confidence limits for slope. The LCL and UCL are the Mth 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-19A

Step	Equation	Description
1	$\overline{X}$ = **sum[X]** / **N** = **2.0** / **4** = **0.5**	Compute the mean of the last 4 measurements.
2	S = ((**sum[X^2]** - **sum[X]**^{2}/**N**) / (**N**-1))^{½} = ((**1.0** - **4.0**/**4**) / (**4**-1))^{½} = **0.0**	Compute sd of the last 4 measurements.
3	LCL = $\overline{\mathbf{X}}$ - **tS**/**N**^{½} = **0.5** - **2.353** * **0.0**/**4**^{½} = **0.5**	Compute lower confidence limit for the mean of the last 4 measurements.
4	UCL = $\overline{\mathbf{X}}$ + **tS**/**N**^{½} = **0.5** + **2.353** * **0.0**/**4**^{½} = **0.5**	Compute upper confidence limit for the mean of the last 4 measurements.
5	N' = **N** * (**N**-1) / 2 = **40** * (**40**-1) / 2 = **780**	Number of sample pairs during trend detection period.
6	S = **0.0**	Sen's estimator of trend.
7	var(S) = **5736.667**	Variance estimate for slope.
8	M(S) = (**N'** ± **Z**$_{.995}$ * **var(S)**^{½}) / 2 = (**780** ± **2.576** * **5736.667**^{½}) / 2 = [**292.446**, **487.554**]	Ordinal positions for two-sided lower confidence limits for slope. The LCL and UCL are the Mth largest slope estimates for the values shown. When the values are not integers, interpolation is used.
9	CL(S) = [**-0.113**, **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-19A

Step	Equation	Description
1	$\overline{X}$ = **sum[X]** / **N** = **2.0** / **4** = **0.5**	Compute the mean of the last 4 measurements.
2	S = ((**sum[X^2]** - **sum[X]**^{2}/**N**) / (**N**-1))^{½} = ((**1.0** - **4.0**/**4**) / (**4**-1))^{½} = **0.0**	Compute sd of the last 4 measurements.
3	LCL = $\overline{\mathbf{X}}$ - **tS**/**N**^{½} = **0.5** - **2.353** * **0.0**/**4**^{½} = **0.5**	Compute lower confidence limit for the mean of the last 4 measurements.
4	UCL = $\overline{\mathbf{X}}$ + **tS**/**N**^{½} = **0.5** + **2.353** * **0.0**/**4**^{½} = **0.5**	Compute upper confidence limit for the mean of the last 4 measurements.
5	N' = **N** * (**N**-1) / 2 = **40** * (**40**-1) / 2 = **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 = (**780** ± **2.576** * **0.0**^{½}) / 2 = [**390.0**, **390.0**]	Ordinal positions for two-sided lower confidence limits for slope. The LCL and UCL are the Mth 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-19A

Step	Equation	Description
1	$\overline{X}$ = **sum[X]** / **N** = **20.0** / **4** = **5.0**	Compute the mean of the last 4 measurements.
2	S = ((**sum[X^2]** - **sum[X]**^{2}/**N**) / (**N**-1))^{½} = ((**100.0** - **400.0**/**4**) / (**4**-1))^{½} = **0.0**	Compute sd of the last 4 measurements.
3	LCL = $\overline{\mathbf{X}}$ - **tS**/**N**^{½} = **5.0** - **2.353** * **0.0**/**4**^{½} = **5.0**	Compute lower confidence limit for the mean of the last 4 measurements.
4	UCL = $\overline{\mathbf{X}}$ + **tS**/**N**^{½} = **5.0** + **2.353** * **0.0**/**4**^{½} = **5.0**	Compute upper confidence limit for the mean of the last 4 measurements.
5	N' = **N** * (**N**-1) / 2 = **40** * (**40**-1) / 2 = **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 = (**780** ± **2.576** * **0.0**^{½}) / 2 = [**390.0**, **390.0**]	Ordinal positions for two-sided lower confidence limits for slope. The LCL and UCL are the Mth 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-19A

Step	Equation	Description
1	$\overline{X}$ = **sum[X]** / **N** = **2.0** / **4** = **0.5**	Compute the mean of the last 4 measurements.
2	S = ((**sum[X^2]** - **sum[X]**^{2}/**N**) / (**N**-1))^{½} = ((**1.0** - **4.0**/**4**) / (**4**-1))^{½} = **0.0**	Compute sd of the last 4 measurements.
3	LCL = $\overline{\mathbf{X}}$ - **tS**/**N**^{½} = **0.5** - **2.353** * **0.0**/**4**^{½} = **0.5**	Compute lower confidence limit for the mean of the last 4 measurements.
4	UCL = $\overline{\mathbf{X}}$ + **tS**/**N**^{½} = **0.5** + **2.353** * **0.0**/**4**^{½} = **0.5**	Compute upper confidence limit for the mean of the last 4 measurements.
5	N' = **N** * (**N**-1) / 2 = **40** * (**40**-1) / 2 = **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 = (**780** ± **2.576** * **0.0**^{½}) / 2 = [**390.0**, **390.0**]	Ordinal positions for two-sided lower confidence limits for slope. The LCL and UCL are the Mth 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-19A

Step	Equation	Description
1	$\overline{X}$ = **sum[X]** / **N** = **2.0** / **4** = **0.5**	Compute the mean of the last 4 measurements.
2	S = ((**sum[X^2]** - **sum[X]**^{2}/**N**) / (**N**-1))$^{1/2}$ = ((**1.0** - **4.0**/**4**) / (**4**-1))$^{1/2}$ = **0.0**	Compute sd of the last 4 measurements.
3	LCL = $\overline{\mathbf{X}}$ - **tS**/**N**$^{1/2}$ = **0.5** - **2.353** * **0.0**/**4**$^{1/2}$ = **0.5**	Compute lower confidence limit for the mean of the last 4 measurements.
4	UCL = $\overline{\mathbf{X}}$ + **tS**/**N**$^{1/2}$ = **0.5** + **2.353** * **0.0**/**4**$^{1/2}$ = **0.5**	Compute upper confidence limit for the mean of the last 4 measurements.
5	N' = **N** * (**N**-1) / 2 = **40** * (**40**-1) / 2 = **780**	Number of sample pairs during trend detection period.
6	S = **0.0**	Sen's estimator of trend.
7	var(S) = **4803.667**	Variance estimate for slope.
8	M(S) = (**N'** ± **Z**$_{.995}$ * **var(S)**$^{1/2}$) / 2 = (**780** ± **2.576** * **4803.667**$^{1/2}$) / 2 = [**300.731**, **479.269**]	Ordinal positions for two-sided lower confidence limits for slope. The LCL and UCL are the Mth largest slope estimates for the values shown. When the values are not integers, interpolation is used.
9	CL(S) = [**-0.127**, **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-19A

Step	Equation	Description
1	$\overline{X}$ = **sum[X]** / **N** = **2.0** / **4** = **0.5**	Compute the mean of the last 4 measurements.
2	S = ((**sum[X^2]** - **sum[X]**^{2}/**N**) / (**N**-1))$^{1/2}$ = ((**1.0** - **4.0**/**4**) / (**4**-1))$^{1/2}$ = **0.0**	Compute sd of the last 4 measurements.
3	LCL = $\overline{\mathbf{X}}$ - **tS**/**N**$^{1/2}$ = **0.5** - **2.353** * **0.0**/**4**$^{1/2}$ = **0.5**	Compute lower confidence limit for the mean of the last 4 measurements.
4	UCL = $\overline{\mathbf{X}}$ + **tS**/**N**$^{1/2}$ = **0.5** + **2.353** * **0.0**/**4**$^{1/2}$ = **0.5**	Compute upper confidence limit for the mean of the last 4 measurements.
5	N' = **N** * (**N**-1) / 2 = **40** * (**40**-1) / 2 = **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)**$^{1/2}$) / 2 = (**780** ± **2.576** * **2407.333**$^{1/2}$) / 2 = [**326.805**, **453.195**]	Ordinal positions for two-sided lower confidence limits for slope. The LCL and UCL are the Mth 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-19A

Step	Equation	Description
1	$\overline{X}$ = **sum[X]** / **N** = **2.0** / **4** = **0.5**	Compute the mean of the last 4 measurements.
2	S = ((**sum[X^2]** - **sum[X]**^{2}/**N**) / (**N**-1))^{½} = ((**1.0** - **4.0**/**4**) / (**4**-1))^{½} = **0.0**	Compute sd of the last 4 measurements.
3	LCL = $\overline{\mathbf{X}}$ - **tS**/**N**^{½} = **0.5** - **2.353** * **0.0**/**4**^{½} = **0.5**	Compute lower confidence limit for the mean of the last 4 measurements.
4	UCL = $\overline{\mathbf{X}}$ + **tS**/**N**^{½} = **0.5** + **2.353** * **0.0**/**4**^{½} = **0.5**	Compute upper confidence limit for the mean of the last 4 measurements.
5	N' = **N** * (**N**-1) / 2 = **40** * (**40**-1) / 2 = **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 = (**780** ± **2.576** * **0.0**^{½}) / 2 = [**390.0**, **390.0**]	Ordinal positions for two-sided lower confidence limits for slope. The LCL and UCL are the Mth 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-19A

Step	Equation	Description
1	$\overline{X}$ = **sum[X]** / **N** = **2.0** / **4** = **0.5**	Compute the mean of the last 4 measurements.
2	S = ((**sum[X^2]** - **sum[X]**^{2}/**N**) / (**N**-1))^{½} = ((**1.0** - **4.0**/**4**) / (**4**-1))^{½} = **0.0**	Compute sd of the last 4 measurements.
3	LCL = $\overline{\mathbf{X}}$ - **tS**/**N**^{½} = **0.5** - **2.353** * **0.0**/**4**^{½} = **0.5**	Compute lower confidence limit for the mean of the last 4 measurements.
4	UCL = $\overline{\mathbf{X}}$ + **tS**/**N**^{½} = **0.5** + **2.353** * **0.0**/**4**^{½} = **0.5**	Compute upper confidence limit for the mean of the last 4 measurements.
5	N' = **N** * (**N**-1) / 2 = **40** * (**40**-1) / 2 = **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 = (**780** ± **2.576** * **0.0**^{½}) / 2 = [**390.0**, **390.0**]	Ordinal positions for two-sided lower confidence limits for slope. The LCL and UCL are the Mth 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-19A

Step	Equation	Description
1	$\bar{X}$ = **sum[X]** / **N** = **2.0** / **4** = **0.5**	Compute the mean of the last 4 measurements.
2	S = ((**sum[X^2]** - **sum[X]**^{2}/**N**) / (**N**-1))$^{1/2}$ = ((**1.0** - **4.0**/**4**) / (**4**-1))$^{1/2}$ = **0.0**	Compute sd of the last 4 measurements.
3	LCL = $\bar{X}$ - **tS**/**N**$^{1/2}$ = **0.5** - **2.353** * **0.0**/**4**$^{1/2}$ = **0.5**	Compute lower confidence limit for the mean of the last 4 measurements.
4	UCL = $\bar{X}$ + **tS**/**N**$^{1/2}$ = **0.5** + **2.353** * **0.0**/**4**$^{1/2}$ = **0.5**	Compute upper confidence limit for the mean of the last 4 measurements.
5	N' = **N** * (**N**-1) / 2 = **40** * (**40**-1) / 2 = **780**	Number of sample pairs during trend detection period.
6	S = **0.0**	Sen's estimator of trend.
7	var(S) = **1039.667**	Variance estimate for slope.
8	M(S) = (**N'** ± **Z**$_{.995}$ * **var(S)**$^{1/2}$) / 2 = (**780** ± **2.576** * **1039.667**$^{1/2}$) / 2 = [**348.47**, **431.53**]	Ordinal positions for two-sided lower confidence limits for slope. The LCL and UCL are the Mth 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-23A

Step	Equation	Description
1	$\overline{X}$ = **sum[X]** / **N** = **2.0** / **4** = **0.5**	Compute the mean of the last 4 measurements.
2	S = ((**sum[X^2]** - **sum[X]**^{2}/**N**) / (**N**-1))^{½} = ((**1.0** - **4.0**/**4**) / (**4**-1))^{½} = **0.0**	Compute sd of the last 4 measurements.
3	LCL = $\overline{\mathbf{X}}$ - **tS**/**N**^{½} = **0.5** - **2.353** * **0.0**/**4**^{½} = **0.5**	Compute lower confidence limit for the mean of the last 4 measurements.
4	UCL = $\overline{\mathbf{X}}$ + **tS**/**N**^{½} = **0.5** + **2.353** * **0.0**/**4**^{½} = **0.5**	Compute upper confidence limit for the mean of the last 4 measurements.
5	N' = **N** * (**N**-1) / 2 = **38** * (**38**-1) / 2 = **703**	Number of sample pairs during trend detection period.
6	S = **0.0**	Sen's estimator of trend.
7	var(S) = **0.0**	Variance estimate for slope.
8	M(S) = (**N'** ± **Z**$_{.995}$ * **var(S)**^{½}) / 2 = (**703** ± **2.576** * **0.0**^{½}) / 2 = [**351.5**, **351.5**]	Ordinal positions for two-sided lower confidence limits for slope. The LCL and UCL are the Mth 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** = **2.0** / **4** = **0.5**	Compute the mean of the last 4 measurements.
2	S = ((**sum[X^2]** - **sum[X]**^{2}/**N**) / (**N**-1))^{½} = ((**1.0** - **4.0**/**4**) / (**4**-1))^{½} = **0.0**	Compute sd of the last 4 measurements.
3	LCL = $\overline{\mathbf{X}}$ - **tS**/**N**^{½} = **0.5** - **2.353** * **0.0**/**4**^{½} = **0.5**	Compute lower confidence limit for the mean of the last 4 measurements.
4	UCL = $\overline{\mathbf{X}}$ + **tS**/**N**^{½} = **0.5** + **2.353** * **0.0**/**4**^{½} = **0.5**	Compute upper confidence limit for the mean of the last 4 measurements.
5	N' = **N** * (**N**-1) / 2 = **38** * (**38**-1) / 2 = **703**	Number of sample pairs during trend detection period.
6	S = **0.0**	Sen's estimator of trend.
7	var(S) = **0.0**	Variance estimate for slope.
8	M(S) = (**N'** ± **Z**$_{.995}$ * **var(S)**^{½}) / 2 = (**703** ± **2.576** * **0.0**^{½}) / 2 = [**351.5**, **351.5**]	Ordinal positions for two-sided lower confidence limits for slope. The LCL and UCL are the Mth 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** = **20.0** / **4** = **5.0**	Compute the mean of the last 4 measurements.
2	S = ((**sum[X^2]** - **sum[X]**^{2}/**N**) / (**N**-1))^{½} = ((**100.0** - **400.0**/**4**) / (**4**-1))^{½} = **0.0**	Compute sd of the last 4 measurements.
3	LCL = $\overline{\mathbf{X}}$ - **tS**/**N**^{½} = **5.0** - **2.353** * **0.0**/**4**^{½} = **5.0**	Compute lower confidence limit for the mean of the last 4 measurements.
4	UCL = $\overline{\mathbf{X}}$ + **tS**/**N**^{½} = **5.0** + **2.353** * **0.0**/**4**^{½} = **5.0**	Compute upper confidence limit for the mean of the last 4 measurements.
5	N' = **N** * (**N**-1) / 2 = **38** * (**38**-1) / 2 = **703**	Number of sample pairs during trend detection period.
6	S = **0.0**	Sen's estimator of trend.
7	var(S) = **481.0**	Variance estimate for slope.
8	M(S) = (**N'** ± **Z**$_{.995}$ * **var(S)**^{½}) / 2 = (**703** ± **2.576** * **481.0**^{½}) / 2 = [**323.252**, **379.748**]	Ordinal positions for two-sided lower confidence limits for slope. The LCL and UCL are the Mth 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** = **2.65** / **4** = **0.663**	Compute the mean of the last 4 measurements.
2	S = ((**sum[X^2]** - **sum[X]**^{2}/**N**) / (**N**-1))^{½} = ((**2.073** - **7.023**/**4**) / (**4**-1))^{½} = **0.325**	Compute sd of the last 4 measurements.
3	LCL = $\overline{\mathbf{X}}$ - **tS**/**N**^{½} = **0.663** - **2.353** * **0.325**/**4**^{½} = **0.28**	Compute lower confidence limit for the mean of the last 4 measurements.
4	UCL = $\overline{\mathbf{X}}$ + **tS**/**N**^{½} = **0.663** + **2.353** * **0.325**/**4**^{½} = **1.045**	Compute upper confidence limit for the mean of the last 4 measurements.
5	N' = **N** * (**N**-1) / 2 = **38** * (**38**-1) / 2 = **703**	Number of sample pairs during trend detection period.
6	S = **0.0**	Sen's estimator of trend.
7	var(S) = **2865.333**	Variance estimate for slope.
8	M(S) = (**N'** ± **Z**$_{.995}$ * **var(S)**^{½}) / 2 = (**703** ± **2.576** * **2865.333**^{½}) / 2 = [**282.555**, **420.445**]	Ordinal positions for two-sided lower confidence limits for slope. The LCL and UCL are the Mth 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** = **2.0** / **4** = **0.5**	Compute the mean of the last 4 measurements.
2	S = ((**sum[X^2]** - **sum[X]**^{2}/**N**) / (**N**-1))^{½} = ((**1.0** - **4.0**/**4**) / (**4**-1))^{½} = **0.0**	Compute sd of the last 4 measurements.
3	LCL = $\overline{\mathbf{X}}$ - **tS**/**N**^{½} = **0.5** - **2.353** * **0.0**/**4**^{½} = **0.5**	Compute lower confidence limit for the mean of the last 4 measurements.
4	UCL = $\overline{\mathbf{X}}$ + **tS**/**N**^{½} = **0.5** + **2.353** * **0.0**/**4**^{½} = **0.5**	Compute upper confidence limit for the mean of the last 4 measurements.
5	N' = **N** * (**N**-1) / 2 = **38** * (**38**-1) / 2 = **703**	Number of sample pairs during trend detection period.
6	S = **0.0**	Sen's estimator of trend.
7	var(S) = **0.0**	Variance estimate for slope.
8	M(S) = (**N'** ± **Z**$_{.995}$ * **var(S)**^{½}) / 2 = (**703** ± **2.576** * **0.0**^{½}) / 2 = [**351.5**, **351.5**]	Ordinal positions for two-sided lower confidence limits for slope. The LCL and UCL are the Mth 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	$\bar{X}$ = **sum[X]** / **N** = **7.24** / **4** = **1.81**	Compute the mean of the last 4 measurements.
2	S = ((**sum[X^2]** - **sum[X]**^{2}/**N**) / (**N**-1))^{½} = ((**14.495** - **52.418**/**4**) / (**4**-1))^{½} = **0.681**	Compute sd of the last 4 measurements.
3	LCL = $\bar{X}$ - **tS**/**N**^{½} = **1.81** - **2.353** * **0.681**/**4**^{½} = **1.009**	Compute lower confidence limit for the mean of the last 4 measurements.
4	UCL = $\bar{X}$ + **tS**/**N**^{½} = **1.81** + **2.353** * **0.681**/**4**^{½} = **2.611**	Compute upper confidence limit for the mean of the last 4 measurements.
5	N' = **N** * (**N**-1) / 2 = **38** * (**38**-1) / 2 = **703**	Number of sample pairs during trend detection period.
6	S = **-0.123**	Sen's estimator of trend.
7	var(S) = **6316.333**	Variance estimate for slope.
8	M(S) = (**N'** ± **Z**$_{.995}$ * **var(S)**^{½}) / 2 = (**703** ± **2.576** * **6316.333**^{½}) / 2 = [**249.136**, **453.864**]	Ordinal positions for two-sided lower confidence limits for slope. The LCL and UCL are the Mth largest slope estimates for the values shown. When the values are not integers, interpolation is used.
9	CL(S) = [**-0.255**, **-0.013**]	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** = **2.0** / **4** = **0.5**	Compute the mean of the last 4 measurements.
2	S = ((**sum[X^2]** - **sum[X]**^{2}/**N**) / (**N**-1))^{½} = ((**1.0** - **4.0**/**4**) / (**4**-1))^{½} = **0.0**	Compute sd of the last 4 measurements.
3	LCL = $\overline{\mathbf{X}}$ - **tS**/**N**^{½} = **0.5** - **2.353** * **0.0**/**4**^{½} = **0.5**	Compute lower confidence limit for the mean of the last 4 measurements.
4	UCL = $\overline{\mathbf{X}}$ + **tS**/**N**^{½} = **0.5** + **2.353** * **0.0**/**4**^{½} = **0.5**	Compute upper confidence limit for the mean of the last 4 measurements.
5	N' = **N** * (**N**-1) / 2 = **38** * (**38**-1) / 2 = **703**	Number of sample pairs during trend detection period.
6	S = **0.0**	Sen's estimator of trend.
7	var(S) = **0.0**	Variance estimate for slope.
8	M(S) = (**N'** ± **Z**$_{.995}$ * **var(S)**^{½}) / 2 = (**703** ± **2.576** * **0.0**^{½}) / 2 = [**351.5**, **351.5**]	Ordinal positions for two-sided lower confidence limits for slope. The LCL and UCL are the Mth 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** = **14.99** / **4** = **3.748**	Compute the mean of the last 4 measurements.
2	S = ((**sum[X^2]** - **sum[X]**^{2}/**N**) / (**N**-1))^{½} = ((**59.31** - **224.7**/**4**) / (**4**-1))^{½} = **1.022**	Compute sd of the last 4 measurements.
3	LCL = $\overline{\mathbf{X}}$ - **tS**/**N**^{½} = **3.748** - **2.353** * **1.022**/**4**^{½} = **2.545**	Compute lower confidence limit for the mean of the last 4 measurements.
4	UCL = $\overline{\mathbf{X}}$ + **tS**/**N**^{½} = **3.748** + **2.353** * **1.022**/**4**^{½} = **4.95**	Compute upper confidence limit for the mean of the last 4 measurements.
5	N' = **N** * (**N**-1) / 2 = **38** * (**38**-1) / 2 = **703**	Number of sample pairs during trend detection period.
6	S = **-0.444**	Sen's estimator of trend.
7	var(S) = **6300.667**	Variance estimate for slope.
8	M(S) = (**N'** ± **Z**$_{.995}$ * **var(S)**^{½}) / 2 = (**703** ± **2.576** * **6300.667**^{½}) / 2 = [**249.263**, **453.737**]	Ordinal positions for two-sided lower confidence limits for slope. The LCL and UCL are the Mth largest slope estimates for the values shown. When the values are not integers, interpolation is used.
9	CL(S) = [**-0.728**, **-0.199**]	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** = **2.0** / **4** = **0.5**	Compute the mean of the last 4 measurements.
2	S = ((**sum[X^2]** - **sum[X]**^{2}/**N**) / (**N**-1))^{½} = ((**1.0** - **4.0**/**4**) / (**4**-1))^{½} = **0.0**	Compute sd of the last 4 measurements.
3	LCL = $\overline{\mathbf{X}}$ - **tS**/**N**^{½} = **0.5** - **2.353** * **0.0**/**4**^{½} = **0.5**	Compute lower confidence limit for the mean of the last 4 measurements.
4	UCL = $\overline{\mathbf{X}}$ + **tS**/**N**^{½} = **0.5** + **2.353** * **0.0**/**4**^{½} = **0.5**	Compute upper confidence limit for the mean of the last 4 measurements.
5	N' = **N** * (**N**-1) / 2 = **38** * (**38**-1) / 2 = **703**	Number of sample pairs during trend detection period.
6	S = **0.0**	Sen's estimator of trend.
7	var(S) = **0.0**	Variance estimate for slope.
8	M(S) = (**N'** ± **Z**$_{.995}$ * **var(S)**^{½}) / 2 = (**703** ± **2.576** * **0.0**^{½}) / 2 = [**351.5**, **351.5**]	Ordinal positions for two-sided lower confidence limits for slope. The LCL and UCL are the Mth 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** = **2.0** / **4** = **0.5**	Compute the mean of the last 4 measurements.
2	S = ((**sum[X^2]** - **sum[X]**^{2}/**N**) / (**N**-1))^{½} = ((**1.0** - **4.0**/**4**) / (**4**-1))^{½} = **0.0**	Compute sd of the last 4 measurements.
3	LCL = $\overline{\mathbf{X}}$ - **tS**/**N**^{½} = **0.5** - **2.353** * **0.0**/**4**^{½} = **0.5**	Compute lower confidence limit for the mean of the last 4 measurements.
4	UCL = $\overline{\mathbf{X}}$ + **tS**/**N**^{½} = **0.5** + **2.353** * **0.0**/**4**^{½} = **0.5**	Compute upper confidence limit for the mean of the last 4 measurements.
5	N' = **N** * (**N**-1) / 2 = **37** * (**37**-1) / 2 = **666**	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 = (**666** ± **2.576** * **0.0**^{½}) / 2 = [**333.0**, **333.0**]	Ordinal positions for two-sided lower confidence limits for slope. The LCL and UCL are the Mth 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** = **2.0** / **4** = **0.5**	Compute the mean of the last 4 measurements.
2	S = ((**sum[X^2]** - **sum[X]**^{2}/**N**) / (**N**-1))^{½} = ((**1.0** - **4.0**/**4**) / (**4**-1))^{½} = **0.0**	Compute sd of the last 4 measurements.
3	LCL = $\overline{\mathbf{X}}$ - **tS**/**N**^{½} = **0.5** - **2.353** * **0.0**/**4**^{½} = **0.5**	Compute lower confidence limit for the mean of the last 4 measurements.
4	UCL = $\overline{\mathbf{X}}$ + **tS**/**N**^{½} = **0.5** + **2.353** * **0.0**/**4**^{½} = **0.5**	Compute upper confidence limit for the mean of the last 4 measurements.
5	N' = **N** * (**N**-1) / 2 = **37** * (**37**-1) / 2 = **666**	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 = (**666** ± **2.576** * **0.0**^{½}) / 2 = [**333.0**, **333.0**]	Ordinal positions for two-sided lower confidence limits for slope. The LCL and UCL are the Mth 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** = **20.0** / **4** = **5.0**	Compute the mean of the last 4 measurements.
2	S = ((**sum[X^2]** - **sum[X]**^{2}/**N**) / (**N**-1))^{½} = ((**100.0** - **400.0**/**4**) / (**4**-1))^{½} = **0.0**	Compute sd of the last 4 measurements.
3	LCL = $\overline{\mathbf{X}}$ - **tS**/**N**^{½} = **5.0** - **2.353** * **0.0**/**4**^{½} = **5.0**	Compute lower confidence limit for the mean of the last 4 measurements.
4	UCL = $\overline{\mathbf{X}}$ + **tS**/**N**^{½} = **5.0** + **2.353** * **0.0**/**4**^{½} = **5.0**	Compute upper confidence limit for the mean of the last 4 measurements.
5	N' = **N** * (**N**-1) / 2 = **37** * (**37**-1) / 2 = **666**	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 = (**666** ± **2.576** * **0.0**^{½}) / 2 = [**333.0**, **333.0**]	Ordinal positions for two-sided lower confidence limits for slope. The LCL and UCL are the Mth 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** = **2.0** / **4** = **0.5**	Compute the mean of the last 4 measurements.
2	S = ((**sum[X^2]** - **sum[X]**^{2}/**N**) / (**N**-1))^{½} = ((**1.0** - **4.0**/**4**) / (**4**-1))^{½} = **0.0**	Compute sd of the last 4 measurements.
3	LCL = $\overline{\mathbf{X}}$ - **tS**/**N**^{½} = **0.5** - **2.353** * **0.0**/**4**^{½} = **0.5**	Compute lower confidence limit for the mean of the last 4 measurements.
4	UCL = $\overline{\mathbf{X}}$ + **tS**/**N**^{½} = **0.5** + **2.353** * **0.0**/**4**^{½} = **0.5**	Compute upper confidence limit for the mean of the last 4 measurements.
5	N' = **N** * (**N**-1) / 2 = **37** * (**37**-1) / 2 = **666**	Number of sample pairs during trend detection period.
6	S = **0.0**	Sen's estimator of trend.
7	var(S) = **456.0**	Variance estimate for slope.
8	M(S) = (**N'** ± **Z**$_{.995}$ * **var(S)**^{½}) / 2 = (**666** ± **2.576** * **456.0**^{½}) / 2 = [**305.496**, **360.504**]	Ordinal positions for two-sided lower confidence limits for slope. The LCL and UCL are the Mth 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** = **13.24** / **4** = **3.31**	Compute the mean of the last 4 measurements.
2	S = ((**sum[X^2]** - **sum[X]**^{2}/**N**) / (**N**-1))^{½} = ((**44.818** - **175.298**/**4**) / (**4**-1))^{½} = **0.575**	Compute sd of the last 4 measurements.
3	LCL = $\overline{\mathbf{X}}$ - **tS**/**N**^{½} = **3.31** - **2.353** * **0.575**/**4**^{½} = **2.633**	Compute lower confidence limit for the mean of the last 4 measurements.
4	UCL = $\overline{\mathbf{X}}$ + **tS**/**N**^{½} = **3.31** + **2.353** * **0.575**/**4**^{½} = **3.987**	Compute upper confidence limit for the mean of the last 4 measurements.
5	N' = **N** * (**N**-1) / 2 = **37** * (**37**-1) / 2 = **666**	Number of sample pairs during trend detection period.
6	S = **-0.021**	Sen's estimator of trend.
7	var(S) = **5835.333**	Variance estimate for slope.
8	M(S) = (**N'** ± **Z**$_{.995}$ * **var(S)**^{½}) / 2 = (**666** ± **2.576** * **5835.333**^{½}) / 2 = [**234.611**, **431.389**]	Ordinal positions for two-sided lower confidence limits for slope. The LCL and UCL are the Mth largest slope estimates for the values shown. When the values are not integers, interpolation is used.
9	CL(S) = [**-0.18**, **0.118**]	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** = **2.0** / **4** = **0.5**	Compute the mean of the last 4 measurements.
2	S = ((**sum[X^2]** - **sum[X]**^{2}/**N**) / (**N**-1))^{½} = ((**1.0** - **4.0**/**4**) / (**4**-1))^{½} = **0.0**	Compute sd of the last 4 measurements.
3	LCL = $\overline{\mathbf{X}}$ - **tS**/**N**^{½} = **0.5** - **2.353** * **0.0**/**4**^{½} = **0.5**	Compute lower confidence limit for the mean of the last 4 measurements.
4	UCL = $\overline{\mathbf{X}}$ + **tS**/**N**^{½} = **0.5** + **2.353** * **0.0**/**4**^{½} = **0.5**	Compute upper confidence limit for the mean of the last 4 measurements.
5	N' = **N** * (**N**-1) / 2 = **37** * (**37**-1) / 2 = **666**	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 = (**666** ± **2.576** * **0.0**^{½}) / 2 = [**333.0**, **333.0**]	Ordinal positions for two-sided lower confidence limits for slope. The LCL and UCL are the Mth 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** = **2.0** / **4** = **0.5**	Compute the mean of the last 4 measurements.
2	S = ((**sum[X^2]** - **sum[X]**^{2}/**N**) / (**N**-1))^{½} = ((**1.0** - **4.0**/**4**) / (**4**-1))^{½} = **0.0**	Compute sd of the last 4 measurements.
3	LCL = $\overline{\mathbf{X}}$ - **tS**/**N**^{½} = **0.5** - **2.353** * **0.0**/**4**^{½} = **0.5**	Compute lower confidence limit for the mean of the last 4 measurements.
4	UCL = $\overline{\mathbf{X}}$ + **tS**/**N**^{½} = **0.5** + **2.353** * **0.0**/**4**^{½} = **0.5**	Compute upper confidence limit for the mean of the last 4 measurements.
5	N' = **N** * (**N**-1) / 2 = **37** * (**37**-1) / 2 = **666**	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 = (**666** ± **2.576** * **0.0**^{½}) / 2 = [**333.0**, **333.0**]	Ordinal positions for two-sided lower confidence limits for slope. The LCL and UCL are the Mth 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** = **2.0** / **4** = **0.5**	Compute the mean of the last 4 measurements.
2	S = ((**sum[X^2]** - **sum[X]**^{2}/**N**) / (**N**-1))^{½} = ((**1.0** - **4.0**/**4**) / (**4**-1))^{½} = **0.0**	Compute sd of the last 4 measurements.
3	LCL = $\overline{\mathbf{X}}$ - **tS**/**N**^{½} = **0.5** - **2.353** * **0.0**/**4**^{½} = **0.5**	Compute lower confidence limit for the mean of the last 4 measurements.
4	UCL = $\overline{\mathbf{X}}$ + **tS**/**N**^{½} = **0.5** + **2.353** * **0.0**/**4**^{½} = **0.5**	Compute upper confidence limit for the mean of the last 4 measurements.
5	N' = **N** * (**N**-1) / 2 = **37** * (**37**-1) / 2 = **666**	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 = (**666** ± **2.576** * **0.0**^{½}) / 2 = [**333.0**, **333.0**]	Ordinal positions for two-sided lower confidence limits for slope. The LCL and UCL are the Mth 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** = **2.0** / **4** = **0.5**	Compute the mean of the last 4 measurements.
2	S = ((**sum[X^2]** - **sum[X]**^{2}/**N**) / (**N**-1))^{½} = ((**1.0** - **4.0**/**4**) / (**4**-1))^{½} = **0.0**	Compute sd of the last 4 measurements.
3	LCL = $\overline{\mathbf{X}}$ - **tS**/**N**^{½} = **0.5** - **2.353** * **0.0**/**4**^{½} = **0.5**	Compute lower confidence limit for the mean of the last 4 measurements.
4	UCL = $\overline{\mathbf{X}}$ + **tS**/**N**^{½} = **0.5** + **2.353** * **0.0**/**4**^{½} = **0.5**	Compute upper confidence limit for the mean of the last 4 measurements.
5	N' = **N** * (**N**-1) / 2 = **37** * (**37**-1) / 2 = **666**	Number of sample pairs during trend detection period.
6	S = **0.0**	Sen's estimator of trend.
7	var(S) = **2043.333**	Variance estimate for slope.
8	M(S) = (**N'** ± **Z**$_{.995}$ * **var(S)**^{½}) / 2 = (**666** ± **2.576** * **2043.333**^{½}) / 2 = [**274.778**, **391.222**]	Ordinal positions for two-sided lower confidence limits for slope. The LCL and UCL are the Mth 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** = **5.92** / **4** = **1.48**	Compute the mean of the last 4 measurements.
2	S = ((**sum[X^2]** - **sum[X]**^{2}/**N**) / (**N**-1))^{½} = ((**9.019** - **35.046**/**4**) / (**4**-1))^{½} = **0.293**	Compute sd of the last 4 measurements.
3	LCL = $\overline{\mathbf{X}}$ - **tS**/**N**^{½} = **1.48** - **2.353** * **0.293**/**4**^{½} = **1.135**	Compute lower confidence limit for the mean of the last 4 measurements.
4	UCL = $\overline{\mathbf{X}}$ + **tS**/**N**^{½} = **1.48** + **2.353** * **0.293**/**4**^{½} = **1.825**	Compute upper confidence limit for the mean of the last 4 measurements.
5	N' = **N** * (**N**-1) / 2 = **37** * (**37**-1) / 2 = **666**	Number of sample pairs during trend detection period.
6	S = **0.016**	Sen's estimator of trend.
7	var(S) = **5677.0**	Variance estimate for slope.
8	M(S) = (**N'** ± **Z**$_{.995}$ * **var(S)**^{½}) / 2 = (**666** ± **2.576** * **5677.0**^{½}) / 2 = [**235.955**, **430.045**]	Ordinal positions for two-sided lower confidence limits for slope. The LCL and UCL are the Mth largest slope estimates for the values shown. When the values are not integers, interpolation is used.
9	CL(S) = [**-0.031**, **0.105**]	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** = **2.0** / **4** = **0.5**	Compute the mean of the last 4 measurements.
2	S = ((**sum[X^2]** - **sum[X]**^{2}/**N**) / (**N**-1))^{½} = ((**1.0** - **4.0**/**4**) / (**4**-1))^{½} = **0.0**	Compute sd of the last 4 measurements.
3	LCL = $\overline{\mathbf{X}}$ - **tS**/**N**^{½} = **0.5** - **2.353** * **0.0**/**4**^{½} = **0.5**	Compute lower confidence limit for the mean of the last 4 measurements.
4	UCL = $\overline{\mathbf{X}}$ + **tS**/**N**^{½} = **0.5** + **2.353** * **0.0**/**4**^{½} = **0.5**	Compute upper confidence limit for the mean of the last 4 measurements.
5	N' = **N** * (**N**-1) / 2 = **37** * (**37**-1) / 2 = **666**	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 = (**666** ± **2.576** * **0.0**^{½}) / 2 = [**333.0**, **333.0**]	Ordinal positions for two-sided lower confidence limits for slope. The LCL and UCL are the Mth 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** = **20.0** / **4** = **5.0**	Compute the mean of the last 4 measurements.
2	S = ((**sum[X^2]** - **sum[X]**^{2}/**N**) / (**N**-1))^{½} = ((**100.0** - **400.0**/**4**) / (**4**-1))^{½} = **0.0**	Compute sd of the last 4 measurements.
3	LCL = $\overline{\mathbf{X}}$ - **tS**/**N**^{½} = **5.0** - **2.353** * **0.0**/**4**^{½} = **5.0**	Compute lower confidence limit for the mean of the last 4 measurements.
4	UCL = $\overline{\mathbf{X}}$ + **tS**/**N**^{½} = **5.0** + **2.353** * **0.0**/**4**^{½} = **5.0**	Compute upper confidence limit for the mean of the last 4 measurements.
5	N' = **N** * (**N**-1) / 2 = **37** * (**37**-1) / 2 = **666**	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 = (**666** ± **2.576** * **0.0**^{½}) / 2 = [**333.0**, **333.0**]	Ordinal positions for two-sided lower confidence limits for slope. The LCL and UCL are the Mth 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** = **2.0** / **4** = **0.5**	Compute the mean of the last 4 measurements.
2	S = ((**sum[X^2]** - **sum[X]**^{2}/**N**) / (**N**-1))^{½} = ((**1.0** - **4.0**/**4**) / (**4**-1))^{½} = **0.0**	Compute sd of the last 4 measurements.
3	LCL = $\overline{\mathbf{X}}$ - **tS**/**N**^{½} = **0.5** - **2.353** * **0.0**/**4**^{½} = **0.5**	Compute lower confidence limit for the mean of the last 4 measurements.
4	UCL = $\overline{\mathbf{X}}$ + **tS**/**N**^{½} = **0.5** + **2.353** * **0.0**/**4**^{½} = **0.5**	Compute upper confidence limit for the mean of the last 4 measurements.
5	N' = **N** * (**N**-1) / 2 = **37** * (**37**-1) / 2 = **666**	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 = (**666** ± **2.576** * **0.0**^{½}) / 2 = [**333.0**, **333.0**]	Ordinal positions for two-sided lower confidence limits for slope. The LCL and UCL are the Mth 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** = **2.0** / **4** = **0.5**	Compute the mean of the last 4 measurements.
2	S = ((**sum[X^2]** - **sum[X]**^{2}/**N**) / (**N**-1))^{½} = ((**1.0** - **4.0**/**4**) / (**4**-1))^{½} = **0.0**	Compute sd of the last 4 measurements.
3	LCL = $\overline{\mathbf{X}}$ - **tS**/**N**^{½} = **0.5** - **2.353** * **0.0**/**4**^{½} = **0.5**	Compute lower confidence limit for the mean of the last 4 measurements.
4	UCL = $\overline{\mathbf{X}}$ + **tS**/**N**^{½} = **0.5** + **2.353** * **0.0**/**4**^{½} = **0.5**	Compute upper confidence limit for the mean of the last 4 measurements.
5	N' = **N** * (**N**-1) / 2 = **37** * (**37**-1) / 2 = **666**	Number of sample pairs during trend detection period.
6	S = **0.0**	Sen's estimator of trend.
7	var(S) = **2043.333**	Variance estimate for slope.
8	M(S) = (**N'** ± **Z**$_{.995}$ * **var(S)**^{½}) / 2 = (**666** ± **2.576** * **2043.333**^{½}) / 2 = [**274.778**, **391.222**]	Ordinal positions for two-sided lower confidence limits for slope. The LCL and UCL are the Mth 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	$\overline{X}$ = **sum[X]** / **N** = **2.81** / **4** = **0.703**	Compute the mean of the last 4 measurements.
2	S = ((**sum[X^2]** - **sum[X]**^{2}/**N**) / (**N**-1))^{½} = ((**2.466** - **7.896**/**4**) / (**4**-1))^{½} = **0.405**	Compute sd of the last 4 measurements.
3	LCL = $\overline{\mathbf{X}}$ - **tS**/**N**^{½} = **0.703** - **2.353** * **0.405**/**4**^{½} = **0.226**	Compute lower confidence limit for the mean of the last 4 measurements.
4	UCL = $\overline{\mathbf{X}}$ + **tS**/**N**^{½} = **0.703** + **2.353** * **0.405**/**4**^{½} = **1.179**	Compute upper confidence limit for the mean of the last 4 measurements.
5	N' = **N** * (**N**-1) / 2 = **37** * (**37**-1) / 2 = **666**	Number of sample pairs during trend detection period.
6	S = **0.0**	Sen's estimator of trend.
7	var(S) = **3283.0**	Variance estimate for slope.
8	M(S) = (**N'** ± **Z**$_{.995}$ * **var(S)**^{½}) / 2 = (**666** ± **2.576** * **3283.0**^{½}) / 2 = [**259.201**, **406.799**]	Ordinal positions for two-sided lower confidence limits for slope. The LCL and UCL are the Mth 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** = **2.0** / **4** = **0.5**	Compute the mean of the last 4 measurements.
2	S = ((**sum[X^2]** - **sum[X]**^{2}/**N**) / (**N**-1))^{½} = ((**1.0** - **4.0**/**4**) / (**4**-1))^{½} = **0.0**	Compute sd of the last 4 measurements.
3	LCL = $\overline{\mathbf{X}}$ - **tS**/**N**^{½} = **0.5** - **2.353** * **0.0**/**4**^{½} = **0.5**	Compute lower confidence limit for the mean of the last 4 measurements.
4	UCL = $\overline{\mathbf{X}}$ + **tS**/**N**^{½} = **0.5** + **2.353** * **0.0**/**4**^{½} = **0.5**	Compute upper confidence limit for the mean of the last 4 measurements.
5	N' = **N** * (**N**-1) / 2 = **37** * (**37**-1) / 2 = **666**	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 = (**666** ± **2.576** * **0.0**^{½}) / 2 = [**333.0**, **333.0**]	Ordinal positions for two-sided lower confidence limits for slope. The LCL and UCL are the Mth 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** = **2.0** / **4** = **0.5**	Compute the mean of the last 4 measurements.
2	S = ((**sum[X^2]** - **sum[X]**^{2}/**N**) / (**N**-1))^{½} = ((**1.0** - **4.0**/**4**) / (**4**-1))^{½} = **0.0**	Compute sd of the last 4 measurements.
3	LCL = $\overline{\mathbf{X}}$ - **tS**/**N**^{½} = **0.5** - **2.353** * **0.0**/**4**^{½} = **0.5**	Compute lower confidence limit for the mean of the last 4 measurements.
4	UCL = $\overline{\mathbf{X}}$ + **tS**/**N**^{½} = **0.5** + **2.353** * **0.0**/**4**^{½} = **0.5**	Compute upper confidence limit for the mean of the last 4 measurements.
5	N' = **N** * (**N**-1) / 2 = **37** * (**37**-1) / 2 = **666**	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 = (**666** ± **2.576** * **0.0**^{½}) / 2 = [**333.0**, **333.0**]	Ordinal positions for two-sided lower confidence limits for slope. The LCL and UCL are the Mth 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** = **2.0** / **4** = **0.5**	Compute the mean of the last 4 measurements.
2	S = ((**sum[X^2]** - **sum[X]**^{2}/**N**) / (**N**-1))$^{1/2}$ = ((**1.0** - **4.0**/**4**) / (**4**-1))$^{1/2}$ = **0.0**	Compute sd of the last 4 measurements.
3	LCL = $\overline{\mathbf{X}}$ - **tS**/**N**$^{1/2}$ = **0.5** - **2.353** * **0.0**/**4**$^{1/2}$ = **0.5**	Compute lower confidence limit for the mean of the last 4 measurements.
4	UCL = $\overline{\mathbf{X}}$ + **tS**/**N**$^{1/2}$ = **0.5** + **2.353** * **0.0**/**4**$^{1/2}$ = **0.5**	Compute upper confidence limit for the mean of the last 4 measurements.
5	N' = **N** * (**N**-1) / 2 = **37** * (**37**-1) / 2 = **666**	Number of sample pairs during trend detection period.
6	S = **0.0**	Sen's estimator of trend.
7	var(S) = **1295.667**	Variance estimate for slope.
8	M(S) = (**N'** ± **Z**$_{.995}$ * **var(S)**$^{1/2}$) / 2 = (**666** ± **2.576** * **1295.667**$^{1/2}$) / 2 = [**286.638**, **379.362**]	Ordinal positions for two-sided lower confidence limits for slope. The LCL and UCL are the Mth 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.

ATTACHMENT C – Pace National Spring 2025 Leachate Analytical Report

ANALYTICAL REPORT

June 03, 2025

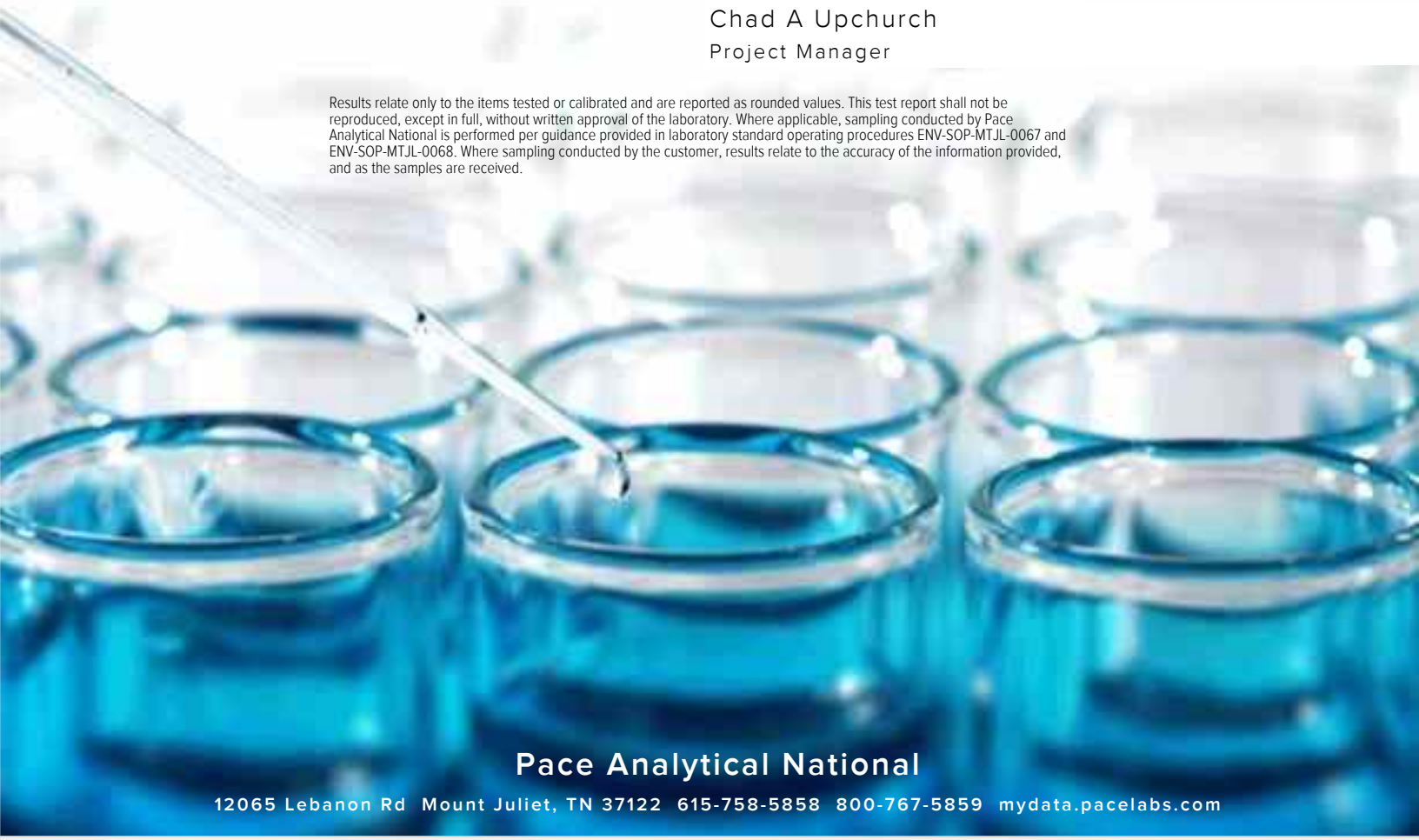
Dickinson Landfill

Sample Delivery Group:	L1857882
Samples Received:	05/13/2025
Project Number:	500
Description:	Leach Concurrent w/SA GW Detect (6)
Site:	IA01
Report To:	Andy McCain C/O Spruce Ridge 12755 137th Street 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
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SAMPLE SUMMARY

LEACHATE (NEW POND) L1857882-01

Collected by: JW
Collected date/time: 05/12/25 12:20
Received date/time: 05/13/25 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 D-2011	WG2513768	1	05/13/25 12:28	05/14/25 17:23	MMF	Mt. Juliet, TN
Wet Chemistry by Method 2320 B-2011	WG2518216	1	05/19/25 13:13	05/19/25 13:13	BJM	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG2514449	50	05/14/25 14:46	05/14/25 14:46	LAS	Mt. Juliet, TN
Wet Chemistry by Method 351.2	WG2519737	100	05/21/25 12:27	05/22/25 19:33	JDW	Mt. Juliet, TN
Wet Chemistry by Method 410.4	WG2514007	2	05/13/25 15:05	05/13/25 21:26	JEG	Mt. Juliet, TN
Wet Chemistry by Method 420.4	WG2518804	5	05/20/25 12:41	05/20/25 20:31	AEC	Mt. Juliet, TN
Wet Chemistry by Method 5210 B-2016	WG2514105	1	05/13/25 16:48	05/18/25 11:53	HMH	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2513705	10	05/14/25 04:37	05/14/25 04:37	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2513705	50	05/14/25 04:51	05/14/25 04:51	ZSA	Mt. Juliet, TN
Mercury by Method 7470A	WG2515742	10	05/15/25 23:24	05/17/25 12:24	LAS	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG2516790	1	05/17/25 22:10	05/19/25 13:21	MAP	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG2516790	1	05/17/25 22:10	05/19/25 18:00	RLS	Mt. Juliet, TN
Metals (ICP) by Method 6010C	WG2516790	5	05/17/25 22:10	05/19/25 18:01	RLS	Mt. Juliet, TN
Metals (ICPMS) by Method 6020A	WG2516885	5	05/20/25 12:58	05/22/25 00:56	UNP	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260C	WG2515848	1	05/15/25 17:18	05/15/25 17:18	DYW	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 laboratory analysis was performed from an unpreserved, insufficiently or inadequately preserved sample.

Batch	Method	Lab Sample ID
WG2514007	410.4	L1857882-01
WG2514449	350.1	L1857882-01
WG2518804	420.4	L1857882-01
WG2519737	351.2	L1857882-01

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
WG2513768	(DUP) R4215284-3	Suspended Solids

Wet Chemistry by Method 351.2

The sample matrix interfered with the ability to make any accurate determination; spike value is high.

Batch	Lab Sample ID	Analytes
WG2519737	(MSD) R4219144-4	Kjeldahl Nitrogen, TKN

Wet Chemistry by Method 420.4

The sample matrix interfered with the ability to make any accurate determination; spike value is low.

Batch	Lab Sample ID	Analytes
WG2518804	(MSD) R4217712-4	Total Phenol by 4AAP

Wet Chemistry by Method 9056A

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
WG2513705	(MS) R4214603-4	Chloride and Sulfate
WG2513705	(MSD) R4214603-5	Chloride and Sulfate

The sample concentration is too high to evaluate accurate spike recoveries.

Batch	Lab Sample ID	Analytes
WG2513705	(MS) R4214603-4, (MSD) R4214603-5	Chloride and Sulfate

Metals (ICP) by Method 6010C

The sample concentration is too high to evaluate accurate spike recoveries.

Batch	Lab Sample ID	Analytes
WG2516790	(MS) R4216915-4, (MSD) R4216915-5	Calcium and Sodium

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
WG2515848	L1857882-01	Bromomethane, Vinyl acetate and Vinyl chloride

The associated batch QC was below the established quality control range for accuracy.

Batch	Lab Sample ID	Analytes
WG2515848	(LCSD) R4216419-3, L1857882-01	Vinyl chloride

The associated batch QC was outside the established quality control range for precision.

Batch	Lab Sample ID	Analytes
WG2515848	(LCSD) R4216419-3, L1857882-01	1,1,2,2-Tetrachloroethane, 1,2-Dibromo-3-Chloropropane, Bromomethane, Chloroethane, Vinyl acetate and Vinyl chloride

Additional Information - Results for field analyses are not accredited to ISO 17025

Analyte	Result	Units
pH (On Site)	8.69	su
Specific Conductance (on site)	13428	umhos/cm
Temperature (on-site)	22.24	Deg. C
Turbidity (on-site)	15.3	NTU
Dissolved Oxygen (on-site)	2.81	mg/l

Gravimetric Analysis by Method 2540 D-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Suspended Solids	102		3.50	1	05/14/2025 17:23	WG2513768

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Alkalinity,Bicarbonate	4160		20.0	1	05/19/2025 13:13	WG2518216
Alkalinity,Carbonate	152		20.0	1	05/19/2025 13:13	WG2518216

Sample Narrative:

L1857882-01 WG2518216: 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	423		1.58	50	05/14/2025 14:46	WG2514449

Wet Chemistry by Method 351.2

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Kjeldahl Nitrogen, TKN	670		3.50	100	05/22/2025 19:33	WG2519737

Wet Chemistry by Method 410.4

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
COD	1070		10.0	2	05/13/2025 21:26	WG2514007

Wet Chemistry by Method 420.4

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Total Phenol by 4AAP	0.0640		0.0415	5	05/20/2025 20:31	WG2518804

Sample Narrative:

L1857882-01 WG2518804: Dilution due to matrix.

Wet Chemistry by Method 5210 B-2016

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
CBOD	14.8		10.0	1	05/18/2025 11:53	WG2514105

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Chloride	1740		2.60	50	05/14/2025 04:51	WG2513705

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Sulfate	705		5.00	10	05/14/2025 04:37	WG2513705

Mercury by Method 7470A

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Mercury	ND		0.000490	10	05/17/2025 12:24	WG2515742

Metals (ICP) by Method 6010C

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Arsenic	0.103		0.0100	1	05/19/2025 13:21	WG2516790
Barium	1.01		0.0200	1	05/19/2025 13:21	WG2516790
Beryllium	ND		0.00400	1	05/19/2025 13:21	WG2516790
Cadmium	ND		0.00500	1	05/19/2025 13:21	WG2516790
Calcium	69.4		1.00	1	05/19/2025 18:00	WG2516790
Chromium	0.0880		0.0100	1	05/19/2025 13:21	WG2516790
Copper	ND		0.0100	1	05/19/2025 13:21	WG2516790
Iron	3.78		0.100	1	05/19/2025 13:21	WG2516790
Lead	ND		0.0100	1	05/19/2025 13:21	WG2516790
Magnesium	161		1.00	1	05/19/2025 13:21	WG2516790
Nickel	0.306		0.0100	1	05/19/2025 13:21	WG2516790
Potassium	379		1.00	1	05/19/2025 13:21	WG2516790
Silver	ND		0.0100	1	05/19/2025 13:21	WG2516790
Sodium	1910		1.00	5	05/19/2025 18:01	WG2516790
Vanadium	0.0836		0.0200	1	05/19/2025 13:21	WG2516790
Zinc	ND		0.0500	1	05/19/2025 13:21	WG2516790

Metals (ICPMS) by Method 6020A

Analyte	Result	Qualifier	RL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Cobalt	0.0320		0.00210	5	05/22/2025 00:56	WG2516885
Antimony	ND		0.00600	5	05/22/2025 00:56	WG2516885
Selenium	ND		0.0100	5	05/22/2025 00:56	WG2516885
Thallium	ND		0.00200	5	05/22/2025 00:56	WG2516885

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	05/15/2025 17:18	WG2515848
1,1,1-Trichloroethane	ND		1.00	1	05/15/2025 17:18	WG2515848
1,1,2,2-Tetrachloroethane	ND	J3	1.00	1	05/15/2025 17:18	WG2515848
1,1,2-Trichloroethane	ND		1.00	1	05/15/2025 17:18	WG2515848
1,1-Dichloroethane	ND		1.00	1	05/15/2025 17:18	WG2515848
1,1-Dichloroethene	ND		1.00	1	05/15/2025 17:18	WG2515848
1,2,3-Trichloropropane	ND		2.50	1	05/15/2025 17:18	WG2515848
1,2-Dibromo-3-Chloropropane	ND	J3	2.50	1	05/15/2025 17:18	WG2515848
1,2-Dibromoethane	ND		1.00	1	05/15/2025 17:18	WG2515848
1,2-Dichlorobenzene	ND		1.00	1	05/15/2025 17:18	WG2515848
1,2-Dichloroethane	ND		1.00	1	05/15/2025 17:18	WG2515848
1,2-Dichloropropane	ND		1.00	1	05/15/2025 17:18	WG2515848
1,4-Dichlorobenzene	ND		1.00	1	05/15/2025 17:18	WG2515848
2-Butanone (MEK)	ND		10.0	1	05/15/2025 17:18	WG2515848
2-Hexanone	ND		5.00	1	05/15/2025 17:18	WG2515848
4-Methyl-2-pentanone (MIBK)	ND		5.00	1	05/15/2025 17:18	WG2515848

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	05/15/2025 17:18	WG2515848
Acrylonitrile	ND		5.00	1	05/15/2025 17:18	WG2515848
Benzene	ND		1.00	1	05/15/2025 17:18	WG2515848
Bromochloromethane	ND		1.00	1	05/15/2025 17:18	WG2515848
Bromodichloromethane	ND		1.00	1	05/15/2025 17:18	WG2515848
Bromoform	ND		1.00	1	05/15/2025 17:18	WG2515848
Bromomethane	ND	C3 J3	2.50	1	05/15/2025 17:18	WG2515848
Carbon disulfide	ND		1.00	1	05/15/2025 17:18	WG2515848
Carbon tetrachloride	ND		1.00	1	05/15/2025 17:18	WG2515848
Chlorobenzene	ND		1.00	1	05/15/2025 17:18	WG2515848
Chloroethane	ND	J3	2.50	1	05/15/2025 17:18	WG2515848
Chloroform	ND		1.00	1	05/15/2025 17:18	WG2515848
Chloromethane	ND		1.25	1	05/15/2025 17:18	WG2515848
Dibromochloromethane	ND		1.00	1	05/15/2025 17:18	WG2515848
Dibromomethane	ND		1.00	1	05/15/2025 17:18	WG2515848
Ethylbenzene	ND		1.00	1	05/15/2025 17:18	WG2515848
Iodomethane	ND		5.00	1	05/15/2025 17:18	WG2515848
Methylene Chloride	ND		2.50	1	05/15/2025 17:18	WG2515848
Styrene	ND		1.00	1	05/15/2025 17:18	WG2515848
Tetrachloroethene	ND		1.00	1	05/15/2025 17:18	WG2515848
Toluene	ND		1.00	1	05/15/2025 17:18	WG2515848
Trichloroethene	ND		1.00	1	05/15/2025 17:18	WG2515848
Trichlorofluoromethane	ND		2.50	1	05/15/2025 17:18	WG2515848
Vinyl acetate	ND	C3 J3	5.00	1	05/15/2025 17:18	WG2515848
Vinyl chloride	ND	C3 J3 J4	1.00	1	05/15/2025 17:18	WG2515848
Xylenes, Total	ND		3.00	1	05/15/2025 17:18	WG2515848
cis-1,2-Dichloroethene	ND		1.00	1	05/15/2025 17:18	WG2515848
cis-1,3-Dichloropropene	ND		1.00	1	05/15/2025 17:18	WG2515848
trans-1,2-Dichloroethene	ND		1.00	1	05/15/2025 17:18	WG2515848
trans-1,3-Dichloropropene	ND		1.00	1	05/15/2025 17:18	WG2515848
trans-1,4-Dichloro-2-butene	ND		5.00	1	05/15/2025 17:18	WG2515848
(S) 4-Bromofluorobenzene	*108*			*77.0-126*	*05/15/2025 17:18*	WG2515848
(S) Toluene-d8	*103*			*80.0-120*	*05/15/2025 17:18*	WG2515848
(S) 1,2-Dichloroethane-d4	*102*			*70.0-130*	*05/15/2025 17:18*	WG2515848

Method Blank (MB)

(MB) R4215284-1 05/14/25 17:23

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Suspended Solids	ND		0.350	2.50

L1857755-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1857755-04 05/14/25 17:23 • (DUP) R4215284-3 05/14/25 17:23

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Suspended Solids	39.6	44.6	1	11.9	J3	10

Sample Narrative:

OS: Used all contents of sample.

DUP: Used all contents of sample.

L1857887-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1857887-01 05/14/25 17:23 • (DUP) R4215284-4 05/14/25 17:23

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Suspended Solids	28.2	29.0	1	2.80		10

Laboratory Control Sample (LCS)

(LCS) R4215284-2 05/14/25 17:23

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Suspended Solids	773	812	105	85.0-115	

Method Blank (MB)

(MB) R4217070-2 05/19/25 12:44

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Alkalinity,Bicarbonate	ND		2.71	20.0
Alkalinity,Carbonate	ND		2.71	20.0

Sample Narrative:

BLANK: Endpoint pH 4.5

L1859636-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1859636-01 05/19/25 13:02 • (DUP) R4217070-3 05/19/25 13:07

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Alkalinity,Bicarbonate	129	127	1	1.52		20
Alkalinity,Carbonate	ND	ND	1	0.000		20

Sample Narrative:

OS: Endpoint pH 4.5 Headspace

DUP: Endpoint pH 4.5

L1860251-09 Original Sample (OS) • Duplicate (DUP)

(OS) L1860251-09 05/19/25 15:15 • (DUP) R4217070-4 05/19/25 15:22

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Alkalinity,Bicarbonate	350	353	1	1.12		20
Alkalinity,Carbonate	ND	ND	1	0.000		20

Sample Narrative:

OS: Endpoint pH 4.5 Headspace

DUP: Endpoint pH 4.5

Method Blank (MB)

(MB) R4214774-1 05/14/25 14:01

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Ammonia Nitrogen	ND		0.0317	0.100

L1857728-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1857728-01 05/14/25 14:14 • (DUP) R4214774-3 05/14/25 14:20

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Ammonia Nitrogen	0.599	0.607	1	1.33		10

L1857728-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1857728-02 05/14/25 14:25 • (DUP) R4214774-6 05/14/25 14:26

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Ammonia Nitrogen	0.835	0.844	1	1.07		10

Laboratory Control Sample (LCS)

(LCS) R4214774-2 05/14/25 14:02

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Ammonia Nitrogen	7.50	7.74	103	90.0-110	

L1857728-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1857728-01 05/14/25 14:14 • (MS) R4214774-4 05/14/25 14:22 • (MSD) R4214774-5 05/14/25 14:23

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	0.599	5.86	6.11	105	110	1	90.0-110			4.31	10

L1857728-02 Original Sample (OS) • Matrix Spike (MS)

(OS) L1857728-02 05/14/25 14:25 • (MS) R4214774-7 05/14/25 14:28

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Ammonia Nitrogen	5.00	0.835	6.10	105	1	90.0-110	

Method Blank (MB)

(MB) R4219144-1 05/22/25 19:03

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Kjeldahl Nitrogen, TKN	0.0955		0.0350	0.250

L1857941-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1857941-01 05/22/25 19:26 • (DUP) R4219144-7 05/22/25 19:27

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Kjeldahl Nitrogen, TKN	5.15	4.55	1	12.4		20

Laboratory Control Sample (LCS)

(LCS) R4219144-2 05/22/25 19:05

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Kjeldahl Nitrogen, TKN	10.8	10.4	95.9	90.0-110	

L1857782-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1857782-01 05/22/25 19:10 • (MS) R4219144-3 05/22/25 19:10 • (MSD) R4219144-4 05/22/25 19:11

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 %
Kjeldahl Nitrogen, TKN	5.00	0.308	5.61	6.27	106	119	1	90.0-110		J5	11.2	20

L1857787-01 Original Sample (OS) • Matrix Spike (MS)

(OS) L1857787-01 05/22/25 19:12 • (MS) R4219144-5 05/22/25 19:14

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Kjeldahl Nitrogen, TKN	5.00	1.74	6.25	90.2	1	90.0-110	

Method Blank (MB)

(MB) R4214244-1 05/13/25 21:23

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
COD	ND		3.00	10.0

L1857882-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1857882-01 05/13/25 21:26 • (DUP) R4214244-7 05/13/25 21:26

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
COD	1070	1030	2	3.97		20

L1857883-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1857883-01 05/13/25 21:26 • (DUP) R4214244-8 05/13/25 21:26

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
COD	631	595	1	5.85		20

Laboratory Control Sample (LCS)

(LCS) R4214244-2 05/13/25 21:23

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
COD	500	501	100	90.0-110	

L1857674-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1857674-01 05/13/25 21:23 • (MS) R4214244-3 05/13/25 21:23 • (MSD) R4214244-4 05/13/25 21:24

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	23.3	527	527	101	101	1	90.0-110			0.108	20

L1857674-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1857674-02 05/13/25 21:24 • (MS) R4214244-5 05/13/25 21:24 • (MSD) R4214244-6 05/13/25 21:24

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	12.7	523	511	105	102	1	90.0-110			2.34	20

Method Blank (MB)

(MB) R4217712-1 05/20/25 20:29

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Total Phenol by 4AAP	ND		0.00830	0.0400

Laboratory Control Sample (LCS)

(LCS) R4217712-2 05/20/25 20:29

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Phenol by 4AAP	1.00	0.920	92.0	90.0-110	

L1857926-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1857926-02 05/20/25 20:32 • (MS) R4217712-3 05/20/25 20:33 • (MSD) R4217712-4 05/20/25 20:33

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 %
Total Phenol by 4AAP	1.00	0.109	1.01	1.00	90.1	89.1	1	90.0-110		J6	0.995	20

Method Blank (MB)

(MB) R4216433-1 05/18/25 08:18

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
CBOD	ND		0.200	0.200

L1857876-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1857876-02 05/18/25 11:46 • (DUP) R4216433-3 05/18/25 11:48

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
CBOD	3.58	3.48	1	2.83		30

Laboratory Control Sample (LCS)

(LCS) R4216433-2 05/18/25 08:30

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
CBOD	198	191	96.2	84.6-115	

Laboratory Control Sample (LCS)

(LCS) R4216433-4 05/18/25 11:55

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
CBOD	198	216	109	84.6-115	

Method Blank (MB)

(MB) R4214603-1 05/13/25 23:27

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Chloride	0.146		0.0519	1.00
Sulfate	0.196		0.0774	5.00

L1857887-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1857887-01 05/14/25 05:04 • (DUP) R4214603-6 05/14/25 05:18

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	5.92	5.72	1	3.43		15
Sulfate	5.68	5.62	1	1.13		15

L1857933-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1857933-01 05/14/25 08:13 • (DUP) R4214603-8 05/14/25 08:27

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	4460	4490	100	0.720		15
Sulfate	4890	4930	100	0.820		15

Laboratory Control Sample (LCS)

(LCS) R4214603-2 05/13/25 23:40

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	40.0	39.1	97.7	80.0-120	
Sulfate	40.0	40.5	101	80.0-120	

L1857933-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1857933-01 05/14/25 02:36 • (MS) R4214603-4 05/14/25 03:03 • (MSD) R4214603-5 05/14/25 03:16

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 %
Chloride	40.0	4470	3530	3530	0.000	0.000	10	80.0-120	E V	E V	0.0200	15
Sulfate	40.0	4600	3660	3670	0.000	0.000	10	80.0-120	E V	E V	0.294	15

Sample Narrative:

OS: Dilution due to matrix impact on instrumentation at lower dilution

L1857887-01 Original Sample (OS) • Matrix Spike (MS)

(OS) L1857887-01 05/14/25 05:04 • (MS) R4214603-7 05/14/25 05:31

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	40.0	5.92	42.8	92.2	1	80.0-120	
Sulfate	40.0	5.68	43.8	95.2	1	80.0-120	

Method Blank (MB)

(MB) R4216248-1 05/17/25 12:08

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) R4216248-2 05/17/25 12:11

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Mercury	0.00300	0.00295	98.3	80.0-120	

L1858764-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1858764-01 05/17/25 12:13 • (MS) R4216248-4 05/17/25 12:19 • (MSD) R4216248-5 05/17/25 12:21

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	0.00297	0.00298	99.0	99.2	1	75.0-125			0.152	20

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Method Blank (MB)

(MB) R4216915-1 05/19/25 12:46

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Arsenic	0.00662		0.00650	0.0100
Barium	ND		0.00170	0.00500
Beryllium	ND		0.000700	0.00200
Cadmium	ND		0.000700	0.00200
Calcium	ND		0.0463	1.00
Chromium	ND		0.00140	0.0100
Copper	ND		0.00530	0.0100
Iron	ND		0.0141	0.100
Lead	ND		0.00190	0.00500
Magnesium	0.0124		0.0111	1.00
Nickel	ND		0.00490	0.0100
Potassium	ND		0.102	1.00
Silver	ND		0.00280	0.00500
Sodium	0.229		0.0111	1.00
Vanadium	ND		0.00240	0.0200
Zinc	ND		0.00590	0.0500

Laboratory Control Sample (LCS)

(LCS) R4216915-2 05/19/25 12:47

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic	1.00	1.09	109	80.0-120	
Barium	1.00	1.07	107	80.0-120	
Beryllium	1.00	1.09	109	80.0-120	
Cadmium	1.00	1.03	103	80.0-120	
Calcium	10.0	10.2	102	80.0-120	
Chromium	1.00	1.06	106	80.0-120	
Copper	1.00	1.08	108	80.0-120	
Iron	10.0	10.1	101	80.0-120	
Lead	1.00	1.02	102	80.0-120	
Magnesium	10.0	10.0	100	80.0-120	
Nickel	1.00	1.03	103	80.0-120	
Potassium	10.0	10.3	103	80.0-120	
Silver	0.200	0.215	107	80.0-120	
Sodium	10.0	10.2	102	80.0-120	
Vanadium	1.00	1.04	104	80.0-120	
Zinc	1.00	1.08	108	80.0-120	

L1857591-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1857591-06 05/19/25 12:49 • (MS) R4216915-4 05/19/25 12:53 • (MSD) R4216915-5 05/19/25 12:54

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 %
Arsenic	1.00	0.0349	1.17	1.19	113	115	1	75.0-125			1.64	20
Barium	1.00	1.13	2.16	2.16	103	103	1	75.0-125			0.160	20
Beryllium	1.00	ND	1.08	1.09	108	109	1	75.0-125			1.27	20
Cadmium	1.00	ND	1.07	1.07	107	107	1	75.0-125			0.635	20
Calcium	10.0	620	626	612	59.0	0.000	1	75.0-125	V	V	2.27	20
Chromium	1.00	ND	1.05	1.05	105	105	1	75.0-125			0.237	20
Copper	1.00	ND	1.08	1.11	108	111	1	75.0-125			2.17	20
Iron	10.0	39.2	49.9	49.4	107	102	1	75.0-125			1.09	20
Lead	1.00	ND	0.995	1.00	99.5	100	1	75.0-125			0.743	20
Magnesium	10.0	168	180	178	122	102	1	75.0-125			1.09	20
Nickel	1.00	ND	1.02	1.04	102	104	1	75.0-125			1.41	20
Potassium	10.0	10.4	21.3	21.3	109	109	1	75.0-125			0.0656	20
Silver	0.200	ND	0.222	0.226	109	111	1	75.0-125			1.76	20
Sodium	10.0	496	496	492	4.01	0.000	1	75.0-125	V	V	0.953	20
Vanadium	1.00	ND	1.04	1.05	104	105	1	75.0-125			0.888	20
Zinc	1.00	ND	0.990	0.996	99.0	99.6	1	75.0-125			0.665	20

Method Blank (MB)

(MB) R4218479-1 05/22/25 00:49

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) R4218479-2 05/22/25 00:52

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Cobalt	0.0500	0.0512	102	80.0-120	
Antimony	0.0500	0.0496	99.3	80.0-120	
Selenium	0.0500	0.0480	96.0	80.0-120	
Thallium	0.0500	0.0502	100	80.0-120	

L1857933-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1857933-01 05/22/25 02:55 • (MS) R4218479-7 05/22/25 03:01 • (MSD) R4218479-8 05/22/25 03:04

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	0.00537	0.0509	0.0522	91.1	93.7	5	75.0-125			2.51	20
Antimony	0.0500	ND	0.0492	0.0522	98.5	104	5	75.0-125			5.79	20
Selenium	0.0500	ND	0.0469	0.0490	93.8	98.0	5	75.0-125			4.44	20
Thallium	0.0500	ND	0.0475	0.0477	95.0	95.5	5	75.0-125			0.476	20

Method Blank (MB)

(MB) R4216419-2 05/15/25 10:35

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
1,1,1,2-Tetrachloroethane	ND		0.147	0.500
1,1,1-Trichloroethane	ND		0.149	0.500
1,1,2,2-Tetrachloroethane	ND		0.133	0.500
1,1,2-Trichloroethane	ND		0.158	0.500
1,1-Dichloroethane	ND		0.100	0.500
1,1-Dichloroethene	ND		0.188	0.500
1,2,3-Trichloropropane	ND		0.237	2.50
1,2-Dibromo-3-Chloropropane	ND		0.276	2.50
1,2-Dibromoethane	ND		0.126	0.500
1,2-Dichlorobenzene	ND		0.107	0.500
1,2-Dichloroethane	ND		0.0819	0.500
1,2-Dichloropropane	ND		0.149	0.500
1,4-Dichlorobenzene	ND		0.120	0.500
2-Butanone (MEK)	ND		1.19	5.00
2-Hexanone	ND		0.787	5.00
4-Methyl-2-pentanone (MIBK)	ND		0.478	5.00
Acetone	ND		11.3	25.0
Acrylonitrile	ND		0.671	5.00
Benzene	ND		0.0941	0.500
Bromochloromethane	ND		0.128	0.500
Bromodichloromethane	ND		0.136	0.500
Bromoform	ND		0.129	0.500
Bromomethane	ND		0.605	2.50
Carbon disulfide	ND		0.0962	0.500
Carbon tetrachloride	ND		0.128	0.500
Chlorobenzene	ND		0.117	0.500
Chloroethane	ND		0.192	2.50
Chloroform	ND		0.111	0.500
Chloromethane	ND		0.960	1.25
Dibromochloromethane	ND		0.140	0.500
Dibromomethane	ND		0.122	0.500
Ethylbenzene	ND		0.137	0.500
Iodomethane	ND		0.554	5.00
Methylene Chloride	ND		0.430	2.50
Styrene	ND		0.118	0.500
Tetrachloroethene	ND		0.300	0.500
Toluene	ND		0.278	0.500
Trichloroethene	ND		0.190	0.500
Trichlorofluoromethane	ND		0.160	2.50
Vinyl acetate	ND		0.692	5.00

Method Blank (MB)

(MB) R4216419-2 05/15/25 10:35

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Vinyl chloride	ND		0.234	0.500
Xylenes, Total	ND		0.174	1.50
cis-1,2-Dichloroethene	ND		0.126	0.500
cis-1,3-Dichloropropene	ND		0.111	0.500
trans-1,2-Dichloroethene	ND		0.149	0.500
trans-1,3-Dichloropropene	ND		0.118	0.500
trans-1,4-Dichloro-2-butene	ND		0.467	5.00
(S) 4-Bromofluorobenzene	*102*			*77.0-126*
(S) Toluene-d8	*90.3*			*80.0-120*
(S) 1,2-Dichloroethane-d4	*104*			*70.0-130*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4216419-1 05/15/25 09:29 • (LCSD) R4216419-3 05/15/25 12:07

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	5.00	4.99	4.89	99.8	97.8	75.0-125			2.02	20
1,1,1-Trichloroethane	5.00	4.83	4.59	96.6	91.8	73.0-124			5.10	20
1,1,2,2-Tetrachloroethane	5.00	4.72	5.79	94.4	116	65.0-130		J3	20.4	20
1,1,2-Trichloroethane	5.00	5.17	5.24	103	105	80.0-120			1.34	20
1,1-Dichloroethane	5.00	4.80	4.73	96.0	94.6	70.0-126			1.47	20
1,1-Dichloroethene	5.00	4.46	4.35	89.2	87.0	71.0-124			2.50	20
1,2,3-Trichloropropane	5.00	5.64	5.40	113	108	73.0-130			4.35	20
1,2-Dibromo-3-Chloropropane	5.00	6.05	4.46	121	89.2	58.0-134		J3	30.3	20
1,2-Dibromoethane	5.00	5.13	5.02	103	100	80.0-122			2.17	20
1,2-Dichlorobenzene	5.00	4.79	4.08	95.8	81.6	79.0-121			16.0	20
1,2-Dichloroethane	5.00	4.85	4.25	97.0	85.0	70.0-128			13.2	20
1,2-Dichloropropane	5.00	5.12	4.70	102	94.0	77.0-125			8.55	20
1,4-Dichlorobenzene	5.00	5.29	5.09	106	102	79.0-120			3.85	20
2-Butanone (MEK)	25.0	28.7	29.0	115	116	44.0-160			1.04	20
2-Hexanone	25.0	23.8	25.5	95.2	102	67.0-149			6.90	20
4-Methyl-2-pentanone (MIBK)	25.0	29.5	28.8	118	115	68.0-142			2.40	20
Acetone	25.0	30.7	32.2	123	129	19.0-160			4.77	27
Acrylonitrile	25.0	31.0	32.2	124	129	55.0-149			3.80	20
Benzene	5.00	4.73	4.74	94.6	94.8	70.0-123			0.211	20
Bromochloromethane	5.00	4.84	4.89	96.8	97.8	76.0-122			1.03	20
Bromodichloromethane	5.00	4.88	4.45	97.6	89.0	75.0-120			9.22	20
Bromoform	5.00	5.21	5.16	104	103	68.0-132			0.964	20
Bromomethane	5.00	3.06	2.16	61.2	43.2	10.0-160		J J3	34.5	25

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4216419-1 05/15/25 09:29 • (LCSD) R4216419-3 05/15/25 12:07

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 %
Carbon disulfide	5.00	4.32	4.31	86.4	86.2	61.0-128			0.232	20
Carbon tetrachloride	5.00	4.92	4.88	98.4	97.6	68.0-126			0.816	20
Chlorobenzene	5.00	4.72	4.90	94.4	98.0	80.0-121			3.74	20
Chloroethane	5.00	4.09	3.04	81.8	60.8	47.0-150		J3	29.5	20
Chloroform	5.00	4.57	4.33	91.4	86.6	73.0-120			5.39	20
Chloromethane	5.00	5.56	5.08	111	102	41.0-142			9.02	20
Dibromochloromethane	5.00	5.34	5.04	107	101	77.0-125			5.78	20
Dibromomethane	5.00	4.90	4.55	98.0	91.0	80.0-120			7.41	20
Ethylbenzene	5.00	4.69	4.86	93.8	97.2	79.0-123			3.56	20
Iodomethane	25.0	22.2	23.2	88.8	92.8	33.0-147			4.41	26
Methylene Chloride	5.00	4.62	4.95	92.4	99.0	67.0-120			6.90	20
Styrene	5.00	4.82	4.97	96.4	99.4	73.0-130			3.06	20
Tetrachloroethene	5.00	4.69	4.92	93.8	98.4	72.0-132			4.79	20
Toluene	5.00	4.87	5.02	97.4	100	79.0-120			3.03	20
Trichloroethene	5.00	4.90	4.57	98.0	91.4	78.0-124			6.97	20
Trichlorofluoromethane	5.00	4.33	3.55	86.6	71.0	59.0-147			19.8	20
Vinyl acetate	25.0	10.6	31.6	42.4	126	11.0-160		J3	99.5	20
Vinyl chloride	5.00	3.86	3.07	77.2	61.4	67.0-131		J3 J4	22.8	20
Xylenes, Total	15.0	14.1	14.7	94.0	98.0	79.0-123			4.17	20
cis-1,2-Dichloroethene	5.00	4.77	4.94	95.4	98.8	73.0-120			3.50	20
cis-1,3-Dichloropropene	5.00	4.72	4.75	94.4	95.0	80.0-123			0.634	20
trans-1,2-Dichloroethene	5.00	4.57	4.73	91.4	94.6	73.0-120			3.44	20
trans-1,3-Dichloropropene	5.00	4.78	4.71	95.6	94.2	78.0-124			1.48	20
trans-1,4-Dichloro-2-butene	5.00	4.68	5.43	93.6	109	33.0-144	J		14.8	20
(S) 4-Bromofluorobenzene				*113*	*101*	*77.0-126*				
(S) Toluene-d8				*103*	*106*	*80.0-120*				
(S) 1,2-Dichloroethane-d4				*102*	*89.8*	*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.
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.
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.
J4	The associated batch QC was outside the established quality control range for accuracy.
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
V	The sample concentration is too high to evaluate accurate spike recoveries.

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:
Sam Kanakkanatt 320-864-5503

Email To:
ddemory@wm.com;skanakka@wm.com;cory.a

Project Description:
Leach Concurrent w/SA GW Detect (6)

City/State Collected: Iowa

Please Circle: PT MT CT ET

Regulatory Program(DOD,RCRA,DW,etc):

Client Project #
500

Lab Project #
WMDICIA-00002

Collected by (print):
JH

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	ALK,Cl,S 250mlHDPE-NoPres	CBODLL 500mlHDPE-NoPres	COD, TKN 250mlHDPE-H2SO4	Metals 250mlHDPE-HNO3	NH3 250mlHDPENaThioH2SO4	PHT 250mlAmb-H2SO4	TSS 1L-HDPE NoPres	V8260LLC 40mlAmb-HCl			Remarks	Sample # (lab only)
									<2	<2	<2	<2						
LEACHATE (NEW POND)		GW	-	5-12-25	1220	10	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 # L1857882

B108

Acctnum: **WMDICIA**
Template: **T167669**
Prelogin: **P1140301**
PM: **3564 - Chad A Upchurch**
PB: 4/21/25 cam
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 #

PM - 108-17631
TRC - 3227A151

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
	5-12-25	1400		1	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received:	
				0.5+0.4=0.9 10	
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: Time:	Hold: Condition: NCF / OK
			Christopher S. Gallin	5/13/25 0900	

FIELD INFORMATION FORM

Surface Water, Stormwater and Leachate

WASTE MANAGEMENT

Laboratory Use Only / Lab I.D.: LA5577682

Site Name: Dickinson LF

Sample I.D.: Leachate Pond

Sampling Method & Equipment

Purge and Sample Equipment:

Sampling Method: D (D - Direct, I - Indirect, V - Visual)

Sampling Equipment: X (D - Dipper, T - Transfer Vessel, S - Sample Bottle, O - Other: whale)

Sample Type: [ ] 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)
5-12-2025	1220	8.69	13428	22.24	15.3	2.81	

Record final stabilized field readings.

Field Observations

Sample Appearance: Odor: Chemical Color: black Other:

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: S-15 Precipitation: [Y] or [N]

Specific Comments:

Date	Name	Signature	Company
5/12/25	JH		MUTL