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SECOND QUARTER 2026 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

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TABLE OF CONTENTS

1.	INTRODUCTION AND BACKGROUND	1
1.1	Site Setting	1
1.2	Monitoring Plan Update.....	1
1.3	Elevation Datum	2
1.4	Phase I Landfill	3
1.5	Phase II Landfill.....	3
2.	LANDFILL QUARTERLY GROUNDWATER MONITORING.....	7
2.1	Field Monitoring Activities.....	7
2.2	Laboratory Analyses of Monitoring Well Groundwater Samples	9
2.3	Evaluation of Groundwater Data Quality	10
2.4	Groundwater Monitoring Results	13
2.4.1	Groundwater Flow Direction	13
2.4.2	Groundwater Sample Analyses	13
2.4.3	Phase I Landfill Monitoring Wells	17
2.4.4	Phase II Landfill Monitoring Wells	18
2.5	Monitoring Results Summary and Conclusions	19
2.6	Phase I Quarterly Site Inspection.....	26
3.	LEACHATE MONITORING.....	26
4.	REFERENCES	27

LIST OF TABLES

Table 1: Groundwater Level Data (May 2, 2026).....	9
Table 2: Summary of Groundwater Analytical Results (May 3 and 11, 2026)	11

LIST OF FIGURES

Figure 1: Site Location Map	5
Figure 2: Site Layout	6
Figure 3: Groundwater Contour Map (May 2, 2026)	8

LIST OF APPENDICES

Appendix A: Field Information Forms
Appendix B: Historical Analytical Data for Phase I Groundwater Monitoring Wells
Appendix C: TestAmerica Laboratories Inc (a Eurofins Environment Testing Company) Laboratory Reports (on CD) Table C-1. Groundwater Analytical Results Q2 2026 Table C-2. Qualifiers for Groundwater Analytical Results Q2 2026
Appendix D: Statistical Evaluation of Phase II Landfill Data

ACRONYMS AND ABBREVIATIONS

µg/L	micrograms per liter
µS/cm	microSiemens per centimeter
AECOM	AECOM Technical Services, Inc.
ASD	alternative source demonstration
ASTM	ASTM International
CFR	Code of Federal Regulations
COD	chemical oxygen demand
County	County of Kauaʻi Department of Public Works
CUSUM	Shewhart-Cumulative Sum
DOH	Department of Health, State of Hawaiʻi
DQR	data quality review
DUP	duplicate
EAL	Environmental Action Level
FB	field blank
ft	foot or feet
Geosyntec	Geosyntec Consultants, Inc.
GMP	Groundwater and Leachate Monitoring Plan
HAR	Hawaiʻi Administrative Rules
J	Result is estimated
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
PCBs	polychlorinated biphenyls
PVC	polyvinyl chloride
QA/QC	quality assurance/quality control
RL	reporting limit

RPD	relative percent difference
SHWB	Solid and Hazardous Waste Branch
SSIs	statistically significant increases
SVOCs	semi-volatile organic compounds
TA	TestAmerica Laboratories Inc (a Eurofins Environment Testing Company)
TB	trip blank
TDS	total dissolved solids
TOC	total organic carbon
U	Result is below the RL
USEPA	United States Environmental Protection Agency
VOCs	volatile organic compounds

1. INTRODUCTION AND BACKGROUND

This report presents the results of the Second Quarter 2026 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 activities for the Second Quarter 2026 groundwater and leachate monitoring event were conducted between May 2 and 11, 2026, in accordance with the Solid Waste Management Permit No. LF-0042-16 issued by the Hawai'i Department of Health (DOH) (DOH 2019). Groundwater and leachate monitoring is conducted to evaluate whether past and/or present municipal solid waste (MSW) disposal operations have impacted groundwater quality within the coastal plain aquifer beneath the KLF.

1.1 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 feet (ft) from the Pacific Ocean shoreline (Figure 1). The Phase I Landfill occupies approximately 33 acres with ground surface elevations ranging from about 10 to 40 ft above mean sea level (msl). Phase I opened in 1953 and accepted municipal solid waste (MSW) until its closure in 1993.

The Phase II Landfill is lined and hydraulically upgradient of the closed and unlined Phase I Landfill. The Phase II Landfill comprises approximately 63 acres, with the permitted waste footprint consisting of the original Phase II Landfill (32.1 acres); the Cell 1 lateral expansion (6.4 acres); and the Cell 2 lateral expansion (5.9 acres). Base elevations range from approximately 7 ft above msl to 12 ft above msl.

No natural streams or lakes exist within or near the facility. The map presented in Figure 1 shows the site location, and the image presented in Figure 2 shows the site layout.

1.2 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 6 months of the solid waste permit issuance. An updated GMP (Geosyntec 2020) was submitted to the DOH on March 12, 2020. Subsequent correspondence on updates to the GMP, which also discusses updates to the Quarterly Monitoring Reports, includes

- comments from the DOH in a letter dated August 6, 2021 (DOH 2021);
- a summary of Background Reevaluation for Intra-Well Statistics, Geosyntec, July 21, 2022 (Geosyntec 2022);
- responses by the County of Kaua'i Department of Public Works (County) to DOH comments on the updated Draft GMP, August 12, 2022 (County 2022);
- a meeting between the DOH, the County, and Geosyntec on August 31, 2022, to discuss DOH comments on the updated Draft GMP and the updates to the groundwater monitoring network;

- a DOH letter to the County dated October 3, 2022, presenting their review of (DOH 2022) the following
 - the County's August 12, 2022, response to DOH comments on the Draft GMP;
 - Geosyntec's Summary of Background Reevaluation for Intra-Well Statistics; and
 - the Second Quarter 2022 Monitoring Report.
- discussion by the County and Geosyntec on October 14, 2022, to prepare a response to the additional comments and requests by the DOH; and
- a County letter to the DOH dated February 6, 2023, presenting a status update and response to additional comments on the GMP. The comments include documentation of agreement that, beginning in 2023, the monitoring reports will address the Phase I and II Landfills together rather than in separate sections of the report (County 2023).

In accordance with the previous and 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 ASTM International guidance on groundwater monitoring at Subtitle D and Subtitle C facilities (DOH 2002).

Three new monitoring wells were installed between November 3 and 7, 2025, with their final completion in the First Quarter of 2026 (Geosyntec 2026):

- MWII-6A is located along the eastern margin of the KLF at the northeast corner of the Phase I and southeast corner of the Phase II Landfills, respectively; and
- MWII-8 and MWII-9 are located mauka (inland) of the highway.

As discussed with the DOH, the County will include these three new monitoring wells in the next update of the GMP, which will be prepared following issuance of the new solid waste permit. Although the wells have been added to the monitoring network, eight quarters of data must be collected before results can be incorporated into statistical analyses. Once sufficient data have been collected, the two mauka wells (MWII-8 and MWII-9) will be used to update background groundwater concentrations (Figures 2 and 3).

1.3 Elevation Datum

Elevation references in this report are in ft above msl and are based on the elevation data provided by Esaki Surveying and Mapping Inc., taken on November 4, 2025. This updated survey information uses the elevation as presented for the United States Geological Survey brass

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

monument G10002 plus an additional 1.21 ft, as is described in KLF Solid Waste Management Permit No. LF-0042.16. Coordinates are provided in Hawai‘i State Plane North American Datum of 1983, Zone 4 U.S. feet. The three new wells that were installed in 2025, and completed in 2026, were surveyed in February 2026 by Honua Engineering, Inc., according to the protocol described above.

1.4 Phase I Landfill

The KLF Phase I Landfill (Figure 2) is a closed, unlined MSW landfill that began accepting waste in 1953 and ceased operations on October 8, 1993. The facility is owned and operated by the County. Groundwater monitoring is currently conducted on a quarterly basis 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). Following the First Quarter 2020 monitoring event, a revised GMP was submitted (Geosyntec 2020) to the DOH. This revised GMP will apply to future monitoring events upon DOH approval.

Phase I Landfill closure began on May 20, 1994, and was completed on February 13, 1995. Closure construction activities are 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).

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).

1.5 Phase II Landfill

The KLF Phase II Landfill (Figure 2) is an active MSW lined landfill that began accepting solid waste on October 9, 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 September 13, 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-6A, MWII-7, MWII-8, and MWII-9 as well as monitoring wells MWI-1A, MWI-2A, and MWI-3A now comprise the Phase II groundwater monitoring network (Figure 2).

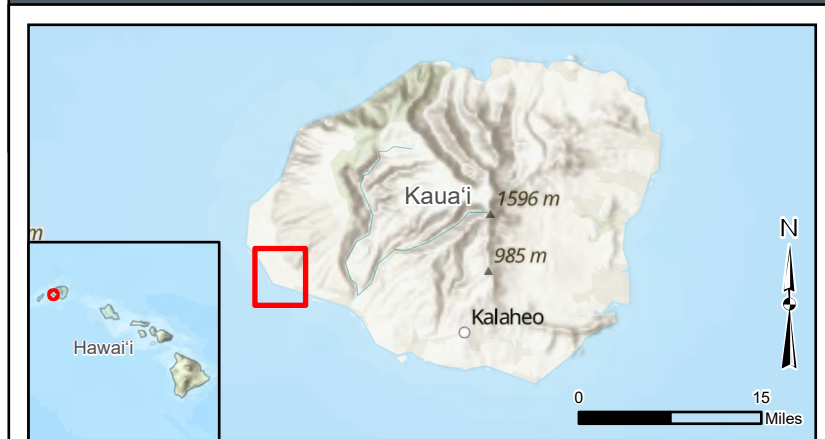
² The documented elevation for G1000 is 13.24 ft. The survey adds 1.21 ft per the permit.

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 Landfill 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 SSI other than the KLF. The ASD reports indicate that the exceedances were likely due to sources other than the Phase II Landfill, including fertilizer application on agriculture 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.

In a letter dated May 22, 2014, the DOH Solid and Hazardous Waste Branch (SHWB), 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 to fertilizer compounds associated with upgradient agricultural activities and biodegradation of organic fill materials.
- The TOC SSIs likely stem from the Phase I Landfill. SHWB noted that the TOC was detected in the historical Phase I Landfill 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 April 13, 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 Landfill operating history. Therefore, the assessment monitoring is continuing at these monitoring wells.

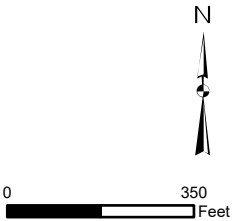




Legend

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

Notes:
- Aerial imagery source: Google Earth, February 2024.



Site Layout

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

Geosyntec
consultants

WG3074//26007304

July 2026

Figure

2

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.³

2.1 Field Monitoring Activities

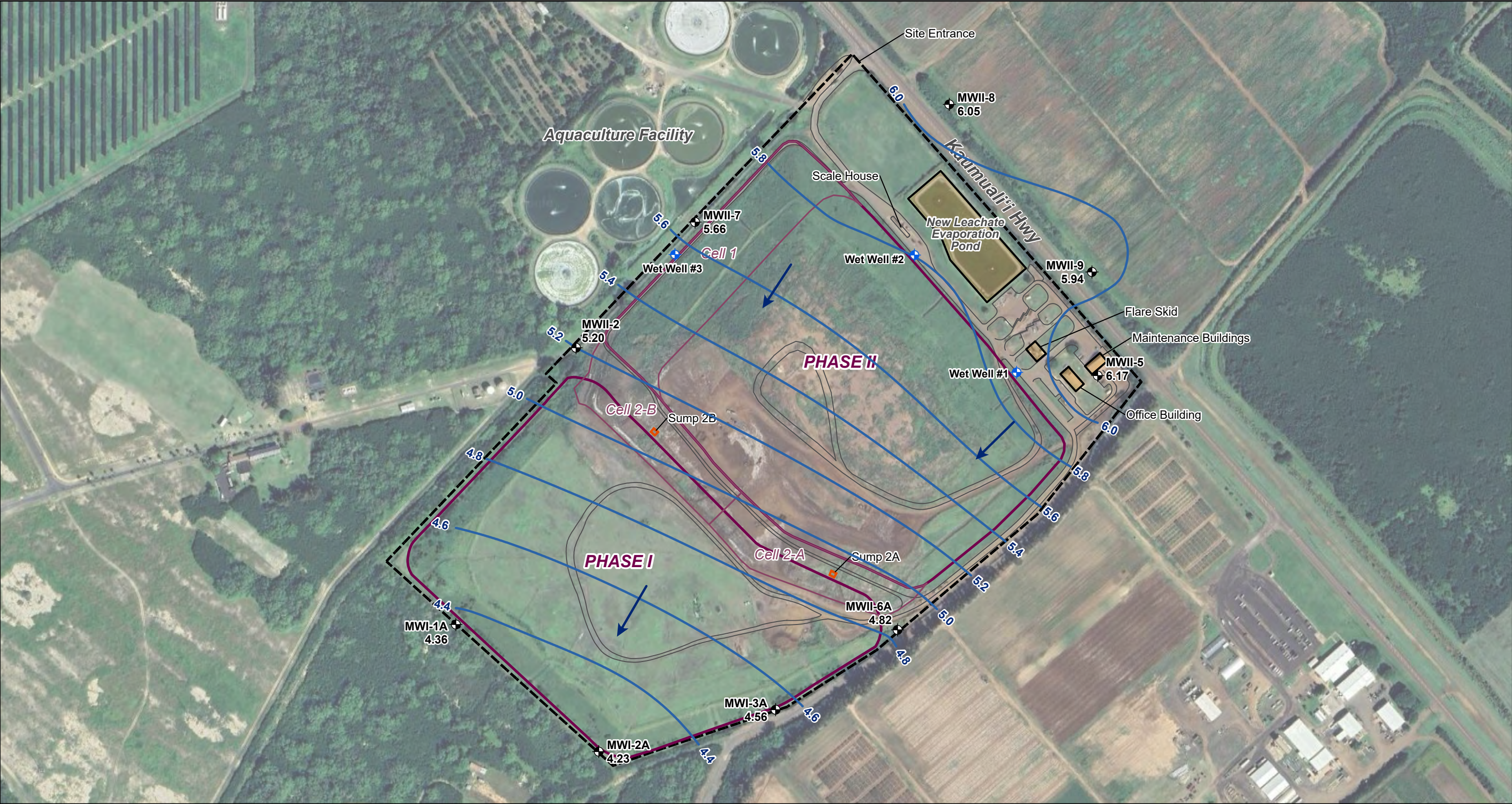
On May 2, 2026, Geosyntec personnel measured water levels at the monitoring wells prior to purging and sample collection. During the monitoring event, nine monitoring wells were inspected and conditions for each were documented in field notes. No issues with the well conditions were identified.

The groundwater elevations, estimated contours, and inferred groundwater flow directions for the Second Quarter 2026 monitoring event are presented below in Figure 3. The Second Quarter 2026 depth-to-groundwater measurements and the calculated water table elevations for the monitoring wells are presented in Table 1.

Quality control samples were also collected during monitoring:

- A duplicate groundwater sample was collected from MWII-5 (MWII-5 DUP), a field blank was collected during groundwater monitoring, and trip blank samples were transported with the samples in shipments to the laboratory.

The samples were preserved and transported with the appropriate chain-of-custody documentation to TestAmerica Laboratories Inc (a Eurofins Environment Testing Company) (TA). TA received the two shipments on May 6 and 14, 2026. The field information forms are contained in Appendix A.



Legend

MWI-1A
4.36

Groundwater Monitoring Well

Wet Well (Leachate Sump)

Groundwater Elevation Contour (ft msl)

Inferred Groundwater Flow Direction

Sump Location

Phase Boundary

Cell Boundary

Property Boundary

Roads

Notes:
ft msl = feet above mean sea level
- Monitoring wells were gauged on May 10, 2026 except for MWII-2, MWII-5, and MWII-7 which were gauged on May 2, 2026.
- TOC elevation data provided by Esaki Survey and Mapping, Inc. from November 2025 except for wells MWII-6A, MWII-8, and MWII-9 which were surveyed by Honua Engineering, Inc. in February 2026.
- Aerial imagery source: Google Earth, February 2024.

**Groundwater Contour Map
May 2, 2026**

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

Geosyntec
consultants

WG3074/26007304

July 2026

Figure

3

\\oakland-01\data\GIS\WM\Kekaha\Project\2026Q2_GWMR\Figures.aprx\Fig03_GroundwaterElevation_AllDataPoints 6/25/2026 4:14 PM (kwalton)

Table 1: Groundwater Level Data (May 2, 2026)

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	14.37	4.5-19.5	10.01	4.36
MWI-2A	13.16	4.5-19.5	8.93	4.23
MWI-3A	13.89	4.5-19.5	9.33	4.56
MWII-2	15.66	4.0-14.0	10.46	5.20
MWII-5	13.68	3.0-13.0	7.51	6.17
MWII-6A	14.71	5.5-15.5	9.89	4.82
MWII-7	15.74	3.5-23.5	10.08	5.66
MWII-8	14.73	5.5-15.5	8.68	6.05
MWII-9	16.98	5.5-24.0	11.04	5.94

Notes:

ft = feet

msl = mean sea level.

Monitoring wells are constructed with 2-inch diameter polyvinyl chloride (PVC).

Top-of-casing elevation data provided by Esaki Survey and Mapping, Inc., from November 2025 well survey elevations. Honua Engineering, Inc., surveyed Wells MWII-6A, MWII-8, and MWII-9 in February 2026.

2.2 Laboratory Analyses of Monitoring Well Groundwater Samples

Groundwater samples were submitted to TA for analytical testing of the following parameters

- Appendix I of 40 CFR 258 parameters—volatile organic compounds (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 I Landfill monitoring wells are provided in Appendix B,³ and the laboratory reports are contained in Appendix C. The

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

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 were not detected above laboratory reporting limits (RLs). 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 2026 monitoring event to comply with Hawai‘i HAR 11-58.1-16(e).

2.3 Evaluation of Groundwater Data Quality

Geosyntec performed a data quality review (DQR) of the groundwater analytical data for this sampling event. The DQR was based on the USEPA Stage 2A data validation, with minor modifications designed to meet internal data quality. Laboratory quality assurance/quality control (QA/QC) sample results (including a combination of blanks, blank spike and spike duplicate, matrix spike and spike duplicate, surrogate, and laboratory duplicate recoveries), laboratory-applied flags, and laboratory-provided analysis comments were reviewed. Based on this review, qualifier flags were assigned to the data where appropriate, which indicate data usability for study goals and objectives. Data qualifiers assigned to groundwater results for this monitoring round include:

- J qualifiers indicate the result is estimated. This includes results reported as detections below the RL.
- UJ qualifiers indicate the result was not detected at or above detection limits and the RL is estimated.

Groundwater sample results, including results not detected above laboratory RLs, with the applied qualifiers and qualifier rationale are included in Appendix C. The laboratory reports (Appendix C) also include the laboratory narrative regarding QA/QC issues.

Based on review of the laboratory QA/QC results, the results of the DQR, and review of the data qualifiers, the chemical analytical results are acceptable for use for project goals and objectives as qualified. Results assigned a J or UJ qualifier (estimated) may be used for site evaluation purposes, but the qualification is considered when interpreting sample concentrations. Values without qualification meet all data measurement quality objectives.

The laboratory documentation, case narrative, and a table documenting qualifiers are provided in Appendix C.

Table 2: Summary of Groundwater Analytical Results (May 3 and 11, 2026)

Analyte	Unit	MWI-1A	MWI-2A	MWI-3A	MWII-2	MWII-5	MWII-5 (DUP)	MWII-6A	MWII-7	MWII-8	MWII-9	Background ³	HI EALs ⁵	HAR MCLs ⁴
Volatile Organic Compounds (VOCs)														
All other VOCs Analyzed	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
Chlorobenzene	µg/L	1 U	0.3 J	1 U	1 U	1 UJ	1 U	1 U	1 U	1 U	1 U	-	25	-
Metals														
Antimony (Dissolved)	µg/L	20U	20U	20U	20U	20U	20U	6.2J	20U	20U	20U	-	30	6
Arsenic (Dissolved)	µg/L	5.2	69	12	5	10	10	7.3	3.4	3.2	3.4	130	36	10
Arsenic (Total)	µg/L	5.9	70	11	5.1	10	9.7	6.9	3.8	2.9	3.1	130	36	10
Barium (Dissolved)	µg/L	5.5 J	4 J	14	4.7 J	5.4 J	5.5 J	5.2 J	70	3.6 J	6.1 J	18	220	2,000
Barium (Total)	µg/L	5.9 J	4 J	14	4.6 J	5.5 J	5.9 J	5.3 J	72	3.8 J	6.5 J	18	220	2,000
Calcium (Dissolved)	µg/L	30,000	38,000	35,000	46,000	52,000	51,000	65,000	260,000	39,000	39,000	500,000	-	-
Calcium (Total)	µg/L	30,000	39,000	35,000	46,000	53,000	54,000	65,000	260,000	40,000	39,000	500,000	-	-
Cobalt (Dissolved)	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	2.3 J	5 U	5 U	-	19	-
Cobalt (Total)	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	2.2 J	5 U	5 U	-	19	-
Copper (Dissolved)	µg/L	15 U	15 U	15 U	15 U	15 U	15 U	15 U	9.1 J	15 U	15 U	-	2.9	-
Copper (Total)	µg/L	15 U	15 U	15 U	15 U	15 U	15 U	15 U	15	15 U	15 U	-	2.9	-
Iron (Dissolved)	µg/L	40 J	120	100 U	100 U	100 U	100 U	100 U	520	100 U	100 U	950	-	-
Iron (Total)	µg/L	170	240	100 U	100 U	100 U	100 U	100 U	1,000	100 U	100 U	950	-	-
Magnesium (Dissolved)	µg/L	81,000	110,000	26,000	72,000	110,000	110,000	89,000	460,000	53,000	51,000	870,000	-	-
Magnesium (Total)	µg/L	87,000	110,000	25,000	73,000	110,000	120,000	91,000	470,000	53,000	52,000	870,000	-	-
Manganese (Dissolved)	µg/L	10 U	5.1 J	8.3 J	10 U	10 U	10 U	11	540	9.9 J	20	-	-	-
Manganese (Total)	µg/L	3.9 J	5.1 J	8.7 J	10 U	3.7 J	3.6 J	12	560	9.7 J	19	-	-	-
Mercury (Dissolved)	µg/L	0.09 J	0.088 J	0.073 J	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.08 J	0.2 U	-	0.025	2
Mercury (Total)	µg/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.082 J	0.2 U	0.08 J	0.083 J	-	0.025	2
Nickel (Dissolved)	µg/L	20 U	10 J	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	40	5	-
Nickel (Total)	µg/L	20 U	10 J	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	40	5	-
Potassium (Dissolved)	µg/L	41,000	79,000	18,000	17,000	11,000	11,000	17,000	110,000	6,700	5,500	220,000	-	-
Potassium (Total)	µg/L	44,000	79,000	18,000	17,000	11,000	11,000	17,000	120,000	6,600	5,500	220,000	-	-
Selenium (Dissolved)	µg/L	20 U	20 U	20 U	20 U	16 J	16 J	20 U	20 U	20 U	20 U	15	5	50
Selenium (Total)	µg/L	20 U	20 U	20 U	20 U	17 J	19 J	20 U	20 U	20 U	20 U	15	5	50
Silicon (Dissolved)	µg/L	9,000	10,000	6,000	9,200	13,000	13,000	8,000	10,000	5,800	6,200	15,000	-	-
Silicon (Total)	µg/L	9,600	10,000	5,800	9,200	13,000	13,000	8,200	11,000	5,800	6,400	15,000	-	-
Sodium (Dissolved)	µg/L	91,000	210,000	37,000	140,000	120,000	110,000	57,000	3,100,000	65,000	52,000	7,700,000	-	-
Sodium (Total)	µg/L	100,000	220,000	35,000	140,000	120,000	120,000	60,000	3,000,000	66,000	53,000	7,700,000	-	-
Thallium (Dissolved)	µg/L	15 U	15 U	15 U	5.8 J	6.7 J	15 U	15 U	13 J	15 U	15 U	-	6	2
Thallium (Total)	µg/L	15 U	15 U	15 U	6.1 J	5.8 J	5.1 J	15 U	12 J	15 U	15 U	-	6	2
Tin (Dissolved)	µg/L	15 U	15 U	15 U	15 U	15 U	15 U	15 U	6.1 J	15 U	15 U	-	-	-
Tin (Total)	µg/L	15 U	15 U	15 U	15 U	15 U	15 U	15 U	5.6 J	15 U	15 U	-	-	-
Vanadium (Dissolved)	µg/L	5 U	5 U	1.6 J	4.3 J	5.8	5.4	4 J	3.9 J	3.3 J	4.2 J	10	27	-
Vanadium (Total)	µg/L	5 U	2 J	1.7 J	4.3 J	5.9	5.6	4.6 J	4.6 J	3.5 J	4.1 J	10	27	-
Zinc (Dissolved)	µg/L	13 J	20 U	20 U	20 U	20 U	20 U	20 U	16 J	20 U	20 U	20	22	-
Zinc (Total)	µg/L	12 J	20 U	20 U	20 U	20 U	20 U	20 U	11 J	20 U	20 U	20	22	-
All other metals analyzed	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-

Analyte	Unit	MWI-1A	MWI-2A	MWI-3A	MWII-2	MWII-5	MWII-5 (DUP)	MWII-6A	MWII-7	MWII-8	MWII-9	Background ³	HI EALs ⁵	HAR MCLs ⁴
Major Chemical Parameters														
Ammonia as Nitrogen (N)	mg/L	17	9.5	0.1 U	0.11	0.1 U	0.1 U	6.4	0.1 U	0.1 U	0.045 J	7.7	-	-
Bicarbonate Alkalinity	mg/L	550	680	210	340	380	390	460	340	250	310	553	-	-
Bromide	mg/L	0.52	2.2	0.5 U	0.92	1.4	1.5	0.45 J	20	0.72	0.52	-	-	-
Carbonate Alkalinity	mg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	7.1 J	7.9 J	-	-	-
Chemical Oxygen Demand (COD)	mg/L	21	28	36	20 U	20 U	20 U	17 J	66	11 J	13 J	280	-	-
Chloride	mg/L	100	260	29	180	130	130	51	6,000	110	53	14,000	-	-
Nitrate/Nitrite as N	mg/L	3.1	0.11 J	0.2 U	1.9	42	43	40	6.3	12	1.3	-	-	10
Sulfate	mg/L	55	130	40	61	61	60	67	810	47	54	1800	-	-
Total Alkalinity	mg/L	550	680	210	340	380	390	460	340	250	320	549	-	-
Total Dissolved Solids	mg/L	730	1,200	330	680	840	850	770	11,000	530	450	23,000	-	-
Total Organic Carbon	mg/L	8.1	7.5	14	3.2	1.6	1.7	5.9	2.6	3.8	2.1	6.4	-	-
Field Parameters														
Dissolved Oxygen	mg/L	1.47	7.6	0.85	6.6	4.7	4.7	0.74	4.4	0.92	1.51	-	-	-
eH/ORP	mV	-156	-77	-32	180	205	205	85	182	88	63	-	-	-
Electrical Conductivity	mS/cm	1.47	2.42	0.605	1.39	1.56	1.56	1.36	1.45	0.962	0.85	-	-	-
pH	pH units	7.28	7.26	7.76	7.57	7.1	7.1	7.14	7.37	7.7	7.6	-	-	-
Temperature	deg C	28.78	29.72	25.52	28.35	28.4	28.4	27.1	28.22	27.43	28.33	-	-	-
Turbidity	NTU	11.7	0.5	0.8	30.6	6.5	6.5	0.79	25.2	2.7	6.1	-	-	-

- Notes:**
- "MWI-X" represents groundwater monitoring well
 - Wells MWI-1, MWI-2, and MWI-3 were decommissioned and replaced with MWI-1A, MWI-2A, and MWI-3A in May 2019
 - Background limits from AECOM.
 - HAR Chapter 11-20 maximum contaminant levels (MCLs) established for drinking water. In the absence of state MCLs, the National Primary Drinking Water Regulations is used instead.
 - HI EAL = Hawai‘i Environmental Action Levels (EALs) obtained from Table D-1c (2024) for groundwater that is not a current or potential drinking water source.
 - Bold** text indicates the detected concentration exceeds the statistically established laboratory reporting limit (RL).
 - Blue highlighted cells indicate that the value has exceeded the background limits (only applies to MWI-1A, MWI-2A, and MWI-3A).
 - Red text indicates an exceedance of either the MCLs or EALs.
 - Dissolved concentration exceeding the total concentration is likely due to a range of error for analysis.
 - Semi-Volatile Organic Compounds (SVOCs), Pesticides/Herbicides, Polychlorinated Biphenyls (PCBs), Total Sulfide, Total Cyanide, and Dioxins are only sampled once a year in Q1.

Abbreviations:
µg/L = micrograms per liter
mS/cm = milliSiemens per centimeter
deg C = degrees Celsius
EAL = Environmental Action Level
eH/ORP = redox potential/oxidation reduction potential
J = Result is estimated.
MCL = Maximum Contaminant Level
mg/L = milligrams per liter
mV = millivolts
ND = not detected above the RL
ng/L = nanograms per liter
NTU = nephelometric turbidity unit
RL = Laboratory Reporting Limit
pH = potential of Hydrogen
U = not detected at or above the reporting limit shown

2.4 Groundwater Monitoring Results

2.4.1 Groundwater Flow Direction

As shown in Table 1 and Figure 3, groundwater elevations during the Second Quarter 2026 monitoring event ranged from 4.23 ft above msl in MWI-2A to 6.17 ft msl in MWII-5. The hydraulic gradient and inferred groundwater flow directions are generally to the southwest (toward the Pacific Ocean), which is typical of most historical monitoring events.

2.4.2 Groundwater Sample Analyses

The laboratory reports with analytical results for Second Quarter 2026 groundwater monitoring are provided in Appendix C. The results are also summarized below (and in Table 2) by analytical group: VOCs, total/dissolved metals, major chemical parameters (general chemistry), and field parameters. In Table 2, when none of the individual analytes in a group were detected above laboratory RLs, the results are presented as a singular “ND” (or not detected) for the group; however, individual results can be reviewed in Appendix C. Note that the 10 samples referenced below includes one duplicate sample and nine groundwater wells.

Volatile Organic Compounds—One VOC was detected at an estimated concentration at MWI-2A (0.3J µg/L) for chlorobenzene. All other samples were not detected above RLs in groundwater samples from the monitoring wells.

Dissolved Metals—The concentration ranges for dissolved metals detected above the MDL and/or RL are summarized below:

- Antimony was detected in 1 of the 10 samples at an estimated concentration of 6.2J µg/L in MWII-6A. Antimony was not detected above RLs in any of the other samples.
- Arsenic was detected in all 10 samples at concentrations ranging between 3.2 and 69 µg/L.
- Barium was detected in all 10 samples at concentrations ranging between 3.6J and 70 µg/L.
- Calcium was detected in all 10 samples at concentrations ranging between 30,000 and 260,000 µg/L.
- Cobalt was detected in 1 of the 10 samples at an estimated concentration of 2.3J µg/L in MWII-7. Cobalt was not detected above the RLs in any of the other samples.
- Copper was detected in 1 of the 10 samples at an estimated concentration of 9.1J µg/L in MWII-7. Copper was not detected above the RLs in any of the other samples.
- Iron was detected in 3 of the 10 samples at concentrations ranging between 40J and 520 µg/L in MWI-1A, MWI-2A, and MWII-7. Iron was not detected above the RLs in any of the other samples.

- Magnesium was detected in all 10 samples at concentrations ranging between 26,000 to 460,000 µg/L.
- Manganese was detected in 6 of the 10 samples at concentrations ranging between 5.1J and 540 µg/L. Manganese was not detected above the RLs in MWI-1A, MWII-2, MWII-5, and the DUP sample.
- Mercury was detected in 4 of the 10 samples at concentrations ranging between 0.073J and 0.09J µg/L in MWI-1A, MWI-2A, MWI-3A, and MWII-8. Mercury was not detected above RLs in any of the other samples.
- Nickel was detected in 1 of the 10 samples at an estimated concentration of 10J µg/L in MWI-2A. Nickel was not detected above the RLs in any of the other samples.
- Potassium was detected in all 10 samples at concentrations ranging between 5,500 and 110,000 µg/L.
- Selenium was detected in 2 of the 10 samples at estimated concentrations of 16J µg/L in MWII-5 and the DUP. Selenium was not detected above the RLs in any of the other samples.
- Silicon was detected in all 10 samples at concentrations ranging between 5,800 and 13,000 µg/L.
- Sodium was detected in all 10 samples at concentrations ranging between 37,000 and 3,100,000 µg/L.
- Thallium was detected in 3 of the 10 samples at concentrations ranging between 5.8J and 13J µg/L in MWII-2, MWII-5, and MWII-7. Thallium was not detected above the RLs in any of the other samples.
- Tin was detected in 1 of the 10 samples at an estimated concentration of 6.1J µg/L in MWII-7. Tin was not detected above the RLs in any of the other samples.
- Vanadium was detected in 8 of the 10 samples at concentrations ranging between 1.6J and 5.8 µg/L. Vanadium was not detected above the RLs in MWI-1A or MWI-2A.
- Zinc was detected in 2 of the 10 samples at estimated concentrations ranging between 13J and 16J µg/L in MWI-1A and MWII-7. Zinc was not detected above the RLs in any of the other samples.

Total Recoverable Metals—The total recoverable metals results, which include metals associated with suspended particles, are provided in Table 2. The results for all other total metals are summarized below.

- Arsenic was detected in all 10 samples at concentrations ranging between 2.9 and 70 µg/L.
- Barium was detected in all 10 samples at concentrations ranging between 3.8J and 72 µg/L.

- Calcium was detected in all 10 samples at concentrations ranging between 30,000 and 260,000 µg/L.
- Cobalt was detected in 1 of the 10 samples at an estimated concentration of 2.2J µg/L in MWII-7. Cobalt was not detected above the RLs in any of the other samples.
- Copper was detected in 1 of the 10 samples at a concentration of 15 µg/L at MWII-7. Copper was not detected above the RLs in any of the other samples.
- Iron was detected in 3 of the 10 samples at concentrations ranging between 170 and 1,000 µg/L in MWI-1A, MWI-2A, and MWII-7. Iron was not detected above the RLs in any of the other samples.
- Magnesium was detected in all 10 samples at concentrations ranging between 25,000 and 470,000 µg/L.
- Manganese was detected in 9 of the 10 samples at concentrations ranging between 3.6J and 560 µg/L. Manganese was not detected above the RL in MWII-2.
- Mercury was detected in 3 of the 10 samples at estimated concentrations ranging between 0.08J and 0.083J µg/L in MWII-6A, MWII-8, and MWII-9. Mercury was not detected above the RLs in any of the other samples.
- Nickel was detected in 1 of the 10 samples at an estimated concentration of 10J µg/L in MWI-2A. Nickel was not detected above the RLs in any of the other samples.
- Potassium was detected in all 10 samples at concentrations ranging between 5,500 and 120,000 µg/L.
- Selenium was detected in 2 of the 10 samples at concentrations ranging between 17J and 19J µg/L in MWII-5 and the DUP sample. Selenium was not detected above RLs in any of the other samples.
- Silicon was detected in all 10 samples at concentrations ranging between 5,800 and 13,000 µg/L.
- Sodium was detected in all 10 samples at concentrations ranging between 35,000 and 3,000,000 µg/L.
- Thallium was detected in 4 of the 10 samples at estimated concentrations ranging between 5.1J and 12J µg/L in MWII-2, MWII-5, the DUP, and MWII-7. Thallium was not detected above the RLs in any of the other samples.
- Tin was detected in 1 of the 10 samples at an estimated concentration of 5.6J µg/L in MWII-7. Tin was not detected above the RLs in any of the other samples.
- Vanadium was detected in 9 of the 10 samples at concentrations between 1.7J and 5.9 µg/L. Vanadium was not detected above the RLs in MWI-1A.
- Zinc was detected in 2 of the 10 samples at estimated concentrations ranging between 11J and 12J µg/L in MWI-1A and MWII-7. Zinc was not detected above RLs in any of the other samples.

Major Chemical Parameters—The groundwater samples were analyzed for ammonia as N, nitrate/nitrite as N, bromide, chloride, sulfate, total alkalinity, carbonate alkalinity, bicarbonate alkalinity, TDS, and TOC to provide data for geochemical evaluation. The results are summarized below:

- Ammonia as nitrogen was detected in 5 of the 10 samples at concentrations ranging between 0.045J and 17 mg/L. Two samples were detected above the estimated background concentrations of 7.7 mg/L in MWI-1A (17 mg/L) and in MWI-2A (9.5 mg/L).
- Bicarbonate Alkalinity was detected in all 10 samples at concentrations ranging between 210 and 680 mg/L. Bicarbonate was detected above the estimated background concentration of 553 mg/L in MWI-2A (680 mg/L).
- Bromide was detected in 9 of the 10 samples at concentrations ranging between 0.45J and 20 mg/L. Bromide was not detected above the RLs in MWI-3A.
- Carbonate Alkalinity was detected in 2 of the 10 samples at concentrations ranging between 7.1J and 7.9J mg/L in MWII-8 and MWII-9. Carbonate alkalinity was not detected in any of the other samples.
- Chloride was detected in all 10 samples at concentrations ranging between 29 and 6,000 mg/L.
- Nitrate/nitrite as N was detected in 9 of the 10 samples at concentrations ranging between 0.11J and 43 mg/L. Nitrate/nitrite as N was not detected above the RLs in MWI-3A.
- Sulfate was detected in all 10 samples at concentrations ranging between 40 and 810 mg/L.
- Total alkalinity was detected in all 10 samples at concentrations ranging between 210 and 680 mg/L. Two samples exceeded the estimated background concentration of 549 mg/L in MWI-1A (550 mg/L) and MWI-2A (680 mg/L).
- TDS was detected in all 10 samples at concentrations ranging between 330 and 11,000 mg/L.
- TOC was detected in all 10 samples at concentrations ranging between 1.6 and 14 mg/L. Three samples exceeded the estimated background concentration of 6.4 mg/L in MWI-1A (8.1 mg/L), MWI-2A (7.5 mg/L), and MWI-3A (14 mg/L).

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 in 7 of 10 samples at concentrations ranging between 11J and 66 mg/L. COD was not

detected above RLs in MWII-2, MWII-5, and the DUP sample. The results of these analyses were evaluated for evidence of potential landfill impacts to groundwater using the statistical methods described below.

2.4.3 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 statistical analysis for the aforementioned 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 July 21, 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 October 3, 2022, requesting that additional data be included to estimate background limits.

The County and Geosyntec met with the DOH on August 31, 2022, to discuss the installation of three new monitoring wells, MII-6A, MWII-8, and MWII-9 (Figure 2). MWII-6A was proposed for the southeast side of the landfill and would provide cross-gradient groundwater data. MWII-8 and MWII-9 were proposed mauka (inland side) of the landfill, on the northeast side of the Kaumuali'i Highway, and would provide upgradient groundwater data to establish background limits for the detection monitoring network.

The DOH concurred with the proposed locations of the new monitoring wells, and all three wells were installed in November 2025, and completed in early 2026 with quarterly groundwater monitoring beginning in First Quarter 2026. The three new wells (MWII-6A, MWII-8, and

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.

MWII-9) were installed between November 3 and 7, 2025, by Valley Well Drilling, LLC, Kapolei, Hawai‘i, and a Geosyntec geologist characterized the lithology as presented on the boring logs (Geosyntec 2026). MWII-6A is intended to provide cross-gradient groundwater data, and the two wells mauka of the landfill (MWII-8 and MWII-9) are intended to provide upgradient groundwater data to establish background limits for the detection monitoring network.

2.4.4 Phase II Landfill Monitoring Wells

The analytical results for groundwater samples collected from monitoring wells around the Phase II Landfill footprint were evaluated for 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 Second Quarter 2026 sampling event. At least eight historical independent samples are needed to reliably calculate parameters (e.g., mean, standard deviation) for background control limits. These samples are referred to as the background dataset for a given well. In addition, 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.

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:

- Neither a background control limit, nor a CUSUM value was computed for dissolved iron. However, the detection of dissolved iron at a concentration of 0.52 mg/L appears inconsistent with available background data, which is non-detected results.
- 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 1.00 mg/L appears inconsistent with available background data, which is mostly non-detected results.
- The detected dissolved manganese concentration and CUSUM value of 0.54 mg/L exceeded statistical background control limit.
- The total manganese detected concentration and CUSUM value of 0.56 mg/L exceeded the statistical background control limit.
- The COD detected concentration value of 66.00 mg/L and CUSUM value of 61.68 mg/L 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 (BOD) and likely reducing conditions associated with the aquaculture facility operations northwest (and sporadically hydraulically upgradient) of the landfill, not a release from the Phase II Landfill. Total and dissolved manganese have exceeded the statistical background control limit but are not specifically called out in the SSI because quarterly monitoring and annual Appendix II analysis is already occurring.

2.5 Monitoring Results Summary and Conclusions

Findings and conclusions from the groundwater monitoring are summarized below:

- One VOC (chlorobenzene) was detected in MWI-2A at an estimated concentration of 0.3J µg/L. Although the compound was detected, the concentration was reported as a J-qualified estimated value because it was above the MDL but below the practical quantitation limit, indicating that the laboratory detected the compound but could not reliably quantify its concentration. No VOCs were detected in the remaining monitoring wells above RLs.
- Ammonia as N exceeded the background limits in MWI-1A and MWI-2A.
- Bicarbonate alkalinity exceeded the background limits in MWI-2A.
- Total alkalinity exceeded the background limits in MWI-1A and MWI-2A.
- TOC exceeded the background limits in MWI-1A, MWI-2A, and 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. One VOC was detected in MWI-2A at an estimated concentration below the EAL. No other VOCs were detected above laboratory RLs in groundwater samples from the monitoring wells. A VOC 1,2-

Dibromo-3-chloropropane was not detected in any monitoring wells, however the RL is above the EAL. The other VOCs in wells did not exceed MCLs or EALs.

- Dissolved antimony exceeded the MCL in MWII-6A. The result was estimated as the detection was below the RL but equal to or greater than the MDL.
- Dissolved arsenic exceeded the MCL in MWI-2A and MWI-3A. Dissolved arsenic also exceeded the EAL in MWI-2A.
- Total arsenic exceeded the MCL in MWI-3A and exceeded the MCL and EAL in MWI-2A.
- Total copper exceeded the EAL and dissolved copper was estimated and reported above the EAL in MWII-7. The dissolved copper result was estimated as the detection was below the RL but equal to or greater than the MDL.
- Dissolved mercury results were estimated and reported above the EALs in MWI-1A, MWI-2A, MWI-3A, and MWII-8. The results were estimated as the detections were below the RL but equal to or greater than the MDL.
- Total mercury exceeded EALs in MWII-6A, MWII-8, and MWII-9. The results were estimated as the detections were below the RL but equal to or greater than the MDL.
- Total and dissolved nickel exceeded the EAL in MWI-2A. The results were estimated as the detection were below the RL but equal to or greater than the MDL.
- Total and dissolved selenium exceeded the EAL in MWII-5 and the DUP sample. The results were estimated as the detections were below the RL but equal to or greater than the MDL.
- Total thallium exceeded MCLs in MWII-2, MWII-5, the DUP sample, and MWII-7. Total thallium also exceeded the EAL in MWII-2 and MWII-7. The results were estimated as the detection were below the RL but equal to or greater than the MDL.
- Dissolved thallium exceeded the MCL in MWII-2, MWII-5, and MWII-7. Dissolved thallium exceeded the EAL in MWII-5 and MWII-7. The results were estimated as the detection were below the RL but equal to or greater than the MDL.
- Nitrate/nitrite as N exceeded the MCL in MWII-5, the DUP sample, MWII-6A, and MWII-8.
- One VOC, 1,2-Dibromo-3-chloropropane, and several metals have EALs that are below the MDLs for laboratory results. These metals include mercury, nickel, and selenium.

- 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 II Landfill.
- Total and dissolved manganese exceeded statistical background limits at MWII-7.

These findings are consistent with previous monitoring events.

Elevated concentrations of arsenic in groundwater at the KLF have been previously addressed in the Waste Management of Hawai‘i, Inc. (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 the partitioning of arsenic between soil and groundwater.

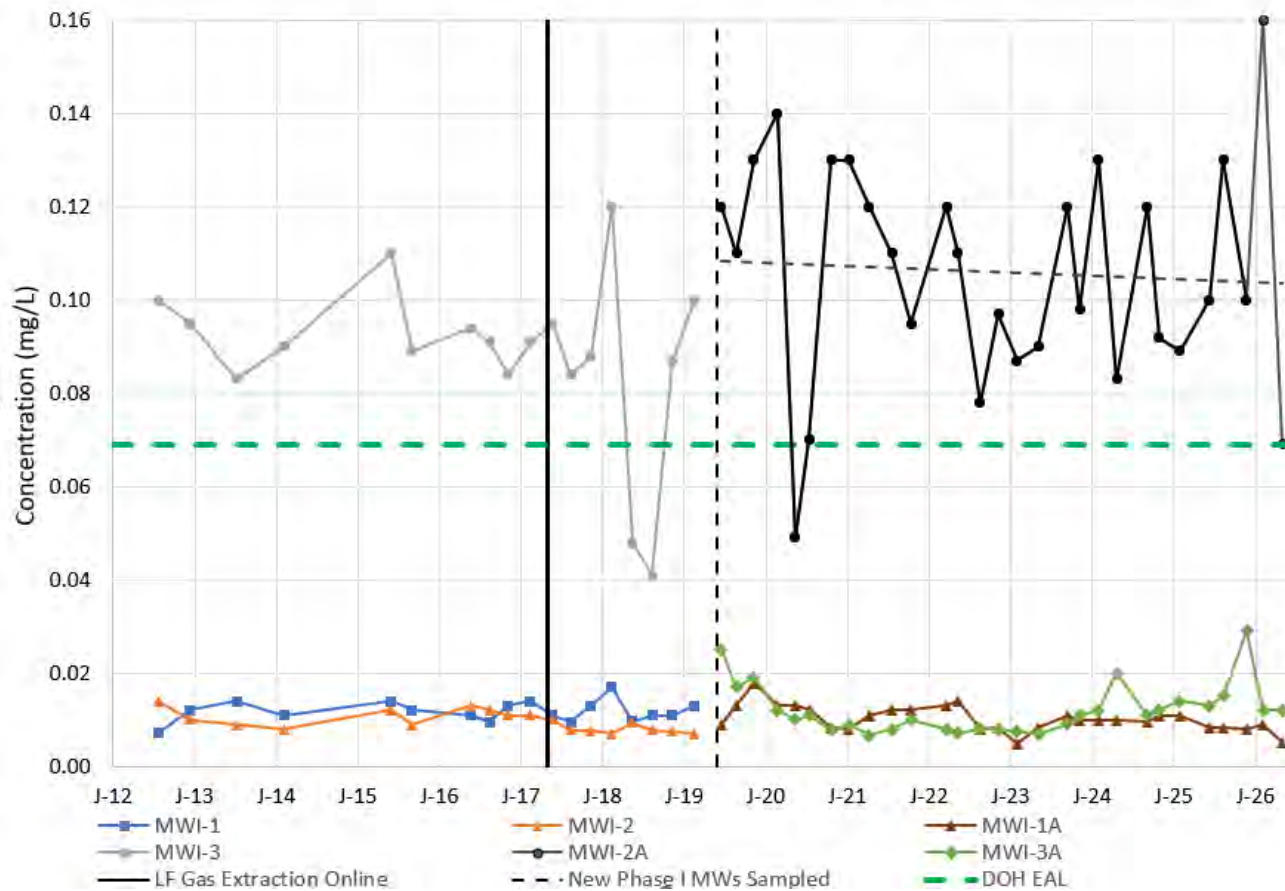
Elevated background concentrations of arsenic in soil and groundwater near the KLF are likely associated with naturally occurring arsenic in volcanic soils, as well as arsenic-based herbicides and pesticides used at sugarcane plantations, as has been documented for many locations in Hawai‘i, including the vicinity of Kekaha on Kaua‘i (DOH 2011; Geosyntec 2020). The dissolved arsenic concentration of 10 µg/L at MWII-5, which is at the northeastern (upgradient) corner of KLF, supports that the landfill is not the source of the arsenic detections. However, initial arsenic concentrations detected in the new upgradient monitoring wells (MWII-8 and MWII-9), which are just inland of the Kaumuali‘i Highway are below the MCL. Future data from these three monitoring wells that are upgradient of the KLF will be helpful to further evaluate background arsenic concentrations in the vicinity of the KLF.

In addition, as has been discussed with and submitted to the DOH (WMH 2018), oxygen-depleted reducing conditions associated with the presence of the KLF and methane generation 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. However, 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).

The graph below shows concentrations of dissolved arsenic with time in groundwater samples from the Phase I monitoring wells. The inset map shows the locations of the monitoring wells and the typical range of the groundwater gradient directions. 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 dissolved arsenic at MWI-2A are similar to historical values of arsenic detected at MWI-3 except for the First Quarter 2026 monitoring event when the dissolved arsenic in MWI-2A was the highest to date. Further quarterly monitoring is necessary to

determine if the 160 µg/L result for MWI-2A is an outlier. In the Second Quarter sampling event, the dissolved arsenic concentration decreased from 160 µg/L in the First Quarter to 69 µg/L. The longer-term trend appears generally decreasing, although the Q1 2026 result was elevated.

Dissolved Arsenic in Phase 1 Monitoring Wells



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

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 such as iron, manganese, and arsenic 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 monitoring wells are included in Appendix B.

The two new monitoring wells mauka of the highway will provide background data upgradient of the KLF. If deemed necessary, in addition to the mauka wells, the County plans to 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 in the future. Access agreements for well installation are currently being evaluated for these downgradient wells. In addition, installation of these wells will be determined following sample analysis from the upgradient wells, after background has been established.

The Sanifill 1998 ASD report, which DOH approved, concluded that TOC and ammonia in groundwater may be attributable to biodegradation of large quantities of organic matter (e.g., sugarcane vegetation) placed as fill material near and upgradient of monitoring well MWII-6 (Figure 2) 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.

In addition, 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 (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 to 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 concentration 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 7 mg/L in MWI-1A, 10 mg/L in MWI-2A, and 5 mg/L in MWI-3A. In this Second Quarter sampling event, TOC rose to 14 mg/L in MWI-3A. Data collection will continue to determine if this trend continues.

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 with a recent increase throughout 2024 and a decrease in 2025. Currently, in MWI-3A, ammonia as N was not detected. In MWI-1A and MWI-2A, ammonia fluctuated in 2022 and in 2024 before appearing to decrease over time in 2023, 2025, and 2026.

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-adjointing 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 have decreased compared to the Third Quarter 2023 and represent a multiyear low; however, chloride, sulfate, and TDS concentrations in MWI-3A fluctuated throughout 2024 and through 2025. Future monitoring will help to evaluate potential external influences on the groundwater chemistry in the vicinity of the KLF.

In November 2025, two new monitoring wells (MWII-8 and MWII-9) were installed mauka of the highway upgradient of the KLF and one new monitoring well (MWII-6A) was installed along the southeast side of the landfill. In the First Quarter of 2026, arsenic concentrations were below the MCL of 10 µg/L in MWII-8, MWII-9, and MWII-5, which is in the northeast corner of the KLF and an upgradient monitoring well. In the Second Quarter 2026, dissolved arsenic was at the MCL of 10 µg/L in MWII-5 but remained below the MCL in MWII-8 and MWII-9. The concentration of dissolved mercury, total mercury, and nitrate/nitrite as N exceeded either EALs or MCLs in MWII-8. The concentration of total mercury exceeded EALs in MWII-9. The variability in metals concentrations may be related to local redox conditions, naturally occurring metals in the volcanic soils, and herbicides and pesticides associated with agriculture in the vicinity. Continued quarterly monitoring will help to evaluate background conditions and geochemical conditions at these new monitoring wells.

As is discussed elsewhere in this report 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 and associated elevated concentrations of some dissolved metals such as iron, manganese, and arsenic. Elevated concentrations of ammonia have been detected historically at MWII-7 (Appendix D), which is adjacent to the aquaculture facility.

2.6 Phase I Quarterly Site Inspection

On May 14, 2026, the Second Quarter 2026 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 stormwater controls were inspected for any signs of failure or maintenance needs and for proper stormwater drainage. A summary of the site inspection is as 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 stormwater.
- **Stormwater Drainpipe Inlets:** All drainage inlets were cleared of debris, unobstructed, and silt socks around the inlets appeared to be intact.
- **Stormwater 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. The County has continued to mow Phase I and II with additional mowing of the outer perimeter of Phase I.
- **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.):** A vehicle hit the front left side of the gate, and the gate was damaged. The County has placed a work order for the front left gate to be repaired. The gate is still operational and can be secured.

3. LEACHATE MONITORING

No leachate samples were collected during the Second Quarter 2026 monitoring event. The Permit requires 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 2026 monitoring event.

4. REFERENCES

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APPENDIX A

Field Information Forms

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>5/3/26</u>
Site Location: <u>Kauai, HI</u>	Depth to Water (DTW)(ft): <u>1046</u>	Measurements Referenced to: <u>TOC</u>	
Well ID: <u>mw 11-2</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: Hanna 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)	—	—	—
1031	10.49	77.6	3.05	7.56	1.64	179	28.26	200	600
1034	10.49	60.7	4.08	7.52	1.50	179	28.22	200	1200
1037	10.49	43.7	6.89	7.55	1.41	177	28.22	200	1800
1040	10.49	46.3	6.86	7.56	1.40	177	28.28	200	2400
1043	10.50	42.5	6.82	7.56	1.40	177	28.30	200	3000
1046	10.50	39.1	6.77	7.57	1.39	179	28.33	200	3600
1049	10.50	36.3	6.70	7.57	1.39	180	28.33	200	4200
1052	10.50	32.1	6.64	7.57	1.39	180	28.35	200	4800
1055	10.50	30.6	6.60	7.57	1.39	180	28.35	200	5400
GAI									

Notes:

Sampled 1055

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: <u>WG 3074</u>		Task No: <u>01/13</u>		Project Name: <u>Kekaha Landfill</u>		Date: <u>5/3/26</u>	
Site Location: <u>Kauai, HI</u>		Depth to Water (DTW)(ft): <u>7.51</u>		Measurements Referenced to: TOC			
Well ID: <u>mw 11-5</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 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)	—	—	—
0914	7.54	20.9	9.20	7.98	1.56	174	28.23	350	1050
0917	7.54	20.5	5.76	7.45	1.56	179	28.27	350	2100
0920	7.54	20.1	5.73	7.40	1.56	183	28.30	350	3150
0923	7.55	19.7	5.83	7.33	1.56	189	28.34	350	4200
0926	7.55	17.8	6.80	7.26	1.56	193	28.33	350	5250
0929	7.55	7.1	4.25	7.12	1.56	200	28.40	350	6300
0932	7.56	6.9	4.40	7.11	1.56	202	28.39	350	7350
0935	7.56	6.5	4.70	7.10	1.56	205	28.40	350	8400
CAH									

Notes:

Sampled 0935

Total Gallons Purged:

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

Sample ID and Analysis: mw 11-5

Duplicate Sample: mw 11-5 Dup

Equipment Blank:

Groundwater Purging and Sampling Log

6900D Kaunualii Hwy
Kekaha, Hawaii 96752
PH 808.337.1416

Project No: <u>W63074</u>		Task No: <u>01/1.3</u>		Project Name: <u>Kekaha Landfill</u>		Date: <u>5/3/20</u>	
Site Location: <u>Kauai, HI</u>		Depth to Water (DTW)(ft): <u>1008</u>		Measurements Referenced to: TOC			
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: 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)	—	—	—
1115	10.05	61.3	4.10	7.42	1.47	183	28.27	350	1050
1118	10.05	54.2	4.25	7.42	1.47	181	28.26	350	2100
1121	10.05	37.6	4.36	7.38	1.47	182	28.24	3.50	3050
1124	10.06	35.2	4.37	7.38	1.46	182	28.24	3.50	4100
1127	10.06	29.4	4.38	7.37	1.45	182	28.23	350	5150
1130	10.06	27.4	4.40	7.37	1.45	182	28.22	350	6200
1133	10.07	25.2	4.40	7.37	1.45	182	28.22	350	7250

Notes: Sampled 1133

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: —

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>5/11/26</u>
Site Location: <u>Kauai, HI</u>		Depth to Water (DTW)(ft): <u>10.15</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)	—	—	—
0636	10.14	8.5	4.37	7.15	1.50	-135	28.37	400	1200
0639	10.14	13.9	3.24	7.20	1.49	-135	28.52	400	2400
0642	10.14	14.7	2.49	7.21	1.48	-138	28.56	400	3600
0645	10.14	14.3	2.23	7.23	1.47	-143	28.54	400	4800
0648	10.15	14.6	1.96	7.25	1.47	-150	28.66	400	6000
0651	10.15	13.3	1.64	7.27	1.47	-153	28.75	400	7200
0654	10.16	12.6	1.50	7.28	1.47	-154	28.76	400	8400
0657	10.16	11.7	1.47	7.28	1.47	-156	28.78	400	9600
G A H									

Notes:

Sampled 0657

Total Gallons Purged: —

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

Sample ID and Analysis: mw1-1A

Duplicate Sample: N/A

Equipment Blank: —

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>5/11/26</u>
Site Location: <u>Kauai, HI</u>	Depth to Water (DTW)(ft): <u>9.01</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-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)	—	—	—
07:48	8.99	1.9	166	7.24	2.46	-67	29.64	350	1050
07:51	8.99	1.7	143	7.24	2.46	-68	29.67	350	2100
07:54	9.00	1.4	129	7.23	2.45	-73	29.69	350	3150
07:57	9.00	1.3	115	7.24	2.45	-73	29.70	350	4200
08:00	9.01	1.0	100	7.24	2.44	-76	29.72	350	5250
08:03	9.01	.8	98	7.24	2.44	-77	29.72	350	6300
08:06	9.01	.7	91	7.25	2.43	-77	29.72	350	7350
08:09	9.01	.5	82	7.25	2.43	-77	29.72	350	8400
08:12	9.01	.5	76	7.26	2.42	-77	29.72	350	9450
GAH									

Notes:

Sampled 0812

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>W63074</u>		Task No: <u>01/1.3</u>		Project Name: <u>Kekaha Landfill</u>		Date: <u>5/11/26</u>	
Site Location: <u>Kauai, HI</u>		Depth to Water (DTW)(ft): <u>9.39</u>		Measurements Referenced to: <u>TOC</u>			
Well ID: <u>mw1-3A</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-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)	—	—	—
0855	9.41	2.6	1.85	7.64	0.618	-9	25.70	3.75	1125
0858	9.41	2.1	1.88	7.65	0.617	-12	25.58	3.75	2250
0901	9.41	1.9	1.59	7.66	0.594	-28	25.52	3.75	3375
0904	9.41	1.4	1.48	7.67	0.597	-30	25.53	3.75	4500
0907	9.42	0.9	.98	7.67	0.601	-31	25.52	3.75	5625
0910	9.42	0.8	.85	7.67	0.605	-32	25.52	3.75	6750

Notes:

Sampled 0910

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

6900D Kaumuali'i 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>5 / 11 / 26</u>	
Site Location: <u>Kauai, HI</u>		Depth to Water (DTW)(ft): <u>10.14</u>		Measurements Referenced to: <u>TOC</u>			
Well ID: <u>mw 11-6A</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: Hanna 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)	—	—	—
0955	10.10	11.6	2.57	7.19	1.34	91	27.01	150	450
0958	10.10	9.5	2.29	7.17	1.33	91	27.05	150	900
1001	10.10	8.9	1.98	7.15	1.35	90	27.08	150	1350
1004	10.10	6.4	1.76	7.15	1.35	90	27.09	150	1800
1007	10.10	5.1	1.56	7.15	1.35	89	27.10	150	2250
1010	10.11	3.6	1.32	7.15	1.35	89	27.10	150	2700
1013	10.11	1.5	.99	7.14	1.36	87	27.10	150	3150
1016	10.11	.96	.82	7.14	1.36	85	27.11	150	3600
1019	10.11	.87	.79	7.14	1.36	86	27.11	150	4050
1022	10.11	.82	.75	7.14	1.36	85	27.10	150	4500
1025	10.11	.79	.74	7.14	1.36	85	27.10	150	4950

Notes:

Sampled 1025

Total Gallons Purged: —

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

Sample ID and Analysis: mw 11-6A

Duplicate Sample: N/A

Equipment Blank: —

Groundwater Purging and Sampling Log

Project No: W63074 Task No: 01/1.3 Project Name: Kekaha Landfill Date: 5/11/20

Site Location: Kauai, HI Depth to Water (DTW)(ft): 8.71 Measurements Referenced to: TOC

Well ID: mw 11-8 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 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)	—	—	—
1239	8.72	15.0	2.44	7.74	0.955	83	28.11	150	450
1242	8.72	13.9	1.98	7.73	0.958	85	27.85	150	900
1245	8.72	12.3	1.47	7.72	0.958	86	27.59	150	1350
1248	8.72	11.1	1.42	7.71	0.960	86	27.56	150	1800
1251	8.73	8.3	1.17	7.71	0.962	87	27.49	150	2250
1254	8.73	6.1	1.08	7.70	0.963	87	27.46	150	2700
1257	8.73	5.2	1.00	7.70	0.962	87	27.44	150	3150
1300	8.73	4.6	.96	7.70	0.962	87	27.44	150	3600
1303	8.73	3.1	.95	7.70	0.962	88	27.43	150	4050
1306	8.73	2.9	.93	7.70	0.962	88	27.43	150	4500
1309	8.73	2.7	.92	7.70	0.962	88	27.43	150	4950

Notes:

Sampled 1309

Total Gallons Purged: —

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

Sample ID and Analysis: mw 11-8

Duplicate Sample: N/A

Equipment Blank: —

Groundwater Purging and Sampling Log

Project No: WB 3074 Task No: 01/1.3 Project Name: Kekaha Landfill Date: 5/11/26

Site Location: Kauai, HI Depth to Water (DTW)(ft): 11.07 Measurements Referenced to: TOC

Well ID: mw 11-9 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 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)	—	—	—
1105	11.05	22.9	3.33	6.15	0.372	218	28.54	150	450
1108	11.05	18.2	3.29	7.76	0.877	36	28.39	150	900
1111	11.05	13.9	2.41	7.68	0.863	45	28.30	150	1350
1114	11.05	12.7	2.07	7.64	0.859	49	28.25	150	1800
1117	11.05	13.7	1.89	7.63	0.854	53	28.22	150	2250
1120	11.05	10.5	1.80	7.63	0.852	54	28.25	150	2700
1123	11.06	8.9	1.57	7.62	0.850	57	28.27	150	3150
1126	11.06	7.9	1.66	7.61	0.850	60	28.29	150	3600
1129	11.06	6.5	1.59	7.61	0.850	61	28.31	150	4050
1132	11.06	6.4	1.56	7.61	0.850	62	28.31	150	4500
1135	11.06	6.1	1.51	7.60	0.850	63	28.33	150	4950

Notes:

Sampled 1135

Total Gallons Purged: —

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

Sample ID and Analysis: mw 11-9

Duplicate Sample: N/A

Equipment Blank: —

WELL CONDITION INSPECTION FORM

Site: Kekeha Landfill

Personnel: George A Hickson

Date: 5-11-26

Page 2 of 2

Well ID	Protective Casing	Well Casing	Label	Lock	Sample Equipment Type	General Turbidity	Well Yield	Comments/Observations *
MW1-1A	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	Horiba U-52	☒ Clear ☐ Turbid	☒ OK ☐ Inadequate	Heavy brush
MW1-2A	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	↓	☒ Clear ☐ Turbid	☒ OK ☐ Inadequate	Heavy brush
MW1-3A	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No		☒ Clear ☐ Turbid	☒ OK ☐ Inadequate	Heavy brush
MW1-6A	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No		☒ Clear ☐ Turbid	☒ OK ☐ Inadequate	Heavy brush
MW11-8	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No		☒ Clear ☐ Turbid	☒ OK ☐ Inadequate	Heavy brush
MW11-9	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No		☒ Clear ☐ Turbid	☒ OK ☐ Inadequate	Heavy brush
	☐ 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 INSPECTION FORM

Site: Kekaha Landfill

Personnel: George A. Hiebert

Date: 5-3-26

Page 1 of 2

Well ID	Protective Casing	Well Casing	Label	Lock	Sample Equipment Type	General Turbidity	Well Yield	Comments/Observations *
<u>mw11-5</u>	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☐ Yes ☒ No	<u>Horiba</u> <u>U-52</u>	☒ Clear ☐ Turbid	☒ OK ☐ Inadequate	<u>Surface</u>
<u>mw11-2</u>	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	<u>1</u>	☒ Clear ☐ Turbid	☒ OK ☐ Inadequate	<u>Heavy brush</u>
<u>mw11-7</u>	☒ OK ☐ Damaged	☒ OK ☐ Damaged	☒ OK ☐ Inadequate	☒ Yes ☐ No	<u>1</u>	☒ Clear ☐ Turbid	☒ OK ☐ Inadequate	<u>Heavy brush</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	
	☐ 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. Hieborn Evaluation Date: 5-11-26

	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: NONE

Well Condition Summary Form

Facility: Kekaha Landfill Well/Piezometer Name: mw1-2A

Evaluator: George A. Nicholson Evaluation Date: 5-11-26

	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: NONE

Well Condition Summary Form

Facility: Kekaha Landfill Well/Piezometer Name: mw1-3A

Evaluator: George A. Hickman Evaluation Date: 5-11-26

	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: NONE

Well Condition Summary Form

Facility: Kekaha Land Fill Well/Piezometer Name: mw 11-2

Evaluator: George A. Hitchborn Evaluation Date: 5-3-26

	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?			

COMMENTS: NONE

Well Condition Summary Form

Facility: Kekaha Landfill Well/Piezometer Name: MW 11-5

Evaluator: George A. Hickman Evaluation Date: 5-3-26

	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: NONE

Well Condition Summary Form

Facility: Kekaha Landfill Well/Piezometer Name: MW11-6A

Evaluator: George A. Hitchcock Evaluation Date: 5-11-26

	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: NONE

Well Condition Summary Form

Facility: Kekaha Landfill Well/Piezometer Name: mw11-7

Evaluator: George Hitchborn Evaluation Date: 5-3-26

	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: NONE

Well Condition Summary Form

Facility: Kekaha Landfill Well/Piezometer Name: mw11-8

Evaluator: George A. Hildner Evaluation Date: 5-11-26

	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: NONE

Well Condition Summary Form

Facility: Kekaha Landfill Well/Piezometer Name: mw11-9

Evaluator: George A. Hieber Evaluation Date: 5-11-26

	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: NONE

[illegible]

eurofins | Environment Testing
America

[illegible]

Certificate of Calibration

Instrument Type: Horiba U-52

Serial Number:

ZFSO

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:

[Signature]

Calibration Date:

4/30/26

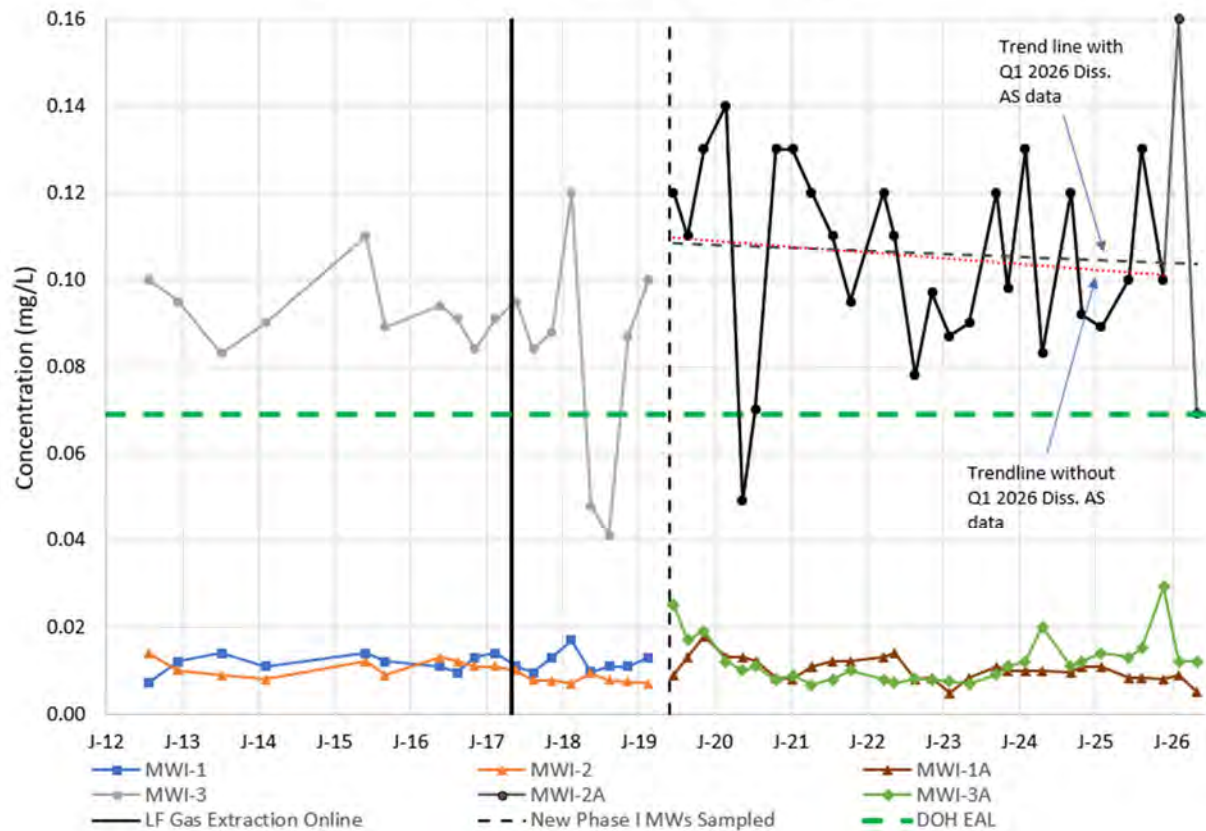
APPENDIX B

Historical Analytical Data for Phase I Groundwater Monitoring Wells

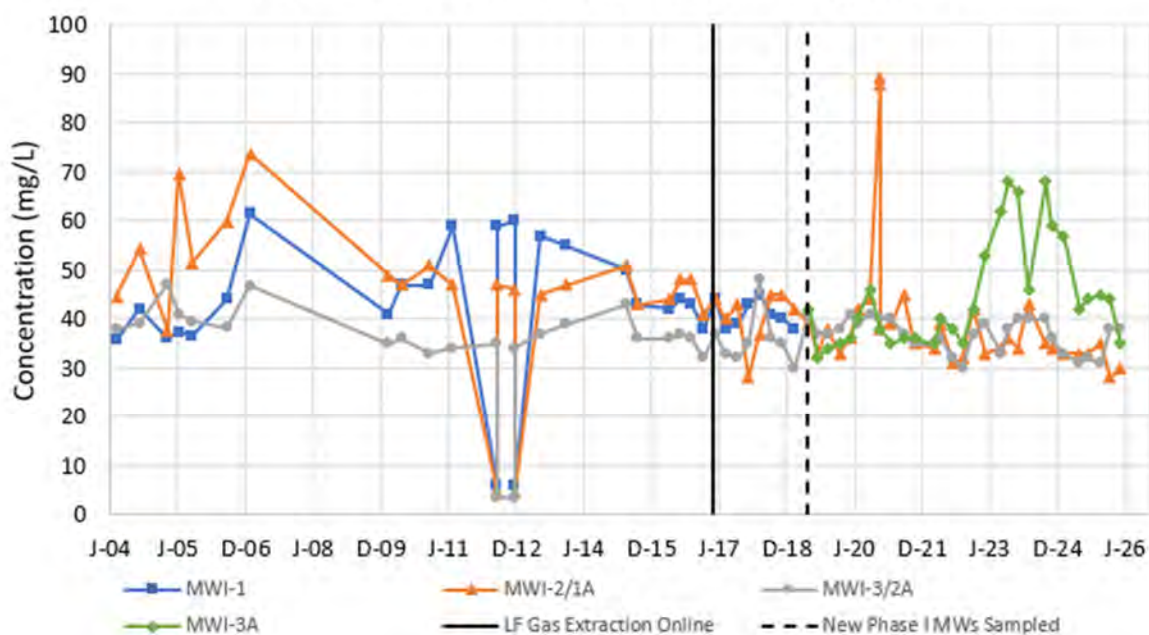
Historical Analytical Data for Phase 1 Groundwater Monitoring Wells

Time Series Graphs of Selected Analytes

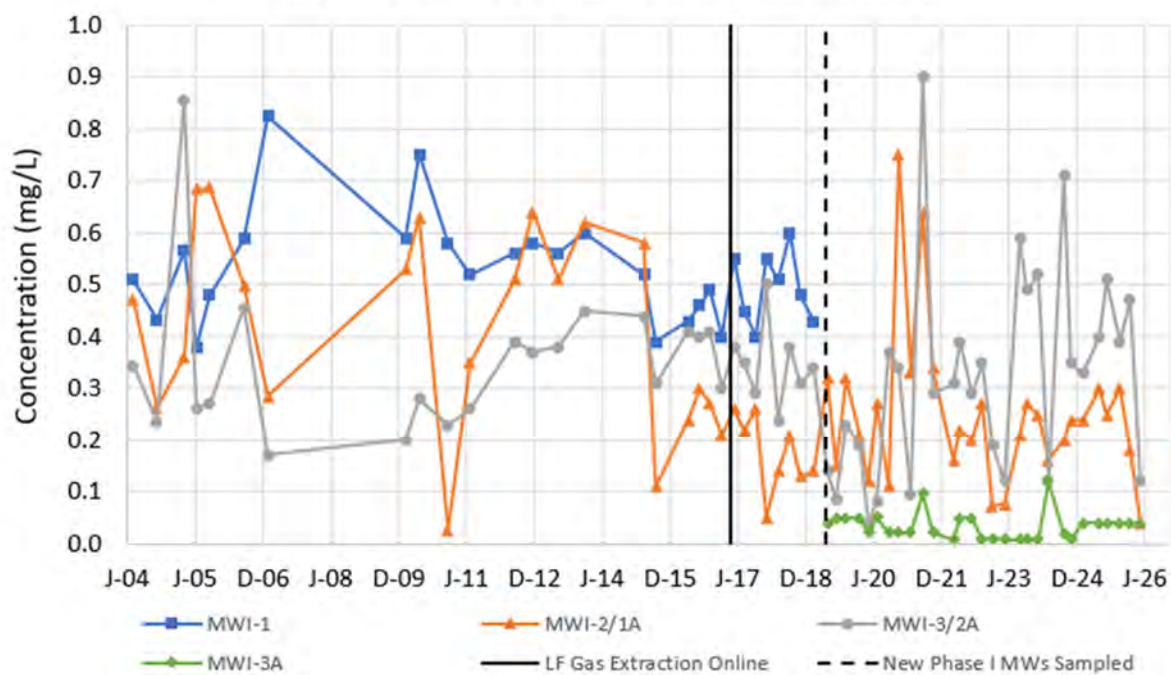
Dissolved Arsenic in Phase 1 Monitoring Wells



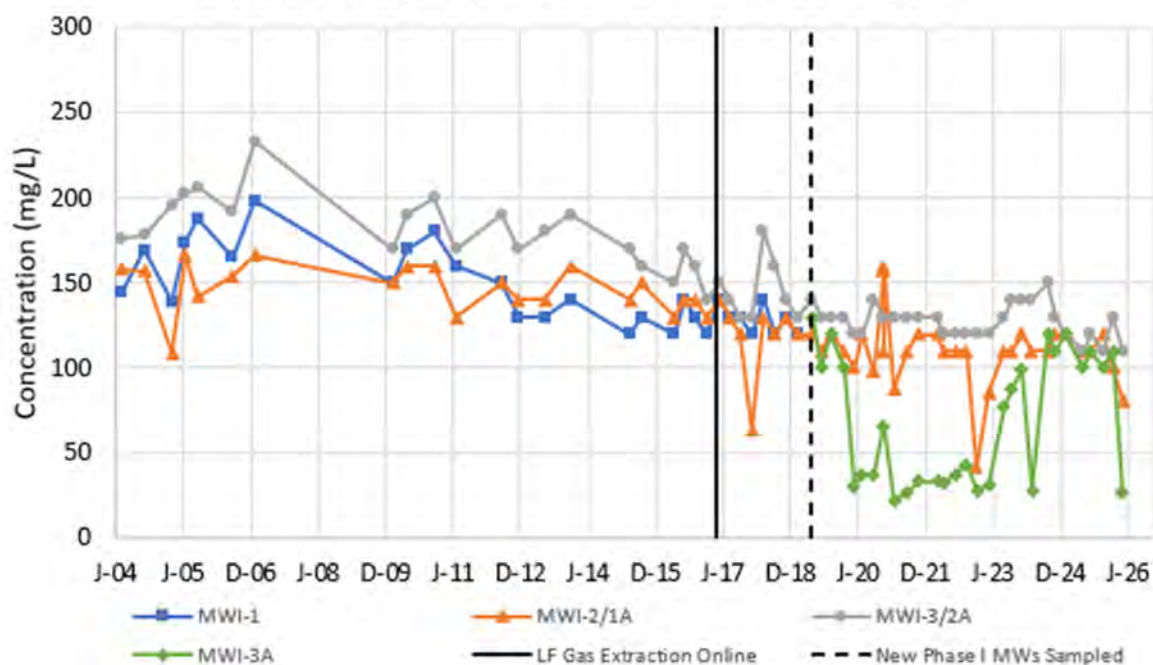
Dissolved Calcium in Phase 1 Monitoring Wells



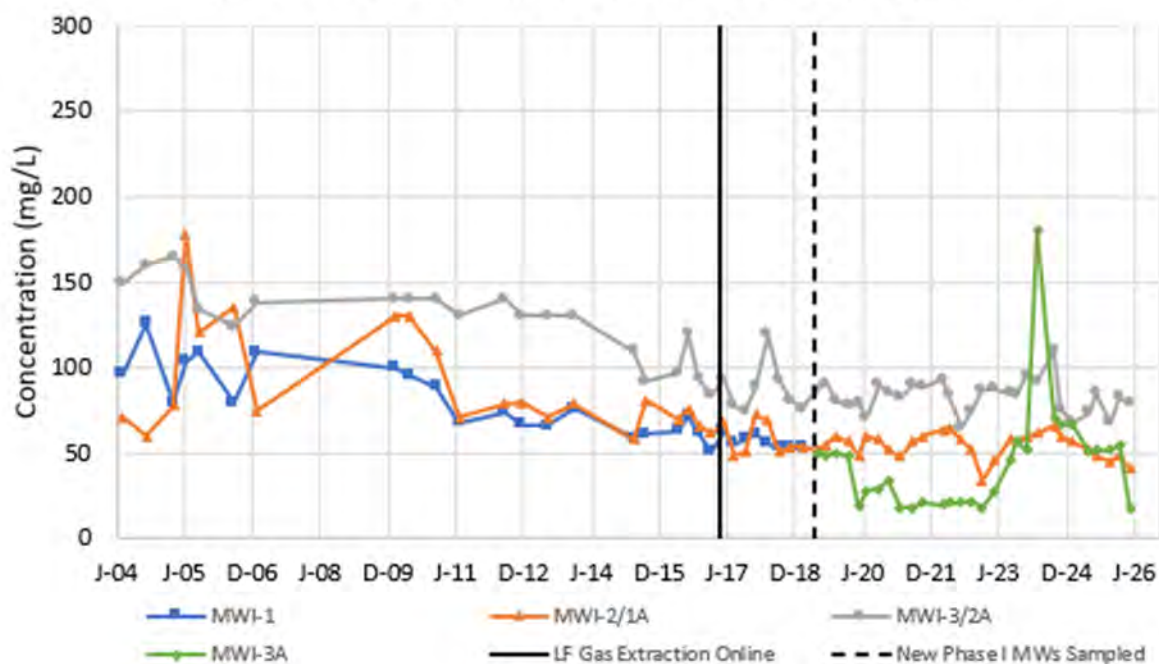
Dissolved Iron in Phase 1 Monitoring Wells



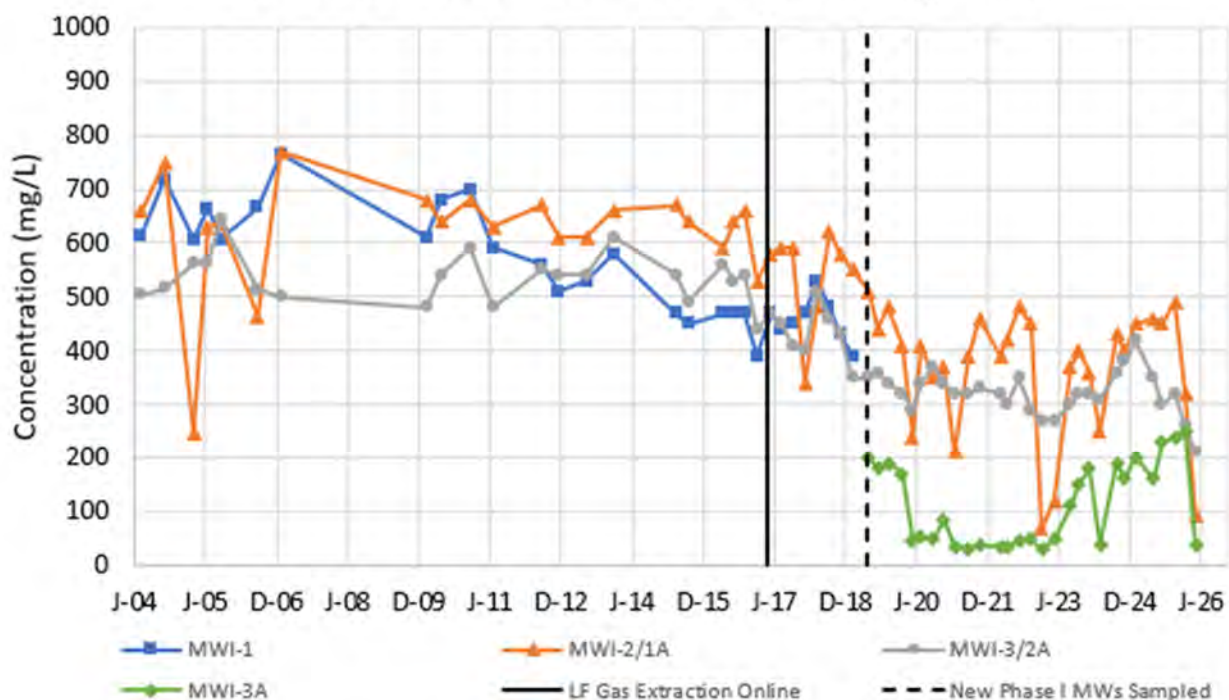
Dissolved Magnesium in Phase 1 Monitoring Wells



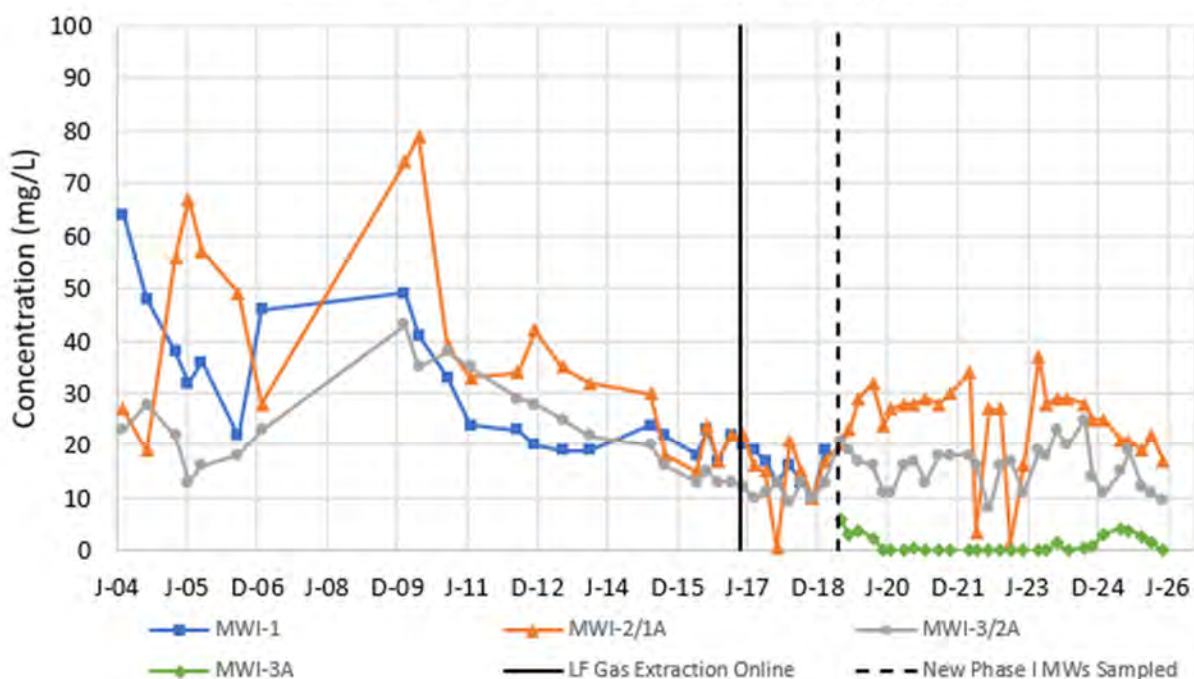
Dissolved Potassium in Phase 1 Monitoring Wells



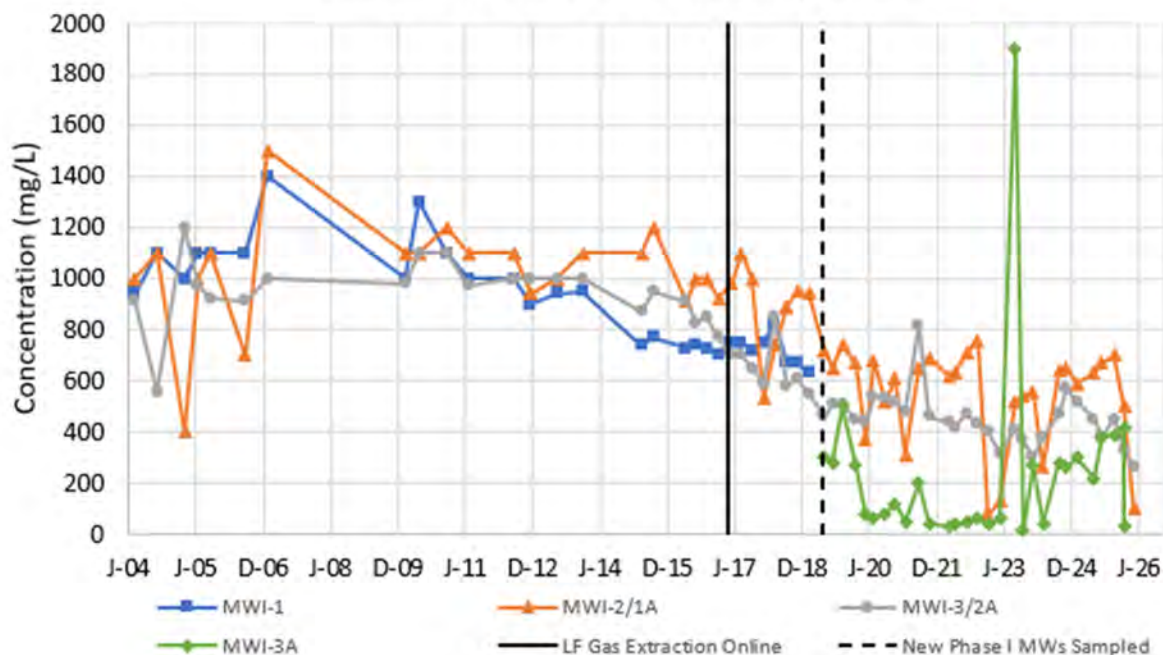
Dissolved Sodium in Phase 1 Monitoring Wells



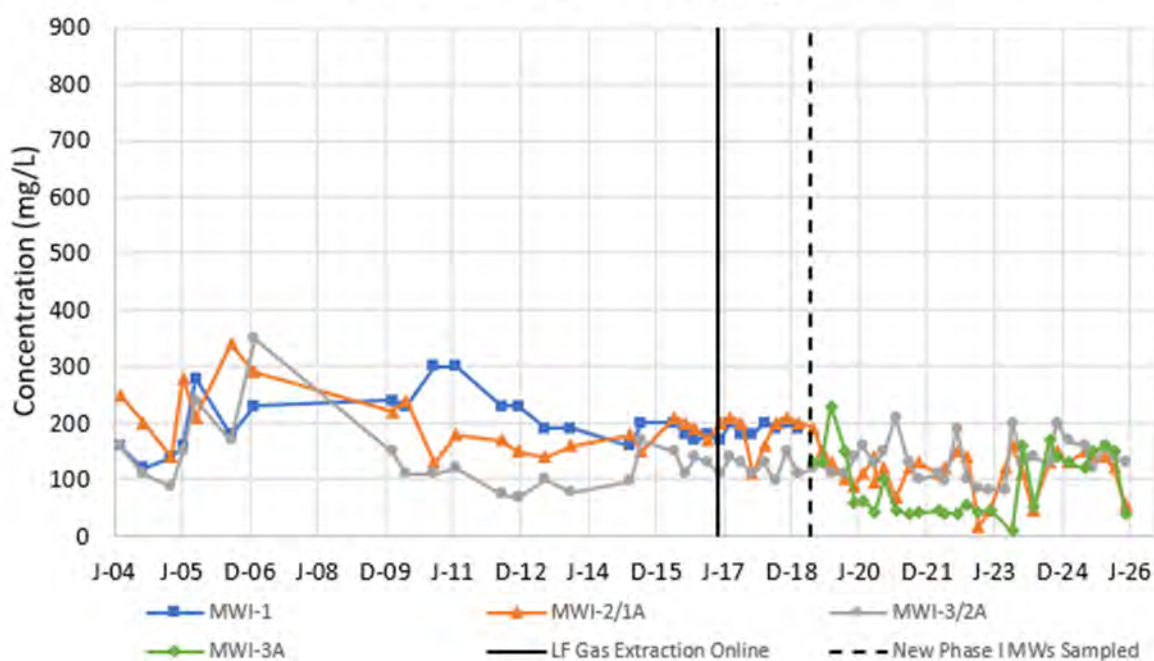
Ammonia as N in Phase 1 Monitoring Wells



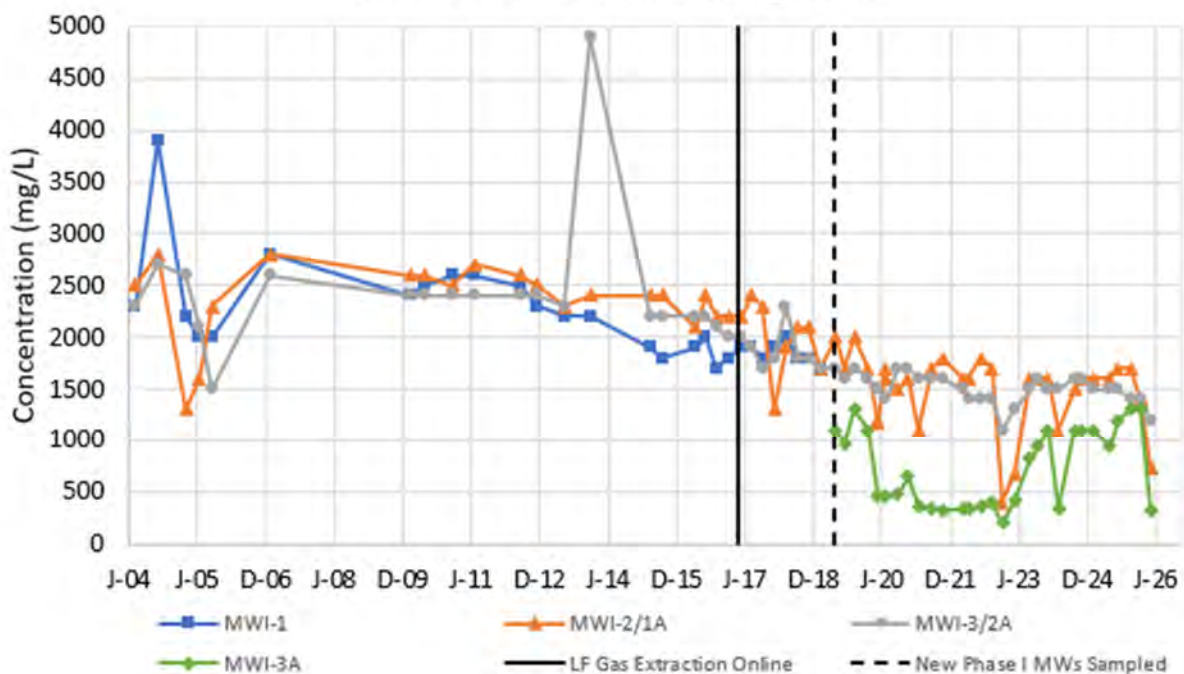
Chloride in Phase 1 Monitoring Wells



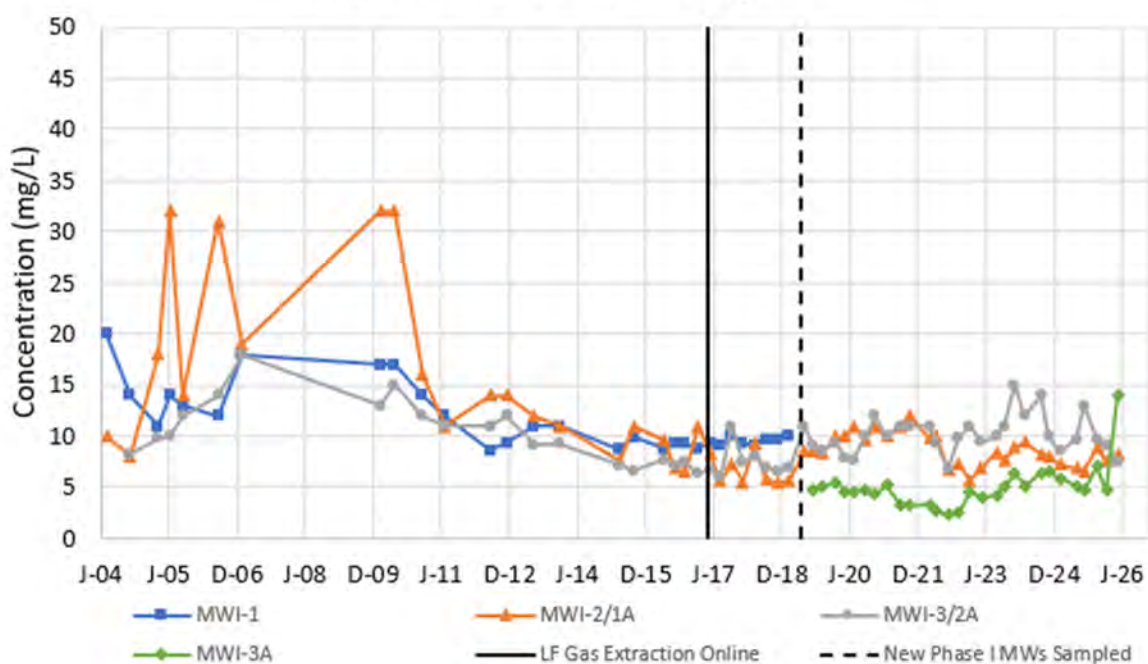
Sulfate in Phase 1 Monitoring Wells



TDS in Phase 1 Monitoring Wells



TOC in Phase 1 Monitoring Wells



APPENDIX C

TestAmerica Laboratories Inc
(a Eurofins Environment Testing Company)
Laboratory Reports (on CD)

Tables

C-1. Groundwater Analytical Results Q2 2026

C-2. Qualifiers for Groundwater Analytical
Results Q2 2026

Table C-1. Groundwater Analytical Results Q2 2026
Second Quarter 2026 Groundwater And Leachate Monitoring Report
Kekaha Municipal Solid Waste Landfill, Kekaha, Hawaii

Location Date	MWI-1A 05/11/2026	MWI-2A 05/11/2026	MWI-3A 05/11/2026	MWII-2 05/03/2026	MWII-5 05/03/2026	MWII-5 05/03/2026 MWII-5 DUP- 050326	MWII-6A 05/11/2026 MWII-6A- 051126	MWII-7 05/03/2026 MWII-7-050326	MWII-8 05/11/2026 MWII-8-051126	MWII-9 05/11/2026 MWII-9-051126				
Sample	MWI-1A-051126	MWI-2A-051126	MWI-3A-051126	MWII-2-050326	MWII-5-050326									
Analyte	Unit											Background	HI EALs	HAR MCLs
Volatile Organic Compounds (VOCs)														
All other VOCs analyzed	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-	-
1,1,1,2-Tetrachloroethane	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U		11	
1,1,1-Trichloroethane	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U		11	
1,1,2,2-Tetrachloroethane	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U		200	
1,1,2-Trichloroethane	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U		110	
1,1-Dichloroethane	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U		47	
1,1-Dichloroethene	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U		25	
1,2,3-Trichlorobenzene	ug/L	4 U	4 U	4 U	4 U	4 U	4 U	4 U	4 U	4 U	4 U			
1,2,3-Trichloropropane	ug/L	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U		14	
1,2-Dibromo-3-chloropropane	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U		0.04	
1,2-Dibromomethane (EDB)	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U		19	
1,2-Dichlorobenzene	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U		14	
1,2-Dichloroethane (EDC)	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U		180	
1,2-Dichloropropane	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U		100	
1,4-Dichlorobenzene	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U		9.4	
2-Butanone	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U		14000	
2-Hexanone	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U			
4-Methyl-2-pentanone	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U		170	
Acetone	ug/L	15 U	15 U	15 U	15 U	15 U	15 U	15 U	15 U	15 U	15 U		1500	
Acrylonitrile	ug/L	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U			
Benzene	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U		71	
Bromochloromethane	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U			
Bromodichloromethane	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U		110	
Bromoform	ug/L	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U		230	
Bromomethane	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U		16	
Carbon Disulfide	ug/L	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U			
Carbon Tetrachloride	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U		9.8	
Chlorobenzene	ug/L	1 U	0.3 J	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U		25	
Chloroethane	ug/L	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U		160	
Chloroform	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U		28	
Chloromethane	ug/L	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U		1100	
cis-1,2-Dichloroethene (cDCE)	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U		620	
Dibromochloromethane	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U		34	
Dibromomethane	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U			
Ethylbenzene	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U		7.3	
Methylene Chloride	ug/L	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U		1500	
Methylenide	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U			
Tetrachloroethene (PCE)	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U		53	
Toluene	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U		9.8	
Total Xylenes	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U		13	
trans-1,2-Dichloroethene	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U		560	
trans-1,4-Dichloro-2-Butene	ug/L	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U			
Trichloroethene (TCE)	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U		47	
Trichlorofluoromethane	ug/L	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U			
Vinyl Acetate	ug/L	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U			
Vinyl Chloride	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U		18	
Metals														
Antimony (Dissolved)	ug/L	20 U	20 U	20 U	20 U	20 U	20 U	6.2 J	20 U	20 U	20 U		30	6
Arsenic (Dissolved)	ug/L	5.2	69	12	5	10	10	7.3	3.4	3.2	3.4	130	36	10
Arsenic (Total)	ug/L	5.9	70	11	5.1	10	9.7	6.9	3.8	2.9	3.1	130	36	10
Barium (Dissolved)	ug/L	5.5 J	4 J	14	4.7 J	5.4 J	5.5 J	5.2 J	70	3.6 J	6.1 J	18	220	2,000
Barium (Total)	ug/L	5.9 J	4 J	14	4.6 J	5.5 J	5.9 J	5.3 J	72	3.8 J	6.5 J	18	220	2,000
Calcium (Dissolved)	ug/L	30,000	38,000	35,000	46,000	52,000	51,000	65,000	260,000	39,000	39,000	500,000	-	-
Calcium (Total)	ug/L	30,000	39,000	35,000	46,000	53,000	54,000	65,000	260,000	40,000	39,000	500,000	-	-
Cobalt (Dissolved)	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	2.3 J	5 U	5 U	-	19	-
Cobalt (Total)	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	2.2 J	5 U	5 U	-	19	-
Copper (Dissolved)	ug/L	15 U	15 U	15 U	15 U	15 U	15 U	15 U	9.1 J	15 U	15 U	-	2.9	-
Copper (Total)	ug/L	15 U	15 U	15 U	15 U	15 U	15 U	15 U	15	15 U	15 U	-	2.9	-
Iron (Dissolved)	ug/L	40 J	120	100 U	100 U	100 U	100 U	100 U	520	100 U	100 U	950	-	-
Iron (Total)	ug/L	170	240	100 U	100 U	100 U	100 U	100 U	1,000	100 U	100 U	950	-	-
Magnesium (Dissolved)	ug/L	81,000	110,000	26,000	72,000	110,000	110,000	89,000	460,000	53,000	51,000	870,000	-	-
Magnesium (Total)	ug/L	87,000	110,000	25,000	73,000	110,000	120,000	91,000	470,000	53,000	52,000	870,000	-	-

Table C-1. Groundwater Analytical Results Q2 2026
Second Quarter 2026 Groundwater And Leachate Monitoring Report
Kekaha Municipal Solid Waste Landfill, Kekaha, Hawaii

Location	MWI-1A	MWI-2A	MWI-3A	MWII-2	MWII-5	MWII-5	MWII-6A	MWII-7	MWII-8	MWII-9			
Date	05/11/2026	05/11/2026	05/11/2026	05/03/2026	05/03/2026	05/03/2026	05/11/2026	05/03/2026	05/11/2026	05/11/2026			
Sample	MWI-1A-051126	MWI-2A-051126	MWI-3A-051126	MWII-2-050326	MWII-5-050326	MWII-5 DUP-050326	MWII-6A-051126	MWII-7-050326	MWII-8-051126	MWII-9-051126			
Analyte	Unit										Background	HI EALs	HAR MCLs
Manganese (Dissolved)	ug/L	10 U	5.1 J	8.3 J	10 U	10 U	11	540	9.9 J	20	-	-	-
Manganese (Total)	ug/L	3.9 J	5.1 J	8.7 J	10 U	3.7 J	12	560	9.7 J	19	-	-	-
Mercury (Dissolved)	ug/L	0.09 J	0.088 J	0.073 J	0.2 U	0.2 U	0.2 U	0.2 U	0.08 J	0.2 U	-	0.025	2
Mercury (Total)	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.082 J	0.2 U	0.08 J	0.083 J	-	0.025	2
Nickel (Dissolved)	ug/L	20 U	10 J	20 U	20 U	20 U	20 U	20 U	20 U	20 U	40	5	-
Nickel (Total)	ug/L	20 U	10 J	20 U	20 U	20 U	20 U	20 U	20 U	20 U	40	5	-
Potassium (Dissolved)	ug/L	41,000	79,000	18,000	17,000	11,000	11,000	17,000	110,000	6,700	5,500	220,000	-
Potassium (Total)	ug/L	44,000	79,000	18,000	17,000	11,000	11,000	17,000	120,000	6,600	5,500	220,000	-
Selenium (Dissolved)	ug/L	20 U	20 U	20 U	20 U	16 J	16 J	20 U	20 U	20 U	15	5	50
Selenium (Total)	ug/L	20 U	20 U	20 U	20 U	17 J	19 J	20 U	20 U	20 U	15	5	50
Silicon (Dissolved)	ug/L	9,000	10,000	6,000	9,200	13,000	13,000	8,000	10,000	5,800	6,200	15,000	-
Silicon (Total)	ug/L	9,600	10,000	5,800	9,200	13,000	13,000	8,200	11,000	5,800	6,400	15,000	-
Sodium (Dissolved)	ug/L	91,000	210,000	37,000	140,000	120,000	110,000	57,000	3,100,000	65,000	52,000	7,700,000	-
Sodium (Total)	ug/L	100,000	220,000	35,000	140,000	120,000	120,000	60,000	3,000,000	66,000	53,000	7,700,000	-
Thallium (Dissolved)	ug/L	15 U	15 U	15 U	5.8 J	6.7 J	15 U	15 U	13 J	15 U	15 U	-	6
Thallium (Total)	ug/L	15 U	15 U	15 U	6.1 J	5.8 J	5.1 J	15 U	12 J	15 U	15 U	-	6
Tin (Dissolved)	ug/L	15 U	15 U	15 U	15 U	15 U	15 U	15 U	6.1 J	15 U	15 U	-	-
Tin (Total)	ug/L	15 U	15 U	15 U	15 U	15 U	15 U	15 U	5.6 J	15 U	15 U	-	-
Vanadium (Dissolved)	ug/L	5 U	5 U	1.6 J	4.3 J	5.8	5.4	4 J	3.9 J	3.3 J	4.2 J	10	27
Vanadium (Total)	ug/L	5 U	2 J	1.7 J	4.3 J	5.9	5.6	4.6 J	4.6 J	3.5 J	4.1 J	10	27
Zinc (Dissolved)	ug/L	13 J	20 U	20 U	20 U	20 U	20 U	20 U	16 J	20 U	20 U	20	22
Zinc (Total)	ug/L	12 J	20 U	20 U	20 U	20 U	20 U	20 U	11 J	20 U	20 U	20	22
All other metals analyzed	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	-
Major Chemical Parameters													
Ammonia as Nitrogen (N)	mg/L	17	9.5	0.1 U	0.11	0.1 U	0.1 U	6.4	0.1 U	0.1 U	0.045 J	7.7	-
Bicarbonate Alkalinity	mg/L	550	680	210	340	380	390	460	340	250	310	553	-
Bromide	mg/L	0.52	2.2	0.5 U	0.92	1.4	1.5	0.45 J	20	0.72	0.52	-	-
Carbonate Alkalinity	mg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	7.1 J	7.9 J	-	-
Chemical Oxygen Demand (COD)	mg/L	21	28	36	20 U	20 U	20 U	17 J	66	11 J	13 J	280	-
Chloride	mg/L	100	260	29	180	130	130	51	6,000	110	53	14,000	-
Nitrate Nitrite as N	mg/L	3.1	0.11 J	0.2 U	1.9	42	43	40	6.3	12	1.3	-	10
Sulfate	mg/L	55	130	40	61	61	60	67	810	47	54	1800	-
Total Alkalinity	mg/L	550	680	210	340	380	390	460	340	250	320	549	-
Total Dissolved Solids	mg/L	730	1,200	330	680	840	850	770	11,000	530	450	23,000	-
Total Organic Carbon	mg/L	8.1	7.5	14	3.2	1.6	1.7	5.9	2.6	3.8	2.1	6.4	-
Field Parameters													
Dissolved Oxygen	mg/L	1.47	7.6	0.85	6.6	4.7	4.7	0.74	4.4	0.92	1.51	-	-
eH/ORP	mV	-156	-77	-32	180	205	205	85	182	88	63	-	-
Electrical Conductivity	mS/cm	1.47	2.42	0.605	1.39	1.56	1.56	1.36	1.45	0.962	0.85	-	-
pH	pH units	7.28	7.26	7.76	7.57	7.1	7.1	7.14	7.37	7.7	7.6	-	-
Temperature	deg C	28.78	29.72	25.52	28.35	28.4	28.4	27.1	28.22	27.43	28.33	-	-
Turbidity	NTU	11.7	0.5	0.8	30.6	6.5	6.5	0.79	25.2	2.7	6.1	-	-

Notes:

- "MWI-X" represents groundwater monitoring well
- Wells MWI-1, MWI-2, and MWI-3 were decommissioned and replaced with MWI-1A, MWI-2A, and MWI-3A in May 2019
- Background limits from AECOM
- HAR Chapter 11-20 maximum contaminant levels established for drinking water. In absence of state MCLs, the National Primary Drinking Water Regulations is used instead.
- HI EAL = Hawai'i Environmental Action Levels obtained from Table D-1c (2024).
- Bold** - Bold text indicates the concentration exceed the statistically established laboratory reporting limit (RL)
- Blue highlighted cells indicate that the value has exceeded background limits (only applies to MWI-1A, MWI-2A, and MWI-3A).
- Red** text indicates an exceedance of either the MCLs or EALs.
- Dissolved concentration exceeding the total concentration is likely due to a range of error for analysis
- Semi-Volatile Organic Compounds (SVOCs), Pesticides/Herbicides, Polychlorinated Biphenyls (PCBs), Total Sulfide, Total Cyanide, and Dioxins are only sampled once a year in Q1.

Abbreviations:

ug/L = micrograms per liter
mS/cm = milliSiemens per centimeter
deg C = degrees Celsius
EAL = Environmental Action Level
eH/ORP = redox potential/oxidation reduction potential
J = Result is estimated.
MCL = Maximum Contaminant Level
mg/L = milligrams per liter
mV = millivolts
ND = not detected above the RL
ng/L = nanograms per liter
NTU = nephelometric turbidity unit
RL = Laboratory Reporting Limit
pH = potential of Hydrogen
U = not detected at or above the reporting limit shown

Table C-2. Qualifiers for Groundwater and Leachate Analytical Resuts Q2 2026
Second Quarter 2026 Groundwater And Leachate Monitoring Report
Kekaha Municipal Solid Waste Landfill, Kekaha, Hawaii

Sample ID	Analyte	Fraction	Report Result	Result Unit	Lab Flag	Lab Note	Final Qual	Final Qual Reason
MWI-2A-051126	Barium (Dissolved)	D	4	ug/L	J	J-Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.	J	Detection below the RL.
MWI-2A-051126	Barium (Total)	T	4	ug/L	J	J-Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.	J	Detection below the RL.
MWI-2A-051126	Bromomethane	T	5	ug/L			UJ	CCV low
MWI-2A-051126	Chlorobenzene	T	0.3	ug/L	J	J-Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.	J	Detection below the RL.
MWI-2A-051126	Chloromethane	T	2	ug/L			UJ	CCV low
MWI-2A-051126	Manganese (Dissolved)	D	5.1	ug/L	J	J-Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.	J	Detection below the RL.
MWI-2A-051126	Manganese (Total)	T	5.1	ug/L	J	J-Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.	J	Detection below the RL.
MWI-2A-051126	Mercury (Dissolved)	D	0.088	ug/L	J	J-Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.	J	Detection below the RL.
MWI-2A-051126	Methyliodide	T	5	ug/L			UJ	CCV low
MWI-2A-051126	Nickel (Dissolved)	D	10	ug/L	J	J-Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.	J	Detection below the RL.
MWI-2A-051126	Nickel (Total)	T	10	ug/L	J	J-Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.	J	Detection below the RL.
MWI-2A-051126	Nitrate Nitrite as N	T	0.11	mg/L	J	J-Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.	J	Detection below the RL.
MWI-2A-051126	Vanadium (Total)	T	2	ug/L	J	J-Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.	J	Detection below the RL.
MWI-3A-051126	Bromomethane	T	5	ug/L			UJ	CCV low
MWI-3A-051126	Chloromethane	T	2	ug/L			UJ	CCV low
MWI-3A-051126	Manganese (Dissolved)	D	8.3	ug/L	J	J-Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.	J	Detection below the RL.
MWI-3A-051126	Manganese (Total)	T	8.7	ug/L	J	J-Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.	J	Detection below the RL.
MWI-3A-051126	Mercury (Dissolved)	D	0.073	ug/L	J	J-Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.	J	Detection below the RL.
MWI-3A-051126	Methyliodide	T	5	ug/L			UJ	CCV low
MWI-3A-051126	Vanadium (Dissolved)	D	1.6	ug/L	J	J-Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.	J	Detection below the RL.
MWI-3A-051126	Vanadium (Total)	T	1.7	ug/L	J	J-Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.	J	Detection below the RL.
MWII-2-050326	Barium (Dissolved)	D	4.7	ug/L	J	J-Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.	J	Detection below the RL.
MWII-2-050326	Barium (Total)	T	4.6	ug/L	J	J-Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.	J	Detection below the RL.
MWII-2-050326	Bromomethane	T	5	ug/L			UJ	CCV low.
MWII-2-050326	Chemical Oxygen Demand (COD)	T	20	mg/L	J	J-Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.	U	Originally reported as a detection of 15 mg/L, below the RL. Also detected in FB at 10 mg/L. Changed to nondetect at the RL.
MWII-2-050326	Iron (Total)	T	100	ug/L	J	J-Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.	U	Orginally reported as detection of 83 ug/L, below the RL. Also detected in FB at 81 ug/L, below the RL. Changed to nondetect at the RL.
MWII-2-050326	Thallium (Dissolved)	D	5.8	ug/L	J	J-Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.	J	Detection below the RL.
MWII-2-050326	Thallium (Total)	T	6.1	ug/L	J	J-Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.	J	Detection below the RL.
MWII-2-050326	Vanadium (Dissolved)	D	4.3	ug/L	J	J-Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.	J	Detection below the RL.
MWII-2-050326	Vanadium (Total)	T	4.3	ug/L	J	J-Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.	J	Detection below the RL.
MWII-5 DUP-050326	Barium (Dissolved)	D	5.5	ug/L	J	J-Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.	J	Detection below the RL.
MWII-5 DUP-050326	Barium (Total)	T	5.9	ug/L	J	J-Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.	J	Detection below the RL.
MWII-5 DUP-050326	Bromomethane	T	5	ug/L			UJ	CCV low.
MWII-5 DUP-050326	Chemical Oxygen Demand (COD)	T	20	mg/L	J	J-Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.	U	Originally reported as a detection of 15 mg/L, below the RL. Also detected in FB at 10 mg/L. Changed to nondetect at the RL.
MWII-5 DUP-050326	Manganese (Total)	T	3.6	ug/L	J	J-Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.	J	Detection below the RL.
MWII-5 DUP-050326	Selenium (Dissolved)	D	16	ug/L	J	J-Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.	J	Detection below the RL.
MWII-5 DUP-050326	Selenium (Total)	T	19	ug/L	J	J-Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.	J	Detection below the RL.
MWII-5 DUP-050326	Thallium (Total)	T	5.1	ug/L	J	J-Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.	J	Detection below the RL.
MWII-5-050326	1,1,1,2-Tetrachloroethane	T	1	ug/L			UJ	Sample vial contained headspace bubble >6 mm in diameter.
MWII-5-050326	1,1,1-Trichloroethane	T	1	ug/L			UJ	Sample vial contained headspace bubble >6 mm in diameter.
MWII-5-050326	1,1,2,2-Tetrachloroethane	T	1	ug/L			UJ	Sample vial contained headspace bubble >6 mm in diameter.
MWII-5-050326	1,1,2-Trichloroethane	T	1	ug/L			UJ	Sample vial contained headspace bubble >6 mm in diameter.
MWII-5-050326	1,1-Dichloroethane	T	1	ug/L			UJ	Sample vial contained headspace bubble >6 mm in diameter.
MWII-5-050326	1,1-Dichloroethene	T	1	ug/L			UJ	Sample vial contained headspace bubble >6 mm in diameter.
MWII-5-050326	1,2,3-Trichlorobenzene	T	4	ug/L			UJ	Sample vial contained headspace bubble >6 mm in diameter.
MWII-5-050326	1,2,3-Trichloropropane	T	2	ug/L			UJ	Sample vial contained headspace bubble >6 mm in diameter.
MWII-5-050326	1,2-Dibromo-3-chloropropane	T	5	ug/L			UJ	Sample vial contained headspace bubble >6 mm in diameter.

Table C-2. Qualifiers for Groundwater and Leachate Analytical Resuts Q2 2026
Second Quarter 2026 Groundwater And Leachate Monitoring Report
Kekaha Municipal Solid Waste Landfill, Kekaha, Hawaii

Sample ID	Analyte	Fraction	Report Result	Result Unit	Lab Flag	Lab Note	Final Qual	Final Qual Reason
MWII-5-050326	1,2-Dibromoethane (EDB)	T	1	ug/L			UJ	Sample vial contained headspace bubble >6 mm in diameter.
MWII-5-050326	1,2-Dichlorobenzene	T	1	ug/L			UJ	Sample vial contained headspace bubble >6 mm in diameter.
MWII-5-050326	1,2-Dichloroethane (EDC)	T	1	ug/L			UJ	Sample vial contained headspace bubble >6 mm in diameter.
MWII-5-050326	1,2-Dichloropropane	T	1	ug/L			UJ	Sample vial contained headspace bubble >6 mm in diameter.
MWII-5-050326	1,4-Dichlorobenzene	T	1	ug/L			UJ	Sample vial contained headspace bubble >6 mm in diameter.
MWII-5-050326	2-Butanone	T	10	ug/L			UJ	Sample vial contained headspace bubble >6 mm in diameter.
MWII-5-050326	2-Hexanone	T	5	ug/L			UJ	Sample vial contained headspace bubble >6 mm in diameter.
MWII-5-050326	4-Methyl-2-pentanone	T	5	ug/L			UJ	Sample vial contained headspace bubble >6 mm in diameter.
MWII-5-050326	Acetone	T	15	ug/L			UJ	Sample vial contained headspace bubble >6 mm in diameter.
MWII-5-050326	Acrylonitrile	T	20	ug/L			UJ	Sample vial contained headspace bubble >6 mm in diameter.
MWII-5-050326	Barium (Dissolved)	D	5.4	ug/L	J	J-Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.	J	Detection below the RL.
MWII-5-050326	Barium (Total)	T	5.5	ug/L	J	J-Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.	J	Detection below the RL.
MWII-5-050326	Benzene	T	1	ug/L			UJ	Sample vial contained headspace bubble >6 mm in diameter.
MWII-5-050326	Bromochloromethane	T	1	ug/L			UJ	Sample vial contained headspace bubble >6 mm in diameter.
MWII-5-050326	Bromodichloromethane	T	1	ug/L			UJ	Sample vial contained headspace bubble >6 mm in diameter.
MWII-5-050326	Bromoform	T	2	ug/L			UJ	Sample vial contained headspace bubble >6 mm in diameter.
MWII-5-050326	Bromomethane	T	5	ug/L			UJ	Sample vial contained headspace bubble >6 mm in diameter. CCV low.
MWII-5-050326	Cadmium (Total)	T	1	ug/L	J	J-Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.	U	Originally reported as detected at 0.28 ug/L, below RL. Detected in FB at 0.26 ug/L, below RL. Changed to ND at the RL.
MWII-5-050326	Carbon Disulfide	T	2	ug/L			UJ	Sample vial contained headspace bubble >6 mm in diameter.
MWII-5-050326	Carbon Tetrachloride	T	1	ug/L			UJ	Sample vial contained headspace bubble >6 mm in diameter.
MWII-5-050326	Chemical Oxygen Demand (COD)	T	20	mg/L	J	J-Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.	U	Originally reported as a detection of 16 mg/L, below the RL. Also detected in FB at 10 mg/L. Changed to nondetect at the RL.
MWII-5-050326	Chlorobenzene	T	1	ug/L			UJ	Sample vial contained headspace bubble >6 mm in diameter.
MWII-5-050326	Chloroethane	T	2	ug/L			UJ	Sample vial contained headspace bubble >6 mm in diameter.
MWII-5-050326	Chloroform	T	1	ug/L			UJ	Sample vial contained headspace bubble >6 mm in diameter.
MWII-5-050326	Chloromethane	T	2	ug/L			UJ	Sample vial contained headspace bubble >6 mm in diameter.
MWII-5-050326	cis-1,2-Dichloroethene (cDCE)	T	1	ug/L			UJ	Sample vial contained headspace bubble >6 mm in diameter.
MWII-5-050326	Dibromochloromethane	T	1	ug/L			UJ	Sample vial contained headspace bubble >6 mm in diameter.
MWII-5-050326	Dibromomethane	T	1	ug/L			UJ	Sample vial contained headspace bubble >6 mm in diameter.
MWII-5-050326	Ethylbenzene	T	1	ug/L			UJ	Sample vial contained headspace bubble >6 mm in diameter.
MWII-5-050326	Manganese (Total)	T	3.7	ug/L	J	J-Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.	J	Detection below the RL.
MWII-5-050326	Methylene Chloride	T	2	ug/L			UJ	Sample vial contained headspace bubble >6 mm in diameter.
MWII-5-050326	Methyliodide	T	5	ug/L			UJ	Sample vial contained headspace bubble >6 mm in diameter.
MWII-5-050326	Selenium (Dissolved)	D	16	ug/L	J	J-Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.	J	Detection below the RL.
MWII-5-050326	Selenium (Total)	T	17	ug/L	J	J-Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.	J	Detection below the RL.
MWII-5-050326	Tetrachloroethene (PCE)	T	1	ug/L			UJ	Sample vial contained headspace bubble >6 mm in diameter.
MWII-5-050326	Thallium (Dissolved)	D	6.7	ug/L	J	J-Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.	J	Detection below the RL.
MWII-5-050326	Thallium (Total)	T	5.8	ug/L	J	J-Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.	J	Detection below the RL.
MWII-5-050326	Toluene	T	1	ug/L			UJ	Sample vial contained headspace bubble >6 mm in diameter.
MWII-5-050326	Total Xylenes	T	1	ug/L			UJ	Sample vial contained headspace bubble >6 mm in diameter.
MWII-5-050326	trans-1,2-Dichloroethene	T	1	ug/L			UJ	Sample vial contained headspace bubble >6 mm in diameter.
MWII-5-050326	trans-1,4-Dichloro-2-Butene	T	3	ug/L			UJ	Sample vial contained headspace bubble >6 mm in diameter.
MWII-5-050326	Trichloroethene (TCE)	T	1	ug/L			UJ	Sample vial contained headspace bubble >6 mm in diameter.
MWII-5-050326	Trichlorofluoromethane	T	2	ug/L			UJ	Sample vial contained headspace bubble >6 mm in diameter.
MWII-5-050326	Vinyl Acetate	T	3	ug/L			UJ	Sample vial contained headspace bubble >6 mm in diameter.
MWII-5-050326	Vinyl Chloride	T	1	ug/L			UJ	Sample vial contained headspace bubble >6 mm in diameter.
MWII-6A-051126	Antimony (Dissolved)	D	6.2	ug/L	J	J-Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.	J	Detection below the RL.
MWII-6A-051126	Barium (Dissolved)	D	5.2	ug/L	J	J-Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.	J	Detection below the RL.
MWII-6A-051126	Barium (Total)	T	5.3	ug/L	J	J-Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.	J	Detection below the RL.
MWII-6A-051126	Bromide	T	0.45	mg/L	J	J-Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.	J	Detection below the RL.
MWII-6A-051126	Chemical Oxygen Demand (COD)	T	17	mg/L	J	J-Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.	J	Detection below the RL.
MWII-6A-051126	Mercury (Total)	T	0.082	ug/L	J	J-Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.	J	Detection below the RL.
MWII-6A-051126	Methyliodide	T	5	ug/L			UJ	CCV low
MWII-6A-051126	Vanadium (Dissolved)	D	4	ug/L	J	J-Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.	J	Detection below the RL.
MWII-6A-051126	Vanadium (Total)	T	4.6	ug/L	J	J-Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.	J	Detection below the RL.
MWII-7-050326	Bromomethane	T	5	ug/L			UJ	CCV low.
MWII-7-050326	Cobalt (Dissolved)	D	2.3	ug/L	J	J-Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.	J	Detection below the RL.

Table C-2. Qualifiers for Groundwater and Leachate Analytical Resuts Q2 2026
Second Quarter 2026 Groundwater And Leachate Monitoring Report
Kekaha Municipal Solid Waste Landfill, Kekaha, Hawaii

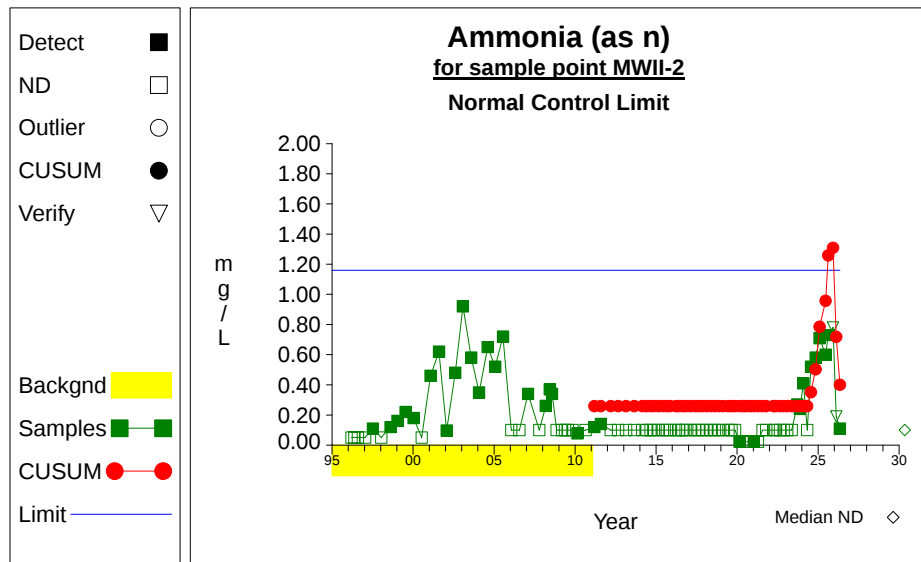
Sample ID	Analyte	Fraction	Report Result	Result Unit	Lab Flag	Lab Note	Final Qual	Final Qual Reason
MWII-7-050326	Cobalt (Total)	T	2.2	ug/L	J	J-Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.	J	Detection below the RL.
MWII-7-050326	Copper (Dissolved)	D	9.1	ug/L	J	J-Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.	J	Detection below the RL.
MWII-7-050326	Thallium (Dissolved)	D	13	ug/L	J	J-Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.	J	Detection below the RL.
MWII-7-050326	Thallium (Total)	T	12	ug/L	J	J-Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.	J	Detection below the RL.
MWII-7-050326	Tin (Dissolved)	D	6.1	ug/L	J	J-Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.	J	Detection below the RL.
MWII-7-050326	Tin (Total)	T	5.6	ug/L	J	J-Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.	J	Detection below the RL.
MWII-7-050326	Vanadium (Dissolved)	D	3.9	ug/L	J	J-Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.	J	Detection below the RL.
MWII-7-050326	Vanadium (Total)	T	4.6	ug/L	J	J-Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.	J	Detection below the RL.
MWII-7-050326	Zinc (Dissolved)	D	16	ug/L	J	J-Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.	J	Detection below the RL.
MWII-7-050326	Zinc (Total)	T	11	ug/L	J	J-Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.	J	Detection below the RL.
MWII-8-051126	Barium (Dissolved)	D	3.6	ug/L	J	J-Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.	J	Detection below the RL.
MWII-8-051126	Barium (Total)	T	3.8	ug/L	J	J-Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.	J	Detection below the RL.
MWII-8-051126	Bromomethane	T	5	ug/L			UJ	CCV low
MWII-8-051126	Carbonate Alkalinity	T	7.1	mg/L	J	J-Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.	J	Detection below the RL.
MWII-8-051126	Chemical Oxygen Demand (COD)	T	11	mg/L	J	J-Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.	J	Detection below the RL.
MWII-8-051126	Chloromethane	T	2	ug/L			UJ	CCV low
MWII-8-051126	Manganese (Dissolved)	D	9.9	ug/L	J	J-Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.	J	Detection below the RL.
MWII-8-051126	Manganese (Total)	T	9.7	ug/L	J	J-Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.	J	Detection below the RL.
MWII-8-051126	Mercury (Dissolved)	D	0.08	ug/L	J	J-Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.	J	Detection below the RL.
MWII-8-051126	Mercury (Total)	T	0.08	ug/L	J	J-Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.	J	Detection below the RL.
MWII-8-051126	Methyliodide	T	5	ug/L			UJ	CCV low
MWII-8-051126	Vanadium (Dissolved)	D	3.3	ug/L	J	J-Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.	J	Detection below the RL.
MWII-8-051126	Vanadium (Total)	T	3.5	ug/L	J	J-Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.	J	Detection below the RL.
MWII-9-051126	Ammonia as Nitrogen (N)	T	0.045	mg/L	J	J-Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.	J	Detection below the RL.
MWII-9-051126	Barium (Dissolved)	D	6.1	ug/L	J	J-Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.	J	Detection below the RL.
MWII-9-051126	Barium (Total)	T	6.5	ug/L	J	J-Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.	J	Detection below the RL.
MWII-9-051126	Bromomethane	T	5	ug/L			UJ	CCV low
MWII-9-051126	Carbonate Alkalinity	T	7.9	mg/L	J	J-Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.	J	Detection below the RL.
MWII-9-051126	Chemical Oxygen Demand (COD)	T	13	mg/L	J	J-Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.	J	Detection below the RL.
MWII-9-051126	Chloromethane	T	2	ug/L			UJ	CCV low
MWII-9-051126	Mercury (Total)	T	0.083	ug/L	J	J-Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.	J	Detection below the RL.
MWII-9-051126	Methyliodide	T	5	ug/L			UJ	CCV low
MWII-9-051126	Vanadium (Dissolved)	D	4.2	ug/L	J	J-Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.	J	Detection below the RL.
MWII-9-051126	Vanadium (Total)	T	4.1	ug/L	J	J-Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.	J	Detection below the RL.
MWI-IA-051126	Barium (Dissolved)	D	5.5	ug/L	J	J-Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.	J	Detection below the RL.
MWI-IA-051126	Barium (Total)	T	5.9	ug/L	J	J-Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.	J	Detection below the RL.
MWI-IA-051126	Bromomethane	T	5	ug/L			UJ	CCV low
MWI-IA-051126	Chloromethane	T	2	ug/L			UJ	CCV low
MWI-IA-051126	Iron (Dissolved)	D	40	ug/L	J	J-Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.	J	Detection below the RL.
MWI-IA-051126	Manganese (Total)	T	3.9	ug/L	J	J-Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.	J	Detection below the RL.
MWI-IA-051126	Mercury (Dissolved)	D	0.09	ug/L	J	J-Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.	J	Detection below the RL.
MWI-IA-051126	Methyliodide	T	5	ug/L			UJ	CCV low
MWI-IA-051126	Zinc (Dissolved)	D	13	ug/L	J	J-Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.	J	Detection below the RL.
MWI-IA-051126	Zinc (Total)	T	12	ug/L	J	J-Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.	J	Detection below the RL.

Notes:
CCV = Closed
Crankcase
Ventilation
J = detected
MDL = method
detection limit
mg/L = milligram per liter
RL = reporting limit
UJ = not detected
ug/L = microgram per liter

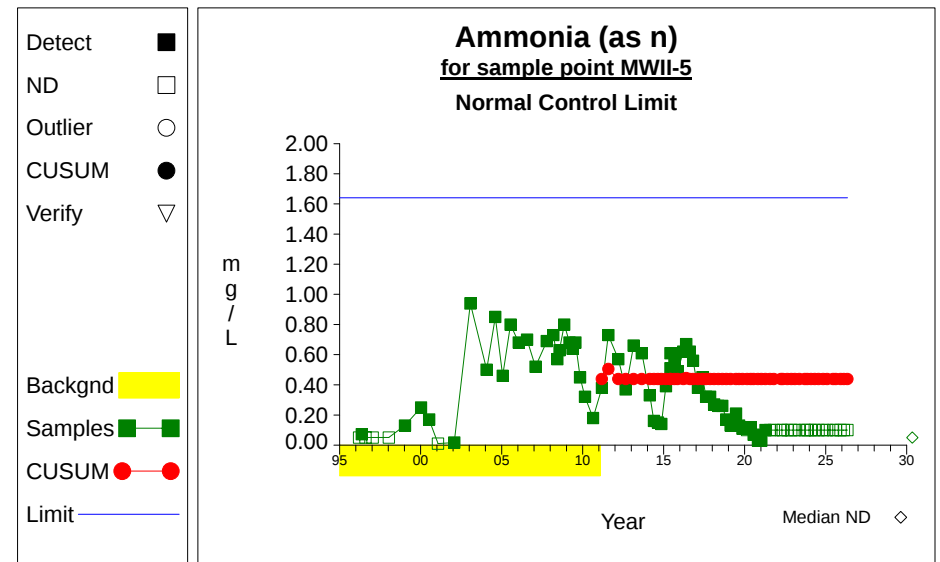
APPENDIX D

Statistical Evaluation of Phase II Landfill Data

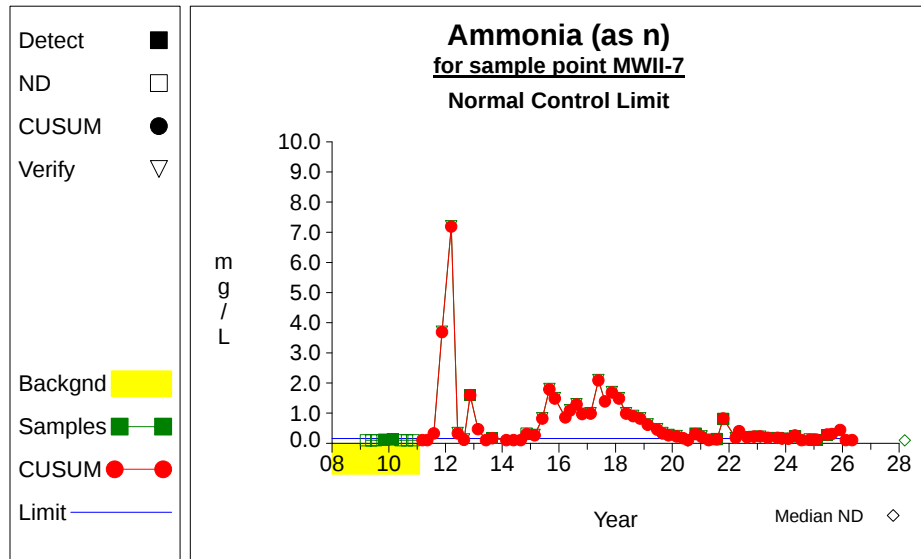
Intra-Well Control Charts / Prediction Limits



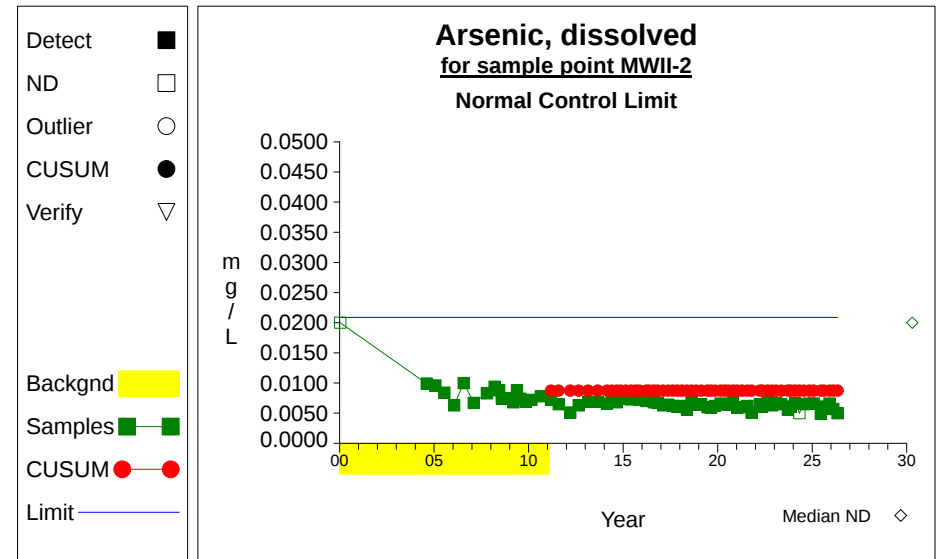
Graph 1



Graph 2

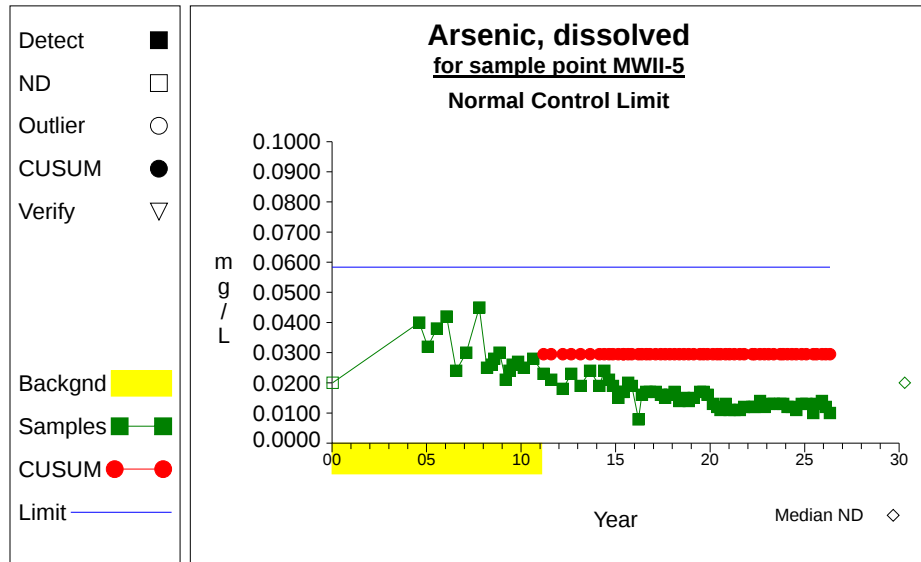


Graph 3

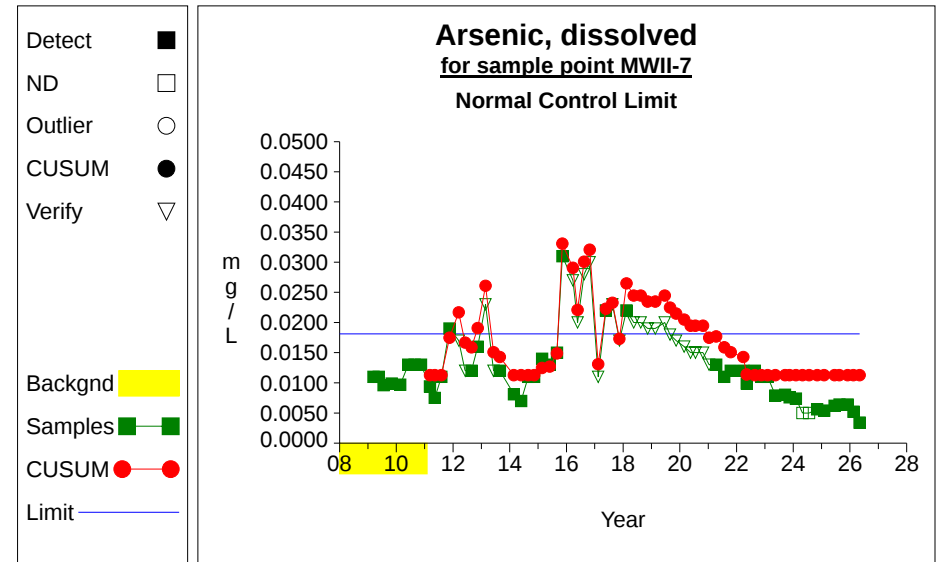


Graph 4

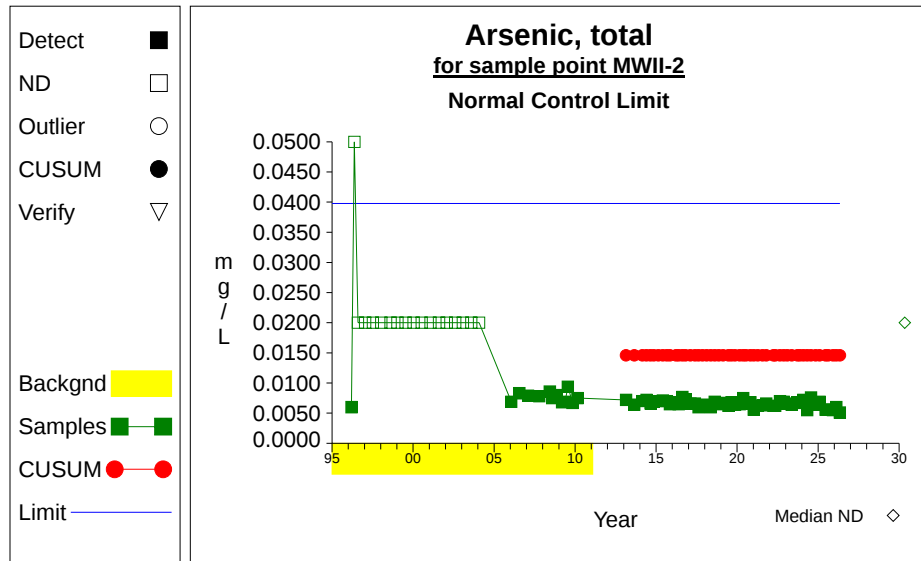
Intra-Well Control Charts / Prediction Limits



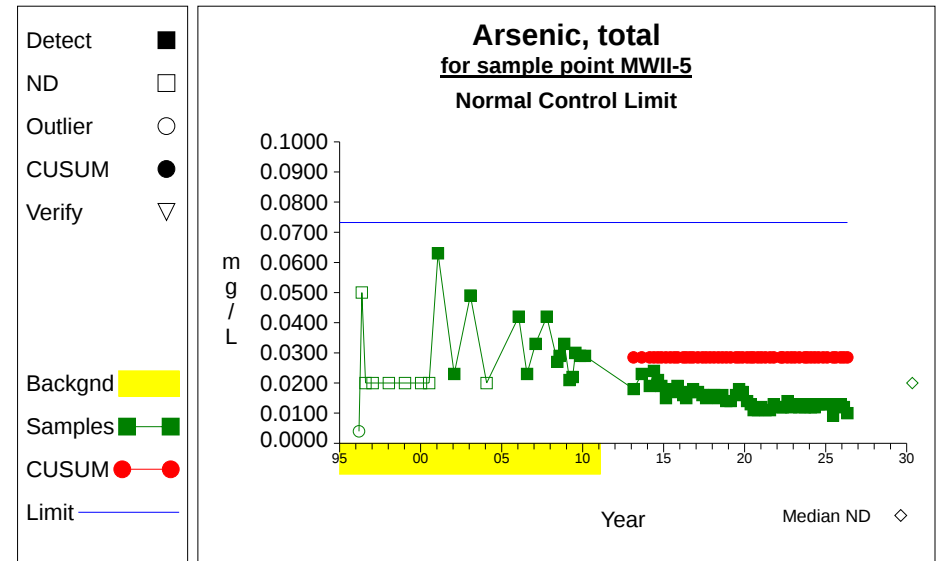
Graph 5



Graph 6

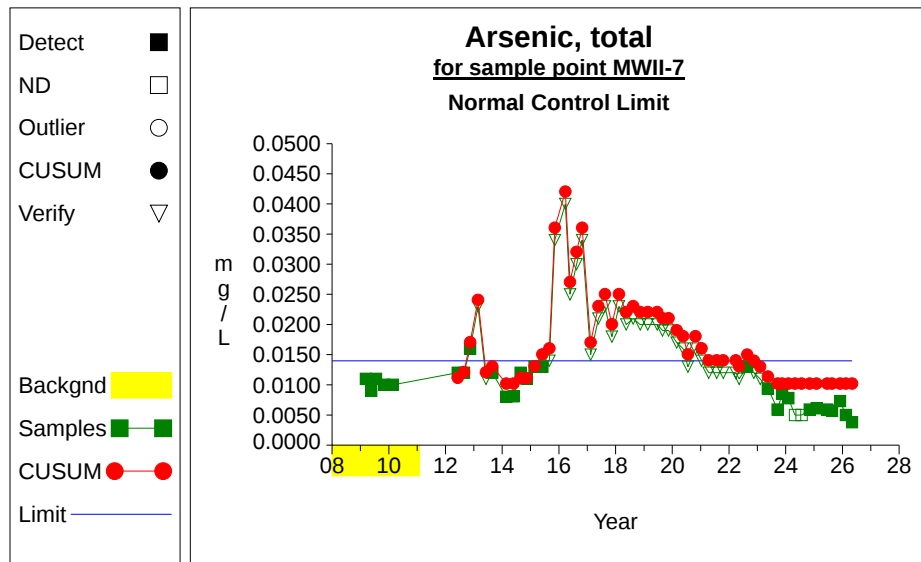


Graph 7

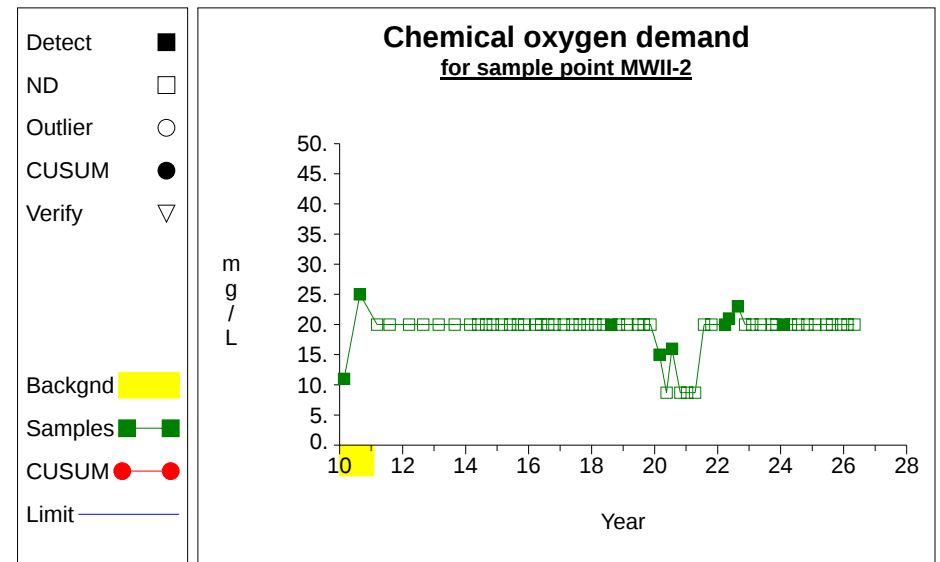


Graph 8

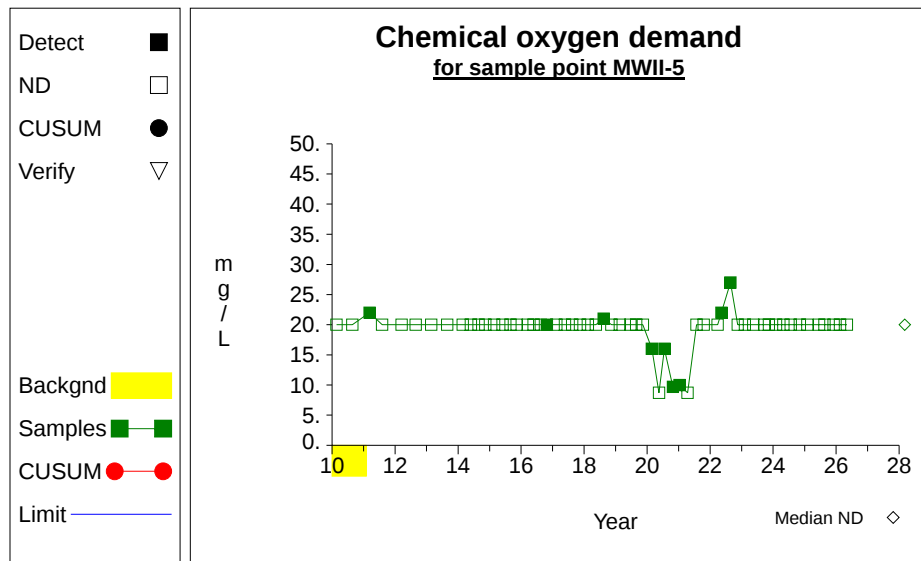
Intra-Well Control Charts / Prediction Limits



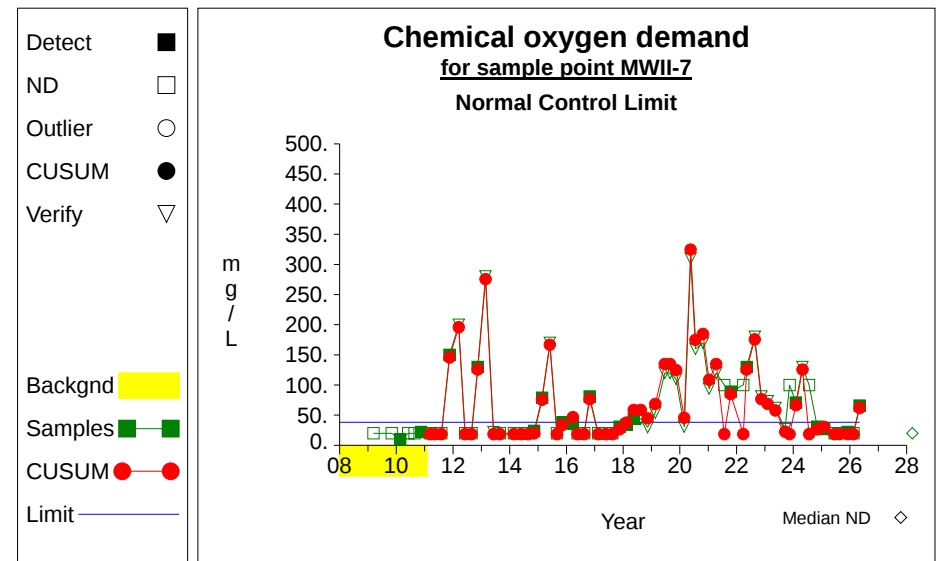
Graph 9



Graph 10

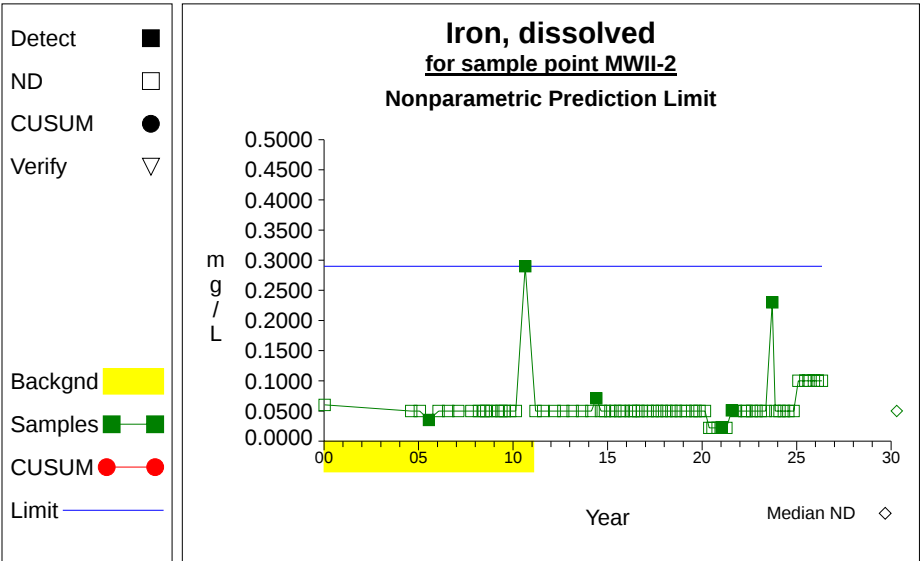


Graph 11

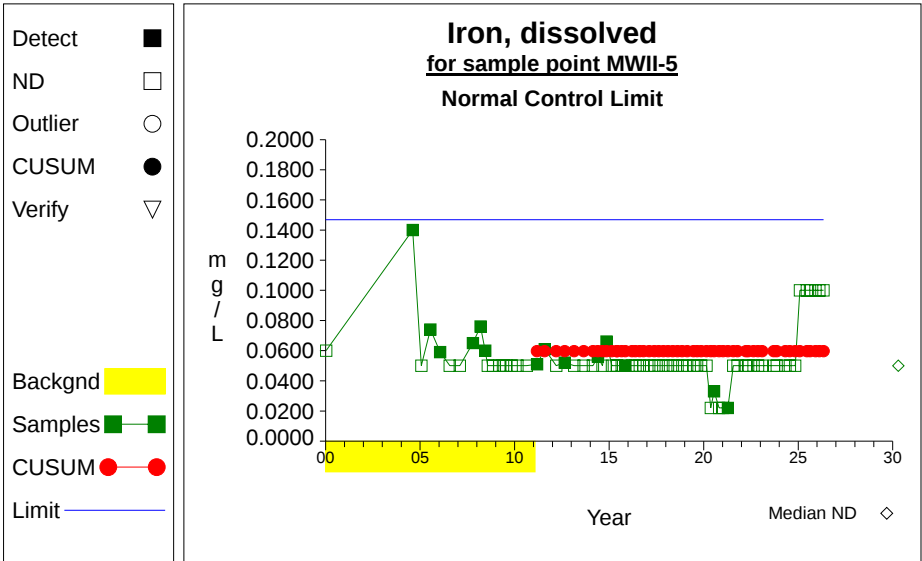


Graph 12

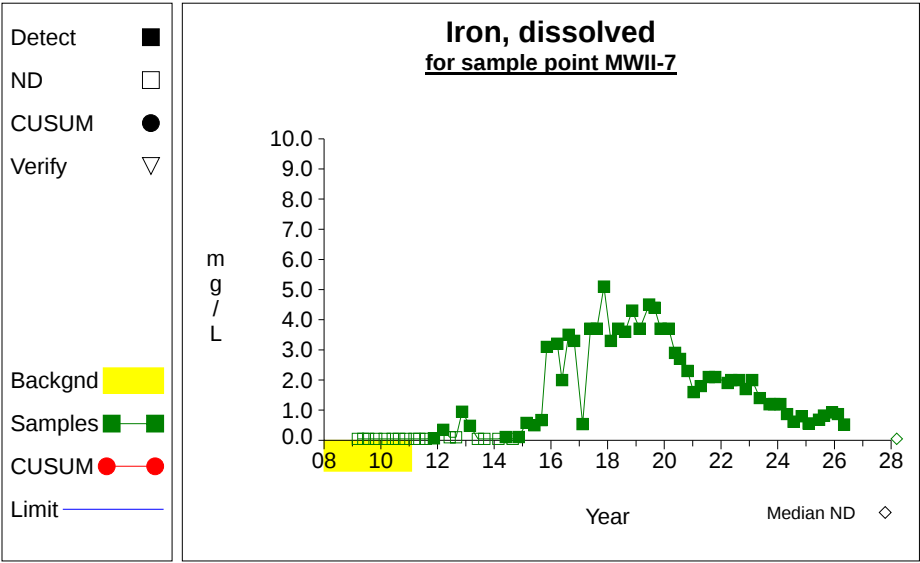
Intra-Well Control Charts / Prediction Limits



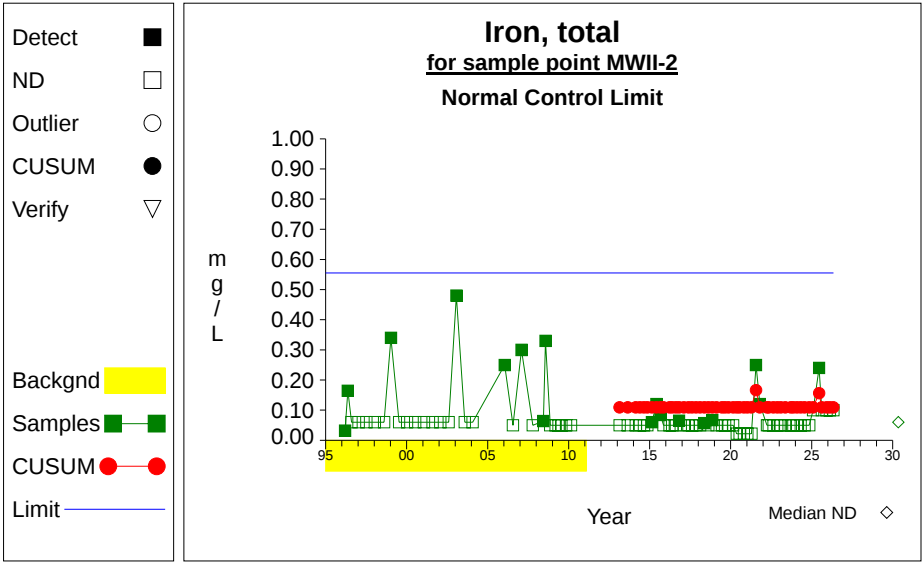
Graph 13



Graph 14

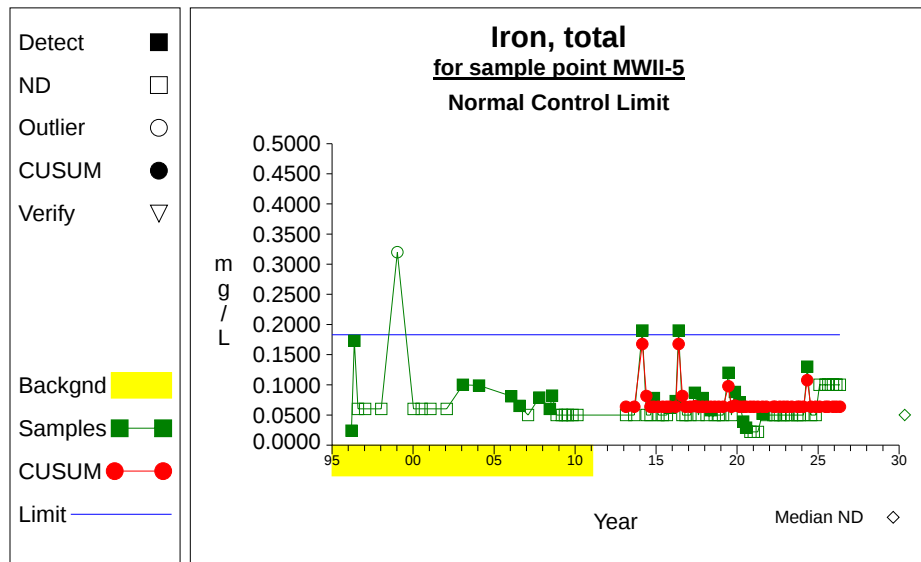


Graph 15

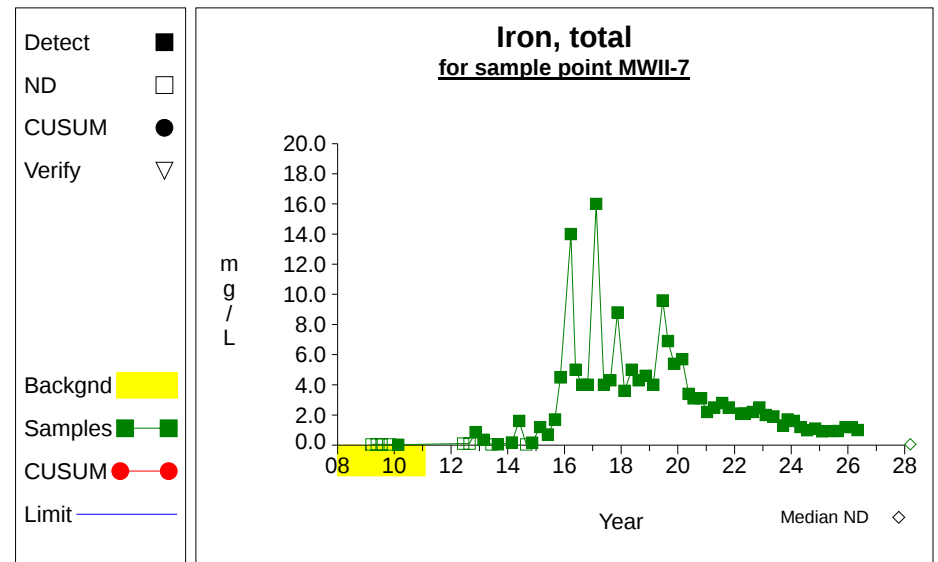


Graph 16

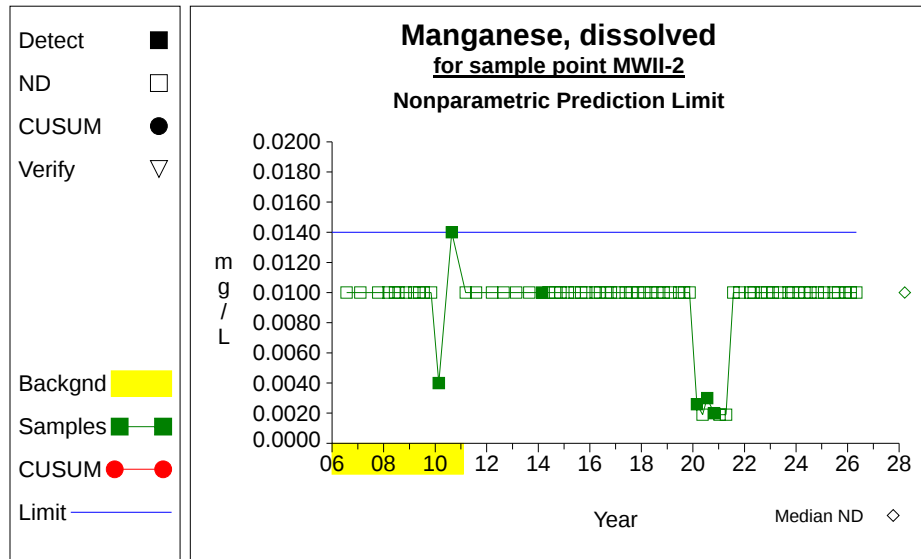
Intra-Well Control Charts / Prediction Limits



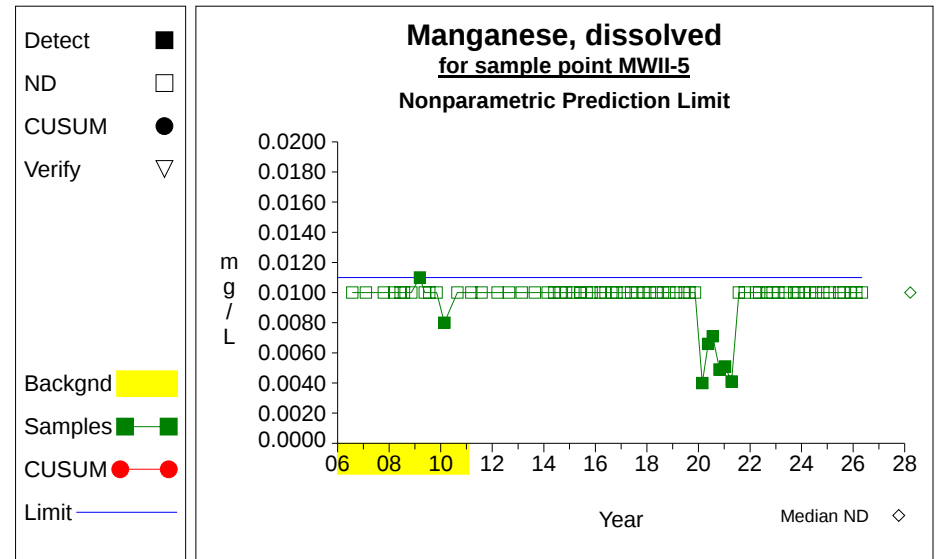
Graph 17



Graph 18

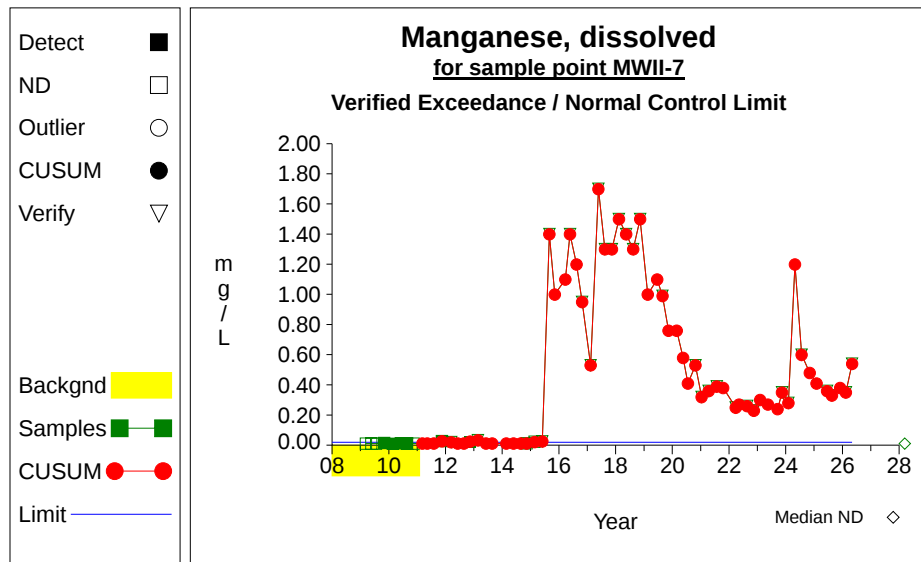


Graph 19

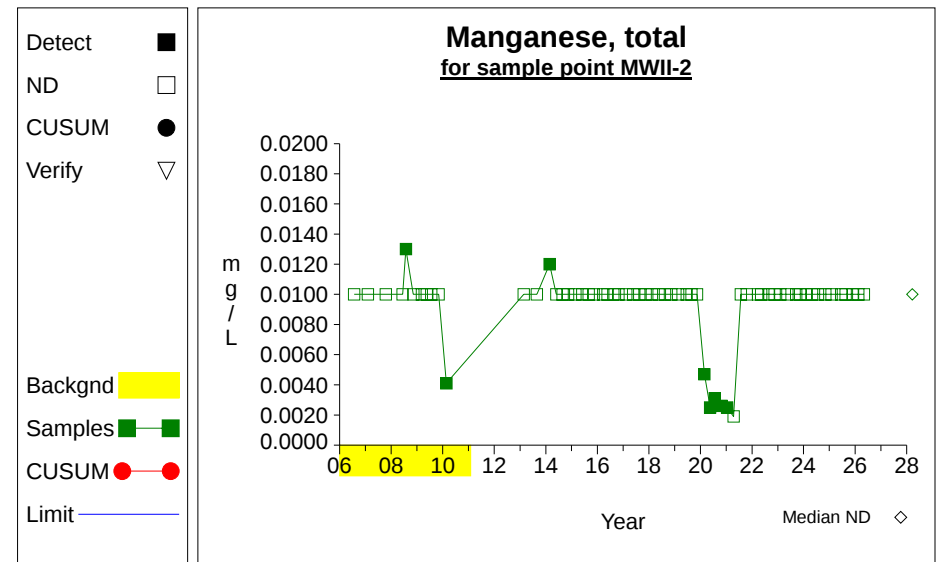


Graph 20

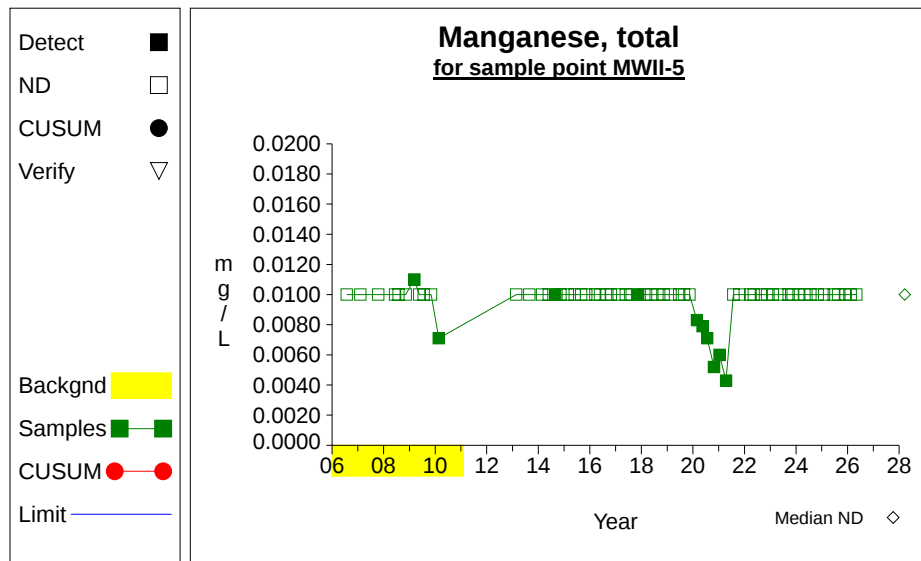
Intra-Well Control Charts / Prediction Limits



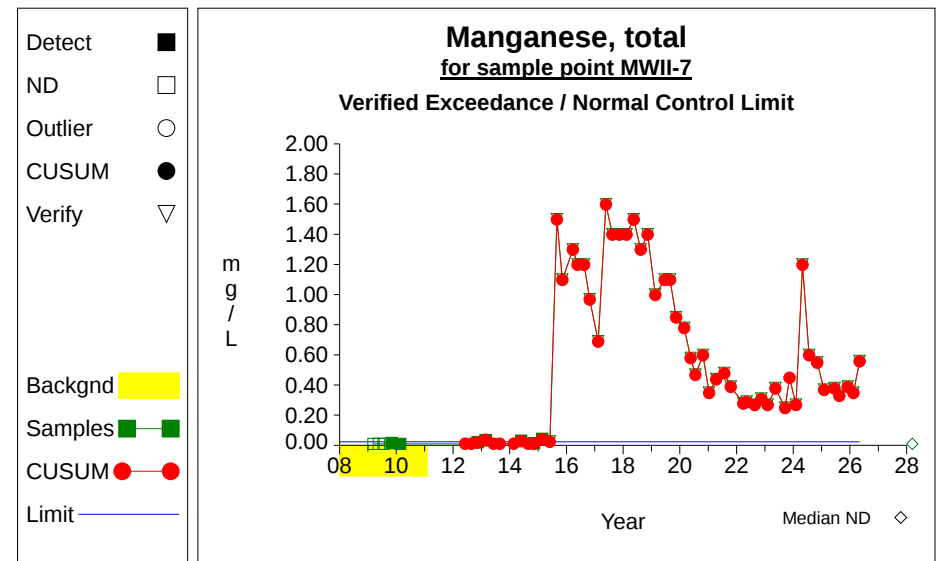
Graph 21



Graph 22

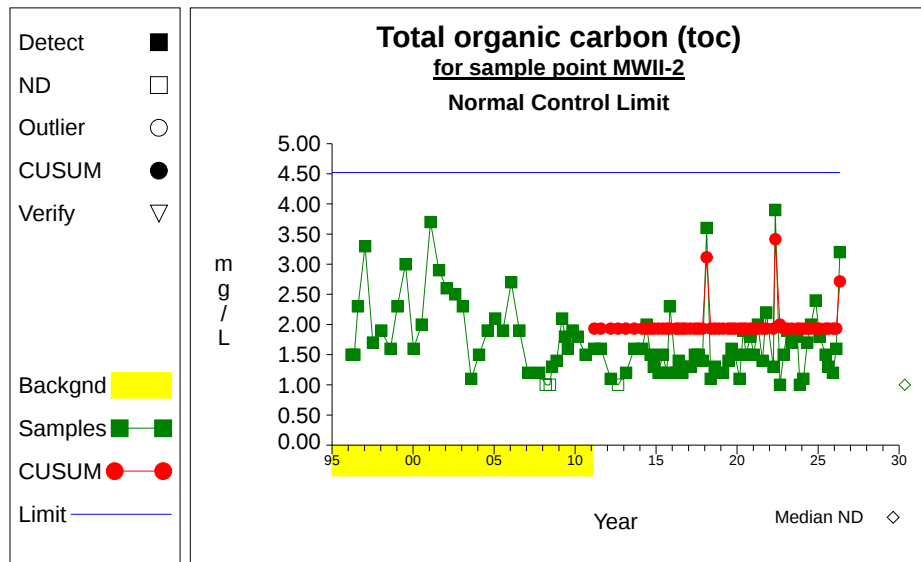


Graph 23

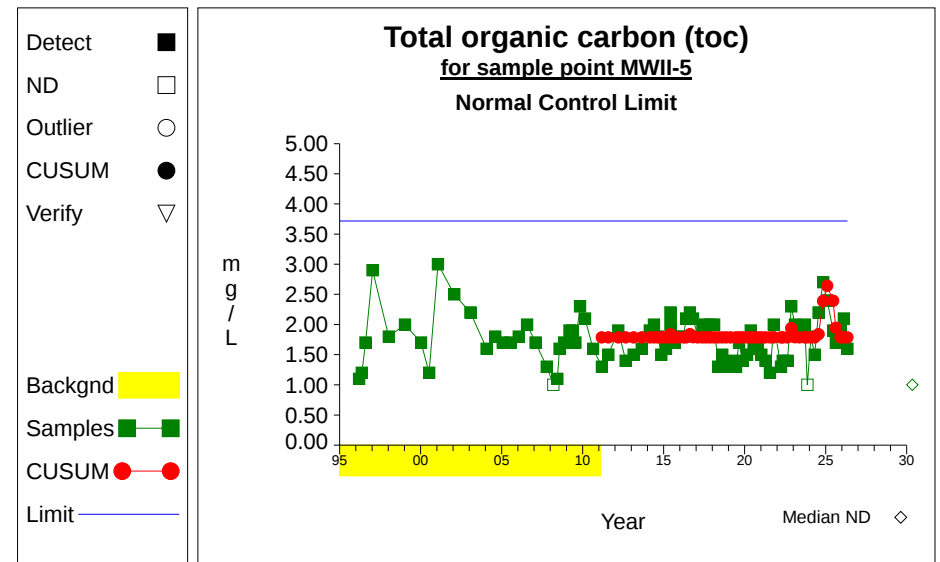


Graph 24

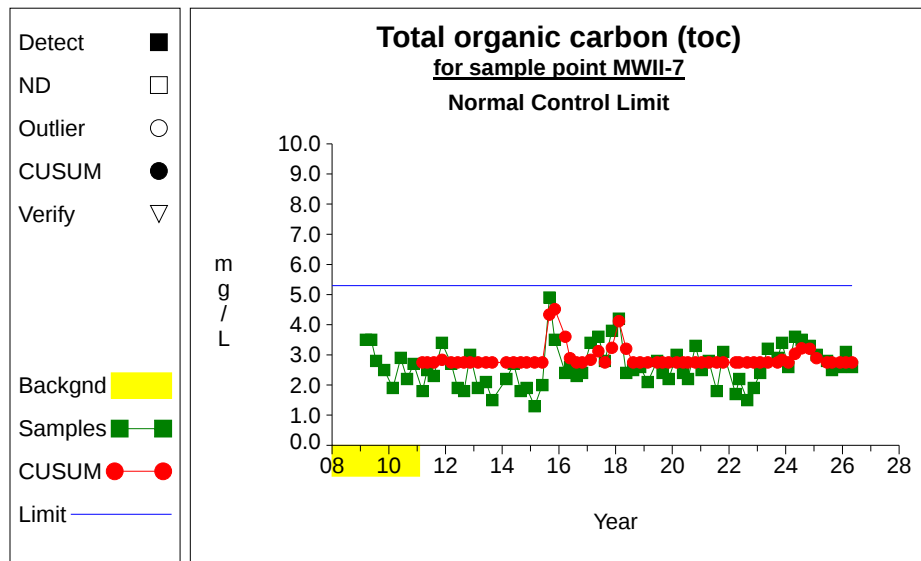
Intra-Well Control Charts / Prediction Limits



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	56	91	0.2593	0.2252	0.1900	0.1100	0.7184	0.4002	1.1600	normal		
Ammonia (as n)	mg/L	MWII-5	29	57	86	0.4383	0.3005	0.1000	0.1000	0.4383	0.4383	1.6404	normal		
Ammonia (as n)	mg/L	MWII-7	8	61	69	0.1063	0.0119	0.1000	0.1000	0.1063	0.1063	0.1597	normal		
Arsenic, dissolved	mg/L	MWII-2	18	56	74	0.0087	0.0030	0.0057	0.0050	0.0087	0.0087	0.0209	normal		
Arsenic, dissolved	mg/L	MWII-5	18	57	75	0.0295	0.0072	0.0120	0.0100	0.0295	0.0295	0.0584	normal		
Arsenic, dissolved	mg/L	MWII-7	8	61	69	0.0113	0.0015	0.0052	0.0034	0.0113	0.0113	0.0181	normal		
Arsenic, total	mg/L	MWII-2	30	52	82	0.0146	0.0063	0.0060	0.0051	0.0146	0.0146	0.0398	normal		
Arsenic, total	mg/L	MWII-5	23	52	76	0.0285	0.0112	0.0120	0.0100	0.0285	0.0285	0.0733	normal		
Arsenic, total	mg/L	MWII-7	5	56	61	0.0102	0.0008	0.0050	0.0038	0.0102	0.0102	0.0140	normal		
Chemical oxygen demand	mg/L	MWII-2	2	56	58										*
Chemical oxygen demand	mg/L	MWII-5	2	56	58										*
Chemical oxygen demand	mg/L	MWII-7	6	61	67	18.6667	4.3205	20.0000	66.0000	18.6667	61.6795	38.1089	normal		
Iron, dissolved	mg/L	MWII-2	18	56	74			0.1000	0.1000			0.2900	nonpar	.99	**
Iron, dissolved	mg/L	MWII-5	18	55	73	0.0597	0.0218	0.1000	0.1000	0.0597	0.0597	0.1469	normal		
Iron, dissolved	mg/L	MWII-7	8	61	69								nonpar *		**
Iron, total	mg/L	MWII-2	30	52	82	0.1094	0.1114	0.1000	0.1000	0.1094	0.1094	0.5551	normal		
Iron, total	mg/L	MWII-5	23	52	76	0.0636	0.0298	0.1000	0.1000	0.0636	0.0636	0.1830	normal		
Iron, total	mg/L	MWII-7	5	56	61								nonpar *		**
Manganese, dissolved	mg/L	MWII-2	13	56	69			0.0100	0.0100			0.0140	nonpar	.99	**
Manganese, dissolved	mg/L	MWII-5	13	57	70			0.0100	0.0100			0.0110	nonpar	.99	**
Manganese, dissolved	mg/L	MWII-7	8	61	69	0.0107	0.0016	0.3500	0.5400	0.3484	0.5384	0.0180	normal		
Manganese, total	mg/L	MWII-2	11	52	63								nonpar *		**
Manganese, total	mg/L	MWII-5	11	52	63								nonpar *		**
Manganese, total	mg/L	MWII-7	5	56	61	0.0112	0.0027	0.3500	0.5600	0.3474	0.5574	0.0233	normal		
Total organic carbon (toc)	mg/L	MWII-2	35	56	91	1.9314	0.6475	1.6000	3.2000	1.9314	2.7144	4.5215	normal		
Total organic carbon (toc)	mg/L	MWII-5	29	57	86	1.7862	0.4823	2.1000	1.6000	1.7862	1.7862	3.7156	normal		
Total organic carbon (toc)	mg/L	MWII-7	8	61	69	2.7500	0.5657	3.1000	2.6000	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-2	12/01/2025		0.7800			1.3084		**
Ammonia (as n)	mg/L	MWII-2	02/15/2026		0.1900			0.7184		
Ammonia (as n)	mg/L	MWII-2	05/03/2026		0.1100			0.4002		
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		

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Table 2

Analytical Data and CUSUM Summary

Constituent	Units	Well	Date	Background	Result		Outlier	CUSUM	Adjusted	
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		
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		

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Table 2

Analytical Data and CUSUM Summary

Constituent	Units	Well	Date	Background	Result		Outlier	CUSUM	Adjusted	
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		
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-5	12/01/2025		0.1000	ND		0.4383		
Ammonia (as n)	mg/L	MWII-5	02/15/2026		0.1000	ND		0.4383		
Ammonia (as n)	mg/L	MWII-5	05/03/2026		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		**

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Table 2

Analytical Data and CUSUM Summary

Constituent	Units	Well	Date	Background	Result		Outlier	CUSUM	Adjusted	
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		**
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		**
Ammonia (as n)	mg/L	MWII-7	12/01/2025		0.4400			0.4419		**
Ammonia (as n)	mg/L	MWII-7	02/15/2026		0.1000	ND		0.1063		
Ammonia (as n)	mg/L	MWII-7	05/03/2026		0.1000	ND		0.1063		
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					

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Table 2

Analytical Data and CUSUM Summary

Constituent	Units	Well	Date	Background	Result		Outlier	CUSUM	Adjusted	
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					
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		

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Table 2

Analytical Data and CUSUM Summary

Constituent	Units	Well	Date	Background	Result		Outlier	CUSUM	Adjusted	
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		
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-2	12/01/2025		0.0066			0.0087		
Arsenic, dissolved	mg/L	MWII-2	02/15/2026		0.0057			0.0087		
Arsenic, dissolved	mg/L	MWII-2	05/03/2026		0.0050			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					

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

ND = Not detected, Result = detection limit.

Table 2

Analytical Data and CUSUM Summary

Constituent	Units	Well	Date	Background	Result		Outlier	CUSUM	Adjusted	
Arsenic, 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		
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		

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Table 2

Analytical Data and CUSUM Summary

Constituent	Units	Well	Date	Background	Result		Outlier	CUSUM	Adjusted	
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		
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-5	12/01/2025		0.0140			0.0295		
Arsenic, dissolved	mg/L	MWII-5	02/15/2026		0.0120			0.0295		
Arsenic, dissolved	mg/L	MWII-5	05/03/2026		0.0100			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		

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

ND = Not detected, Result = detection limit.

Table 2

Analytical Data and CUSUM Summary

Constituent	Units	Well	Date	Background	Result		Outlier	CUSUM	Adjusted	
Arsenic, 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		**
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, dissolved	mg/L	MWII-7	12/01/2025		0.0064			0.0113		

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

ND = Not detected, Result = detection limit.

Table 2

Analytical Data and CUSUM Summary

Constituent	Units	Well	Date	Background	Result		Outlier	CUSUM	Adjusted	
Arsenic, dissolved	mg/L	MWII-7	02/15/2026		0.0052			0.0113		
Arsenic, dissolved	mg/L	MWII-7	05/03/2026		0.0034			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				
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		

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Table 2

Analytical Data and CUSUM Summary

Constituent	Units	Well	Date	Background	Result		Outlier	CUSUM	Adjusted	
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		
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-2	12/01/2025		0.0055			0.0146		
Arsenic, total	mg/L	MWII-2	02/15/2026		0.0060			0.0146		
Arsenic, total	mg/L	MWII-2	05/03/2026		0.0051			0.0146		

* - Outlier for that well and constituent.

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*** - ND value replaced with median RL.

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

ND = Not detected, Result = detection limit.

Table 2

Analytical Data and CUSUM Summary

Constituent	Units	Well	Date	Background	Result		Outlier	CUSUM	Adjusted	
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					
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		

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

ND = Not detected, Result = detection limit.

Table 2

Analytical Data and CUSUM Summary

Constituent	Units	Well	Date	Background	Result		Outlier	CUSUM	Adjusted	
Arsenic, total	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		
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-5	12/01/2025		0.0130			0.0285		
Arsenic, total	mg/L	MWII-5	02/15/2026		0.0120			0.0285		
Arsenic, total	mg/L	MWII-5	05/03/2026		0.0100			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		**

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Table 2

Analytical Data and CUSUM Summary

Constituent	Units	Well	Date	Background	Result		Outlier	CUSUM	Adjusted	
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		**
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		

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Table 2

Analytical Data and CUSUM Summary

Constituent	Units	Well	Date	Background	Result		Outlier	CUSUM	Adjusted	
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		
Arsenic, total	mg/L	MWII-7	12/01/2025		0.0073			0.0102		
Arsenic, total	mg/L	MWII-7	02/15/2026		0.0050			0.0102		
Arsenic, total	mg/L	MWII-7	05/03/2026		0.0038			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				
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				

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*** - ND value replaced with median RL.

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

ND = Not detected, Result = detection limit.

Table 2

Analytical Data and CUSUM Summary

Constituent	Units	Well	Date	Background	Result		Outlier	CUSUM	Adjusted	
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-2	12/01/2025		20.0000	ND				
Chemical oxygen demand	mg/L	MWII-2	02/15/2026		20.0000	ND				
Chemical oxygen demand	mg/L	MWII-2	05/03/2026		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					
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				

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

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Table 2

Analytical Data and CUSUM Summary

Constituent	Units	Well	Date	Background	Result		Outlier	CUSUM	Adjusted	
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				
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-5	12/01/2025		20.0000	ND				
Chemical oxygen demand	mg/L	MWII-5	02/15/2026		20.0000	ND				

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

ND = Not detected, Result = detection limit.

Table 2

Analytical Data and CUSUM Summary

Constituent	Units	Well	Date	Background	Result		Outlier	CUSUM	Adjusted	
Chemical oxygen demand	mg/L	MWII-5	05/03/2026		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		
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		**

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Table 2

Analytical Data and CUSUM Summary

Constituent	Units	Well	Date	Background	Result		Outlier	CUSUM	Adjusted	
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		
Chemical oxygen demand	mg/L	MWII-7	12/01/2025		22.0000			18.6667		
Chemical oxygen demand	mg/L	MWII-7	02/15/2026		20.0000	ND		18.6667		
Chemical oxygen demand	mg/L	MWII-7	05/03/2026		66.0000			61.6795		**
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				
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				

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Table 2

Analytical Data and CUSUM Summary

Constituent	Units	Well	Date	Background	Result		Outlier	CUSUM	Adjusted	
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				
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				

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Table 2

Analytical Data and CUSUM Summary

Constituent	Units	Well	Date	Background	Result		Outlier	CUSUM	Adjusted	
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-2	12/01/2025		0.1000	ND				
Iron, dissolved	mg/L	MWII-2	02/15/2026		0.1000	ND				
Iron, dissolved	mg/L	MWII-2	05/03/2026		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		
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		

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Table 2

Analytical Data and CUSUM Summary

Constituent	Units	Well	Date	Background	Result		Outlier	CUSUM	Adjusted	
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		
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		

* - Outlier for that well and constituent.

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

ND = Not detected, Result = detection limit.

Table 2

Analytical Data and CUSUM Summary

Constituent	Units	Well	Date	Background	Result		Outlier	CUSUM	Adjusted	
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-5	12/01/2025		0.1000	ND		0.0597		
Iron, dissolved	mg/L	MWII-5	02/15/2026		0.1000	ND		0.0597		
Iron, dissolved	mg/L	MWII-5	05/03/2026		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					

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

ND = Not detected, Result = detection limit.

Table 2

Analytical Data and CUSUM Summary

Constituent	Units	Well	Date	Background	Result		Outlier	CUSUM	Adjusted	
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, dissolved	mg/L	MWII-7	12/01/2025		0.9300					
Iron, dissolved	mg/L	MWII-7	02/15/2026		0.8700					
Iron, dissolved	mg/L	MWII-7	05/03/2026		0.5200					
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				

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ND = Not detected, Result = detection limit.

Table 2

Analytical Data and CUSUM Summary

Constituent	Units	Well	Date	Background	Result		Outlier	CUSUM	Adjusted	
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				
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		

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ND = Not detected, Result = detection limit.

Table 2

Analytical Data and CUSUM Summary

Constituent	Units	Well	Date	Background	Result		Outlier	CUSUM	Adjusted	
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		
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-2	12/01/2025		0.1000	ND		0.1094		
Iron, total	mg/L	MWII-2	02/15/2026		0.1000	ND		0.1094		
Iron, total	mg/L	MWII-2	05/03/2026		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					

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Table 2

Analytical Data and CUSUM Summary

Constituent	Units	Well	Date	Background	Result		Outlier	CUSUM	Adjusted	
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					
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		

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Table 2

Analytical Data and CUSUM Summary

Constituent	Units	Well	Date	Background	Result		Outlier	CUSUM	Adjusted	
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		
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-5	12/01/2025		0.1000	ND		0.0636		
Iron, total	mg/L	MWII-5	02/15/2026		0.1000	ND		0.0636		
Iron, total	mg/L	MWII-5	05/03/2026		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					

* - 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	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					
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					
Iron, total	mg/L	MWII-7	12/01/2025		1.2000					
Iron, total	mg/L	MWII-7	02/15/2026		1.2000					
Iron, total	mg/L	MWII-7	05/03/2026		1.0000					
Manganese, dissolved	mg/L	MWII-2	07/25/2006	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, 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					
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				

* - 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	02/27/2020		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		
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-2	12/01/2025		0.0100	ND		
Manganese, dissolved	mg/L	MWII-2	02/15/2026		0.0100	ND		
Manganese, dissolved	mg/L	MWII-2	05/03/2026		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			
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			
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		

* - 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	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		
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		

* - 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	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-5	12/01/2025		0.0100	ND				
Manganese, dissolved	mg/L	MWII-5	02/15/2026		0.0100	ND				
Manganese, dissolved	mg/L	MWII-5	05/03/2026		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					
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		**

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

ND = Not detected, Result = detection limit.

Table 2

Analytical Data and CUSUM Summary

Constituent	Units	Well	Date	Background	Result		Outlier	CUSUM	Adjusted	
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		**
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, dissolved	mg/L	MWII-7	12/01/2025		0.3800			0.3784		**
Manganese, dissolved	mg/L	MWII-7	02/15/2026		0.3500			0.3484		**
Manganese, dissolved	mg/L	MWII-7	05/03/2026		0.5400			0.5384		**
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				

* - Outlier for that well and constituent.

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*** - ND value replaced with median RL.

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

ND = Not detected, Result = detection limit.

Table 2

Analytical Data and CUSUM Summary

Constituent	Units	Well	Date	Background	Result		Outlier	CUSUM	Adjusted	
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				
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				

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

ND = Not detected, Result = detection limit.

Table 2

Analytical Data and CUSUM Summary

Constituent	Units	Well	Date	Background	Result		Outlier	CUSUM	Adjusted	
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-2	12/01/2025		0.0100	ND				
Manganese, total	mg/L	MWII-2	02/15/2026		0.0100	ND				
Manganese, total	mg/L	MWII-2	05/03/2026		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				
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				

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

ND = Not detected, Result = detection limit.

Table 2

Analytical Data and CUSUM Summary

Constituent	Units	Well	Date	Background	Result		Outlier	CUSUM	Adjusted	
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				
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-5	12/01/2025		0.0100	ND				
Manganese, total	mg/L	MWII-5	02/15/2026		0.0100	ND				
Manganese, total	mg/L	MWII-5	05/03/2026		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				

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

ND = Not detected, Result = detection limit.

Table 2

Analytical Data and CUSUM Summary

Constituent	Units	Well	Date	Background	Result		Outlier	CUSUM	Adjusted	
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		**
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		**

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

ND = Not detected, Result = detection limit.

Table 2

Analytical Data and CUSUM Summary

Constituent	Units	Well	Date	Background	Result		Outlier	CUSUM	Adjusted	
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		**
Manganese, total	mg/L	MWII-7	12/01/2025		0.3900			0.3874		**
Manganese, total	mg/L	MWII-7	02/15/2026		0.3500			0.3474		**
Manganese, total	mg/L	MWII-7	05/03/2026		0.5600			0.5574		**
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					
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				

* - Outlier for that well and constituent.

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

ND = Not detected, Result = detection limit.

Table 2

Analytical Data and CUSUM Summary

Constituent	Units	Well	Date	Background	Result		Outlier	CUSUM	Adjusted	
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		
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		

* - Outlier for that well and constituent.

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*** - ND value replaced with median RL.

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

ND = Not detected, Result = detection limit.

Table 2

Analytical Data and CUSUM Summary

Constituent	Units	Well	Date	Background	Result	Outlier	CUSUM	Adjusted	
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-2	12/01/2025		1.2000		1.9314		
Total organic carbon (toc)	mg/L	MWII-2	02/15/2026		1.6000		1.9314		
Total organic carbon (toc)	mg/L	MWII-2	05/03/2026		3.2000		2.7144		
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				
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				

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Table 2

Analytical Data and CUSUM Summary

Constituent	Units	Well	Date	Background	Result		Outlier	CUSUM	Adjusted	
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		
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		

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

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Table 2

Analytical Data and CUSUM Summary

Constituent	Units	Well	Date	Background	Result		Outlier	CUSUM	Adjusted	
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-5	12/01/2025		1.9000			1.7862		
Total organic carbon (toc)	mg/L	MWII-5	02/15/2026		2.1000			1.7862		
Total organic carbon (toc)	mg/L	MWII-5	05/03/2026		1.6000			1.7862		
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		
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		

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*** - ND value replaced with median RL.

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

ND = Not detected, Result = detection limit.

Table 2

Analytical Data and CUSUM Summary

Constituent	Units	Well	Date	Background	Result	Outlier	CUSUM	Adjusted
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	
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	

* - 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	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		
Total organic carbon (toc)	mg/L	MWII-7	12/01/2025		2.6000			2.7500		
Total organic carbon (toc)	mg/L	MWII-7	02/15/2026		3.1000			2.7500		
Total organic carbon (toc)	mg/L	MWII-7	05/03/2026		2.6000			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.