



engineers | scientists | innovators

3rd QUARTER 2025 GROUNDWATER AND LEACHATE MONITORING REPORT

KEKAHA LANDFILL PHASE I AND PHASE II KEKAHA, KAUA‘I, HAWAI‘I

Prepared for

County of Kaua‘i
Department of Public Works
Solid Waste Management Division
Kekaha Landfill, Phase I and Phase II
6900-D Kaumuali‘i Highway
Kekaha, Hawai‘i 96752

Prepared by

Geosyntec Consultants, Inc.
920 SW 6th Avenue, #600
Portland, Oregon 97204

Project Number: WG3074

25 November 2025

TABLE OF CONTENTS

1.	INTRODUCTION AND BACKGROUND	1
1.1	Monitoring Plan Update.....	1
1.2	Elevation Datum	2
1.3	Phase I Landfill	2
1.4	Phase II Landfill.....	3
1.5	Site Setting.....	4
2.	LANDFILL QUARTERLY GROUNDWATER MONITORING.....	7
2.1	Field Monitoring Activities.....	7
2.2	Laboratory Analyses of Monitoring Well Groundwater Samples	9
2.3	Groundwater Monitoring Results	10
2.3.1	Groundwater Flow Direction	10
2.3.2	Groundwater Sample Analyses.....	10
2.3.3	Phase I Landfill Monitoring Wells	12
2.3.4	Phase II Landfill Monitoring Wells	13
2.3.5	Evaluation of Groundwater Data Quality	14
2.4	Monitoring Results Summary and Conclusions	20
2.5	Phase I Quarterly Site Inspection.....	23
3.	LEACHATE MONITORING.....	24
4.	REFERENCES	25

LIST OF TABLES

Table 1: Groundwater Level Data (17 August 2025)	9
Table 2: Summary of Groundwater Analytical Results (18 and 19 August and 1 September 2025)	17

LIST OF FIGURES

Figure 1: Site Location Map	5
Figure 2: Site Layout	6
Figure 3: Groundwater Contour Map (17 August 2025)	8

LIST OF APPENDICES

Appendix A: Field Information Forms
Appendix B: Historical Analytical Data for Phase 1 Groundwater Monitoring Wells
Appendix C: Eurofins TestAmerica-Denver Laboratory Reports (on CD)
Appendix D: Statistical Evaluation of Phase II Data

ACRONYMS AND ABBREVIATIONS

µg/L	micrograms per liter
µS/cm	microSiemens per centimeter
AECOM	AECOM Technical Services, Inc.
ASD	alternative source demonstration
ASTM	American Society of Testing Materials
CFR	Code of Federal Regulations
COD	chemical oxygen demand
County	County of Kaua‘i Department of Public Works
CUSUM	Shewhart-Cumulative Sum
DOH	Department of Health, State of Hawaii
DUP	duplicate
EAL	Environmental Action Level
FB	field blank
ft	foot or feet
Geosyntec	Geosyntec Consultants, Inc.
GMP	Groundwater and Leachate Monitoring Plan
HAR	Hawai‘i Administrative Rules
J	Result is less than the reporting limit, but greater than or equal to the method detection limit, so the concentration is approximate
KLF	Kekaha Municipal Solid Waste Landfill
MB	method blank
MCL	maximum contaminant level
MDL	method detection limit
mg/L	milligrams per liter
msl	mean sea level
MSW	municipal solid waste
N	nitrogen
ND	non-detect
NTU	nephelometric turbidity unit
ORP	oxidation reduction potential
PVC	polyvinylchloride
RL	reporting limit
RPD	relative percent difference
SHWB	Solid and Hazardous Waste Branch
SSIs	statistically significant increases
SU	standard unit

TA	Eurofins TestAmerica-Denver
TB	trip blank
TDS	total dissolved solids
TOC	total organic carbon
USEPA	United States Environmental Protection Agency
VOCs	volatile organic compounds

1. INTRODUCTION AND BACKGROUND

This report presents the results of the Third Quarter 2025 groundwater and leachate monitoring event completed by Geosyntec Consultants, Inc. (Geosyntec) for the Kekaha Municipal Solid Waste Landfill (KLF, Figure 1 and Figure 2). Field measurements were conducted between the 18th and 19th of August as well as on the 1st of September. The Third Quarter 2025 groundwater and leachate monitoring event was conducted in accordance with the Solid Waste Management Permit No. LF-0042-16 issued by the Hawai‘i Department of Health (DOH) (DOH, 2019). The purpose of the groundwater and leachate monitoring is to evaluate whether past and/or present municipal solid waste disposal operations have impacted groundwater quality within the coastal plain aquifer beneath the KLF.

1.1 Monitoring Plan Update

The KLF Solid Waste Management Permit No. LF-0042.16 section II.G.9 requires an update of the Groundwater and Leachate Monitoring Plan (GMP) Kekaha Sanitary Landfill (AECOM, 2017) within six months of the solid waste permit issuance. An updated GMP (Geosyntec, 2020) was submitted to the DOH on 12 March 2020. Subsequent correspondence on updates to the GMP, which also discusses updates to the Quarterly Monitoring Reports, includes the following documents:

- Comments from the DOH in a letter dated 6 August 2021 (DOH, 2021);
- Summary of Background Reevaluation for Intra-Well Statistics, Geosyntec, 21 July 2022 (Geosyntec, 2022);
- Responses by the County of Kaua‘i Department of Public Works (County) to the DOH comments on the updated Draft GMP, 12 August 2022 (County, 2022);
- A meeting of the DOH, the County, and Geosyntec on 31 August 2022 to discuss the DOH comments on the updated Draft GMP and the updates to the groundwater monitoring network;
- DOH Letter to the County dated 3 October 2022 presenting their review of (DOH, 2022):
 - The County’s 12 August 2022 response to DOH comments on the Draft GMP;
 - Geosyntec’s Summary of Background Reevaluation for Intra-Well Statistics; and
 - The 2nd Quarter 2022 Monitoring Report.
- Discussion by the County and Geosyntec on 14 October 2022 to prepare a response to the additional comments and requests by the DOH; and
- County letter to the DOH dated 6 February 2023 presenting a status update and response to additional comments on the GMP, which includes documentation of agreement that

beginning in 2023, the monitoring reports will address the Phase I and II landfills together rather than including separate sections in the report for each (County, 2023).

In accordance with previous and the recently submitted Monitoring Plan(s) (Geosyntec, 2020), statistical evaluation of the groundwater monitoring data is conducted using DUMPStat statistical modeling software,¹ which facilitates application of the methodology presented in “Statistical Methods for Groundwater Monitoring” (Gibbons, 1994) and is consistent with United States Environmental Protection Agency (USEPA) and American Society of Testing Materials (ASTM) international guidance on groundwater monitoring at Subtitle D and Subtitle C facilities (DOH, 2002).

As discussed with the DOH, the County plans to submit an updated GMP that incorporates background updates based on eight quarters of data collected from two new monitoring wells mauka (inland) of the highway. A Right of Entry access agreement has been obtained from the mauka property owner and well installation is planned for fourth quarter 2025.

1.2 Elevation Datum

Elevation references in this report are in feet above mean sea level (ft above msl) and are based on elevation data provided by Waste Management from 11 May 2018 and 29 June 2019 survey elevations. This survey information uses the United States Geological Survey brass monument G1000 plus 1.21 ft, as is described in KLF Solid Waste Management Permit No. LF-0042.16.

1.3 Phase I Landfill

The KLF Phase I (Figure 2) is a closed municipal solid waste (MSW) unlined landfill that began accepting solid waste in 1953 and ceased operations on 8 October 1993. The facility is owned and operated by the County. Groundwater monitoring is currently conducted quarterly in accordance with assessment monitoring specified in the *Closure/Post Closure Plan* (HLA, 1994) and *Groundwater and Leachate Monitoring Plan Kekaha Sanitary Landfill* (AECOM, 2017). Subsequent to the first quarter 2020 monitoring event, a revised GMP was submitted (Geosyntec, 2020) that will be applicable to future monitoring events once approved by the DOH.

Phase I landfill closure construction commenced on 20 May 1994 and was completed on 13 February 1995. Closure construction activities were documented in the *Postconstruction Report, Kekaha Sanitary Landfill, Phase I Closure, Kekaha, Kaua‘i, Hawai‘i* (HLA, 1996). The final cover was designed and constructed in accordance with 40 Code of Federal Regulations (CFR) Part 258, Solid Waste Disposal Facility Criteria under the Resource Conservation and Recovery Act, Subtitle D (USEPA, 1991), and DOH Hawai‘i Administrative Rules (HAR) Title 11, Subchapter 58 (DOH, 1994).

¹ <https://www.dsi-software.com/dumpstat.html>

Phase I groundwater monitoring wells MWI-1, MWI-2, and MWI-3 were decommissioned in May 2019. Replacement monitoring wells MWI-1A, MWI-2A, and MWI-3A were installed in May 2019. MWI-2A is near the southeast corner of the Phase I Area and close to the former location of MWI-3 (Figure 2).

1.4 Phase II Landfill

The KLF Phase II (Figure 2) is an active MSW-lined landfill that began accepting solid waste on 9 October 1993. The facility is owned and operated by the County. Groundwater monitoring is currently conducted quarterly in accordance with Geosyntec's GMP and Solid Waste Operating Permit Number LF-0042-16 (issued 13 September 2019) (Geosyntec, 2020).

Phase II monitoring wells MWII-4 and MWII-6 and Phase I groundwater monitoring wells MWI-1, MWI-2, and MWI-3 were decommissioned in May 2019. Monitoring wells MWII-2, MWII-5, MWII-7, and MWI-1A, MWI-2A, and MWI-3A now comprise the Phase II groundwater monitoring network (Figure 2).

Several statistically significant increases (SSIs) of monitored parameters, including ammonia as nitrogen (N), arsenic, calcium, potassium, and total organic carbon (TOC) have been identified in the KLF Phase II monitoring wells: MWII-2, MWII-5, and MWII-7. Alternative source demonstration (ASD) reports were prepared (Sanifill, 1998; WMH, 2006; WMH, 2007; WMH, 2008; GeoChem, 2012) that address possible sources of the SSIs other than the KLF. The ASD reports indicated that the exceedances were likely due to sources other than the Phase II landfill, including fertilizer application on agricultural land upgradient of the KLF, biodegradation of organic material placed as fill material prior to construction of Phase II, the unlined KLF Phase I site, and impacts from the adjacent aquaculture facility. Naturally occurring arsenic in the volcanic soils was also cited as a possible alternative source.

The DOH, Solid and Hazardous Waste Branch (SHWB), in a letter dated 22 May 2014, responded to the previously mentioned ASDs with the following acceptance of ASD findings:

- The ammonia as N SSIs are not related to Phase II landfill releases, but due to fertilizer compounds associated with upgradient agricultural activities and biodegradation of organic fill materials.
- The TOC SSIs are likely from the Phase I landfill. SHWB noted that the TOC was detected in the Phase I monitoring wells at significantly greater concentrations and earlier than the detection of TOC in well MWII-6.
- Based on the GeoChem 2012 ASD, SHWB agreed that the calcium and potassium SSIs observed at MWII-7 are not related to Phase II landfill releases but are associated with impacts from the adjacent aquaculture facility.

In a letter to the DOH dated 13 April 2023, the County indicated that an ASD for exceedance of background limits of site-specific indicator parameters ammonia as N, and TOC at MWI-1A and

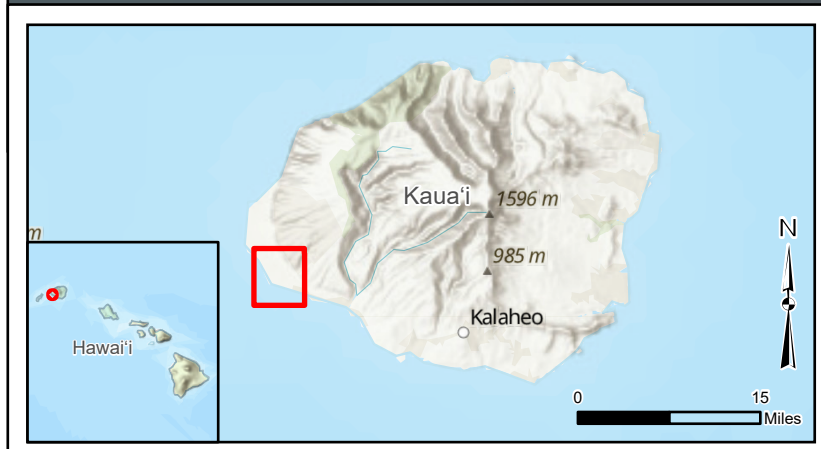
MWI-2A was not supported by available data or the prior assessment monitoring in the Phase I operating history. Therefore, the assessment monitoring is continuing at these monitoring wells.

1.5 Site Setting

The KLF is located near the southwest coast of the island of Kaua'i, approximately 1.5 miles northwest of Kekaha and approximately 2,000 ft from the Pacific Ocean shoreline (Figure 1). The Phase I Landfill covers approximately 33 acres and has an elevation between approximately 10 to 40 ft above msl. The unlined Phase I landfill opened in 1953 and accepted MSW until the 1993 closure.

The Phase II Landfill is lined and hydraulically upgradient of the closed and unlined Phase I Landfill. The Phase II property covers approximately 63 acres, with the permitted waste footprint consisting of the original Phase II (32.1 acres), the Cell 1 lateral expansion (6.4 acres), and the Cell 2 lateral expansion (5.9 acres). The base elevation of the KLF Phase II varies from approximately 7 ft above msl to 12 ft above msl.

No natural streams or lakes exist within or near the facility. The site location is shown in Figure 1, and the site layout is shown in Figure 2.





Legend

- | | | |
|--|----------------------------------|-------------------|
| Wet Well (Leachate Sump) | Approximate Active Landfill Area | Roads |
| Groundwater Monitoring Well | Sump Location | Property Boundary |
| Decommissioned Groundwater Monitoring Well | Phase Boundary | |
| | Cell Boundary | |

Site Layout

Kekaha Municipal Solid Waste Landfill
Kaua'i, Hawai'i

Geosyntec
consultants

Figure

2

WG3074

September 2025

2. LANDFILL QUARTERLY GROUNDWATER MONITORING

Previous monitoring reports have presented the Phase I and Phase II monitoring results separately. Monitoring wells MWI-1A, MWI-2A, and MWI-3A now serve a dual purpose as downgradient point of compliance monitoring locations for the Phase II Landfill and the Phase I Landfill; therefore, the DOH and the County agreed that beginning in 2023, the monitoring reports would address the Phase I and II Landfills together rather than discussing the results in separate sections in the report.²

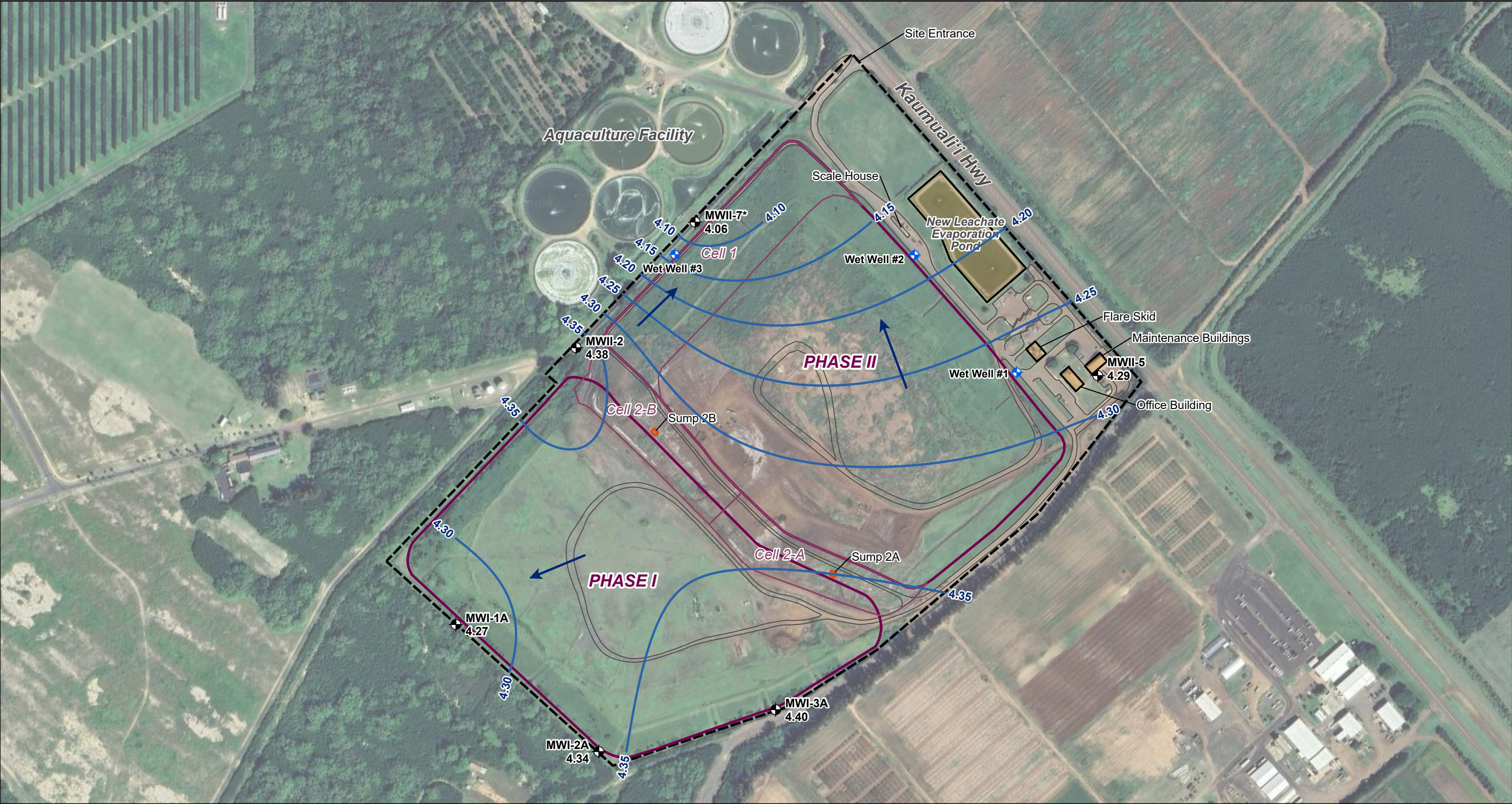
2.1 Field Monitoring Activities

On 17 August 2025, Geosyntec personnel measured water levels at the monitoring wells prior to purging and sample collection. During the monitoring event, the conditions for each of the six monitoring wells were inspected. No issues with the well conditions were identified.

The groundwater elevations, estimated contours, and inferred groundwater flow directions for the Third Quarter 2025 monitoring event are presented below in Figure 3. The Third Quarter 2025 depth-to-groundwater measurements and the calculated water table elevations for the monitoring wells are presented in Table 1, which follows Figure 3.

Groundwater samples were collected from three monitoring wells (MWII-2, MWII-5, and MWII-7) by Geosyntec on 18 August 2025 and from the remaining monitoring wells (MWI-1A, MWI-2A, and MWI-3A) by Geosyntec on 19 August 2025 for the Third Quarter 2025 monitoring event. One cooler containing volatile organic compound (VOC) samples was received out of temperature by the laboratory, so all six wells were resampled for VOCs on 1 September 2025. A duplicate (DUP) sample was also collected from monitoring well MWII-5 on 18 August 2025. Additionally, field blank (FB) and trip blank (TB) samples were collected by Geosyntec personnel during both sampling periods. All samples were preserved and transported with the appropriate chain-of-custody documentation to Eurofins Test America-Denver (TA) for analyses and were received by TA on 22 August 2025 and 4 September 2025. The field information forms are contained in Appendix A.

² These changes are discussed in greater detail in a letter from the County to DOH dated 31 January 2023 discussing a status update and response to additional DOH comments on the GMP.



Legend

MWI-1A
4.27

Groundwater Monitoring Well

4.20

Groundwater Elevation Contour (ft msl)

Inferred Groundwater Flow Direction

Wet Well (Leachate Sump)

Sump Location

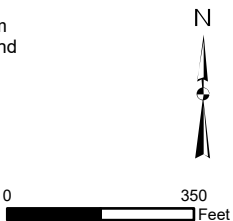
Phase Boundary

Cell Boundary

Property Boundary

Roads

Notes:
ft msl = feet above mean sea level
- Monitoring wells were gauged on August 17, 2025.
- TOC elevation data provided by Waste Management from May 11, 2018 and July 29, 2019 well survey elevations and use the USGS brass monument G1000 plus 1.21 feet.
- Aerial imagery source: Google Earth, February 2024.



**Groundwater Contour Map
August 2025**

Kekaha Municipal Solid Waste Landfill
Kaua'i, Hawai'i

Geosyntec
consultants

WG3074

October 2025

Figure

3

Table 1: Groundwater Level Data (17 August 2025)

Monitoring Well ID	Top of Casing Elevation (ft-msl)	Screened Interval (ft-below top of casing)	Depth to Water (ft)	Groundwater Elevation (ft-msl)
MWI-1A	14.53	4.5-19.5	10.26	4.27
MWI-2A	13.33	4.5-19.5	8.99	4.34
MWI-3A	14.03	4.5-19.5	9.63	4.40
MWII-2	15.83	4.0-14.0	11.45	4.38
MWII-5	13.7	3.0-13.0	9.41	4.29
MWII-7	15.8	3.5-23.5	11.73	4.06

Notes:

All wells are 2-inch diameter polyvinylchloride (PVC)

ft msl = feet mean sea level

Top of casing elevation data provided by Waste Management from 11 May 2018 and 29 July 2019 well survey elevations.

2.2 Laboratory Analyses of Monitoring Well Groundwater Samples

TA analyzed the groundwater samples for the following parameters:

- Appendix I of 40 CFR 258 parameters - VOCs;
- Appendix I 40 CFR 258 total and dissolved metals - antimony, arsenic, barium, beryllium, cadmium, calcium, chromium, cobalt, copper, iron, lead, magnesium, manganese, mercury, nickel, potassium, selenium, silver, sodium, thallium, tin, vanadium, and zinc;
- Supplemental parameters - total alkalinity, bicarbonate alkalinity, carbonate alkalinity, bromide, chloride, and sulfate; and
- Additional indicator parameters - ammonia as N, nitrate-nitrite as N, total dissolved solids (TDS), TOC, and chemical oxygen demand (COD).

The groundwater chemistry results for the monitoring wells are summarized below in Table 2. Historical data and time-series graphs for analytes detected in the Phase 1 Landfill monitoring wells are provided in Appendix B³, and the laboratory reports are contained in Appendix C. The laboratory reports in Appendix C include additional results that are not included in Table 2 because they either do not pertain to the scope of work for groundwater monitoring or had a non-detection result. The facility is currently in assessment monitoring for total and dissolved arsenic, so an *annual analysis* of parameters included in Appendix II 40 CFR 258 (Subtitle D) was conducted as part of the First Quarter 2025 monitoring event to comply with Hawaii HAR 11-58.1-16(e).

³ Time series graphs for Phase I wells compare current groundwater monitoring well analytical results to historical groundwater monitoring wells that have been replaced.

2.3 Groundwater Monitoring Results

2.3.1 Groundwater Flow Direction

As shown in Table 1 and Figure 3, groundwater elevations during the Third Quarter 2025 monitoring event ranged from 4.06 ft above msl in MWII-7 to 4.40 ft above msl in MWI-3A. The groundwater gradient and inferred flow direction based on the groundwater elevations is typically southwest towards the Pacific Ocean.

During this event, relatively high groundwater elevations at MWII-2, MWII-5, and MWII-7 indicate a generally northward groundwater gradient and inferred groundwater flow direction away from the Pacific Ocean beneath the north portion of the Phase II Landfill. Similar patterns have been observed historically (2012, 2013, 2023). As discussed in those previous reports, the anomalous flow direction may be influenced by groundwater pumping at the nearby aquiculture facility. Groundwater elevations in MWI-1A, MWI-2A, and MWI-3A indicate a generally southwest flow direction towards the Pacific Ocean beneath the Phase I Landfill. These flow patterns are consistent with historical trends observed during prior monitoring events.

2.3.2 Groundwater Sample Analyses

Results of analyses of Third Quarter 2025 groundwater samples for VOCs, dioxins, total/dissolved metals, major chemical parameters, and site-specific indicator parameters are provided in Table 2 and are summarized below. Analytical lab reports are provided in Appendix C.

Volatile Organic Compounds – No VOCs were detected at any monitoring wells above the reporting limits (RLs); however, 1,4-dichlorobenzene was detected above the method detection limit (MDL) in MWI-1A and MWI-2A with estimated concentrations of 0.37 microgram per liter (µg/l) and 0.26 µg/l, respectively.

Dissolved Metals – The dissolved metals results for are provided in Table 2. Dissolved metals results that were non-detect are not listed. The results for all other dissolved metals are summarized below.

- Arsenic, calcium, magnesium, potassium, silicon, and sodium were detected at concentrations greater than the RLs in all monitoring wells.
- Barium was detected at estimated concentrations greater than the MDLs in MWI-1A, MWI-2A, MWII-2, MWII-5, and the DUP sample. Barium was detected at concentrations greater than the RLs in MWI-3A and MWII-7.
- Iron was detected at concentrations greater than the RLs in MWI-1A, MWI-2A, and MWII-7.
- Manganese was detected at estimated concentrations greater than the MDLs in MWI-1A, MWI-2A, MWI-3A, MWII-2, MWII-5, and the DUP sample. Manganese was detected at concentrations greater than the RL in MWII-7.

- Nickel was detected at estimated concentrations greater than the MDLs in MWI-2A, MWI-3A, and MWII-7.
- Selenium was detected at an estimated concentration greater than the MDLs in MWII-5.
- Silver was detected at an estimated concentration greater than the MDLs in MWII-7.
- Vanadium was detected at estimated concentrations greater than the MDLs in MWI-3A, MWII-2, and MWII-7. Vanadium was detected at concentrations greater than the RLs MWII-5, and the DUP sample.

Total Recoverable Metals – The total recoverable metals results, which include metals associated with suspended particles, for the monitoring wells are provided in Table 2. Total metals that were non-detect in all groundwater wells are not listed. The results for all other total metals are summarized below.

- Arsenic, calcium, magnesium, potassium, silicon, and sodium were detected at concentrations greater than the RLs in all monitoring wells.
- Barium was detected at estimated concentrations greater than the MDLs MWI-1A, MWI-2A, MWII-2, MWII-5, and the DUP sample. Barium was detected at concentrations greater than the RLs in MWI-3A and MWII-7.
- Iron was detected at concentrations greater than the RLs in MWI-1A, MWI-2A, and MWII-7.
- Manganese was detected at concentrations greater than the RLs in MWI-1A, MWI-2A, MWI-3A, MWII-2, MWII-5, and the DUP sample. Manganese was detected at estimated concentrations greater than the MDLs in MWII-7.
- Nickel was detected at estimated concentrations greater than the MDLs in MWI-2A and MWI-3A.
- Selenium was detected at estimated concentrations greater than the MDLs in MWII-5 and the DUP sample.
- Vanadium was detected at estimated concentrations greater than the MDL in MWI-3A, MWII-2, and MWII-7. Vanadium was detected at concentrations greater than the RLs in MWII-5 and the DUP sample.

Major Chemical Parameters - The groundwater samples were analyzed for ammonia as N, nitrate/nitrate as N, bromide, chloride, sulfate, total alkalinity, bicarbonate alkalinity, TDS, and TOC to provide data for geochemical evaluation. Chloride, sulfate, bromide, bicarbonate alkalinity, total alkalinity, TDS, and TOC were detected in samples from all monitoring wells at concentrations greater than the RLs. Bicarbonate alkalinity, total alkalinity, and TOC were detected at a concentration exceeding the background limit in MWI-1A and MWI-2A.

Ammonia as N was detected in samples from MWI-1A, MWI-2A, MWI-3A, MWII-2, and MWII-7 at concentrations greater than the RLs and was above the background limits in MWI-1A and MWI-2A. Nitrate/nitrite as N was detected at estimated concentrations above the MDL in MWII-3A and at concentrations greater than the RLs in MWII-5, and the DUP sample.

Site-Specific Indicator Parameters – The groundwater samples were analyzed for the following site-specific indicator parameters: ammonia as N, TOC, total and dissolved metals (arsenic, iron, and manganese); and COD. In addition to the results described above, COD was detected at concentrations above the RLs for MWI-1A, MWI-2A, and MWI-3A. The results of these analyses were evaluated for evidence of potential landfill impacts to groundwater using the statistical methods described below.

2.3.3 Phase I Landfill Monitoring Wells

The data were evaluated following the same criteria used for the preparation of the First Quarter 2018 Phase I Report (AECOM, 2018) and subsequent monitoring reports. As previously presented by AECOM, nonparametric prediction limits were determined using statistical analysis of the groundwater monitoring data. An analytical data set based on the Phase II monitoring wells was used to determine the Phase I background prediction limits that included data from March 1996 to January 2014 from monitoring wells MWII-2, MWII-4, MWII-5, MWII-6, and MWII-7. Wells MWII-4 and MWII-6 were decommissioned in May 2019. Monitoring wells MWI-1A, MWI-2A, and MWI-3A now have the minimum requisite eight samples required to conduct intra-well statistical analysis. However, the DOH indicated that the use of intra-well statistical analysis for these monitoring wells may not be appropriate because current conditions do not appear to reflect unimpacted background groundwater conditions based on historical groundwater analytical data collected from both the former downgradient monitoring wells (MWI-1, MWI-2, and MWI-3) and the current Phase I monitoring wells. Therefore, the inter-well statistical method is still used for the Phase I monitoring wells.

The current background limits for the Phase I monitoring wells are based on the composite data from the Phase II monitoring wells because Phase II is upgradient of Phase I. These background prediction limits⁴ are shown in Table 2. Some chemical constituents were detected in these Phase I monitoring wells above the background limits.

As mentioned above, Geosyntec submitted a memorandum to the DOH on 21 July 2022 with recommendations for updating the Phase I background limits for MWI-1A, MWI-2A, and MWI-3A. The DOH responded to the proposed background limits in a letter dated 3 October 2022, requesting that additional data be included to estimate background limits.

The County and Geosyntec met with the DOH on 31 August 2022 and discussed potential locations and plans to install the proposed monitoring well, MWII-6A, as well as two additional monitoring

⁴ Note that not all analytes that appear in Table 2 have established background limits because there are not enough historical detection data to establish these levels.

wells on the northeast side of the Kaumuali'i Highway to obtain background data. The DOH concurred with the proposed location of the proposed new monitoring wells, which are shown on Figure 2. MWII-6A will be installed at the same time as the two additional monitoring wells. A right of Entry agreement for the two wells has been obtained and the County is scheduling installation with the drilling subcontractor. MWII-6A will provide cross-gradient groundwater data, and the two wells mauka of the landfill will provide upgradient groundwater data. The purpose of installing the two new monitoring wells is to establish background limits for the detection monitoring network.

2.3.4 Phase II Landfill Monitoring Wells

The analytical results for groundwater samples collected from monitoring wells around the Phase II Landfill footprint were evaluated for evidence of potential landfill impacts to groundwater using the intra-well statistical methods described in the KLF Phase II GMP. Appendix D presents the Shewhart-Cumulative Sum (CUSUM) control charts for the Third Quarter 2025 sampling event. At least eight historical independent samples are required to reliably calculate parameters (e.g., mean, standard deviation) used to determine a background control limit. These samples are referred to as the background dataset for a given well. Additionally, for constituents that are detected in less than 25% of samples, variance is not adequately defined and a CUSUM value cannot be calculated (Gibbons, 1994). Analytes for which these values could not be calculated due to limited historical information or low detection rates are noted below.

The detected concentrations and CUSUM values were generally below the statistical background control limits, except as noted below:

MWII-2:

- Due to low detection rates, a CUSUM value was not computed for COD, dissolved iron, dissolved manganese, or total manganese.
- Due to the limited background dataset, a background control limit was not computed for COD or total manganese.
- Exceedances:
 - The ammonia detected concentration of 0.73 milligrams per liter (mg/L) and CUSUM value of 1.26 mg/L exceeded the statistical background control limit.

MWII-5:

- Due to low detection rates, a CUSUM value was not computed for COD, dissolved manganese, or total manganese.
- Due to the limited background dataset, a background control limit was not computed for COD or total manganese.

MWII-7:

- Due to low detection rates, a CUSUM value was not computed for dissolved iron or total iron.
- Due to the limited background dataset, a background control limit was not computed for dissolved iron or total iron.
- Exceedances:
 - The ammonia detected concentration of 0.31 mg/L and CUSUM value of 0.31 mg/L exceeded the statistical background control limit.
 - Neither a background control limit nor a CUSUM value were computed for dissolved iron. However, the detection of dissolved iron at a concentration of 0.82 mg/L appears inconsistent with available background data, which is non-detect.
 - Neither a background control limit nor a CUSUM value were computed for total iron because background data were primarily non-detect, but the detection of total iron at a concentration of 0.94 mg/L appears inconsistent with available background data, which is mostly non-detect.
 - The dissolved manganese detected concentration and CUSUM value exceeded statistical background control limit.
 - The total manganese detected concentration and CUSUM value exceeded the statistical background control limit.

The exceedances at MWII-7 are attributed to continued sporadic impact on groundwater quality resulting from infiltration of brackish, nutrient-laden water with high biological oxygen demand and likely reducing conditions from the aquaculture facility operations located northwest (and sporadically hydraulically upgradient) of the landfill, not a release from the Phase II Landfill.

2.3.5 Evaluation of Groundwater Data Quality

Field Blank and Trip Blanks – Total and dissolved calcium and ammonia were detected in the FB sample collected on 18 August at estimated concentrations greater than the MDLs, but less than the RLs. No analytes were detected in the FB sample collected on 1 September. No analytes were detected in the trip blank from 1 September at concentrations greater than the MDL. Qualifiers were added to the associated analytical sample results where appropriate.

Method Blanks – The MB is a sample of “clean” water that is placed in the sample container at the laboratory. Detections in the MB can indicate that the “clean” water used for the blank contains chemicals above the MDL. This can also be due to cross-contamination, such as from volatilized chemicals entering the sample or from chemical residuals present on equipment in the laboratory.

Method blanks were processed for samples collected in both August and September. No analytes were detected in either method blank.

MWII-5 Duplicate Data – A sample set specific-field duplicate was analyzed for VOCs, total/dissolved metals, major chemical parameters, and site-specific indicator parameters using sample MWII-5. The acceptance criteria for relative percent difference (RPD < 30%) was met for the field duplicate pair in all but two analytes (total and dissolved selenium).

Other Notable Data Quality Results

Method 8260D - Volatile Organic Compounds by GC/MS

One of the three containers for DUP MWII-5 (280-212823-3) was received broken. There was sufficient sample volume in the other containers to complete analysis.

The continuing calibration verification (CCV) associated with batch 280-712479 recovered outside acceptance criteria, low biased, for 2-Hexanone. A reporting limit (RL) standard was analyzed, and the target analytes are detected. The LCS and LCSD recovered within control limits for these analytes. TRIP BLANK (280-212823-1), MWII-5 (280-212823-2), DUP MWII-5 (280-212823-3), MWI-1A (280-212823-4), MWI-2A (280-212823-5), MWI-3A (280-212823-6), MWII-2 (280-212823-7), MWII-7 (280-212823-8), FIELD BLANK (280-212823-9) and (CCV 280-712479/2).

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 280-712479. The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch. TRIP BLANK (280-212823-1), MWII-5 (280-212823-2), DUP MWII-5 (280-212823-3), MWI-1A (280-212823-4), MWI-2A (280-212823-5), MWI-3A (280-212823-6), MWII-2 (280-212823-7), MWII-7 (280-212823-8) and FIELD BLANK (280-212823-9).

Method 6010D - Metals (ICP)

Sample MWII-7 (280-212413-4)[5x] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

The following sample was diluted to bring the concentration of target analytes within the calibration range: MWII-7 (280-212413-4). Elevated reporting limits (RLs) are provided.

Method 6010D - Metals (ICP) - Dissolved

Sample MWII-7 (280-212413-4)[5x] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

The following sample was diluted to bring the concentration of target analytes within the calibration range: MWII-7 (280-212413-4). Elevated reporting limits (RLs) are provided.

Method 300.0A - Anions, Ion Chromatography

Samples MWII-2 (280-212413-3)[5x], MWII-7 (280-212413-4)[50x], MWI-1A (280-212413-6)[5x], MWI-2A (280-212413-7)[5x] and MWI-3A (280-212413-8)[5x] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Method 350.1 – Nitrogen, Ammonia

Samples MWI-1A (280-212413-6)[10x], MWI-2A (280-212413-7)[10x] and MWI-3A (280-212413-8)[2x] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

The matrix spike and matrix spike duplicate (MS/MSD) recoveries for analytical batch 280-710876 were outside control limits for one or more analytes. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 353.2 – Nitrogen, Nitrate-Nitrite

Samples MWII-5 (280-212413-1)[50x] and MWII-5 DUP (280-212413-2)[50x] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

The matrix spike duplicate (MSD) recoveries for analytical batch 280-711066 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method SM 2540C - Solids, Total Dissolved (TDS)

The following samples were received with over half of the 7-day holding time expired for 2540C TDS. The samples were collected on 8/18/25 and received on Friday, 8/22/25. Holding time expired on 8/25/25. As such, the laboratory had insufficient time remaining to perform the analysis within holding time: MWII-5 (280-212413-1), MWII-5 DUP (280-212413-2), MWII-2 (280-212413-3), MWII-7 (280-212413-4) and Field Blank (280-212413-5).

Table 2: Summary of Groundwater Analytical Results (18 and 19 August and 1 September 2025)

Analyte	Unit	MWI-1A	MWI-2A	MWI-3A	MWII-2	MWII-5	MWII-5 (DUP)	MWII-7	Background ³	HAR MCLs ⁵	HI EALs ⁶
Volatile Organic Compounds (VOCs)											
1,4-Dichlorobenzene	µg/L	0.37 J	0.26 J	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	-	75	9.4
All VOCs analyzed	µg/L	ND	ND	ND	ND	ND	ND	ND	-	-	-
Metals											
Arsenic (dissolved)	µg/L	8.3	130	15	6.1	13	13	6.4	130	10	36
Arsenic (total)	µg/L	8.6 B	130	15	5.6	13	13	5.7	-	-	-
Barium (dissolved)	µg/L	3 J	4 J	26	4.8 J	4.4 J	4.7 J	31	18	2000	220
Barium (total)	µg/L	2.7 J	3.7 J	25	4.5 J	4.1 J	4.4 J	31	-	-	-
Calcium (dissolved)	µg/L	33,000	32,000	44,000	48,000	48,000	47,000	120,000	500,000	-	-
Calcium (total)	µg/L	32,000	32,000	43,000	49,000	47,000	48,000	130,000	-	-	-
Iron (dissolved)	µg/L	250	510	< 40.0	< 40.0	< 40.0	< 40.0	820	950	-	-
Iron (total)	µg/L	330	570	< 40.0	< 40.0	< 40.0	< 40.0	940	-	-	-
Magnesium (dissolved)	µg/L	110,000	120,000	110,000	82,000	99,000	100,000	220,000	870,000	-	-
Magnesium (total)	µg/L	110,000	120,000	110,000	84,000	100,000	100,000	220,000	-	-	-
Manganese (dissolved)	µg/L	2.9 J	5.9 J	5.5 J	3.8 J	4.5 J	4.8 J	330	-	-	-
Manganese (total)	µg/L	2.9 J	5.7 J	5.6 J	3.9 J	5.8 J	5.8 J	330	-	-	-
Nickel (dissolved)	µg/L	< 5.0	11 J	7.5 J	< 5.0	< 5.0	< 5.0	5 J	40	-	5
Nickel (total)	µg/L	< 5.0	12 J	7.8 J	< 5.0	< 5.0	< 5.0	< 5.0	-	-	-
Potassium (dissolved)	µg/L	48,000	85,000	52,000	20,000	9,600	9,700	54,000	220,000	-	-
Potassium (total)	µg/L	48,000	84,000	51,000	21,000	9,700	9,800	55,000	-	-	-
Selenium (dissolved)	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	8.3 J	< 5.0	< 5.0	15	50	5
Selenium (total)	µg/L	< 5.0	< 5.0	< 5.0	< 5.0	6.1 J	10 J	< 5.0	-	-	-
Silicon (dissolved)	µg/L	11,000	11,000	9,000	9,200	13,000	13,000	9,800	15,000	-	-
Silicon (total)	µg/L	11,000	11,000	8,900	9,600	13,000	13,000	10,000	-	-	-
Silver (dissolved)	µg/L	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	2.5 J	10	-	0.1
Sodium (dissolved)	µg/L	450,000	300,000	230,000	220,000	100,000	100,000	1,400,000	7,700,000	-	-
Sodium (total)	µg/L	430,000	290,000	220,000	230,000	99,000	100,000	1,500,000	-	-	-
Vanadium (dissolved)	µg/L	< 1.5	< 1.5	3.4 J	4.8 J	6.4	6.4	2.8 J	10	-	27
Vanadium (total)	µg/L	< 1.5	< 1.5	3.3 J	4.8 J	6.4	6.3	3 J	-	-	-
All other metals analyzed	µg/L	ND	ND	ND	ND	ND	ND	ND	-	-	-

Analyte	Unit	MWI-1A	MWI-2A	MWI-3A	MWII-2	MWII-5	MWII-5 (DUP)	MWII-7	Background ³	HAR MCLs ⁵	HI EALs ⁶
Major Chemical Parameters											
Ammonia as Nitrogen (N)	mg/L	21	19	3.9 F1	0.73	< 0.04	< 0.04	0.31	7.7	-	-
Nitrate Nitrite as N	mg/L	< 0.06	< 0.06	0.074 J	< 0.06	25 F1	37	< 0.06	-	10	-
Bicarbonate Alkalinity	mg/L	570	780	490	430	390	390	330	553	-	-
Total Alkalinity	mg/L	570	780	490	430	390	390	330	549	-	-
Bromide	mg/L	2.8	3	1.6	1.4	1.4	1.4	8.8	-	-	-
Chloride	mg/L	670	380	380	370	140	140	2,800	14,000	-	-
Sulfate	mg/L	140	120	150	89	60	60	360	1,800	-	-
Total Dissolved Solids	mg/L	1,700	1,500	1,200	1,100 H	890 H	910 H	5,400 H	23,000	-	-
Total Organic Carbon (average)	mg/L	6.6	13	4.7	1.3	1.7	2.1	2.5	6	-	-
Chemical Oxygen Demand (COD)	mg/L	28	30	30	< 10.0	< 10.0	< 10.0	< 10.0	280	-	-
Field Parameters (August 18 and 19)											
Electrical Conductivity	µS/cm	3.27	2.7	2.25	2.01	1.51	1.51	8.44	-	-	-
Dissolved Oxygen	mg/L	0.74	1.58	0.59	1.08	1.09	1.09	1.15	-	-	-
eH/ORP	mV	-124	-88	48	50	131	131	-65	-	-	-
pH	SU	7.95	7.76	7.88	7.91	7.81	7.81	8.06	-	-	-
Temperature	°C	31.98	30.59	29.54	29.52	29.2	29.2	28.65	-	-	-
Temperature	°F	89.56	87.06	85.17	85.14	84.56	84.56	83.57	-	-	-
Turbidity	NTU	0.3	0.5	0.1	0.1	0.1	0.1	0.38	-	-	-
Field Parameters (September 1)											
Electrical Conductivity	µS/cm	3.27	2.77	2.13	2	1.5	1.5	8.38	-	-	-
Dissolved Oxygen	mg/L	0.58	1.94	67	0.94	1.37	1.37	0.83	-	-	-
eH/ORP	mV	-135	0.97	61	49	136	136	-108	-	-	-
pH	SU	7.95	7.57	7.7	7.67	7.63	7.63	7.96	-	-	-
Temperature	°C	32.18	30.7	29.51	29.98	29.35	29.35	28.81	-	-	-
Temperature	°F	89.92	87.26	85.12	85.96	84.83	84.83	83.86	-	-	-
Turbidity	NTU	0.31	0.14	0.1	0.22	0.28	0.28	0.4	-	-	-

Notes:

1. "MWI-X" represents groundwater monitoring well
2. Wells MWI-1, MWI-2, and MWI-3 were decommissioned and replaced with MWI-1A, MWI-2A, and MWI-3A in May 2019
3. Background limits from AECOM.

4. HAR Chapter 11-20 maximum contaminant levels (MCLs) established for drinking water. In absence of state MCLs, the National Primary Drinking Water Regulations is used instead.
5. Hawai'i Environmental Action Levels (EALs) obtained from Table B (2024).
6. **Bold** text indicates the detected concentration exceeds the statistically established laboratory reporting limit (RL).
7. Blue highlighted cells indicate that the value has exceeded background limits (only applies to MWI-1A, MWI-2A, and MWI-3A).
8. **Red** text indicates an exceedance of either the MCLs or EALs.

Abbreviations:

B = compound was found in the blank and corresponding sample
H = Sample analysis was completed outside of prescribed hold times
mV = millivolts
^+ = Continuing Calibration Verification (CCV) is outside acceptance limits, high biased
^2 = Calibration blank is outside acceptance limits
°C = degrees Celsius
°F = degrees Fahrenheit
µg/L = micrograms per liter
µS/cm = microSiemens per centimeter
EAL = Environmental Action Level
eH/ORP = redox potential/oxidation reduction potential
F1 = MS and/or MSD recovery exceeds control limits
J = Result is less than the reporting limit (RL), but greater than or equal to the method detection limit (MDL), and the concentration is an approximate value
MCL = Maximum Contaminant Level
mg/L = milligrams per liter
N/A = Not Applicable
ND = not detected above the method detection limit
NTU = nephelometric turbidity unit
SU = standard unit

2.4 Monitoring Results Summary and Conclusions

Findings and conclusions from the groundwater monitoring are summarized below:

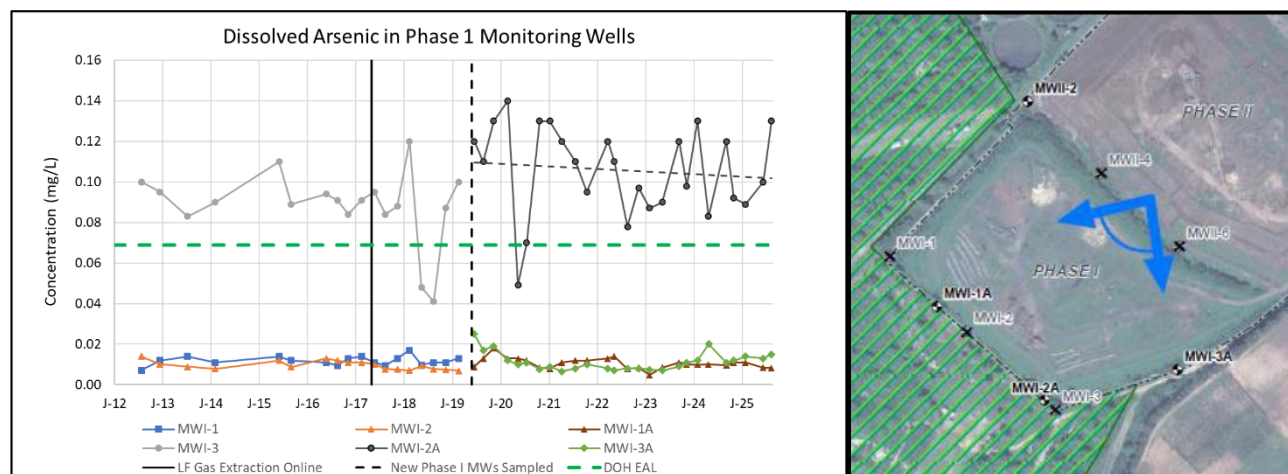
- No VOCs were detected at concentrations greater than their respective RLs.
- Ammonia as N, TOC, bicarbonate alkalinity, and total alkalinity exceeded the respective background limits in monitoring wells MWI-1A and MWI-2A.
- Barium exceeded the background limit in MWI-3A.
- The analytical data were screened against Hawai'i state maximum contaminant levels (MCLs) for drinking water and environmental action levels (EALs) for groundwater.
 - Dissolved arsenic exceeded the MCL in MWI-2A, MWI-3A, MWII-5, and the DUP sample. Dissolved nickel exceeded the EAL in MWI-2A and MWI-3A. Dissolved selenium exceeded the EAL in MWII-5. Dissolved silver exceeded the EAL in MWII-7. Nitrate as N exceeded the MCL in the primary and DUP samples from MWII-5.
 - Total and dissolved iron at MWII-7 is inconsistent with background data. As presented in the GeoChem ASD (Geochem 2012), iron SSIs at MWII-7 are attributed to impacts from the adjacent aquaculture facility, not the Phase Landfill.
 - Total and dissolved manganese exceeded statistical background limits at MWII-7.
 - Ammonia as N exceeded statistical background limits at MWII-2 and MWII-7.

These findings are consistent with results from previous monitoring events.

Elevated concentrations of arsenic in groundwater at the KLF have been previously addressed in the WMH 2007 ASD report, the most recent GMP (Geosyntec, 2020), and multiple meetings with the DOH. The 2007 ASD indicated that elevated arsenic in monitoring well MWII-6 and in other monitoring wells is likely due to naturally occurring arsenic in the aquifer matrix, not a release from the landfill. A subsequent ASD (WMH, 2009) documented the presence of arsenic in soil near the landfill and showed that concentrations detected in groundwater are consistent with partitioning of arsenic between soil and groundwater. Elevated background concentrations of arsenic in soil and groundwater near the KLF are likely associated with naturally occurring arsenic in volcanic soils, as well as arsenic-based herbicides and pesticides used at sugarcane plantations, as has been documented for many locations in Hawai'i, including the vicinity of Kekaha on Kaua'i (DOH, 2011; Geosyntec, 2020). The elevated concentration of arsenic in MWII-5, which is at the eastern (upgradient) corner of the KLF property adjacent to Phase II Landfill supports that the landfill is not the source of the arsenic detections.

In addition, as has been discussed with and submitted to the DOH (e.g., WMH, 2018), oxygen-depleted reducing conditions associated with the presence of the KLF and generation of methane likely increases the solubility of arsenic in groundwater beneath the landfill. As a consequence of

landfill gas extraction, which began at the Phase I landfill in 2017, conditions are expected to become less reducing with time beneath the Phase I Landfill, and solubility of arsenic in groundwater beneath the landfill may gradually decrease. Although this is expected to be a slow process that would likely take many years, a decreasing trend of arsenic concentrations in MWI-2A the last few years is encouraging and indicates that the landfill gas extraction system may be helping to reduce solubility of arsenic in groundwater (see graph and map inserted below).



Graph of Concentrations of Dissolved Arsenic in Groundwater Samples for Phase I Monitoring Wells and Aerial Photo Showing Locations of the MWs

As illustrated above, monitoring well MWI-2A is near the southeast corner of the Phase I Area, close to former monitoring well MWI-3 (Figure 2). Concentrations of arsenic at MWI-2A are similar to historical values of arsenic detected at MWI-3, and the data show a decreasing trend as noted by the dashed line in the graph above showing an overall decrease in arsenic levels from January 2019 to January 2025. This location is downgradient of the previously decommissioned MWII-6, and the elevated concentration of arsenic is likely a result of natural occurring minerals containing arsenic in the soil and/or residual agricultural chemicals in the soil and not a release from the landfill (DOH, 2011; Geosyntec, 2020). However, the physical presence of the landfill and the generation of methane gas result in reducing geochemical conditions (low oxygen) within the landfill and in groundwater beneath the landfill, which increases the solubility of metals, including arsenic.

The landfill gas extraction system that began operating in May 2017 is removing methane, which should also help to limit the reducing conditions within and beneath the landfill. This may lessen the solubility of metals in groundwater beneath the landfill and result in lower concentrations of metals with time. Elevated concentrations of metals in groundwater are likely limited to the vicinity of the landfill where reducing conditions exist, and lower concentrations of metals are expected in groundwater away from the landfill where conditions are more aerobic. Changes in the redox conditions and the associated solubility of metals are likely to take several years (e.g.,

Abiriga et al., 2021). More time and monitoring are needed before definitive trends can be determined. Time series plots for dissolved arsenic, calcium, iron, magnesium, potassium, and sodium in the Phase I wells were prepared and are included in Appendix B.

Two new monitoring wells will be installed mauka of the highway that should provide background data further upgradient of the KLF. In addition to the mauka wells, the County will collect groundwater samples from a transect makai (on the ocean side) of the Phase I Landfill to investigate the extent of elevated arsenic downgradient of the landfill. Access agreements for well installation are currently being evaluated for these downgradient wells. Additionally, installation of these wells will be determined following sample analysis from the upgradient wells once they are installed and sample.

The Sanifill 1998 ASD report, which was approved by the DOH, concluded that TOC and ammonia in groundwater may be attributable to the biodegradation of large quantities of organic matter (e.g., sugarcane vegetation) placed as fill material near and upgradient of monitoring well MWII-6 at a depth of at least 14 ft below ground surface. The ASD also indicated that the application of fertilizers and pesticides at nearby agricultural areas may have contributed to elevated TOC and ammonia concentrations in groundwater. Impacts to groundwater of organic matter from the adjacent upgradient aquaculture facility likely contributes to elevated concentrations of TOC and ammonia in downgradient monitoring wells MWI-1A and MWI-2A.

Additionally, the elevated concentrations of ammonia as N, bicarbonate alkalinity, total alkalinity, and TOC may partly be the result of decaying vegetation on the makai side of the Phase I Landfill (e.g., Sanifill, 1998). The organic detritus and roots that were in the area near decommissioned Phase I monitoring wells MWI-2 and MWI-3 may persist in the vicinity of these old monitoring wells and still may be influencing the water quality in the new monitoring wells that were installed in that same area (MWI-1A replaced MWI-2, and MWI-2A replaced MWI-3). New monitoring wells MWI-1A and MWI-2A have similar water quality of the original Phase I wells (MWI-2 and MWI-3). Replacement monitoring well MWI-3A was installed approximately 650 ft east of MWI-3 and is downgradient or cross-gradient from the Phase I Landfill and may be representative of upgradient groundwater with differences in geochemical characteristics from the other two Phase I monitoring wells.

Time-series plots for ammonia as N, sulfate, chloride, TOC, and TDS are included in Appendix B and illustrate concentrations trends in the Phase I monitoring wells. TOC was decreasing in all Phase I monitoring wells before stabilizing at approximately 9.5 mg/L in MWI-1, approximately 6 mg/L in MWI-2, and approximately 7 mg/L in MWI-3. Initially, after the new Phase I monitoring wells were installed, in MWI-1A and MWI-2A, TOC appeared to be increasing over time. Recently, TOC has been gradually stabilizing at 4 mg/L in MWI-1A, 8 mg/L in MWI-2A, and 6 mg/L in MWI-3A.

The time series plot for ammonia as N shows that concentrations were generally trending down prior to the installation of the new Phase I monitoring wells. In the new Phase I wells, ammonia as N has stabilized below 1 mg/L in MWI-3A since May 2020. In MWI-1A and MWI-2A, ammonia fluctuated in 2022 and 2023 before appearing to decrease over time in 2024.

In the third quarter 2023, a significant rise of chloride and sulfate, and a modest increase in TDS was observed in MWI-3A. Meanwhile, changes in chloride, sulfate, and TDS concentrations in MWI-1A and MWI-2A were limited relative to MWI-3A. It is unclear what may have influenced the dramatic increase in the concentrations of these compounds in MWI-3A, as field sampling and laboratory analysis procedures did not indicate any obvious explanation for the occurrence. It is possible that agricultural activity on the south adjoining property may have influenced the sample results in this monitoring well. It is also possible that the shift in groundwater flow direction observed during the third quarter 2023 may have introduced brackish water to these wells. The fourth quarter 2023 chloride and sulfate results in MWI-3A had decreased dramatically compared to the third quarter 2023 and represented a multi-year low; however, chloride, sulfate, and TDS concentrations in MWI-3A increased in the first quarter 2024 and have fluctuated around those concentrations since.

As is discussed elsewhere herein and in previous reports, the adjacent aquaculture facility is a likely source of ammonia, organic carbon, chloride, and other constituents associated with infiltration of nutrient-rich water with elevated salinity. The aquaculture facility likely also depletes oxygen in groundwater and thus contributes to reduced conditions. Elevated concentrations of ammonia have been detected historically at MWII-7 (Appendix D), which is adjacent to the aquaculture facility.

2.5 Phase I Quarterly Site Inspection

On 29 July 2025, the Third Quarter 2025 site inspection was conducted for the closed Phase I KLF by Geosyntec. The landfill cover was inspected for signs of erosion and for differential settlement or depressions. The storm water controls were inspected for any signs of failure or maintenance needs and for the proper drainage of all storm water. A summary of the site inspection follows:

- **Infiltration Ditch:** The infiltration ditch was in good condition with no apparent silt accumulation. There were no signs of obstructions, and the infiltration ditch appeared to be able to convey storm water.
- **Storm Water Drainpipe Inlets:** All drainage inlets were unobstructed, and silt socks around the inlets appeared to be intact.
- **Storm Water Drainpipe Outlets and Energy Dissipaters:** The pipe outlets and all energy dissipaters were in place and in good condition during the inspection.
- **Signs of Landfill Settlements, Depressions, etc.:** No visible signs of settlement or depressions were observed during the inspection.

- **Signs of Landfill Gas Migration (Dead or Brown Vegetation):** No visible signs of gas migration were observed during the inspection although most of the vegetation is brown because of naturally dry conditions.
- **Signs of Erosion or Instability (Deck and Side Slope):** No visible signs of erosion or instability were observed during the inspection.
- **Landfill Security Measures (Gates, Fencing, etc.):** Gates were in good working order.

3. LEACHATE MONITORING

No leachate samples were collected during the Third Quarter 2025 monitoring event. The Permit requires, at minimum, annual sampling of Wet Wells 1, 2, and 3 and leachate Sumps 2A and 2B. Samples were collected from Wet Wells 1, 2, and 3 and from leachate Sumps 2A and 2B during the First Quarter 2025 monitoring event.

4. REFERENCES

- 40 Code of Federal Regulations (CFR) 258. 2006. *Criteria for Municipal Solid Waste Landfills*.
- Abiriga, D, LS Vestgarden, H Klempe. 2021. Long-term redox conditions in a landfill-leachate-contaminated groundwater, *Science of the Total Environment*, vol 755, part 2, February 10, <https://www.sciencedirect.com/science/article/pii/S0048969720372569>
- AECOM Technical Services, Inc. (AECOM). 2017. *Groundwater and Leachate Monitoring Plan, Kekaha Sanitary Landfill Phase II*, Kekaha, Kaua‘i, Hawai‘i. October.
- . 2018. *Quarterly Post-Closure Report, Period January 2018 to March 2018, Kekaha Sanitary Landfill Phase I*, Kekaha, Kaua‘i, Hawai‘i. April.
- County of Kaua‘i (County). 2022. *Subject: Comments on Groundwater Monitoring Program, Solid Waste Management Permit LF-0042-16, Kekaha Sanitary Landfill*. August 12.
- . 2023. *Subject: Status Update and Response to Additional DOH Comments on the Groundwater Monitoring Program, Kekaha Sanitary Landfill*. February 6.
- Department of Health, State of Hawai‘i (DOH). 1994. *Hawai‘i Administrative Rules*, Title 11, Chapter 58.1, Subchapter 2, Subsection 16: Municipal Solid Waste Landfills – Ground-water Protection. January.
- . 2002. *State of Hawai‘i Landfill Groundwater Monitoring Guidance Document*. Ver. 1.8. Honolulu: Solid and Hazardous Waste Branch. September.
- . 2011, *Summary of Pesticide and Dioxin Contamination Associated with Former Sugarcane Operations, Hawaii Department of Health, Hazard Evaluation and Emergency Response Office*, prepared with assistance of Tetra Tech EM Ind., December 2011, <http://www.hawaiidoh.org/references/HDOH%202011d.pdf>
- . 2019. *Kekaha MSW Landfill Solid Waste Management Permit No. LF-0042-16*. Honolulu: Solid and Hazardous Waste Branch. September.
- . 2021. *Comments on Groundwater Monitoring Program - Solid Waste Management Permit LF-00420-16*. Honolulu: Solid and Hazardous Waste Branch. August 6.
- . 2022. *Subject: Kekaha Sanitary Landfill, 6900-D Kaumualii Highway, Kekaha, Hawaii. October*. October 3.
- GeoChem Applications (Geochem). 2012. *Kekaha Landfill Phase II – Alternative Source Demonstration for Statistical Exceedances*. July.
- Geosyntec. 2020. *Groundwater and Leachate Monitoring Plan, Kekaha Municipal Solid Waste Landfill, Kekaha, Kaua‘i, Hawai‘i*, prepared for the County of Kaua‘i, Department of Public Works. March 122.

- . 2022. *Summary of Background Reevaluation for Intra-Well Statistics, Kekaha Municipal Solid Waste Landfill*. July 21.
- Gibbons, Robert D. 1994. *Statistical Methods for Groundwater Monitoring*. John Wiley & Sons.
- HLA. 1994. *Closure/Post Closure Plan, Kekaha Sanitary Landfill, Phase I, Kekaha, Kaua‘i, Hawai‘i*.
- . 1996. *Postconstruction Report, Kekaha Sanitary Landfill, Phase I Closure, Kekaha, Kaua‘i, Hawai‘i*.
- Sanifill of Hawai‘i, Inc. 1998. *Kekaha Landfill, Phase II – Statistical Exceedance of Ammonia*. Alternative source evaluation letter report submitted to State of Hawai‘i, Department of Health. June.
- Waste Management of Hawai‘i, Inc. (WMH). 2006. *Alternative Source Demonstration for Statistically Significant Increase, Detection Monitoring, Kekaha Landfill Phase II, Kekaha, Kaua‘i, Hawai‘i*. July.
- . 2007. *Revised Alternative Source Demonstration for Statistically Significant Increase, Detection Monitoring, Kekaha Landfill Phase II, Kekaha, Kaua‘i, Hawai‘i*. April.
- . 2008. *Alternative Source Demonstration for Statistically Significant Increase of Total Organic Carbon, Kekaha Landfill Phase II, Kekaha, Kaua‘i, Hawai‘i*. April.
- . 2009. *Updated Alternative Source Demonstration, Soil Sampling Associated with Evaluating Occurrence of Arsenic in Subsurface Soils*, December.
- . 2018. *Status Update on Landfill Gas Extraction and Arsenic Levels in Groundwater and Proposed Revision to Groundwater Monitoring, Kekaha Municipal Solid Waste Sanitary Landfill, Kekaha, Kauai, Hawaii*, submitted to the DOH 26 November, 26 pp.

APPENDIX A

Field Information Forms

Groundwater Purging and Sampling Log

Project No: W63074 Task No: 01/1.3 Project Name: Kekaha Landfill Date: 8/19/25

Site Location: Kawai, HI Depth to Water (DTW)(ft): 10.26 Measurements Referenced to: TOC

Well ID: mw1-1A Total Well Depth (ft): — OVM (ppm) = —

Screen Interval (ft): — Well Diameter (inch): 2" Casing Volume: —

Pump Placement (ft): — DTW After Purge (ft): — 3 Casing Volumes: —

Sampler(s): George A. Hickman

Purging Equipment:

- ☐ Disposable Bailer
☐ Electric Submersible Pump
☒ Bladder Pump

Sampling Equipment:

- ☐ Disposable Bailer
☒ Dedicated Tubing
☐ Other: —

Volume of Schedule 40 PVC Pipe	
Well Diameter (inches)	gal/linear ft.
1.00	0.041
2.00	0.163
3.00	0.367
4.00	0.653
5.00	1.023
6.00	1.469

Type of Water Quality Meter Used: Hanna U-52

- ☒ Low-Flow/Micro Purging
☐ Purge at least 3 well volumes

Time (24 hrs)	Water Level (ft TOC)	Turbidity (NTUs)	DO (mg/l)	pH (units)	Spec. Cond. (uS/cm)	ORP (mv)	Temp. (°C or °F)	Rate (ml/min)	Total Volume
—	—	(± 10%)	(± 0.3)	(± 0.1)	(± 3%)	(± 10mV)	—	—	—
0703	10.40	4.2	2.52	7.99	3.34	-109	31.65	350	1050
0706	10.40	3.0	1.78	8.03	3.34	-113	31.58	350	2100
0709	10.41	2.1	1.39	7.99	3.31	-113	31.67	350	3150
0712	10.41	1.8	1.17	7.98	3.29	-116	31.78	350	4200
0715	10.41	0.96	1.06	7.95	3.28	-119	31.82	350	5250
0718	10.41	0.59	0.98	7.95	3.28	-120	31.89	350	6300
0721	10.42	0.45	0.83	7.94	3.27	-122	31.96	350	7350
0724	10.42	0.34	0.77	7.95	3.27	-123	31.95	350	8400
0727	10.42	0.30	0.74	7.95	3.27	-124	31.96	350	9450
CAM									

Notes:

Sampled 0727

Total Gallons Purged: —

Presence of Sheen in groundwater sample (yes/no): (no)

Sample ID and Analysis: MW1-1A

Duplicate Sample: 1 N1A

Equipment Blank: —

Groundwater Purging and Sampling Log

6900D Kaunualii Hwy
Kekaha, Hawaii 96752
PH 808.337.1416

Project No: <u>WB 3074</u>		Task No: <u>01/1.3</u>		Project Name: <u>Kekaha Landfill</u>		Date: <u>8 / 19 / 25</u>	
Site Location: <u>Kauai, HI</u>		Depth to Water (DTW)(ft): <u>8.99</u>		Measurements Referenced to: <u>TOC</u>			
Well ID: <u>mw 1-2A</u>		Total Well Depth (ft): <u>—</u>		OVM (ppm) = <u>—</u>			
Screen Interval (ft): <u>—</u>		Well Diameter (inch): <u>2"</u>		Casing Volume: <u>—</u>			
Pump Placement (ft): <u>—</u>		DTW After Purge (ft): <u>—</u>		3 Casing Volumes: <u>—</u>			
Sampler(s): <u>George A. Nicholson</u>							

Purging Equipment:

- ☐ Disposable Bailer
☐ Electric Submersible Pump
☒ Bladder Pump

Sampling Equipment:

- ☐ Disposable Bailer
☒ Dedicated Tubing
☐ Other: —

Type of Water Quality Meter Used: Horiba U-S2

- ☒ Low-Flow/Micro Purging
☐ Purge at least 3 well volumes

Volume of Schedule 40 PVC Pipe

Well Diameter (inches)	gal/linear ft.
1.00	0.041
2.00	0.163
3.00	0.367
4.00	0.653
5.00	1.023
6.00	1.469

Time (24 hrs)	Water Level (ft TOC)	Turbidity (NTUs)	DO (mg/l)	pH (units)	Spec.Cond. (uS/cm)	ORP (mv)	Temp. (°C or °F)	Rate (ml/min)	Total Volume
—	—	(+ 10%)	(+ 0.3)	(+ 0.1)	(+ 3%)	(+ 10mV)	—	—	—
0858	9.06	.50	2.74	7.79	2.71	-74	30.63	300	900
0901	9.06	.32	2.05	7.74	2.70	-73	30.62	300	1800
0904	9.06	.19	1.70	7.73	2.70	-76	30.63	300	2700
0907	9.08	.12	1.62	7.74	2.70	-81	30.59	300	3600
0910	9.08	.9	1.58	7.75	2.70	-83	30.59	300	4500
0913	9.08	.7	1.57	7.76	2.70	-85	30.59	300	5400
0916	9.08	.5	1.58	7.76	2.70	-88	30.59	300	6300
CAH									

Notes:

Sampled 0916

Total Gallons Purged: —

Presence of Sheen in groundwater sample (yes/no): (no)

Sample ID and Analysis: mw 1-2A

Duplicate Sample: N/A

Equipment Blank: —

Groundwater Purging and Sampling Log

Project No: <u>WG 3074</u>	Task No: <u>01/1.3</u>	Project Name: <u>Kekaha Landfill</u>	Date: <u>8/19/20</u>
Site Location: <u>Kauai, HI</u>	Depth to Water (DTW)(ft): <u>9.63</u>	Measurements Referenced to: TOC	
Well ID: <u>mw 1-3A</u>	Total Well Depth (ft): <u>—</u>	OVM (ppm) =	
Screen Interval (ft): <u>—</u>	Well Diameter (inch): <u>2"</u>	Casing Volume:	
Pump Placement (ft): <u>—</u>	DTW After Purge (ft): <u>—</u>	3 Casing Volumes:	
Sampler(s): <u>George A. Nicholson</u>			

Purging Equipment:

- ☐ Disposable Bailor
☐ Electric Submersible Pump
☒ Bladder Pump

Sampling Equipment:

- ☐ Disposable Bailor
☒ Dedicated Tubing
☐ Other: _____

Type of Water Quality Meter Used: Horiba U-52

- ☒ Low-Flow/Micro Purging
☐ Purge at least 3 well volumes

Volume of Schedule 40 PVC Pipe	
Well Diameter (inches)	gal/linear ft.
1.00	0.041
2.00	0.163
3.00	0.367
4.00	0.653
5.00	1.023
6.00	1.469

Time (24 hrs)	Water Level (ft TOC)	Turbidity (NTUs)	DO (mg/l)	pH (units)	Spec.Cond. (uS/cm)	ORP (mv)	Temp. (°C or °F)	Rate (ml/min)	Total Volume
—	—	(± 10%)	(± 0.3)	(± 0.1)	(± 3%)	(± 10mV)	—	—	—
1010	9.73	.84	1.62	7.95	2.28	42	29.69	400	1200
1013	9.73	.54	1.63	7.86	2.29	50	29.66	400	2400
1016	9.73	.49	1.45	7.87	2.27	50	29.60	400	3600
1019	9.73	.21	1.23	7.87	2.27	49	29.52	400	4800
1022	9.74	.17	.92	7.86	2.26	49	29.48	400	6000
1025	9.74	.15	.81	7.89	2.26	48	29.53	400	7200
1028	9.74	.14	.79	7.88	2.25	48	29.54	400	8400
1031	9.74	.10	.59	7.88	2.25	48	29.54	400	9600
GATH									

Notes:

Sampled 1031

Total Gallons Purged:

Presence of Sheen in groundwater sample (yes/no):

Sample ID and Analysis: mw 1-3A

Duplicate Sample: NIA

Equipment Blank: —

Groundwater Purging and Sampling Log

Project No: WG3074 Task No: 01/03 Project Name: Kekaha Land Fill Date: 8/18/25

Site Location: Kauai, HI Depth to Water (DTW)(ft): 11.45 Measurements Referenced to: TOC

Well ID: mw 11-2 Total Well Depth (ft): — OVM (ppm) = —

Screen Interval (ft): — Well Diameter (inch): 2" Casing Volume: —

Pump Placement (ft): — DTW After Purge (ft): — 3 Casing Volumes: —

Sampler(s): George A. Nicholson

Purging Equipment:

- () Disposable Bailer
() Electric Submersible Pump
☒ Bladder Pump

Sampling Equipment:

- () Disposable Bailer
☒ Dedicated Tubing
() Other: —

Type of Water Quality Meter Used: Horiba U-52

- ☒ Low-Flow/Micro Purging
() Purge at least 3 well volumes

Volume of Schedule 40 PVC Pipe	
Well Diameter (inches)	gal/linear ft.
1.00	0.041
2.00	0.163
3.00	0.367
4.00	0.653
5.00	1.023
6.00	1.469

Time (24 hrs)	Water Level (ft TOC)	Turbidity (NTUs)	DO (mg/l)	pH (units)	Spec. Cond. (uS/cm)	ORP (mv)	Temp. (°C or °F)	Rate (ml/min)	Total Volume
—	—	(± 10%)	(± 0.3)	(± 0.1)	(± 3%)	(± 10mV)	—	—	—
0847	11.50	0.79	5.00	7.92	2.00	36	29.65	250	
0850	11.50	0.69	1.94	7.90	2.01	35	29.60	250	
0853	11.50	0.74	1.64	7.89	2.01	37	29.58	250	
0856	11.51	0.62	1.52	7.89	2.01	38	29.56	250	
0859	11.51	0.45	1.36	7.89	2.01	42	29.55	250	
0902	11.52	0.29	1.16	7.90	2.01	46	29.54	250	
0905	11.52	0.21	1.08	7.91	2.01	49	29.53	250	
0907	11.52	0.15	1.07	7.91	2.01	50	29.52	250	
0910	11.52	0.10	1.08	7.91	2.01	50	29.52	250	
GALT									

Notes:

Sample 0910

Total Gallons Purged: —

Presence of Sheen in groundwater sample (yes/no): no

Sample ID and Analysis: mw 11-2

Duplicate Sample: N/A

Equipment Blank: —

Groundwater Purging and Sampling Log

Project No: W63074 Task No: 01/1.3 Project Name: Kekaha Landfill Date: 8/18/25

Site Location: Kauai HI Depth to Water (DTW)(ft): 9.41 Measurements Referenced to: TOC

Well ID: mw11-5 Total Well Depth (ft): — OVM (ppm) = —

Screen Interval (ft): — Well Diameter (inch): 2" Casing Volume: —

Pump Placement (ft): — DTW After Purge (ft): — 3 Casing Volumes: —

Sampler(s): George A. Hildborn

Purging Equipment:

- ☐ Disposable Bailer
☐ Electric Submersible Pump
☒ Bladder Pump

Sampling Equipment:

- ☐ Disposable Bailer
☒ Dedicated Tubing
☐ Other: —

Volume of Schedule 40 PVC Pipe	
Well Diameter (inches)	gal/linear ft.
1.00	0.041
2.00	0.163
3.00	0.367
4.00	0.653
5.00	1.023
6.00	1.469

Type of Water Quality Meter Used: Horiba U-52

- ☒ Low-Flow/Micro Purging
☐ Purge at least 3 well volumes

Time (24 hrs)	Water Level (ft TOC)	Turbidity (NTUs)	DO (mg/l)	pH (units)	Spec. Cond. (uS/cm)	ORP (mv)	Temp. (°C or °F)	Rate (ml/min)	Total Volume
—	—	(± 10%)	(± 0.3)	(± 0.1)	(± 3%)	(± 10mV)	—	—	—
0703	9.45	1.36	4.09	7.47	1.53	155	28.86	350	1050
0706	9.45	0.74	1.87	7.66	1.52	145	28.85	350	2100
0709	9.46	0.53	1.52	7.72	1.51	141	29.36	350	3150
0712	9.46	0.33	1.30	7.75	1.51	140	29.27	350	4200
0715	9.46	0.26	1.28	7.80	1.51	133	29.21	350	5250
0718	9.47	0.19	1.29	7.81	1.51	128	29.19	350	6300
0721	9.47	0.15	1.10	7.82	1.51	130	29.20	350	7350
0724	9.47	0.10	1.09	7.81	1.51	131	29.20	350	8400

Notes: Sampled 0724

Total Gallons Purged: —

Presence of Sheen in groundwater sample (yes/no): (no)

Sample ID and Analysis: mw11-5

Duplicate Sample: mw11-5 O.P.

Equipment Blank: NIA

Groundwater Purging and Sampling Log

6900D Kaunualii Hwy
Kekaha, Hawaii 96752
PH 808.337.1416

Project No: <u>WG 3074</u>	Task No: <u>01/1.3</u>	Project Name: <u>Kekaha Landfill</u>	Date: <u>8/18/25</u>
Site Location: <u>Kauai, HI</u>	Depth to Water (DTW)(ft): <u>11.73</u>	Measurements Referenced to: TOC	
Well ID: <u>mw 11-7</u>	Total Well Depth (ft): <u>—</u>	OVM (ppm) =	
Screen Interval (ft): <u>—</u>	Well Diameter (inch): <u>2"</u>	Casing Volume:	
Pump Placement (ft): <u>—</u>	DTW After Purge (ft): <u>—</u>	3 Casing Volumes:	
Sampler(s): <u>George A Nicholson</u>			

Purging Equipment:

- ☐ Disposable Bailer
☐ Electric Submersible Pump
☒ Bladder Pump

Sampling Equipment:

- ☐ Disposable Bailer
☒ Dedicated Tubing
☐ Other: _____

Type of Water Quality Meter Used: Horiba U-52

- ☒ Low-Flow/Micro Purging
☐ Purge at least 3 well volumes

Volume of Schedule 40 PVC Pipe	
Well Diameter (inches)	gal/linear ft.
1.00	0.041
2.00	0.163
3.00	0.367
4.00	0.653
5.00	1.023
6.00	1.469

Time (24 hrs)	Water Level (ft TOC)	Turbidity (NTUs)	DO (mg/l)	pH (units)	Spec. Cond. (uS/cm)	ORP (mv)	Temp. (°C or °F)	Rate (ml/min)	Total Volume
—	—	(± 10%)	(± 0.3)	(± 0.1)	(± 3%)	(± 10mV)	—	—	—
1015	11.74	4.52	3.18	8.02	8.49	-47	28.59	350	1050
1018	11.74	4.25	2.05	8.03	8.47	-67	28.62	350	2100
1021	11.74	2.05	2.00	8.03	8.46	-67	28.57	350	3150
1024	11.75	1.47	1.67	8.04	8.45	-72	28.56	350	4200
1027	11.75	0.98	1.54	8.04	8.45	-71	28.59	350	5250
1030	11.75	0.76	1.50	8.04	8.46	-72	28.58	350	6300
1033	11.76	0.55	1.33	8.05	8.44	-67	28.63	350	7350
1036	11.76	0.42	1.27	8.05	8.44	-66	28.65	350	8400
1039	11.76	0.41	1.18	8.05	8.44	-65	28.64	350	9450
1042	11.76	0.38	1.15	8.06	8.44	-65	28.65	350	10,500

Notes: Sampled 1042

Total Gallons Purged:

Presence of Sheen in groundwater sample (yes/no):

Sample ID and Analysis: mw 11-7

Duplicate Sample: N/A

Equipment Blank:

Groundwater Purging and Sampling Log

Project No: <u>WG 3074</u>	Task No: <u>01/1.3</u>	Project Name: <u>Kekaha Landfill</u>	Date: <u>9 / 1 / 25</u>
Site Location: <u>Kauai, HI</u> Depth to Water (DTW)(ft): <u>10.23</u> Measurements Referenced to: <u>TOC</u>			
Well ID: <u>mw1-1A</u>	Total Well Depth (ft): <u>—</u>	OVM (ppm) = <u>—</u>	
Screen Interval (ft): <u>—</u>	Well Diameter (inch): <u>2"</u>	Casing Volume: <u>—</u>	
Pump Placement (ft): <u>—</u>	DTW After Purge (ft): <u>—</u>	3 Casing Volumes: <u>—</u>	
Sampler(s): <u>George A Nicholson</u>			

Purging Equipment:

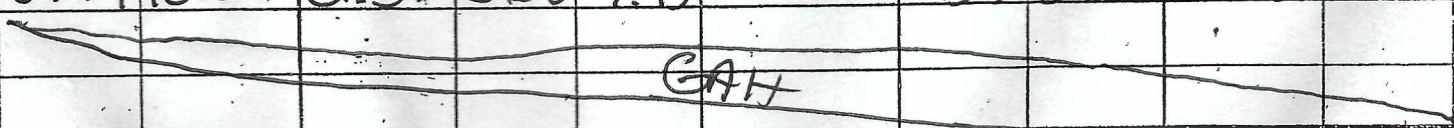
- ☐ Disposable Bailor
☐ Electric Submersible Pump
☒ Bladder Pump

Sampling Equipment:

- ☐ Disposable Bailor
☒ Dedicated Tubing
☐ Other: —

Type of Water Quality Meter Used: Horiba U-52
☒ Low-Flow/Micro Purging
☐ Purge at least 3 well volumes

Volume of Schedule 40 PVC Pipe	
Well Diameter (inches)	gal/linear ft
1.00	0.041
2.00	0.163
3.00	0.367
4.00	0.653
5.00	1.023
6.00	1.469

Time (24 hrs)	Water Level (ft TOC)	Turbidity (NTUs)	DO (mg/l)	pH (units)	Spec.Cond. (uS/cm)	ORP (mv)	Temp. (°C or °F)	Rate (ml/min)	Total Volume
—	—	(± 10%)	(± 0.3)	(± 0.1)	(± 3%)	(± 10mV)	—	—	—
0728	10.25	1.82	1.65	7.55	3.50	-68	31.20	400	1200
0731	10.25	1.01	1.56	7.63	3.47	-82	31.52	400	2400
0734	10.26	0.98	1.12	7.64	3.42	-110	31.79	400	3600
0737	10.26	0.65	0.80	7.92	3.34	-120	31.93	400	4800
0740	10.26	0.55	0.71	7.94	3.29	-129	32.07	400	6000
0743	10.26	0.47	0.60	7.95	3.28	-133	32.16	400	7200
0746	10.26	0.33	0.59	7.95	3.27	-134	32.19	400	8400
0749	10.27	0.31	0.58	7.95	3.27	-135	32.18	400	9600
									

Notes: Sampled 0749

Total Gallons Purged: —
 Presence of Sheen in groundwater sample (yes/no): NO
 Sample ID and Analysis: mw1-1A
 Duplicate Sample: NA
 Equipment Blank: —

Groundwater Purging and Sampling Log

Project No: <u>WB 3074</u>		Task No: <u>01/1-3</u>		Project Name: <u>Kekaha Landfill</u>		Date: <u>9 / 1 / 25</u>	
Site Location: <u>Kauai, HI</u>		Depth to Water (DTW)(ft): <u>9.05</u>		Measurements Referenced to: <u>TOC</u>			
Well ID: <u>mw 1-2A</u>		Total Well Depth (ft): <u>—</u>		OVM (ppm) = <u>—</u>			
Screen Interval (ft): <u>—</u>		Well Diameter (inch): <u>2"</u>		Casing Volume: <u>—</u>			
Pump Placement (ft): <u>—</u>		DTW After Purge (ft): <u>—</u>		3 Casing Volumes: <u>—</u>			
Sampler(s): <u>George A. Nicholson</u>							

Purging Equipment:

- ☐ Disposable Bailor
☐ Electric Submersible Pump
☒ Bladder Pump

Sampling Equipment:

- ☐ Disposable Bailor
☒ Dedicated Tubing
☐ Other: —

Type of Water Quality Meter Used: Horiba U-52

- ☒ Low-Flow/Micro Purging
☐ Purge at least 3 well volumes

Volume of Schedule 40 PVC Pipe	
Well Diameter (inches)	gal/linear ft.
1.00	0.041
2.00	0.163
3.00	0.367
4.00	0.653
5.00	1.023
6.00	1.469

Time (24 hrs)	Water Level (ft TOC)	Turbidity (NTUs)	DO (mg/l)	pH (units)	Spec. Cond. (uS/cm)	ORP (mv)	Temp. (°C or °F)	Rate (ml/min)	Total Volume
—	—	(± 10%)	(± 0.3)	(± 0.1)	(± 3%)	(± 10mV)	—	—	—
0821	9.03	0.74	2.99	7.60	2.77	-83	30.65	400	1200
0824	9.03	0.55	1.82	7.59	2.78	-91	30.68	400	2400
0827	9.03	0.32	1.69	7.57	2.78	-101	30.68	400	3600
0830	9.04	0.20	1.83	7.57	2.78	-98	30.70	400	4800
0833	9.04	0.16	1.93	7.57	2.77	-97	30.70	400	6000
0836	9.04	0.14	1.94	7.57	2.77	97	30.70	400	7200

Notes:

Sampled 0836

Total Gallons Purged:

Presence of Sheen in groundwater sample (yes/no): No

Sample ID and Analysis: mw 1-2A

Duplicate Sample: N/A

Equipment Blank:

Groundwater Purging and Sampling Log

Project No: W63074 Task No: 01/1.3 Project Name: Kekaha Landfill Date: 9 / 1 / 25

Site Location: Kauai, HI Depth to Water (DTW)(ft): 9.35 Measurements Referenced to: TOC

Well ID: mw1-3A Total Well Depth (ft): — OVM (ppm) = —

Screen Interval (ft): — Well Diameter (inch): 2" Casing Volume: —

Pump Placement (ft): — DTW After Purge (ft): — 3 Casing Volumes: —

Sampler(s): George A Nicholson

Purging Equipment:

() Disposable Bailer

() Electric Submersible Pump

☒ Bladder Pump

Sampling Equipment:

() Disposable Bailer

☒ Dedicated Tubing

() Other: —

Type of Water Quality Meter Used:

☒ Low-Flow/Micro Purging

() Purge at least 3 well volumes

Volume of Schedule 40 PVC Pipe

Well Diameter (inches)	gal/linear ft
1.00	0.041
2.00	0.163
3.00	0.367
4.00	0.653
5.00	1.023
6.00	1.469

Time (24 hrs)	Water Level (ft TOC)	Turbidity (NTUs)	DO (mg/l)	pH (units)	Spec.Cond. (uS/cm)	ORP (mv)	Temp. (°C or °F)	Rate (ml/min)	Total Volume
—	—	(± 10%)	(± 0.3)	(± 0.1)	(± 3%)	(± 10mV)	—	—	—
0923	9.29	1.20	1.56	7.81	2.18	65	29.62	350	1050
0926	9.29	.98	1.47	7.74	2.16	67	29.53	350	2100
0929	9.30	.70	1.17	7.72	2.15	66	29.49	350	3150
0932	9.30	.57	.92	7.72	2.14	64	29.50	350	4200
0935	9.30	.42	.80	7.71	2.14	63	29.51	350	5250
0938	9.31	.28	.75	7.70	2.13	63	29.50	350	6300
0941	9.31	.10	.67	7.70	2.13	61	29.51	350	7350
GPAH									

Notes:

Sampled 0941

Total Gallons Purged:

Presence of Sheen in groundwater sample (yes/no): NO

Sample ID and Analysis: mw1-3A

Duplicate Sample: N/A

Equipment Blank:

Groundwater Purging and Sampling Log

Project No: W63074 Task No: 01/1.3 Project Name: Kekaha Landfill Date: 9 / 1 / 25

Site Location: Kauai, HI Depth to Water (DTW)(ft): 11.42 Measurements Referenced to: TOC

Well ID: mw11-2 Total Well Depth (ft): — OVM (ppm) = —

Screen Interval (ft): — Well Diameter (inch): 2" Casing Volume: —

Pump Placement (ft): — DTW After Purge (ft): — 3 Casing Volumes: —

Sampler(s): George A Nicholson

Purging Equipment:

- () Disposable Bailer
() Electric Submersible Pump
☒ Bladder Pump

Sampling Equipment:

- () Disposable Bailer
☒ Dedicated Tubing
() Other: —

Type of Water Quality Meter Used: Horiba U-52

- ☒ Low-Flow/Micro Purging
() Purge at least 3 well volumes

Volume of Schedule 40 PVC Pipe	
Well Diameter (inches)	gal/linear ft
1.00	0.041
2.00	0.163
3.00	0.367
4.00	0.653
5.00	1.023
6.00	1.469

Time (24 hrs)	Water Level (ft TOC)	Turbidity (NTUs)	DO (mg/l)	pH (units)	Spec.Cond. (uS/cm)	ORP (mv)	Temp. (°C or °F)	Rate (ml/min)	Total Volume
—	—	(± 10%)	(± 0.3)	(± 0.1)	(± 3%)	(± 10mV)	—	—	—
1022	11.45	.85	2.27	7.78	202	68	30.01	250	750
1025	11.45	.76	2.54	7.71	2.02	66	30.00	250	1500
1028	11.46	.66	1.34	7.68	2.01	53	30.00	250	2250
1031	11.45	.58	1.17	7.67	2.01	53	29.99	250	3000
1034	11.46	.46	1.08	7.67	2.01	50	29.97	250	3750
1037	11.46	.34	1.01	7.67	2.00	50	29.98	250	4500
1040	11.46	.22	.94	7.67	2.00	49	29.98	250	5250
GALT									

Notes:

Sampled 1040

Total Gallons Purged:

Presence of Sheen in groundwater sample (yes/no): NO

Sample ID and Analysis: mw11-2

Duplicate Sample: N/A

Equipment Blank:

Groundwater Purging and Sampling Log

Project No: <u>WB 3074</u>	Task No: <u>01/1.3</u>	Project Name: <u>Kekaha Landfill</u>	Date: <u>9/1/25</u>
Site Location: <u>Kauai, HI</u>	Depth to Water (DTW)(ft): <u>9.35</u>	Measurements Referenced to: TOC	
Well ID: <u>mw11-5</u>	Total Well Depth (ft): <u>—</u>	OVM (ppm) =	
Screen Interval (ft): <u>—</u>	Well Diameter (inch): <u>2"</u>	Casing Volume:	
Pump Placement (ft): <u>—</u>	DTW After Purge (ft): <u>—</u>	3 Casing Volumes:	
Sampler(s): <u>George A Nicholson</u>			

Purging Equipment:

- ☐ Disposable Bailor
☐ Electric Submersible Pump
☒ Bladder Pump

Sampling Equipment:

- ☐ Disposable Bailor
☒ Dedicated Tubing
☐ Other: _____

Type of Water Quality Meter Used: Horiba U-52

- ☒ Low-Flow/Micro Purging
☐ Purge at least 3 well volumes

Volume of Schedule 40 PVC Pipe	
Well Diameter (inches)	gal/linear ft
1.00	0.041
2.00	0.163
3.00	0.367
4.00	0.653
5.00	1.023
6.00	1.469

Time (24 hrs)	Water Level (ft TOC)	Turbidity (NTUs)	DO (mg/l)	pH (units)	Spec. Cond. (uS/cm)	ORP (mv)	Temp. (°C or °F)	Rate (ml/min)	Total Volume
		(± 10%)	(± 0.3)	(± 0.1)	(± 3%)	(± 10mV)			
0634	9.25	1.56	3.17	7.71	1.50	135	28.59	300	900
0637	9.25	1.38	2.10	7.72	1.50	137	29.08	300	1800
0640	9.30	0.88	1.86	7.68	1.50	139	29.31	300	2700
0643	9.30	0.65	1.59	7.68	1.50	139	29.30	300	3600
0646	9.30	0.60	1.70	7.65	1.50	141	29.28	300	4500
0649	9.31	0.45	1.66	7.64	1.50	143	29.26	300	5400
0652	9.31	0.28	1.37	7.63	1.50	1.36	29.35	300	6300
GAW									

Notes:

Sampled 0652

Total Gallons Purged:

Presence of Sheen in groundwater sample (yes/no): NO

Sample ID and Analysis: mw11-5 / Dup

Duplicate Sample: YES

Equipment Blank:

Groundwater Purging and Sampling Log

Project No: <u>WG 3074</u>		Task No: <u>01/1.3</u>		Project Name: <u>Kekaha Landfill</u>		Date: <u>9/1/25</u>	
Site Location: <u>Kauai, HI</u>		Depth to Water (DTW)(ft): <u>11.72</u>		Measurements Referenced to: <u>TOC</u>			
Well ID: <u>mw 11-7</u>		Total Well Depth (ft): <u>—</u>		OVM (ppm) = <u>—</u>			
Screen Interval (ft): <u>—</u>		Well Diameter (inch): <u>2"</u>		Casing Volume: <u>—</u>			
Pump Placement (ft): <u>—</u>		DTW After Purge (ft): <u>—</u>		3 Casing Volumes: <u>—</u>			
Sampler(s): <u>George A Nicholson</u>							

Purging Equipment:

() Disposable Bailer

() Electric Submersible Pump

☒ Bladder Pump

Sampling Equipment:

() Disposable Bailer

☒ Dedicated Tubing

() Other: —

Type of Water Quality Meter Used:

☒ Low-Flow/Micro Purging

() Purge at least 3 well volumes

Volume of Schedule 40 PVC Pipe	
Well Diameter (inches)	gal/linear ft.
1.00	0.041
2.00	0.163
3.00	0.367
4.00	0.653
5.00	1.023
6.00	1.469

Time (24 hrs)	Water Level (ft TOC)	Turbidity (NTUs)	DO (mg/l)	pH (units)	Spec.Cond. (uS/cm)	ORP (mv)	Temp. (°C or °F)	Rate (ml/min)	Total Volume
—	—	(± 10%)	(± 0.3)	(± 0.1)	(± 3%)	(± 10mV)	—	—	—
1115	11.71	5.41	2.05	7.97	7.86	-49	29.25	350	1050
1118	11.71	3.15	1.42	7.98	7.87	-89	29.02	350	2100
1120	11.71	2.35	1.19	7.98	8.01	-91	28.94	350	3150
1123	11.72	1.17	.99	7.97	8.13	-97	28.83	350	4200
1126	11.72	.90	.87	7.97	8.34	-1.02	28.82	350	5250
1129	11.72	.72	.86	7.97	8.38	-1.04	28.81	350	6300
1133	11.72	.50	.85	7.96	8.37	-1.06	28.81	350	7350
1136	11.73	.49	.84	7.96	8.38	-1.07	28.81	350	8400
1139	11.73	.40	.83	7.96	8.38	-1.08	28.81	350	9450
GAH									

Notes:

Sampled 1139

Total Gallons Purged: —

Presence of Sheen in groundwater sample (yes/no): NO

Sample ID and Analysis: mw 11-7

Duplicate Sample: N/A

Equipment Blank: —

WELL CONDITION INSPECTION FORM

Site: Ke Kaha Landfill

Personnel: George A. Nicholson

Date: 8-20-25

Page 1 of 1

Well ID	Protective Casing	Well Casing	Label	Lock	Sample Equipment Type	General Turbidity	Well Yield	Comments/Observations *
<u>mw 11-5</u>	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☐ Yes ☒ No	<u>Horiba</u> <u>U-52</u>	☒ Clear ☐ Turbid	☒ OK ☐ Inadequate	<u>Surface Vault</u>
<u>mw 11-2</u>	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	↓	☒ Clear ☐ Turbid	☒ OK ☐ Inadequate	
<u>mw 11-7</u>	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No		☒ Clear ☐ Turbid	☒ OK ☐ Inadequate	
<u>mw 1-1A</u>	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No		☒ Clear ☐ Turbid	☒ OK ☐ Inadequate	
<u>mw 1-2A</u>	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No		☒ Clear ☐ Turbid	☒ OK ☐ Inadequate	
<u>mw 1-3A</u>	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No		☒ Clear ☐ Turbid	☒ OK ☐ Inadequate	
	☐ OK ☐ Damaged	☐ OK ☐ Damaged	☐ OK ☐ Inadequate	☐ Yes ☐ No		☐ Clear ☐ Turbid	☐ OK ☐ Inadequate	
	☐ OK ☐ Damaged	☐ OK ☐ Damaged	☐ OK ☐ Inadequate	☐ Yes ☐ No		☐ Clear ☐ Turbid	☐ OK ☐ Inadequate	
	☐ OK ☐ Damaged	☐ OK ☐ Damaged	☐ OK ☐ Inadequate	☐ Yes ☐ No		☐ Clear ☐ Turbid	☐ OK ☐ Inadequate	
	☐ OK ☐ Damaged	☐ OK ☐ Damaged	☐ OK ☐ Inadequate	☐ Yes ☐ No		☐ Clear ☐ Turbid	☐ OK ☐ Inadequate	

* Note ponding water, weep holes, or any other information pertaining to well condition. Provide additional details on listed items.

Return this form to Site Manager and Groundwater Program Manager

Well Condition Summary Form

Facility: Kekaha Landfill

Well/Piezometer Name: MW1-1A

Evaluator: George A. Hienboen

Evaluation Date: 8-19-25

	Y	N	N/A
Is the well's location appropriately shown on a facility map?	X		
Is the well adequately flagged if hard to find?	X		
Is the well elevation information inscribed at or on the well correct?			X
Is the well:			
☐ flush with surface?			
☒ above ground?			
Is the well free of physical damage?	X		
Is the well labeled on the inside?	X		
Is the well labeled on the outside?	X		
Does the well have protective posts, if necessary?	X		
Do above ground wells have weep holes at the base of the protective casing?	X		
Does the area around the well appear clean?	X		
Is the casing secure (attempt to move along two perpendicular axes)?	X		
Is the surface seal void of differential erosion around and under the base?	X		
Is the surface seal free of cracks that might affect the integrity of the seal?	X		
Is the surface seal sloped to prevent ponding around the well?	X		
Is the well free from standing or ponded water?	X		
Is the well locked to prevent unauthorized access?	X		
Is the protective casing cap void of large gaps which would breach security?	X		
Is the locking cap free of rust?	X		
Is there a survey mark on the riser/wellhead assembly cap?	X		
Is the riser cap vented?	X		
Is the annular space free of animal/insect nests?	X		
Is the annular space appropriately filled with filtering material?	X		
If a pump, can it be lifted a few inches? (do not test prior to sampling)	X		
Is the well free of kinks or bends?	X		

COMMENTS: No Issues

Well Condition Summary Form

Facility: Kekaha Landfill

Well/Piezometer Name: mw1-2A

Evaluator: George A. Hitchcock

Evaluation Date: 8-19-25

	Y	N	N/A
Is the well's location appropriately shown on a facility map?	X		
Is the well adequately flagged if hard to find?	X		
Is the well elevation information inscribed at or on the well correct?			X
Is the well:			
☐ flush with surface?			
☒ above ground?			
Is the well free of physical damage?	X		
Is the well labeled on the inside?	X		
Is the well labeled on the outside?	X		
Does the well have protective posts, if necessary?	X		
Do above ground wells have weep holes at the base of the protective casing?	X		
Does the area around the well appear clean?	X		
Is the casing secure (attempt to move along two perpendicular axes)?	X		
Is the surface seal void of differential erosion around and under the base?	X		
Is the surface seal free of cracks that might affect the integrity of the seal?	X		
Is the surface seal sloped to prevent ponding around the well?	X		
Is the well free from standing or ponded water?	X		
Is the well locked to prevent unauthorized access?	X		
Is the protective casing cap void of large gaps which would breach security?	X		
Is the locking cap free of rust?	X		
Is there a survey mark on the riser/wellhead assembly cap?	X		
Is the riser cap vented?	X		
Is the annular space free of animal/insect nests?	X		
Is the annular space appropriately filled with filtering material?	X		
If a pump, can it be lifted a few inches? (do not test prior to sampling)	X		
Is the well free of kinks or bends?	X		

COMMENTS: No Issues

Well Condition Summary Form

Facility: Kekaha Landfill Well/Piezometer Name: MW1-3A

Evaluator: George A. Hickman Evaluation Date: 8-19-25

	Y	N	N/A
Is the well's location appropriately shown on a facility map?	X		
Is the well adequately flagged if hard to find?	X		
Is the well elevation information inscribed at or on the well correct?			X
Is the well:			
☐ flush with surface?			
☒ above ground?			
Is the well free of physical damage?	X		
Is the well labeled on the inside?	X		
Is the well labeled on the outside?	X		
Does the well have protective posts, if necessary?	X		
Do above ground wells have weep holes at the base of the protective casing?	X		
Does the area around the well appear clean?	X		
Is the casing secure (attempt to move along two perpendicular axes)?	X		
Is the surface seal void of differential erosion around and under the base?	X		
Is the surface seal free of cracks that might affect the integrity of the seal?	X		
Is the surface seal sloped to prevent ponding around the well?	X		
Is the well free from standing or ponded water?	X		
Is the well locked to prevent unauthorized access?	X		
Is the protective casing cap void of large gaps which would breach security?	X		
Is the locking cap free of rust?	X		
Is there a survey mark on the riser/wellhead assembly cap?	X		
Is the riser cap vented?	X		
Is the annular space free of animal/insect nests?	X		
Is the annular space appropriately filled with filtering material?	X		
If a pump, can it be lifted a few inches? (do not test prior to sampling)	X		
Is the well free of kinks or bends?	X		

COMMENTS: No Issues

Well Condition Summary Form

Facility: Kehaha Landfill Well/Piezometer Name: mw 11-2

Evaluator: George Hicken Evaluation Date: 8-18-25

	Y	N	N/A
Is the well's location appropriately shown on a facility map?	X		
Is the well adequately flagged if hard to find?	X		
Is the well elevation information inscribed at or on the well correct?			X
Is the well:			
☐ flush with surface?			
☒ above ground?			
Is the well free of physical damage?	X		
Is the well labeled on the inside?	X		
Is the well labeled on the outside?	X		
Does the well have protective posts, if necessary?	X		
Do above ground wells have weep holes at the base of the protective casing?	X		
Does the area around the well appear clean?	X		
Is the casing secure (attempt to move along two perpendicular axes)?	X		
Is the surface seal void of differential erosion around and under the base?	X		
Is the surface seal free of cracks that might affect the integrity of the seal?	X		
Is the surface seal sloped to prevent ponding around the well?	X		
Is the well free from standing or ponded water?	X		
Is the well locked to prevent unauthorized access?	X		
Is the protective casing cap void of large gaps which would breach security?	X		
Is the locking cap free of rust?	X		
Is there a survey mark on the riser/wellhead assembly cap?	X		
Is the riser cap vented?	X		
Is the annular space free of animal/insect nests?	X		
Is the annular space appropriately filled with filtering material?	X		
If a pump, can it be lifted a few inches? (do not test prior to sampling)	X		
Is the well free of kinks or bends?	X		

COMMENTS: NO ISSUES

Well Condition Summary Form

Facility: Kekaha Landfill Well/Piezometer Name: mw11-5

Evaluator: George A. Hickman Evaluation Date: 8-18-25

	Y	N	N/A
Is the well's location appropriately shown on a facility map?	X		
Is the well adequately flagged if hard to find?	X		
Is the well elevation information inscribed at or on the well correct?			X
Is the well:			
☒ flush with surface?			
☐ above ground?			
Is the well free of physical damage?	X		
Is the well labeled on the inside?	X		
Is the well labeled on the outside?	X		
Does the well have protective posts, if necessary?			X
Do above ground wells have weep holes at the base of the protective casing?			X
Does the area around the well appear clean?	X		
Is the casing secure (attempt to move along two perpendicular axes)?	X		
Is the surface seal void of differential erosion around and under the base?	X		
Is the surface seal free of cracks that might affect the integrity of the seal?	X		
Is the surface seal sloped to prevent ponding around the well?	X		
Is the well free from standing or ponded water?	X		
Is the well locked to prevent unauthorized access?		X	
Is the protective casing cap void of large gaps which would breach security?			X
Is the locking cap free of rust?	X		
Is there a survey mark on the riser/wellhead assembly cap?	X		
Is the riser cap vented?	X		
Is the annular space free of animal/insect nests?	X		
Is the annular space appropriately filled with filtering material?	X		
If a pump, can it be lifted a few inches? (do not test prior to sampling)	X		
Is the well free of kinks or bends?	X		

COMMENTS: NO issues

Well Condition Summary Form

Facility: Kekaha Landfill Well/Piezometer Name: mw 11-7

Evaluator: George A Hitchcock Evaluation Date: 8-18-25

	Y	N	N/A
Is the well's location appropriately shown on a facility map?	X		
Is the well adequately flagged if hard to find?	X		
Is the well elevation information inscribed at or on the well correct?			X
Is the well:			
☐ flush with surface?			
☒ above ground?			
Is the well free of physical damage?	X		
Is the well labeled on the inside?	X		
Is the well labeled on the outside?	X		
Does the well have protective posts, if necessary?	X		
Do above ground wells have weep holes at the base of the protective casing?	X		
Does the area around the well appear clean?	X		
Is the casing secure (attempt to move along two perpendicular axes)?	X		
Is the surface seal void of differential erosion around and under the base?	X		
Is the surface seal free of cracks that might affect the integrity of the seal?	X		
Is the surface seal sloped to prevent ponding around the well?	X		
Is the well free from standing or ponded water?	X		
Is the well locked to prevent unauthorized access?	X		
Is the protective casing cap void of large gaps which would breach security?	X		
Is the locking cap free of rust?	X		
Is there a survey mark on the riser/wellhead assembly cap?	X		
Is the riser cap vented?	X		
Is the annular space free of animal/insect nests?	X		
Is the annular space appropriately filled with filtering material?	X		
If a pump, can it be lifted a few inches? (do not test prior to sampling)	X		
Is the well free of kinks or bends?	X		

COMMENTS: NO ISSUES

**PHASE 1 QUARTERLY SITE INSPECTION
KEKAHA SANITARY LANDFILL GCCS
KEKAHA, KAUA'I, HAWAII**

Technician: George Hichborn Weather condition: Partly Cloudy

Inspection Date and Time: 29-Jul-25

COVER INSPECTION	YES	NO	COMMENTS
Issues with Infiltration Ditch		No	
Issues with Storm water pipe inlets		No	
Issues with storm water pipe outlets and energy dissipaters		No	
Signs of Landfill Settlement		No	
Signs of Landfill Gas Migration (Dead or Brown Vegetation)		No	
Erosion on cap system - deck and side slopes		No	
Issues with Landfill security measures (Gate Fencing, etc.)		No	Looking good

ACTION TAKEN				
Repair Item	Location		Date	Comments
	Latitude	Longitude		
Section of fencing need repair from tree				Repaired from last quarter 18 July 2025
Comments:				

Note

**For Location of Observation and Repairs Made: Show on Map and provide GPS coordinates

eurofins | Environment Testing
America

[illegible]

Eurofins Denver

4955 Yarrow Street
Arvada, CO 80002
Phone: 303-736-0100 Fax: 303-431-7171

Chain of Custody Record



Environment Testing

Client Information		Sampler: <u>George A. Nicholson</u>		Lab PM: McCabe, Shelby R		Carrier Tracking No(s):		COC No: 280-153742-41973.1	
Client Contact: Mr. Justin Lottig		Phone: <u>480-318-9459</u>		E-Mail: Shelby.McCabe@et.eurofinsus.com		State of Origin: HI		Page: Page 1 of 1	
Company: Geosyntec Consultants Inc		PWSID:		Analysis Requested					
Address: 920 SW Sixth Avenue Suite 600		Due Date Requested:		280-212823 Chain of Custody 					
City: Portland		TAT Requested (days):							
State, Zip: OR, 97204		Compliance Project: ☐ Yes ☐ No							
Phone: 971-271-5917(Tel)		PO #: WO-CO2-WG3074-100035480							
Email: JLottig@Geosyntec.com		WO #: Project Number: WG3074- Kekaha Env.							
Project Name: Kekaha Landfill - Geosyntec Event Desc: Quarterly Groundwater		Project #: 28002962		Total Number of containers					
Site: Hawaii		SSOW#:							
Sample Identification		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=wasteloid, BT=Tissue, A=Air, DW=Drinking Water)	Field Filtered Sample (Yes or No)		Preservation Codes	
TRIP BLANK		9-1-25		G	Water				
mw 11-5		9-1-25	0652	G	Water		X		
DUP mw 1-5		9-1-25	0652	G	Water		X		
mw 1-1A		9-1-25	0749	G	Water		X		
mw 1-2A		9-1-25	0836	G	Water		X		
mw 1-3A		9-1-25	0941	G	Water		X		
mw 11-2		9-1-25	1040	G	Water		X		
mw 11-7		9-1-25	1139	G	Water		X		
Field Blank		9-1-25	1207	G	Water		X		
					Water				
					Water				
Possible Hazard Identification ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological						Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months			
Deliverable Requested: I, II, III, IV, Other (specify)						Special Instructions/QC Requirements:			
Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:			
Relinquished by: <u>George Nicholson</u>		Date/Time: <u>9-2-25 11:39</u>		Company: <u>GEOSYNTec</u>		Received by: <u>[Signature]</u>		Date/Time: <u>9-4-25 0930</u>	
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:	
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:	
Custody Seals Intact: ☐ Yes ☐ No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: <u>0-9°C PA30 LF-0-2</u>					

Certificate of Calibration

Instrument Type: Horiba U-52

Serial Number: 2F50

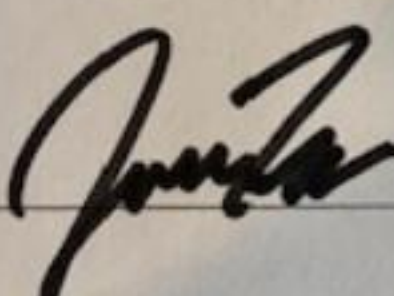
Calibration Solution : Lot# 21470033 EXP. SEP./2026

Calibration Solution

Temp 17.6 C
pH 4.00
Cond. 0.00 mS/cm/4.49 mS/cm
Turbidity 0 NTU/800 NTU
DO 0.00 mg/l /10.50 mg/l @17.6 C

Result

Temp 17.6 C
pH 4.00
Cond. 0.00 mS/cm/4.49 mS/cm
Turbidity 0 NTU/800 NTU
DO 0.00 mg/l /10.50 mg/l @17.6C

Calibrated by: 

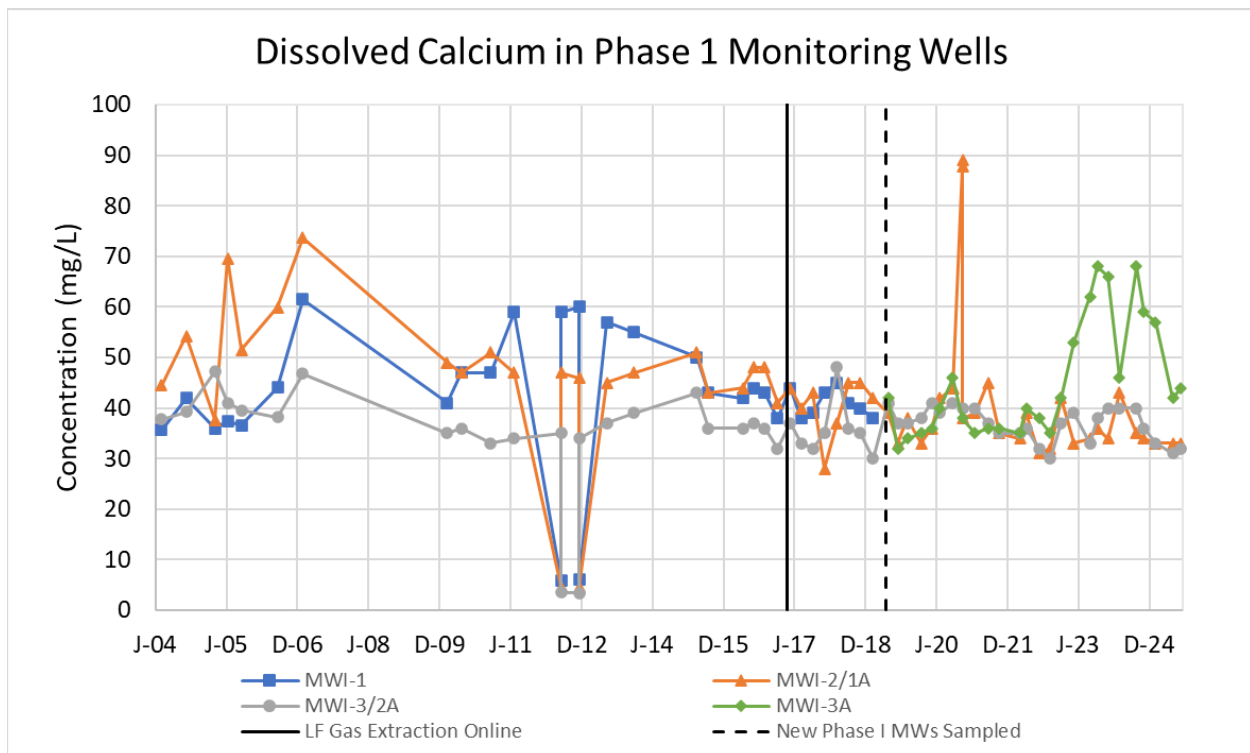
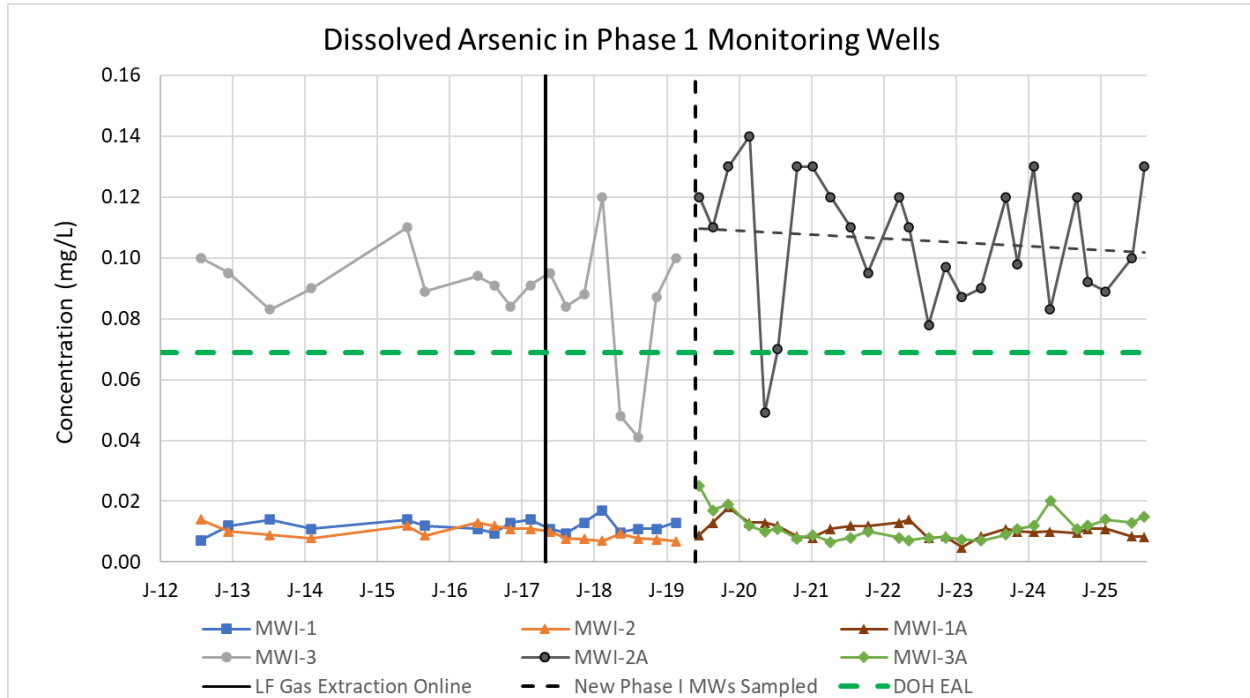
Calibration Date: 8/27/25

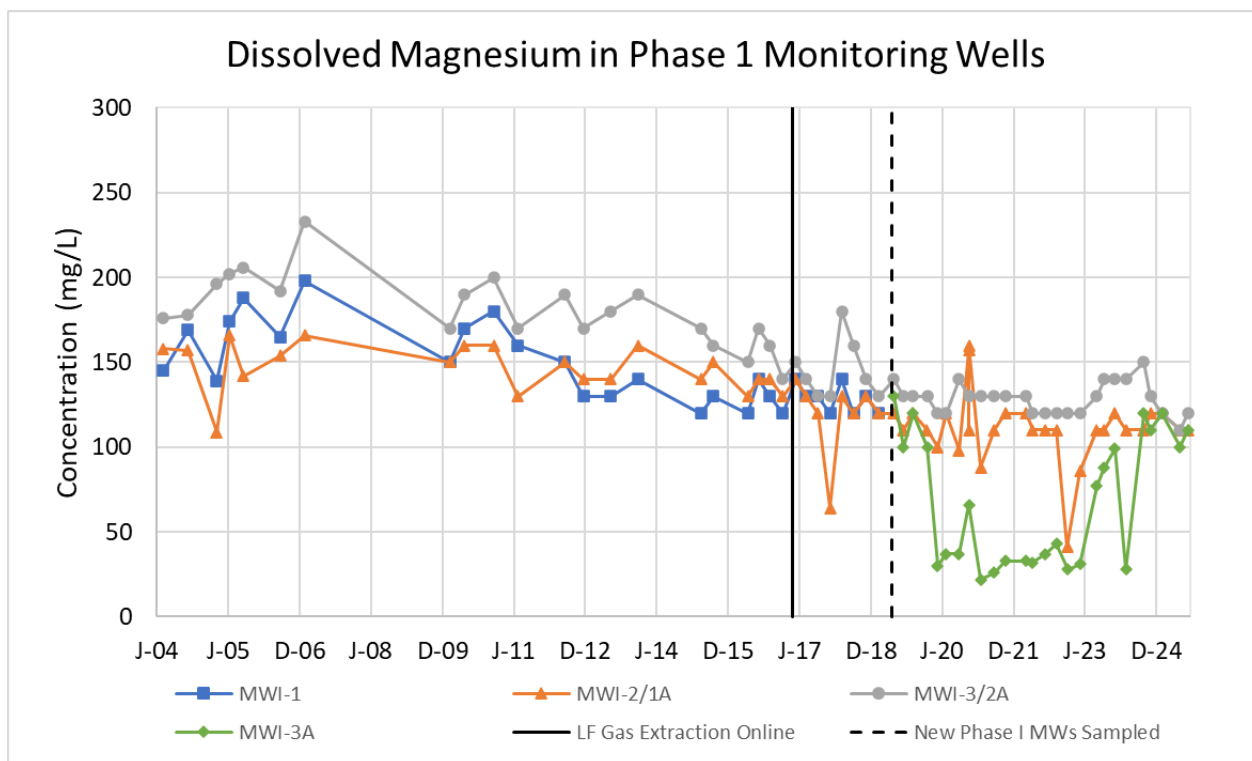
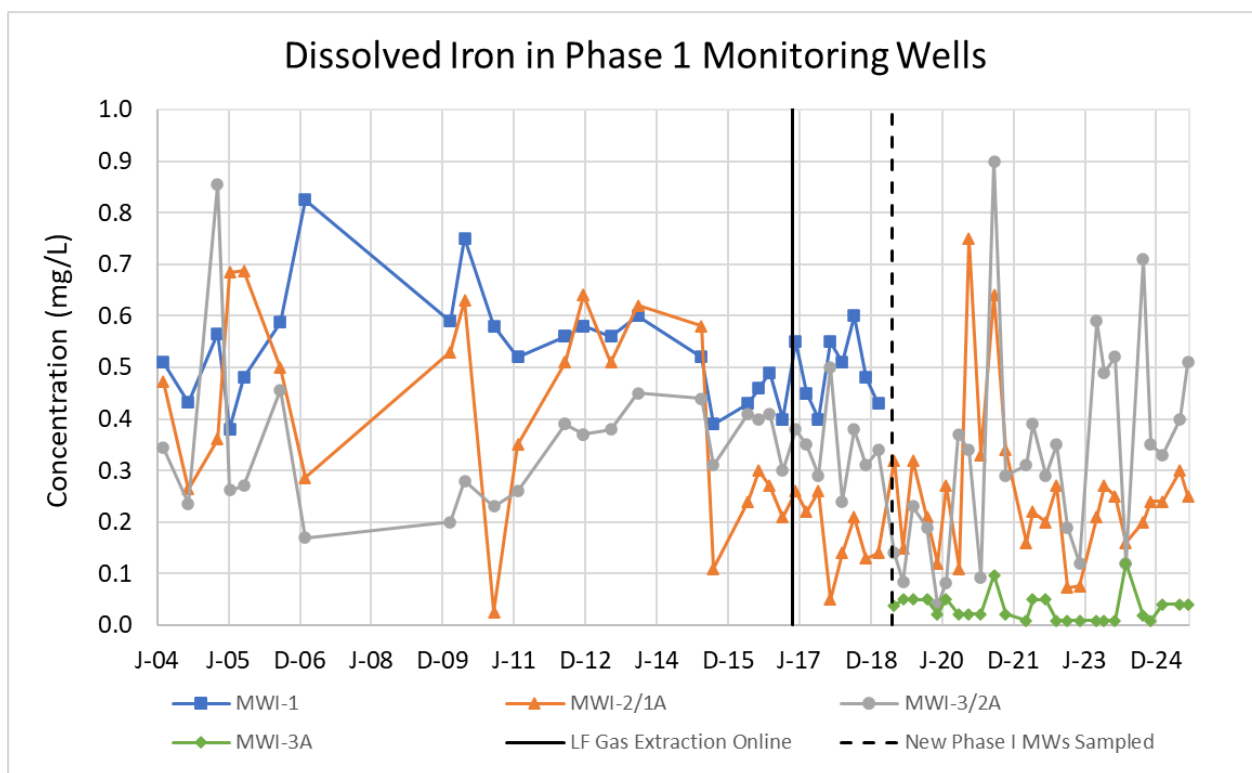
APPENDIX B

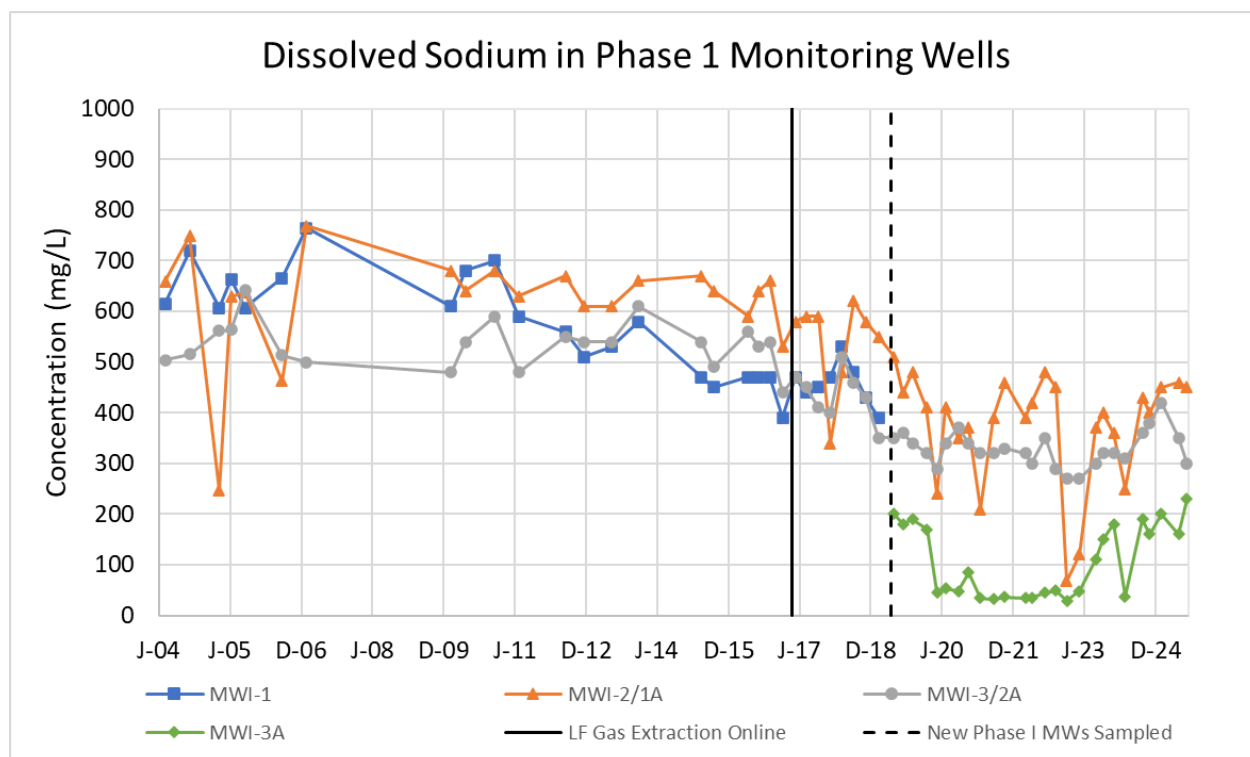
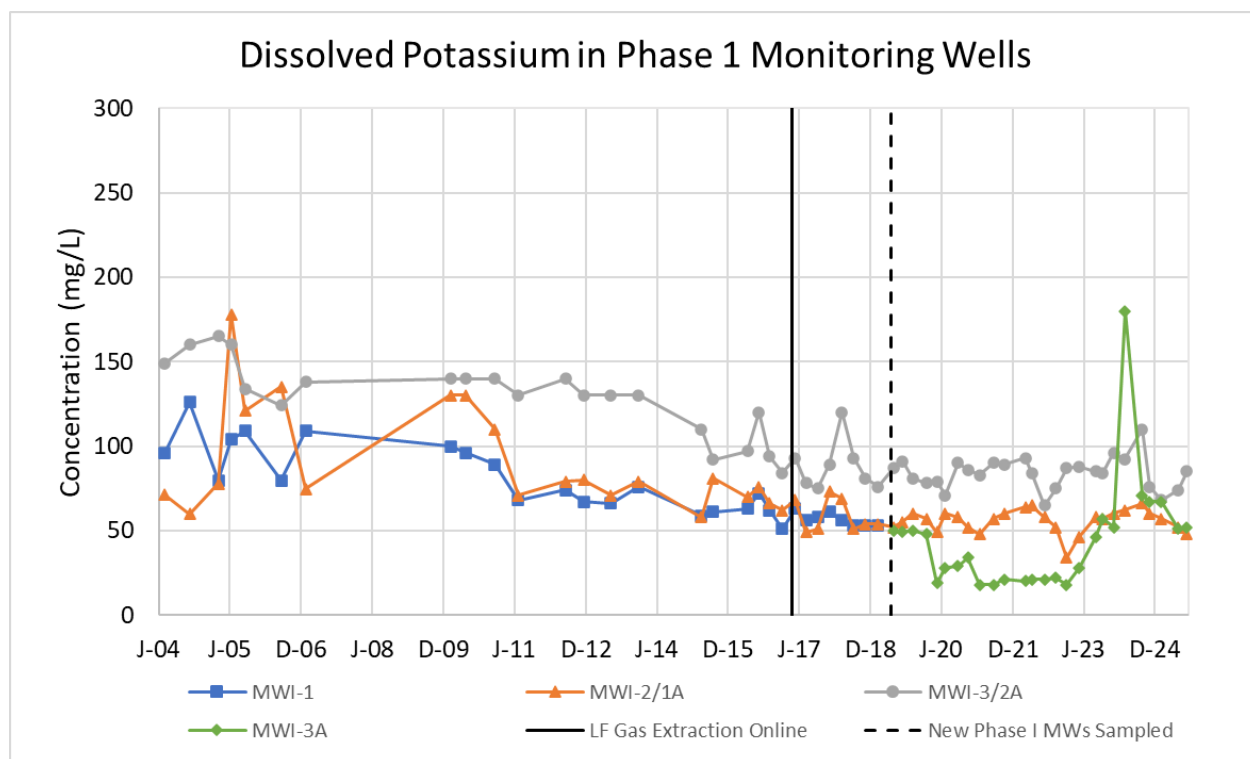
Historical Analytical Data for Phase 1 Groundwater Monitoring Wells

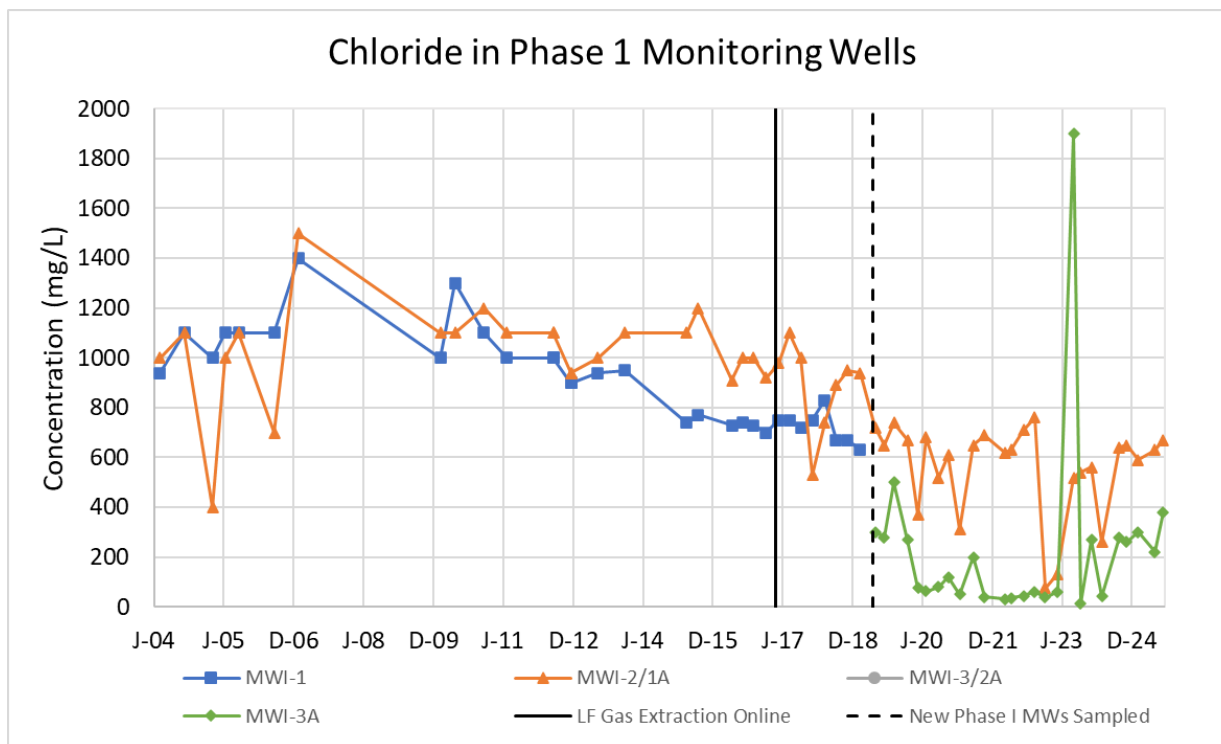
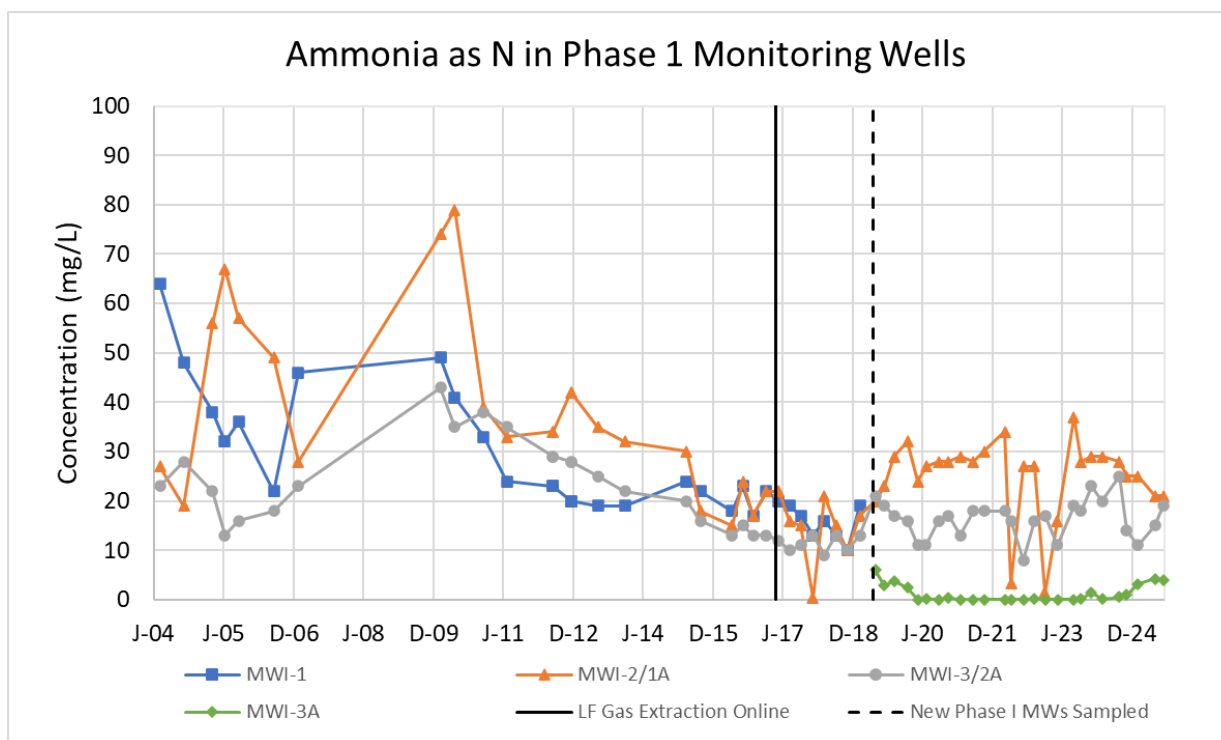
Historical Analytical Data for Phase 1 Groundwater Monitoring Wells

Time Series Graphs of Selected Analytes

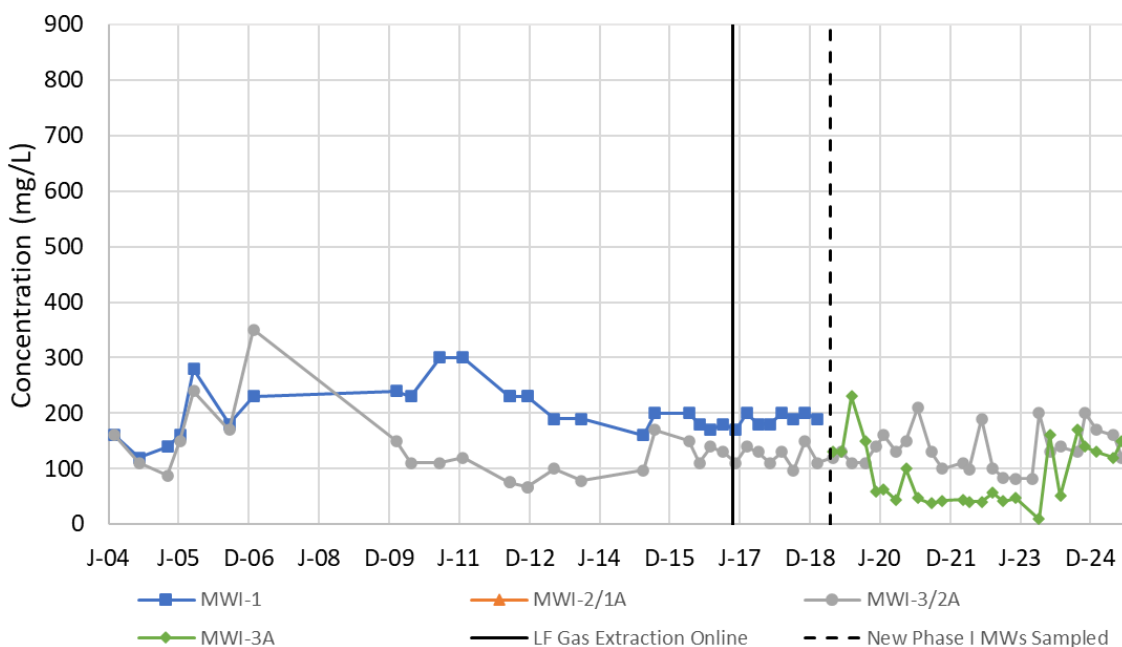




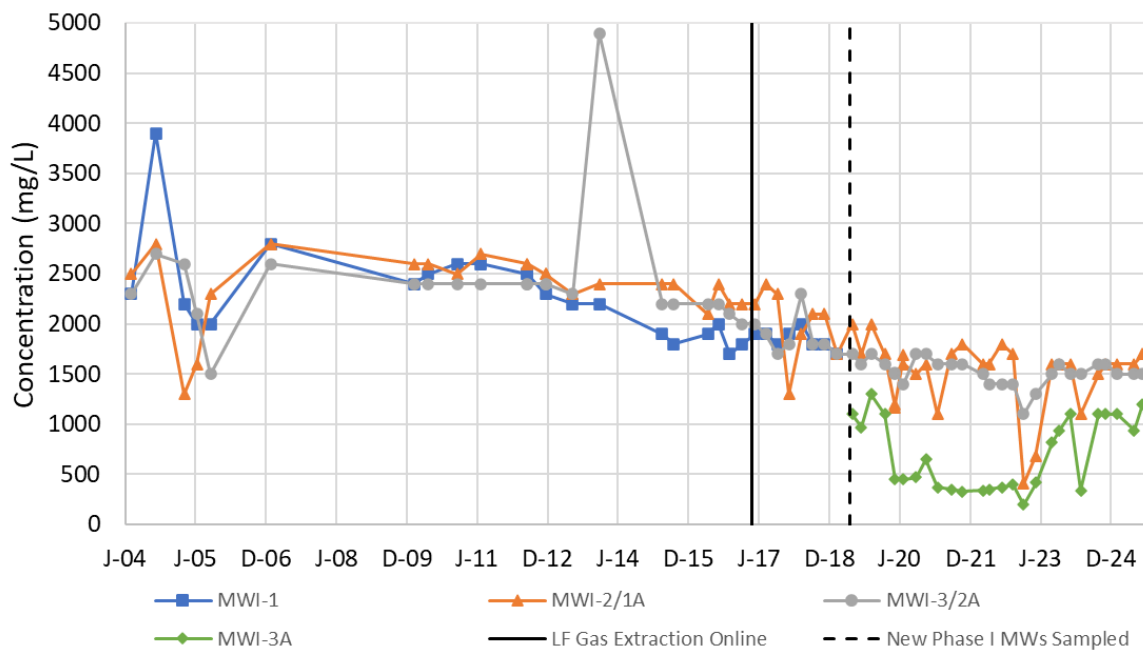


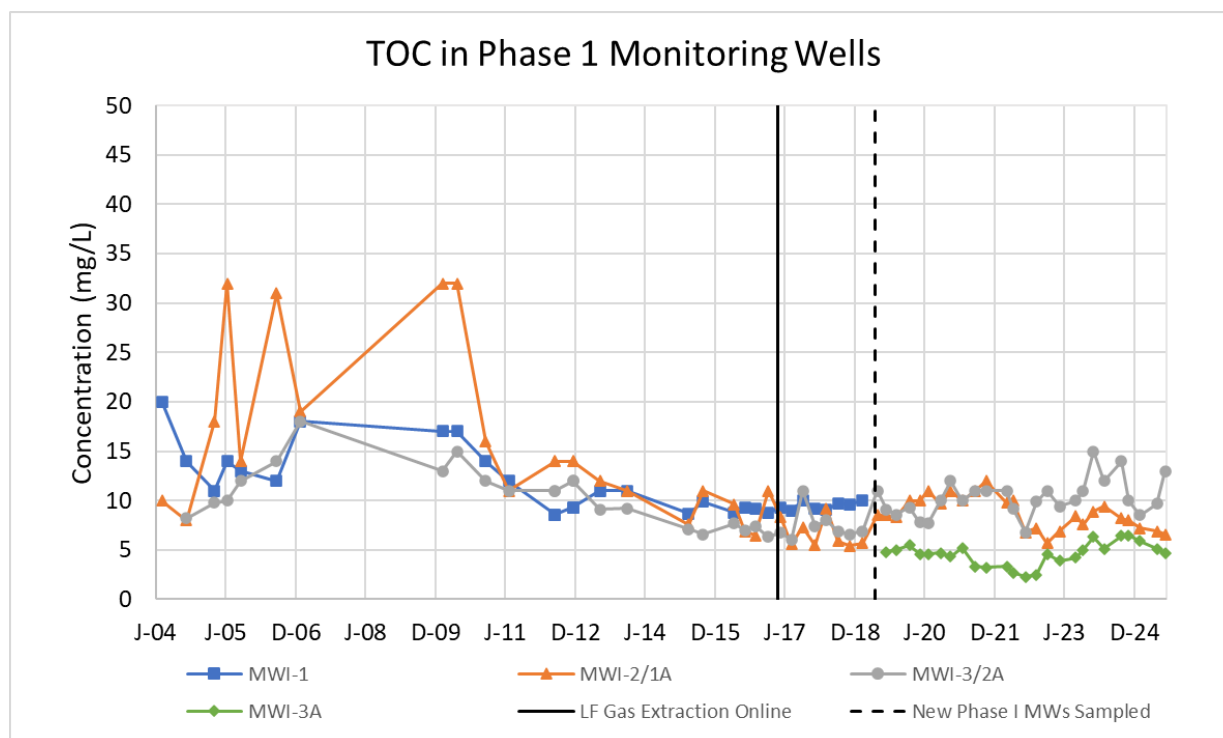


Sulfate in Phase 1 Monitoring Wells



TDS in Phase 1 Monitoring Wells





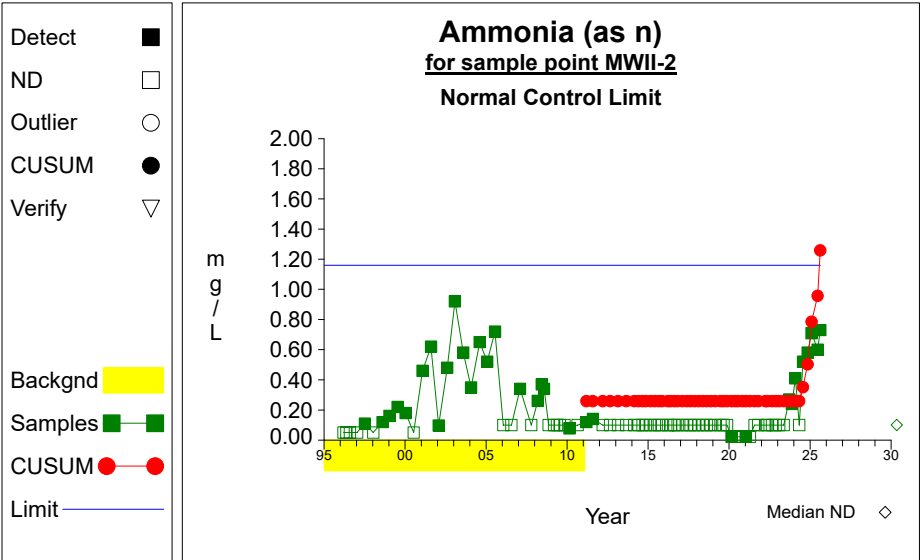
APPENDIX C

Eurofins TestAmerica-Denver Laboratory Reports (on CD)

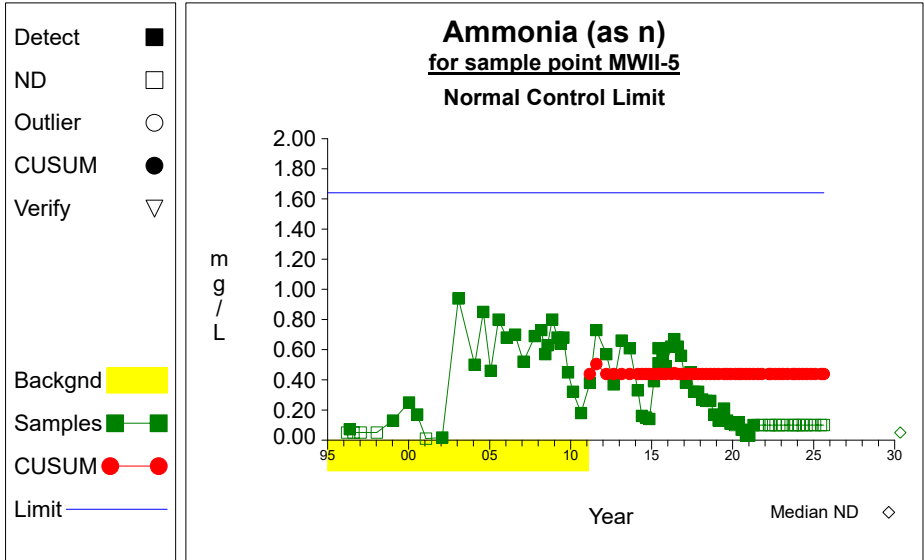
APPENDIX D

Statistical Evaluation of Phase II Data

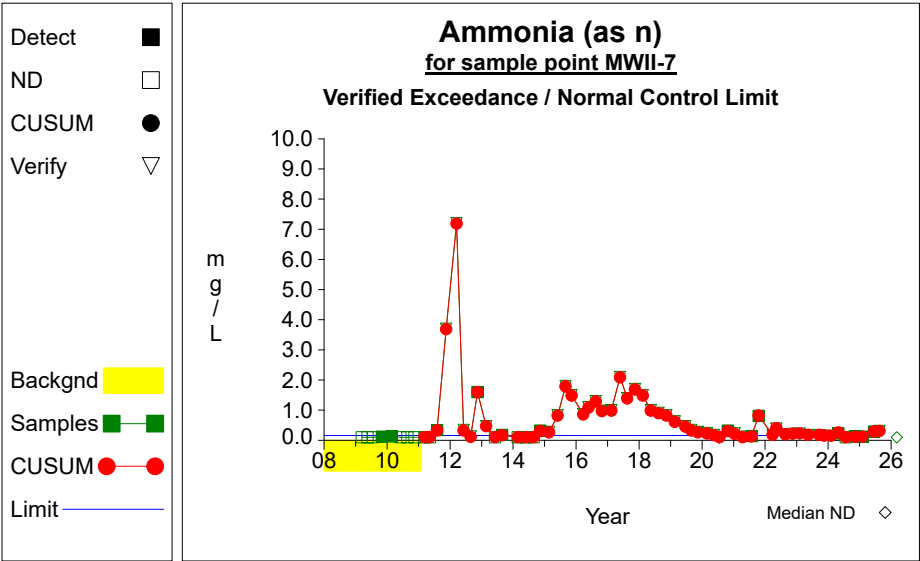
Intra-Well Control Charts / Prediction Limits



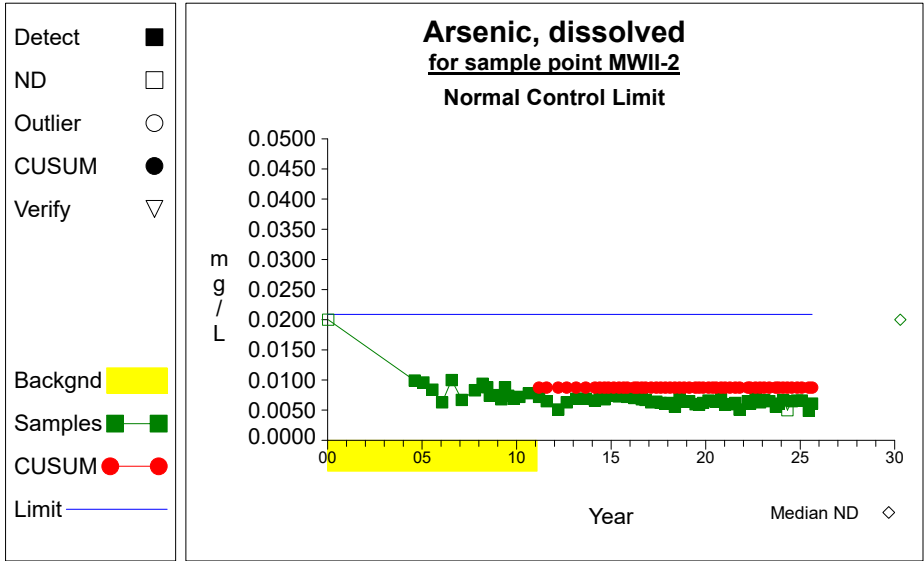
Graph 1



Graph 2

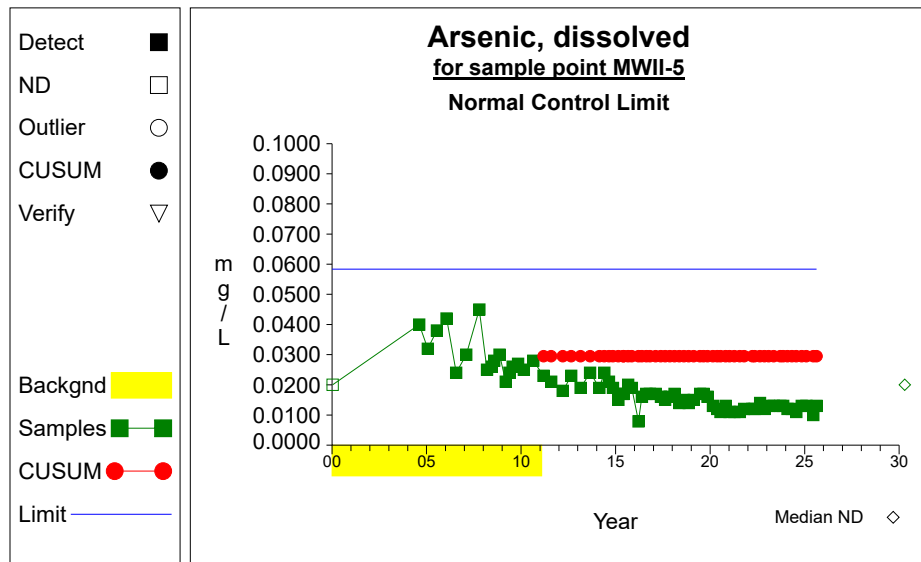


Graph 3

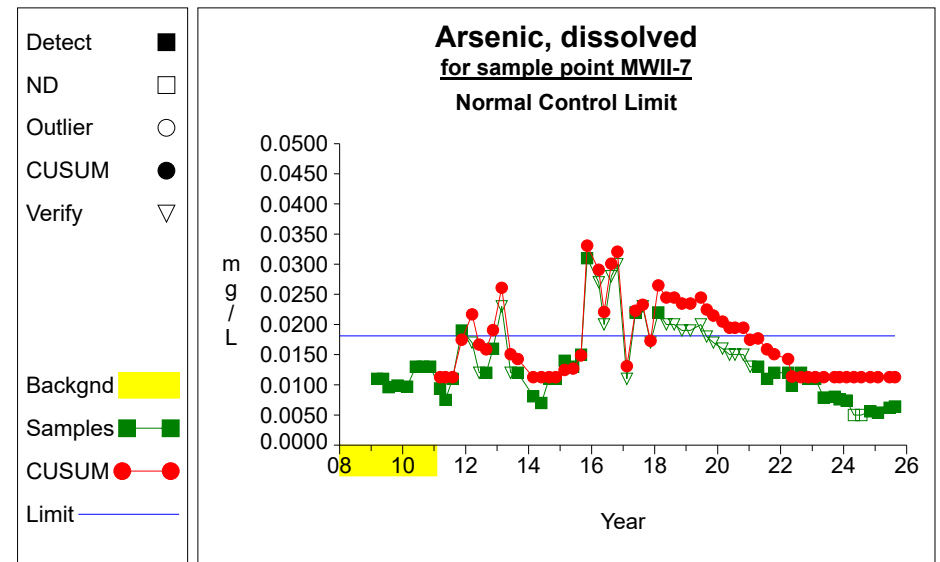


Graph 4

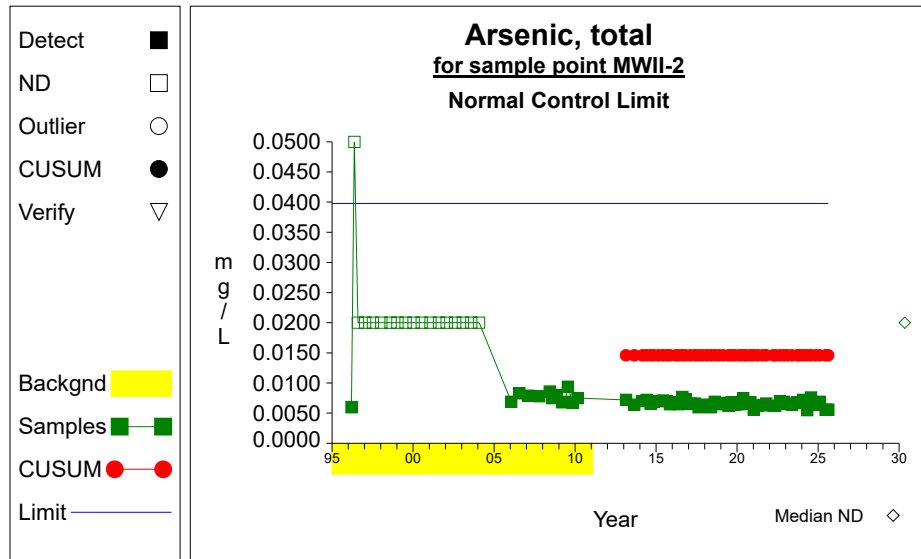
Intra-Well Control Charts / Prediction Limits



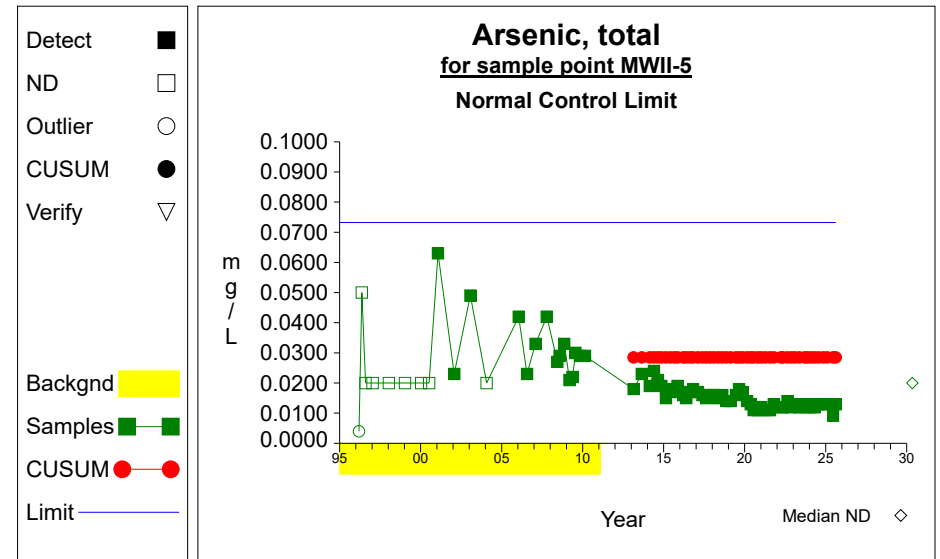
Graph 5



Graph 6

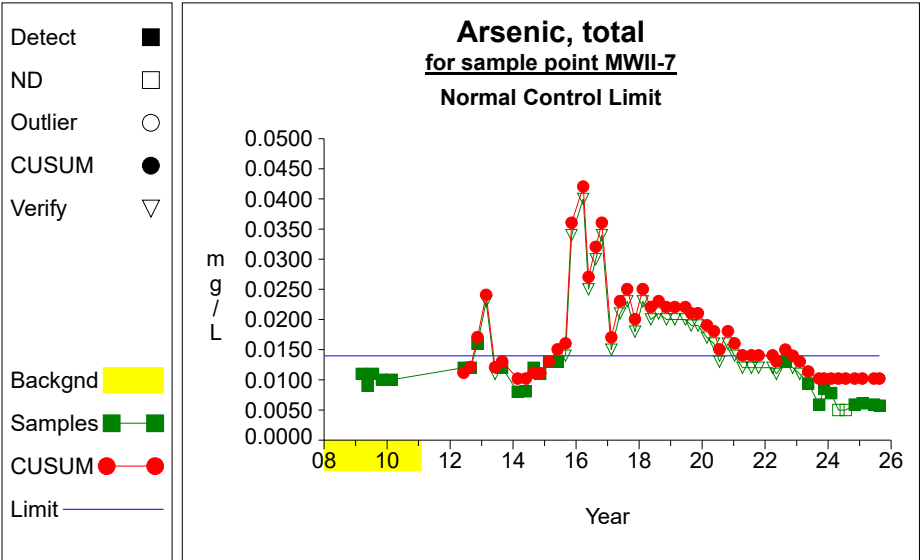


Graph 7

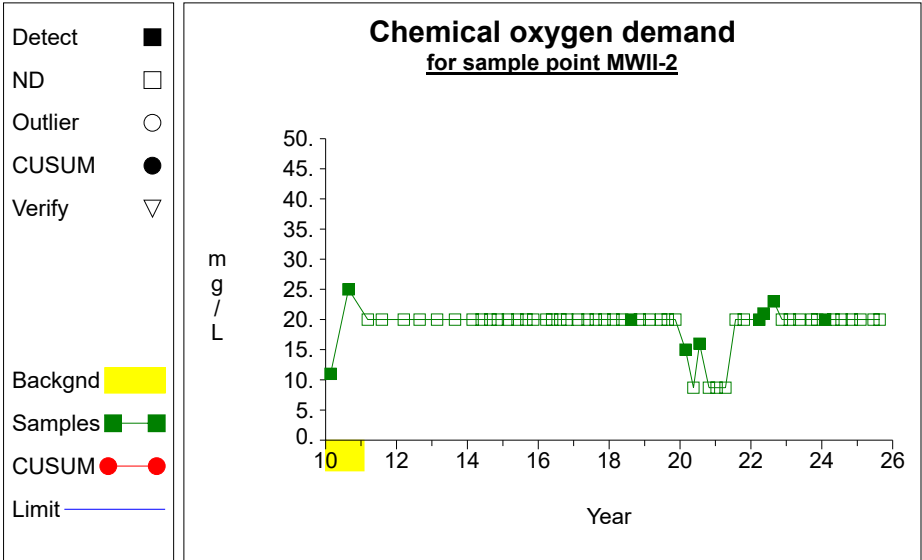


Graph 8

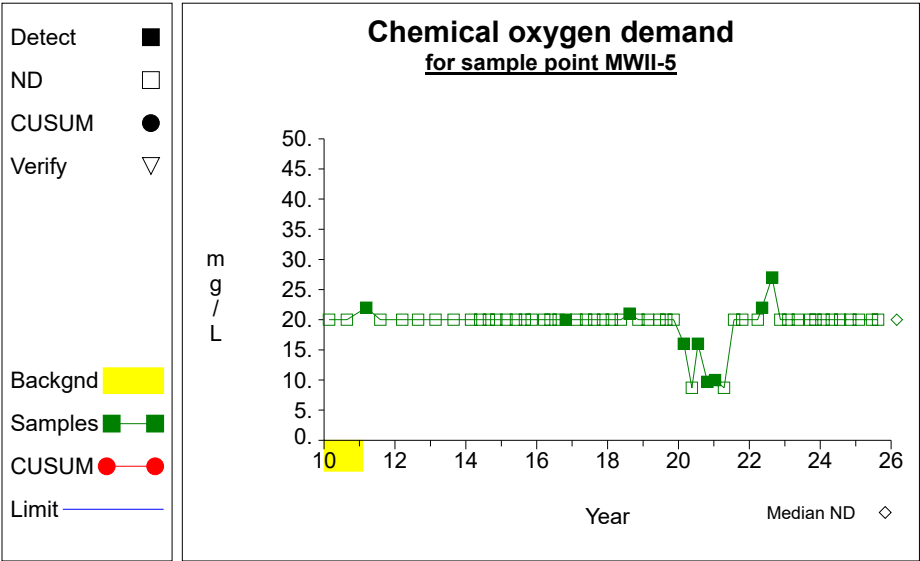
Intra-Well Control Charts / Prediction Limits



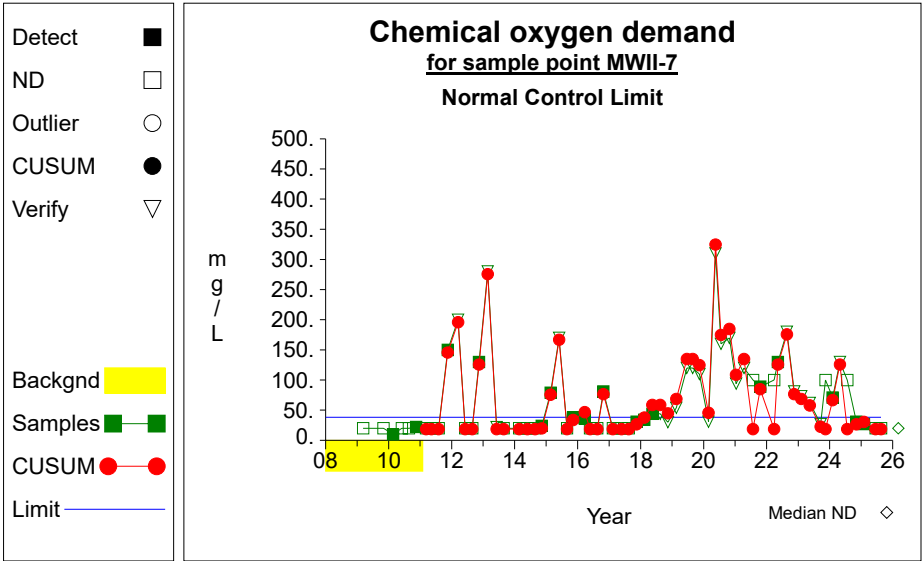
Graph 9



Graph 10

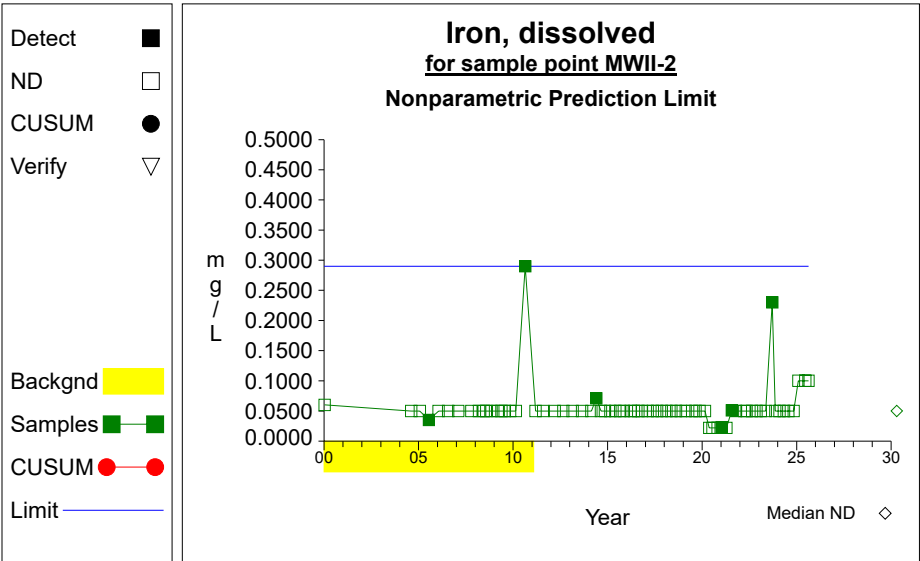


Graph 11

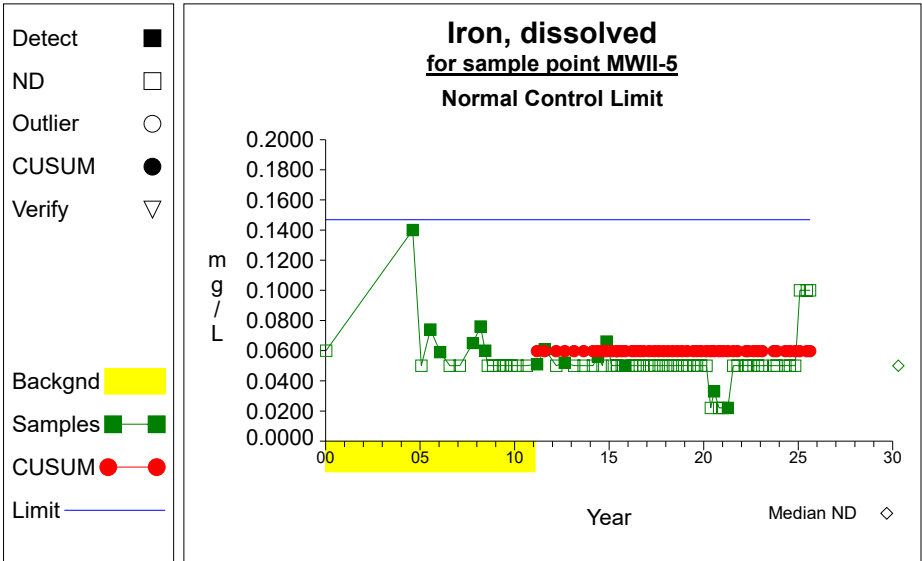


Graph 12

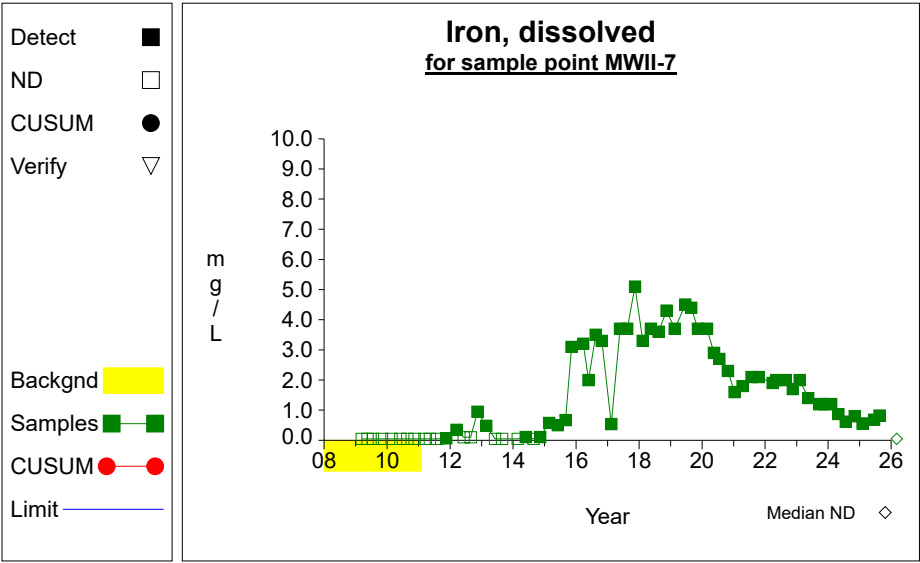
Intra-Well Control Charts / Prediction Limits



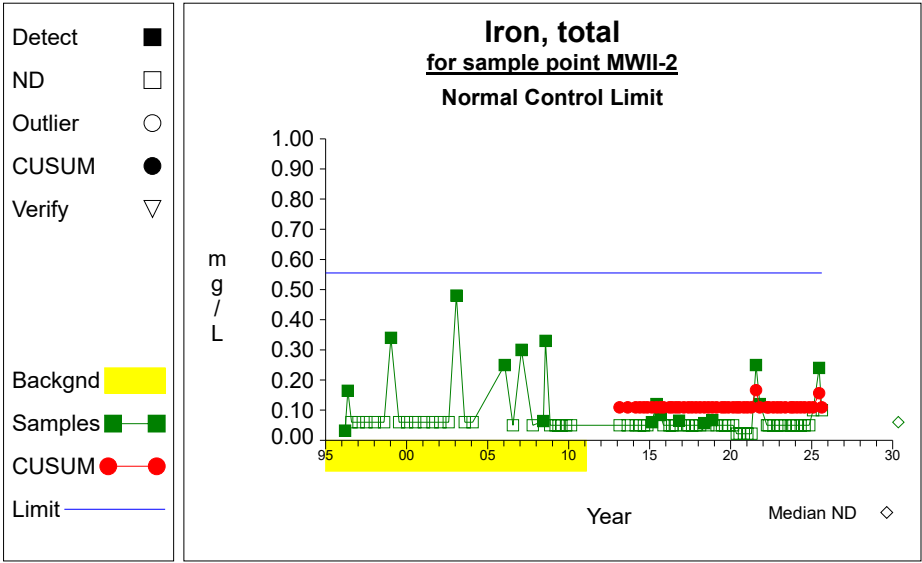
Graph 13



Graph 14

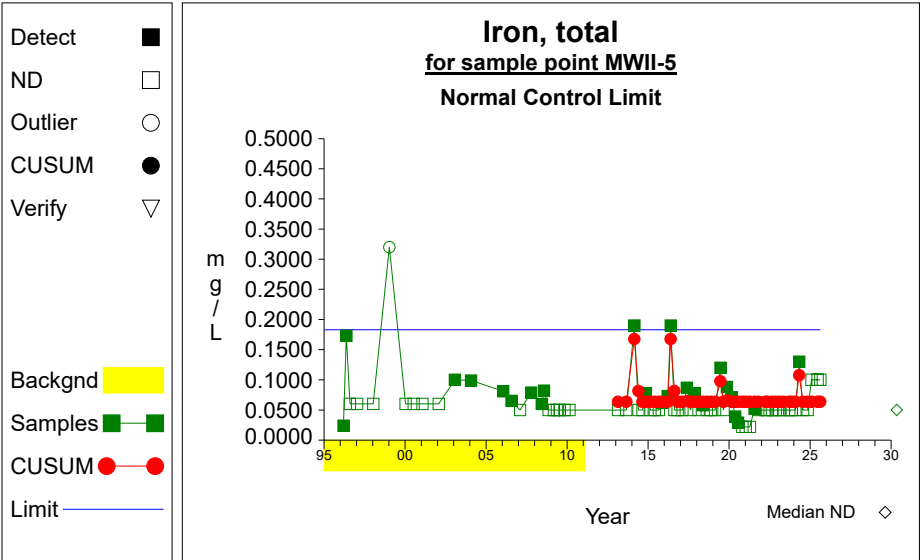


Graph 15

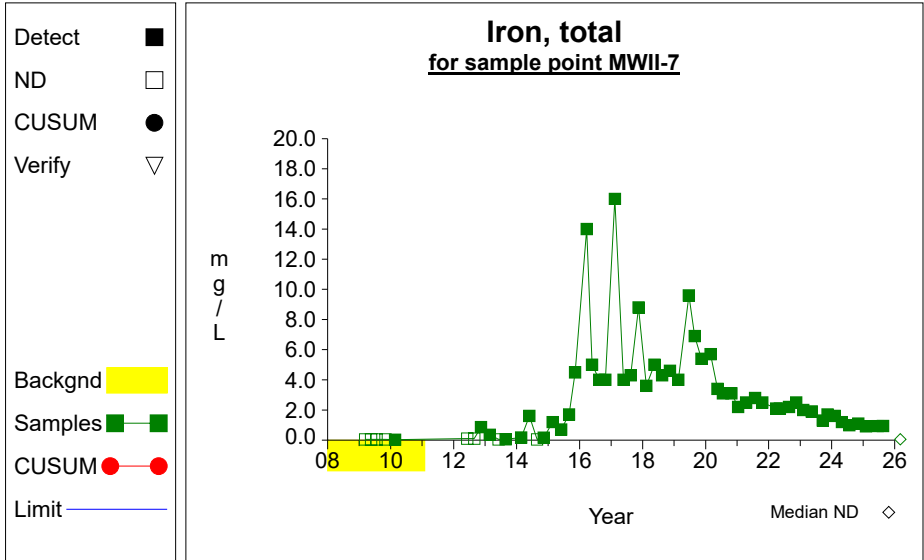


Graph 16

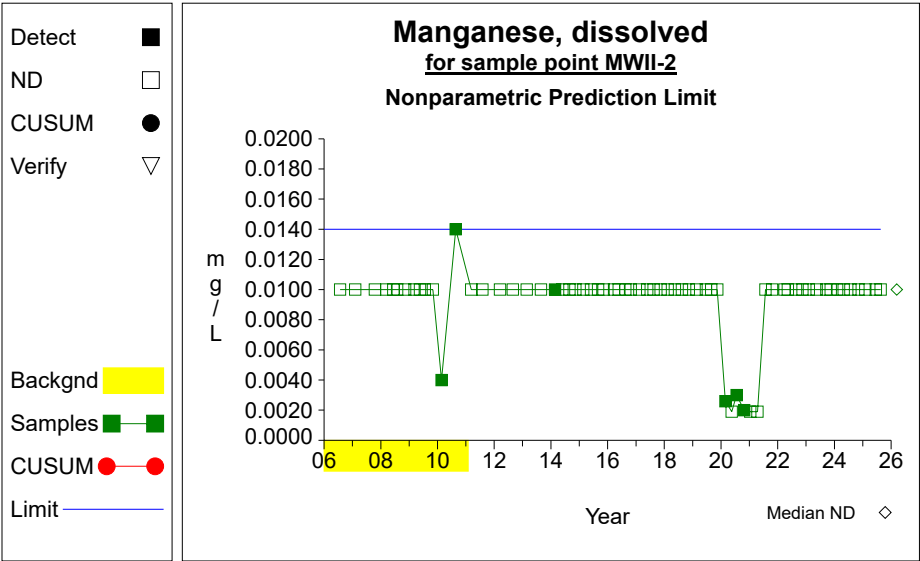
Intra-Well Control Charts / Prediction Limits



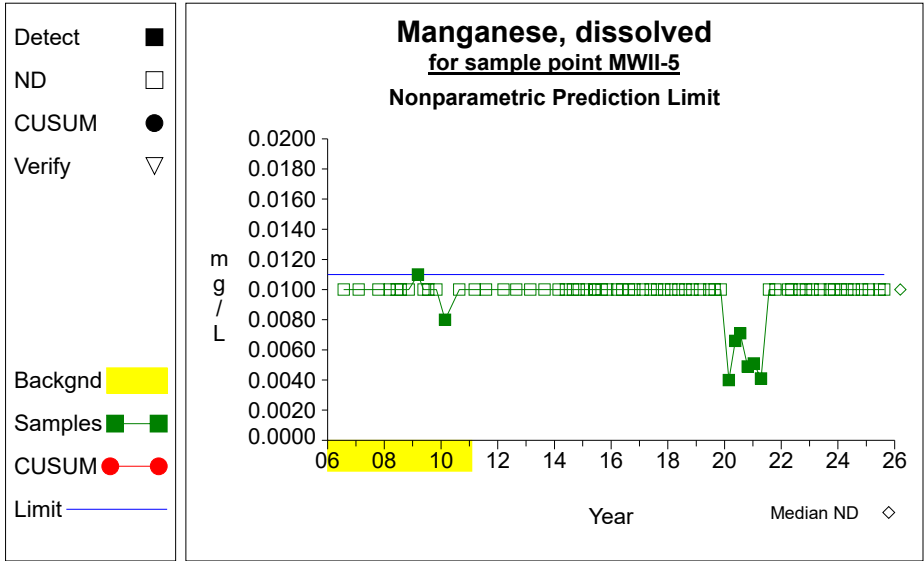
Graph 17



Graph 18

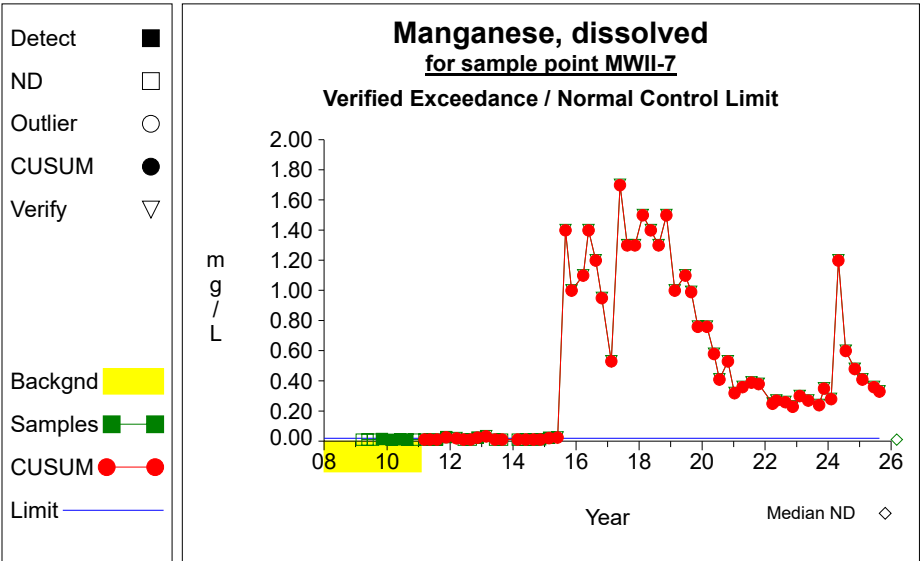


Graph 19

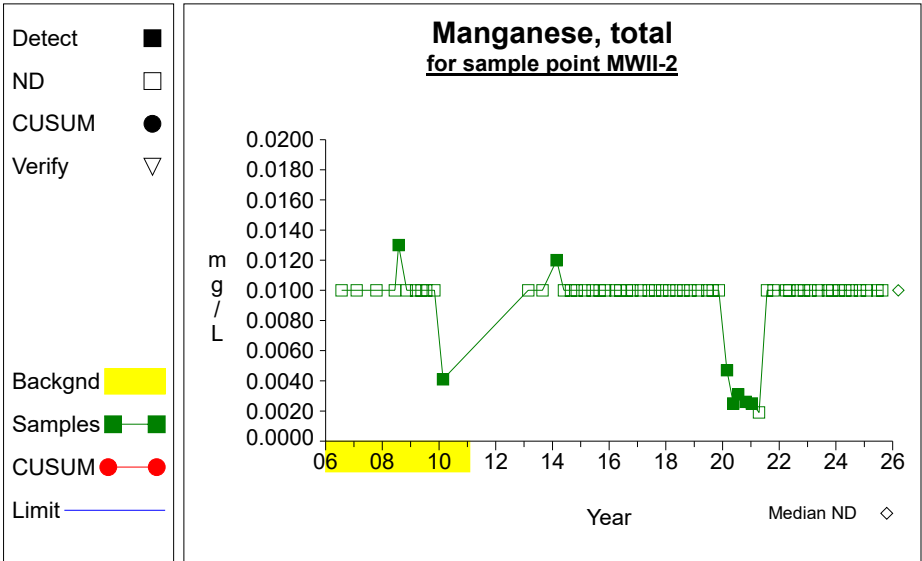


Graph 20

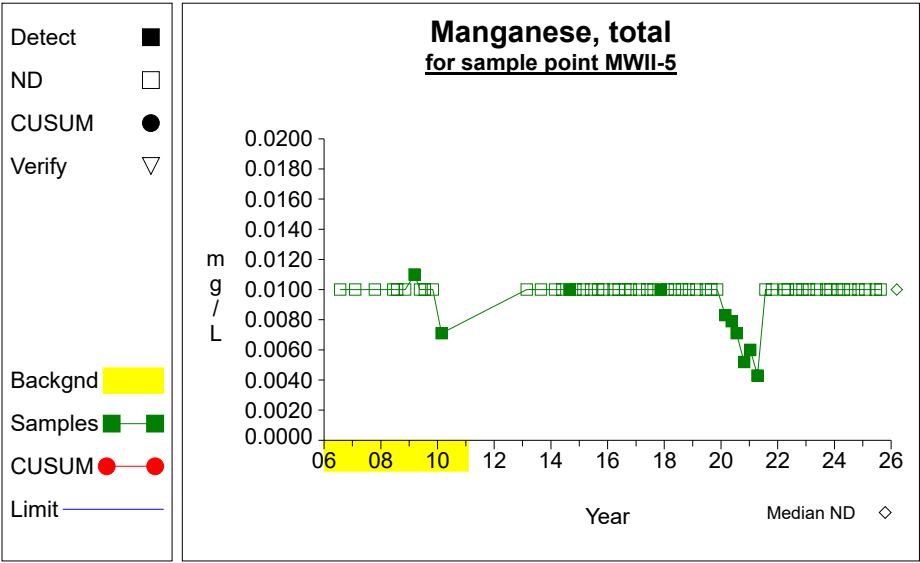
Intra-Well Control Charts / Prediction Limits



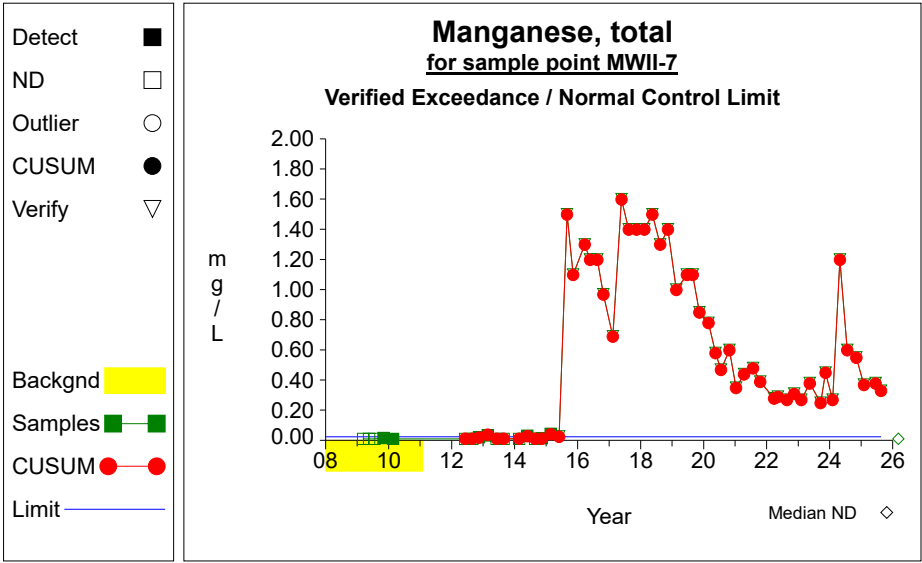
Graph 21



Graph 22

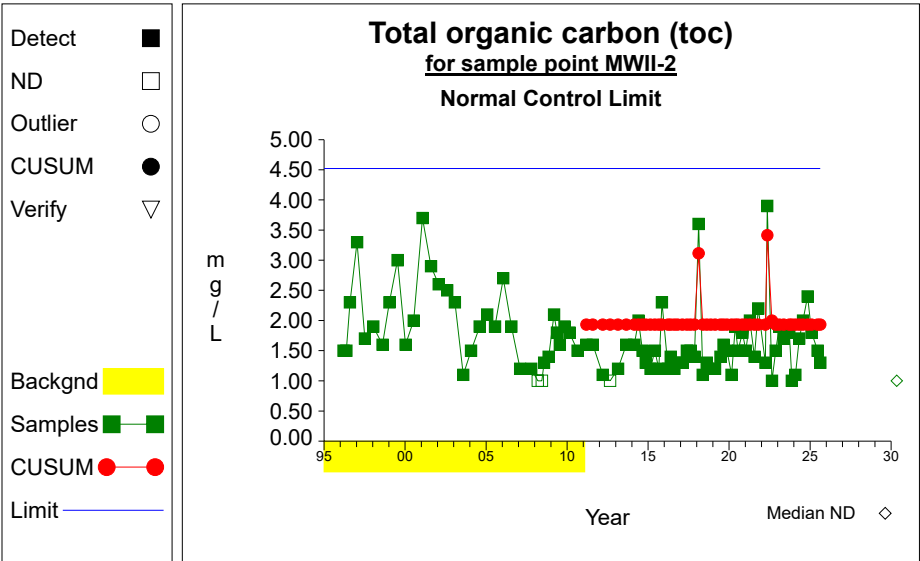


Graph 23

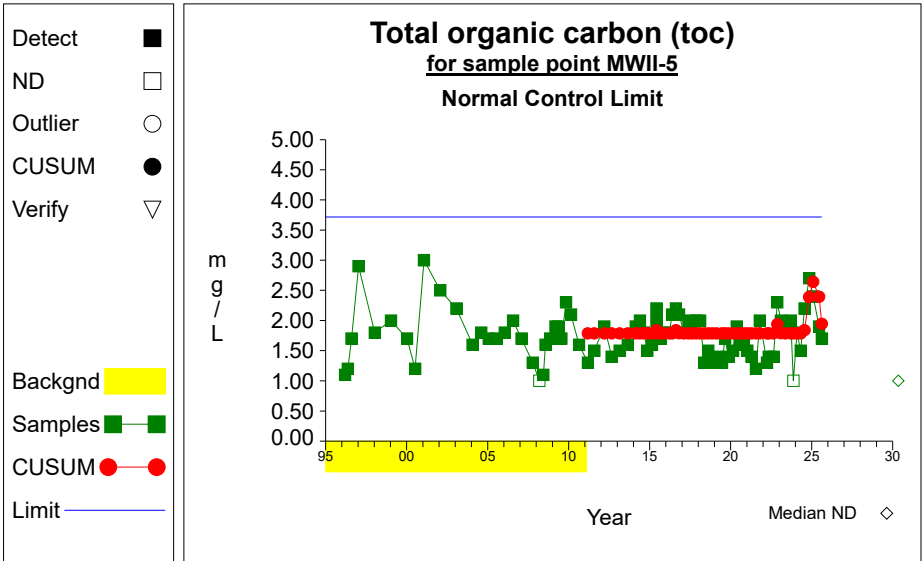


Graph 24

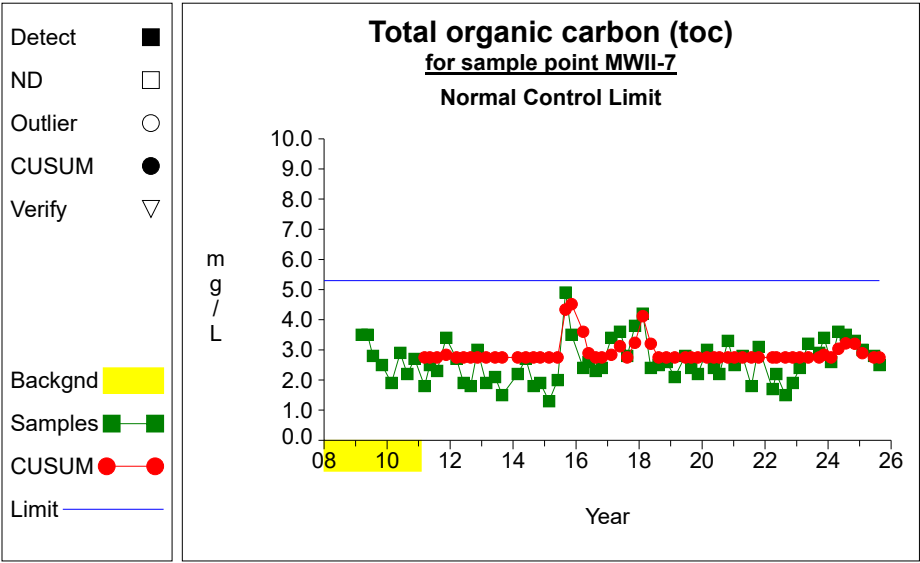
Intra-Well Control Charts / Prediction Limits



Graph 25



Graph 26



Graph 27

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	
Ammonia (as n)	mg/L	MWII-2	35	53	88	0.2593	0.2252	0.6000	0.7300	0.9566	1.2584	1.1600	normal		
Ammonia (as n)	mg/L	MWII-5	29	54	83	0.4383	0.3005	0.1000	0.1000	0.4383	0.4383	1.6404	normal		
Ammonia (as n)	mg/L	MWII-7	8	58	66	0.1063	0.0119	0.2900	0.3100	0.2919	0.3119	0.1597	normal		
Arsenic, dissolved	mg/L	MWII-2	18	53	71	0.0087	0.0030	0.0049	0.0061	0.0087	0.0087	0.0209	normal		
Arsenic, dissolved	mg/L	MWII-5	18	54	72	0.0295	0.0072	0.0100	0.0130	0.0295	0.0295	0.0584	normal		
Arsenic, dissolved	mg/L	MWII-7	8	58	66	0.0113	0.0015	0.0062	0.0064	0.0113	0.0113	0.0181	normal		
Arsenic, total	mg/L	MWII-2	30	49	79	0.0146	0.0063	0.0056	0.0056	0.0146	0.0146	0.0398	normal		
Arsenic, total	mg/L	MWII-5	23	49	73	0.0285	0.0112	0.0092	0.0130	0.0285	0.0285	0.0733	normal		
Arsenic, total	mg/L	MWII-7	5	53	58	0.0102	0.0008	0.0059	0.0057	0.0102	0.0102	0.0140	normal		
Chemical oxygen demand	mg/L	MWII-2	2	53	55										*
Chemical oxygen demand	mg/L	MWII-5	2	53	55										*
Chemical oxygen demand	mg/L	MWII-7	6	58	64	18.6667	4.3205	20.0000	20.0000	18.6667	18.6667	38.1089	normal		
Iron, dissolved	mg/L	MWII-2	18	53	71			0.1000	0.1000			0.2900	nonpar	.99	**
Iron, dissolved	mg/L	MWII-5	18	52	70	0.0597	0.0218	0.1000	0.1000	0.0597	0.0597	0.1469	normal		**
Iron, dissolved	mg/L	MWII-7	8	58	66								nonpar *		**
Iron, total	mg/L	MWII-2	30	49	79	0.1094	0.1114	0.2400	0.1000	0.1564	0.1094	0.5551	normal		
Iron, total	mg/L	MWII-5	23	49	73	0.0636	0.0298	0.1000	0.1000	0.0636	0.0636	0.1830	normal		
Iron, total	mg/L	MWII-7	5	53	58								nonpar *		**
Manganese, dissolved	mg/L	MWII-2	13	53	66			0.0100	0.0100			0.0140	nonpar	.99	**
Manganese, dissolved	mg/L	MWII-5	13	54	67			0.0100	0.0100			0.0110	nonpar	.99	**
Manganese, dissolved	mg/L	MWII-7	8	58	66	0.0107	0.0016	0.3600	0.3300	0.3584	0.3284	0.0180	normal		
Manganese, total	mg/L	MWII-2	11	49	60								nonpar *		**
Manganese, total	mg/L	MWII-5	11	49	60								nonpar *		**
Manganese, total	mg/L	MWII-7	5	53	58	0.0112	0.0027	0.3800	0.3300	0.3774	0.3274	0.0233	normal		
Total organic carbon (toc)	mg/L	MWII-2	35	53	88	1.9314	0.6475	1.5000	1.3000	1.9314	1.9314	4.5215	normal		
Total organic carbon (toc)	mg/L	MWII-5	29	54	83	1.7862	0.4823	1.9000	1.7000	2.3943	1.9464	3.7156	normal		
Total organic carbon (toc)	mg/L	MWII-7	8	58	66	2.7500	0.5657	2.8000	2.5000	2.7500	2.7500	5.2956	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 2

Analytical Data and CUSUM Summary

Constituent	Units	Well	Date	Background	Result		Outlier	CUSUM	Adjusted	
Ammonia (as n)	mg/L	MWII-2	03/12/1996	yes	0.0500	ND			0.1000	***
Ammonia (as n)	mg/L	MWII-2	05/14/1996	yes	0.0500	ND			0.1000	***
Ammonia (as n)	mg/L	MWII-2	08/06/1996	yes	0.0500	ND			0.1000	***
Ammonia (as n)	mg/L	MWII-2	01/14/1997	yes	0.0500	ND			0.1000	***
Ammonia (as n)	mg/L	MWII-2	07/08/1997	yes	0.1100					
Ammonia (as n)	mg/L	MWII-2	01/13/1998	yes	0.0500	ND			0.1000	***
Ammonia (as n)	mg/L	MWII-2	08/10/1998	yes	0.1200					
Ammonia (as n)	mg/L	MWII-2	01/11/1999	yes	0.1600					
Ammonia (as n)	mg/L	MWII-2	07/12/1999	yes	0.2200					
Ammonia (as n)	mg/L	MWII-2	01/10/2000	yes	0.1800					
Ammonia (as n)	mg/L	MWII-2	07/10/2000	yes	0.0500	ND			0.1000	***
Ammonia (as n)	mg/L	MWII-2	01/29/2001	yes	0.4600					
Ammonia (as n)	mg/L	MWII-2	08/06/2001	yes	0.6200					
Ammonia (as n)	mg/L	MWII-2	01/29/2002	yes	0.0970					
Ammonia (as n)	mg/L	MWII-2	08/05/2002	yes	0.4800					
Ammonia (as n)	mg/L	MWII-2	01/28/2003	yes	0.9200					
Ammonia (as n)	mg/L	MWII-2	08/04/2003	yes	0.5800					
Ammonia (as n)	mg/L	MWII-2	01/27/2004	yes	0.3500					
Ammonia (as n)	mg/L	MWII-2	08/09/2004	yes	0.6500					
Ammonia (as n)	mg/L	MWII-2	01/24/2005	yes	0.5200					
Ammonia (as n)	mg/L	MWII-2	07/18/2005	yes	0.7200					
Ammonia (as n)	mg/L	MWII-2	01/23/2006	yes	0.1000	ND				
Ammonia (as n)	mg/L	MWII-2	07/25/2006	yes	0.1000	ND				
Ammonia (as n)	mg/L	MWII-2	02/05/2007	yes	0.3400					
Ammonia (as n)	mg/L	MWII-2	10/16/2007	yes	0.1000	ND				
Ammonia (as n)	mg/L	MWII-2	03/11/2008	yes	0.2600					
Ammonia (as n)	mg/L	MWII-2	06/10/2008	yes	0.3700					
Ammonia (as n)	mg/L	MWII-2	07/29/2008	yes	0.3400					
Ammonia (as n)	mg/L	MWII-2	11/10/2008	yes	0.1000	ND				
Ammonia (as n)	mg/L	MWII-2	03/10/2009	yes	0.1000	ND				
Ammonia (as n)	mg/L	MWII-2	05/18/2009	yes	0.1000	ND				
Ammonia (as n)	mg/L	MWII-2	07/20/2009	yes	0.1000	ND				
Ammonia (as n)	mg/L	MWII-2	11/02/2009	yes	0.1000	ND				
Ammonia (as n)	mg/L	MWII-2	02/22/2010	yes	0.0780					
Ammonia (as n)	mg/L	MWII-2	08/23/2010	yes	0.1000	ND				
Ammonia (as n)	mg/L	MWII-2	03/08/2011		0.1200			0.2593		
Ammonia (as n)	mg/L	MWII-2	08/02/2011		0.1400			0.2593		
Ammonia (as n)	mg/L	MWII-2	03/14/2012		0.1000	ND		0.2593		
Ammonia (as n)	mg/L	MWII-2	08/27/2012		0.1000	ND		0.2593		
Ammonia (as n)	mg/L	MWII-2	02/24/2013		0.1000	ND		0.2593		
Ammonia (as n)	mg/L	MWII-2	08/26/2013		0.1000	ND		0.2593		
Ammonia (as n)	mg/L	MWII-2	02/24/2014		0.1000	ND		0.2593		

* - 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	
Ammonia (as n)	mg/L	MWII-2	05/27/2014		0.1000	ND		0.2593		
Ammonia (as n)	mg/L	MWII-2	08/26/2014		0.1000	ND		0.2593		
Ammonia (as n)	mg/L	MWII-2	11/11/2014		0.1000	ND		0.2593		
Ammonia (as n)	mg/L	MWII-2	02/23/2015		0.1000	ND		0.2593		
Ammonia (as n)	mg/L	MWII-2	05/31/2015		0.1000	ND		0.2593		
Ammonia (as n)	mg/L	MWII-2	08/31/2015		0.1000	ND		0.2593		
Ammonia (as n)	mg/L	MWII-2	11/09/2015		0.1000	ND		0.2593		
Ammonia (as n)	mg/L	MWII-2	03/23/2016		0.1000	ND		0.2593		
Ammonia (as n)	mg/L	MWII-2	05/23/2016		0.1000	ND		0.2593		
Ammonia (as n)	mg/L	MWII-2	08/15/2016		0.1000	ND		0.2593		
Ammonia (as n)	mg/L	MWII-2	10/26/2016		0.1000	ND		0.2593		
Ammonia (as n)	mg/L	MWII-2	02/14/2017		0.1000	ND		0.2593		
Ammonia (as n)	mg/L	MWII-2	05/23/2017		0.1000	ND		0.2593		
Ammonia (as n)	mg/L	MWII-2	08/15/2017		0.1000	ND		0.2593		
Ammonia (as n)	mg/L	MWII-2	11/14/2017		0.1000	ND		0.2593		
Ammonia (as n)	mg/L	MWII-2	02/13/2018		0.1000	ND		0.2593		
Ammonia (as n)	mg/L	MWII-2	05/15/2018		0.1000	ND		0.2593		
Ammonia (as n)	mg/L	MWII-2	08/14/2018		0.1000	ND		0.2593		
Ammonia (as n)	mg/L	MWII-2	11/13/2018		0.1000	ND		0.2593		
Ammonia (as n)	mg/L	MWII-2	02/19/2019		0.1000	ND		0.2593		
Ammonia (as n)	mg/L	MWII-2	06/19/2019		0.1000	ND		0.2593		
Ammonia (as n)	mg/L	MWII-2	08/27/2019		0.1000	ND		0.2593		
Ammonia (as n)	mg/L	MWII-2	11/13/2019		0.1000	ND		0.2593		
Ammonia (as n)	mg/L	MWII-2	02/27/2020		0.0230			0.2593		
Ammonia (as n)	mg/L	MWII-2	05/17/2020		0.0220	ND		0.2593		
Ammonia (as n)	mg/L	MWII-2	07/19/2020		0.0220	ND		0.2593		
Ammonia (as n)	mg/L	MWII-2	10/26/2020		0.0220	ND		0.2593		
Ammonia (as n)	mg/L	MWII-2	01/12/2021		0.0260			0.2593		
Ammonia (as n)	mg/L	MWII-2	04/13/2021		0.0220	ND		0.2593		
Ammonia (as n)	mg/L	MWII-2	07/26/2021		0.1000	ND		0.2593		
Ammonia (as n)	mg/L	MWII-2	10/19/2021		0.1000	ND		0.2593		
Ammonia (as n)	mg/L	MWII-2	03/27/2022		0.1000	ND		0.2593		
Ammonia (as n)	mg/L	MWII-2	05/09/2022		0.1000	ND		0.2593		
Ammonia (as n)	mg/L	MWII-2	08/23/2022		0.1000	ND		0.2593		
Ammonia (as n)	mg/L	MWII-2	11/16/2022		0.1000	ND		0.2593		
Ammonia (as n)	mg/L	MWII-2	02/06/2023		0.1000	ND		0.2593		
Ammonia (as n)	mg/L	MWII-2	05/14/2023		0.1000	ND		0.2593		
Ammonia (as n)	mg/L	MWII-2	09/18/2023		0.2700			0.2593		
Ammonia (as n)	mg/L	MWII-2	11/14/2023		0.2400			0.2593		
Ammonia (as n)	mg/L	MWII-2	02/04/2024		0.4100			0.2593		
Ammonia (as n)	mg/L	MWII-2	04/29/2024		0.1000	ND		0.2593		
Ammonia (as n)	mg/L	MWII-2	07/23/2024		0.5200			0.3511		

* - 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	
Ammonia (as n)	mg/L	MWII-2	11/05/2024		0.5800			0.5029		
Ammonia (as n)	mg/L	MWII-2	02/02/2025		0.7100			0.7848		
Ammonia (as n)	mg/L	MWII-2	06/16/2025		0.6000			0.9566		
Ammonia (as n)	mg/L	MWII-2	08/18/2025		0.7300			1.2584		**
Ammonia (as n)	mg/L	MWII-5	03/12/1996	yes	0.0500	ND				
Ammonia (as n)	mg/L	MWII-5	05/14/1996	yes	0.0730					
Ammonia (as n)	mg/L	MWII-5	08/06/1996	yes	0.0500	ND				
Ammonia (as n)	mg/L	MWII-5	01/14/1997	yes	0.0500	ND				
Ammonia (as n)	mg/L	MWII-5	01/13/1998	yes	0.0500	ND				
Ammonia (as n)	mg/L	MWII-5	01/11/1999	yes	0.1300					
Ammonia (as n)	mg/L	MWII-5	01/10/2000	yes	0.2500					
Ammonia (as n)	mg/L	MWII-5	07/10/2000	yes	0.1700					
Ammonia (as n)	mg/L	MWII-5	01/29/2001	yes	0.0100	ND			0.0500	***
Ammonia (as n)	mg/L	MWII-5	01/29/2002	yes	0.0170					
Ammonia (as n)	mg/L	MWII-5	01/28/2003	yes	0.9400					
Ammonia (as n)	mg/L	MWII-5	01/27/2004	yes	0.5000					
Ammonia (as n)	mg/L	MWII-5	08/09/2004	yes	0.8500					
Ammonia (as n)	mg/L	MWII-5	01/24/2005	yes	0.4600					
Ammonia (as n)	mg/L	MWII-5	07/18/2005	yes	0.8000					
Ammonia (as n)	mg/L	MWII-5	01/23/2006	yes	0.6800					
Ammonia (as n)	mg/L	MWII-5	07/26/2006	yes	0.7000					
Ammonia (as n)	mg/L	MWII-5	02/05/2007	yes	0.5200					
Ammonia (as n)	mg/L	MWII-5	10/16/2007	yes	0.6900					
Ammonia (as n)	mg/L	MWII-5	03/11/2008	yes	0.7300					
Ammonia (as n)	mg/L	MWII-5	06/10/2008	yes	0.5700					
Ammonia (as n)	mg/L	MWII-5	07/29/2008	yes	0.6300					
Ammonia (as n)	mg/L	MWII-5	11/10/2008	yes	0.8000					
Ammonia (as n)	mg/L	MWII-5	03/09/2009	yes	0.6800					
Ammonia (as n)	mg/L	MWII-5	05/18/2009	yes	0.6400					
Ammonia (as n)	mg/L	MWII-5	07/20/2009	yes	0.6800					
Ammonia (as n)	mg/L	MWII-5	11/02/2009	yes	0.4500					
Ammonia (as n)	mg/L	MWII-5	02/22/2010	yes	0.3200					
Ammonia (as n)	mg/L	MWII-5	08/23/2010	yes	0.1800					
Ammonia (as n)	mg/L	MWII-5	03/08/2011		0.3800			0.4383		
Ammonia (as n)	mg/L	MWII-5	08/02/2011		0.7300			0.5046		
Ammonia (as n)	mg/L	MWII-5	03/14/2012		0.5700			0.4383		
Ammonia (as n)	mg/L	MWII-5	08/27/2012		0.3700			0.4383		
Ammonia (as n)	mg/L	MWII-5	02/24/2013		0.6600			0.4383		
Ammonia (as n)	mg/L	MWII-5	08/26/2013		0.6100			0.4383		
Ammonia (as n)	mg/L	MWII-5	02/24/2014		0.3300			0.4383		
Ammonia (as n)	mg/L	MWII-5	05/27/2014		0.1600			0.4383		
Ammonia (as n)	mg/L	MWII-5	08/26/2014		0.1500			0.4383		

* - 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	
Ammonia (as n)	mg/L	MWII-5	11/11/2014		0.1400			0.4383		
Ammonia (as n)	mg/L	MWII-5	02/23/2015		0.3900			0.4383		
Ammonia (as n)	mg/L	MWII-5	05/31/2015		0.5100			0.4383		
Ammonia (as n)	mg/L	MWII-5	06/01/2015		0.6100			0.4383		
Ammonia (as n)	mg/L	MWII-5	08/31/2015		0.5500			0.4383		
Ammonia (as n)	mg/L	MWII-5	11/09/2015		0.4900			0.4383		
Ammonia (as n)	mg/L	MWII-5	03/17/2016		0.6200			0.4383		
Ammonia (as n)	mg/L	MWII-5	05/23/2016		0.6700			0.4446		
Ammonia (as n)	mg/L	MWII-5	08/15/2016		0.6200			0.4383		
Ammonia (as n)	mg/L	MWII-5	10/26/2016		0.5600			0.4383		
Ammonia (as n)	mg/L	MWII-5	02/14/2017		0.3800			0.4383		
Ammonia (as n)	mg/L	MWII-5	05/23/2017		0.4500			0.4383		
Ammonia (as n)	mg/L	MWII-5	08/15/2017		0.3200			0.4383		
Ammonia (as n)	mg/L	MWII-5	11/14/2017		0.3200			0.4383		
Ammonia (as n)	mg/L	MWII-5	02/13/2018		0.2700			0.4383		
Ammonia (as n)	mg/L	MWII-5	05/15/2018		0.2600			0.4383		
Ammonia (as n)	mg/L	MWII-5	08/14/2018		0.2600			0.4383		
Ammonia (as n)	mg/L	MWII-5	11/13/2018		0.1700			0.4383		
Ammonia (as n)	mg/L	MWII-5	02/19/2019		0.1300			0.4383		
Ammonia (as n)	mg/L	MWII-5	06/19/2019		0.2100			0.4383		
Ammonia (as n)	mg/L	MWII-5	08/27/2019		0.1300			0.4383		
Ammonia (as n)	mg/L	MWII-5	11/12/2019		0.1100			0.4383		
Ammonia (as n)	mg/L	MWII-5	02/26/2020		0.1000	ND		0.4383		
Ammonia (as n)	mg/L	MWII-5	05/17/2020		0.1200			0.4383		
Ammonia (as n)	mg/L	MWII-5	07/19/2020		0.0690			0.4383		
Ammonia (as n)	mg/L	MWII-5	10/26/2020		0.0300			0.4383		
Ammonia (as n)	mg/L	MWII-5	01/12/2021		0.0300			0.4383		
Ammonia (as n)	mg/L	MWII-5	04/13/2021		0.1000			0.4383		
Ammonia (as n)	mg/L	MWII-5	07/26/2021		0.1000	ND		0.4383		
Ammonia (as n)	mg/L	MWII-5	10/18/2021		0.1000	ND		0.4383		
Ammonia (as n)	mg/L	MWII-5	03/27/2022		0.1000	ND		0.4383		
Ammonia (as n)	mg/L	MWII-5	05/09/2022		0.1000	ND		0.4383		
Ammonia (as n)	mg/L	MWII-5	08/23/2022		0.1000	ND		0.4383		
Ammonia (as n)	mg/L	MWII-5	11/16/2022		0.1000	ND		0.4383		
Ammonia (as n)	mg/L	MWII-5	02/07/2023		0.1000	ND		0.4383		
Ammonia (as n)	mg/L	MWII-5	05/14/2023		0.1000	ND		0.4383		
Ammonia (as n)	mg/L	MWII-5	09/18/2023		0.1000	ND		0.4383		
Ammonia (as n)	mg/L	MWII-5	11/13/2023		0.1000	ND		0.4383		
Ammonia (as n)	mg/L	MWII-5	02/04/2024		0.1000	ND		0.4383		
Ammonia (as n)	mg/L	MWII-5	04/29/2024		0.1000	ND		0.4383		
Ammonia (as n)	mg/L	MWII-5	07/23/2024		0.1000	ND		0.4383		
Ammonia (as n)	mg/L	MWII-5	11/05/2024		0.1000	ND		0.4383		

* - 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	
Ammonia (as n)	mg/L	MWII-5	02/02/2025		0.1000	ND		0.4383		
Ammonia (as n)	mg/L	MWII-5	06/16/2025		0.1000	ND		0.4383		
Ammonia (as n)	mg/L	MWII-5	08/18/2025		0.1000	ND		0.4383		
Ammonia (as n)	mg/L	MWII-7	03/10/2009	yes	0.1000	ND				
Ammonia (as n)	mg/L	MWII-7	05/18/2009	yes	0.1000	ND				
Ammonia (as n)	mg/L	MWII-7	07/20/2009	yes	0.1000	ND				
Ammonia (as n)	mg/L	MWII-7	11/02/2009	yes	0.1200					
Ammonia (as n)	mg/L	MWII-7	02/22/2010	yes	0.1300					
Ammonia (as n)	mg/L	MWII-7	06/01/2010	yes	0.1000	ND				
Ammonia (as n)	mg/L	MWII-7	08/23/2010	yes	0.1000	ND				
Ammonia (as n)	mg/L	MWII-7	11/16/2010	yes	0.1000	ND				
Ammonia (as n)	mg/L	MWII-7	03/08/2011		0.1000	ND		0.1063		
Ammonia (as n)	mg/L	MWII-7	05/10/2011		0.1000	ND		0.1063		
Ammonia (as n)	mg/L	MWII-7	08/02/2011		0.3400			0.3281		**
Ammonia (as n)	mg/L	MWII-7	11/16/2011		3.7000			3.6881		**
Ammonia (as n)	mg/L	MWII-7	03/14/2012		7.2000			7.1881		**
Ammonia (as n)	mg/L	MWII-7	06/05/2012		0.3400			0.3281		**
Ammonia (as n)	mg/L	MWII-7	08/27/2012		0.1300			0.1181		
Ammonia (as n)	mg/L	MWII-7	11/13/2012		1.6000			1.6000		**
Ammonia (as n)	mg/L	MWII-7	02/24/2013		0.4700			0.4700		**
Ammonia (as n)	mg/L	MWII-7	06/04/2013		0.1000	ND		0.1063		
Ammonia (as n)	mg/L	MWII-7	08/26/2013		0.1800			0.1681		**
Ammonia (as n)	mg/L	MWII-7	02/24/2014		0.1000	ND		0.1063		
Ammonia (as n)	mg/L	MWII-7	05/27/2014		0.1000	ND		0.1063		
Ammonia (as n)	mg/L	MWII-7	08/26/2014		0.1000	ND		0.1063		
Ammonia (as n)	mg/L	MWII-7	11/11/2014		0.3200			0.3081		**
Ammonia (as n)	mg/L	MWII-7	02/23/2015		0.2800			0.2681		**
Ammonia (as n)	mg/L	MWII-7	05/31/2015		0.8300			0.8181		**
Ammonia (as n)	mg/L	MWII-7	08/31/2015		1.8000			1.7881		**
Ammonia (as n)	mg/L	MWII-7	11/09/2015		1.5000			1.4881		**
Ammonia (as n)	mg/L	MWII-7	03/23/2016		0.8700			0.8581		**
Ammonia (as n)	mg/L	MWII-7	05/23/2016		1.1000			1.0881		**
Ammonia (as n)	mg/L	MWII-7	08/15/2016		1.3000			1.2881		**
Ammonia (as n)	mg/L	MWII-7	10/26/2016		0.9800			0.9681		**
Ammonia (as n)	mg/L	MWII-7	02/14/2017		1.0000			0.9881		**
Ammonia (as n)	mg/L	MWII-7	05/23/2017		2.1000			2.0881		**
Ammonia (as n)	mg/L	MWII-7	08/15/2017		1.4000			1.3881		**
Ammonia (as n)	mg/L	MWII-7	11/14/2017		1.7000			1.6881		**
Ammonia (as n)	mg/L	MWII-7	02/13/2018		1.5000			1.4881		**
Ammonia (as n)	mg/L	MWII-7	05/15/2018		1.0000			0.9881		**
Ammonia (as n)	mg/L	MWII-7	08/14/2018		0.9100			0.8981		**
Ammonia (as n)	mg/L	MWII-7	11/13/2018		0.8300			0.8181		**

* - 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	
Ammonia (as n)	mg/L	MWII-7	02/19/2019		0.6300			0.6181		**
Ammonia (as n)	mg/L	MWII-7	06/19/2019		0.4700			0.4581		**
Ammonia (as n)	mg/L	MWII-7	08/27/2019		0.3400			0.3281		**
Ammonia (as n)	mg/L	MWII-7	11/13/2019		0.2800			0.2681		**
Ammonia (as n)	mg/L	MWII-7	02/27/2020		0.2400			0.2281		**
Ammonia (as n)	mg/L	MWII-7	05/17/2020		0.1800			0.1681		**
Ammonia (as n)	mg/L	MWII-7	07/19/2020		0.0870			0.1063		
Ammonia (as n)	mg/L	MWII-7	10/26/2020		0.3200			0.3081		**
Ammonia (as n)	mg/L	MWII-7	01/12/2021		0.2300			0.2181		**
Ammonia (as n)	mg/L	MWII-7	04/13/2021		0.1200			0.1081		
Ammonia (as n)	mg/L	MWII-7	07/26/2021		0.1400			0.1300		
Ammonia (as n)	mg/L	MWII-7	10/18/2021		0.8100			0.8219		**
Ammonia (as n)	mg/L	MWII-7	03/27/2022		0.1700			0.1819		**
Ammonia (as n)	mg/L	MWII-7	05/09/2022		0.3900			0.4019		**
Ammonia (as n)	mg/L	MWII-7	08/23/2022		0.1900			0.2019		**
Ammonia (as n)	mg/L	MWII-7	11/16/2022		0.2100			0.2219		**
Ammonia (as n)	mg/L	MWII-7	02/06/2023		0.2200			0.2319		**
Ammonia (as n)	mg/L	MWII-7	05/14/2023		0.1700			0.1819		**
Ammonia (as n)	mg/L	MWII-7	09/18/2023		0.1700			0.1819		**
Ammonia (as n)	mg/L	MWII-7	11/14/2023		0.1500			0.1619		**
Ammonia (as n)	mg/L	MWII-7	02/04/2024		0.1400			0.1519		
Ammonia (as n)	mg/L	MWII-7	04/29/2024		0.2300			0.2637		**
Ammonia (as n)	mg/L	MWII-7	07/23/2024		0.1000	ND		0.1063		
Ammonia (as n)	mg/L	MWII-7	11/05/2024		0.1300			0.1181		
Ammonia (as n)	mg/L	MWII-7	02/02/2025		0.1200			0.1200		
Ammonia (as n)	mg/L	MWII-7	06/16/2025		0.2900			0.2919		**
Ammonia (as n)	mg/L	MWII-7	08/18/2025		0.3100			0.3119		**
Arsenic, dissolved	mg/L	MWII-2	01/10/2000	yes	0.0200	ND				
Arsenic, dissolved	mg/L	MWII-2	08/09/2004	yes	0.0099					
Arsenic, dissolved	mg/L	MWII-2	01/24/2005	yes	0.0096					
Arsenic, dissolved	mg/L	MWII-2	07/18/2005	yes	0.0084					
Arsenic, dissolved	mg/L	MWII-2	01/23/2006	yes	0.0063					
Arsenic, dissolved	mg/L	MWII-2	07/25/2006	yes	0.0100					
Arsenic, dissolved	mg/L	MWII-2	02/05/2007	yes	0.0067					
Arsenic, dissolved	mg/L	MWII-2	10/16/2007	yes	0.0083					
Arsenic, dissolved	mg/L	MWII-2	03/11/2008	yes	0.0094					
Arsenic, dissolved	mg/L	MWII-2	06/10/2008	yes	0.0088					
Arsenic, dissolved	mg/L	MWII-2	07/29/2008	yes	0.0074					
Arsenic, dissolved	mg/L	MWII-2	11/10/2008	yes	0.0075					
Arsenic, dissolved	mg/L	MWII-2	03/10/2009	yes	0.0068					
Arsenic, dissolved	mg/L	MWII-2	05/18/2009	yes	0.0088					
Arsenic, dissolved	mg/L	MWII-2	07/20/2009	yes	0.0074					

* - Outlier for that well and constituent.

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

*** - ND value replaced with median RL.

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

ND = Not detected, Result = detection limit.

Table 2

Analytical Data and CUSUM Summary

Constituent	Units	Well	Date	Background	Result		Outlier	CUSUM	Adjusted	
Arsenic, dissolved	mg/L	MWII-2	11/02/2009	yes	0.0069					
Arsenic, dissolved	mg/L	MWII-2	02/22/2010	yes	0.0072					
Arsenic, dissolved	mg/L	MWII-2	08/23/2010	yes	0.0078					
Arsenic, dissolved	mg/L	MWII-2	03/08/2011		0.0072			0.0087		
Arsenic, dissolved	mg/L	MWII-2	08/02/2011		0.0065			0.0087		
Arsenic, dissolved	mg/L	MWII-2	03/14/2012		0.0051			0.0087		
Arsenic, dissolved	mg/L	MWII-2	08/27/2012		0.0063			0.0087		
Arsenic, dissolved	mg/L	MWII-2	02/24/2013		0.0069			0.0087		
Arsenic, dissolved	mg/L	MWII-2	08/26/2013		0.0069			0.0087		
Arsenic, dissolved	mg/L	MWII-2	02/24/2014		0.0066			0.0087		
Arsenic, dissolved	mg/L	MWII-2	05/27/2014		0.0069			0.0087		
Arsenic, dissolved	mg/L	MWII-2	08/26/2014		0.0068			0.0087		
Arsenic, dissolved	mg/L	MWII-2	11/11/2014		0.0074			0.0087		
Arsenic, dissolved	mg/L	MWII-2	02/23/2015		0.0077			0.0087		
Arsenic, dissolved	mg/L	MWII-2	05/31/2015		0.0073			0.0087		
Arsenic, dissolved	mg/L	MWII-2	08/31/2015		0.0080			0.0087		
Arsenic, dissolved	mg/L	MWII-2	11/09/2015		0.0072			0.0087		
Arsenic, dissolved	mg/L	MWII-2	03/23/2016		0.0070			0.0087		
Arsenic, dissolved	mg/L	MWII-2	05/23/2016		0.0071			0.0087		
Arsenic, dissolved	mg/L	MWII-2	08/15/2016		0.0068			0.0087		
Arsenic, dissolved	mg/L	MWII-2	10/26/2016		0.0067			0.0087		
Arsenic, dissolved	mg/L	MWII-2	02/14/2017		0.0063			0.0087		
Arsenic, dissolved	mg/L	MWII-2	05/23/2017		0.0064			0.0087		
Arsenic, dissolved	mg/L	MWII-2	08/15/2017		0.0062			0.0087		
Arsenic, dissolved	mg/L	MWII-2	11/14/2017		0.0061			0.0087		
Arsenic, dissolved	mg/L	MWII-2	02/13/2018		0.0062			0.0087		
Arsenic, dissolved	mg/L	MWII-2	05/15/2018		0.0056			0.0087		
Arsenic, dissolved	mg/L	MWII-2	08/14/2018		0.0071			0.0087		
Arsenic, dissolved	mg/L	MWII-2	11/13/2018		0.0064			0.0087		
Arsenic, dissolved	mg/L	MWII-2	02/19/2019		0.0065			0.0087		
Arsenic, dissolved	mg/L	MWII-2	06/19/2019		0.0060			0.0087		
Arsenic, dissolved	mg/L	MWII-2	08/27/2019		0.0059			0.0087		
Arsenic, dissolved	mg/L	MWII-2	11/13/2019		0.0062			0.0087		
Arsenic, dissolved	mg/L	MWII-2	02/27/2020		0.0066			0.0087		
Arsenic, dissolved	mg/L	MWII-2	05/17/2020		0.0065			0.0087		
Arsenic, dissolved	mg/L	MWII-2	07/19/2020		0.0064			0.0087		
Arsenic, dissolved	mg/L	MWII-2	10/26/2020		0.0068			0.0087		
Arsenic, dissolved	mg/L	MWII-2	01/12/2021		0.0059			0.0087		
Arsenic, dissolved	mg/L	MWII-2	04/13/2021		0.0060			0.0087		
Arsenic, dissolved	mg/L	MWII-2	07/26/2021		0.0062			0.0087		
Arsenic, dissolved	mg/L	MWII-2	10/19/2021		0.0051			0.0087		
Arsenic, dissolved	mg/L	MWII-2	03/27/2022		0.0065			0.0087		

* - Outlier for that well and constituent.

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

*** - ND value replaced with median RL.

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

ND = Not detected, Result = detection limit.

Table 2

Analytical Data and CUSUM Summary

Constituent	Units	Well	Date	Background	Result		Outlier	CUSUM	Adjusted	
Arsenic, dissolved	mg/L	MWII-2	05/09/2022		0.0061			0.0087		
Arsenic, dissolved	mg/L	MWII-2	08/23/2022		0.0072			0.0087		
Arsenic, dissolved	mg/L	MWII-2	11/16/2022		0.0063			0.0087		
Arsenic, dissolved	mg/L	MWII-2	02/06/2023		0.0067			0.0087		
Arsenic, dissolved	mg/L	MWII-2	05/14/2023		0.0065			0.0087		
Arsenic, dissolved	mg/L	MWII-2	09/18/2023		0.0056			0.0087		
Arsenic, dissolved	mg/L	MWII-2	11/14/2023		0.0061			0.0087		
Arsenic, dissolved	mg/L	MWII-2	02/04/2024		0.0067			0.0087		
Arsenic, dissolved	mg/L	MWII-2	04/29/2024		0.0050	ND		0.0087		
Arsenic, dissolved	mg/L	MWII-2	07/23/2024		0.0065			0.0087		
Arsenic, dissolved	mg/L	MWII-2	11/05/2024		0.0066			0.0087		
Arsenic, dissolved	mg/L	MWII-2	02/02/2025		0.0066			0.0087		
Arsenic, dissolved	mg/L	MWII-2	06/16/2025		0.0049			0.0087		
Arsenic, dissolved	mg/L	MWII-2	08/18/2025		0.0061			0.0087		
Arsenic, dissolved	mg/L	MWII-5	01/10/2000	yes	0.0200	ND				
Arsenic, dissolved	mg/L	MWII-5	08/09/2004	yes	0.0400					
Arsenic, dissolved	mg/L	MWII-5	01/24/2005	yes	0.0320					
Arsenic, dissolved	mg/L	MWII-5	07/18/2005	yes	0.0380					
Arsenic, dissolved	mg/L	MWII-5	01/23/2006	yes	0.0420					
Arsenic, dissolved	mg/L	MWII-5	07/26/2006	yes	0.0240					
Arsenic, dissolved	mg/L	MWII-5	02/05/2007	yes	0.0300					
Arsenic, dissolved	mg/L	MWII-5	10/16/2007	yes	0.0450					
Arsenic, dissolved	mg/L	MWII-5	03/11/2008	yes	0.0250					
Arsenic, dissolved	mg/L	MWII-5	06/10/2008	yes	0.0260					
Arsenic, dissolved	mg/L	MWII-5	07/29/2008	yes	0.0280					
Arsenic, dissolved	mg/L	MWII-5	11/10/2008	yes	0.0300					
Arsenic, dissolved	mg/L	MWII-5	03/09/2009	yes	0.0210					
Arsenic, dissolved	mg/L	MWII-5	05/18/2009	yes	0.0240					
Arsenic, dissolved	mg/L	MWII-5	07/20/2009	yes	0.0260					
Arsenic, dissolved	mg/L	MWII-5	11/02/2009	yes	0.0270					
Arsenic, dissolved	mg/L	MWII-5	02/22/2010	yes	0.0250					
Arsenic, dissolved	mg/L	MWII-5	08/23/2010	yes	0.0280					
Arsenic, dissolved	mg/L	MWII-5	03/08/2011		0.0230			0.0295		
Arsenic, dissolved	mg/L	MWII-5	08/02/2011		0.0210			0.0295		
Arsenic, dissolved	mg/L	MWII-5	03/14/2012		0.0180			0.0295		
Arsenic, dissolved	mg/L	MWII-5	08/27/2012		0.0230			0.0295		
Arsenic, dissolved	mg/L	MWII-5	02/24/2013		0.0190			0.0295		
Arsenic, dissolved	mg/L	MWII-5	08/26/2013		0.0240			0.0295		
Arsenic, dissolved	mg/L	MWII-5	02/24/2014		0.0190			0.0295		
Arsenic, dissolved	mg/L	MWII-5	05/27/2014		0.0240			0.0295		
Arsenic, dissolved	mg/L	MWII-5	08/26/2014		0.0210			0.0295		
Arsenic, dissolved	mg/L	MWII-5	11/11/2014		0.0190			0.0295		

* - Outlier for that well and constituent.

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

*** - ND value replaced with median RL.

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

ND = Not detected, Result = detection limit.

Table 2

Analytical Data and CUSUM Summary

Constituent	Units	Well	Date	Background	Result		Outlier	CUSUM	Adjusted	
Arsenic, dissolved	mg/L	MWII-5	02/23/2015		0.0150			0.0295		
Arsenic, dissolved	mg/L	MWII-5	05/31/2015		0.0170			0.0295		
Arsenic, dissolved	mg/L	MWII-5	06/01/2015		0.0170			0.0295		
Arsenic, dissolved	mg/L	MWII-5	08/31/2015		0.0200			0.0295		
Arsenic, dissolved	mg/L	MWII-5	11/09/2015		0.0190			0.0295		
Arsenic, dissolved	mg/L	MWII-5	03/17/2016		0.0079			0.0295		
Arsenic, dissolved	mg/L	MWII-5	05/23/2016		0.0160			0.0295		
Arsenic, dissolved	mg/L	MWII-5	08/15/2016		0.0170			0.0295		
Arsenic, dissolved	mg/L	MWII-5	10/26/2016		0.0170			0.0295		
Arsenic, dissolved	mg/L	MWII-5	02/14/2017		0.0170			0.0295		
Arsenic, dissolved	mg/L	MWII-5	05/23/2017		0.0160			0.0295		
Arsenic, dissolved	mg/L	MWII-5	08/15/2017		0.0150			0.0295		
Arsenic, dissolved	mg/L	MWII-5	11/14/2017		0.0160			0.0295		
Arsenic, dissolved	mg/L	MWII-5	02/13/2018		0.0170			0.0295		
Arsenic, dissolved	mg/L	MWII-5	05/15/2018		0.0140			0.0295		
Arsenic, dissolved	mg/L	MWII-5	08/14/2018		0.0150			0.0295		
Arsenic, dissolved	mg/L	MWII-5	11/13/2018		0.0140			0.0295		
Arsenic, dissolved	mg/L	MWII-5	02/19/2019		0.0150			0.0295		
Arsenic, dissolved	mg/L	MWII-5	06/19/2019		0.0170			0.0295		
Arsenic, dissolved	mg/L	MWII-5	08/27/2019		0.0170			0.0295		
Arsenic, dissolved	mg/L	MWII-5	11/12/2019		0.0160			0.0295		
Arsenic, dissolved	mg/L	MWII-5	02/26/2020		0.0130			0.0295		
Arsenic, dissolved	mg/L	MWII-5	05/17/2020		0.0120			0.0295		
Arsenic, dissolved	mg/L	MWII-5	07/19/2020		0.0110			0.0295		
Arsenic, dissolved	mg/L	MWII-5	10/26/2020		0.0130			0.0295		
Arsenic, dissolved	mg/L	MWII-5	01/12/2021		0.0110			0.0295		
Arsenic, dissolved	mg/L	MWII-5	04/13/2021		0.0110			0.0295		
Arsenic, dissolved	mg/L	MWII-5	07/26/2021		0.0110			0.0295		
Arsenic, dissolved	mg/L	MWII-5	10/18/2021		0.0120			0.0295		
Arsenic, dissolved	mg/L	MWII-5	03/27/2022		0.0120			0.0295		
Arsenic, dissolved	mg/L	MWII-5	05/09/2022		0.0120			0.0295		
Arsenic, dissolved	mg/L	MWII-5	08/23/2022		0.0140			0.0295		
Arsenic, dissolved	mg/L	MWII-5	11/16/2022		0.0120			0.0295		
Arsenic, dissolved	mg/L	MWII-5	02/07/2023		0.0130			0.0295		
Arsenic, dissolved	mg/L	MWII-5	05/14/2023		0.0130			0.0295		
Arsenic, dissolved	mg/L	MWII-5	09/18/2023		0.0130			0.0295		
Arsenic, dissolved	mg/L	MWII-5	11/13/2023		0.0130			0.0295		
Arsenic, dissolved	mg/L	MWII-5	02/04/2024		0.0120			0.0295		
Arsenic, dissolved	mg/L	MWII-5	04/29/2024		0.0120			0.0295		
Arsenic, dissolved	mg/L	MWII-5	07/23/2024		0.0110			0.0295		
Arsenic, dissolved	mg/L	MWII-5	11/05/2024		0.0130			0.0295		
Arsenic, dissolved	mg/L	MWII-5	02/02/2025		0.0130			0.0295		

* - Outlier for that well and constituent.

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

*** - ND value replaced with median RL.

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

ND = Not detected, Result = detection limit.

Table 2

Analytical Data and CUSUM Summary

Constituent	Units	Well	Date	Background	Result		Outlier	CUSUM	Adjusted	
Arsenic, dissolved	mg/L	MWII-5	06/16/2025		0.0100			0.0295		
Arsenic, dissolved	mg/L	MWII-5	08/18/2025		0.0130			0.0295		
Arsenic, dissolved	mg/L	MWII-7	03/10/2009	yes	0.0110					
Arsenic, dissolved	mg/L	MWII-7	05/18/2009	yes	0.0110					
Arsenic, dissolved	mg/L	MWII-7	07/20/2009	yes	0.0096					
Arsenic, dissolved	mg/L	MWII-7	11/02/2009	yes	0.0099					
Arsenic, dissolved	mg/L	MWII-7	02/22/2010	yes	0.0097					
Arsenic, dissolved	mg/L	MWII-7	06/01/2010	yes	0.0130					
Arsenic, dissolved	mg/L	MWII-7	08/23/2010	yes	0.0130					
Arsenic, dissolved	mg/L	MWII-7	11/16/2010	yes	0.0130					
Arsenic, dissolved	mg/L	MWII-7	03/08/2011		0.0094			0.0113		
Arsenic, dissolved	mg/L	MWII-7	05/10/2011		0.0075			0.0113		
Arsenic, dissolved	mg/L	MWII-7	08/02/2011		0.0110			0.0113		
Arsenic, dissolved	mg/L	MWII-7	11/16/2011		0.0190			0.0175		**
Arsenic, dissolved	mg/L	MWII-7	03/14/2012		0.0170			0.0217		**
Arsenic, dissolved	mg/L	MWII-7	06/05/2012		0.0120			0.0167		
Arsenic, dissolved	mg/L	MWII-7	08/27/2012		0.0120			0.0159		
Arsenic, dissolved	mg/L	MWII-7	11/13/2012		0.0160			0.0191		**
Arsenic, dissolved	mg/L	MWII-7	02/24/2013		0.0230			0.0261		**
Arsenic, dissolved	mg/L	MWII-7	06/04/2013		0.0120			0.0151		
Arsenic, dissolved	mg/L	MWII-7	08/26/2013		0.0120			0.0143		
Arsenic, dissolved	mg/L	MWII-7	02/24/2014		0.0081			0.0113		
Arsenic, dissolved	mg/L	MWII-7	05/27/2014		0.0070			0.0113		
Arsenic, dissolved	mg/L	MWII-7	08/26/2014		0.0110			0.0113		
Arsenic, dissolved	mg/L	MWII-7	11/11/2014		0.0110			0.0113		
Arsenic, dissolved	mg/L	MWII-7	02/23/2015		0.0140			0.0125		
Arsenic, dissolved	mg/L	MWII-7	05/31/2015		0.0130			0.0127		
Arsenic, dissolved	mg/L	MWII-7	08/31/2015		0.0150			0.0149		
Arsenic, dissolved	mg/L	MWII-7	11/09/2015		0.0310			0.0331		**
Arsenic, dissolved	mg/L	MWII-7	03/23/2016		0.0270			0.0291		**
Arsenic, dissolved	mg/L	MWII-7	05/23/2016		0.0200			0.0221		**
Arsenic, dissolved	mg/L	MWII-7	08/15/2016		0.0280			0.0301		**
Arsenic, dissolved	mg/L	MWII-7	10/26/2016		0.0300			0.0321		**
Arsenic, dissolved	mg/L	MWII-7	02/14/2017		0.0110			0.0131		
Arsenic, dissolved	mg/L	MWII-7	05/23/2017		0.0220			0.0223		**
Arsenic, dissolved	mg/L	MWII-7	08/15/2017		0.0230			0.0233		**
Arsenic, dissolved	mg/L	MWII-7	11/14/2017		0.0170			0.0173		
Arsenic, dissolved	mg/L	MWII-7	02/13/2018		0.0220			0.0265		**
Arsenic, dissolved	mg/L	MWII-7	05/15/2018		0.0200			0.0245		**
Arsenic, dissolved	mg/L	MWII-7	08/14/2018		0.0200			0.0245		**
Arsenic, dissolved	mg/L	MWII-7	11/13/2018		0.0190			0.0235		**
Arsenic, dissolved	mg/L	MWII-7	02/19/2019		0.0190			0.0235		**

* - Outlier for that well and constituent.

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

*** - ND value replaced with median RL.

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

ND = Not detected, Result = detection limit.

Table 2

Analytical Data and CUSUM Summary

Constituent	Units	Well	Date	Background	Result		Outlier	CUSUM	Adjusted	
Arsenic, dissolved	mg/L	MWII-7	06/19/2019		0.0200			0.0245		**
Arsenic, dissolved	mg/L	MWII-7	08/27/2019		0.0180			0.0225		**
Arsenic, dissolved	mg/L	MWII-7	11/13/2019		0.0170			0.0215		**
Arsenic, dissolved	mg/L	MWII-7	02/27/2020		0.0160			0.0205		**
Arsenic, dissolved	mg/L	MWII-7	05/17/2020		0.0150			0.0195		**
Arsenic, dissolved	mg/L	MWII-7	07/19/2020		0.0150			0.0195		**
Arsenic, dissolved	mg/L	MWII-7	10/26/2020		0.0150			0.0195		**
Arsenic, dissolved	mg/L	MWII-7	01/12/2021		0.0130			0.0175		
Arsenic, dissolved	mg/L	MWII-7	04/13/2021		0.0130			0.0177		
Arsenic, dissolved	mg/L	MWII-7	07/26/2021		0.0110			0.0159		
Arsenic, dissolved	mg/L	MWII-7	10/18/2021		0.0120			0.0151		
Arsenic, dissolved	mg/L	MWII-7	03/27/2022		0.0120			0.0143		
Arsenic, dissolved	mg/L	MWII-7	05/09/2022		0.0099			0.0114		
Arsenic, dissolved	mg/L	MWII-7	08/23/2022		0.0120			0.0113		
Arsenic, dissolved	mg/L	MWII-7	11/16/2022		0.0110			0.0113		
Arsenic, dissolved	mg/L	MWII-7	02/06/2023		0.0110			0.0113		
Arsenic, dissolved	mg/L	MWII-7	05/14/2023		0.0079			0.0113		
Arsenic, dissolved	mg/L	MWII-7	09/18/2023		0.0080			0.0113		
Arsenic, dissolved	mg/L	MWII-7	11/14/2023		0.0076			0.0113		
Arsenic, dissolved	mg/L	MWII-7	02/04/2024		0.0074			0.0113		
Arsenic, dissolved	mg/L	MWII-7	04/29/2024		0.0050	ND		0.0113		
Arsenic, dissolved	mg/L	MWII-7	07/23/2024		0.0050	ND		0.0113		
Arsenic, dissolved	mg/L	MWII-7	11/05/2024		0.0056			0.0113		
Arsenic, dissolved	mg/L	MWII-7	02/02/2025		0.0054			0.0113		
Arsenic, dissolved	mg/L	MWII-7	06/16/2025		0.0062			0.0113		
Arsenic, dissolved	mg/L	MWII-7	08/18/2025		0.0064			0.0113		
Arsenic, total	mg/L	MWII-2	03/12/1996	yes	0.0060					
Arsenic, total	mg/L	MWII-2	05/14/1996	yes	0.0500	ND			0.0200	***
Arsenic, total	mg/L	MWII-2	08/06/1996	yes	0.0200	ND				
Arsenic, total	mg/L	MWII-2	01/14/1997	yes	0.0200	ND				
Arsenic, total	mg/L	MWII-2	07/08/1997	yes	0.0200	ND				
Arsenic, total	mg/L	MWII-2	01/13/1998	yes	0.0200	ND				
Arsenic, total	mg/L	MWII-2	08/10/1998	yes	0.0200	ND				
Arsenic, total	mg/L	MWII-2	01/11/1999	yes	0.0200	ND				
Arsenic, total	mg/L	MWII-2	07/12/1999	yes	0.0200	ND				
Arsenic, total	mg/L	MWII-2	01/10/2000	yes	0.0200	ND				
Arsenic, total	mg/L	MWII-2	07/10/2000	yes	0.0200	ND				
Arsenic, total	mg/L	MWII-2	01/29/2001	yes	0.0200	ND				
Arsenic, total	mg/L	MWII-2	08/06/2001	yes	0.0200	ND				
Arsenic, total	mg/L	MWII-2	01/29/2002	yes	0.0200	ND				
Arsenic, total	mg/L	MWII-2	08/05/2002	yes	0.0200	ND				
Arsenic, total	mg/L	MWII-2	01/28/2003	yes	0.0200	ND				

* - Outlier for that well and constituent.

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

*** - ND value replaced with median RL.

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

ND = Not detected, Result = detection limit.

Table 2

Analytical Data and CUSUM Summary

Constituent	Units	Well	Date	Background	Result		Outlier	CUSUM	Adjusted	
Arsenic, total	mg/L	MWII-2	08/04/2003	yes	0.0200	ND				
Arsenic, total	mg/L	MWII-2	01/27/2004	yes	0.0200	ND				
Arsenic, total	mg/L	MWII-2	01/23/2006	yes	0.0069					
Arsenic, total	mg/L	MWII-2	07/25/2006	yes	0.0083					
Arsenic, total	mg/L	MWII-2	02/05/2007	yes	0.0079					
Arsenic, total	mg/L	MWII-2	10/16/2007	yes	0.0078					
Arsenic, total	mg/L	MWII-2	06/10/2008	yes	0.0086					
Arsenic, total	mg/L	MWII-2	07/29/2008	yes	0.0075					
Arsenic, total	mg/L	MWII-2	11/10/2008	yes	0.0080					
Arsenic, total	mg/L	MWII-2	03/10/2009	yes	0.0068					
Arsenic, total	mg/L	MWII-2	05/18/2009	yes	0.0069					
Arsenic, total	mg/L	MWII-2	07/20/2009	yes	0.0094					
Arsenic, total	mg/L	MWII-2	11/02/2009	yes	0.0067					
Arsenic, total	mg/L	MWII-2	02/22/2010	yes	0.0075					
Arsenic, total	mg/L	MWII-2	02/24/2013		0.0072			0.0146		
Arsenic, total	mg/L	MWII-2	08/26/2013		0.0064			0.0146		
Arsenic, total	mg/L	MWII-2	02/24/2014		0.0070			0.0146		
Arsenic, total	mg/L	MWII-2	05/27/2014		0.0072			0.0146		
Arsenic, total	mg/L	MWII-2	08/26/2014		0.0066			0.0146		
Arsenic, total	mg/L	MWII-2	11/11/2014		0.0069			0.0146		
Arsenic, total	mg/L	MWII-2	02/23/2015		0.0070			0.0146		
Arsenic, total	mg/L	MWII-2	05/31/2015		0.0071			0.0146		
Arsenic, total	mg/L	MWII-2	08/31/2015		0.0070			0.0146		
Arsenic, total	mg/L	MWII-2	11/09/2015		0.0065			0.0146		
Arsenic, total	mg/L	MWII-2	03/23/2016		0.0068			0.0146		
Arsenic, total	mg/L	MWII-2	05/23/2016		0.0065			0.0146		
Arsenic, total	mg/L	MWII-2	08/15/2016		0.0077			0.0146		
Arsenic, total	mg/L	MWII-2	10/26/2016		0.0073			0.0146		
Arsenic, total	mg/L	MWII-2	02/14/2017		0.0066			0.0146		
Arsenic, total	mg/L	MWII-2	05/23/2017		0.0066			0.0146		
Arsenic, total	mg/L	MWII-2	08/15/2017		0.0060			0.0146		
Arsenic, total	mg/L	MWII-2	11/14/2017		0.0063			0.0146		
Arsenic, total	mg/L	MWII-2	02/13/2018		0.0064			0.0146		
Arsenic, total	mg/L	MWII-2	05/15/2018		0.0060			0.0146		
Arsenic, total	mg/L	MWII-2	08/14/2018		0.0069			0.0146		
Arsenic, total	mg/L	MWII-2	11/13/2018		0.0065			0.0146		
Arsenic, total	mg/L	MWII-2	02/19/2019		0.0067			0.0146		
Arsenic, total	mg/L	MWII-2	06/19/2019		0.0062			0.0146		
Arsenic, total	mg/L	MWII-2	08/27/2019		0.0068			0.0146		
Arsenic, total	mg/L	MWII-2	11/13/2019		0.0064			0.0146		
Arsenic, total	mg/L	MWII-2	02/27/2020		0.0065			0.0146		
Arsenic, total	mg/L	MWII-2	05/17/2020		0.0075			0.0146		

* - Outlier for that well and constituent.

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

*** - ND value replaced with median RL.

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

ND = Not detected, Result = detection limit.

Table 2

Analytical Data and CUSUM Summary

Constituent	Units	Well	Date	Background	Result		Outlier	CUSUM	Adjusted	
Arsenic, total	mg/L	MWII-2	07/19/2020		0.0066			0.0146		
Arsenic, total	mg/L	MWII-2	10/26/2020		0.0068			0.0146		
Arsenic, total	mg/L	MWII-2	01/12/2021		0.0056			0.0146		
Arsenic, total	mg/L	MWII-2	04/13/2021		0.0062			0.0146		
Arsenic, total	mg/L	MWII-2	07/26/2021		0.0063			0.0146		
Arsenic, total	mg/L	MWII-2	10/19/2021		0.0066			0.0146		
Arsenic, total	mg/L	MWII-2	03/27/2022		0.0062			0.0146		
Arsenic, total	mg/L	MWII-2	05/09/2022		0.0062			0.0146		
Arsenic, total	mg/L	MWII-2	08/23/2022		0.0070			0.0146		
Arsenic, total	mg/L	MWII-2	11/16/2022		0.0069			0.0146		
Arsenic, total	mg/L	MWII-2	02/06/2023		0.0066			0.0146		
Arsenic, total	mg/L	MWII-2	05/14/2023		0.0064			0.0146		
Arsenic, total	mg/L	MWII-2	09/18/2023		0.0068			0.0146		
Arsenic, total	mg/L	MWII-2	11/14/2023		0.0067			0.0146		
Arsenic, total	mg/L	MWII-2	02/04/2024		0.0072			0.0146		
Arsenic, total	mg/L	MWII-2	04/29/2024		0.0055			0.0146		
Arsenic, total	mg/L	MWII-2	07/23/2024		0.0076			0.0146		
Arsenic, total	mg/L	MWII-2	11/05/2024		0.0064			0.0146		
Arsenic, total	mg/L	MWII-2	02/02/2025		0.0069			0.0146		
Arsenic, total	mg/L	MWII-2	06/16/2025		0.0056			0.0146		
Arsenic, total	mg/L	MWII-2	08/18/2025		0.0056			0.0146		
Arsenic, total	mg/L	MWII-5	03/12/1996	yes	0.0040		yes			*
Arsenic, total	mg/L	MWII-5	05/14/1996	yes	0.0500	ND			0.0200	***
Arsenic, total	mg/L	MWII-5	08/06/1996	yes	0.0200	ND				
Arsenic, total	mg/L	MWII-5	01/14/1997	yes	0.0200	ND				
Arsenic, total	mg/L	MWII-5	01/13/1998	yes	0.0200	ND				
Arsenic, total	mg/L	MWII-5	01/11/1999	yes	0.0200	ND				
Arsenic, total	mg/L	MWII-5	01/10/2000	yes	0.0200	ND				
Arsenic, total	mg/L	MWII-5	07/10/2000	yes	0.0200	ND				
Arsenic, total	mg/L	MWII-5	01/29/2001	yes	0.0630					
Arsenic, total	mg/L	MWII-5	01/29/2002	yes	0.0230					
Arsenic, total	mg/L	MWII-5	01/28/2003	yes	0.0490					
Arsenic, total	mg/L	MWII-5	01/27/2004	yes	0.0200	ND				
Arsenic, total	mg/L	MWII-5	01/23/2006	yes	0.0420					
Arsenic, total	mg/L	MWII-5	07/26/2006	yes	0.0230					
Arsenic, total	mg/L	MWII-5	02/05/2007	yes	0.0330					
Arsenic, total	mg/L	MWII-5	10/16/2007	yes	0.0420					
Arsenic, total	mg/L	MWII-5	06/10/2008	yes	0.0270					
Arsenic, total	mg/L	MWII-5	07/29/2008	yes	0.0290					
Arsenic, total	mg/L	MWII-5	11/10/2008	yes	0.0330					
Arsenic, total	mg/L	MWII-5	03/09/2009	yes	0.0210					
Arsenic, total	mg/L	MWII-5	05/18/2009	yes	0.0220					

* - Outlier for that well and constituent.

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

*** - ND value replaced with median RL.

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

ND = Not detected, Result = detection limit.

Table 2

Analytical Data and CUSUM Summary

Constituent	Units	Well	Date	Background	Result		Outlier	CUSUM	Adjusted	
Arsenic, total	mg/L	MWII-5	07/20/2009	yes	0.0300					
Arsenic, total	mg/L	MWII-5	11/02/2009	yes	0.0290					
Arsenic, total	mg/L	MWII-5	02/22/2010	yes	0.0290					
Arsenic, total	mg/L	MWII-5	02/24/2013		0.0180			0.0285		
Arsenic, total	mg/L	MWII-5	08/26/2013		0.0230			0.0285		
Arsenic, total	mg/L	MWII-5	02/24/2014		0.0190			0.0285		
Arsenic, total	mg/L	MWII-5	05/27/2014		0.0240			0.0285		
Arsenic, total	mg/L	MWII-5	08/26/2014		0.0210			0.0285		
Arsenic, total	mg/L	MWII-5	11/11/2014		0.0190			0.0285		
Arsenic, total	mg/L	MWII-5	02/23/2015		0.0150			0.0285		
Arsenic, total	mg/L	MWII-5	05/31/2015		0.0180			0.0285		
Arsenic, total	mg/L	MWII-5	08/31/2015		0.0170			0.0285		
Arsenic, total	mg/L	MWII-5	11/09/2015		0.0190			0.0285		
Arsenic, total	mg/L	MWII-5	03/17/2016		0.0160			0.0285		
Arsenic, total	mg/L	MWII-5	05/23/2016		0.0150			0.0285		
Arsenic, total	mg/L	MWII-5	08/15/2016		0.0170			0.0285		
Arsenic, total	mg/L	MWII-5	10/26/2016		0.0180			0.0285		
Arsenic, total	mg/L	MWII-5	02/14/2017		0.0170			0.0285		
Arsenic, total	mg/L	MWII-5	05/23/2017		0.0160			0.0285		
Arsenic, total	mg/L	MWII-5	08/15/2017		0.0150			0.0285		
Arsenic, total	mg/L	MWII-5	11/14/2017		0.0160			0.0285		
Arsenic, total	mg/L	MWII-5	02/13/2018		0.0160			0.0285		
Arsenic, total	mg/L	MWII-5	05/15/2018		0.0150			0.0285		
Arsenic, total	mg/L	MWII-5	08/14/2018		0.0160			0.0285		
Arsenic, total	mg/L	MWII-5	11/13/2018		0.0140			0.0285		
Arsenic, total	mg/L	MWII-5	02/19/2019		0.0140			0.0285		
Arsenic, total	mg/L	MWII-5	06/19/2019		0.0160			0.0285		
Arsenic, total	mg/L	MWII-5	08/27/2019		0.0180			0.0285		
Arsenic, total	mg/L	MWII-5	11/12/2019		0.0170			0.0285		
Arsenic, total	mg/L	MWII-5	02/26/2020		0.0140			0.0285		
Arsenic, total	mg/L	MWII-5	05/17/2020		0.0130			0.0285		
Arsenic, total	mg/L	MWII-5	07/19/2020		0.0110			0.0285		
Arsenic, total	mg/L	MWII-5	10/26/2020		0.0110			0.0285		
Arsenic, total	mg/L	MWII-5	01/12/2021		0.0120			0.0285		
Arsenic, total	mg/L	MWII-5	04/13/2021		0.0110			0.0285		
Arsenic, total	mg/L	MWII-5	07/26/2021		0.0110			0.0285		
Arsenic, total	mg/L	MWII-5	10/18/2021		0.0130			0.0285		
Arsenic, total	mg/L	MWII-5	03/27/2022		0.0120			0.0285		
Arsenic, total	mg/L	MWII-5	05/09/2022		0.0120			0.0285		
Arsenic, total	mg/L	MWII-5	08/23/2022		0.0140			0.0285		
Arsenic, total	mg/L	MWII-5	11/16/2022		0.0120			0.0285		
Arsenic, total	mg/L	MWII-5	02/07/2023		0.0130			0.0285		

* - Outlier for that well and constituent.

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

*** - ND value replaced with median RL.

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

ND = Not detected, Result = detection limit.

Table 2

Analytical Data and CUSUM Summary

Constituent	Units	Well	Date	Background	Result		Outlier	CUSUM	Adjusted	
Arsenic, total	mg/L	MWII-5	05/14/2023		0.0120			0.0285		
Arsenic, total	mg/L	MWII-5	09/18/2023		0.0120			0.0285		
Arsenic, total	mg/L	MWII-5	11/13/2023		0.0130			0.0285		
Arsenic, total	mg/L	MWII-5	02/04/2024		0.0120			0.0285		
Arsenic, total	mg/L	MWII-5	04/29/2024		0.0120			0.0285		
Arsenic, total	mg/L	MWII-5	07/23/2024		0.0130			0.0285		
Arsenic, total	mg/L	MWII-5	11/05/2024		0.0130			0.0285		
Arsenic, total	mg/L	MWII-5	02/02/2025		0.0130			0.0285		
Arsenic, total	mg/L	MWII-5	06/16/2025		0.0092			0.0285		
Arsenic, total	mg/L	MWII-5	08/18/2025		0.0130			0.0285		
Arsenic, total	mg/L	MWII-7	03/10/2009	yes	0.0110					
Arsenic, total	mg/L	MWII-7	05/18/2009	yes	0.0090					
Arsenic, total	mg/L	MWII-7	07/20/2009	yes	0.0110					
Arsenic, total	mg/L	MWII-7	11/02/2009	yes	0.0100					
Arsenic, total	mg/L	MWII-7	02/22/2010	yes	0.0100					
Arsenic, total	mg/L	MWII-7	06/05/2012		0.0120			0.0112		
Arsenic, total	mg/L	MWII-7	08/27/2012		0.0120			0.0121		
Arsenic, total	mg/L	MWII-7	11/13/2012		0.0160			0.0171		**
Arsenic, total	mg/L	MWII-7	02/24/2013		0.0230			0.0241		**
Arsenic, total	mg/L	MWII-7	06/04/2013		0.0110			0.0121		
Arsenic, total	mg/L	MWII-7	08/26/2013		0.0120			0.0131		
Arsenic, total	mg/L	MWII-7	02/24/2014		0.0080			0.0102		
Arsenic, total	mg/L	MWII-7	05/27/2014		0.0081			0.0102		
Arsenic, total	mg/L	MWII-7	08/26/2014		0.0120			0.0112		
Arsenic, total	mg/L	MWII-7	11/11/2014		0.0110			0.0111		
Arsenic, total	mg/L	MWII-7	02/23/2015		0.0130			0.0131		
Arsenic, total	mg/L	MWII-7	05/31/2015		0.0130			0.0151		**
Arsenic, total	mg/L	MWII-7	08/31/2015		0.0140			0.0161		**
Arsenic, total	mg/L	MWII-7	11/09/2015		0.0340			0.0361		**
Arsenic, total	mg/L	MWII-7	03/23/2016		0.0400			0.0421		**
Arsenic, total	mg/L	MWII-7	05/23/2016		0.0250			0.0271		**
Arsenic, total	mg/L	MWII-7	08/15/2016		0.0300			0.0321		**
Arsenic, total	mg/L	MWII-7	10/26/2016		0.0340			0.0361		**
Arsenic, total	mg/L	MWII-7	02/14/2017		0.0150			0.0171		**
Arsenic, total	mg/L	MWII-7	05/23/2017		0.0210			0.0231		**
Arsenic, total	mg/L	MWII-7	08/15/2017		0.0230			0.0251		**
Arsenic, total	mg/L	MWII-7	11/14/2017		0.0180			0.0201		**
Arsenic, total	mg/L	MWII-7	02/13/2018		0.0230			0.0251		**
Arsenic, total	mg/L	MWII-7	05/15/2018		0.0200			0.0221		**
Arsenic, total	mg/L	MWII-7	08/14/2018		0.0210			0.0231		**
Arsenic, total	mg/L	MWII-7	11/13/2018		0.0200			0.0221		**
Arsenic, total	mg/L	MWII-7	02/19/2019		0.0200			0.0221		**

* - Outlier for that well and constituent.

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

*** - ND value replaced with median RL.

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

ND = Not detected, Result = detection limit.

Table 2

Analytical Data and CUSUM Summary

Constituent	Units	Well	Date	Background	Result		Outlier	CUSUM	Adjusted	
Arsenic, total	mg/L	MWII-7	06/19/2019		0.0200			0.0221		**
Arsenic, total	mg/L	MWII-7	08/27/2019		0.0190			0.0211		**
Arsenic, total	mg/L	MWII-7	11/13/2019		0.0190			0.0211		**
Arsenic, total	mg/L	MWII-7	02/27/2020		0.0170			0.0191		**
Arsenic, total	mg/L	MWII-7	05/17/2020		0.0160			0.0181		**
Arsenic, total	mg/L	MWII-7	07/19/2020		0.0130			0.0151		**
Arsenic, total	mg/L	MWII-7	10/26/2020		0.0160			0.0181		**
Arsenic, total	mg/L	MWII-7	01/12/2021		0.0140			0.0161		**
Arsenic, total	mg/L	MWII-7	04/13/2021		0.0120			0.0141		**
Arsenic, total	mg/L	MWII-7	07/26/2021		0.0120			0.0141		**
Arsenic, total	mg/L	MWII-7	10/18/2021		0.0120			0.0141		**
Arsenic, total	mg/L	MWII-7	03/27/2022		0.0120			0.0141		**
Arsenic, total	mg/L	MWII-7	05/09/2022		0.0110			0.0131		
Arsenic, total	mg/L	MWII-7	08/23/2022		0.0130			0.0150		**
Arsenic, total	mg/L	MWII-7	11/16/2022		0.0120			0.0140		**
Arsenic, total	mg/L	MWII-7	02/06/2023		0.0110			0.0130		
Arsenic, total	mg/L	MWII-7	05/14/2023		0.0094			0.0114		
Arsenic, total	mg/L	MWII-7	09/18/2023		0.0059			0.0102		
Arsenic, total	mg/L	MWII-7	11/14/2023		0.0085			0.0102		
Arsenic, total	mg/L	MWII-7	02/04/2024		0.0078			0.0102		
Arsenic, total	mg/L	MWII-7	04/29/2024		0.0050	ND		0.0102		
Arsenic, total	mg/L	MWII-7	07/23/2024		0.0050	ND		0.0102		
Arsenic, total	mg/L	MWII-7	11/05/2024		0.0059			0.0102		
Arsenic, total	mg/L	MWII-7	02/02/2025		0.0061			0.0102		
Arsenic, total	mg/L	MWII-7	06/16/2025		0.0059			0.0102		
Arsenic, total	mg/L	MWII-7	08/18/2025		0.0057			0.0102		
Chemical oxygen demand	mg/L	MWII-2	02/22/2010	yes	11.0000					
Chemical oxygen demand	mg/L	MWII-2	08/23/2010	yes	25.0000					
Chemical oxygen demand	mg/L	MWII-2	03/08/2011		20.0000	ND				
Chemical oxygen demand	mg/L	MWII-2	08/02/2011		20.0000	ND				
Chemical oxygen demand	mg/L	MWII-2	03/14/2012		20.0000	ND				
Chemical oxygen demand	mg/L	MWII-2	08/27/2012		20.0000	ND				
Chemical oxygen demand	mg/L	MWII-2	02/24/2013		20.0000	ND				
Chemical oxygen demand	mg/L	MWII-2	08/26/2013		20.0000	ND				
Chemical oxygen demand	mg/L	MWII-2	02/24/2014		20.0000	ND				
Chemical oxygen demand	mg/L	MWII-2	05/27/2014		20.0000	ND				
Chemical oxygen demand	mg/L	MWII-2	08/26/2014		20.0000	ND				
Chemical oxygen demand	mg/L	MWII-2	11/11/2014		20.0000	ND				
Chemical oxygen demand	mg/L	MWII-2	02/23/2015		20.0000	ND				
Chemical oxygen demand	mg/L	MWII-2	05/31/2015		20.0000	ND				
Chemical oxygen demand	mg/L	MWII-2	08/31/2015		20.0000	ND				
Chemical oxygen demand	mg/L	MWII-2	11/09/2015		20.0000	ND				

* - Outlier for that well and constituent.

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

*** - ND value replaced with median RL.

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

ND = Not detected, Result = detection limit.

Table 2

Analytical Data and CUSUM Summary

Constituent	Units	Well	Date	Background	Result		Outlier	CUSUM	Adjusted	
Chemical oxygen demand	mg/L	MWII-2	03/23/2016		20.0000	ND				
Chemical oxygen demand	mg/L	MWII-2	05/23/2016		20.0000	ND				
Chemical oxygen demand	mg/L	MWII-2	08/15/2016		20.0000	ND				
Chemical oxygen demand	mg/L	MWII-2	10/26/2016		20.0000	ND				
Chemical oxygen demand	mg/L	MWII-2	02/14/2017		20.0000	ND				
Chemical oxygen demand	mg/L	MWII-2	05/23/2017		20.0000	ND				
Chemical oxygen demand	mg/L	MWII-2	08/15/2017		20.0000	ND				
Chemical oxygen demand	mg/L	MWII-2	11/14/2017		20.0000	ND				
Chemical oxygen demand	mg/L	MWII-2	02/13/2018		20.0000	ND				
Chemical oxygen demand	mg/L	MWII-2	05/15/2018		20.0000	ND				
Chemical oxygen demand	mg/L	MWII-2	08/14/2018		20.0000					
Chemical oxygen demand	mg/L	MWII-2	11/13/2018		20.0000	ND				
Chemical oxygen demand	mg/L	MWII-2	02/19/2019		20.0000	ND				
Chemical oxygen demand	mg/L	MWII-2	06/19/2019		20.0000	ND				
Chemical oxygen demand	mg/L	MWII-2	08/27/2019		20.0000	ND				
Chemical oxygen demand	mg/L	MWII-2	11/13/2019		20.0000	ND				
Chemical oxygen demand	mg/L	MWII-2	02/27/2020		15.0000					
Chemical oxygen demand	mg/L	MWII-2	05/17/2020		8.7000	ND				
Chemical oxygen demand	mg/L	MWII-2	07/19/2020		16.0000					
Chemical oxygen demand	mg/L	MWII-2	10/26/2020		8.7000	ND				
Chemical oxygen demand	mg/L	MWII-2	01/12/2021		8.7000	ND				
Chemical oxygen demand	mg/L	MWII-2	04/13/2021		8.7000	ND				
Chemical oxygen demand	mg/L	MWII-2	07/26/2021		20.0000	ND				
Chemical oxygen demand	mg/L	MWII-2	10/19/2021		20.0000	ND				
Chemical oxygen demand	mg/L	MWII-2	03/27/2022		20.0000					
Chemical oxygen demand	mg/L	MWII-2	05/09/2022		21.0000					
Chemical oxygen demand	mg/L	MWII-2	08/23/2022		23.0000					
Chemical oxygen demand	mg/L	MWII-2	11/16/2022		20.0000	ND				
Chemical oxygen demand	mg/L	MWII-2	02/06/2023		20.0000	ND				
Chemical oxygen demand	mg/L	MWII-2	05/14/2023		20.0000	ND				
Chemical oxygen demand	mg/L	MWII-2	09/18/2023		20.0000	ND				
Chemical oxygen demand	mg/L	MWII-2	11/14/2023		20.0000	ND				
Chemical oxygen demand	mg/L	MWII-2	02/04/2024		20.0000					
Chemical oxygen demand	mg/L	MWII-2	04/29/2024		20.0000	ND				
Chemical oxygen demand	mg/L	MWII-2	07/23/2024		20.0000	ND				
Chemical oxygen demand	mg/L	MWII-2	11/05/2024		20.0000	ND				
Chemical oxygen demand	mg/L	MWII-2	02/02/2025		20.0000	ND				
Chemical oxygen demand	mg/L	MWII-2	06/16/2025		20.0000	ND				
Chemical oxygen demand	mg/L	MWII-2	08/18/2025		20.0000	ND				
Chemical oxygen demand	mg/L	MWII-5	02/22/2010	yes	20.0000	ND				
Chemical oxygen demand	mg/L	MWII-5	08/23/2010	yes	20.0000	ND				
Chemical oxygen demand	mg/L	MWII-5	03/08/2011		22.0000					

* - Outlier for that well and constituent.

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

*** - ND value replaced with median RL.

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

ND = Not detected, Result = detection limit.

Table 2

Analytical Data and CUSUM Summary

Constituent	Units	Well	Date	Background	Result		Outlier	CUSUM	Adjusted	
Chemical oxygen demand	mg/L	MWII-5	08/02/2011		20.0000	ND				
Chemical oxygen demand	mg/L	MWII-5	03/14/2012		20.0000	ND				
Chemical oxygen demand	mg/L	MWII-5	08/27/2012		20.0000	ND				
Chemical oxygen demand	mg/L	MWII-5	02/24/2013		20.0000	ND				
Chemical oxygen demand	mg/L	MWII-5	08/26/2013		20.0000	ND				
Chemical oxygen demand	mg/L	MWII-5	02/24/2014		20.0000	ND				
Chemical oxygen demand	mg/L	MWII-5	05/27/2014		20.0000	ND				
Chemical oxygen demand	mg/L	MWII-5	08/26/2014		20.0000	ND				
Chemical oxygen demand	mg/L	MWII-5	11/11/2014		20.0000	ND				
Chemical oxygen demand	mg/L	MWII-5	02/23/2015		20.0000	ND				
Chemical oxygen demand	mg/L	MWII-5	05/31/2015		20.0000	ND				
Chemical oxygen demand	mg/L	MWII-5	08/31/2015		20.0000	ND				
Chemical oxygen demand	mg/L	MWII-5	11/09/2015		20.0000	ND				
Chemical oxygen demand	mg/L	MWII-5	03/17/2016		20.0000	ND				
Chemical oxygen demand	mg/L	MWII-5	05/23/2016		20.0000	ND				
Chemical oxygen demand	mg/L	MWII-5	08/15/2016		20.0000	ND				
Chemical oxygen demand	mg/L	MWII-5	10/26/2016		20.0000					
Chemical oxygen demand	mg/L	MWII-5	02/14/2017		20.0000	ND				
Chemical oxygen demand	mg/L	MWII-5	05/23/2017		20.0000	ND				
Chemical oxygen demand	mg/L	MWII-5	08/15/2017		20.0000	ND				
Chemical oxygen demand	mg/L	MWII-5	11/14/2017		20.0000	ND				
Chemical oxygen demand	mg/L	MWII-5	02/13/2018		20.0000	ND				
Chemical oxygen demand	mg/L	MWII-5	05/15/2018		20.0000	ND				
Chemical oxygen demand	mg/L	MWII-5	08/14/2018		21.0000					
Chemical oxygen demand	mg/L	MWII-5	11/13/2018		20.0000	ND				
Chemical oxygen demand	mg/L	MWII-5	02/19/2019		20.0000	ND				
Chemical oxygen demand	mg/L	MWII-5	06/19/2019		20.0000	ND				
Chemical oxygen demand	mg/L	MWII-5	08/27/2019		20.0000	ND				
Chemical oxygen demand	mg/L	MWII-5	11/12/2019		20.0000	ND				
Chemical oxygen demand	mg/L	MWII-5	02/26/2020		16.0000					
Chemical oxygen demand	mg/L	MWII-5	05/17/2020		8.7000	ND				
Chemical oxygen demand	mg/L	MWII-5	07/19/2020		16.0000					
Chemical oxygen demand	mg/L	MWII-5	10/26/2020		9.7000					
Chemical oxygen demand	mg/L	MWII-5	01/12/2021		10.0000					
Chemical oxygen demand	mg/L	MWII-5	04/13/2021		8.7000	ND				
Chemical oxygen demand	mg/L	MWII-5	07/26/2021		20.0000	ND				
Chemical oxygen demand	mg/L	MWII-5	10/18/2021		20.0000	ND				
Chemical oxygen demand	mg/L	MWII-5	03/27/2022		20.0000	ND				
Chemical oxygen demand	mg/L	MWII-5	05/09/2022		22.0000					
Chemical oxygen demand	mg/L	MWII-5	08/23/2022		27.0000					
Chemical oxygen demand	mg/L	MWII-5	11/16/2022		20.0000	ND				
Chemical oxygen demand	mg/L	MWII-5	02/07/2023		20.0000	ND				

* - Outlier for that well and constituent.

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

*** - ND value replaced with median RL.

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

ND = Not detected, Result = detection limit.

Table 2

Analytical Data and CUSUM Summary

Constituent	Units	Well	Date	Background	Result		Outlier	CUSUM	Adjusted	
Chemical oxygen demand	mg/L	MWII-5	05/14/2023		20.0000	ND				
Chemical oxygen demand	mg/L	MWII-5	09/18/2023		20.0000	ND				
Chemical oxygen demand	mg/L	MWII-5	11/13/2023		20.0000	ND				
Chemical oxygen demand	mg/L	MWII-5	02/04/2024		20.0000	ND				
Chemical oxygen demand	mg/L	MWII-5	04/29/2024		20.0000	ND				
Chemical oxygen demand	mg/L	MWII-5	07/23/2024		20.0000	ND				
Chemical oxygen demand	mg/L	MWII-5	11/05/2024		20.0000	ND				
Chemical oxygen demand	mg/L	MWII-5	02/02/2025		20.0000	ND				
Chemical oxygen demand	mg/L	MWII-5	06/16/2025		20.0000	ND				
Chemical oxygen demand	mg/L	MWII-5	08/18/2025		20.0000	ND				
Chemical oxygen demand	mg/L	MWII-7	03/10/2009	yes	20.0000	ND				
Chemical oxygen demand	mg/L	MWII-7	11/02/2009	yes	20.0000	ND				
Chemical oxygen demand	mg/L	MWII-7	02/22/2010	yes	10.0000					
Chemical oxygen demand	mg/L	MWII-7	06/01/2010	yes	20.0000	ND				
Chemical oxygen demand	mg/L	MWII-7	08/23/2010	yes	20.0000	ND				
Chemical oxygen demand	mg/L	MWII-7	11/16/2010	yes	22.0000					
Chemical oxygen demand	mg/L	MWII-7	03/08/2011		20.0000	ND		18.6667		
Chemical oxygen demand	mg/L	MWII-7	05/10/2011		20.0000	ND		18.6667		
Chemical oxygen demand	mg/L	MWII-7	08/02/2011		20.0000	ND		18.6667		
Chemical oxygen demand	mg/L	MWII-7	11/16/2011		150.0000			145.6795		**
Chemical oxygen demand	mg/L	MWII-7	03/14/2012		200.0000			195.6795		**
Chemical oxygen demand	mg/L	MWII-7	06/05/2012		20.0000	ND		18.6667		
Chemical oxygen demand	mg/L	MWII-7	08/27/2012		20.0000	ND		18.6667		
Chemical oxygen demand	mg/L	MWII-7	11/13/2012		130.0000			125.6795		**
Chemical oxygen demand	mg/L	MWII-7	02/24/2013		280.0000			275.6795		**
Chemical oxygen demand	mg/L	MWII-7	06/04/2013		22.0000			18.6667		
Chemical oxygen demand	mg/L	MWII-7	08/26/2013		20.0000	ND		18.6667		
Chemical oxygen demand	mg/L	MWII-7	02/24/2014		20.0000	ND		18.6667		
Chemical oxygen demand	mg/L	MWII-7	05/27/2014		20.0000	ND		18.6667		
Chemical oxygen demand	mg/L	MWII-7	08/26/2014		20.0000	ND		18.6667		
Chemical oxygen demand	mg/L	MWII-7	11/11/2014		24.0000			19.6795		
Chemical oxygen demand	mg/L	MWII-7	02/23/2015		79.0000			75.6923		**
Chemical oxygen demand	mg/L	MWII-7	05/31/2015		170.0000			166.6923		**
Chemical oxygen demand	mg/L	MWII-7	08/31/2015		20.0000	ND		18.6667		
Chemical oxygen demand	mg/L	MWII-7	11/09/2015		38.0000			33.6795		
Chemical oxygen demand	mg/L	MWII-7	03/23/2016		36.0000			46.6923		**
Chemical oxygen demand	mg/L	MWII-7	05/23/2016		20.0000	ND		18.6667		
Chemical oxygen demand	mg/L	MWII-7	08/15/2016		20.0000	ND		18.6667		
Chemical oxygen demand	mg/L	MWII-7	10/26/2016		81.0000			76.6795		**
Chemical oxygen demand	mg/L	MWII-7	02/14/2017		20.0000	ND		18.6667		
Chemical oxygen demand	mg/L	MWII-7	05/23/2017		20.0000	ND		18.6667		
Chemical oxygen demand	mg/L	MWII-7	08/15/2017		20.0000	ND		18.6667		

* - 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	
Chemical oxygen demand	mg/L	MWII-7	11/14/2017		31.0000			26.6795		
Chemical oxygen demand	mg/L	MWII-7	02/13/2018		34.0000			37.6923		
Chemical oxygen demand	mg/L	MWII-7	05/15/2018		44.0000			58.7052		**
Chemical oxygen demand	mg/L	MWII-7	08/14/2018		44.0000			58.7052		**
Chemical oxygen demand	mg/L	MWII-7	11/13/2018		30.0000			44.7052		**
Chemical oxygen demand	mg/L	MWII-7	02/19/2019		54.0000			68.7052		**
Chemical oxygen demand	mg/L	MWII-7	06/19/2019		120.0000			134.7052		**
Chemical oxygen demand	mg/L	MWII-7	08/27/2019		120.0000			134.7052		**
Chemical oxygen demand	mg/L	MWII-7	11/13/2019		110.0000			124.7052		**
Chemical oxygen demand	mg/L	MWII-7	02/27/2020		31.0000			45.7052		**
Chemical oxygen demand	mg/L	MWII-7	05/17/2020		310.0000			324.7052		**
Chemical oxygen demand	mg/L	MWII-7	07/19/2020		160.0000			174.7052		**
Chemical oxygen demand	mg/L	MWII-7	10/26/2020		170.0000			184.7052		**
Chemical oxygen demand	mg/L	MWII-7	01/12/2021		94.0000			108.7052		**
Chemical oxygen demand	mg/L	MWII-7	04/13/2021		120.0000			134.7052		**
Chemical oxygen demand	mg/L	MWII-7	07/26/2021		100.0000	ND		18.6667		
Chemical oxygen demand	mg/L	MWII-7	10/18/2021		89.0000			84.6795		**
Chemical oxygen demand	mg/L	MWII-7	03/27/2022		100.0000	ND		18.6667		
Chemical oxygen demand	mg/L	MWII-7	05/09/2022		130.0000			125.6795		**
Chemical oxygen demand	mg/L	MWII-7	08/23/2022		180.0000			175.6795		**
Chemical oxygen demand	mg/L	MWII-7	11/16/2022		81.0000			76.6795		**
Chemical oxygen demand	mg/L	MWII-7	02/06/2023		73.0000			68.6795		**
Chemical oxygen demand	mg/L	MWII-7	05/14/2023		62.0000			57.6795		**
Chemical oxygen demand	mg/L	MWII-7	09/18/2023		27.0000			22.6795		
Chemical oxygen demand	mg/L	MWII-7	11/14/2023		100.0000	ND		18.6667		
Chemical oxygen demand	mg/L	MWII-7	02/04/2024		71.0000			66.6795		**
Chemical oxygen demand	mg/L	MWII-7	04/29/2024		130.0000			125.6795		**
Chemical oxygen demand	mg/L	MWII-7	07/23/2024		100.0000	ND		18.6667		
Chemical oxygen demand	mg/L	MWII-7	11/05/2024		31.0000			26.6795		
Chemical oxygen demand	mg/L	MWII-7	02/02/2025		27.0000			30.6923		
Chemical oxygen demand	mg/L	MWII-7	06/16/2025		20.0000	ND		18.6667		
Chemical oxygen demand	mg/L	MWII-7	08/18/2025		20.0000	ND		18.6667		
Iron, dissolved	mg/L	MWII-2	01/10/2000	yes	0.0600	ND			0.0500	***
Iron, dissolved	mg/L	MWII-2	08/09/2004	yes	0.0500	ND				
Iron, dissolved	mg/L	MWII-2	01/24/2005	yes	0.0500	ND				
Iron, dissolved	mg/L	MWII-2	07/18/2005	yes	0.0350					
Iron, dissolved	mg/L	MWII-2	01/23/2006	yes	0.0500	ND				
Iron, dissolved	mg/L	MWII-2	07/25/2006	yes	0.0500	ND				
Iron, dissolved	mg/L	MWII-2	02/05/2007	yes	0.0500	ND				
Iron, dissolved	mg/L	MWII-2	10/16/2007	yes	0.0500	ND				
Iron, dissolved	mg/L	MWII-2	03/11/2008	yes	0.0500	ND				
Iron, dissolved	mg/L	MWII-2	06/10/2008	yes	0.0500	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	
Iron, dissolved	mg/L	MWII-2	07/29/2008	yes	0.0500	ND				
Iron, dissolved	mg/L	MWII-2	11/10/2008	yes	0.0500	ND				
Iron, dissolved	mg/L	MWII-2	03/10/2009	yes	0.0500	ND				
Iron, dissolved	mg/L	MWII-2	05/18/2009	yes	0.0500	ND				
Iron, dissolved	mg/L	MWII-2	07/20/2009	yes	0.0500	ND				
Iron, dissolved	mg/L	MWII-2	11/02/2009	yes	0.0500	ND				
Iron, dissolved	mg/L	MWII-2	02/22/2010	yes	0.0500	ND				
Iron, dissolved	mg/L	MWII-2	08/23/2010	yes	0.2900					
Iron, dissolved	mg/L	MWII-2	03/08/2011		0.0500	ND				
Iron, dissolved	mg/L	MWII-2	08/02/2011		0.0500	ND				
Iron, dissolved	mg/L	MWII-2	03/14/2012		0.0500	ND				
Iron, dissolved	mg/L	MWII-2	08/27/2012		0.0500	ND				
Iron, dissolved	mg/L	MWII-2	02/24/2013		0.0500	ND				
Iron, dissolved	mg/L	MWII-2	08/26/2013		0.0500	ND				
Iron, dissolved	mg/L	MWII-2	02/24/2014		0.0500	ND				
Iron, dissolved	mg/L	MWII-2	05/27/2014		0.0710					
Iron, dissolved	mg/L	MWII-2	08/26/2014		0.0500	ND				
Iron, dissolved	mg/L	MWII-2	11/11/2014		0.0500	ND				
Iron, dissolved	mg/L	MWII-2	02/23/2015		0.0500	ND				
Iron, dissolved	mg/L	MWII-2	05/31/2015		0.0500	ND				
Iron, dissolved	mg/L	MWII-2	08/31/2015		0.0500	ND				
Iron, dissolved	mg/L	MWII-2	11/09/2015		0.0500	ND				
Iron, dissolved	mg/L	MWII-2	03/23/2016		0.0500	ND				
Iron, dissolved	mg/L	MWII-2	05/23/2016		0.0500	ND				
Iron, dissolved	mg/L	MWII-2	08/15/2016		0.0500	ND				
Iron, dissolved	mg/L	MWII-2	10/26/2016		0.0500	ND				
Iron, dissolved	mg/L	MWII-2	02/14/2017		0.0500	ND				
Iron, dissolved	mg/L	MWII-2	05/23/2017		0.0500	ND				
Iron, dissolved	mg/L	MWII-2	08/15/2017		0.0500	ND				
Iron, dissolved	mg/L	MWII-2	11/14/2017		0.0500	ND				
Iron, dissolved	mg/L	MWII-2	02/13/2018		0.0500	ND				
Iron, dissolved	mg/L	MWII-2	05/15/2018		0.0500	ND				
Iron, dissolved	mg/L	MWII-2	08/14/2018		0.0500	ND				
Iron, dissolved	mg/L	MWII-2	11/13/2018		0.0500	ND				
Iron, dissolved	mg/L	MWII-2	02/19/2019		0.0500	ND				
Iron, dissolved	mg/L	MWII-2	06/19/2019		0.0500	ND				
Iron, dissolved	mg/L	MWII-2	08/27/2019		0.0500	ND				
Iron, dissolved	mg/L	MWII-2	11/13/2019		0.0500	ND				
Iron, dissolved	mg/L	MWII-2	02/27/2020		0.0500	ND				
Iron, dissolved	mg/L	MWII-2	05/17/2020		0.0220	ND				
Iron, dissolved	mg/L	MWII-2	07/19/2020		0.0220	ND				
Iron, dissolved	mg/L	MWII-2	10/26/2020		0.0220	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	
Iron, dissolved	mg/L	MWII-2	01/12/2021		0.0230					
Iron, dissolved	mg/L	MWII-2	04/13/2021		0.0220	ND				
Iron, dissolved	mg/L	MWII-2	07/26/2021		0.0510					
Iron, dissolved	mg/L	MWII-2	10/19/2021		0.0500	ND				
Iron, dissolved	mg/L	MWII-2	03/27/2022		0.0500	ND				
Iron, dissolved	mg/L	MWII-2	05/09/2022		0.0500	ND				
Iron, dissolved	mg/L	MWII-2	08/23/2022		0.0500	ND				
Iron, dissolved	mg/L	MWII-2	11/16/2022		0.0500	ND				
Iron, dissolved	mg/L	MWII-2	02/06/2023		0.0500	ND				
Iron, dissolved	mg/L	MWII-2	05/14/2023		0.0500	ND				
Iron, dissolved	mg/L	MWII-2	09/18/2023		0.2300					
Iron, dissolved	mg/L	MWII-2	11/14/2023		0.0500	ND				
Iron, dissolved	mg/L	MWII-2	02/04/2024		0.0500	ND				
Iron, dissolved	mg/L	MWII-2	04/29/2024		0.0500	ND				
Iron, dissolved	mg/L	MWII-2	07/23/2024		0.0500	ND				
Iron, dissolved	mg/L	MWII-2	11/05/2024		0.0500	ND				
Iron, dissolved	mg/L	MWII-2	02/02/2025		0.1000	ND				
Iron, dissolved	mg/L	MWII-2	06/16/2025		0.1000	ND				
Iron, dissolved	mg/L	MWII-2	08/18/2025		0.1000	ND				
Iron, dissolved	mg/L	MWII-5	01/10/2000	yes	0.0600	ND			0.0500	***
Iron, dissolved	mg/L	MWII-5	08/09/2004	yes	0.1400					
Iron, dissolved	mg/L	MWII-5	01/24/2005	yes	0.0500	ND				
Iron, dissolved	mg/L	MWII-5	07/18/2005	yes	0.0740					
Iron, dissolved	mg/L	MWII-5	01/23/2006	yes	0.0590					
Iron, dissolved	mg/L	MWII-5	07/26/2006	yes	0.0500	ND				
Iron, dissolved	mg/L	MWII-5	02/05/2007	yes	0.0500	ND				
Iron, dissolved	mg/L	MWII-5	10/16/2007	yes	0.0650					
Iron, dissolved	mg/L	MWII-5	03/11/2008	yes	0.0760					
Iron, dissolved	mg/L	MWII-5	06/10/2008	yes	0.0600					
Iron, dissolved	mg/L	MWII-5	07/29/2008	yes	0.0500	ND				
Iron, dissolved	mg/L	MWII-5	11/10/2008	yes	0.0500	ND				
Iron, dissolved	mg/L	MWII-5	03/09/2009	yes	0.0500	ND				
Iron, dissolved	mg/L	MWII-5	05/18/2009	yes	0.0500	ND				
Iron, dissolved	mg/L	MWII-5	07/20/2009	yes	0.0500	ND				
Iron, dissolved	mg/L	MWII-5	11/02/2009	yes	0.0500	ND				
Iron, dissolved	mg/L	MWII-5	02/22/2010	yes	0.0500	ND				
Iron, dissolved	mg/L	MWII-5	08/23/2010	yes	0.0500	ND				
Iron, dissolved	mg/L	MWII-5	03/08/2011		0.0510			0.0597		
Iron, dissolved	mg/L	MWII-5	08/02/2011		0.0610			0.0597		
Iron, dissolved	mg/L	MWII-5	03/14/2012		0.0500	ND		0.0597		
Iron, dissolved	mg/L	MWII-5	08/27/2012		0.0520			0.0597		
Iron, dissolved	mg/L	MWII-5	02/24/2013		0.0500	ND		0.0597		

* - 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	
Iron, dissolved	mg/L	MWII-5	08/26/2013		0.0500	ND		0.0597		
Iron, dissolved	mg/L	MWII-5	02/24/2014		0.0500	ND		0.0597		
Iron, dissolved	mg/L	MWII-5	05/27/2014		0.0560			0.0597		
Iron, dissolved	mg/L	MWII-5	08/26/2014		0.0500	ND		0.0597		
Iron, dissolved	mg/L	MWII-5	11/11/2014		0.0660			0.0597		
Iron, dissolved	mg/L	MWII-5	02/23/2015		0.0500	ND		0.0597		
Iron, dissolved	mg/L	MWII-5	05/31/2015		0.0500	ND		0.0597		
Iron, dissolved	mg/L	MWII-5	06/01/2015		0.0500	ND		0.0597		
Iron, dissolved	mg/L	MWII-5	08/31/2015		0.0500	ND		0.0597		
Iron, dissolved	mg/L	MWII-5	11/09/2015		0.0500			0.0597		
Iron, dissolved	mg/L	MWII-5	03/17/2016		0.0500	ND		0.0597		
Iron, dissolved	mg/L	MWII-5	05/23/2016		0.0500	ND		0.0597		
Iron, dissolved	mg/L	MWII-5	08/15/2016		0.0500	ND		0.0597		
Iron, dissolved	mg/L	MWII-5	10/26/2016		0.0500	ND		0.0597		
Iron, dissolved	mg/L	MWII-5	02/14/2017		0.0500	ND		0.0597		
Iron, dissolved	mg/L	MWII-5	05/23/2017		0.0500	ND		0.0597		
Iron, dissolved	mg/L	MWII-5	08/15/2017		0.0500	ND		0.0597		
Iron, dissolved	mg/L	MWII-5	11/14/2017		0.0500	ND		0.0597		
Iron, dissolved	mg/L	MWII-5	02/13/2018		0.0500	ND		0.0597		
Iron, dissolved	mg/L	MWII-5	05/15/2018		0.0500	ND		0.0597		
Iron, dissolved	mg/L	MWII-5	08/14/2018		0.0500	ND		0.0597		
Iron, dissolved	mg/L	MWII-5	11/13/2018		0.0500	ND		0.0597		
Iron, dissolved	mg/L	MWII-5	02/19/2019		0.0500	ND		0.0597		
Iron, dissolved	mg/L	MWII-5	06/19/2019		0.0500	ND		0.0597		
Iron, dissolved	mg/L	MWII-5	08/27/2019		0.0500	ND		0.0597		
Iron, dissolved	mg/L	MWII-5	11/12/2019		0.0500	ND		0.0597		
Iron, dissolved	mg/L	MWII-5	02/26/2020		0.0500	ND		0.0597		
Iron, dissolved	mg/L	MWII-5	05/17/2020		0.0220	ND		0.0597		
Iron, dissolved	mg/L	MWII-5	07/19/2020		0.0330			0.0597		
Iron, dissolved	mg/L	MWII-5	10/26/2020		0.0220	ND		0.0597		
Iron, dissolved	mg/L	MWII-5	01/12/2021		0.0220	ND		0.0597		
Iron, dissolved	mg/L	MWII-5	04/13/2021		0.0220			0.0597		
Iron, dissolved	mg/L	MWII-5	07/26/2021		0.0500	ND		0.0597		
Iron, dissolved	mg/L	MWII-5	10/18/2021		0.0500	ND		0.0597		
Iron, dissolved	mg/L	MWII-5	03/27/2022		0.0500	ND		0.0597		
Iron, dissolved	mg/L	MWII-5	05/09/2022		0.0500	ND		0.0597		
Iron, dissolved	mg/L	MWII-5	08/23/2022		0.0500	ND		0.0597		
Iron, dissolved	mg/L	MWII-5	11/16/2022		0.0500	ND		0.0597		
Iron, dissolved	mg/L	MWII-5	02/07/2023		0.0500	ND		0.0597		
Iron, dissolved	mg/L	MWII-5	09/18/2023		0.0500	ND		0.0597		
Iron, dissolved	mg/L	MWII-5	11/13/2023		0.0500	ND		0.0597		
Iron, dissolved	mg/L	MWII-5	04/29/2024		0.0500	ND		0.0597		

* - 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	
Iron, dissolved	mg/L	MWII-5	07/23/2024		0.0500	ND		0.0597		
Iron, dissolved	mg/L	MWII-5	11/05/2024		0.0500	ND		0.0597		
Iron, dissolved	mg/L	MWII-5	02/02/2025		0.1000	ND		0.0597		
Iron, dissolved	mg/L	MWII-5	06/16/2025		0.1000	ND		0.0597		
Iron, dissolved	mg/L	MWII-5	08/18/2025		0.1000	ND		0.0597		
Iron, dissolved	mg/L	MWII-7	03/10/2009	yes	0.0500	ND				
Iron, dissolved	mg/L	MWII-7	05/18/2009	yes	0.0500	ND				
Iron, dissolved	mg/L	MWII-7	07/20/2009	yes	0.0500	ND				
Iron, dissolved	mg/L	MWII-7	11/02/2009	yes	0.0500	ND				
Iron, dissolved	mg/L	MWII-7	02/22/2010	yes	0.0500	ND				
Iron, dissolved	mg/L	MWII-7	06/01/2010	yes	0.0500	ND				
Iron, dissolved	mg/L	MWII-7	08/23/2010	yes	0.0500	ND				
Iron, dissolved	mg/L	MWII-7	11/16/2010	yes	0.0500	ND				
Iron, dissolved	mg/L	MWII-7	03/08/2011		0.0500	ND				
Iron, dissolved	mg/L	MWII-7	05/10/2011		0.0500	ND				
Iron, dissolved	mg/L	MWII-7	08/02/2011		0.0500	ND				
Iron, dissolved	mg/L	MWII-7	11/16/2011		0.0660					
Iron, dissolved	mg/L	MWII-7	03/14/2012		0.3500					
Iron, dissolved	mg/L	MWII-7	06/05/2012		0.1000	ND				
Iron, dissolved	mg/L	MWII-7	08/27/2012		0.1000	ND				
Iron, dissolved	mg/L	MWII-7	11/13/2012		0.9500					
Iron, dissolved	mg/L	MWII-7	02/24/2013		0.4800					
Iron, dissolved	mg/L	MWII-7	06/04/2013		0.0500	ND				
Iron, dissolved	mg/L	MWII-7	08/26/2013		0.0500	ND				
Iron, dissolved	mg/L	MWII-7	02/24/2014		0.0500	ND				
Iron, dissolved	mg/L	MWII-7	05/27/2014		0.1100					
Iron, dissolved	mg/L	MWII-7	08/26/2014		0.0500	ND				
Iron, dissolved	mg/L	MWII-7	11/11/2014		0.1100					
Iron, dissolved	mg/L	MWII-7	02/23/2015		0.5800					
Iron, dissolved	mg/L	MWII-7	05/31/2015		0.5000					
Iron, dissolved	mg/L	MWII-7	08/31/2015		0.6700					
Iron, dissolved	mg/L	MWII-7	11/09/2015		3.1000					
Iron, dissolved	mg/L	MWII-7	03/23/2016		3.2000					
Iron, dissolved	mg/L	MWII-7	05/23/2016		2.0000					
Iron, dissolved	mg/L	MWII-7	08/15/2016		3.5000					
Iron, dissolved	mg/L	MWII-7	10/26/2016		3.3000					
Iron, dissolved	mg/L	MWII-7	02/14/2017		0.5400					
Iron, dissolved	mg/L	MWII-7	05/23/2017		3.7000					
Iron, dissolved	mg/L	MWII-7	08/15/2017		3.7000					
Iron, dissolved	mg/L	MWII-7	11/14/2017		5.1000					
Iron, dissolved	mg/L	MWII-7	02/13/2018		3.3000					
Iron, dissolved	mg/L	MWII-7	05/15/2018		3.7000					

* - 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	
Iron, dissolved	mg/L	MWII-7	08/14/2018		3.6000					
Iron, dissolved	mg/L	MWII-7	11/13/2018		4.3000					
Iron, dissolved	mg/L	MWII-7	02/19/2019		3.7000					
Iron, dissolved	mg/L	MWII-7	06/19/2019		4.5000					
Iron, dissolved	mg/L	MWII-7	08/27/2019		4.4000					
Iron, dissolved	mg/L	MWII-7	11/13/2019		3.7000					
Iron, dissolved	mg/L	MWII-7	02/27/2020		3.7000					
Iron, dissolved	mg/L	MWII-7	05/17/2020		2.9000					
Iron, dissolved	mg/L	MWII-7	07/19/2020		2.7000					
Iron, dissolved	mg/L	MWII-7	10/26/2020		2.3000					
Iron, dissolved	mg/L	MWII-7	01/12/2021		1.6000					
Iron, dissolved	mg/L	MWII-7	04/13/2021		1.8000					
Iron, dissolved	mg/L	MWII-7	07/26/2021		2.1000					
Iron, dissolved	mg/L	MWII-7	10/18/2021		2.1000					
Iron, dissolved	mg/L	MWII-7	03/27/2022		1.9000					
Iron, dissolved	mg/L	MWII-7	05/09/2022		2.0000					
Iron, dissolved	mg/L	MWII-7	08/23/2022		2.0000					
Iron, dissolved	mg/L	MWII-7	11/16/2022		1.7000					
Iron, dissolved	mg/L	MWII-7	02/06/2023		2.0000					
Iron, dissolved	mg/L	MWII-7	05/14/2023		1.4000					
Iron, dissolved	mg/L	MWII-7	09/18/2023		1.2000					
Iron, dissolved	mg/L	MWII-7	11/14/2023		1.2000					
Iron, dissolved	mg/L	MWII-7	02/04/2024		1.2000					
Iron, dissolved	mg/L	MWII-7	04/29/2024		0.8700					
Iron, dissolved	mg/L	MWII-7	07/23/2024		0.6200					
Iron, dissolved	mg/L	MWII-7	11/05/2024		0.8000					
Iron, dissolved	mg/L	MWII-7	02/02/2025		0.5600					
Iron, dissolved	mg/L	MWII-7	06/16/2025		0.6800					
Iron, dissolved	mg/L	MWII-7	08/18/2025		0.8200					
Iron, total	mg/L	MWII-2	03/12/1996	yes	0.0320					
Iron, total	mg/L	MWII-2	05/14/1996	yes	0.1645					
Iron, total	mg/L	MWII-2	08/06/1996	yes	0.0600	ND				
Iron, total	mg/L	MWII-2	01/14/1997	yes	0.0600	ND				
Iron, total	mg/L	MWII-2	07/08/1997	yes	0.0600	ND				
Iron, total	mg/L	MWII-2	01/13/1998	yes	0.0600	ND				
Iron, total	mg/L	MWII-2	08/10/1998	yes	0.0600	ND				
Iron, total	mg/L	MWII-2	01/11/1999	yes	0.3400					
Iron, total	mg/L	MWII-2	07/12/1999	yes	0.0600	ND				
Iron, total	mg/L	MWII-2	01/10/2000	yes	0.0600	ND				
Iron, total	mg/L	MWII-2	07/10/2000	yes	0.0600	ND				
Iron, total	mg/L	MWII-2	01/29/2001	yes	0.0600	ND				
Iron, total	mg/L	MWII-2	08/06/2001	yes	0.0600	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	
Iron, total	mg/L	MWII-2	01/29/2002	yes	0.0600	ND				
Iron, total	mg/L	MWII-2	08/05/2002	yes	0.0600	ND				
Iron, total	mg/L	MWII-2	01/28/2003	yes	0.4800					
Iron, total	mg/L	MWII-2	08/04/2003	yes	0.0600	ND				
Iron, total	mg/L	MWII-2	01/27/2004	yes	0.0600	ND				
Iron, total	mg/L	MWII-2	01/23/2006	yes	0.2500					
Iron, total	mg/L	MWII-2	07/25/2006	yes	0.0500	ND			0.0600	***
Iron, total	mg/L	MWII-2	02/05/2007	yes	0.3000					
Iron, total	mg/L	MWII-2	10/16/2007	yes	0.0500	ND			0.0600	***
Iron, total	mg/L	MWII-2	06/10/2008	yes	0.0640					
Iron, total	mg/L	MWII-2	07/29/2008	yes	0.3300					
Iron, total	mg/L	MWII-2	11/10/2008	yes	0.0500	ND			0.0600	***
Iron, total	mg/L	MWII-2	03/10/2009	yes	0.0500	ND			0.0600	***
Iron, total	mg/L	MWII-2	05/18/2009	yes	0.0500	ND			0.0600	***
Iron, total	mg/L	MWII-2	07/20/2009	yes	0.0500	ND			0.0600	***
Iron, total	mg/L	MWII-2	11/02/2009	yes	0.0500	ND			0.0600	***
Iron, total	mg/L	MWII-2	02/22/2010	yes	0.0500	ND			0.0600	***
Iron, total	mg/L	MWII-2	02/24/2013		0.0500	ND		0.1094		
Iron, total	mg/L	MWII-2	08/26/2013		0.0500	ND		0.1094		
Iron, total	mg/L	MWII-2	02/24/2014		0.0500	ND		0.1094		
Iron, total	mg/L	MWII-2	05/27/2014		0.0500	ND		0.1094		
Iron, total	mg/L	MWII-2	08/26/2014		0.0500	ND		0.1094		
Iron, total	mg/L	MWII-2	11/11/2014		0.0500	ND		0.1094		
Iron, total	mg/L	MWII-2	02/23/2015		0.0600			0.1094		
Iron, total	mg/L	MWII-2	05/31/2015		0.1200			0.1094		
Iron, total	mg/L	MWII-2	08/31/2015		0.0840			0.1094		
Iron, total	mg/L	MWII-2	11/09/2015		0.0500	ND		0.1094		
Iron, total	mg/L	MWII-2	03/23/2016		0.0500	ND		0.1094		
Iron, total	mg/L	MWII-2	05/23/2016		0.0500	ND		0.1094		
Iron, total	mg/L	MWII-2	08/15/2016		0.0500	ND		0.1094		
Iron, total	mg/L	MWII-2	10/26/2016		0.0650			0.1094		
Iron, total	mg/L	MWII-2	02/14/2017		0.0500	ND		0.1094		
Iron, total	mg/L	MWII-2	05/23/2017		0.0500	ND		0.1094		
Iron, total	mg/L	MWII-2	08/15/2017		0.0500	ND		0.1094		
Iron, total	mg/L	MWII-2	11/14/2017		0.0500	ND		0.1094		
Iron, total	mg/L	MWII-2	02/13/2018		0.0500	ND		0.1094		
Iron, total	mg/L	MWII-2	05/15/2018		0.0570			0.1094		
Iron, total	mg/L	MWII-2	08/14/2018		0.0500	ND		0.1094		
Iron, total	mg/L	MWII-2	11/13/2018		0.0670			0.1094		
Iron, total	mg/L	MWII-2	02/19/2019		0.0500	ND		0.1094		
Iron, total	mg/L	MWII-2	06/19/2019		0.0500	ND		0.1094		
Iron, total	mg/L	MWII-2	08/27/2019		0.0500	ND		0.1094		

* - 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	
Iron, total	mg/L	MWII-2	11/13/2019		0.0500	ND		0.1094		
Iron, total	mg/L	MWII-2	02/27/2020		0.0500	ND		0.1094		
Iron, total	mg/L	MWII-2	05/17/2020		0.0220	ND		0.1094		
Iron, total	mg/L	MWII-2	07/19/2020		0.0220	ND		0.1094		
Iron, total	mg/L	MWII-2	10/26/2020		0.0220	ND		0.1094		
Iron, total	mg/L	MWII-2	01/12/2021		0.0220	ND		0.1094		
Iron, total	mg/L	MWII-2	04/13/2021		0.0220	ND		0.1094		
Iron, total	mg/L	MWII-2	07/26/2021		0.2500			0.1664		
Iron, total	mg/L	MWII-2	10/19/2021		0.1200			0.1094		
Iron, total	mg/L	MWII-2	03/27/2022		0.0500	ND		0.1094		
Iron, total	mg/L	MWII-2	05/09/2022		0.0500	ND		0.1094		
Iron, total	mg/L	MWII-2	08/23/2022		0.0500	ND		0.1094		
Iron, total	mg/L	MWII-2	11/16/2022		0.0500	ND		0.1094		
Iron, total	mg/L	MWII-2	02/06/2023		0.0500	ND		0.1094		
Iron, total	mg/L	MWII-2	05/14/2023		0.0500	ND		0.1094		
Iron, total	mg/L	MWII-2	09/18/2023		0.0500	ND		0.1094		
Iron, total	mg/L	MWII-2	11/14/2023		0.0500	ND		0.1094		
Iron, total	mg/L	MWII-2	02/04/2024		0.0500	ND		0.1094		
Iron, total	mg/L	MWII-2	04/29/2024		0.0500	ND		0.1094		
Iron, total	mg/L	MWII-2	07/23/2024		0.0500	ND		0.1094		
Iron, total	mg/L	MWII-2	11/05/2024		0.0500	ND		0.1094		
Iron, total	mg/L	MWII-2	02/02/2025		0.1000	ND		0.1094		
Iron, total	mg/L	MWII-2	06/16/2025		0.2400			0.1564		
Iron, total	mg/L	MWII-2	08/18/2025		0.1000	ND		0.1094		
Iron, total	mg/L	MWII-5	03/12/1996	yes	0.0240					
Iron, total	mg/L	MWII-5	05/14/1996	yes	0.1730					
Iron, total	mg/L	MWII-5	08/06/1996	yes	0.0600	ND			0.0500	***
Iron, total	mg/L	MWII-5	01/14/1997	yes	0.0600	ND			0.0500	***
Iron, total	mg/L	MWII-5	01/13/1998	yes	0.0600	ND			0.0500	***
Iron, total	mg/L	MWII-5	01/11/1999	yes	0.3200		yes			*
Iron, total	mg/L	MWII-5	01/10/2000	yes	0.0600	ND			0.0500	***
Iron, total	mg/L	MWII-5	07/10/2000	yes	0.0600	ND			0.0500	***
Iron, total	mg/L	MWII-5	01/29/2001	yes	0.0600	ND			0.0500	***
Iron, total	mg/L	MWII-5	01/29/2002	yes	0.0600	ND			0.0500	***
Iron, total	mg/L	MWII-5	01/28/2003	yes	0.1000					
Iron, total	mg/L	MWII-5	01/27/2004	yes	0.0990					
Iron, total	mg/L	MWII-5	01/23/2006	yes	0.0810					
Iron, total	mg/L	MWII-5	07/26/2006	yes	0.0650					
Iron, total	mg/L	MWII-5	02/05/2007	yes	0.0500	ND				
Iron, total	mg/L	MWII-5	10/16/2007	yes	0.0790					
Iron, total	mg/L	MWII-5	06/10/2008	yes	0.0600					
Iron, total	mg/L	MWII-5	07/29/2008	yes	0.0820					

* - 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	
Iron, total	mg/L	MWII-5	11/10/2008	yes	0.0500	ND				
Iron, total	mg/L	MWII-5	03/09/2009	yes	0.0500	ND				
Iron, total	mg/L	MWII-5	05/18/2009	yes	0.0500	ND				
Iron, total	mg/L	MWII-5	07/20/2009	yes	0.0500	ND				
Iron, total	mg/L	MWII-5	11/02/2009	yes	0.0500	ND				
Iron, total	mg/L	MWII-5	02/22/2010	yes	0.0500	ND				
Iron, total	mg/L	MWII-5	02/24/2013		0.0500	ND		0.0636		
Iron, total	mg/L	MWII-5	08/26/2013		0.0500	ND		0.0636		
Iron, total	mg/L	MWII-5	02/24/2014		0.1900			0.1676		**
Iron, total	mg/L	MWII-5	05/27/2014		0.0500	ND		0.0816		
Iron, total	mg/L	MWII-5	08/26/2014		0.0500	ND		0.0636		
Iron, total	mg/L	MWII-5	11/11/2014		0.0780			0.0636		
Iron, total	mg/L	MWII-5	02/23/2015		0.0500	ND		0.0636		
Iron, total	mg/L	MWII-5	05/31/2015		0.0500	ND		0.0636		
Iron, total	mg/L	MWII-5	08/31/2015		0.0500	ND		0.0636		
Iron, total	mg/L	MWII-5	11/09/2015		0.0620			0.0636		
Iron, total	mg/L	MWII-5	03/17/2016		0.0730			0.0636		
Iron, total	mg/L	MWII-5	05/23/2016		0.1900			0.1676		**
Iron, total	mg/L	MWII-5	08/15/2016		0.0500	ND		0.0816		
Iron, total	mg/L	MWII-5	10/26/2016		0.0500	ND		0.0636		
Iron, total	mg/L	MWII-5	02/14/2017		0.0500	ND		0.0636		
Iron, total	mg/L	MWII-5	05/23/2017		0.0870			0.0646		
Iron, total	mg/L	MWII-5	08/15/2017		0.0500	ND		0.0636		
Iron, total	mg/L	MWII-5	11/14/2017		0.0780			0.0636		
Iron, total	mg/L	MWII-5	02/13/2018		0.0500	ND		0.0636		
Iron, total	mg/L	MWII-5	05/15/2018		0.0580			0.0636		
Iron, total	mg/L	MWII-5	08/14/2018		0.0500	ND		0.0636		
Iron, total	mg/L	MWII-5	11/13/2018		0.0500	ND		0.0636		
Iron, total	mg/L	MWII-5	02/19/2019		0.0500	ND		0.0636		
Iron, total	mg/L	MWII-5	06/19/2019		0.1200			0.0976		
Iron, total	mg/L	MWII-5	08/27/2019		0.0500	ND		0.0636		
Iron, total	mg/L	MWII-5	11/12/2019		0.0880			0.0656		
Iron, total	mg/L	MWII-5	02/26/2020		0.0710			0.0636		
Iron, total	mg/L	MWII-5	05/17/2020		0.0390			0.0636		
Iron, total	mg/L	MWII-5	07/19/2020		0.0290			0.0636		
Iron, total	mg/L	MWII-5	10/26/2020		0.0220	ND		0.0636		
Iron, total	mg/L	MWII-5	01/12/2021		0.0220	ND		0.0636		
Iron, total	mg/L	MWII-5	04/13/2021		0.0220	ND		0.0636		
Iron, total	mg/L	MWII-5	07/26/2021		0.0520			0.0636		
Iron, total	mg/L	MWII-5	10/18/2021		0.0500	ND		0.0636		
Iron, total	mg/L	MWII-5	03/27/2022		0.0500	ND		0.0636		
Iron, total	mg/L	MWII-5	05/09/2022		0.0500	ND		0.0636		

* - 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	
Iron, total	mg/L	MWII-5	08/23/2022		0.0500	ND		0.0636		
Iron, total	mg/L	MWII-5	11/16/2022		0.0500	ND		0.0636		
Iron, total	mg/L	MWII-5	02/07/2023		0.0500	ND		0.0636		
Iron, total	mg/L	MWII-5	05/14/2023		0.0500	ND		0.0636		
Iron, total	mg/L	MWII-5	09/18/2023		0.0500	ND		0.0636		
Iron, total	mg/L	MWII-5	11/13/2023		0.0500	ND		0.0636		
Iron, total	mg/L	MWII-5	02/04/2024		0.0500	ND		0.0636		
Iron, total	mg/L	MWII-5	04/29/2024		0.1300			0.1076		
Iron, total	mg/L	MWII-5	07/23/2024		0.0500	ND		0.0636		
Iron, total	mg/L	MWII-5	11/05/2024		0.0500	ND		0.0636		
Iron, total	mg/L	MWII-5	02/02/2025		0.1000	ND		0.0636		
Iron, total	mg/L	MWII-5	06/16/2025		0.1000	ND		0.0636		
Iron, total	mg/L	MWII-5	08/18/2025		0.1000	ND		0.0636		
Iron, total	mg/L	MWII-7	03/10/2009	yes	0.0500	ND				
Iron, total	mg/L	MWII-7	05/18/2009	yes	0.0500	ND				
Iron, total	mg/L	MWII-7	07/20/2009	yes	0.0500	ND				
Iron, total	mg/L	MWII-7	11/02/2009	yes	0.0500	ND				
Iron, total	mg/L	MWII-7	02/22/2010	yes	0.0300					
Iron, total	mg/L	MWII-7	06/05/2012		0.1000	ND				
Iron, total	mg/L	MWII-7	08/27/2012		0.1000	ND				
Iron, total	mg/L	MWII-7	11/13/2012		0.8600					
Iron, total	mg/L	MWII-7	02/24/2013		0.3600					
Iron, total	mg/L	MWII-7	06/04/2013		0.0500	ND				
Iron, total	mg/L	MWII-7	08/26/2013		0.0560					
Iron, total	mg/L	MWII-7	02/24/2014		0.1700					
Iron, total	mg/L	MWII-7	05/27/2014		1.6000					
Iron, total	mg/L	MWII-7	08/26/2014		0.0500	ND				
Iron, total	mg/L	MWII-7	11/11/2014		0.1600					
Iron, total	mg/L	MWII-7	02/23/2015		1.2000					
Iron, total	mg/L	MWII-7	05/31/2015		0.7000					
Iron, total	mg/L	MWII-7	08/31/2015		1.7000					
Iron, total	mg/L	MWII-7	11/09/2015		4.5000					
Iron, total	mg/L	MWII-7	03/23/2016		14.0000					
Iron, total	mg/L	MWII-7	05/23/2016		5.0000					
Iron, total	mg/L	MWII-7	08/15/2016		4.0000					
Iron, total	mg/L	MWII-7	10/26/2016		4.0000					
Iron, total	mg/L	MWII-7	02/14/2017		16.0000					
Iron, total	mg/L	MWII-7	05/23/2017		4.0000					
Iron, total	mg/L	MWII-7	08/15/2017		4.3000					
Iron, total	mg/L	MWII-7	11/14/2017		8.8000					
Iron, total	mg/L	MWII-7	02/13/2018		3.6000					
Iron, total	mg/L	MWII-7	05/15/2018		5.0000					

* - Outlier for that well and constituent.

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

*** - ND value replaced with median RL.

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

ND = Not detected, Result = detection limit.

Table 2

Analytical Data and CUSUM Summary

Constituent	Units	Well	Date	Background	Result		Outlier	CUSUM	Adjusted	
Iron, total	mg/L	MWII-7	08/14/2018		4.3000					
Iron, total	mg/L	MWII-7	11/13/2018		4.6000					
Iron, total	mg/L	MWII-7	02/19/2019		4.0000					
Iron, total	mg/L	MWII-7	06/19/2019		9.6000					
Iron, total	mg/L	MWII-7	08/27/2019		6.9000					
Iron, total	mg/L	MWII-7	11/13/2019		5.4000					
Iron, total	mg/L	MWII-7	02/27/2020		5.7000					
Iron, total	mg/L	MWII-7	05/17/2020		3.4000					
Iron, total	mg/L	MWII-7	07/19/2020		3.1000					
Iron, total	mg/L	MWII-7	10/26/2020		3.1000					
Iron, total	mg/L	MWII-7	01/12/2021		2.2000					
Iron, total	mg/L	MWII-7	04/13/2021		2.5000					
Iron, total	mg/L	MWII-7	07/26/2021		2.8000					
Iron, total	mg/L	MWII-7	10/18/2021		2.5000					
Iron, total	mg/L	MWII-7	03/27/2022		2.1000					
Iron, total	mg/L	MWII-7	05/09/2022		2.1000					
Iron, total	mg/L	MWII-7	08/23/2022		2.2000					
Iron, total	mg/L	MWII-7	11/16/2022		2.5000					
Iron, total	mg/L	MWII-7	02/06/2023		2.0000					
Iron, total	mg/L	MWII-7	05/14/2023		1.9000					
Iron, total	mg/L	MWII-7	09/18/2023		1.3000					
Iron, total	mg/L	MWII-7	11/14/2023		1.7000					
Iron, total	mg/L	MWII-7	02/04/2024		1.6000					
Iron, total	mg/L	MWII-7	04/29/2024		1.2000					
Iron, total	mg/L	MWII-7	07/23/2024		0.9900					
Iron, total	mg/L	MWII-7	11/05/2024		1.1000					
Iron, total	mg/L	MWII-7	02/02/2025		0.9100					
Iron, total	mg/L	MWII-7	06/16/2025		0.9300					
Iron, total	mg/L	MWII-7	08/18/2025		0.9400					
Manganese, dissolved	mg/L	MWII-2	07/25/2006	yes	0.0100	ND				
Manganese, dissolved	mg/L	MWII-2	02/05/2007	yes	0.0100	ND				
Manganese, dissolved	mg/L	MWII-2	10/16/2007	yes	0.0100	ND				
Manganese, dissolved	mg/L	MWII-2	03/11/2008	yes	0.0100	ND				
Manganese, dissolved	mg/L	MWII-2	06/10/2008	yes	0.0100	ND				
Manganese, dissolved	mg/L	MWII-2	07/29/2008	yes	0.0100	ND				
Manganese, dissolved	mg/L	MWII-2	11/10/2008	yes	0.0100	ND				
Manganese, dissolved	mg/L	MWII-2	03/10/2009	yes	0.0100	ND				
Manganese, dissolved	mg/L	MWII-2	05/18/2009	yes	0.0100	ND				
Manganese, dissolved	mg/L	MWII-2	07/20/2009	yes	0.0100	ND				
Manganese, dissolved	mg/L	MWII-2	11/02/2009	yes	0.0100	ND				
Manganese, dissolved	mg/L	MWII-2	02/22/2010	yes	0.0040					
Manganese, dissolved	mg/L	MWII-2	08/23/2010	yes	0.0140					

* - 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	
Manganese, dissolved	mg/L	MWII-2	03/08/2011		0.0100	ND				
Manganese, dissolved	mg/L	MWII-2	08/02/2011		0.0100	ND				
Manganese, dissolved	mg/L	MWII-2	03/14/2012		0.0100	ND				
Manganese, dissolved	mg/L	MWII-2	08/27/2012		0.0100	ND				
Manganese, dissolved	mg/L	MWII-2	02/24/2013		0.0100	ND				
Manganese, dissolved	mg/L	MWII-2	08/26/2013		0.0100	ND				
Manganese, dissolved	mg/L	MWII-2	02/24/2014		0.0100					
Manganese, dissolved	mg/L	MWII-2	05/27/2014		0.0100	ND				
Manganese, dissolved	mg/L	MWII-2	08/26/2014		0.0100	ND				
Manganese, dissolved	mg/L	MWII-2	11/11/2014		0.0100	ND				
Manganese, dissolved	mg/L	MWII-2	02/23/2015		0.0100	ND				
Manganese, dissolved	mg/L	MWII-2	05/31/2015		0.0100	ND				
Manganese, dissolved	mg/L	MWII-2	08/31/2015		0.0100	ND				
Manganese, dissolved	mg/L	MWII-2	11/09/2015		0.0100	ND				
Manganese, dissolved	mg/L	MWII-2	03/23/2016		0.0100	ND				
Manganese, dissolved	mg/L	MWII-2	05/23/2016		0.0100	ND				
Manganese, dissolved	mg/L	MWII-2	08/15/2016		0.0100	ND				
Manganese, dissolved	mg/L	MWII-2	10/26/2016		0.0100	ND				
Manganese, dissolved	mg/L	MWII-2	02/14/2017		0.0100	ND				
Manganese, dissolved	mg/L	MWII-2	05/23/2017		0.0100	ND				
Manganese, dissolved	mg/L	MWII-2	08/15/2017		0.0100	ND				
Manganese, dissolved	mg/L	MWII-2	11/14/2017		0.0100	ND				
Manganese, dissolved	mg/L	MWII-2	02/13/2018		0.0100	ND				
Manganese, dissolved	mg/L	MWII-2	05/15/2018		0.0100	ND				
Manganese, dissolved	mg/L	MWII-2	08/14/2018		0.0100	ND				
Manganese, dissolved	mg/L	MWII-2	11/13/2018		0.0100	ND				
Manganese, dissolved	mg/L	MWII-2	02/19/2019		0.0100	ND				
Manganese, dissolved	mg/L	MWII-2	06/19/2019		0.0100	ND				
Manganese, dissolved	mg/L	MWII-2	08/27/2019		0.0100	ND				
Manganese, dissolved	mg/L	MWII-2	11/13/2019		0.0100	ND				
Manganese, dissolved	mg/L	MWII-2	02/27/2020		0.0026					
Manganese, dissolved	mg/L	MWII-2	05/17/2020		0.0019	ND				
Manganese, dissolved	mg/L	MWII-2	07/19/2020		0.0030					
Manganese, dissolved	mg/L	MWII-2	10/26/2020		0.0020					
Manganese, dissolved	mg/L	MWII-2	01/12/2021		0.0019	ND				
Manganese, dissolved	mg/L	MWII-2	04/13/2021		0.0019	ND				
Manganese, dissolved	mg/L	MWII-2	07/26/2021		0.0100	ND				
Manganese, dissolved	mg/L	MWII-2	10/19/2021		0.0100	ND				
Manganese, dissolved	mg/L	MWII-2	03/27/2022		0.0100	ND				
Manganese, dissolved	mg/L	MWII-2	05/09/2022		0.0100	ND				
Manganese, dissolved	mg/L	MWII-2	08/23/2022		0.0100	ND				
Manganese, dissolved	mg/L	MWII-2	11/16/2022		0.0100	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	
Manganese, dissolved	mg/L	MWII-2	02/06/2023		0.0100	ND				
Manganese, dissolved	mg/L	MWII-2	05/14/2023		0.0100	ND				
Manganese, dissolved	mg/L	MWII-2	09/18/2023		0.0100	ND				
Manganese, dissolved	mg/L	MWII-2	11/14/2023		0.0100	ND				
Manganese, dissolved	mg/L	MWII-2	02/04/2024		0.0100	ND				
Manganese, dissolved	mg/L	MWII-2	04/29/2024		0.0100	ND				
Manganese, dissolved	mg/L	MWII-2	07/23/2024		0.0100	ND				
Manganese, dissolved	mg/L	MWII-2	11/05/2024		0.0100	ND				
Manganese, dissolved	mg/L	MWII-2	02/02/2025		0.0100	ND				
Manganese, dissolved	mg/L	MWII-2	06/16/2025		0.0100	ND				
Manganese, dissolved	mg/L	MWII-2	08/18/2025		0.0100	ND				
Manganese, dissolved	mg/L	MWII-5	07/26/2006	yes	0.0100	ND				
Manganese, dissolved	mg/L	MWII-5	02/05/2007	yes	0.0100	ND				
Manganese, dissolved	mg/L	MWII-5	10/16/2007	yes	0.0100	ND				
Manganese, dissolved	mg/L	MWII-5	03/11/2008	yes	0.0100	ND				
Manganese, dissolved	mg/L	MWII-5	06/10/2008	yes	0.0100	ND				
Manganese, dissolved	mg/L	MWII-5	07/29/2008	yes	0.0100	ND				
Manganese, dissolved	mg/L	MWII-5	11/10/2008	yes	0.0100	ND				
Manganese, dissolved	mg/L	MWII-5	03/09/2009	yes	0.0110	ND				
Manganese, dissolved	mg/L	MWII-5	05/18/2009	yes	0.0100	ND				
Manganese, dissolved	mg/L	MWII-5	07/20/2009	yes	0.0100	ND				
Manganese, dissolved	mg/L	MWII-5	11/02/2009	yes	0.0100	ND				
Manganese, dissolved	mg/L	MWII-5	02/22/2010	yes	0.0080	ND				
Manganese, dissolved	mg/L	MWII-5	08/23/2010	yes	0.0100	ND				
Manganese, dissolved	mg/L	MWII-5	03/08/2011		0.0100	ND				
Manganese, dissolved	mg/L	MWII-5	08/02/2011		0.0100	ND				
Manganese, dissolved	mg/L	MWII-5	03/14/2012		0.0100	ND				
Manganese, dissolved	mg/L	MWII-5	08/27/2012		0.0100	ND				
Manganese, dissolved	mg/L	MWII-5	02/24/2013		0.0100	ND				
Manganese, dissolved	mg/L	MWII-5	08/26/2013		0.0100	ND				
Manganese, dissolved	mg/L	MWII-5	02/24/2014		0.0100	ND				
Manganese, dissolved	mg/L	MWII-5	05/27/2014		0.0100	ND				
Manganese, dissolved	mg/L	MWII-5	08/26/2014		0.0100	ND				
Manganese, dissolved	mg/L	MWII-5	11/11/2014		0.0100	ND				
Manganese, dissolved	mg/L	MWII-5	02/23/2015		0.0100	ND				
Manganese, dissolved	mg/L	MWII-5	05/31/2015		0.0100	ND				
Manganese, dissolved	mg/L	MWII-5	06/01/2015		0.0100	ND				
Manganese, dissolved	mg/L	MWII-5	08/31/2015		0.0100	ND				
Manganese, dissolved	mg/L	MWII-5	11/09/2015		0.0100	ND				
Manganese, dissolved	mg/L	MWII-5	03/17/2016		0.0100	ND				
Manganese, dissolved	mg/L	MWII-5	05/23/2016		0.0100	ND				
Manganese, dissolved	mg/L	MWII-5	08/15/2016		0.0100	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	
Manganese, dissolved	mg/L	MWII-5	10/26/2016		0.0100	ND			
Manganese, dissolved	mg/L	MWII-5	02/14/2017		0.0100	ND			
Manganese, dissolved	mg/L	MWII-5	05/23/2017		0.0100	ND			
Manganese, dissolved	mg/L	MWII-5	08/15/2017		0.0100	ND			
Manganese, dissolved	mg/L	MWII-5	11/14/2017		0.0100	ND			
Manganese, dissolved	mg/L	MWII-5	02/13/2018		0.0100	ND			
Manganese, dissolved	mg/L	MWII-5	05/15/2018		0.0100	ND			
Manganese, dissolved	mg/L	MWII-5	08/14/2018		0.0100	ND			
Manganese, dissolved	mg/L	MWII-5	11/13/2018		0.0100	ND			
Manganese, dissolved	mg/L	MWII-5	02/19/2019		0.0100	ND			
Manganese, dissolved	mg/L	MWII-5	06/19/2019		0.0100	ND			
Manganese, dissolved	mg/L	MWII-5	08/27/2019		0.0100	ND			
Manganese, dissolved	mg/L	MWII-5	11/12/2019		0.0100	ND			
Manganese, dissolved	mg/L	MWII-5	02/26/2020		0.0040				
Manganese, dissolved	mg/L	MWII-5	05/17/2020		0.0066				
Manganese, dissolved	mg/L	MWII-5	07/19/2020		0.0071				
Manganese, dissolved	mg/L	MWII-5	10/26/2020		0.0049				
Manganese, dissolved	mg/L	MWII-5	01/12/2021		0.0051				
Manganese, dissolved	mg/L	MWII-5	04/13/2021		0.0041				
Manganese, dissolved	mg/L	MWII-5	07/26/2021		0.0100	ND			
Manganese, dissolved	mg/L	MWII-5	10/18/2021		0.0100	ND			
Manganese, dissolved	mg/L	MWII-5	03/27/2022		0.0100	ND			
Manganese, dissolved	mg/L	MWII-5	05/09/2022		0.0100	ND			
Manganese, dissolved	mg/L	MWII-5	08/23/2022		0.0100	ND			
Manganese, dissolved	mg/L	MWII-5	11/16/2022		0.0100	ND			
Manganese, dissolved	mg/L	MWII-5	02/07/2023		0.0100	ND			
Manganese, dissolved	mg/L	MWII-5	05/14/2023		0.0100	ND			
Manganese, dissolved	mg/L	MWII-5	09/18/2023		0.0100	ND			
Manganese, dissolved	mg/L	MWII-5	11/13/2023		0.0100	ND			
Manganese, dissolved	mg/L	MWII-5	02/04/2024		0.0100	ND			
Manganese, dissolved	mg/L	MWII-5	04/29/2024		0.0100	ND			
Manganese, dissolved	mg/L	MWII-5	07/23/2024		0.0100	ND			
Manganese, dissolved	mg/L	MWII-5	11/05/2024		0.0100	ND			
Manganese, dissolved	mg/L	MWII-5	02/02/2025		0.0100	ND			
Manganese, dissolved	mg/L	MWII-5	06/16/2025		0.0100	ND			
Manganese, dissolved	mg/L	MWII-5	08/18/2025		0.0100	ND			
Manganese, dissolved	mg/L	MWII-7	03/10/2009	yes	0.0100	ND			
Manganese, dissolved	mg/L	MWII-7	05/18/2009	yes	0.0100	ND			
Manganese, dissolved	mg/L	MWII-7	07/20/2009	yes	0.0100	ND			
Manganese, dissolved	mg/L	MWII-7	11/02/2009	yes	0.0140				
Manganese, dissolved	mg/L	MWII-7	02/22/2010	yes	0.0088				
Manganese, dissolved	mg/L	MWII-7	06/01/2010	yes	0.0120				

* - 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	
Manganese, dissolved	mg/L	MWII-7	08/23/2010	yes	0.0110					
Manganese, dissolved	mg/L	MWII-7	11/16/2010	yes	0.0100	ND				
Manganese, dissolved	mg/L	MWII-7	03/08/2011		0.0100	ND		0.0107		
Manganese, dissolved	mg/L	MWII-7	05/10/2011		0.0100	ND		0.0107		
Manganese, dissolved	mg/L	MWII-7	08/02/2011		0.0110			0.0107		
Manganese, dissolved	mg/L	MWII-7	11/16/2011		0.0270			0.0254		**
Manganese, dissolved	mg/L	MWII-7	03/14/2012		0.0200			0.0184		**
Manganese, dissolved	mg/L	MWII-7	06/05/2012		0.0100	ND		0.0107		
Manganese, dissolved	mg/L	MWII-7	08/27/2012		0.0100	ND		0.0107		
Manganese, dissolved	mg/L	MWII-7	11/13/2012		0.0240			0.0224		**
Manganese, dissolved	mg/L	MWII-7	02/24/2013		0.0330			0.0314		**
Manganese, dissolved	mg/L	MWII-7	06/04/2013		0.0100	ND		0.0107		
Manganese, dissolved	mg/L	MWII-7	08/26/2013		0.0100	ND		0.0107		
Manganese, dissolved	mg/L	MWII-7	02/24/2014		0.0100	ND		0.0107		
Manganese, dissolved	mg/L	MWII-7	05/27/2014		0.0100	ND		0.0107		
Manganese, dissolved	mg/L	MWII-7	08/26/2014		0.0100	ND		0.0107		
Manganese, dissolved	mg/L	MWII-7	11/11/2014		0.0120			0.0107		
Manganese, dissolved	mg/L	MWII-7	02/23/2015		0.0220			0.0204		**
Manganese, dissolved	mg/L	MWII-7	05/31/2015		0.0250			0.0234		**
Manganese, dissolved	mg/L	MWII-7	08/31/2015		1.4000			1.3984		**
Manganese, dissolved	mg/L	MWII-7	11/09/2015		1.0000			0.9984		**
Manganese, dissolved	mg/L	MWII-7	03/23/2016		1.1000			1.0984		**
Manganese, dissolved	mg/L	MWII-7	05/23/2016		1.4000			1.3984		**
Manganese, dissolved	mg/L	MWII-7	08/15/2016		1.2000			1.1984		**
Manganese, dissolved	mg/L	MWII-7	10/26/2016		0.9500			0.9484		**
Manganese, dissolved	mg/L	MWII-7	02/14/2017		0.5300			0.5284		**
Manganese, dissolved	mg/L	MWII-7	05/23/2017		1.7000			1.6984		**
Manganese, dissolved	mg/L	MWII-7	08/15/2017		1.3000			1.2984		**
Manganese, dissolved	mg/L	MWII-7	11/14/2017		1.3000			1.2984		**
Manganese, dissolved	mg/L	MWII-7	02/13/2018		1.5000			1.4984		**
Manganese, dissolved	mg/L	MWII-7	05/15/2018		1.4000			1.3984		**
Manganese, dissolved	mg/L	MWII-7	08/14/2018		1.3000			1.2984		**
Manganese, dissolved	mg/L	MWII-7	11/13/2018		1.5000			1.4984		**
Manganese, dissolved	mg/L	MWII-7	02/19/2019		1.0000			0.9984		**
Manganese, dissolved	mg/L	MWII-7	06/19/2019		1.1000			1.0984		**
Manganese, dissolved	mg/L	MWII-7	08/27/2019		0.9900			0.9884		**
Manganese, dissolved	mg/L	MWII-7	11/13/2019		0.7600			0.7584		**
Manganese, dissolved	mg/L	MWII-7	02/27/2020		0.7600			0.7584		**
Manganese, dissolved	mg/L	MWII-7	05/17/2020		0.5800			0.5784		**
Manganese, dissolved	mg/L	MWII-7	07/19/2020		0.4100			0.4084		**
Manganese, dissolved	mg/L	MWII-7	10/26/2020		0.5300			0.5284		**
Manganese, dissolved	mg/L	MWII-7	01/12/2021		0.3200			0.3184		**

* - 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	
Manganese, dissolved	mg/L	MWII-7	04/13/2021		0.3600			0.3584		**
Manganese, dissolved	mg/L	MWII-7	07/26/2021		0.3900			0.3884		**
Manganese, dissolved	mg/L	MWII-7	10/18/2021		0.3800			0.3784		**
Manganese, dissolved	mg/L	MWII-7	03/27/2022		0.2500			0.2484		**
Manganese, dissolved	mg/L	MWII-7	05/09/2022		0.2700			0.2684		**
Manganese, dissolved	mg/L	MWII-7	08/23/2022		0.2600			0.2584		**
Manganese, dissolved	mg/L	MWII-7	11/16/2022		0.2300			0.2284		**
Manganese, dissolved	mg/L	MWII-7	02/06/2023		0.3000			0.2984		**
Manganese, dissolved	mg/L	MWII-7	05/14/2023		0.2700			0.2684		**
Manganese, dissolved	mg/L	MWII-7	09/18/2023		0.2400			0.2384		**
Manganese, dissolved	mg/L	MWII-7	11/14/2023		0.3500			0.3484		**
Manganese, dissolved	mg/L	MWII-7	02/04/2024		0.2800			0.2784		**
Manganese, dissolved	mg/L	MWII-7	04/29/2024		1.2000			1.1984		**
Manganese, dissolved	mg/L	MWII-7	07/23/2024		0.6000			0.5984		**
Manganese, dissolved	mg/L	MWII-7	11/05/2024		0.4800			0.4784		**
Manganese, dissolved	mg/L	MWII-7	02/02/2025		0.4100			0.4084		**
Manganese, dissolved	mg/L	MWII-7	06/16/2025		0.3600			0.3584		**
Manganese, dissolved	mg/L	MWII-7	08/18/2025		0.3300			0.3284		**
Manganese, total	mg/L	MWII-2	07/25/2006	yes	0.0100	ND				
Manganese, total	mg/L	MWII-2	02/05/2007	yes	0.0100	ND				
Manganese, total	mg/L	MWII-2	10/16/2007	yes	0.0100	ND				
Manganese, total	mg/L	MWII-2	06/10/2008	yes	0.0100	ND				
Manganese, total	mg/L	MWII-2	07/29/2008	yes	0.0130					
Manganese, total	mg/L	MWII-2	11/10/2008	yes	0.0100	ND				
Manganese, total	mg/L	MWII-2	03/10/2009	yes	0.0100	ND				
Manganese, total	mg/L	MWII-2	05/18/2009	yes	0.0100	ND				
Manganese, total	mg/L	MWII-2	07/20/2009	yes	0.0100	ND				
Manganese, total	mg/L	MWII-2	11/02/2009	yes	0.0100	ND				
Manganese, total	mg/L	MWII-2	02/22/2010	yes	0.0041					
Manganese, total	mg/L	MWII-2	02/24/2013		0.0100	ND				
Manganese, total	mg/L	MWII-2	08/26/2013		0.0100	ND				
Manganese, total	mg/L	MWII-2	02/24/2014		0.0120					
Manganese, total	mg/L	MWII-2	05/27/2014		0.0100	ND				
Manganese, total	mg/L	MWII-2	08/26/2014		0.0100	ND				
Manganese, total	mg/L	MWII-2	11/11/2014		0.0100	ND				
Manganese, total	mg/L	MWII-2	02/23/2015		0.0100	ND				
Manganese, total	mg/L	MWII-2	05/31/2015		0.0100	ND				
Manganese, total	mg/L	MWII-2	08/31/2015		0.0100	ND				
Manganese, total	mg/L	MWII-2	11/09/2015		0.0100	ND				
Manganese, total	mg/L	MWII-2	03/23/2016		0.0100	ND				
Manganese, total	mg/L	MWII-2	05/23/2016		0.0100	ND				
Manganese, total	mg/L	MWII-2	08/15/2016		0.0100	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
Manganese, total	mg/L	MWII-2	10/26/2016		0.0100	ND		
Manganese, total	mg/L	MWII-2	02/14/2017		0.0100	ND		
Manganese, total	mg/L	MWII-2	05/23/2017		0.0100	ND		
Manganese, total	mg/L	MWII-2	08/15/2017		0.0100	ND		
Manganese, total	mg/L	MWII-2	11/14/2017		0.0100	ND		
Manganese, total	mg/L	MWII-2	02/13/2018		0.0100	ND		
Manganese, total	mg/L	MWII-2	05/15/2018		0.0100	ND		
Manganese, total	mg/L	MWII-2	08/14/2018		0.0100	ND		
Manganese, total	mg/L	MWII-2	11/13/2018		0.0100	ND		
Manganese, total	mg/L	MWII-2	02/19/2019		0.0100	ND		
Manganese, total	mg/L	MWII-2	06/19/2019		0.0100	ND		
Manganese, total	mg/L	MWII-2	08/27/2019		0.0100	ND		
Manganese, total	mg/L	MWII-2	11/13/2019		0.0100	ND		
Manganese, total	mg/L	MWII-2	02/27/2020		0.0047			
Manganese, total	mg/L	MWII-2	05/17/2020		0.0025			
Manganese, total	mg/L	MWII-2	07/19/2020		0.0031			
Manganese, total	mg/L	MWII-2	10/26/2020		0.0026			
Manganese, total	mg/L	MWII-2	01/12/2021		0.0025			
Manganese, total	mg/L	MWII-2	04/13/2021		0.0019	ND		
Manganese, total	mg/L	MWII-2	07/26/2021		0.0100	ND		
Manganese, total	mg/L	MWII-2	10/19/2021		0.0100	ND		
Manganese, total	mg/L	MWII-2	03/27/2022		0.0100	ND		
Manganese, total	mg/L	MWII-2	05/09/2022		0.0100	ND		
Manganese, total	mg/L	MWII-2	08/23/2022		0.0100	ND		
Manganese, total	mg/L	MWII-2	11/16/2022		0.0100	ND		
Manganese, total	mg/L	MWII-2	02/06/2023		0.0100	ND		
Manganese, total	mg/L	MWII-2	05/14/2023		0.0100	ND		
Manganese, total	mg/L	MWII-2	09/18/2023		0.0100	ND		
Manganese, total	mg/L	MWII-2	11/14/2023		0.0100	ND		
Manganese, total	mg/L	MWII-2	02/04/2024		0.0100	ND		
Manganese, total	mg/L	MWII-2	04/29/2024		0.0100	ND		
Manganese, total	mg/L	MWII-2	07/23/2024		0.0100	ND		
Manganese, total	mg/L	MWII-2	11/05/2024		0.0100	ND		
Manganese, total	mg/L	MWII-2	02/02/2025		0.0100	ND		
Manganese, total	mg/L	MWII-2	06/16/2025		0.0100	ND		
Manganese, total	mg/L	MWII-2	08/18/2025		0.0100	ND		
Manganese, total	mg/L	MWII-5	07/26/2006	yes	0.0100	ND		
Manganese, total	mg/L	MWII-5	02/05/2007	yes	0.0100	ND		
Manganese, total	mg/L	MWII-5	10/16/2007	yes	0.0100	ND		
Manganese, total	mg/L	MWII-5	06/10/2008	yes	0.0100	ND		
Manganese, total	mg/L	MWII-5	07/29/2008	yes	0.0100	ND		
Manganese, total	mg/L	MWII-5	11/10/2008	yes	0.0100	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	
Manganese, total	mg/L	MWII-5	03/09/2009	yes	0.0110					
Manganese, total	mg/L	MWII-5	05/18/2009	yes	0.0100	ND				
Manganese, total	mg/L	MWII-5	07/20/2009	yes	0.0100	ND				
Manganese, total	mg/L	MWII-5	11/02/2009	yes	0.0100	ND				
Manganese, total	mg/L	MWII-5	02/22/2010	yes	0.0071					
Manganese, total	mg/L	MWII-5	02/24/2013		0.0100	ND				
Manganese, total	mg/L	MWII-5	08/26/2013		0.0100	ND				
Manganese, total	mg/L	MWII-5	02/24/2014		0.0100	ND				
Manganese, total	mg/L	MWII-5	05/27/2014		0.0100	ND				
Manganese, total	mg/L	MWII-5	08/26/2014		0.0100					
Manganese, total	mg/L	MWII-5	11/11/2014		0.0100	ND				
Manganese, total	mg/L	MWII-5	02/23/2015		0.0100	ND				
Manganese, total	mg/L	MWII-5	05/31/2015		0.0100	ND				
Manganese, total	mg/L	MWII-5	08/31/2015		0.0100	ND				
Manganese, total	mg/L	MWII-5	11/09/2015		0.0100	ND				
Manganese, total	mg/L	MWII-5	03/17/2016		0.0100	ND				
Manganese, total	mg/L	MWII-5	05/23/2016		0.0100	ND				
Manganese, total	mg/L	MWII-5	08/15/2016		0.0100	ND				
Manganese, total	mg/L	MWII-5	10/26/2016		0.0100	ND				
Manganese, total	mg/L	MWII-5	02/14/2017		0.0100	ND				
Manganese, total	mg/L	MWII-5	05/23/2017		0.0100	ND				
Manganese, total	mg/L	MWII-5	08/15/2017		0.0100	ND				
Manganese, total	mg/L	MWII-5	11/14/2017		0.0100					
Manganese, total	mg/L	MWII-5	02/13/2018		0.0100	ND				
Manganese, total	mg/L	MWII-5	05/15/2018		0.0100	ND				
Manganese, total	mg/L	MWII-5	08/14/2018		0.0100	ND				
Manganese, total	mg/L	MWII-5	11/13/2018		0.0100	ND				
Manganese, total	mg/L	MWII-5	02/19/2019		0.0100	ND				
Manganese, total	mg/L	MWII-5	06/19/2019		0.0100	ND				
Manganese, total	mg/L	MWII-5	08/27/2019		0.0100	ND				
Manganese, total	mg/L	MWII-5	11/12/2019		0.0100	ND				
Manganese, total	mg/L	MWII-5	02/26/2020		0.0083					
Manganese, total	mg/L	MWII-5	05/17/2020		0.0079					
Manganese, total	mg/L	MWII-5	07/19/2020		0.0071					
Manganese, total	mg/L	MWII-5	10/26/2020		0.0052					
Manganese, total	mg/L	MWII-5	01/12/2021		0.0060					
Manganese, total	mg/L	MWII-5	04/13/2021		0.0043					
Manganese, total	mg/L	MWII-5	07/26/2021		0.0100	ND				
Manganese, total	mg/L	MWII-5	10/18/2021		0.0100	ND				
Manganese, total	mg/L	MWII-5	03/27/2022		0.0100	ND				
Manganese, total	mg/L	MWII-5	05/09/2022		0.0100	ND				
Manganese, total	mg/L	MWII-5	08/23/2022		0.0100	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	
Manganese, total	mg/L	MWII-5	11/16/2022		0.0100	ND				
Manganese, total	mg/L	MWII-5	02/07/2023		0.0100	ND				
Manganese, total	mg/L	MWII-5	05/14/2023		0.0100	ND				
Manganese, total	mg/L	MWII-5	09/18/2023		0.0100	ND				
Manganese, total	mg/L	MWII-5	11/13/2023		0.0100	ND				
Manganese, total	mg/L	MWII-5	02/04/2024		0.0100	ND				
Manganese, total	mg/L	MWII-5	04/29/2024		0.0100	ND				
Manganese, total	mg/L	MWII-5	07/23/2024		0.0100	ND				
Manganese, total	mg/L	MWII-5	11/05/2024		0.0100	ND				
Manganese, total	mg/L	MWII-5	02/02/2025		0.0100	ND				
Manganese, total	mg/L	MWII-5	06/16/2025		0.0100	ND				
Manganese, total	mg/L	MWII-5	08/18/2025		0.0100	ND				
Manganese, total	mg/L	MWII-7	03/10/2009	yes	0.0100	ND				
Manganese, total	mg/L	MWII-7	05/18/2009	yes	0.0100	ND				
Manganese, total	mg/L	MWII-7	07/20/2009	yes	0.0100	ND				
Manganese, total	mg/L	MWII-7	11/02/2009	yes	0.0160					
Manganese, total	mg/L	MWII-7	02/22/2010	yes	0.0099					
Manganese, total	mg/L	MWII-7	06/05/2012		0.0100	ND		0.0112		
Manganese, total	mg/L	MWII-7	08/27/2012		0.0100	ND		0.0112		
Manganese, total	mg/L	MWII-7	11/13/2012		0.0210			0.0183		
Manganese, total	mg/L	MWII-7	02/24/2013		0.0330			0.0374		**
Manganese, total	mg/L	MWII-7	06/04/2013		0.0100	ND		0.0112		
Manganese, total	mg/L	MWII-7	08/26/2013		0.0100	ND		0.0112		
Manganese, total	mg/L	MWII-7	02/24/2014		0.0100	ND		0.0112		
Manganese, total	mg/L	MWII-7	05/27/2014		0.0300			0.0273		**
Manganese, total	mg/L	MWII-7	08/26/2014		0.0100	ND		0.0112		
Manganese, total	mg/L	MWII-7	11/11/2014		0.0140			0.0113		
Manganese, total	mg/L	MWII-7	02/23/2015		0.0430			0.0404		**
Manganese, total	mg/L	MWII-7	05/31/2015		0.0260			0.0234		**
Manganese, total	mg/L	MWII-7	08/31/2015		1.5000			1.4974		**
Manganese, total	mg/L	MWII-7	11/09/2015		1.1000			1.0974		**
Manganese, total	mg/L	MWII-7	03/23/2016		1.3000			1.2974		**
Manganese, total	mg/L	MWII-7	05/23/2016		1.2000			1.1974		**
Manganese, total	mg/L	MWII-7	08/15/2016		1.2000			1.1974		**
Manganese, total	mg/L	MWII-7	10/26/2016		0.9700			0.9674		**
Manganese, total	mg/L	MWII-7	02/14/2017		0.6900			0.6874		**
Manganese, total	mg/L	MWII-7	05/23/2017		1.6000			1.5974		**
Manganese, total	mg/L	MWII-7	08/15/2017		1.4000			1.3974		**
Manganese, total	mg/L	MWII-7	11/14/2017		1.4000			1.3974		**
Manganese, total	mg/L	MWII-7	02/13/2018		1.4000			1.3974		**
Manganese, total	mg/L	MWII-7	05/15/2018		1.5000			1.4974		**
Manganese, total	mg/L	MWII-7	08/14/2018		1.3000			1.2974		**

* - 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	
Manganese, total	mg/L	MWII-7	11/13/2018		1.4000			1.3974		**
Manganese, total	mg/L	MWII-7	02/19/2019		1.0000			0.9974		**
Manganese, total	mg/L	MWII-7	06/19/2019		1.1000			1.0974		**
Manganese, total	mg/L	MWII-7	08/27/2019		1.1000			1.0974		**
Manganese, total	mg/L	MWII-7	11/13/2019		0.8500			0.8474		**
Manganese, total	mg/L	MWII-7	02/27/2020		0.7800			0.7774		**
Manganese, total	mg/L	MWII-7	05/17/2020		0.5800			0.5774		**
Manganese, total	mg/L	MWII-7	07/19/2020		0.4700			0.4674		**
Manganese, total	mg/L	MWII-7	10/26/2020		0.6000			0.5974		**
Manganese, total	mg/L	MWII-7	01/12/2021		0.3500			0.3474		**
Manganese, total	mg/L	MWII-7	04/13/2021		0.4400			0.4374		**
Manganese, total	mg/L	MWII-7	07/26/2021		0.4800			0.4774		**
Manganese, total	mg/L	MWII-7	10/18/2021		0.3900			0.3874		**
Manganese, total	mg/L	MWII-7	03/27/2022		0.2800			0.2774		**
Manganese, total	mg/L	MWII-7	05/09/2022		0.2900			0.2874		**
Manganese, total	mg/L	MWII-7	08/23/2022		0.2700			0.2674		**
Manganese, total	mg/L	MWII-7	11/16/2022		0.3100			0.3074		**
Manganese, total	mg/L	MWII-7	02/06/2023		0.2700			0.2674		**
Manganese, total	mg/L	MWII-7	05/14/2023		0.3800			0.3774		**
Manganese, total	mg/L	MWII-7	09/18/2023		0.2500			0.2474		**
Manganese, total	mg/L	MWII-7	11/14/2023		0.4500			0.4474		**
Manganese, total	mg/L	MWII-7	02/04/2024		0.2700			0.2674		**
Manganese, total	mg/L	MWII-7	04/29/2024		1.2000			1.1974		**
Manganese, total	mg/L	MWII-7	07/23/2024		0.6000			0.5974		**
Manganese, total	mg/L	MWII-7	11/05/2024		0.5500			0.5474		**
Manganese, total	mg/L	MWII-7	02/02/2025		0.3700			0.3674		**
Manganese, total	mg/L	MWII-7	06/16/2025		0.3800			0.3774		**
Manganese, total	mg/L	MWII-7	08/18/2025		0.3300			0.3274		**
Total organic carbon (toc)	mg/L	MWII-2	03/12/1996	yes	1.5000					
Total organic carbon (toc)	mg/L	MWII-2	05/14/1996	yes	1.5000					
Total organic carbon (toc)	mg/L	MWII-2	08/06/1996	yes	2.3000					
Total organic carbon (toc)	mg/L	MWII-2	01/14/1997	yes	3.3000					
Total organic carbon (toc)	mg/L	MWII-2	07/08/1997	yes	1.7000					
Total organic carbon (toc)	mg/L	MWII-2	01/13/1998	yes	1.9000					
Total organic carbon (toc)	mg/L	MWII-2	08/10/1998	yes	1.6000					
Total organic carbon (toc)	mg/L	MWII-2	01/11/1999	yes	2.3000					
Total organic carbon (toc)	mg/L	MWII-2	07/12/1999	yes	3.0000					
Total organic carbon (toc)	mg/L	MWII-2	01/10/2000	yes	1.6000					
Total organic carbon (toc)	mg/L	MWII-2	07/10/2000	yes	2.0000					
Total organic carbon (toc)	mg/L	MWII-2	01/29/2001	yes	3.7000					
Total organic carbon (toc)	mg/L	MWII-2	08/06/2001	yes	2.9000					
Total organic carbon (toc)	mg/L	MWII-2	01/29/2002	yes	2.6000					

* - 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	
Total organic carbon (toc)	mg/L	MWII-2	08/05/2002	yes	2.5000					
Total organic carbon (toc)	mg/L	MWII-2	01/28/2003	yes	2.3000					
Total organic carbon (toc)	mg/L	MWII-2	08/04/2003	yes	1.1000					
Total organic carbon (toc)	mg/L	MWII-2	01/27/2004	yes	1.5000					
Total organic carbon (toc)	mg/L	MWII-2	08/09/2004	yes	1.9000					
Total organic carbon (toc)	mg/L	MWII-2	01/24/2005	yes	2.1000					
Total organic carbon (toc)	mg/L	MWII-2	07/18/2005	yes	1.9000					
Total organic carbon (toc)	mg/L	MWII-2	01/23/2006	yes	2.7000					
Total organic carbon (toc)	mg/L	MWII-2	07/25/2006	yes	1.9000					
Total organic carbon (toc)	mg/L	MWII-2	02/05/2007	yes	1.2000					
Total organic carbon (toc)	mg/L	MWII-2	10/16/2007	yes	1.2000					
Total organic carbon (toc)	mg/L	MWII-2	03/11/2008	yes	1.0000	ND				
Total organic carbon (toc)	mg/L	MWII-2	06/10/2008	yes	1.0000	ND				
Total organic carbon (toc)	mg/L	MWII-2	07/29/2008	yes	1.3000					
Total organic carbon (toc)	mg/L	MWII-2	11/10/2008	yes	1.4000					
Total organic carbon (toc)	mg/L	MWII-2	03/10/2009	yes	2.1000					
Total organic carbon (toc)	mg/L	MWII-2	05/18/2009	yes	1.8000					
Total organic carbon (toc)	mg/L	MWII-2	07/20/2009	yes	1.6000					
Total organic carbon (toc)	mg/L	MWII-2	11/02/2009	yes	1.9000					
Total organic carbon (toc)	mg/L	MWII-2	02/22/2010	yes	1.8000					
Total organic carbon (toc)	mg/L	MWII-2	08/23/2010	yes	1.5000					
Total organic carbon (toc)	mg/L	MWII-2	03/08/2011		1.6000			1.9314		
Total organic carbon (toc)	mg/L	MWII-2	08/02/2011		1.6000			1.9314		
Total organic carbon (toc)	mg/L	MWII-2	03/14/2012		1.1000			1.9314		
Total organic carbon (toc)	mg/L	MWII-2	08/27/2012		1.0000	ND		1.9314		
Total organic carbon (toc)	mg/L	MWII-2	02/24/2013		1.2000			1.9314		
Total organic carbon (toc)	mg/L	MWII-2	08/26/2013		1.6000			1.9314		
Total organic carbon (toc)	mg/L	MWII-2	02/24/2014		1.6000			1.9314		
Total organic carbon (toc)	mg/L	MWII-2	05/27/2014		2.0000			1.9314		
Total organic carbon (toc)	mg/L	MWII-2	08/26/2014		1.5000			1.9314		
Total organic carbon (toc)	mg/L	MWII-2	11/11/2014		1.3000			1.9314		
Total organic carbon (toc)	mg/L	MWII-2	02/23/2015		1.2000			1.9314		
Total organic carbon (toc)	mg/L	MWII-2	05/31/2015		1.5000			1.9314		
Total organic carbon (toc)	mg/L	MWII-2	08/31/2015		1.2000			1.9314		
Total organic carbon (toc)	mg/L	MWII-2	11/09/2015		2.3000			1.9314		
Total organic carbon (toc)	mg/L	MWII-2	03/23/2016		1.2000			1.9314		
Total organic carbon (toc)	mg/L	MWII-2	05/23/2016		1.4000			1.9314		
Total organic carbon (toc)	mg/L	MWII-2	08/15/2016		1.2000			1.9314		
Total organic carbon (toc)	mg/L	MWII-2	10/26/2016		1.3000			1.9314		
Total organic carbon (toc)	mg/L	MWII-2	02/14/2017		1.3000			1.9314		
Total organic carbon (toc)	mg/L	MWII-2	05/23/2017		1.5000			1.9314		
Total organic carbon (toc)	mg/L	MWII-2	08/15/2017		1.5000			1.9314		

* - 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	
Total organic carbon (toc)	mg/L	MWII-2	11/14/2017		1.4000		1.9314		
Total organic carbon (toc)	mg/L	MWII-2	02/13/2018		3.6000		3.1144		
Total organic carbon (toc)	mg/L	MWII-2	05/15/2018		1.1000		1.9314		
Total organic carbon (toc)	mg/L	MWII-2	08/14/2018		1.3000		1.9314		
Total organic carbon (toc)	mg/L	MWII-2	11/13/2018		1.2000		1.9314		
Total organic carbon (toc)	mg/L	MWII-2	02/19/2019		1.2000		1.9314		
Total organic carbon (toc)	mg/L	MWII-2	06/19/2019		1.4000		1.9314		
Total organic carbon (toc)	mg/L	MWII-2	08/27/2019		1.6000		1.9314		
Total organic carbon (toc)	mg/L	MWII-2	11/13/2019		1.5000		1.9314		
Total organic carbon (toc)	mg/L	MWII-2	02/27/2020		1.1000		1.9314		
Total organic carbon (toc)	mg/L	MWII-2	05/17/2020		1.9000		1.9314		
Total organic carbon (toc)	mg/L	MWII-2	07/19/2020		1.5000		1.9314		
Total organic carbon (toc)	mg/L	MWII-2	10/26/2020		1.8000		1.9314		
Total organic carbon (toc)	mg/L	MWII-2	01/12/2021		1.5000		1.9314		
Total organic carbon (toc)	mg/L	MWII-2	04/13/2021		2.0000		1.9314		
Total organic carbon (toc)	mg/L	MWII-2	07/26/2021		1.4000		1.9314		
Total organic carbon (toc)	mg/L	MWII-2	10/19/2021		2.2000		1.9314		
Total organic carbon (toc)	mg/L	MWII-2	03/27/2022		1.3000		1.9314		
Total organic carbon (toc)	mg/L	MWII-2	05/09/2022		3.9000		3.4144		
Total organic carbon (toc)	mg/L	MWII-2	08/23/2022		1.0000		1.9973		
Total organic carbon (toc)	mg/L	MWII-2	11/16/2022		1.5000		1.9314		
Total organic carbon (toc)	mg/L	MWII-2	02/06/2023		1.9000		1.9314		
Total organic carbon (toc)	mg/L	MWII-2	05/14/2023		1.7000		1.9314		
Total organic carbon (toc)	mg/L	MWII-2	09/18/2023		1.8000		1.9314		
Total organic carbon (toc)	mg/L	MWII-2	11/14/2023		1.0000		1.9314		
Total organic carbon (toc)	mg/L	MWII-2	02/04/2024		1.1000		1.9314		
Total organic carbon (toc)	mg/L	MWII-2	04/29/2024		1.7000		1.9314		
Total organic carbon (toc)	mg/L	MWII-2	07/23/2024		2.0000		1.9314		
Total organic carbon (toc)	mg/L	MWII-2	11/05/2024		2.4000		1.9314		
Total organic carbon (toc)	mg/L	MWII-2	02/02/2025		1.8000		1.9314		
Total organic carbon (toc)	mg/L	MWII-2	06/16/2025		1.5000		1.9314		
Total organic carbon (toc)	mg/L	MWII-2	08/18/2025		1.3000		1.9314		
Total organic carbon (toc)	mg/L	MWII-5	03/12/1996	yes	1.1000				
Total organic carbon (toc)	mg/L	MWII-5	05/14/1996	yes	1.2000				
Total organic carbon (toc)	mg/L	MWII-5	08/06/1996	yes	1.7000				
Total organic carbon (toc)	mg/L	MWII-5	01/14/1997	yes	2.9000				
Total organic carbon (toc)	mg/L	MWII-5	01/13/1998	yes	1.8000				
Total organic carbon (toc)	mg/L	MWII-5	01/11/1999	yes	2.0000				
Total organic carbon (toc)	mg/L	MWII-5	01/10/2000	yes	1.7000				
Total organic carbon (toc)	mg/L	MWII-5	07/10/2000	yes	1.2000				
Total organic carbon (toc)	mg/L	MWII-5	01/29/2001	yes	3.0000				
Total organic carbon (toc)	mg/L	MWII-5	01/29/2002	yes	2.5000				

* - 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	
Total organic carbon (toc)	mg/L	MWII-5	01/28/2003	yes	2.2000					
Total organic carbon (toc)	mg/L	MWII-5	01/27/2004	yes	1.6000					
Total organic carbon (toc)	mg/L	MWII-5	08/09/2004	yes	1.8000					
Total organic carbon (toc)	mg/L	MWII-5	01/24/2005	yes	1.7000					
Total organic carbon (toc)	mg/L	MWII-5	07/18/2005	yes	1.7000					
Total organic carbon (toc)	mg/L	MWII-5	01/23/2006	yes	1.8000					
Total organic carbon (toc)	mg/L	MWII-5	07/26/2006	yes	2.0000					
Total organic carbon (toc)	mg/L	MWII-5	02/05/2007	yes	1.7000					
Total organic carbon (toc)	mg/L	MWII-5	10/16/2007	yes	1.3000					
Total organic carbon (toc)	mg/L	MWII-5	03/11/2008	yes	1.0000	ND				
Total organic carbon (toc)	mg/L	MWII-5	06/10/2008	yes	1.1000					
Total organic carbon (toc)	mg/L	MWII-5	07/29/2008	yes	1.6000					
Total organic carbon (toc)	mg/L	MWII-5	11/10/2008	yes	1.7000					
Total organic carbon (toc)	mg/L	MWII-5	03/09/2009	yes	1.9000					
Total organic carbon (toc)	mg/L	MWII-5	05/18/2009	yes	1.9000					
Total organic carbon (toc)	mg/L	MWII-5	07/20/2009	yes	1.7000					
Total organic carbon (toc)	mg/L	MWII-5	11/02/2009	yes	2.3000					
Total organic carbon (toc)	mg/L	MWII-5	02/22/2010	yes	2.1000					
Total organic carbon (toc)	mg/L	MWII-5	08/23/2010	yes	1.6000					
Total organic carbon (toc)	mg/L	MWII-5	03/08/2011		1.3000			1.7862		
Total organic carbon (toc)	mg/L	MWII-5	08/02/2011		1.5000			1.7862		
Total organic carbon (toc)	mg/L	MWII-5	03/14/2012		1.9000			1.7862		
Total organic carbon (toc)	mg/L	MWII-5	08/27/2012		1.4000			1.7862		
Total organic carbon (toc)	mg/L	MWII-5	02/24/2013		1.5000			1.7862		
Total organic carbon (toc)	mg/L	MWII-5	08/26/2013		1.6000			1.7862		
Total organic carbon (toc)	mg/L	MWII-5	02/24/2014		1.9000			1.7862		
Total organic carbon (toc)	mg/L	MWII-5	05/27/2014		2.0000			1.7862		
Total organic carbon (toc)	mg/L	MWII-5	08/26/2014		1.8000			1.7862		
Total organic carbon (toc)	mg/L	MWII-5	11/11/2014		1.5000			1.7862		
Total organic carbon (toc)	mg/L	MWII-5	02/23/2015		1.6000			1.7862		
Total organic carbon (toc)	mg/L	MWII-5	05/31/2015		2.2000			1.8382		
Total organic carbon (toc)	mg/L	MWII-5	06/01/2015		2.0000			1.7862		
Total organic carbon (toc)	mg/L	MWII-5	08/31/2015		1.7000			1.7862		
Total organic carbon (toc)	mg/L	MWII-5	11/09/2015		1.8000			1.7862		
Total organic carbon (toc)	mg/L	MWII-5	03/17/2016		1.8000			1.7862		
Total organic carbon (toc)	mg/L	MWII-5	05/23/2016		2.1000			1.7862		
Total organic carbon (toc)	mg/L	MWII-5	08/15/2016		2.2000			1.8382		
Total organic carbon (toc)	mg/L	MWII-5	10/26/2016		2.1000			1.7903		
Total organic carbon (toc)	mg/L	MWII-5	02/14/2017		1.8000			1.7862		
Total organic carbon (toc)	mg/L	MWII-5	05/23/2017		2.0000			1.7862		
Total organic carbon (toc)	mg/L	MWII-5	08/15/2017		1.8000			1.7862		
Total organic carbon (toc)	mg/L	MWII-5	11/14/2017		2.0000			1.7862		

* - 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	
Total organic carbon (toc)	mg/L	MWII-5	02/13/2018		2.0000			1.7862		
Total organic carbon (toc)	mg/L	MWII-5	05/15/2018		1.3000			1.7862		
Total organic carbon (toc)	mg/L	MWII-5	08/14/2018		1.5000			1.7862		
Total organic carbon (toc)	mg/L	MWII-5	11/13/2018		1.3000			1.7862		
Total organic carbon (toc)	mg/L	MWII-5	02/19/2019		1.4000			1.7862		
Total organic carbon (toc)	mg/L	MWII-5	06/19/2019		1.3000			1.7862		
Total organic carbon (toc)	mg/L	MWII-5	08/27/2019		1.7000			1.7862		
Total organic carbon (toc)	mg/L	MWII-5	11/12/2019		1.4000			1.7862		
Total organic carbon (toc)	mg/L	MWII-5	02/26/2020		1.5000			1.7862		
Total organic carbon (toc)	mg/L	MWII-5	05/17/2020		1.9000			1.7862		
Total organic carbon (toc)	mg/L	MWII-5	07/19/2020		1.6000			1.7862		
Total organic carbon (toc)	mg/L	MWII-5	10/26/2020		1.7000			1.7862		
Total organic carbon (toc)	mg/L	MWII-5	01/12/2021		1.5000			1.7862		
Total organic carbon (toc)	mg/L	MWII-5	04/13/2021		1.4000			1.7862		
Total organic carbon (toc)	mg/L	MWII-5	07/26/2021		1.2000			1.7862		
Total organic carbon (toc)	mg/L	MWII-5	10/18/2021		2.0000			1.7862		
Total organic carbon (toc)	mg/L	MWII-5	03/27/2022		1.3000			1.7862		
Total organic carbon (toc)	mg/L	MWII-5	05/09/2022		1.4000			1.7862		
Total organic carbon (toc)	mg/L	MWII-5	08/23/2022		1.4000			1.7862		
Total organic carbon (toc)	mg/L	MWII-5	11/16/2022		2.3000			1.9382		
Total organic carbon (toc)	mg/L	MWII-5	02/07/2023		2.0000			1.7903		
Total organic carbon (toc)	mg/L	MWII-5	05/14/2023		1.8000			1.7862		
Total organic carbon (toc)	mg/L	MWII-5	09/18/2023		2.0000			1.7862		
Total organic carbon (toc)	mg/L	MWII-5	11/13/2023		1.0000	ND		1.7862		
Total organic carbon (toc)	mg/L	MWII-5	02/04/2024		1.8000			1.7862		
Total organic carbon (toc)	mg/L	MWII-5	04/29/2024		1.5000			1.7862		
Total organic carbon (toc)	mg/L	MWII-5	07/23/2024		2.2000			1.8382		
Total organic carbon (toc)	mg/L	MWII-5	11/05/2024		2.7000			2.3903		
Total organic carbon (toc)	mg/L	MWII-5	02/02/2025		2.4000			2.6423		
Total organic carbon (toc)	mg/L	MWII-5	06/16/2025		1.9000			2.3943		
Total organic carbon (toc)	mg/L	MWII-5	08/18/2025		1.7000			1.9464		
Total organic carbon (toc)	mg/L	MWII-7	03/10/2009	yes	3.5000					
Total organic carbon (toc)	mg/L	MWII-7	05/18/2009	yes	3.5000					
Total organic carbon (toc)	mg/L	MWII-7	07/20/2009	yes	2.8000					
Total organic carbon (toc)	mg/L	MWII-7	11/02/2009	yes	2.5000					
Total organic carbon (toc)	mg/L	MWII-7	02/22/2010	yes	1.9000					
Total organic carbon (toc)	mg/L	MWII-7	06/01/2010	yes	2.9000					
Total organic carbon (toc)	mg/L	MWII-7	08/23/2010	yes	2.2000					
Total organic carbon (toc)	mg/L	MWII-7	11/16/2010	yes	2.7000					
Total organic carbon (toc)	mg/L	MWII-7	03/08/2011		1.8000			2.7500		
Total organic carbon (toc)	mg/L	MWII-7	05/10/2011		2.5000			2.7500		
Total organic carbon (toc)	mg/L	MWII-7	08/02/2011		2.3000			2.7500		

* - 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
Total organic carbon (toc)	mg/L	MWII-7	11/16/2011		3.4000		2.8343	
Total organic carbon (toc)	mg/L	MWII-7	03/14/2012		2.7000		2.7500	
Total organic carbon (toc)	mg/L	MWII-7	06/05/2012		1.9000		2.7500	
Total organic carbon (toc)	mg/L	MWII-7	08/27/2012		1.8000		2.7500	
Total organic carbon (toc)	mg/L	MWII-7	11/13/2012		3.0000		2.7500	
Total organic carbon (toc)	mg/L	MWII-7	02/24/2013		1.9000		2.7500	
Total organic carbon (toc)	mg/L	MWII-7	06/04/2013		2.1000		2.7500	
Total organic carbon (toc)	mg/L	MWII-7	08/26/2013		1.5000		2.7500	
Total organic carbon (toc)	mg/L	MWII-7	02/24/2014		2.2000		2.7500	
Total organic carbon (toc)	mg/L	MWII-7	05/27/2014		2.7000		2.7500	
Total organic carbon (toc)	mg/L	MWII-7	08/26/2014		1.8000		2.7500	
Total organic carbon (toc)	mg/L	MWII-7	11/11/2014		1.9000		2.7500	
Total organic carbon (toc)	mg/L	MWII-7	02/23/2015		1.3000		2.7500	
Total organic carbon (toc)	mg/L	MWII-7	05/31/2015		2.0000		2.7500	
Total organic carbon (toc)	mg/L	MWII-7	08/31/2015		4.9000		4.3343	
Total organic carbon (toc)	mg/L	MWII-7	11/09/2015		3.5000		4.5186	
Total organic carbon (toc)	mg/L	MWII-7	03/23/2016		2.4000		3.6029	
Total organic carbon (toc)	mg/L	MWII-7	05/23/2016		2.6000		2.8873	
Total organic carbon (toc)	mg/L	MWII-7	08/15/2016		2.3000		2.7500	
Total organic carbon (toc)	mg/L	MWII-7	10/26/2016		2.4000		2.7500	
Total organic carbon (toc)	mg/L	MWII-7	02/14/2017		3.4000		2.8343	
Total organic carbon (toc)	mg/L	MWII-7	05/23/2017		3.6000		3.1186	
Total organic carbon (toc)	mg/L	MWII-7	08/15/2017		2.8000		2.7500	
Total organic carbon (toc)	mg/L	MWII-7	11/14/2017		3.8000		3.2343	
Total organic carbon (toc)	mg/L	MWII-7	02/13/2018		4.2000		4.1186	
Total organic carbon (toc)	mg/L	MWII-7	05/15/2018		2.4000		3.2029	
Total organic carbon (toc)	mg/L	MWII-7	08/14/2018		2.5000		2.7500	
Total organic carbon (toc)	mg/L	MWII-7	11/13/2018		2.6000		2.7500	
Total organic carbon (toc)	mg/L	MWII-7	02/19/2019		2.1000		2.7500	
Total organic carbon (toc)	mg/L	MWII-7	06/19/2019		2.8000		2.7500	
Total organic carbon (toc)	mg/L	MWII-7	08/27/2019		2.4000		2.7500	
Total organic carbon (toc)	mg/L	MWII-7	11/13/2019		2.2000		2.7500	
Total organic carbon (toc)	mg/L	MWII-7	02/27/2020		3.0000		2.7500	
Total organic carbon (toc)	mg/L	MWII-7	05/17/2020		2.4000		2.7500	
Total organic carbon (toc)	mg/L	MWII-7	07/19/2020		2.2000		2.7500	
Total organic carbon (toc)	mg/L	MWII-7	10/26/2020		3.3000		2.7500	
Total organic carbon (toc)	mg/L	MWII-7	01/12/2021		2.5000		2.7500	
Total organic carbon (toc)	mg/L	MWII-7	04/13/2021		2.8000		2.7500	
Total organic carbon (toc)	mg/L	MWII-7	07/26/2021		1.8000		2.7500	
Total organic carbon (toc)	mg/L	MWII-7	10/18/2021		3.1000		2.7500	
Total organic carbon (toc)	mg/L	MWII-7	03/27/2022		1.7000		2.7500	
Total organic carbon (toc)	mg/L	MWII-7	05/09/2022		2.2000		2.7500	

* - 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	
Total organic carbon (toc)	mg/L	MWII-7	08/23/2022		1.5000			2.7500		
Total organic carbon (toc)	mg/L	MWII-7	11/16/2022		1.9000			2.7500		
Total organic carbon (toc)	mg/L	MWII-7	02/06/2023		2.4000			2.7500		
Total organic carbon (toc)	mg/L	MWII-7	05/14/2023		3.2000			2.7500		
Total organic carbon (toc)	mg/L	MWII-7	09/18/2023		2.9000			2.7500		
Total organic carbon (toc)	mg/L	MWII-7	11/14/2023		3.4000			2.8343		
Total organic carbon (toc)	mg/L	MWII-7	02/04/2024		2.6000			2.7500		
Total organic carbon (toc)	mg/L	MWII-7	04/29/2024		3.6000			3.0343		
Total organic carbon (toc)	mg/L	MWII-7	07/23/2024		3.5000			3.2186		
Total organic carbon (toc)	mg/L	MWII-7	11/05/2024		3.3000			3.2029		
Total organic carbon (toc)	mg/L	MWII-7	02/02/2025		3.0000			2.8873		
Total organic carbon (toc)	mg/L	MWII-7	06/16/2025		2.8000			2.7500		
Total organic carbon (toc)	mg/L	MWII-7	08/18/2025		2.5000			2.7500		

* - Outlier for that well and constituent.

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

*** - ND value replaced with median RL.

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

ND = Not detected, Result = detection limit.

Table 4**Dixon's Test Outliers
1% Significance Level**

Constituent	Units	Well	Date	Result	ND Qualifier	Date Range	N	Critical Value
Arsenic, total	mg/L	MWII-5	03/12/1996	0.0040		03/12/1996-02/22/2010	24	0.4969
Iron, total	mg/L	MWII-5	01/11/1999	0.3200		03/12/1996-02/22/2010	24	0.4969

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

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

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