

2023
ANNUAL GROUNDWATER QUALITY REPORT
OF
THE PLYMOUTH COUNTY SANITARY LANDFILL
75-SDP-01-74P
LE MARS, IOWA

by:
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November, 2023



6052-23A.320

Narrative

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Section 1.0 Background Information

1.1 Report Format

Table 1 through Table 13 are attached to this report and satisfy the January 16, 2020 IDNR requirement to provide the tables to meet the IDNR format requirements (Doc #96764).

1.2 Report Priority

No requests are made herein for priority review of this document.

1.3 Period of Report Coverage

Water quality data evaluation is based on a running compilation of data beginning in April, 11, 2018. Statistical evaluations herein are based on the most recent water quality data collected through October 11, 2023.

1.4 Current Site Maps

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

Figure 2 represents the groundwater contour map.

1.5 Site Status and Applicable Rules

Site Location

The Plymouth County Sanitary Landfill is located in a portion of the NE¼ NE¼ of Section 34, T93N, R45W, Plymouth County, Iowa. The site has a physical address of 34898 150th Street, Le Mars, Iowa 51301. The facility operates under the Iowa Department of Natural Resources (IDNR) Permit Number 75-SDP-01-74P. The solid waste stream includes only construction and demolition waste.

Site Geology/Hydrogeology

The geology and hydrogeology are described in the 1991 Hydrogeologic Assessment Report (Doc #24610). Previous land use was undeveloped agricultural land.

The description of the site geology is:

“The landfill is situated in the loess hills region of western Iowa which is characterized by a mantle of wind derived silts and clays (loess) overlying glacial drift deposits. The landscape is well-drained. Accumulative thicknesses of loess and glacial drift are reported to be on the order of less than 50 to 150 feet. The uppermost bedrock unit at the site is shale of the Cretaceous-aged Graneros Formation or underlying Woodbury Member (primarily shale) of the Cretaceous-aged Dakota Formation. The Graneros Shale is of limited extent in Plymouth County. Shale of the underlying Woodbury Member becomes the uppermost bedrock unit where the Graneros is absent. Although the Woodbury Member reportedly contains occasional sand lenses within shale, IGS test borings revealed the Woodbury to consist of shale near the landfill site. Underlying the Woodbury Member Shale is the Nishnabotna Member of the Dakota Formation. The Nishnabotna

Member is a massive sand stone unit and a regional aquifer which supplies a substantial amount of water to the northwest Iowa region.

Loess was typically encountered as the uppermost lithologic unit. The exceptions to this observation were where fill material was overlying loess at some of the boring locations and where loess was not observed (MW-9 and PZ-9) which may be due to loess removal resulting from landfill operations. Loess was described in the field as brown lean clay, however the detection of a substantial amount of sand during grain size analysis in some loess samples may suggest that the loess has been reworked or redeposited.

Glacial drift was observed to underlie the loess deposits. Glacial till was generally described as brown to dark gray lean clay containing various amounts of sand and gravel.

Thin sand and gravel seams on the order of 1 to 5 centimeters thick were also observed within glacial till. Thicker sand units or lenses on the order of 1 to 14 feet thick were also observed within glacial till and are indicated on the boring logs and geologic profiles as individual lithologic units separate from glacial till."

Landfill Layout

The approved landfill is configured in a series of adjoining cells designated as Cell1-N through Cell 4-N, and Cell 1-S through Cell 11-S as illustrated on Figure 1.

Groundwater collection and diversion piping does not exists below the filled portions of this facility.

Applicable Rules

Iowa Administrative Code (IAC) 567-114 (2002) is applicable to the site.

MONITORING WELL MAINTENANCE PERFORMANCE REEVALUATION

Table 3 outlines the status of well performance and maintenance activities performed as required by IAC 567-114.21(2). Water elevation information is summarized in Table 4, Table 4A, and Table 4B.

High & Low Water Levels

Current year water elevation data is included on Table 4. Historic water elevation data (2017 to present) is included in Table 4A, while water elevation data prior to 2017 is included in Table 4B. The high and low water elevations in 2023 are summarized in Table 4, while the minimum and maximum elevations since 2017 are highlighted on Table 4A.

A Water Table Contour Map (Figure 2) dated October 11, 2023, is included with this report and illustrates the water surfaces and the effects of the topography.

Review of the 2023 water elevation data does not indicate any remarkable water elevation conditions.

Well Depth & Sedimentation

Well depth measurements were made October 11, 2023. Review of the well depth data included on Table 4 do not indicate that well sedimentation is occurring at any site monitoring wells.

Well Recharge Rates & Chemistry

The general in-situ permeability was defined in the 1998 revised Hydrologic Monitoring System Plan for the Plymouth County Landfill (Doc #8197):

“Resultsindicated an average measured horizontal conductivity of 4.4×10^{-4} centimeters per second (cm/s) for glacial drift and 6.2×10^{-6} cm/s for underlying shale and weathered shale collectively. The relatively higher conductivity for glacial drift is attributable to small sand seams and large sand lenses of glacio-fluvial origin within the glacial drift mass”.

A variance to IAC 114.21 was issued by IDNR on March 10, 2021 (Doc # 99960) and authorizes performance of biennial well recharge rate evaluation in lieu of the in-situ permeability tests every five (5) years.

Table 4C is included summarizing the flow rates obtained August 2021 and those obtained in May 2023 and October 2023. Flow rates at each well do demonstrate a range which is attributed to the conditions in each well during the sample collection episode. Seasonal water level appears to play a part in the recorded flow rates, especially when certain wells are pumped dry during purging and/or sample collection activities.

The flow rate is sufficient in all cases to collect an appropriate sample, except at MW-9 in 2023 when the well was recorded as dry on both May 3, 2023 and October 11, 2023.

Flow rate information indicates that recharge to the individual wells remains sufficient to promote collection of representative water quality samples and the wells were functioning as intended. Monitoring well flow rate reevaluation is due every other year based on the March 10, 2021 variance to 114.21(2)“d”, and should be evaluated again in 2025.

Based on the apparent static conditions across the site, it appears that the semi-annual water elevation data is sufficient to adequately monitor the hydrologic condition of the site. Review of the water elevation data for 2023 does not indicate excessive variability compared to historic water elevation data. The wells are interpreted to be appropriately located to detect any impact, should it occur.

Section 2.0 Reporting Period Monitoring Activities

The Hydrologic Monitoring for the site is approved by Special Provision 4 of the Revised Permit dated August 4, 2023 (Doc# 107394). The current HMSP is summarized in the Table 1. The HMSP Implementation Schedule for 2024 is itemized in Table 2.

Background monitoring wells are restricted to a single well (MW-17). The background monitoring well is functioning as valid sampling point based on the hydrogeology and the water quality results,

however, additional existing site monitoring wells should likely be designated as background wells to incorporate the natural variability of water quality throughout the site. Consideration of supplemental background water quality from existing site monitoring wells will be discussed in the future under separate cover.

Downgradient monitoring points include MW-7, MW-8, MW-9, MW-10, MW-11, MW-12, MW-13, MW-14, and MW-16. Provision 4e of the Permit requires semi-annual sampling for indicator compounds (pursuant IAC 114.26(4)"e") to be performed at the designated monitoring wells at the site. The TOX and phenol testing requirements included in IAC 114.26(4)"f" are required annually.

Supplemental VOC testing is required at MW-7, MW-8, MW-10, MW-12, MW-14, and MW-16 pursuant to the Groundwater Assessment Plan Update dated June 27, 2019 (Doc #95503) and approved by Special Provision 4f of the Revised Permit. The supplemental VOC testing parameters include benzene, cis-1,2-dichloroethene, 1,2-dichloropropane, methyl chloride, PCE, TCE, and vinyl chloride.

A summary of the planned 2024 sample collection events at each well is included on Table 2.

Field sampling information for the May 3, 2023 and October 11, 2023 sampling episodes is included on the field forms (IDNR Form 542-1322) in Appendix A.

A comprehensive summary of Analytical Data for the episodes between August 9, 1996 and October 11, 2023 is included on Table 9.

2.1 Current Detection Monitoring Activities

The background well is currently MW-17.

Downgradient monitoring points include MW-7, MW-8, MW-9, MW-10, MW-11, MW-12, MW-13, MW-14, and MW-16.

2.2 Current Assessment Monitoring Activities

There are no assessment monitoring activities at the site.

2.3 Current Corrective Action Activities

As illustrated in Figure 1, there are eleven (11) gas vents (GV-1 through GV-11) that were installed in September 2020 (Doc #98440). The vents are installed as a corrective action in order to reduce the potential water quality impacts by VOC at MW-7, MW-8, and MW-12. MW-7, MW-8, and MW-12 are evaluated to determine the success of the corrective action gas vents.

Section 3.0 Data Evaluation and Summary

Field Sampling Forms for the May 3, 2023 and October 11, 2023 sample collection episodes are included in Appendix A. Chemical analytical results for the May 3, 2023 and October 11, 2023 sample collection episodes are included in Appendix B. The cumulative chemical analytical data is also presented in summary form in Table 9.

Statistical Evaluations are prepared by Otter Creek Environmental Services for the Spring and Fall monitoring episodes. The Groundwater Statistics Report for the Plymouth County Sanitary Landfill, Semi-Annual Monitoring Events in 2023, dated November, 2023 is included in Appendix C.

SITE SPECIFIC GWPS

There are no Site-Specific GWPS established for this facility. Where GWPS exist, they are listed in the Statewide Standards published in Iowa Administrative Code (IAC) 567, Chapter 137. For many compounds tested, GWPS do not exist (Table 5). For compounds that do have GWPS, the published IAC 567, Chapter 137 GWPS are utilized.

STATISTICALLY SIGNIFICANT INCREASES (SSI)

Test results from background monitoring well MW-17 (Table 5) are utilized to establish background conditions of site groundwater.

The current HMSP and sample collection methods have been in-place since April 11, 2018. All downgradient well data collected since April 11, 2018 is evaluated herein. In the downgradient wells, compounds that have exceeded a calculated control limit in 2023 are summarized in Table 6.

The water quality data at each downgradient well is also evaluated over time in Table 7 which summarizes compounds in downgradient wells that have exceeded a control limit since April 11, 2018.

Note that in wells where compounds have been detected that exceed a control limit in 2018 - 2023, supplemental sampling has not been implemented. The supplemental sampling approved in 2019 for VOC has been on-going to gauge water quality and water quality changes over time.

Table 7 summarizes compounds in downgradient wells that exceed a GWPS. It is noted that the only VOC in MW-7, MW-8, MW-12, and MW-14 have been detected in concentrations that exceed a GWPS. There are no other compounds recorded that exceed the GWPS.

No additional sampling is recommended at this time.

ASSESSMENT MONITORING SUMMARY

Not Applicable.

STATISTICALLY SIGNIFICANT LEVELS (SSL)

The detections that exceed site prediction limits (brown highlights on Table 7) are utilized to calculate the Confidence Interval (the 95% lower confidence limits (LCL) and the 95% upper control limits (UCL)) in accordance with the 2009 Unified Guidance for Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities by US EPA. The 95% LCL values are compared to applicable GWPS. Any 95% LCL value that exceeds an applicable GWPS is recorded as an SSL.

The Confidence Intervals (95% LCL and 95% UCL) are calculated during each statistical evaluation based on the most recent four (4) data points. Recorded SSL are highlighted in yellow in Table 7.

SSL are summarized as:

MW-7 – 1,2-dichloropropane, cis-1,2-dichloroethane, TCE

MW-8 - cis-1,2-dichloroethane, vinyl chloride

MW-12 – vinyl chloride

A series of eleven (11) gas vents were installed as the corrective action at select locations. The vents are located between the waste mass and the impacted monitoring well. Based on completion of the remedy near each impacted well, MW-7, MW-8, and MW-12 are designated as the Corrective Action Monitoring Wells.

CORRECTIVE MEASURES MONITORING RESULTS

The evaluation of the Corrective Action Monitoring Wells MW-7, MW-8, and MW-12 is based on the Upper Confidence Limit (95% UCL), see Table 8. The 95% UCL values for the identified VOC currently remain above the GWPS (highlighted in green in Table 8) and MW-7, MW-8, and MW-12 should remain in Corrective Action Monitoring. It is noted that the reported 95% UCL for cis-1,2-dichloroethene at MW-8 dropped below the GWPS in October, 2023, but a trend has not yet been established.

Additional Corrective Action Monitoring includes the on-going quarterly monitoring of Gas Vents GV1-GV-11 for the % Lower Explosive Limits (LEL).

Table 10 and Table 11 are included to summarize the on-going Corrective Action Monitoring Plan (CAMP) results.

Section 4.0 Leachate Collection System Performance Evaluation

General – The construction of the majority of this site predates the requirement to include leachate collection below the waste mass. The leachate control system (LCS) that does exist is installed under the adjoining boundary of Cell 10-S and Cell 11-S (Figure 3). The limited LCS consists of a gravity collection pipe that underlie the fills and two (2) leachate extraction pumps that operate during months when freezing does not occur. The collected leachate is conveyed to

a leachate holding lagoon located near the southwest corner of the site. Leachate recirculation does not occur at the site.

Leachate Line Cleaning - The leachate lines were cleaned in May 2022. Line cleaning is tentatively scheduled again in 2025.

Leachate Head Measurements - Four (4) leachate piezometers exist at the site to monitor leachate head. One (1) leachate piezometer (LW-1) is located in the north (N) series Cells, while three (3) leachate piezometers (LW-2, LW-3, and LW-4) are located in the south (S) series Cells.

The leachate head monitoring is monthly in LW-1 through LW-4 and is summarized in Table 12. No remarkable changes are noted in leachate head over time. Filling and capping of the majority of the site (Cell 1-N through Cell 4-N, and Cell 1-S through Cell 8-S) is complete.

Extraction pumps are also located in leachate piezometer LW-3 and LW-4. The pumps are removed from the extraction wells during the cold weather months to avoid freezing issues with the pumping and conveyance equipment.

It is recognized that the average thickness of leachate on the unlined areas consistently exceeds 12 inches (typically 1-10 feet). It is also recognized that the landfill construction predominately predates the requirement for leachate collection or for the requirement of limited leachate head on the liner. Further all cells are closed except active cells Cell 10-S and Cell 11-S.

The recent Cells (Cell 10-S and Cell 11-S) have been designed in accordance with requirements of IAC 567, Chapter 114.26(11)“a”(1) through (7). A leachate head monitoring point was proposed in the March 31, 2022 Letter (Doc 102694) when the lowest sections of Cell 10-S and Cell 11-S are constructed in the future.

Based on the highly static nature of monthly leachate levels in all wells (LW-1 through LW-4) over the past decade (2013 to 2023), we request that the frequency of leachate head measurement be reduced from monthly to quarterly at this site. A quarterly frequency of leachate level measurements in the closed areas of the site would correspond to the frequency of gas monitoring, would provide sufficient information in the closed cells (LW-1 to LW-4) to gauge changing conditions, and would conform to the frequency required of most closed sites in the State.

Leachate Transport to Treatment – In 2023 there was no leachate hauled from the Plymouth County Landfill. A Treatment Agreement is in place with the Le Mars WWTP. Additionally, less than 300 gallons of leachate was extracted from LW-3 and LW-4 in 2023 (conveyed to the leachate lagoon).

Leachate Analyses - Chemical analysis of the leachate was not performed in 2023 as it was not required by the Treatment Agreement with Le Mars (only required in years when leachate is hauled).

Section 5.0 Gas Monitoring

Explosive gas monitoring was performed quarterly through November 27, 2023, per IAC 567-114.26(15). Figure 4 illustrates the approved gas monitoring system points including the corrective action Gas Vents. The results are summarized in Table 13.

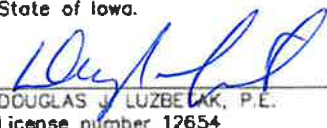
Review of Table 13 indicates that a monitoring result of 100% LEL was recorded in MW-13 on October 11, 2023. MW-13 is located near the waste boundary (Figure 4) and approximately 100 feet and 200 feet from the south and west property boundaries, respectively. The property boundaries represent the point of compliance in accordance with IAC 567, Chapter 114.26(15)"a"(2). A verification reading was obtained from MW-13 on November 27, 2023, in order to determine whether the October 11, 2023, reading was accurate and/or persistent. The result obtained on November 27, 2023 was reported as 0% LEL. Based on the results of the verification sample, explosive gases are interpreted to be within applicable limits at approved gas monitoring locations. Explosive gas monitoring will be completed in the spring with particular attention given to the results at MW-13, as it is recognized that the detection of gas at MW-13 may, or may not be, intermittent.

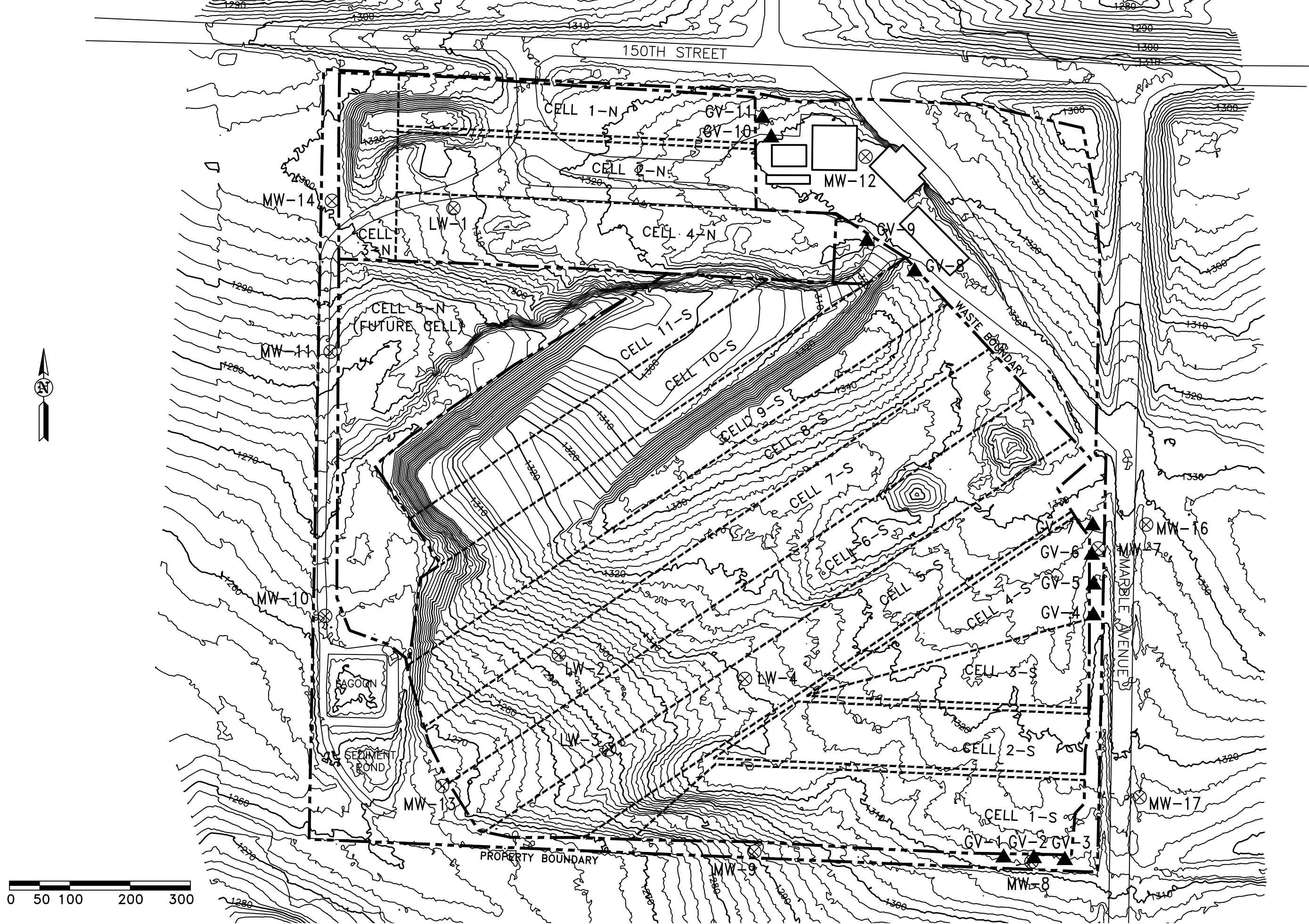
The results of gas monitoring (%LEL) in the eleven (11) corrective action gas vents is also summarized in Table 13. Gas monitoring at the Gas Vents indicates the landfill gas is passively vented as intended. The venting of landfill gas is anticipated to improve water quality at MW-7, MW-8, and MW-12 over time and is anticipated to restrict subsurface migration from the site.

Section 6.0 Recommendations

- a. Continue to perform sampling in accordance with Special Provision 4 of the Revised Permit. Supplemental analyses beyond the VOC analyses are not recommended.
- b. Samples collected in the Spring of 2024 should include analyses for TOX and Phenol in accordance with IAC 114.26(4)"f".
- c. Continue to evaluate water quality in the Annual Water Quality Report, due November 30 of each year.
- d. Continue to perform semi-annual water level measurements in the Spring & Fall of each year and reevaluate the data in the Annual Water Quality Report due November 30 of each year.
- e. The Flow Rate Evaluation should be performed again in 2025.
- f. The leachate collection line should be cleaned on a 3-year frequency per rule (next cleaning event in 2025).
- g. Continue to perform *monthly* leachate level measurements until authorization is received that changes the frequency of leachate level measurements to *quarterly* at LW-1, LW-2, LW-3, and LW-4. Continue to re-evaluate leachate levels in the Annual Groundwater Quality Report/Leachate Control System Performance Evaluation due November 30 of each year.

- h. Continue to perform quarterly explosive gas monitoring and report the results in the Annual Groundwater Quality Report. Report the results of gas monitoring at MW-13 to HLW Engineering upon completion in the first quarterly monitoring episode in 2024.

	I hereby certify that this engineering document was prepared by me or under my direct personal supervision and that I am a duly licensed Professional Engineer under the laws of the State of Iowa.
	 11/24/23 DOUGLAS J. LUZBETAK, P.E. DATE License number 12654
	My license renewal date is December 31, 2024.
	Pages or sheets covered by this seal: <u>All except Appendices</u>





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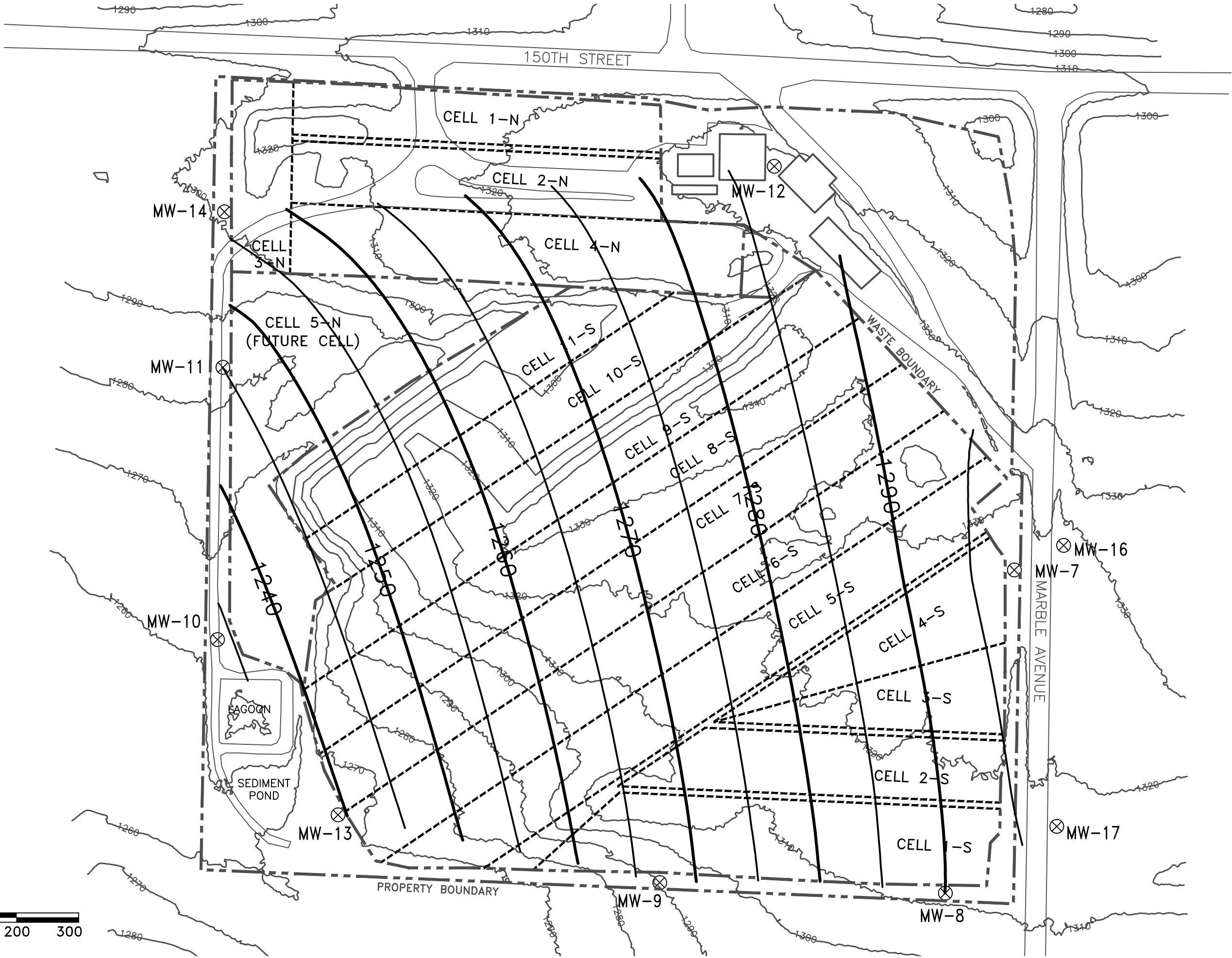
SITE PLAN

PLYMOUTH COUNTY SANITARY LANDFILL
LE MARS, IOWA

FIGURE: 1

REVISION	NO.	DATE
DRAWN	PROJECT NO. 6052	DATE 11-7-23
DRA		

WATER ELEVATION OCTOBER 11, 2023	
WELL	ELEV.
MW-7	1298.19
MW-8	1290.02
MW-9	1267.03
MW-10	1233.46
MW-11	1245.02
MW-12	1287.60
MW-13	1239.17
MW-14	1256.71
MW-16	1298.32
MW-17	1297.19



GROUNDWATER CONTOURS
PLYMOUTH COUNTY SANITARY LANDFILL
LE MARSA, IOWA

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FIGURE: 2		NO.	DATE
REVISION	DRAWN	PROJECT NO.	DATE
	DRA	6052	11-7-23

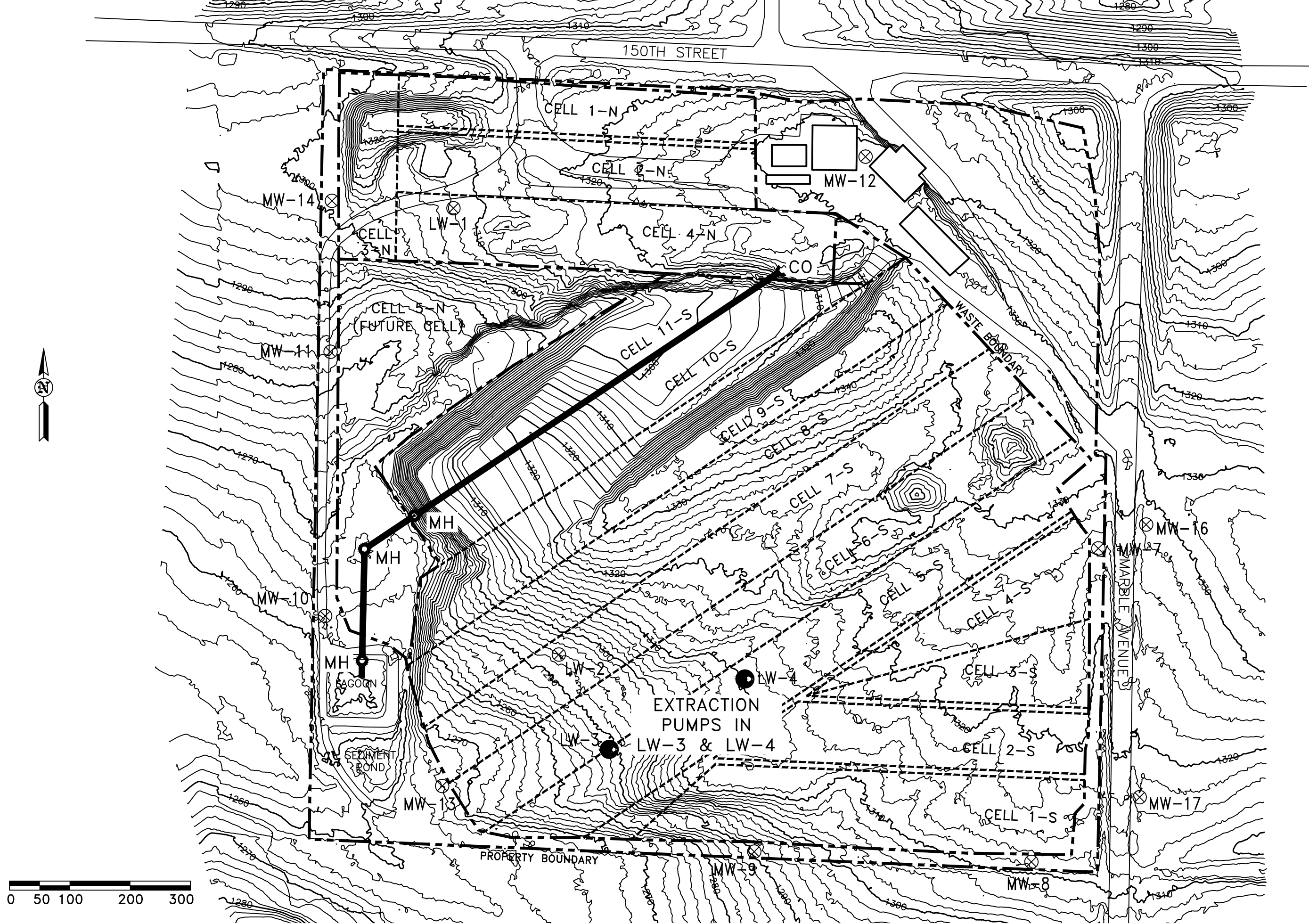
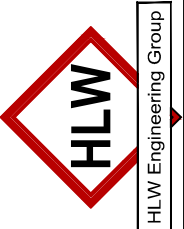


FIGURE: 3		NO.	DATE
REVISION	DRAWN	PROJECT NO.	DATE
	DRA	6052	11-7-23

LEACHATE COLLECTION SYSTEM PLAN
 PLYMOUTH COUNTY SANITARY LANDFILL
 LE MARS, IOWA

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LOCATION
1 EQUIPMENT BUILDING
2 TRANSFER STATION
3 STORAGE/RCC
4 OFFICE BUILDING
5 SCALE
MW-7
MW-8
MW-9
MW-10
MW-11
MW-12
MW-13
MW-14
MW-16
MW-17
GAS VENT GV-1
GAS VENT GV-2
GAS VENT GV-3
GAS VENT GV-4
GAS VENT GV-5
GAS VENT GV-6
GAS VENT GV-7
GAS VENT GV-8
GAS VENT GV-9
GAS VENT GV-10
GAS VENT GV-11

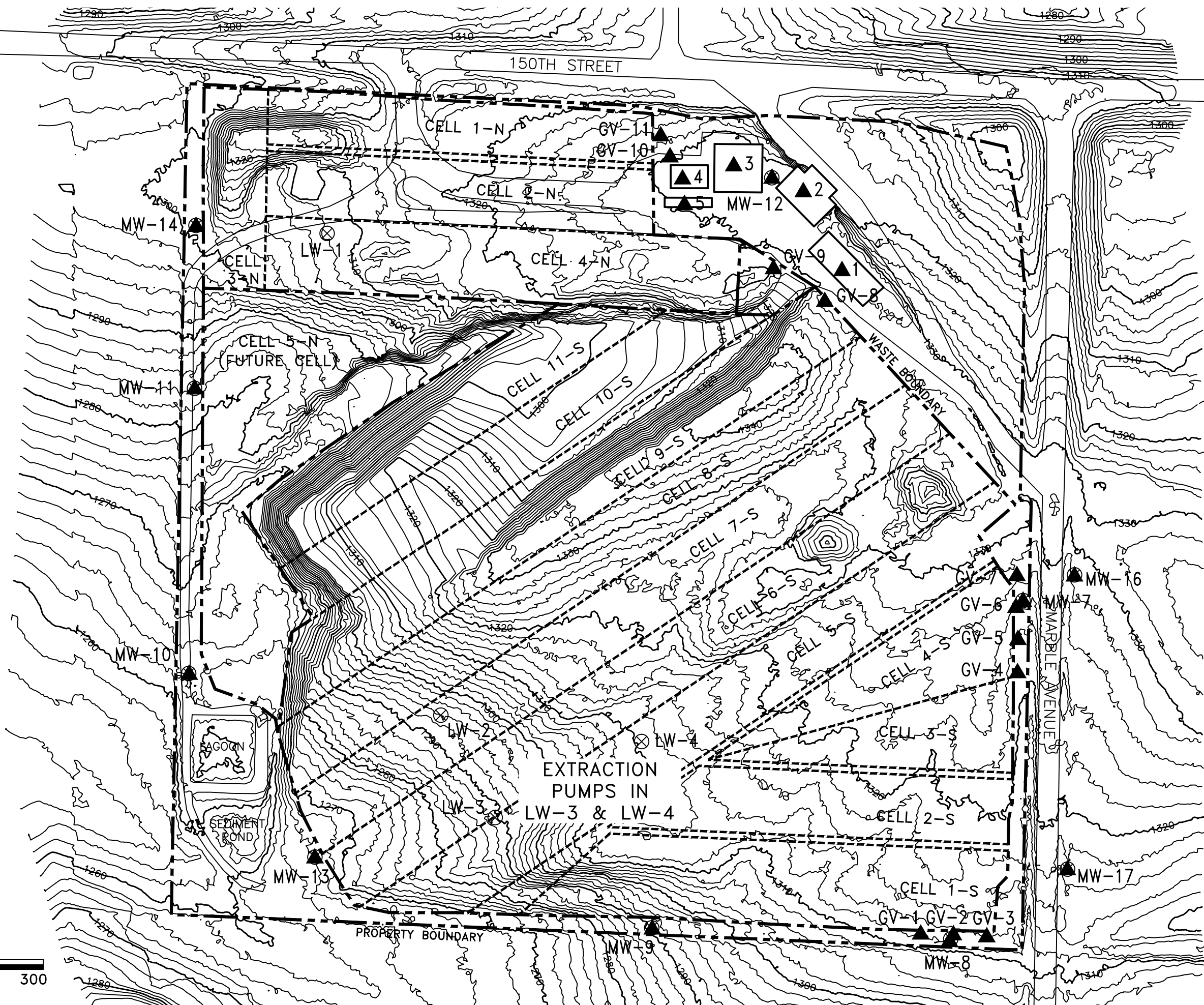


FIGURE: 4

GAS MONITORING SYSTEM PLAN

PLYMOUTH COUNTY SANITARY LANDFILL

LE MARS, IOWA

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REVISION	NO.	DATE
DRAWN	PROJECT NO.	DATE
DRA	6052	11-7-23

Table 1 – Monitoring Program Summary

Table 1
Monitoring Program Summary
Annual Water Quality Report
Plymouth County Sanitary Landfill
Permit No. 75-SDP-01-74P

2023

Monitoring Well	Formation	Current Monitoring Program	Change for next sampling event	Historic - Constituents w/ SSI	Spring - Constituents w/ SSI	Fall - Constituents w/ SSI	Historic - Constituents w/ SSL	Spring - Constituents w/ SSL	Fall - Constituents w/ SSL	Total # of Samples in each monitoring program since January 1, 2018		
										Detection	Assessment	Corrective Action
MW-17	Glacial Till	Background	No Change	None	None	None	None	None	None	12	0	0
MW-8	Glacial Till	Routine	No Change	1,2-dichloropropane, benzene, cis-1,2-dichloroethene,trichloroethene, vinyl chloride, chloride, specific conductance, TOX	1,2-dichloropropane, cis-1,2-dichloroethene,trichloroethene, vinyl chloride, chloride, specific conductance, TOX	cis-1,2-dichloroethene, vinyl chloride, chloride, specific conductance	cis-1,2-dichloroethene, vinyl chloride	cis-1,2-dichloroethene, vinyl chloride	cis-1,2-dichloroethene, vinyl chloride	0	0	12
MW-9	Glacial Till	Routine	No Change	cis-1,2-dichloroethene, COD, chloride, iron, TOX	Dry	Dry	None	None	None	8	0	0
MW-10	Weathered Shale	Routine	No Change	cis-1,2-dichloroethene, COD, chloride,specific conductance, TOX	COD, chloride,specific conductance, TOX	COD, chloride,specific conductance	None	None	None	11	0	0
MW-11	Fine Sand/Glacial Till	Routine	No Change	chloride, specific conductance	chloride, specific conductance	chloride, specific conductance	None	None	None	12	0	0
MW-12	Medium Sand/Glacial Till	Routine	No Change	benzene, cis-1,2-dichloroethene,trichloroethene, vinyl chloride, chloride, iron, specific conductance, TOX	benzene, cis-1,2-dichloroethene, vinyl chloride, chloride, iron, specific conductance, TOX	benzene, cis-1,2-dichloroethene, vinyl chloride, chloride, iron, specific conductance	vinyl chloride	vinyl chloride	vinyl chloride	0	0	12
MW-13	Glacial Till/Weathered Shale	Routine	No Change	COD, chloride, iron, specific conductance, TOX	COD, chloride, iron, specific conductance, TOX	chloride, iron,	None	None	None	12	0	0
MW-14	Glacial Till	Routine	No Change	1,2-dichloropropane, benzene, cis-1,2-dichloroethene, trichloroethene, COD, chloride, specific conductance, TOX	cis-1,2-dichloroethene, COD, chloride, specific conductance, TOX	cis-1,2-dichloroethene, COD, chloride, specific conductance	None	None	None	11	0	0
MW-16	Glacial Till	Routine	No Change	COD, chloride, specific conductance	specific conductance	COD, chloride, specific conductance	None	None	None	12	0	0
MW-7	Glacial Till	Supplemental	No Change	1,2-dichloroethane, 1,2-dichloropropane, benzene, cis-1,2-dichloroethene, tetrachloroethene, trichloroethene, vinyl chloride	1,2-dichloropropane, benzene, cis-1,2-dichloroethene, tetrachloroethene, trichloroethene, vinyl chloride	1,2-dichloroethane, 1,2-dichloropropane, benzene, cis-1,2-dichloroethene, tetrachloroethene, trichloroethene, vinyl chloride	1,2-dichloropropane, cis-1,2-dichloroethene, trichloroethene	1,2-dichloropropane, cis-1,2-dichloroethene, trichloroethene	1,2-dichloropropane, cis-1,2-dichloroethene, trichloroethene	0	0	12

Table 2 – Monitoring Program Implementation Schedule

Table 2
Monitoring Program Implementation Schedule
Annual Water Quality Report
Plymouth County Sanitary Landfill
Permit No. 75-SDP-01-74P

2023

Monitoring Well	Recent Sampling Dates and Constituents	Upcoming Sampling Dates and Constituents	
		March, 2024	September, 2024
MW-17	See Table 9	IAC 567-114.26(4) "e" + "f" + VOC	IAC 567-114.26(4) "e" + VOC
MW-8	See Table 9	IAC 567-114.26(4) "e" + "f" + VOC	IAC 567-114.26(4) "e" + VOC
MW-9	See Table 9	IAC 567-114.26(4) "e" + "f"	IAC 567-114.26(4) "e"
MW-10	See Table 9	IAC 567-114.26(4) "e" + "f" + VOC	IAC 567-114.26(4) "e" + VOC
MW-11	See Table 9	IAC 567-114.26(4) "e" + "f"	IAC 567-114.26(4) "e"
MW-12	See Table 9	IAC 567-114.26(4) "e" + "f" + VOC	IAC 567-114.26(4) "e" + VOC
MW-13	See Table 9	IAC 567-114.26(4) "e" + "f"	IAC 567-114.26(4) "e"
MW-14	See Table 9	IAC 567-114.26(4) "e" + "f" + VOC	IAC 567-114.26(4) "e" + VOC
MW-16	See Table 9	IAC 567-114.26(4) "e" + "f" + VOC	IAC 567-114.26(4) "e" + VOC
MW-7	See Table 9	VOC	VOC

VOC = benzene, cis-1,2-dichloroethene, 1,2-dichloropropane, methyl chloride, PCE, TCE, vinyl chloride.

Table 3 – Monitoring Well Maintenance Performance Reevaluation Schedule

Table 3
Monitoring Well Maintenance and Performance Revaluation Schedule
Annual Water Quality Report
Plymouth County Sanitary Landfill
Permit No. 75-SDP-01-74P

Compliance with:	Monitoring Calendar Years									
	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
567 IAC 114.21(2)"a" high and low water levels (biennial)	X		X		P		P		P	
567 IAC 114.21(2)"a" well location assessment and screen exposure (biennial)	X		X		P		P		P	
567 IAC 114.21(2)"b" changes in the hydrologic setting and flow paths (biennial)	X		X		P		P		P	
567 IAC 114.21(2)"c" well depths (annual)	X	X	X	X	P	P	P	P	P	P
567 IAC 114.21(2)"d" well permeability rates - variance for well recharge evaluations (biennial)		X		X		P		P		P

X = completed

P = Planned

N/A = Not Applicable

Table 4 – Monitoring Well Maintenance Performance Reevaluation Summary

Table 4

Monitoring Well Maintenance and Performance Summary

Annual Water Quality Report

Plymouth County Sanitary Landfill

Permit No. 75-SDP-01-74P

Well	Top of casing	Top of Screen	Total Depth		Date of Measurements		Maximum Depth
					5/3/2023	10/11/2023	Discrepancy (ft)
MW-17	1319.09	1301.07	30	Groundwater Level (ft)	20.6	21.9	-1.9
				Groundwater Elevation (Ft MSL)	1298.49	1297.19	
				Measured Well Depth (ft)	31.9	31.9	
				Submerged (+) or Exposed screen (-)	-2.58	-3.88	
MW-8	1314.12	1296.7	27.4	Groundwater Level (ft)	23.7	24.1	-0.4
				Groundwater Elevation (Ft MSL)	1290.42	1290.02	
				Measured Well Depth (ft)	27.8	27.8	
				Submerged (+) or Exposed screen (-)	-6.28	-6.68	
MW-9	1291.83	1277.01	24.7	Groundwater Level (ft)	24.2	24.8	-0.6
				Groundwater Elevation (Ft MSL)	1267.63	1267.03	
				Measured Well Depth (ft)	25.3	25.3	
				Submerged (+) or Exposed screen (-)	-9.38	-9.98	
MW-10	1264.66	1242	32.7	Groundwater Level (ft)	29.7	31.2	0.1
				Groundwater Elevation (Ft MSL)	1234.96	1233.46	
				Measured Well Depth (ft)	32.6	32.6	
				Submerged (+) or Exposed screen (-)	-7.04	-8.54	
MW-11	1285.62	1258	37.6	Groundwater Level (ft)	32.2	31.6	-1.5
				Groundwater Elevation (Ft MSL)	1253.42	1254.02	
				Measured Well Depth (ft)	39.1	39.1	
				Submerged (+) or Exposed screen (-)	-4.58	-3.98	
MW-12	1333.2	1290.3	52.9	Groundwater Level (ft)	45.6	45.6	-0.7
				Groundwater Elevation (Ft MSL)	1287.6	1287.6	
				Measured Well Depth (ft)	53.6	53.6	
				Submerged (+) or Exposed screen (-)	-2.7	-2.7	
MW-13	1266.67	1248.8	34	Groundwater Level (ft)	25.9	27.5	-2.5
				Groundwater Elevation (Ft MSL)	1240.77	1239.17	
				Measured Well Depth (ft)	36.5	36.5	
				Submerged (+) or Exposed screen (-)	-8.03	-9.63	
MW-14	1302.41	1267.4	47.5	Groundwater Level (ft)	47.4	45.7	-3.4
				Groundwater Elevation (Ft MSL)	1255.01	1256.71	
				Measured Well Depth (ft)	50.9	50.9	
				Submerged (+) or Exposed screen (-)	-12.39	-10.69	
MW-16	1330.02	1309	33	Groundwater Level (ft)	29	31.7	-4.4
				Groundwater Elevation (Ft MSL)	1301.02	1298.32	
				Measured Well Depth (ft)	37.4	37.4	
				Submerged (+) or Exposed screen (-)	-7.98	-10.68	
MW-7	1325.79	1303.4	32.4	Groundwater Level (ft)	25.3	27.6	-0.5
				Groundwater Elevation (Ft MSL)	1300.49	1298.19	
				Measured Well Depth (ft)	32.9	32.9	
				Submerged (+) or Exposed screen (-)	-2.91	-5.21	

Table 4A – Water Elevation Summary 2017 to Present

Table 4A
Water Elevation Data
Plymouth County Sanitary Landfill
75-SDP-1-74P

Well/TOC	MW-17 1319.09				MW-8 1314.12				MW-9 1291.83				MW-10 1264.66			
	Water Depth	Water Elevation	Top of Screen (TOS) Elevation	above(+)/below(-) TOS	Water Depth	Water Elevation	Top of Screen (TOS) Elevation	above(+)/below(-) TOS	Water Depth	Water Elevation	Top of Screen (TOS) Elevation	above(+)/below(-) TOS	Water Depth	Water Elevation	Top of Screen (TOS) Elevation	above(+)/below(-) TOS
04/04/17	17.57	1301.52	1301.07	0.45	19.23	1294.89	1296.70	-1.81	23.57	1268.26	1277.01	-8.75	27.92	1236.74	1242.00	-5.26
10/10/17	19.30	1299.79	1301.07	-1.28	21.41	1292.71	1296.70	-3.99	21.65	1270.18	1277.01	-6.83	28.20	1236.46	1242.00	-5.54
04/11/18	18.69	1300.40	1301.07	-0.67	21.50	1292.62	1296.70	-4.08	23.00	1268.83	1277.01	-8.18	28.11	1236.55	1242.00	-5.45
10/30/18	14.40	1304.69	1301.07	3.62	16.39	1297.73	1296.70	1.03	16.62	1275.21	1277.01	-1.80	23.92	1240.74	1242.00	-1.26
04/01/19	17.24	1301.85	1301.07	0.78	18.29	1295.83	1296.70	-0.87	21.00	1270.83	1277.01	-6.18	26.35	1238.31	1242.00	-3.69
10/08/19	17.47	1301.62	1301.07	0.55	19.54	1294.58	1296.70	-2.12	20.12	1271.71	1277.01	-5.30	26.90	1237.76	1242.00	-4.24
04/20/20	15.40	1303.69	1301.07	2.62	18.50	1295.62	1296.70	-1.08	18.00	1273.83	1277.01	-3.18	27.20	1237.46	1242.00	-4.54
10/20/20	21.00	1298.09	1301.07	-2.98	18.40	1295.72	1296.70	-0.98	24.00	1267.83	1277.01	-9.18	30.00	1234.66	1242.00	-7.34
04/26/21	20.90	1298.19	1301.07	-2.88	22.50	1291.62	1296.70	-5.08	24.30	1267.53	1277.01	-9.48	30.10	1234.56	1242.00	-7.44
08/16/21	22.00	1297.09	1301.07	-3.98	22.90	1291.22	1296.70	-5.48	24.50	1267.33	1277.01	-9.68	30.60	1234.06	1242.00	-7.94
06/01/22	23.30	1295.79	1301.07	-5.28	24.00	1290.12	1296.70	-6.58	25.30	1266.53	1277.01	-10.48	31.30	1233.36	1242.00	-8.64
10/03/22	23.80	1295.29	1301.07	-5.78	24.60	1289.52	1296.70	-7.18	25.30	1266.53	1277.01	-10.48	32.60	1232.06	1242.00	-9.94
05/03/23	20.60	1298.49	1301.07	-2.58	23.70	1290.42	1296.70	-6.28	24.20	1267.63	1277.01	-9.38	29.70	1234.96	1242.00	-7.04
10/11/23	21.90	1297.19	1301.07	-3.88	24.10	1290.02	1296.70	-6.68	24.80	1267.03	1277.01	-9.98	31.20	1233.46	1242.00	-8.54
minimum	14.40	1295.29		-5.78	16.39	1289.52		-7.18	16.62	1266.53		-10.48	23.92	1232.06		-9.94
maximum	23.80	1304.69		3.62	24.60	1297.73		1.03	25.30	1275.21		-1.80	32.60	1240.74		-1.26
average				-1.52				-3.66				-7.78				-6.20

Exposed Screens

Submerged Screens

Table 4A
Water Elevation Data
Plymouth County Sanitary Landfill
75-SDP-1-74P

Well/TOC	MW-11 1285.62				MW-12 1333.2				MW-13 1266.67				MW-14 1302.41			
	Water Depth	Water Elevation	Top of Screen (TOS) Elevation	above(+)/below(-) TOS	Water Depth	Water Elevation	Top of Screen (TOS) Elevation	above(+)/below(-) TOS	Water Depth	Water Elevation	Top of Screen (TOS) Elevation	above(+)/below(-) TOS	Water Depth	Water Elevation	Top of Screen (TOS) Elevation	above(+)/below(-) TOS
04/04/17	26.12	1259.50	1258.00	1.50	44.28	1288.92	1290.30	-1.38	22.82	1243.85	1248.80	-4.95	36.27	1266.14	1267.40	-1.26
10/10/17	27.51	1258.11	1258.00	0.11	44.93	1288.27	1290.30	-2.03	25.65	1241.02	1248.80	-7.78	35.45	1266.96	1267.40	-0.44
04/11/18	28.16	1257.46	1258.00	-0.54	45.04	1288.16	1290.30	-2.14	24.34	1242.33	1248.80	-6.47	38.42	1263.99	1267.40	-3.41
10/30/18	21.73	1263.89	1258.00	5.89	44.00	1289.20	1290.30	-1.10	21.12	1245.55	1248.80	-3.25	29.63	1272.78	1267.40	5.38
04/01/19	24.59	1261.03	1258.00	3.03	44.54	1288.66	1290.30	-1.64	23.00	1243.67	1248.80	-5.13	33.71	1268.70	1267.40	1.30
10/08/19	24.00	1261.62	1258.00	3.62	44.22	1288.98	1290.30	-1.32	21.80	1244.87	1248.80	-3.93	33.70	1268.71	1267.40	1.31
04/20/20	24.80	1260.82	1258.00	2.82	45.10	1288.10	1290.30	-2.20	22.40	1244.27	1248.80	-4.53	35.00	1267.41	1267.40	0.01
10/20/20	28.60	1257.02	1258.00	-0.98	45.30	1287.90	1290.30	-2.40	26.50	1240.17	1248.80	-8.63	38.00	1264.41	1267.40	-2.99
04/26/21	30.20	1255.42	1258.00	-2.58	45.80	1287.40	1290.30	-2.90	26.20	1240.47	1248.80	-8.33	42.70	1259.71	1267.40	-7.69
08/16/21	31.30	1254.32	1258.00	-3.68	45.50	1287.70	1290.30	-2.60	28.90	1237.77	1248.80	-11.03	44.20	1258.21	1267.40	-9.19
06/01/22	32.90	1252.72	1258.00	-5.28	45.90	1287.30	1290.30	-3.00	27.50	1239.17	1248.80	-9.63	47.60	1254.81	1267.40	-12.59
10/03/22	33.10	1252.52	1258.00	-5.48	46.20	1287.00	1290.30	-3.30	27.60	1239.07	1248.80	-9.73	50.90	1251.51	1267.40	-15.89
05/03/23	32.20	1253.42	1258.00	-4.58	45.60	1287.60	1290.30	-2.70	25.90	1240.77	1248.80	-8.03	47.40	1255.01	1267.40	-12.39
10/11/23	31.60	1254.02	1258.00	-3.98	45.60	1287.60	1290.30	-2.70	27.50	1239.17	1248.80	-9.63	45.70	1256.71	1267.40	-10.69
minimum	21.73	1252.52		-5.48	44.00	1287.00		-3.30	21.12	1237.77		-11.03	29.63	1251.51		-15.89
maximum	33.10	1263.89		5.89	46.20	1289.20		-1.10	28.90	1245.55		-3.25	50.90	1272.78		5.38
average				-0.72				-2.24				-7.22				-4.90

Well/TOC	MW-16 1330.02				MW-7 1325.79			
Date	Water Depth	Water Elevation	Top of Screen (TOS) Elevation	above(+)/below(-) TOS	Water Depth	Water Elevation	Top of Screen (TOS) Elevation	above(+)/below(-) TOS
04/04/17	27.57	1302.45	1309.00	-6.55	23.67	1302.12	1303.40	-1.28
10/10/17	24.31	1305.71	1309.00	-3.29	21.40	1304.39	1303.40	0.99
04/11/18	28.13	1301.89	1309.00	-7.11	24.10	1301.69	1303.40	-1.71
10/30/18	20.54	1309.48	1309.00	0.48	17.91	1307.88	1303.40	4.48
04/01/19	26.53	1303.49	1309.00	-5.51	22.49	1303.30	1303.40	-0.10
10/08/19	25.12	1304.90	1309.00	-4.10	21.30	1304.49	1303.40	1.09
04/20/20	26.50	1303.52	1309.00	-5.48	22.30	1303.49	1303.40	0.09
10/20/20	30.80	1299.22	1309.00	-9.78	26.40	1299.39	1303.40	-4.01
04/26/21	29.20	1300.82	1309.00	-8.18	25.30	1300.49	1303.40	-2.91
08/16/21	31.00	1299.02	1309.00	-9.98	27.00	1298.79	1303.40	-4.61
06/01/22	33.20	1296.82	1309.00	-12.18	29.00	1296.79	1303.40	-6.61
10/03/22	33.50	1296.52	1309.00	-12.48	29.20	1296.59	1303.40	-6.81
05/03/23	29.00	1301.02	1309.00	-7.98	25.30	1300.49	1303.40	-2.91
10/11/23	31.70	1298.32	1309.00	-10.68	27.60	1298.19	1303.40	-5.21
minimum	20.54	1296.52		-12.48	17.91	1296.59		-6.81
maximum	33.50	1309.48		0.48	29.20	1307.88		4.48
average				-7.34				-2.11

Table 4B – Water Elevation Summary Prior to 2017

TABLE 4B
Plymouth County Landfill
Terracon Project No. 08167143
Groundwater Elevation Measurements

Well ID	TOC Elevation	Screened Interval Elevation	Date	Depth to Water Measurement	Groundwater Elevation	Water Table Evaluation
MW-7	1325.79	1303.4-1293.4	01/06/11	23.63	1302.16	Within Screen
			02/28/11	22.29	1303.50	Above Screen
			03/21/11	23.40	1302.39	Within Screen
			04/07/11	23.70	1302.09	Within Screen
			05/31/11	22.01	1303.78	Above Screen
			06/27/11	18.94	1306.85	Above Screen
			07/11	18.41	1307.38	Above Screen
			08/11	20.82	1304.97	Above Screen
			09/20/11	21.91	1303.88	Above Screen
			10/27/11	23.79	1302.00	Within Screen
			11/14/11	24.48	1301.31	Within Screen
			01/10/12	26.10	1299.69	Within Screen
			02/17/12	27.01	1298.78	Within Screen
			03/27/12	26.62	1299.17	Within Screen
			04/23/12	27.17	1298.62	Within Screen
			05/03/12	27.25	1298.54	Within Screen
			06/28/12	27.11	1298.68	Within Screen
			07/30/12	27.58	1298.21	Within Screen
			08/28/12	27.84	1297.95	Within Screen
			09/19/12	28.02	1297.77	Within Screen
			10/23/12	28.06	1297.73	Within Screen
			11/20/12	28.82	1296.97	Within Screen
			12/19/12	28.95	1296.84	Within Screen
			01/17/13	29.22	1296.57	Within Screen
			02/27/13	29.41	1296.38	Within Screen
			03/09/13	29.36	1296.43	Within Screen
			04/16/13	27.99	1297.80	Within Screen
			05/23/13	25.67	1300.12	Within Screen
			06/18/13	23.18	1302.61	Within Screen
			07/23/13	24.65	1301.14	Within Screen
			08/28/13	25.01	1300.78	Within Screen
			09/19/13	26.22	1299.57	Within Screen
			10/28/13	26.46	1299.33	Within Screen
			11/27/13	27.25	1298.54	Within Screen
			12/26/13	27.93	1297.86	Within Screen
			1/29/14	28.36	1297.43	Within Screen
			2/27/14	28.82	1296.97	Within Screen
			3/18/14	28.98	1296.81	Within Screen
			4/25/14	29.34	1296.45	Within Screen
			5/14/14	29.34	1296.45	Within Screen
			6/24/14	27.44	1298.35	Within Screen
			7/25/14	24.64	1301.15	Within Screen
			8/22/14	24.45	1301.34	Within Screen
			9/15/14	24.02	1301.77	Within Screen
			10/6/14	24.00	1301.79	Within Screen
			11/3/14	24.75	1301.04	Within Screen
			12/12/14	26.08	1299.71	Within Screen
			1/16/15	26.64	1299.15	Within Screen
			2/26/15	26.29	1299.50	Within Screen
			3/16/15	26.38	1299.41	Within Screen
			4/15/15	26.81	1298.98	Within Screen
			5/21/15	26.87	1298.92	Within Screen
			5/23/15	26.00	1299.79	Within Screen
			7/16/15	24.45	1301.34	Within Screen
			8/20/15	22.51	1303.28	Within Screen
			9/23/15	23.45	1302.34	Within Screen
			10/5/15	23.59	1302.20	Within Screen
			11/10/15	24.78	1301.01	Within Screen
			12/18/15	21.35	1304.44	Above Screen
			1/7/16	20.65	1305.14	Above Screen
			2/23/16	19.75	1306.04	Above Screen
			3/22/16	18.92	1306.87	Above Screen
			4/26/16	18.31	1307.48	Above Screen
			5/18/16	16.37	1309.42	Above Screen
			6/27/16	15.7	1310.09	Above Screen
			7/25/16	17.32	1308.47	Above Screen
			8/1/16	19.45	1306.34	Above Screen
			9/22/16	19.84	1305.95	Above Screen
			10/5/16	20.68	1305.11	Above Screen

TABLE 4B
Plymouth County Landfill
Terracon Project No. 08167143
Groundwater Elevation Measurements

Well ID	TOC Elevation	Screened Interval Elevation	Date	Depth to Water Measurement	Groundwater Elevation	Water Table Evaluation
MW-8	1314.12	1296.7-1286.7	01/06/11	18.56	1295.56	Within Screen
			02/28/11	17.11	1297.01	Above Screen
			03/21/11	17.24	1296.88	Above Screen
			04/07/11	17.69	1296.43	Within Screen
			05/31/11	16.51	1297.61	Above Screen
			06/27/11	14.15	1299.97	Above Screen
			07/11	15.34	1298.78	Above Screen
			08/11	18.00	1296.12	Within Screen
			09/20/11	18.82	1295.30	Within Screen
			10/27/11	19.62	1294.50	Within Screen
			11/14/11	20.00	1294.12	Within Screen
			01/10/12	21.13	1292.99	Within Screen
			02/17/12	21.59	1292.53	Within Screen
			03/27/12	21.68	1292.44	Within Screen
			04/23/12	21.87	1292.25	Within Screen
			05/03/12	21.90	1292.22	Within Screen
			06/28/12	22.13	1291.99	Within Screen
			07/30/12	22.51	1291.61	Within Screen
			08/28/12	22.93	1291.19	Within Screen
			09/19/12	23.24	1290.88	Within Screen
			10/23/12	23.60	1290.52	Within Screen
			11/20/12	23.81	1290.31	Within Screen
			12/19/12	23.96	1290.16	Within Screen
			01/17/13	24.16	1289.96	Within Screen
			02/27/13	24.31	1289.81	Within Screen
			03/09/13	24.36	1289.76	Within Screen
			04/16/13	24.15	1289.97	Within Screen
			05/23/13	22.87	1291.25	Within Screen
			06/18/13	20.86	1293.26	Within Screen
			07/23/13	19.54	1294.58	Within Screen
			08/28/13	19.91	1294.21	Within Screen
			09/19/13	20.35	1293.77	Within Screen
			10/28/13	20.81	1293.31	Within Screen
			11/27/13	21.23	1292.89	Within Screen
			12/26/13	21.57	1292.55	Within Screen
			1/29/14	21.9	1292.22	Within Screen
			2/27/14	22.27	1291.85	Within Screen
			3/18/14	22.71	1291.41	Within Screen
			4/25/14	22.81	1291.31	Within Screen
			5/14/14	22.56	1291.56	Within Screen
			6/24/14	22.38	1291.74	Within Screen
			7/25/14	20.81	1293.31	Within Screen
			8/22/14	20.64	1293.48	Within Screen
			9/15/14	20.87	1293.25	Within Screen
			10/6/14	20.82	1293.30	Within Screen
			11/3/14	20.82	1293.30	Within Screen
			12/12/14	20.97	1293.15	Within Screen
			1/16/15	21.17	1292.95	Within Screen
			2/26/15	21.11	1293.01	Within Screen
			3/16/15	20.97	1293.15	Within Screen
			4/15/15	21.16	1292.96	Within Screen
			5/21/15	21.14	1292.98	Within Screen
			5/23/15	21	1293.12	Within Screen
			7/16/15	21.32	1292.80	Within Screen
			8/20/15	21.67	1292.45	Within Screen
			9/23/15	20.85	1293.27	Within Screen
			10/5/15	20.65	1293.47	Within Screen
			11/10/15	20.44	1293.68	Within Screen
			12/18/15	19.75	1294.37	Within Screen
			1/7/16	18.82	1295.30	Within Screen
			2/23/16	17.89	1296.23	Within Screen
			3/22/16	15.63	1298.49	Above Screen
			4/26/16	14.83	1299.29	Above Screen
			5/18/16	13.53	1300.59	Above Screen
			6/27/16	14.37	1299.75	Above Screen
			7/25/16	16.04	1298.08	Above Screen
			8/1/16	17.22	1296.90	Above Screen
			9/22/16	17.54	1296.58	Within Screen
			10/5/16	17.64	1296.48	Within Screen

TABLE 4B
Plymouth County Landfill
Terracon Project No. 08167143
Groundwater Elevation Measurements

Well ID	TOC Elevation	Screened Interval Elevation	Date	Depth to Water Measurement	Groundwater Elevation	Water Table Evaluation
MW-9	1291.83	1277.1-1267.1	01/06/11	22.68	1269.15	Within Screen
			02/28/11	20.41	1271.42	Within Screen
			03/21/11	20.77	1271.06	Within Screen
			04/07/11	20.55	1271.28	Within Screen
			05/31/11	15.48	1276.35	Within Screen
			06/27/11	14.01	1277.82	Above Screen
			07/11	16.75	1275.08	Within Screen
			08/11	21.81	1270.02	Within Screen
			09/20/11	22.65	1269.18	Within Screen
			10/27/11	23.46	1268.37	Within Screen
			11/14/11	23.69	1268.14	Within Screen
			01/10/12	24.34	1267.49	Within Screen
			02/17/12	24.85	1266.98	Below Screen
			03/27/12	25.15	1266.68	Below Screen
			04/23/12	25.20	1266.63	Below Screen
			05/03/12	Dry	NC	Below Screen
			06/28/12	Dry	NC	Below Screen
			07/30/12	Dry	NC	Below Screen
			08/28/12	Dry	NC	Below Screen
			09/19/12	Dry	NC	Below Screen
			10/23/12	Dry	NC	Below Screen
			11/20/12	Dry	NC	Below Screen
			12/19/12	Dry	NC	Below Screen
			01/17/13	Dry	NC	Below Screen
			02/27/13	Dry	NC	Below Screen
			03/09/13	Dry	NC	Below Screen
			04/16/13	Dry	NC	Below Screen
			05/23/13	22.65	1269.18	Within Screen
			06/18/13	16.96	1274.87	Within Screen
			07/23/13	21.44	1270.39	Within Screen
			08/28/13	23.15	1268.68	Within Screen
			09/19/13	23.79	1268.04	Within Screen
			10/28/13	24.21	1267.62	Within Screen
			11/27/13	24.69	1267.14	Within Screen
			12/26/13	25.1	1266.73	Below Screen
			1/29/14	Dry	NC	Below Screen
			2/27/14	Dry	NC	Below Screen
			3/18/14	Dry	NC	Below Screen
			4/25/14	Dry	NC	Below Screen
			5/14/14	Dry	NC	Below Screen
			6/24/14	24.3	1267.53	Within Screen
			7/25/14	23.48	1268.35	Within Screen
			8/22/14	23.88	1267.95	Within Screen
			9/15/14	24.02	1267.81	Within Screen
			10/6/14	23.98	1267.85	Within Screen
			11/3/14	24.11	1267.72	Within Screen
			12/12/14	20.97	1270.86	Within Screen
			1/16/15	25.35	1266.48	Below Screen
			2/26/15	Dry	NC	Below Screen
			3/16/15	Dry	NC	Below Screen
			4/15/15	Dry	NC	Below Screen
			5/21/15	Dry	NC	Below Screen
			5/23/15	Dry	NC	Below Screen
			7/16/15	24.6	1267.23	Within Screen
			8/20/15	24.2	1267.63	Within Screen
			9/23/15	23.64	1268.19	Within Screen
			10/5/15	23.65	1268.18	Within Screen
			11/10/15	23.72	1268.11	Within Screen
			12/18/15	16.45	1275.38	Within Screen
			1/7/16	17.25	1274.58	Within Screen
			2/23/16	14.62	1277.21	Above Screen
			3/22/16	14.10	1277.73	Above Screen
			4/26/16	13.57	1278.26	Above Screen
			5/18/16	13.97	1277.86	Above Screen
			6/27/16	16.65	1275.18	Within Screen
			7/25/16	20.38	1271.45	Within Screen
			8/1/16	22.17	1269.66	Within Screen
			9/22/16	22.65	1269.18	Within Screen
			10/5/16	23.57	1268.26	Within Screen

TABLE 4B
Plymouth County Landfill
Terracon Project No. 08167143
Groundwater Elevation Measurements

Well ID	TOC Elevation	Screened Interval Elevation	Date	Depth to Water Measurement	Groundwater Elevation	Water Table Evaluation
MW-10	1264.66	1242.0-1232.0	01/06/11	27.36	1237.30	Within Screen
			02/28/11	26.70	1237.96	Within Screen
			03/21/11	27.19	1237.47	Within Screen
			04/07/11	27.58	1237.08	Within Screen
			05/31/11	25.60	1239.06	Within Screen
			06/27/11	22.92	1241.74	Within Screen
			07/11	23.52	1241.14	Within Screen
			08/11	26.23	1238.43	Within Screen
			09/20/11	27.12	1237.54	Within Screen
			10/27/11	27.94	1236.72	Within Screen
			11/14/11	28.17	1236.49	Within Screen
			01/10/12	28.89	1235.77	Within Screen
			02/17/12	29.25	1235.41	Within Screen
			03/27/12	29.09	1235.57	Within Screen
			04/23/12	29.38	1235.28	Within Screen
			05/03/12	29.41	1235.25	Within Screen
			06/28/12	29.14	1235.52	Within Screen
			07/30/12	29.64	1235.02	Within Screen
			08/28/12	30.15	1234.51	Within Screen
			09/19/12	30.45	1234.21	Within Screen
			10/23/12	30.67	1233.99	Within Screen
			11/20/12	30.83	1233.83	Within Screen
			12/19/12	30.99	1233.67	Within Screen
			01/17/13	31.12	1233.54	Within Screen
			02/27/13	31.33	1233.33	Within Screen
			03/09/13	31.33	1233.33	Within Screen
			04/16/13	30.76	1233.90	Within Screen
			05/23/13	30.34	1234.32	Within Screen
			06/18/13	28.38	1236.28	Within Screen
			07/23/13	28.88	1235.78	Within Screen
			08/28/13	29.53	1235.13	Within Screen
			09/19/13	29.67	1234.99	Within Screen
			10/28/13	30.58	1234.08	Within Screen
			11/27/13	30.82	1233.84	Within Screen
			12/26/13	31.05	1233.61	Within Screen
			1/29/14	31.20	1233.46	Within Screen
			2/27/14	31.36	1233.30	Within Screen
			3/18/14	31.33	1233.33	Within Screen
			4/25/14	31.41	1233.25	Within Screen
			5/14/14	31.48	1233.18	Within Screen
			6/24/14	29.41	1235.25	Within Screen
			7/25/14	28.64	1236.02	Within Screen
			8/22/14	28.82	1235.84	Within Screen
			9/15/14	28.91	1235.75	Within Screen
			10/6/14	28.87	1235.79	Within Screen
			11/3/14	29.08	1235.58	Within Screen
			12/12/14	29.30	1235.36	Within Screen
			1/16/15	29.48	1235.18	Within Screen
			2/26/15	29.31	1235.35	Within Screen
			3/16/15	29.42	1235.24	Within Screen
			4/15/15	29.55	1235.11	Within Screen
			5/21/15	29.62	1235.04	Within Screen
			5/23/15	29.20	1235.46	Within Screen
			7/16/15	28.85	1235.81	Within Screen
			8/20/15	28.21	1236.45	Within Screen
			9/23/15	28.64	1236.02	Within Screen
			10/5/15	28.58	1236.08	Within Screen
			11/10/15	28.79	1235.87	Within Screen
			12/18/15	26.47	1238.19	Within Screen
			1/7/16	26.11	1238.55	Within Screen
			2/23/16	25.00	1239.66	Within Screen
			3/22/16	24.34	1240.32	Within Screen
			4/26/16	23.24	1241.42	Within Screen
			5/18/16	22.32	1242.34	Above Screen
			6/27/16	22.80	1241.86	Within Screen
			7/25/16	24.45	1240.21	Within Screen
			8/1/16	26.35	1238.31	Within Screen
			9/22/16	26.91	1237.75	Within Screen
			10/5/16	27.17	1237.49	Within Screen

TABLE 4B
Plymouth County Landfill
Terracon Project No. 08167143
Groundwater Elevation Measurements

Well ID	TOC Elevation	Screened Interval Elevation	Date	Depth to Water Measurement	Groundwater Elevation	Water Table Evaluation
MW-11	1285.62	1258.0-1248.0	01/06/11	24.83	1260.79	Above Screen
			02/28/11	24.40	1261.22	Above Screen
			03/21/11	24.61	1261.01	Above Screen
			04/07/11	23.18	1262.44	Above Screen
			05/31/11	22.51	1263.11	Above Screen
			06/27/11	19.85	1265.77	Above Screen
			07/11	19.66	1265.96	Above Screen
			08/11	21.92	1263.70	Above Screen
			09/20/11	22.93	1262.69	Above Screen
			10/27/11	24.61	1261.01	Above Screen
			11/14/11	25.30	1260.32	Above Screen
			01/10/12	27.26	1258.36	Above Screen
			02/17/12	28.35	1257.27	Within Screen
			03/27/12	29.00	1256.62	Within Screen
			04/23/12	29.34	1256.28	Within Screen
			05/03/12	29.43	1256.19	Within Screen
			06/28/12	29.32	1256.30	Within Screen
			07/30/12	29.84	1255.78	Within Screen
			08/28/12	30.34	1255.28	Within Screen
			09/19/12	30.74	1254.88	Within Screen
			10/23/12	31.17	1254.45	Within Screen
			11/20/12	31.46	1254.16	Within Screen
			12/19/12	31.71	1253.91	Within Screen
			01/17/13	31.92	1253.70	Within Screen
			02/27/13	32.12	1253.50	Within Screen
			03/09/13	32.18	1253.44	Within Screen
			04/16/13	32.27	1253.35	Within Screen
			05/23/13	30.53	1255.09	Within Screen
			06/18/13	27.43	1258.19	Above Screen
			07/23/13	27.35	1258.27	Above Screen
			08/28/13	28.27	1257.35	Within Screen
			09/19/13	29.87	1255.75	Within Screen
			10/28/13	29.76	1255.86	Within Screen
			11/27/13	30.31	1255.31	Within Screen
			12/26/13	30.7	1254.92	Within Screen
			1/29/14	31.05	1254.57	Within Screen
			2/27/14	31.42	1254.20	Within Screen
			3/18/14	31.59	1254.03	Within Screen
			4/25/14	31.82	1253.80	Within Screen
			5/14/14	31.88	1253.74	Within Screen
			6/24/14	30.93	1254.69	Within Screen
			7/25/14	27.8	1257.82	Within Screen
			8/22/14	27.57	1258.05	Above Screen
			9/15/14	26.77	1258.85	Above Screen
			10/6/14	26.69	1258.93	Above Screen
			11/3/14	27.38	1258.24	Above Screen
			12/12/14	28.58	1257.04	Within Screen
			1/16/15	29.13	1256.49	Within Screen
			2/26/15	28.97	1256.65	Within Screen
			3/16/15	29.33	1256.29	Within Screen
			4/15/15	29.36	1256.26	Within Screen
			5/21/15	29.11	1256.51	Within Screen
			5/23/15	28.61	1257.01	Within Screen
			7/16/15	28.72	1256.90	Within Screen
			8/20/15	28.8	1256.82	Within Screen
			9/23/15	27.77	1257.85	Within Screen
			10/5/15	27.38	1258.24	Above Screen
			11/10/15	27.93	1257.69	Within Screen
			12/18/15	25.26	1260.36	Above Screen
			1/7/16	24.00	1261.62	Above Screen
			2/23/16	23.22	1262.40	Above Screen
			3/22/16	21.53	1264.09	Above Screen
			4/26/16	19.62	1266.00	Above Screen
			5/18/16	18.13	1267.49	Above Screen
			6/27/16	18.28	1267.34	Above Screen
			7/25/16	19.92	1265.70	Above Screen
			8/1/16	22.16	1263.46	Above Screen
			9/22/16	22.59	1263.03	Above Screen
			10/5/16	23.57	1262.05	Above Screen

TABLE 4B
Plymouth County Landfill
Terracon Project No. 08167143
Groundwater Elevation Measurements

Well ID	TOC Elevation	Screened Interval Elevation	Date	Depth to Water Measurement	Groundwater Elevation	Water Table Evaluation
MW-12	1333.20	1290.3-1280.3	01/06/11	44.04	1289.16	Within Screen
			02/28/11	44.27	1288.93	Within Screen
			03/21/11	44.22	1288.98	Within Screen
			04/07/11	44.37	1288.83	Within Screen
			05/31/11	44.29	1288.91	Within Screen
			06/27/11	44.32	1288.88	Within Screen
			07/11	44.31	1288.89	Within Screen
			08/11	43.33	1289.87	Within Screen
			09/20/11	43.51	1289.69	Within Screen
			10/27/11	43.91	1289.29	Within Screen
			11/14/11	44.06	1289.14	Within Screen
			01/10/12	44.49	1288.71	Within Screen
			02/17/12	44.72	1288.48	Within Screen
			03/27/12	44.90	1288.30	Within Screen
			04/23/12	45.05	1288.15	Within Screen
			05/03/12	45.05	1288.15	Within Screen
			06/28/12	45.22	1287.98	Within Screen
			07/30/12	45.23	1287.97	Within Screen
			08/28/12	45.33	1287.87	Within Screen
			09/19/12	45.38	1287.82	Within Screen
			10/23/12	45.46	1287.74	Within Screen
			11/20/12	45.52	1287.68	Within Screen
			12/19/12	45.61	1287.59	Within Screen
			01/17/13	45.60	1287.60	Within Screen
			02/27/13	45.79	1287.41	Within Screen
			03/09/13	45.65	1287.55	Within Screen
			04/16/13	45.73	1287.47	Within Screen
			05/23/13	45.51	1287.69	Within Screen
			06/18/13	45.18	1288.02	Within Screen
			07/23/13	44.98	1288.22	Within Screen
			08/28/13	44.93	1288.27	Within Screen
			09/19/13	44.98	1288.22	Within Screen
			10/28/13	45.05	1288.15	Within Screen
			11/27/13	45.17	1288.03	Within Screen
			12/26/13	45.21	1287.99	Within Screen
			1/29/14	45.31	1287.89	Within Screen
			2/27/14	45.45	1287.75	Within Screen
			3/18/14	45.52	1287.68	Within Screen
			4/25/14	45.05	1288.15	Within Screen
			5/14/14	45.58	1287.62	Within Screen
			6/24/14	45.55	1287.65	Within Screen
			7/25/14	45.22	1287.98	Within Screen
			8/22/14	45.18	1288.02	Within Screen
			9/15/14	45.00	1288.20	Within Screen
			10/6/14	45.01	1288.19	Within Screen
			11/3/15	44.97	1288.23	Within Screen
			12/12/14	45.06	1288.14	Within Screen
			1/16/15	45.19	1288.01	Within Screen
			2/26/15	45.23	1287.97	Within Screen
			3/16/15	45.20	1288.00	Within Screen
			4/15/15	45.22	1287.98	Within Screen
			5/21/15	45.22	1287.98	Within Screen
			5/23/15	45.20	1288.00	Within Screen
			7/16/15	45.20	1288.00	Within Screen
			8/20/15	45.25	1287.95	Within Screen
			9/23/15	45.00	1288.20	Within Screen
			10/5/15	45.00	1288.20	Within Screen
			11/10/15	45.00	1288.20	Within Screen
			12/18/15	44.81	1288.39	Within Screen
			1/7/16	44.69	1288.51	Within Screen
			2/23/16	44.31	1288.89	Within Screen
			3/22/16	43.85	1289.35	Within Screen
			4/26/16	43.61	1289.59	Within Screen
			5/18/16	43.13	1290.07	Within Screen
			6/27/16	42.24	1290.96	Above Screen
			7/25/16	43.10	1290.10	Within Screen
			8/1/16	42.82	1290.38	Above Screen
			9/22/16	43.07	1290.13	Within Screen
			10/5/16	43.12	1290.08	Within Screen

TABLE 4B
Plymouth County Landfill
Terracon Project No. 08167143
Groundwater Elevation Measurements

Well ID	TOC Elevation	Screened Interval Elevation	Date	Depth to Water Measurement	Groundwater Elevation	Water Table Evaluation
MW-13	1266.67	1244.8-1229.8	01/06/11	22.70	1243.97	Within Screen
			02/28/11	21.53	1245.14	Above Screen
			03/21/11	21.69	1244.98	Above Screen
			04/07/11	21.80	1244.87	Above Screen
			05/31/11	20.15	1246.52	Above Screen
			06/27/11	18.94	1247.73	Above Screen
			07/11	19.91	1246.76	Above Screen
			08/11	23.62	1243.05	Within Screen
			09/20/11	24.40	1242.27	Within Screen
			10/27/11	25.04	1241.63	Within Screen
			11/14/11	22.27	1244.40	Within Screen
			01/10/12	25.61	1241.06	Within Screen
			02/17/12	26.27	1240.40	Within Screen
			03/27/12	25.37	1241.30	Within Screen
			04/23/12	25.80	1240.87	Within Screen
			05/03/12	25.87	1240.80	Within Screen
			06/28/12	25.95	1240.72	Within Screen
			07/30/12	26.83	1239.84	Within Screen
			08/28/12	27.44	1239.23	Within Screen
			09/19/12	27.79	1238.88	Within Screen
			10/23/12	28.07	1238.60	Within Screen
			11/20/12	28.23	1238.44	Within Screen
			12/19/12	28.42	1238.25	Within Screen
			01/17/13	28.61	1238.06	Within Screen
			02/27/13	28.72	1237.95	Within Screen
			03/09/13	28.75	1237.92	Within Screen
			04/16/13	27.21	1239.46	Within Screen
			05/23/13	27.11	1239.56	Within Screen
			06/18/13	23.84	1242.83	Within Screen
			07/23/13	26.43	1240.24	Within Screen
			08/28/13	26.51	1240.16	Within Screen
			09/19/13	27.01	1239.66	Within Screen
			10/28/13	27.63	1239.04	Within Screen
			11/27/13	28.07	1238.60	Within Screen
			12/26/13	28.28	1238.39	Within Screen
			1/29/14	28.51	1238.16	Within Screen
			2/27/14	28.65	1238.02	Within Screen
			3/18/14	28.39	1238.28	Within Screen
			4/25/14	28.38	1238.29	Within Screen
			5/14/14	28.72	1237.95	Within Screen
			6/24/14	24.89	1241.78	Within Screen
			7/25/14	26.27	1240.40	Within Screen
			8/22/14	26.63	1240.04	Within Screen
			9/15/14	26.08	1240.59	Within Screen
			10/6/14	25.71	1240.96	Within Screen
			11/3/15	26.07	1240.60	Within Screen
			12/12/14	26.48	1240.19	Within Screen
			1/16/15	26.46	1240.21	Within Screen
			2/26/15	26.00	1240.67	Within Screen
			3/16/15	26.31	1240.36	Within Screen
			4/15/15	25.92	1240.75	Within Screen
			5/21/15	25.9	1240.77	Within Screen
			5/23/15	24.67	1242.00	Within Screen
			7/16/15	23.86	1242.81	Within Screen
			8/20/15	23.3	1243.37	Within Screen
			9/23/15	25.58	1241.09	Within Screen
			10/5/15	25.26	1241.41	Within Screen
			11/10/15	25	1241.67	Within Screen
			12/18/15	18.93	1247.74	Above Screen
			1/7/16	20.91	1245.76	Above Screen
			2/23/16	17.49	1249.18	Above Screen
			3/22/16	16.31	1250.36	Above Screen
			4/26/16	15.68	1250.99	Above Screen
			5/18/16	17.52	1249.15	Above Screen
			6/27/16	19.55	1247.12	Above Screen
			7/25/16	22.13	1244.54	Within Screen
			8/1/16	23.86	1242.81	Within Screen
			9/22/16	23.71	1242.96	Within Screen
			10/5/16	24.43	1242.24	Within Screen

TABLE 4B
Plymouth County Landfill
Terracon Project No. 08167143
Groundwater Elevation Measurements

Well ID	TOC Elevation	Screened Interval Elevation	Date	Depth to Water Measurement	Groundwater Elevation	Water Table Evaluation
MW-14	1302.41	1267.4-1252.4	01/06/11	35.22	1267.19	Within Screen
			02/28/11	35.59	1266.82	Within Screen
			03/21/11	35.42	1266.99	Within Screen
			04/07/11	35.70	1266.71	Within Screen
			05/31/11	34.38	1268.03	Above Screen
			06/27/11	30.11	1272.30	Above Screen
			07/11	28.22	1274.19	Above Screen
			08/11	30.85	1271.56	Above Screen
			09/20/11	31.91	1270.50	Above Screen
			10/27/11	33.93	1268.48	Above Screen
			11/14/11	34.72	1267.69	Above Screen
			01/10/12	36.85	1265.56	Within Screen
			02/17/12	38.14	1264.27	Within Screen
			03/27/12	38.77	1263.64	Within Screen
			04/23/12	40.06	1262.35	Within Screen
			05/03/12	40.74	1261.67	Within Screen
			06/28/12	42.00	1260.41	Within Screen
			07/30/12	42.48	1259.93	Within Screen
			08/28/12	43.00	1259.41	Within Screen
			09/19/12	43.55	1258.86	Within Screen
			10/23/12	44.45	1257.96	Within Screen
			11/20/12	45.21	1257.20	Within Screen
			12/19/12	45.63	1256.78	Within Screen
			01/17/13	46.14	1256.27	Within Screen
			02/27/13	46.46	1255.95	Within Screen
			03/09/13	46.63	1255.78	Within Screen
			04/16/13	46.98	1255.43	Within Screen
			05/23/13	46.68	1255.73	Within Screen
			06/18/13	43.66	1258.75	Within Screen
			07/23/13	41.23	1261.18	Within Screen
			08/28/13	41.49	1260.92	Within Screen
			09/19/13	41.79	1260.62	Within Screen
			10/28/13	42.90	1259.51	Within Screen
			11/27/13	43.82	1258.59	Within Screen
			12/26/13	44.34	1258.07	Within Screen
			1/29/14	44.74	1257.67	Within Screen
			2/27/14	45.40	1257.01	Within Screen
			3/18/14	45.62	1256.79	Within Screen
			4/25/14	46.34	1256.07	Within Screen
			5/14/14	46.7	1255.71	Within Screen
			6/24/14	46.78	1255.63	Within Screen
			7/25/14	43.35	1259.06	Within Screen
			8/22/14	42.02	1260.39	Within Screen
			9/15/14	41.11	1261.30	Within Screen
			10/6/14	40.55	1261.86	Within Screen
			11/3/14	40.67	1261.74	Within Screen
			12/12/14	41.43	1260.98	Within Screen
			1/16/15	41.76	1260.65	Within Screen
			2/26/15	41.87	1260.54	Within Screen
			3/16/15	42.32	1260.09	Within Screen
			4/15/15	42.70	1259.71	Within Screen
			5/21/15	42.75	1259.66	Within Screen
			5/23/15	42.36	1260.05	Within Screen
			7/16/15	42.10	1260.31	Within Screen
			8/20/15	41.50	1260.91	Within Screen
			9/23/15	39.94	1262.47	Within Screen
			10/5/15	39.39	1263.02	Within Screen
			11/10/15	39.58	1262.83	Within Screen
			12/18/15	37.60	1264.81	Within Screen
			1/7/16	34.51	1267.90	Above Screen
			2/23/16	33.07	1269.34	Above Screen
			3/22/16	30.12	1272.29	Above Screen
			4/26/16	28.93	1273.48	Above Screen
			5/18/16	26.73	1275.68	Above Screen
			6/27/16	26.22	1276.19	Above Screen
			7/25/16	27.56	1274.85	Above Screen
			8/1/16	30.00	1272.41	Above Screen
			9/22/16	31.16	1271.25	Above Screen
			10/5/16	31.80	1270.61	Above Screen

TABLE 4B
Plymouth County Landfill
Terracon Project No. 08167143
Groundwater Elevation Measurements

Well ID	TOC Elevation	Screened Interval Elevation	Date	Depth to Water Measurement	Groundwater Elevation	Water Table Evaluation
MW-15	1322.16	1294.4-1279.4	01/06/11	33.70	1288.46	Within Screen
			02/28/11	33.40	1288.76	Within Screen
			03/21/11	33.40	1288.76	Within Screen
			04/07/11	33.40	1288.76	Within Screen
			05/31/11	33.25	1288.91	Within Screen
			06/27/11	32.93	1289.23	Within Screen
			07/11	32.31	1289.85	Within Screen
			08/11	32.53	1289.63	Within Screen
			09/20/11	32.82	1289.34	Within Screen
			10/27/11	33.11	1289.05	Within Screen
			11/14/11	33.25	1288.91	Within Screen
			01/10/12	33.58	1288.58	Within Screen
			02/17/12	33.81	1288.35	Within Screen
			03/27/12	33.98	1288.18	Within Screen
			04/23/12	34.00	1288.16	Within Screen
			05/03/12	34.05	1288.11	Within Screen
			06/28/12	34.12	1288.04	Within Screen
			07/30/12	34.15	1288.01	Within Screen
			08/28/12	34.18	1287.98	Within Screen
			09/19/12	34.28	1287.88	Within Screen
			10/23/12	34.29	1287.87	Within Screen
			11/20/12	34.25	1287.91	Within Screen
			12/19/12	34.39	1287.77	Within Screen
			01/17/13	34.42	1287.74	Within Screen
			02/27/13	34.49	1287.67	Within Screen
			03/09/13	34.52	1287.64	Within Screen
			04/16/13	34.54	1287.62	Within Screen
			05/23/13	33.88	1288.28	Within Screen
			06/18/13	33.45	1288.71	Within Screen
			07/23/13	33.68	1288.48	Within Screen
			08/28/13	33.77	1288.39	Within Screen
			09/19/13	33.02	1289.14	Within Screen
			10/28/13	33.88	1288.28	Within Screen
			11/27/13	34.06	1288.10	Within Screen
			12/26/13	34.11	1288.05	Within Screen
			1/29/14	34.21	1287.95	Within Screen
			2/27/14	34.33	1287.83	Within Screen
			3/18/14	34.38	1287.78	Within Screen
			4/25/14	34.29	1287.87	Within Screen
			5/14/14	34.35	1287.81	Within Screen
			6/24/14	34.22	1287.94	Within Screen
			7/25/14	33.68	1288.48	Within Screen
			8/22/14	33.56	1288.60	Within Screen
			9/15/14	33.93	1288.23	Within Screen
			10/6/14	33.67	1288.49	Within Screen
			11/3/14	33.76	1288.40	Within Screen
			12/12/14	33.85	1288.31	Within Screen
			1/16/15	34.05	1288.11	Within Screen
			2/26/15	31.75	1290.41	Within Screen
			3/16/15	33.63	1288.53	Within Screen
			4/15/15	33.07	1289.09	Within Screen
			5/21/15	33.76	1288.40	Within Screen
			5/23/15	33.67	1288.49	Within Screen
			7/16/15	33.51	1288.65	Within Screen
			8/20/15	33.43	1288.73	Within Screen
			9/23/15	33.57	1288.59	Within Screen
			10/5/15	33.49	1288.67	Within Screen
			11/10/15	33.77	1288.39	Within Screen
			12/18/15	33.55	1288.61	Within Screen
			1/7/16	33.49	1288.67	Within Screen
			2/23/16	33.2	1288.96	Within Screen
			3/22/16	32.14	1290.02	Within Screen
			4/26/16	30.95	1291.21	Within Screen
			5/18/16	31.22	1290.94	Within Screen
			6/27/16	31.12	1291.04	Within Screen
			7/25/16	30.86	1291.30	Within Screen
			8/1/16	31.39	1290.77	Within Screen
			9/22/16	30.95	1291.21	Within Screen
			10/5/16	32.22	1289.94	Within Screen

TABLE 4B
Plymouth County Landfill
Terracon Project No. 08167143
Groundwater Elevation Measurements

Well ID	TOC Elevation	Screened Interval Elevation	Date	Depth to Water Measurement	Groundwater Elevation	Water Table Evaluation
MW-16	1330.02	1309.0-1294.0	01/06/11	27.89	1302.13	Within Screen
			02/28/11	25.57	1304.45	Within Screen
			03/21/11	27.23	1302.79	Within Screen
			04/07/11	28.25	1301.77	Within Screen
			05/31/11	24.70	1305.32	Within Screen
			06/27/11	20.84	1309.18	Above Screen
			07/11	20.54	1309.48	Above Screen
			08/11	24.91	1305.11	Within Screen
			09/20/11	25.93	1304.09	Within Screen
			10/27/11	28.09	1301.93	Within Screen
			11/14/11	28.77	1301.25	Within Screen
			01/10/12	30.40	1299.62	Within Screen
			02/17/12	31.31	1298.71	Within Screen
			03/27/12	30.77	1299.25	Within Screen
			04/23/12	31.45	1298.57	Within Screen
			05/03/12	31.43	1298.59	Within Screen
			06/28/12	31.15	1298.87	Within Screen
			07/30/12	31.74	1298.28	Within Screen
			08/28/12	32.06	1297.96	Within Screen
			09/19/12	32.30	1297.72	Within Screen
			10/23/12	32.64	1297.38	Within Screen
			11/20/12	32.95	1297.07	Within Screen
			12/19/12	33.12	1296.90	Within Screen
			01/17/13	33.34	1296.68	Within Screen
			02/27/13	33.52	1296.50	Within Screen
			03/09/13	33.50	1296.52	Within Screen
			04/16/13	32.12	1297.90	Within Screen
			05/23/13	29.83	1300.19	Within Screen
			06/18/13	26.85	1303.17	Within Screen
			07/23/13	28.75	1301.27	Within Screen
			08/28/13	29.15	1300.87	Within Screen
			09/19/13	29.73	1300.29	Within Screen
			10/28/13	30.47	1299.55	Within Screen
			11/27/13	31.53	1298.49	Within Screen
			12/26/13	32.17	1297.85	Within Screen
			1/29/14	32.65	1297.37	Within Screen
			2/27/14	33.1	1296.92	Within Screen
			3/18/14	33.22	1296.80	Within Screen
			4/25/14	33.41	1296.61	Within Screen
			5/14/14	33.57	1296.45	Within Screen
			6/24/14	30.82	1299.20	Within Screen
			7/25/14	28	1302.02	Within Screen
			8/22/14	28.33	1301.69	Within Screen
			9/15/14	27.97	1302.05	Within Screen
			10/6/14	28.05	1301.97	Within Screen
			11/3/14	28.93	1301.09	Within Screen
			12/12/14	30.22	1299.80	Within Screen
			1/16/15	30.67	1299.35	Within Screen
			2/26/15	30.15	1299.87	Within Screen
			3/16/15	30.22	1299.80	Within Screen
			4/15/15	30.63	1299.39	Within Screen
			5/21/15	30.83	1299.19	Within Screen
			5/23/15	29.7	1300.32	Within Screen
			7/16/15	27.95	1302.07	Within Screen
			8/20/15	26	1304.02	Within Screen
			9/23/15	27.43	1302.59	Within Screen
			10/5/2015	27.5	1302.52	Within Screen
			11/10/15	28.78	1301.24	Within Screen
			12/18/15	24.22	1305.80	Within Screen
			1/7/16	23.33	1306.69	Within Screen
			2/23/16	22.84	1307.18	Within Screen
			3/22/16	21.78	1308.24	Within Screen
			4/26/16	21	1309.02	Above Screen
			5/18/16	18	1312.02	Above Screen
			6/27/16	18.1	1311.92	Above Screen
			7/25/16	20.68	1309.34	Above Screen
			8/1/16	23.55	1306.47	Within Screen
			9/22/16	23.96	1306.06	Within Screen
			10/5/16	24.81	1305.21	Within Screen

TABLE 4B
Plymouth County Landfill
Terracon Project No. 08167143
Groundwater Elevation Measurements

Well ID	TOC Elevation	Screened Interval Elevation	Date	Depth to Water Measurement	Groundwater Elevation	Water Table Evaluation
MW-17	1319.12	1301.1-1286.1	01/06/11	17.79	1301.33	Above Screen
			02/28/11	15.88	1303.24	Above Screen
			03/21/11	16.14	1302.98	Above Screen
			04/07/11	17.23	1301.89	Above Screen
			05/31/11	14.13	1304.99	Above Screen
			06/27/11	11.87	1307.25	Above Screen
			07/11	14.21	1304.91	Above Screen
			08/11	16.93	1302.19	Above Screen
			09/20/11	17.81	1301.31	Above Screen
			10/27/11	18.86	1300.26	Within Screen
			11/14/11	19.23	1299.89	Within Screen
			01/10/12	20.25	1298.87	Within Screen
			02/17/12	20.79	1298.33	Within Screen
			03/27/12	20.46	1298.66	Within Screen
			04/23/12	20.08	1299.04	Within Screen
			05/03/12	20.87	1298.25	Within Screen
			06/28/12	20.57	1298.55	Within Screen
			07/30/12	20.97	1298.15	Within Screen
			08/28/12	21.40	1297.72	Within Screen
			09/19/12	21.77	1297.35	Within Screen
			10/23/12	22.19	1296.93	Within Screen
			11/20/12	22.56	1296.56	Within Screen
			12/19/12	22.92	1296.20	Within Screen
			01/17/13	23.25	1295.87	Within Screen
			02/27/13	23.62	1295.50	Within Screen
			03/09/13	23.69	1295.43	Within Screen
			04/16/13	23.48	1295.64	Within Screen
			05/23/13	20.17	1298.95	Within Screen
			06/18/13	15.48	1303.64	Above Screen
			07/23/13	17.71	1301.41	Above Screen
			08/28/13	18.88	1300.24	Within Screen
			09/19/13	19.42	1299.70	Within Screen
			10/28/13	20.11	1299.01	Within Screen
			11/27/13	20.86	1298.26	Within Screen
			12/26/13	21.4	1297.72	Within Screen
			1/29/14	21.85	1297.27	Within Screen
			2/27/14	22.35	1296.77	Within Screen
			3/18/14	22.75	1296.37	Within Screen
			4/25/14	23.05	1296.07	Within Screen
			5/14/14	23.23	1295.89	Within Screen
			6/24/14	20.73	1298.39	Within Screen
			7/25/14	17.34	1301.78	Above Screen
			8/22/14	18.3	1300.82	Within Screen
			9/15/14	18.2	1300.92	Within Screen
			10/6/14	18.15	1300.97	Within Screen
			11/3/14	18.42	1300.70	Within Screen
			12/12/14	19.3	1299.82	Within Screen
			1/16/15	19.77	1299.35	Within Screen
			2/26/15	19.05	1300.07	Within Screen
			3/16/15	18.59	1300.53	Within Screen
			4/15/15	19.01	1300.11	Within Screen
			5/21/15	19.42	1299.70	Within Screen
			5/23/15	19.36	1299.76	Within Screen
			7/16/15	19.2	1299.92	Within Screen
			8/20/15	19.12	1300.00	Within Screen
			9/23/15	17.27	1301.85	Above Screen
			10/5/15	17.61	1301.51	Above Screen
			11/10/15	18.30	1300.82	Within Screen
			12/18/15	15.1	1304.02	Above Screen
			1/7/16	15.6	1303.52	Above Screen
			2/23/16	14.2	1304.92	Above Screen
			3/22/16	13.95	1305.17	Above Screen
			4/26/16	13.34	1305.78	Above Screen
			5/18/16	12.24	1306.88	Above Screen
			6/27/16	12.95	1306.17	Above Screen
			7/25/16	15.05	1304.07	Above Screen
			8/1/16	16.56	1302.56	Above Screen
			9/22/16	16.24	1302.88	Above Screen
			10/5/16	16.62	1302.50	Above Screen

Notes

- (1) Measurements are reported in feet.
- (2) TOC = Top of Casing
- (3) NC = Not Calculated

Table 4C – Flow Rate Evaluation

Table 4C
Flow Rate Assessment
Annual Water Quality Report
Plymouth County Sanitary Landfill
Permit No. 75-SDP-01-74P

Monitoring Well	Flow Rate August 2021 (L/min)	Flow Rate May 2023 (L/min)	Flow Rate May 2023 (L/min)
MW-17	7.50	5.68	7.57
MW-8	2.80	3.10	7.57
MW-9	NT	dry	dry
MW-10	3.10	1.72	1.89
MW-11	6.30	2.09	11.36
MW-12	0.40	3.03	6.06
MW-13	3.30	1.79	6.81
MW-14	1.80	0.95	3.79
MW-16	4.50	2.84	3.79
MW-7	4.30	6.31	7.57

NT = not tested

Table 5 – Background and GWPS Summary

Table 5
Background and GWPS Summary
Annual Water Quality Report
Plymouth County Sanitary Landfill
Permit No. 75-SDP-01-74P

Interwell Background Wells (MW-17)

Inorganics - Appendix I										
Constituent	Units	Model Type	Samples - N	Detections	Mean	SD	Prediction Limit	Confidence	GWPS	Source
Ammonia as N	mg/L	nonparametric	54	0			0.2000	0.99	30	SS
COD	mg/L	nonparametric	54	11			21.2000	0.99	--	SS
Chloride	mg/L	nonparametric	54	4			7.3000	0.99	--	SS
Iron, dissolved	µg/l	nonparametric	54	0			100.0000	0.99	--	SS
pH	SU	nonparametric	52	52			5.10-7.69	0.99	5-9	SS
Phenols	mg/L	nonparametric	25	0			0.0200	0.98	--	SS
Specific Conductance	umhos/cm	normal	51	51	688.7647	206.1353	1188.9857	0.99	--	SS
TOX	µg/l	nonparametric	25	1			11.4000	0.98	--	SS
VOC - Appendix I										
Constituent	Units	Model Type	Samples - N	Detections	Mean	SD	Prediction Limit	Confidence	GWPS	Source
All	µg/l	DQR	54	0	<1	<1	<1	<1	various	SS

= Prediction limit exceeds the GWPS. A Site-Specific GWPS is warranted

Table 6 – Summary of Current Year Exceedances (SSI)

Table 6
Summary of Well/Detected Constituent Pairs that Exceed the Background Standard
Annual Water Quality Report
Plymouth County Sanitary Landfill
Permit No. 75-SDP-01-74P

Well	System	Constituent	Date	Units	Result	Background Standard	GWPS
MW-7	Water Table	1,2-dichloroethane	10/11/2023	ug/L	1.29	1	5
MW-7	Water Table	1,2-dichloropropane	5/3/2023	ug/L	12.5	1.0	5
MW-7	Water Table	1,2-dichloropropane	10/11/2023	ug/L	12.9	1.0	5
MW-7	Water Table	benzene	5/3/2023	ug/L	0.716	0.5	5
MW-7	Water Table	benzene	10/11/2023	ug/L	0.878	0.5	5
MW-7	Water Table	cis-1,2-dichloroethene	5/3/2023	ug/L	174.0	1.0	70
MW-7	Water Table	cis-1,2-dichloroethene	10/11/2023	ug/L	203.0	1.0	70
MW-7	Water Table	PCE	5/3/2023	ug/L	2.67	1.0	5
MW-7	Water Table	PCE	10/11/2023	ug/L	1.75	1.0	5
MW-7	Water Table	TCE	5/3/2023	ug/L	7.5	1.0	5
MW-7	Water Table	TCE	10/11/2023	ug/L	9.4	1.0	5
MW-7	Water Table	vinyl chloride	5/3/2023	ug/L	3.11	1.0	2
MW-7	Water Table	vinyl chloride	10/11/2023	ug/L	4.28	1.0	2
MW-8	Water Table	1,2-dichloropropane	5/3/2023	ug/L	1.16	1.0	5
MW-8	Water Table	cis-1,2-dichloroethene	5/3/2023	ug/L	53.8	1.0	70
MW-8	Water Table	cis-1,2-dichloroethene	10/11/2023	ug/L	45.7	1.0	70
MW-8	Water Table	TCE	5/3/2023	ug/L	1.13	1.0	5
MW-8	Water Table	vinyl chloride	5/3/2023	ug/L	2.16	1.0	2
MW-8	Water Table	vinyl chloride	10/11/2023	ug/L	1.03	1.0	2
MW-8	Water Table	chloride	5/3/2023	mg/L	12.9	7.3	--
MW-8	Water Table	chloride	10/11/2023	mg/L	12.7	7.3	--
MW-8	Water Table	Spec. Cond.	5/3/2023	umhos/cm	1390	1188.9857	--
MW-8	Water Table	Spec. Cond.	10/11/2023	umhos/cm	1393.0	1188.9857	--
MW-8	Water Table	TOX	5/3/2023	ug/L	65.0	11.4	--
MW-10	Water Table	COD	5/3/2023	mg/L	26.6	21.2	--
MW-10	Water Table	COD	10/11/2023	mg/L	40.9	21.2	--
MW-10	Water Table	chloride	5/3/2023	mg/L	166.0	7.3	--
MW-10	Water Table	chloride	10/11/2023	mg/L	101.0	7.3	--
MW-10	Water Table	Spec. Cond.	5/3/2023	umhos/cm	1538.0	1189.0	--
MW-10	Water Table	Spec. Cond.	10/11/2023	umhos/cm	1394.0	1189.0	--
MW-10	Water Table	TOX	5/3/2023	ug/L	45.0	11.4	--
MW-11	Water Table	chloride	5/3/2023	mg/L	25.1	7.3	--
MW-11	Water Table	chloride	10/11/2023	mg/L	55.4	7.3	--
MW-11	Water Table	Spec. Cond.	5/3/2023	umhos/cm	1259.0	1189.0	--
MW-11	Water Table	Spec. Cond.	10/11/2023	umhos/cm	1300.0	1189.0	--
MW-12	Water Table	benzene	5/3/2023	ug/L	1.27	0.5	5
MW-12	Water Table	benzene	10/11/2023	ug/L	1.16	0.5	5
MW-12	Water Table	cis-1,2-dichloroethene	5/3/2023	ug/L	31.90	1.0	70
MW-12	Water Table	cis-1,2-dichloroethene	10/11/2023	ug/L	31.30	1.0	70
MW-12	Water Table	vinyl chloride	5/3/2023	ug/L	4.19	1.0	2
MW-12	Water Table	vinyl chloride	10/11/2023	ug/L	3.56	1.0	2
MW-12	Water Table	chloride	5/3/2023	mg/L	29.1	7.3	--
MW-12	Water Table	chloride	10/11/2023	mg/L	34.0	7.3	--
MW-12	Water Table	iron	5/3/2023	ug/L	10800.0	100.0	--
MW-12	Water Table	iron	10/11/2023	ug/L	7290.0	100.0	--
MW-12	Water Table	Spec. Cond.	5/3/2023	umhos/cm	1481.0	1189.0	--
MW-12	Water Table	Spec. Cond.	10/11/2023	umhos/cm	1422.0	1189.0	--
MW-12	Water Table	TOX	5/3/2023	ug/L	47.0	11.4	--
MW-13	Water Table	COD	5/3/2023	mg/L	23.5	21.2	--
MW-13	Water Table	chloride	5/3/2023	mg/L	73.0	7.3	--
MW-13	Water Table	chloride	10/11/2023	mg/L	33.1	7.3	--
MW-13	Water Table	iron	5/3/2023	ug/L	1200.0	100.0	--
MW-13	Water Table	iron	10/11/2023	ug/L	747.0	100.0	--
MW-13	Water Table	Spec. Cond.	5/3/2023	umhos/cm	1446.0	1189.0	--
MW-13	Water Table	TOX	5/3/2023	ug/L	77.0	11.4	--
MW-14	Water Table	cis-1,2-dichloroethene	5/3/2023	ug/L	36.6	1.0	70
MW-14	Water Table	cis-1,2-dichloroethene	10/11/2023	ug/L	41.6	1.0	70
MW-14	Water Table	COD	5/3/2023	mg/L	29.6	21.2	--
MW-14	Water Table	COD	10/11/2023	mg/L	42.6	21.2	--
MW-14	Water Table	chloride	5/3/2023	mg/L	58.8	7.3	--
MW-14	Water Table	chloride	10/11/2023	mg/L	109.0	7.3	--
MW-14	Water Table	Spec. Cond.	5/3/2023	umhos/cm	1501.0	1189.0	--
MW-14	Water Table	Spec. Cond.	10/11/2023	umhos/cm	1600.0	1189.0	--
MW-14	Water Table	TOX	5/3/2023	ug/L	93.0	11.4	--
MW-16	Water Table	COD	10/11/2023	mg/L	28.7	21.2	--
MW-16	Water Table	chloride	10/11/2023	mg/L	7.89	7.3	--
MW-16	Water Table	Spec. Cond.	5/3/2023	umhos/cm	1319.0	1189.0	--
MW-16	Water Table	Spec. Cond.	10/11/2023	umhos/cm	1432.0	1189.0	--

= exceeds background standard

= exceeds Site-Specific GWPS

Table 7 – Summary of Ongoing and Newly Identified SSI & SSL

Table 7

KEY:SSISSL LCL>GWPS

Summary of Ongoing & Newly Identified SSI

Annual Water Quality Report

Plymouth County Sanitary Landfill

Permit No. 75-SDP-01-74P

Note: The absence of shading indicates that the condition does not exist.

Monitoring Well	Compound	Sample Date	Each Result (ug/L)	Prediction Limit (ug/L)	95% LCL (ug/L)	GWPS Limit (ug/L)	SSI Initial Exceedance	Resamples Due	5th Background Sample
MW-7	1,2-dichloroethane	4/11/2018	<1.0	1.0	0.500	5	10/11/2023	NA	4/20/2020
MW-7	1,2-dichloroethane	10/30/2018	<1.0	1.0	0.500	5	10/11/2023	NA	4/20/2020
MW-7	1,2-dichloroethane	4/1/2019	<1.0	1.0	0.500	5	10/11/2023	NA	4/20/2020
MW-7	1,2-dichloroethane	10/8/2019	<1.0	1.0	0.500	5	10/11/2023	NA	4/20/2020
MW-7	1,2-dichloroethane	4/20/2020	<1.0	1.0	0.500	5	10/11/2023	NA	4/20/2020
MW-7	1,2-dichloroethane	10/20/2020	<1.0	1.0	0.500	5	10/11/2023	NA	4/20/2020
MW-7	1,2-dichloroethane	4/26/2021	<1.0	1.0	0.500	5	10/11/2023	NA	4/20/2020
MW-7	1,2-dichloroethane	8/16/2021	<1.0	1.0	0.500	5	10/11/2023	NA	4/20/2020
MW-7	1,2-dichloroethane	6/1/2022	<1.0	1.0	0.500	5	10/11/2023	NA	4/20/2020
MW-7	1,2-dichloroethane	10/3/2022	<1.0	1.0	0.500	5	10/11/2023	NA	4/20/2020
MW-7	1,2-dichloroethane	5/3/2023	<1.0	1.0	0.500	5	10/11/2023	NA	4/20/2020
MW-7	1,2-dichloroethane	10/11/2023	1.29	1.0	0.233	5	10/11/2023	NA	4/20/2020
MW-7	1,2-dichloropropane	4/11/2018	9.81	1.0	---	5	4/11/2018	NA	4/20/2020
MW-7	1,2-dichloropropane	10/30/2018	8.62	1.0	---	5	4/11/2018	NA	4/20/2020
MW-7	1,2-dichloropropane	4/1/2019	5.10	1.0	---	5	4/11/2018	NA	4/20/2020
MW-7	1,2-dichloropropane	10/8/2019	7.25	1.0	5.944	5	4/11/2018	NA	4/20/2020
MW-7	1,2-dichloropropane	4/20/2020	10.00	1.0	5.933	5	4/11/2018	NA	4/20/2020
MW-7	1,2-dichloropropane	10/20/2020	9.41	1.0	6.007	5	4/11/2018	NA	4/20/2020
MW-7	1,2-dichloropropane	4/26/2021	7.34	1.0	7.277	5	4/11/2018	NA	4/20/2020
MW-7	1,2-dichloropropane	8/16/2021	13.50	1.0	7.846	5	4/11/2018	NA	4/20/2020
MW-7	1,2-dichloropropane	6/1/2022	10.60	1.0	7.985	5	4/11/2018	NA	4/20/2020
MW-7	1,2-dichloropropane	10/3/2022	11.80	1.0	8.557	5	4/11/2018	NA	4/20/2020
MW-7	1,2-dichloropropane	5/3/2023	12.50	1.0	10.666	5	4/11/2018	NA	4/20/2020
MW-7	1,2-dichloropropane	10/11/2023	12.90	1.0	10.764	5	4/11/2018	NA	4/20/2020
MW-7	benzene	4/11/2018	0.958	0.5	---	5	4/11/2018	NA	4/20/2020
MW-7	benzene	10/30/2018	0.896	0.5	---	5	4/11/2018	NA	4/20/2020
MW-7	benzene	4/1/2019	0.580	0.5	---	5	4/11/2018	NA	4/20/2020
MW-7	benzene	10/8/2019	0.655	0.5	0.614	5	4/11/2018	NA	4/20/2020
MW-7	benzene	4/20/2020	0.813	0.5	0.611	5	4/11/2018	NA	4/20/2020
MW-7	benzene	10/20/2020	0.949	0.5	0.607	5	4/11/2018	NA	4/20/2020
MW-7	benzene	4/26/2021	<0.500	0.5	0.405	5	4/11/2018	NA	4/20/2020
MW-7	benzene	8/16/2021	0.783	0.5	0.432	5	4/11/2018	NA	4/20/2020
MW-7	benzene	6/1/2022	<0.500	0.5	0.244	5	4/11/2018	NA	4/20/2020
MW-7	benzene	10/3/2022	<0.500	0.5	0.152	5	4/11/2018	NA	4/20/2020
MW-7	benzene	5/3/2023	0.716	0.5	0.159	5	4/11/2018	NA	4/20/2020
MW-7	benzene	10/11/2023	0.878	0.5	0.144	5	4/11/2018	NA	4/20/2020
MW-7	cis-1,2-dichloroethylene	4/11/2018	152.00	1.0	---	70	4/11/2018	NA	4/20/2020
MW-7	cis-1,2-dichloroethylene	10/30/2018	113.00	1.0	---	70	4/11/2018	NA	4/20/2020
MW-7	cis-1,2-dichloroethylene	4/1/2019	66.30	1.0	---	70	4/11/2018	NA	4/20/2020
MW-7	cis-1,2-dichloroethylene	10/8/2019	117.00	1.0	81.602	70	4/11/2018	NA	4/20/2020
MW-7	cis-1,2-dichloroethylene	4/20/2020	193.00	1.0	76.913	70	4/11/2018	NA	4/20/2020
MW-7	cis-1,2-dichloroethylene	10/20/2020	198.00	1.0	88.615	70	4/11/2018	NA	4/20/2020
MW-7	cis-1,2-dichloroethylene	4/26/2021	112.00	1.0	114.423	70	4/11/2018	NA	4/20/2020
MW-7	cis-1,2-dichloroethylene	8/16/2021	240.00	1.0	139.423	70	4/11/2018	NA	4/20/2020
MW-7	cis-1,2-dichloroethylene	6/1/2022	147.00	1.0	125.504	70	4/11/2018	NA	4/20/2020
MW-7	cis-1,2-dichloroethylene	10/3/2022	168.00	1.0	119.967	70	4/11/2018	NA	4/20/2020
MW-7	cis-1,2-dichloroethylene	5/3/2023	174.00	1.0	134.960	70	4/11/2018	NA	4/20/2020
MW-7	cis-1,2-dichloroethylene	10/11/2023	203.00	1.0	145.818	70	4/11/2018	NA	4/20/2020
MW-7	PCE	4/11/2018	3.15	1.0	---	5	4/11/2018	NA	4/20/2020
MW-7	PCE	10/30/2018	2.12	1.0	---	5	4/11/2018	NA	4/20/2020
MW-7	PCE	4/1/2019	2.85	1.0	---	5	4/11/2018	NA	4/20/2020
MW-7	PCE	10/8/2019	1.23	1.0	1.596	5	4/11/2018	NA	4/20/2020
MW-7	PCE	4/20/2020	1.90	1.0	1.447	5	4/11/2018	NA	4/20/2020
MW-7	PCE	10/20/2020	<1.0	1.0	0.754	5	4/11/2018	NA	4/20/2020
MW-7	PCE	4/26/2021	1.66	1.0	0.790	5	4/11/2018	NA	4/20/2020
MW-7	PCE	8/16/2021	5.30	1.0	0.551	5	4/11/2018	NA	4/20/2020
MW-7	PCE	6/1/2022	2.89	1.0	0.808	5	4/11/2018	NA	4/20/2020
MW-7	PCE	10/3/2022	2.69	1.0	1.801	5	4/11/2018	NA	4/20/2020
MW-7	PCE	5/3/2023	2.67	1.0	1.883	5	4/11/2018	NA	4/20/2020
MW-7	PCE	10/11/2023	1.75	1.0	1.900	5	4/11/2018	NA	4/20/2020
MW-7	TCE	4/11/2018	11.10	1.0	---	5	4/11/2018	NA	4/20/2020
MW-7	TCE	10/30/2018	10.30	1.0	---	5	4/11/2018	NA	4/20/2020
MW-7	TCE	4/1/2019	5.36	1.0	---	5	4/11/2018	NA	4/20/2020
MW-7	TCE	10/8/2019	6.71	1.0	5.970	5	4/11/2018	NA	4/20/2020
MW-7	TCE	4/20/2020	20.40	1.0	4.804	5	4/11/2018	NA	4/20/2020
MW-7	TCE	10/20/2020	17.30	1.0	5.924	5	4/11/2018	NA	4/20/2020
MW-7	TCE	4/26/2021	10.00	1.0	8.117	5	4/11/2018	NA	4/20/2020
MW-7	TCE	8/16/2021	12.30	1.0	10.915	5	4/11/2018	NA	4/20/2020
MW-7	TCE	6/1/2022	7.03	1.0	7.902	5	4/11/2018	NA	4/20/2020
MW-7	TCE	10/3/2022	6.27	1.0	6.493	5	4/11/2018	NA	4/20/2020
MW-7	TCE	5/3/2023	7.50	1.0	5.063	5	4/11/2018	NA	4/20/2020
MW-7	TCE	10/11/2023	9.37	1.0	5.990	5	4/11/2018	NA	4/20/2020
MW-7	Vinyl Chloride	4/11/2018	1.87	1.0	---	2	4/11/2018	NA	4/20/2020
MW-7	Vinyl Chloride	10/30/2018	1.98	1.0	---	2	4/11/2018	NA	4/20/2020
MW-7	Vinyl Chloride	4/1/2019	<1.0	1.0	---	2	4/11/2018	NA	4/20/2020
MW-7	Vinyl Chloride	10/8/2019	1.45	1.0	0.867	2	4/11/2018	NA	4/20/2020
MW-7	Vinyl Chloride	4/20/2020	3.15	1.0	0.813	2	4/11/2018	NA	4/20/2020
MW-7	Vinyl Chloride	10/20/2020	3.48	1.0	0.922	2	4/11/2018	NA	4/20/2020
MW-7	Vinyl Chloride	4/26/2021	1.02	1.0	1.217	2	4/11/2018	NA	4/20/2020
MW-7	Vinyl Chloride	8/16/2021	2.84	1.0	1.670	2	4/11/2018	NA	4/20/2020
MW-7	Vinyl Chloride	6/1/2022	1.47	1.0	1.206	2	4/11/2018	NA	4/20/2020
MW-7	Vinyl Chloride	10/3/2022	1.38	1.0	0.986	2	4/11/2018	NA	4/20/2020
MW-7	Vinyl Chloride	5/3/2023	3.11	1.0	1.139	2	4/11/2018	NA	4/20/2020
MW-7	Vinyl Chloride	10/11/2023	4.28	1.0	0.919	2	4/11/2018	NA	4/20/2020
MW-7							4/11/2018	NA	4/20/2020

Bold Result = A value that exceeds the GWPS.

Bold GWPS = A Site Specific GWPS that is equal to the Prediction Limit. All other GWPS are IAC 567-137 Statewide Standards for Protected Groundwater.

Table 7

KEY:

SSI

SSL LCL>GWPS

Summary of Ongoing & Newly Identified SSI

Annual Water Quality Report

Plymouth County Sanitary Landfill

Permit No. 75-SDP-01-74P

Note: The absence of shading indicates that the condition does not exist.

Monitoring Well	Compound	Sample Date	Each Result (ug/L)	Prediction Limit (ug/L)	95% LCL (ug/L)	GWPS Limit (ug/L)	SSI Initial Exceedance	Resamples Due	5th Background Sample
MW-8	1,2-dichloropropane	4/11/2018	1.43	1.0	---	5	4/11/2018	NA	5/28/2020
MW-8	1,2-dichloropropane	10/30/2018	1.27	1.0	---	5	4/11/2018	NA	5/28/2020
MW-8	1,2-dichloropropane	4/1/2019	1.21	1.0	---	5	4/11/2018	NA	5/28/2020
MW-8	1,2-dichloropropane	10/8/2019	1.57	1.0	1.229	5	4/11/2018	NA	5/28/2020
MW-8	1,2-dichloropropane	5/28/2020	1.43	1.0	1.229	5	4/11/2018	NA	5/28/2020
MW-8	1,2-dichloropropane	10/20/2020	1.29	1.0	1.238	5	4/11/2018	NA	5/28/2020
MW-8	1,2-dichloropropane	4/26/2021	1.26	1.0	1.264	5	4/11/2018	NA	5/28/2020
MW-8	1,2-dichloropropane	8/16/2021	1.52	1.0	1.270	5	4/11/2018	NA	5/28/2020
MW-8	1,2-dichloropropane	6/1/2022	1.21	1.0	1.201	5	4/11/2018	NA	5/28/2020
MW-8	1,2-dichloropropane	10/3/2022	1.01	1.0	1.068	5	4/11/2018	NA	5/28/2020
MW-8	1,2-dichloropropane	5/3/2023	1.16	1.0	0.973	5	4/11/2018	NA	5/28/2020
MW-8	1,2-dichloropropane	10/11/2023	<1.0	1.0	0.588	5	4/11/2018	NA	5/28/2020
MW-8	benzene	4/11/2018	<0.5	0.5	---	5	4/1/2019	NA	4/20/2020
MW-8	benzene	10/30/2018	<0.5	0.5	---	5	4/1/2019	NA	4/20/2020
MW-8	benzene	4/1/2019	0.632	0.5	---	5	4/1/2019	NA	4/20/2020
MW-8	benzene	10/8/2019	0.858	0.5	0.237	5	4/1/2019	NA	4/20/2020
MW-8	benzene	4/20/2020	<0.5	0.5	0.237	5	4/1/2019	NA	4/20/2020
MW-8	benzene	10/20/2020	<0.5	0.5	0.237	5	4/1/2019	NA	4/20/2020
MW-8	benzene	4/26/2021	<0.5	0.5	0.139	5	4/1/2019	NA	4/20/2020
MW-8	benzene	8/16/2021	<0.5	0.5	0.250	5	4/1/2019	NA	4/20/2020
MW-8	benzene	6/1/2022	<0.5	0.5	0.250	5	4/1/2019	NA	4/20/2020
MW-8	benzene	10/3/2022	<0.5	0.5	0.250	5	4/1/2019	NA	4/20/2020
MW-8	benzene	5/3/2023	<0.5	0.5	0.250	5	4/1/2019	NA	4/20/2020
MW-8	benzene	10/11/2023	<0.5	0.5	0.250	5	4/1/2019	NA	4/20/2020
MW-8	cis-1,2-dichloroethylene	4/11/2018	80.80	1.0	---	70	4/11/2018	NA	4/20/2020
MW-8	cis-1,2-dichloroethylene	10/30/2018	82.60	1.0	---	70	4/11/2018	NA	4/20/2020
MW-8	cis-1,2-dichloroethylene	4/1/2019	75.70	1.0	---	70	4/11/2018	NA	4/20/2020
MW-8	cis-1,2-dichloroethylene	10/8/2019	85.80	1.0	77.567	70	4/11/2018	NA	4/20/2020
MW-8	cis-1,2-dichloroethylene	4/20/2020	1.21	1.0	26.427	70	4/11/2018	NA	4/20/2020
MW-8	cis-1,2-dichloroethylene	5/28/2020	57.10	1.0	22.261	70	4/11/2018	NA	4/20/2020
MW-8	cis-1,2-dichloroethylene	10/20/2020	76.40	1.0	22.324	70	4/11/2018	NA	4/20/2020
MW-8	cis-1,2-dichloroethylene	4/26/2021	61.20	1.0	20.477	70	4/11/2018	NA	4/20/2020
MW-8	cis-1,2-dichloroethylene	8/16/2021	85.90	1.0	58.558	70	4/11/2018	NA	4/20/2020
MW-8	cis-1,2-dichloroethylene	6/1/2022	59.40	1.0	59.753	70	4/11/2018	NA	4/20/2020
MW-8	cis-1,2-dichloroethylene	10/3/2022	50.20	1.0	50.956	70	4/11/2018	NA	4/20/2020
MW-8	cis-1,2-dichloroethylene	5/3/2023	53.80	1.0	43.309	70	4/11/2018	NA	4/20/2020
MW-8	cis-1,2-dichloroethylene	10/11/2023	45.70	1.0	45.462	70	4/11/2018	NA	4/20/2020
MW-8	TCE	4/11/2018	<1.0	1.0	---	5	5/3/2023	NA	4/20/2020
MW-8	TCE	10/30/2018	<1.0	1.0	---	5	5/3/2023	NA	4/20/2020
MW-8	TCE	4/1/2019	<1.0	1.0	---	5	5/3/2023	NA	4/20/2020
MW-8	TCE	10/8/2019	<1.0	1.0	0.500	5	5/3/2023	NA	4/20/2020
MW-8	TCE	4/20/2020	<1.0	1.0	0.500	5	5/3/2023	NA	4/20/2020
MW-8	TCE	10/20/2020	<1.0	1.0	0.500	5	5/3/2023	NA	4/20/2020
MW-8	TCE	4/26/2021	<1.0	1.0	0.500	5	5/3/2023	NA	4/20/2020
MW-8	TCE	8/16/2021	<1.0	1.0	0.500	5	5/3/2023	NA	4/20/2020
MW-8	TCE	6/1/2022	<1.0	1.0	0.500	5	5/3/2023	NA	4/20/2020
MW-8	TCE	10/3/2022	<1.0	1.0	0.500	5	5/3/2023	NA	4/20/2020
MW-8	TCE	5/3/2023	1.13	1.0	0.287	5	5/3/2023	NA	4/20/2020
MW-8	TCE	10/11/2023	<1.0	1.0	0.287	5	5/3/2023	NA	4/20/2020
MW-8	vinyl chloride	4/11/2018	2.74	1.0	---	2	4/11/2018	NA	4/20/2020
MW-8	vinyl chloride	10/30/2018	2.18	1.0	---	2	4/11/2018	NA	4/20/2020
MW-8	vinyl chloride	4/1/2019	5.33	1.0	---	2	4/11/2018	NA	4/20/2020
MW-8	vinyl chloride	10/8/2019	7.13	1.0	2.346	2	4/11/2018	NA	4/20/2020
MW-8	vinyl chloride	4/20/2020	1.73	1.0	1.857	2	4/11/2018	NA	4/20/2020
MW-8	vinyl chloride	10/20/2020	3.25	1.0	2.313	2	4/11/2018	NA	4/20/2020
MW-8	vinyl chloride	4/26/2021	2.16	1.0	1.437	2	4/11/2018	NA	4/20/2020
MW-8	vinyl chloride	8/16/2021	2.40	1.0	1.831	2	4/11/2018	NA	4/20/2020
MW-8	vinyl chloride	6/1/2022	2.72	1.0	2.224	2	4/11/2018	NA	4/20/2020
MW-8	vinyl chloride	10/3/2022	1.62	1.0	1.823	2	4/11/2018	NA	4/20/2020
MW-8	vinyl chloride	5/3/2023	2.16	1.0	1.679	2	4/11/2018	NA	4/20/2020
MW-8	vinyl chloride	10/11/2023	1.03	1.0	1.030	2	4/11/2018	NA	4/20/2020
MW-8	chloride	4/11/2018	16.40	7.3	---	---	4/11/2018	NA	4/20/2020
MW-8	chloride	10/30/2018	35.60	7.3	---	---	4/11/2018	NA	4/20/2020
MW-8	chloride	4/1/2019	30.30	7.3	---	---	4/11/2018	NA	4/20/2020
MW-8	chloride	10/8/2019	26.30	7.3	20.121	---	4/11/2018	NA	4/20/2020
MW-8	chloride	4/20/2020	21.70	7.3	23.358	---	4/11/2018	NA	4/20/2020
MW-8	chloride	10/20/2020	21.70	7.3	21.410	---	4/11/2018	NA	4/20/2020
MW-8	chloride	4/26/2021	16.30	7.3	17.959	---	4/11/2018	NA	4/20/2020
MW-8	chloride	8/16/2021	15.60	7.3	15.939	---	4/11/2018	NA	4/20/2020
MW-8	chloride	6/1/2022	13.10	7.3	13.539	---	4/11/2018	NA	4/20/2020
MW-8	chloride	10/3/2022	12.80	7.3	12.926	---	4/11/2018	NA	4/20/2020
MW-8	chloride	5/3/2023	12.90	7.3	12.440	---	4/11/2018	NA	4/20/2020
MW-8	chloride	10/11/2023	12.70	7.3	12.727	---	4/11/2018	NA	4/20/2020
MW-8	Specific Conductance	4/11/2018	1232	1188.4824	---	---	4/11/2018	NA	4/20/2020
MW-8	Specific Conductance	10/30/2018	1473	1188.4824	---	---	4/11/2018	NA	4/20/2020
MW-8	Specific Conductance	4/1/2019	1507	1188.4824	---	---	4/11/2018	NA	4/20/2020
MW-8	Specific Conductance	10/8/2019	1564	1188.4824	1317.357	---	4/11/2018	NA	4/20/2020
MW-8	Specific Conductance	4/20/2020	1622	1188.4824	1484.779	---	4/11/2018	NA	4/20/2020
MW-8	Specific Conductance	10/20/2020	1557	1188.4824	1521.717	---	4/11/2018	NA	4/20/2020
MW-8	Specific Conductance	4/26/2021	1618	1188.4824	1560.364	---	4/11/2018	NA	4/20/2020
MW-8	Specific Conductance	8/16/2021	1834	1188.4824	1552.782	---	4/11/2018	NA	4/20/2020
MW-8	Specific Conductance	6/1/2022	1466	1188.4824	1483.215	---	4/11/2018	NA	4/20/2020
MW-8	Specific Conductance	10/3/2022	1456	1188.4824	1440.527	---	4/11/2018	NA	4/20/2020
MW-8	Specific Conductance	5/3/2023	1390	1188.4824	1362.274	---	4/11/2018	NA	4/20/2020
MW-8	Specific Conductance	10/11/2023	1393	1188.4824	1391.305	---	4/11/2018	NA	4/20/2020
MW-8	TOX	4/11/2018	82.00	11.4	---	---	4/11/2018	NA	6/1/2022
MW-8	TOX	10/30/2018	NT	11.4	---	---	4/11/2018	NA	6/1/2022
MW-8	TOX	4/1/2019	76.50	11.4	---	---	4/11/2018	NA	6/1/2022
MW-8	TOX	10/8/2019	NT	11.4	---	---	4/11/2018	NA	6/1/2022
MW-8	TOX	4/20/2020	<40	11.4	---	---	4/11/2018	NA	6/1/2022
MW-8	TOX	10/20/2020	NT	11.4	---	---	4/11/2018	NA	6/1/2022
MW-8	TOX	4/26/2021	53.00	11.4	33.446	---	4/11/2018	NA	6/1/2022
MW-8	TOX	8/16/2021	NT	11.4	---	---	4/11/2018	NA	6/1/2022
MW-8	TOX	6/1/2022	46.00	11.4	28.737	---	4/11/2018	NA	6/1/2022
MW-8	TOX	10/3/2022	NT	11.4	---	---	4/11/2018	NA	6/1/2022
MW-8	TOX	5/3/2023	65.00	11.4	29.523	---	4/11/2018	NA	6/1/2022
MW-8	TOX	10/11/2023	NT	11.4	---	---	4/11/2018	NA	6/1/2022

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Table 7

Summary of Ongoing & Newly Identified SSI

Annual Water Quality Report

Plymouth County Sanitary Landfill

Permit No. 75-SDP-01-74P

KEY:

SSI

SSL LCL>GWPS

Note: The absence of shading indicates that the condition does not exist.

Monitoring Well	Compound	Sample Date	Each	Prediction	95% LCL (ug/L)	GWPS	SSI	Resamples Due	5th Background Sample
			Result (ug/L)	Limit (ug/L)		Limit (ug/L)	Initial Exceedance		
MW-10	cis-1,2-dichloroethylene	4/11/2018	2.37	1.0	---	70	4/11/2018	NA	4/20/2020
MW-10	cis-1,2-dichloroethylene	10/30/2018	<1.0	1.0	---	70	4/11/2018	NA	4/20/2020
MW-10	cis-1,2-dichloroethylene	4/1/2019	<1.0	1.0	---	70	4/11/2018	NA	4/20/2020
MW-10	cis-1,2-dichloroethylene	10/8/2019	<1.0	1.0	0.158	70	4/11/2018	NA	4/20/2020
MW-10	cis-1,2-dichloroethylene	4/20/2020	5.16	1.0	0.000	70	4/11/2018	NA	4/20/2020
MW-10	cis-1,2-dichloroethylene	10/20/2020	2.39	1.0	0.229	70	4/11/2018	NA	4/20/2020
MW-10	cis-1,2-dichloroethylene	4/26/2021	1.17	1.0	0.523	70	4/11/2018	NA	4/20/2020
MW-10	cis-1,2-dichloroethylene	8/16/2021	2.11	1.0	1.221	70	4/11/2018	NA	4/20/2020
MW-10	cis-1,2-dichloroethylene	6/1/2022	2.16	1.0	1.491	70	4/11/2018	NA	4/20/2020
MW-10	cis-1,2-dichloroethylene	10/3/2022	dry	1.0	1.491	70	4/11/2018	NA	4/20/2020
MW-10	cis-1,2-dichloroethylene	5/3/2023	<1.0	1.0	0.793	70	4/11/2018	NA	4/20/2020
MW-10	cis-1,2-dichloroethylene	10/11/2023	<1.0	1.0	0.500	70	4/11/2018	NA	4/20/2020
MW-10	COD	4/11/2018	21.40	21.2	---	---	5/3/2023	NA	4/20/2020
MW-10	COD	10/30/2018	55.10	21.2	---	---	5/3/2023	NA	4/20/2020
MW-10	COD	4/1/2019	37.80	21.2	---	---	5/3/2023	NA	4/20/2020
MW-10	COD	10/8/2019	44.50	21.2	27.466	---	5/3/2023	NA	4/20/2020
MW-10	COD	4/20/2020	53.40	21.2	40.709	---	5/3/2023	NA	4/20/2020
MW-10	COD	10/20/2020	64.20	21.2	40.072	---	5/3/2023	NA	4/20/2020
MW-10	COD	4/26/2021	66.80	21.2	48.324	---	5/3/2023	NA	4/20/2020
MW-10	COD	8/16/2021	28.60	21.2	38.157	---	5/3/2023	NA	4/20/2020
MW-10	COD	6/1/2022	36.20	21.2	32.158	---	5/3/2023	NA	4/20/2020
MW-10	COD	10/3/2022	dry	21.2	32.158	---	5/3/2023	NA	4/20/2020
MW-10	COD	5/3/2023	26.60	21.2	23.415	---	5/3/2023	NA	4/20/2020
MW-10	COD	10/11/2023	40.90	21.2	27.310	---	5/3/2023	NA	4/20/2020
MW-10	chloride	4/11/2018	102.00	7.3	---	---	4/11/2018	NA	4/20/2020
MW-10	chloride	10/30/2018	140.00	7.3	---	---	4/11/2018	NA	4/20/2020
MW-10	chloride	4/1/2019	372.00	7.3	---	---	4/11/2018	NA	4/20/2020
MW-10	chloride	10/8/2019	196.00	7.3	99.085	---	4/11/2018	NA	4/20/2020
MW-10	chloride	4/20/2020	295.00	7.3	161.415	---	4/11/2018	NA	4/20/2020
MW-10	chloride	10/20/2020	269.00	7.3	220.091	---	4/11/2018	NA	4/20/2020
MW-10	chloride	4/26/2021	392.00	7.3	217.840	---	4/11/2018	NA	4/20/2020
MW-10	chloride	8/16/2021	115.00	7.3	168.358	---	4/11/2018	NA	4/20/2020
MW-10	chloride	6/1/2022	107.00	7.3	102.665	---	4/11/2018	NA	4/20/2020
MW-10	chloride	10/3/2022	dry	7.3	102.665	---	4/11/2018	NA	4/20/2020
MW-10	chloride	5/3/2023	166.00	7.3	79.032	---	4/11/2018	NA	4/20/2020
MW-10	chloride	10/11/2023	101.00	7.3	96.507	---	4/11/2018	NA	4/20/2020
MW-10	Specific Conductance	4/11/2018	1200	1188.4824	---	---	4/11/2018	NA	4/20/2020
MW-10	Specific Conductance	10/30/2018	1776	1188.4824	---	---	4/11/2018	NA	4/20/2020
MW-10	Specific Conductance	4/1/2019	1890	1188.4824	---	---	4/11/2018	NA	4/20/2020
MW-10	Specific Conductance	10/8/2019	1855	1188.4824	1399.920	---	4/11/2018	NA	4/20/2020
MW-10	Specific Conductance	4/20/2020	1861	1188.4824	1803.248	---	4/11/2018	NA	4/20/2020
MW-10	Specific Conductance	10/20/2020	2520	1188.4824	1749.154	---	4/11/2018	NA	4/20/2020
MW-10	Specific Conductance	4/26/2021	1999	1188.4824	1786.289	---	4/11/2018	NA	4/20/2020
MW-10	Specific Conductance	8/16/2021	1673	1188.4824	1698.628	---	4/11/2018	NA	4/20/2020
MW-10	Specific Conductance	6/1/2022	1472	1188.4824	1519.802	---	4/11/2018	NA	4/20/2020
MW-10	Specific Conductance	10/3/2022	dry	1188.4824	1519.802	---	4/11/2018	NA	4/20/2020
MW-10	Specific Conductance	5/3/2023	1538	1188.4824	1467.475	---	4/11/2018	NA	4/20/2020
MW-10	Specific Conductance	10/11/2023	1394	1188.4824	1416.889	---	4/11/2018	NA	4/20/2020
MW-10	TOX	4/11/2018	50.00	11.4	---	---	4/11/2018	NA	4/26/2021
MW-10	TOX	10/30/2018	NT	11.4	---	---	4/11/2018	NA	4/26/2021
MW-10	TOX	4/1/2019	64.20	11.4	---	---	4/11/2018	NA	4/26/2021
MW-10	TOX	10/8/2019	NT	11.4	---	---	4/11/2018	NA	4/26/2021
MW-10	TOX	4/20/2020	<40	11.4	---	---	4/11/2018	NA	4/26/2021
MW-10	TOX	10/20/2020	NT	11.4	---	---	4/11/2018	NA	4/26/2021
MW-10	TOX	4/26/2021	76.00	11.4	31.624	---	4/11/2018	NA	4/26/2021
MW-10	TOX	8/16/2021	NT	11.4	---	---	4/11/2018	NA	4/26/2021
MW-10	TOX	6/1/2022	41.00	11.4	28.746	---	4/11/2018	NA	4/26/2021
MW-10	TOX	10/3/2022	NT	11.4	---	---	4/11/2018	NA	4/26/2021
MW-10	TOX	5/3/2023	45.00	11.4	25.494	---	4/11/2018	NA	4/26/2021
MW-10	TOX	10/11/2023	NT	11.4	---	---	4/11/2018	NA	4/26/2021

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Annual Water Quality Report

Plymouth County Sanitary Landfill

Permit No. 75-SDP-01-74P

Note: The absence of shading indicates that the condition does not exist.

Monitoring Well	Compound	Sample Date	Each Result (ug/L)	Prediction Limit (ug/L)	95% LCL (ug/L)	GWPS Limit (ug/L)	SSI Initial	Resamples Due	5th Background Sample
							Exceedance		
MW-11	chloride	4/11/2018	89.30	7.3	---	---	4/11/2018	NA	4/20/2020
MW-11	chloride	10/30/2018	75.10	7.3	---	---	4/11/2018	NA	4/20/2020
MW-11	chloride	4/1/2019	81.10	7.3	---	---	4/11/2018	NA	4/20/2020
MW-11	chloride	10/8/2019	69.20	7.3	71.236	---	4/11/2018	NA	4/20/2020
MW-11	chloride	4/20/2020	72.00	7.3	69.929	---	4/11/2018	NA	4/20/2020
MW-11	chloride	10/20/2020	84.10	7.3	70.427	---	4/11/2018	NA	4/20/2020
MW-11	chloride	4/26/2021	100.00	7.3	69.176	---	4/11/2018	NA	4/20/2020
MW-11	chloride	8/16/2021	38.40	7.3	50.993	---	4/11/2018	NA	4/20/2020
MW-11	chloride	6/1/2022	26.90	7.3	31.850	---	4/11/2018	NA	4/20/2020
MW-11	chloride	10/3/2022	24.30	7.3	16.571	---	4/11/2018	NA	4/20/2020
MW-11	chloride	5/3/2023	25.10	7.3	22.982	---	4/11/2018	NA	4/20/2020
MW-11	chloride	10/11/2023	55.40	7.3	19.915	---	4/11/2018	NA	4/20/2020
MW-11	Specific Conductance	4/11/2018	1175	1188.4824	---	---	10/30/2018	NA	4/20/2020
MW-11	Specific Conductance	10/30/2018	1204	1188.4824	---	---	10/30/2018	NA	4/20/2020
MW-11	Specific Conductance	4/1/2019	1296	1188.4824	---	---	10/30/2018	NA	4/20/2020
MW-11	Specific Conductance	10/8/2019	1316	1188.4824	1188.183	---	10/30/2018	NA	4/20/2020
MW-11	Specific Conductance	4/20/2020	1416	1188.4824	1232.687	---	10/30/2018	NA	4/20/2020
MW-11	Specific Conductance	10/20/2020	1462	1188.4824	1303.676	---	10/30/2018	NA	4/20/2020
MW-11	Specific Conductance	4/26/2021	1553	1188.4824	1351.364	---	10/30/2018	NA	4/20/2020
MW-11	Specific Conductance	8/16/2021	1465	1188.4824	1424.427	---	10/30/2018	NA	4/20/2020
MW-11	Specific Conductance	6/1/2022	1245	1188.4824	1317.675	---	10/30/2018	NA	4/20/2020
MW-11	Specific Conductance	10/3/2022	1266	1188.4824	1251.526	---	10/30/2018	NA	4/20/2020
MW-11	Specific Conductance	5/3/2023	1259	1188.4824	1218.223	---	10/30/2018	NA	4/20/2020
MW-11	Specific Conductance	10/11/2023	1300	1188.4824	1247.270	---	10/30/2018	NA	4/20/2020

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Monitoring Well	Compound	Sample Date	Each Result (ug/L)	Prediction Limit (ug/L)	95% LCL (ug/L)	GWPS Limit (ug/L)	SSI Initial Exceedance	Resamples Due	5th Background Sample
MW-12	benzene	4/11/2018	1.610	0.5	---	5	4/1/2019	NA	4/20/2020
MW-12	benzene	10/30/2018	1.520	0.5	---	5	4/1/2019	NA	4/20/2020
MW-12	benzene	4/1/2019	1.450	0.5	---	5	4/1/2019	NA	4/20/2020
MW-12	benzene	10/8/2019	1.870	0.5	1.453	5	4/1/2019	NA	4/20/2020
MW-12	benzene	4/20/2020	1.860	0.5	1.483	5	4/1/2019	NA	4/20/2020
MW-12	benzene	10/20/2020	2.010	0.5	1.588	5	4/1/2019	NA	4/20/2020
MW-12	benzene	4/26/2021	1.840	0.5	1.828	5	4/1/2019	NA	4/20/2020
MW-12	benzene	8/16/2021	1.950	0.5	1.846	5	4/1/2019	NA	4/20/2020
MW-12	benzene	6/1/2022	0.784	0.5	1.145	5	4/1/2019	NA	4/20/2020
MW-12	benzene	10/3/2022	1.460	0.5	1.052	5	4/1/2019	NA	4/20/2020
MW-12	benzene	5/3/2023	1.270	0.5	0.799	5	4/1/2019	NA	4/20/2020
MW-12	benzene	10/11/2023	1.160	0.5	0.834	5	4/1/2019	NA	4/20/2020
MW-12	cis-1,2-dichloroethylene	4/11/2018	50.40	1.0	---	70	4/11/2018	NA	4/20/2020
MW-12	cis-1,2-dichloroethylene	10/30/2018	29.60	1.0	---	70	4/11/2018	NA	4/20/2020
MW-12	cis-1,2-dichloroethylene	4/1/2019	34.30	1.0	---	70	4/11/2018	NA	4/20/2020
MW-12	cis-1,2-dichloroethylene	10/8/2019	47.30	1.0	31.719	70	4/11/2018	NA	4/20/2020
MW-12	cis-1,2-dichloroethylene	4/20/2020	52.40	1.0	31.620	70	4/11/2018	NA	4/20/2020
MW-12	cis-1,2-dichloroethylene	10/20/2020	55.10	1.0	39.277	70	4/11/2018	NA	4/20/2020
MW-12	cis-1,2-dichloroethylene	4/26/2021	49.00	1.0	47.931	70	4/11/2018	NA	4/20/2020
MW-12	cis-1,2-dichloroethylene	8/16/2021	64.70	1.0	49.458	70	4/11/2018	NA	4/20/2020
MW-12	cis-1,2-dichloroethylene	6/1/2022	31.00	1.0	37.661	70	4/11/2018	NA	4/20/2020
MW-12	cis-1,2-dichloroethylene	10/3/2022	35.20	1.0	31.783	70	4/11/2018	NA	4/20/2020
MW-12	cis-1,2-dichloroethylene	5/3/2023	31.90	1.0	21.760	70	4/11/2018	NA	4/20/2020
MW-12	cis-1,2-dichloroethylene	10/11/2023	31.30	1.0	30.072	70	4/11/2018	NA	4/20/2020
MW-12	TCE	4/11/2018	1.23	1.0	---	5	4/11/2018	NA	4/20/2020
MW-12	TCE	10/30/2018	<1.0	1.0	---	5	4/11/2018	NA	4/20/2020
MW-12	TCE	4/1/2019	1.18	1.0	---	5	4/11/2018	NA	4/20/2020
MW-12	TCE	10/8/2019	<1.0	1.0	0.500	5	4/11/2018	NA	4/20/2020
MW-12	TCE	4/20/2020	<1.0	1.0	0.376	5	4/11/2018	NA	4/20/2020
MW-12	TCE	10/20/2020	1.54	1.0	0.482	5	4/11/2018	NA	4/20/2020
MW-12	TCE	4/26/2021	<1.0	1.0	0.310	5	4/11/2018	NA	4/20/2020
MW-12	TCE	8/16/2021	<1.0	1.0	0.310	5	4/11/2018	NA	4/20/2020
MW-12	TCE	6/1/2022	<1.0	1.0	0.310	5	4/11/2018	NA	4/20/2020
MW-12	TCE	10/3/2022	<1.0	1.0	0.500	5	4/11/2018	NA	4/20/2020
MW-12	TCE	5/3/2023	<1.0	1.0	0.500	5	4/11/2018	NA	4/20/2020
MW-12	TCE	10/11/2023	<1.0	1.0	0.500	5	4/11/2018	NA	4/20/2020
MW-12	vinyl chloride	4/11/2018	4.48	1.0	---	2	4/11/2018	NA	4/20/2020
MW-12	vinyl chloride	10/30/2018	9.14	1.0	---	2	4/11/2018	NA	4/20/2020
MW-12	vinyl chloride	4/1/2019	8.96	1.0	---	2	4/11/2018	NA	4/20/2020
MW-12	vinyl chloride	10/8/2019	6.50	1.0	5.351	2	4/11/2018	NA	4/20/2020
MW-12	vinyl chloride	4/20/2020	4.90	1.0	5.606	2	4/11/2018	NA	4/20/2020
MW-12	vinyl chloride	10/20/2020	5.41	1.0	4.878	2	4/11/2018	NA	4/20/2020
MW-12	vinyl chloride	4/26/2021	3.57	1.0	4.042	2	4/11/2018	NA	4/20/2020
MW-12	vinyl chloride	8/16/2021	4.08	1.0	3.778	2	4/11/2018	NA	4/20/2020
MW-12	vinyl chloride	6/1/2022	1.56	1.0	2.271	2	4/11/2018	NA	4/20/2020
MW-12	vinyl chloride	10/3/2022	7.15	1.0	2.088	2	4/11/2018	NA	4/20/2020
MW-12	vinyl chloride	5/3/2023	4.19	1.0	1.556	2	4/11/2018	NA	4/20/2020
MW-12	vinyl chloride	10/11/2023	3.56	1.0	1.394	2	4/11/2018	NA	4/20/2020
MW-12	chloride	4/11/2018	15.20	7.3	---	---	4/11/2018	NA	4/20/2020
MW-12	chloride	10/30/2018	42.60	7.3	---	---	4/11/2018	NA	4/20/2020
MW-12	chloride	4/1/2019	31.50	7.3	---	---	4/11/2018	NA	4/20/2020
MW-12	chloride	10/8/2019	12.00	7.3	12.909	---	4/11/2018	NA	4/20/2020
MW-12	chloride	4/20/2020	11.20	7.3	11.006	---	4/11/2018	NA	4/20/2020
MW-12	chloride	10/20/2020	12.30	7.3	8.225	---	4/11/2018	NA	4/20/2020
MW-12	chloride	4/26/2021	9.32	7.3	10.045	---	4/11/2018	NA	4/20/2020
MW-12	chloride	8/16/2021	12.50	7.3	10.068	---	4/11/2018	NA	4/20/2020
MW-12	chloride	6/1/2022	32.00	7.3	7.510	---	4/11/2018	NA	4/20/2020
MW-12	chloride	10/3/2022	21.70	7.3	10.046	---	4/11/2018	NA	4/20/2020
MW-12	chloride	5/3/2023	29.10	7.3	16.285	---	4/11/2018	NA	4/20/2020
MW-12	chloride	10/11/2023	34.00	7.3	24.533	---	4/11/2018	NA	4/20/2020
MW-12	iron	4/11/2018	22900.00	100	---	---	4/11/2018	NA	4/20/2020
MW-12	iron	10/30/2018	27900.00	100	---	---	4/11/2018	NA	4/20/2020
MW-12	iron	4/1/2019	20200.00	100	---	---	4/11/2018	NA	4/20/2020
MW-12	iron	10/8/2019	27400.00	100	21399.220	---	4/11/2018	NA	4/20/2020
MW-12	iron	4/20/2020	24800.00	100	22024.280	---	4/11/2018	NA	4/20/2020
MW-12	iron	10/20/2020	19400.00	100	19656.450	---	4/11/2018	NA	4/20/2020
MW-12	iron	4/26/2021	27800.00	100	21499.250	---	4/11/2018	NA	4/20/2020
MW-12	iron	8/16/2021	29900.00	100	21526.980	---	4/11/2018	NA	4/20/2020
MW-12	iron	6/1/2022	25300.00	100	21667.440	---	4/11/2018	NA	4/20/2020
MW-12	iron	10/3/2022	9460.00	100	15064.860	---	4/11/2018	NA	4/20/2020
MW-12	iron	5/3/2023	10800.00	100	9967.266	---	4/11/2018	NA	4/20/2020
MW-12	iron	10/11/2023	7290.00	100	6122.277	---	4/11/2018	NA	4/20/2020
MW-12	Specific Conductance	4/11/2018	1304	1188.4824	---	---	4/11/2018	NA	4/20/2020
MW-12	Specific Conductance	10/30/2018	1556	1188.4824	---	---	4/11/2018	NA	4/20/2020
MW-12	Specific Conductance	4/1/2019	1399	1188.4824	---	---	4/11/2018	NA	4/20/2020
MW-12	Specific Conductance	10/8/2019	1499	1188.4824	1343.176	---	4/11/2018	NA	4/20/2020
MW-12	Specific Conductance	4/20/2020	1386	1188.4824	1389.406	---	4/11/2018	NA	4/20/2020
MW-12	Specific Conductance	10/20/2020	1684	1188.4824	1372.838	---	4/11/2018	NA	4/20/2020
MW-12	Specific Conductance	4/26/2021	1637	1188.4824	1434.226	---	4/11/2018	NA	4/20/2020
MW-12	Specific Conductance	8/16/2021	1754	1188.4824	1476.500	---	4/11/2018	NA	4/20/2020
MW-12	Specific Conductance	6/1/2022	1371	1188.4824	1466.541	---	4/11/2018	NA	4/20/2020
MW-12	Specific Conductance	10/3/2022	1494	1188.4824	1419.451	---	4/11/2018	NA	4/20/2020
MW-12	Specific Conductance	5/3/2023	1481	1188.4824	1384.417	---	4/11/2018	NA	4/20/2020
MW-12	Specific Conductance	10/11/2023	1422	1188.4824	1392.842	---	4/11/2018	NA	4/20/2020
MW-12	TOX	4/11/2018	41.90	11.4	---	---	4/11/2018	NA	6/1/2022
MW-12	TOX	10/30/2018	NT	11.4	---	---	4/11/2018	NA	6/1/2022
MW-12	TOX	4/1/2019	37.40	11.4	---	---	4/11/2018	NA	6/1/2022
MW-12	TOX	10/8/2019	NT	11.4	---	---	4/11/2018	NA	6/1/2022
MW-12	TOX	4/20/2020	<40	11.4	---	---	4/11/2018	NA	6/1/2022
MW-12	TOX	10/20/2020	NT	11.4	---	---	4/11/2018	NA	6/1/2022
MW-12	TOX	4/26/2021	42.00	11.4	26.284	---	4/11/2018	NA	6/1/2022
MW-12	TOX	8/16/2021	NT	11.4	---	---	4/11/2018	NA	6/1/2022
MW-12	TOX	6/1/2022	48.00	11.4	26.421	---	4/11/2018	NA	6/1/2022
MW-12	TOX	10/3/2022	NT	11.4	---	---	4/11/2018	NA	6/1/2022
MW-12	TOX	5/3/2023	47.00	11.4	27.906	---	4/11/2018	NA	6/1/2022
MW-12	TOX	10/11/2023	NT	11.4	---	---	4/11/2018	NA	6/1/2022

Bold Result = A value that exceeds the GWPS.

Bold GWPS = A Site Specific GWPS that is equal to the Prediction Limit. All other GWPS are IAC 567-137 Statewide Standards for Protected Groundwater.

Table 7

Summary of Ongoing & Newly Identified SSI

Annual Water Quality Report

Plymouth County Sanitary Landfill

Permit No. 75-SDP-01-74P

KEY:

SSI

SSL LCL>GWPS

Note: The absence of shading indicates that the condition does not exist.

Monitoring Well	Compound	Sample Date	Each Result (ug/L)	Prediction Limit (ug/L)	95% LCL (ug/L)	GWPS Limit (ug/L)	SSI		Resamples Due	5th Background Sample
							Initial Exceedance			
MW-13	COD	4/11/2018	17.20	21.2	---	---	4/1/2019		NA	4/20/2020
MW-13	COD	10/30/2018	18.60	21.2	---	---	4/1/2019		NA	4/20/2020
MW-13	COD	4/1/2019	32.50	21.2	---	---	4/1/2019		NA	4/20/2020
MW-13	COD	10/8/2019	60.20	21.2	14.848	---	4/1/2019		NA	4/20/2020
MW-13	COD	4/20/2020	26.70	21.2	18.862	---	4/1/2019		NA	4/20/2020
MW-13	COD	10/20/2020	8.56	21.2	13.463	---	4/1/2019		NA	4/20/2020
MW-13	COD	4/26/2021	22.50	21.2	10.531	---	4/1/2019		NA	4/20/2020
MW-13	COD	8/16/2021	12.50	21.2	10.241	---	4/1/2019		NA	4/20/2020
MW-13	COD	6/1/2022	20.90	21.2	10.331	---	4/1/2019		NA	4/20/2020
MW-13	COD	10/3/2022	13.50	21.2	12.949	---	4/1/2019		NA	4/20/2020
MW-13	COD	5/3/2023	23.50	21.2	12.896	---	4/1/2019		NA	4/20/2020
MW-13	COD	10/11/2023	20.30	21.2	15.856	---	4/1/2019		NA	4/20/2020
MW-13	chloride	4/11/2018	124.00	7.3	---	---	4/11/2018		NA	4/20/2020
MW-13	chloride	10/30/2018	132.00	7.3	---	---	4/11/2018		NA	4/20/2020
MW-13	chloride	4/1/2019	147.00	7.3	---	---	4/11/2018		NA	4/20/2020
MW-13	chloride	10/8/2019	179.00	7.3	124.470	---	4/11/2018		NA	4/20/2020
MW-13	chloride	4/20/2020	116.00	7.3	120.257	---	4/11/2018		NA	4/20/2020
MW-13	chloride	10/20/2020	32.50	7.3	64.139	---	4/11/2018		NA	4/20/2020
MW-13	chloride	4/26/2021	85.20	7.3	50.185	---	4/11/2018		NA	4/20/2020
MW-13	chloride	8/16/2021	33.10	7.3	31.093	---	4/11/2018		NA	4/20/2020
MW-13	chloride	6/1/2022	24.70	7.3	19.787	---	4/11/2018		NA	4/20/2020
MW-13	chloride	10/3/2022	21.70	7.3	15.416	---	4/11/2018		NA	4/20/2020
MW-13	chloride	5/3/2023	73.00	7.3	17.561	---	4/11/2018		NA	4/20/2020
MW-13	chloride	10/11/2023	33.10	7.3	17.561	---	4/11/2018		NA	4/20/2020
MW-13	iron	4/11/2018	<500	100	---	---	10/8/2019		NA	4/20/2020
MW-13	iron	10/30/2018	<500	100	---	---	10/8/2019		NA	4/20/2020
MW-13	iron	4/1/2019	<500	100	---	---	10/8/2019		NA	4/20/2020
MW-13	iron	10/8/2019	1780.00	100	0.000	---	10/8/2019		NA	4/20/2020
MW-13	iron	4/20/2020	1370.00	100	234.327	---	10/8/2019		NA	4/20/2020
MW-13	iron	10/20/2020	<500	100	234.327	---	10/8/2019		NA	4/20/2020
MW-13	iron	4/26/2021	<500	100	234.327	---	10/8/2019		NA	4/20/2020
MW-13	iron	8/16/2021	3430.00	100	26.510	---	10/8/2019		NA	4/20/2020
MW-13	iron	6/1/2022	1710.00	100	100.267	---	10/8/2019		NA	4/20/2020
MW-13	iron	10/3/2022	1740.00	100	656.681	---	10/8/2019		NA	4/20/2020
MW-13	iron	5/3/2023	1200.00	100	1178.127	---	10/8/2019		NA	4/20/2020
MW-13	iron	10/11/2023	747.00	100	940.653	---	10/8/2019		NA	4/20/2020
MW-13	Specific Conductance	4/11/2018	1332	1188.4824	---	---	4/11/2018		NA	4/20/2020
MW-13	Specific Conductance	10/30/2018	1578	1188.4824	---	---	4/11/2018		NA	4/20/2020
MW-13	Specific Conductance	4/1/2019	1590	1188.4824	---	---	4/11/2018		NA	4/20/2020
MW-13	Specific Conductance	10/8/2019	1854	1188.4824	1403.842	---	4/11/2018		NA	4/20/2020
MW-13	Specific Conductance	4/20/2020	1680	1188.4824	1565.161	---	4/11/2018		NA	4/20/2020
MW-13	Specific Conductance	10/20/2020	990	1188.4824	1203.436	---	4/11/2018		NA	4/20/2020
MW-13	Specific Conductance	4/26/2021	1595	1188.4824	1204.442	---	4/11/2018		NA	4/20/2020
MW-13	Specific Conductance	8/16/2021	1209	1188.4824	1086.970	---	4/11/2018		NA	4/20/2020
MW-13	Specific Conductance	6/1/2022	938	1188.4824	924.304	---	4/11/2018		NA	4/20/2020
MW-13	Specific Conductance	10/3/2022	917	1188.4824	890.949	---	4/11/2018		NA	4/20/2020
MW-13	Specific Conductance	5/3/2023	1446	1188.4824	910.529	---	4/11/2018		NA	4/20/2020
MW-13	Specific Conductance	10/11/2023	990	1188.4824	855.622	---	4/11/2018		NA	4/20/2020
MW-13	TOX	4/11/2018	69.20	11.4	---	---	4/11/2018		NA	6/1/2022
MW-13	TOX	10/30/2018	NT	11.4	---	---	4/11/2018		NA	6/1/2022
MW-13	TOX	4/1/2019	72.70	11.4	---	---	4/11/2018		NA	6/1/2022
MW-13	TOX	10/8/2019	NT	11.4	---	---	4/11/2018		NA	6/1/2022
MW-13	TOX	4/20/2020	54.10	11.4	---	---	4/11/2018		NA	6/1/2022
MW-13	TOX	10/20/2020	NT	11.4	---	---	4/11/2018		NA	6/1/2022
MW-13	TOX	4/26/2021	31.00	11.4	26.284	---	4/11/2018		NA	6/1/2022
MW-13	TOX	8/16/2021	NT	11.4	---	---	4/11/2018		NA	6/1/2022
MW-13	TOX	6/1/2022	11.00	11.4	26.421	---	4/11/2018		NA	6/1/2022
MW-13	TOX	10/3/2022	NT	11.4	---	---	4/11/2018		NA	6/1/2022
MW-13	TOX	5/3/2023	77.00	11.4	27.906	---	4/11/2018		NA	6/1/2022
MW-13	TOX	10/11/2023	NT	11.4	---	---	4/11/2018		NA	6/1/2022

Bold Result = A value that exceeds the GWPS.

Bold GWPS = A Site Specific GWPS that is equal to the Prediction Limit. All other GWPS are IAC 567-137 Statewide Standards for Protected Groundwater.

Table 7

Summary of Ongoing & Newly Identified SSI

Annual Water Quality Report

Plymouth County Sanitary Landfill

Permit No. 75-SDP-01-74P

KEY:

SSI

SSL LCL>GWPS

Note: The absence of shading indicates that the condition does not exist.

Monitoring Well	Compound	Sample Date	Each Result (ug/L)	Prediction Limit (ug/L)	95% LCL (ug/L)	GWPS Limit (ug/L)	SSI Initial Exceedance	Resamples Due	5th Background Sample
MW-14	1,2-dichloropropane	4/11/2018	1.13	1.0	---	5	4/11/2018	NA	5/28/2020
MW-14	1,2-dichloropropane	10/30/2018	<1.0	1.0	---	5	4/11/2018	NA	5/28/2020
MW-14	1,2-dichloropropane	4/1/2019	<1.0	1.0	---	5	4/11/2018	NA	5/28/2020
MW-14	1,2-dichloropropane	10/8/2019	<1.0	1.0	0.385	5	4/11/2018	NA	5/28/2020
MW-14	1,2-dichloropropane	5/28/2020	<1.0	1.0	0.500	5	4/11/2018	NA	5/28/2020
MW-14	1,2-dichloropropane	10/20/2020	1.17	1.0	0.377	5	4/11/2018	NA	5/28/2020
MW-14	1,2-dichloropropane	4/26/2021	1.03	1.0	0.496	5	4/11/2018	NA	5/28/2020
MW-14	1,2-dichloropropane	8/16/2021	1.55	1.0	0.686	5	4/11/2018	NA	5/28/2020
MW-14	1,2-dichloropropane	6/1/2022	<1.0	1.0	0.686	5	4/11/2018	NA	5/28/2020
MW-14	1,2-dichloropropane	10/3/2022	Dry	1.0	0.686	5	4/11/2018	NA	5/28/2020
MW-14	1,2-dichloropropane	5/3/2023	<1.0	1.0	0.303	5	4/11/2018	NA	5/28/2020
MW-14	1,2-dichloropropane	10/11/2023	<1.0	1.0	0.145	5	4/11/2018	NA	5/28/2020
MW-14	benzene	4/11/2018	0.592	0.5	---	5	4/11/2018	NA	4/20/2020
MW-14	benzene	10/30/2018	<0.5	0.5	---	5	4/11/2018	NA	4/20/2020
MW-14	benzene	4/1/2019	0.561	0.5	---	5	4/11/2018	NA	4/20/2020
MW-14	benzene	10/8/2019	0.627	0.5	0.357	5	4/11/2018	NA	4/20/2020
MW-14	benzene	4/20/2020	0.628	0.5	0.360	5	4/11/2018	NA	4/20/2020
MW-14	benzene	10/20/2020	0.713	0.5	0.578	5	4/11/2018	NA	4/20/2020
MW-14	benzene	4/26/2021	<0.5	0.5	0.375	5	4/11/2018	NA	4/20/2020
MW-14	benzene	8/16/2021	<0.5	0.5	0.248	5	4/11/2018	NA	4/20/2020
MW-14	benzene	6/1/2022	<0.5	0.5	0.165	5	4/11/2018	NA	4/20/2020
MW-14	benzene	10/3/2022	Dry	0.5	0.165	5	4/11/2018	NA	4/20/2020
MW-14	benzene	5/3/2023	<0.5	0.5	0.250	5	4/11/2018	NA	4/20/2020
MW-14	benzene	10/11/2023	<0.5	0.5	0.250	5	4/11/2018	NA	4/20/2020
MW-14	cis-1,2-dichloroethylene	4/11/2018	59.80	1.0	---	70	4/11/2018	NA	4/20/2020
MW-14	cis-1,2-dichloroethylene	10/30/2018	21.40	1.0	---	70	4/11/2018	NA	4/20/2020
MW-14	cis-1,2-dichloroethylene	4/1/2019	45.30	1.0	---	70	4/11/2018	NA	4/20/2020
MW-14	cis-1,2-dichloroethylene	10/8/2019	54.40	1.0	30.526	70	4/11/2018	NA	4/20/2020
MW-14	cis-1,2-dichloroethylene	4/20/2020	63.60	1.0	30.476	70	4/11/2018	NA	4/20/2020
MW-14	cis-1,2-dichloroethylene	10/20/2020	73.20	1.0	48.738	70	4/11/2018	NA	4/20/2020
MW-14	cis-1,2-dichloroethylene	4/26/2021	56.10	1.0	54.401	70	4/11/2018	NA	4/20/2020
MW-14	cis-1,2-dichloroethylene	8/16/2021	74.30	1.0	59.351	70	4/11/2018	NA	4/20/2020
MW-14	cis-1,2-dichloroethylene	6/1/2022	33.30	1.0	42.609	70	4/11/2018	NA	4/20/2020
MW-14	cis-1,2-dichloroethylene	10/3/2022	Dry	1.0	42.609	70	4/11/2018	NA	4/20/2020
MW-14	cis-1,2-dichloroethylene	5/3/2023	36.60	1.0	27.693	70	4/11/2018	NA	4/20/2020
MW-14	cis-1,2-dichloroethylene	10/11/2023	41.60	1.0	24.245	70	4/11/2018	NA	4/20/2020
MW-14	TCE	4/11/2018	1.13	1.0	---	5	4/11/2018	NA	4/20/2020
MW-14	TCE	10/30/2018	<1.0	1.0	---	5	4/11/2018	NA	4/20/2020
MW-14	TCE	4/1/2019	<1.0	1.0	---	5	4/11/2018	NA	4/20/2020
MW-14	TCE	10/8/2019	<1.0	1.0	0.385	5	4/11/2018	NA	4/20/2020
MW-14	TCE	4/20/2020	<1.0	1.0	0.500	5	4/11/2018	NA	4/20/2020
MW-14	TCE	10/20/2020	<1.0	1.0	0.500	5	4/11/2018	NA	4/20/2020
MW-14	TCE	4/26/2021	<1.0	1.0	0.500	5	4/11/2018	NA	4/20/2020
MW-14	TCE	8/16/2021	<1.0	1.0	0.500	5	4/11/2018	NA	4/20/2020
MW-14	TCE	6/1/2022	<1.0	1.0	0.500	5	4/11/2018	NA	4/20/2020
MW-14	TCE	10/3/2022	Dry	1.0	0.500	5	4/11/2018	NA	4/20/2020
MW-14	TCE	5/3/2023	<1.0	1.0	0.500	5	4/11/2018	NA	4/20/2020
MW-14	TCE	10/11/2023	<1.0	1.0	0.500	5	4/11/2018	NA	4/20/2020
MW-14	COD	4/11/2018	6.60	21.2	---	---	5/3/2023	NA	4/20/2020
MW-14	COD	10/30/2018	<5.0	21.2	---	---	5/3/2023	NA	4/20/2020
MW-14	COD	4/1/2019	12.8	21.2	---	---	5/3/2023	NA	4/20/2020
MW-14	COD	10/8/2019	<5.0	21.2	1.885	---	5/3/2023	NA	4/20/2020
MW-14	COD	4/20/2020	6.24	21.2	1.803	---	5/3/2023	NA	4/20/2020
MW-14	COD	10/20/2020	<5.0	21.2	1.803	---	5/3/2023	NA	4/20/2020
MW-14	COD	4/26/2021	15.50	21.2	1.372	---	5/3/2023	NA	4/20/2020
MW-14	COD	8/16/2021	12.50	21.2	4.080	---	5/3/2023	NA	4/20/2020
MW-14	COD	6/1/2022	13.90	21.2	6.023	---	5/3/2023	NA	4/20/2020
MW-14	COD	10/3/2022	Dry	21.2	6.023	---	5/3/2023	NA	4/20/2020
MW-14	COD	5/3/2023	29.60	21.2	11.023	---	5/3/2023	NA	4/20/2020
MW-14	COD	10/11/2023	42.60	21.2	12.302	---	5/3/2023	NA	4/20/2020
MW-14	chloride	4/11/2018	48.20	7.3	---	---	4/11/2018	NA	4/20/2020
MW-14	chloride	10/30/2018	20.50	7.3	---	---	4/11/2018	NA	4/20/2020
MW-14	chloride	4/1/2019	36.50	7.3	---	---	4/11/2018	NA	4/20/2020
MW-14	chloride	10/8/2019	30.50	7.3	23.895	---	4/11/2018	NA	4/20/2020
MW-14	chloride	4/20/2020	41.60	7.3	24.423	---	4/11/2018	NA	4/20/2020
MW-14	chloride	10/20/2020	50.20	7.3	32.476	---	4/11/2018	NA	4/20/2020
MW-14	chloride	4/26/2021	51.00	7.3	35.054	---	4/11/2018	NA	4/20/2020
MW-14	chloride	8/16/2021	50.30	7.3	44.409	---	4/11/2018	NA	4/20/2020
MW-14	chloride	6/1/2022	50.00	7.3	49.998	---	4/11/2018	NA	4/20/2020
MW-14	chloride	10/3/2022	Dry	7.3	49.998	---	4/11/2018	NA	4/20/2020
MW-14	chloride	5/3/2023	58.80	7.3	48.884	---	4/11/2018	NA	4/20/2020
MW-14	chloride	10/11/2023	109.00	7.3	42.535	---	4/11/2018	NA	4/20/2020
MW-14	Specific Conductance	4/11/2018	1227	1188.4824	---	---	4/11/2018	NA	4/20/2020
MW-14	Specific Conductance	10/30/2018	1317	1188.4824	---	---	4/11/2018	NA	4/20/2020
MW-14	Specific Conductance	4/1/2019	1328	1188.4824	---	---	4/11/2018	NA	4/20/2020
MW-14	Specific Conductance	10/8/2019	1338	1188.4824	1258.282	---	4/11/2018	NA	4/20/2020
MW-14	Specific Conductance	4/20/2020	1541	1188.4824	1288.326	---	4/11/2018	NA	4/20/2020
MW-14	Specific Conductance	10/20/2020	1542	1188.4824	1332.939	---	4/11/2018	NA	4/20/2020
MW-14	Specific Conductance	4/26/2021	1570	1188.4824	1404.787	---	4/11/2018	NA	4/20/2020
MW-14	Specific Conductance	8/16/2021	1608	1188.4824	1537.961	---	4/11/2018	NA	4/20/2020
MW-14	Specific Conductance	6/1/2022	1382	1188.4824	1439.403	---	4/11/2018	NA	4/20/2020
MW-14	Specific Conductance	10/3/2022	Dry	1188.4824	1439.403	---	4/11/2018	NA	4/20/2020
MW-14	Specific Conductance	5/3/2023	1501	1188.4824	1429.287	---	4/11/2018	NA	4/20/2020
MW-14	Specific Conductance	10/11/2023	1600	1188.4824	1431.209	---	4/11/2018	NA	4/20/2020
MW-14	TOX	4/11/2018	90.60	11.4	---	---	4/11/2018	NA	6/1/2022
MW-14	TOX	10/30/2018	NT	11.4	---	---	4/11/2018	NA	6/1/2022
MW-14	TOX	4/1/2019	117.00	11.4	---	---	4/11/2018	NA	6/1/2022
MW-14	TOX	10/8/2019	NT	11.4	---	---	4/11/2018	NA	6/1/2022
MW-14	TOX	4/20/2020	85.60	11.4	---	---	4/11/2018	NA	6/1/2022
MW-14	TOX	10/20/2020	NT	11.4	---	---	4/11/2018	NA	6/1/2022
MW-14	TOX	4/26/2021	76.00	11.4	33.446	---	4/11/2018	NA	6/1/2022
MW-14	TOX	8/16/2021	NT	11.4	---	---	4/11/2018	NA	6/1/2022
MW-14	TOX	6/1/2022	76.00	11.4	28.737	---	4/11/2018	NA	6/1/2022
MW-14	TOX	10/3/2022	NT	11.4	---	---	4/11/2018	NA	6/1/2022
MW-14	TOX	5/3/2023	93.00	11.4	29.523	---	4/11/2018	NA	6/1/2022
MW-14	TOX	10/11/2023	NT	11.4	---	---	4/11/2018	NA	6/1/2022

Bold Result = A value that exceeds the GWPS.
Bold GWPS = A Site Specific GWPS that is equal to the Prediction Limit. All other GWPS are IAC 567-137 Statewide Standards for Protected Groundwater.

Table 7

Summary of Ongoing & Newly Identified SSI

Annual Water Quality Report

Plymouth County Sanitary Landfill

Permit No. 75-SDP-01-74P

KEY:

SSI

SSL LCL>GWPS

Note: The absence of shading indicates that the condition does not exist.

Monitoring Well	Compound	Sample Date	Each Result (ug/L)	Prediction Limit (ug/L)	95% LCL (ug/L)	GWPS Limit (ug/L)	SSI Initial Exceedance	Resamples Due	5th Background Sample
MW-16	COD	4/20/2020	<5.0	21.2	---	---	6/1/2022	NA	6/1/2022
MW-16	COD	10/20/2020	8.23	21.2	---	---	6/1/2022	NA	6/1/2022
MW-16	COD	4/26/2021	7.05	21.2	---	---	6/1/2022	NA	6/1/2022
MW-16	COD	8/16/2021	9.89	21.2	4.175	---	6/1/2022	NA	6/1/2022
MW-16	COD	6/1/2022	38.20	21.2	2.895	---	6/1/2022	NA	6/1/2022
MW-16	COD	10/3/2022	50.40	21.2	7.931	---	6/1/2022	NA	6/1/2022
MW-16	COD	5/3/2023	12.10	21.2	10.428	---	6/1/2022	NA	6/1/2022
MW-16	COD	10/11/2023	28.70	21.2	18.355	---	6/1/2022	NA	6/1/2022
MW-16	chloride	4/20/2020	12.00	7.3	---	---	4/20/2020	NA	6/1/2022
MW-16	chloride	10/20/2020	27.80	7.3	---	---	4/20/2020	NA	6/1/2022
MW-16	chloride	4/26/2021	5.50	7.3	---	---	4/20/2020	NA	6/1/2022
MW-16	chloride	8/16/2021	8.80	7.3	4.969	---	4/20/2020	NA	6/1/2022
MW-16	chloride	6/1/2022	9.73	7.3	4.245	---	4/20/2020	NA	6/1/2022
MW-16	chloride	10/3/2022	9.58	7.3	6.690	---	4/20/2020	NA	6/1/2022
MW-16	chloride	5/3/2023	6.95	7.3	7.660	---	4/20/2020	NA	6/1/2022
MW-16	chloride	10/11/2023	7.89	7.3	7.370	---	4/20/2020	NA	6/1/2022
MW-16	Specific Conductance	4/20/2020	1524	1188.4824	---	---	4/20/2020	NA	6/1/2022
MW-16	Specific Conductance	10/20/2020	1680	1188.4824	---	---	4/20/2020	NA	6/1/2022
MW-16	Specific Conductance	4/26/2021	1436	1188.4824	---	---	4/20/2020	NA	6/1/2022
MW-16	Specific Conductance	8/16/2021	1382	1188.4824	1392.723	---	4/20/2020	NA	6/1/2022
MW-16	Specific Conductance	6/1/2022	1103	1188.4824	1195.172	---	4/20/2020	NA	6/1/2022
MW-16	Specific Conductance	10/3/2022	1134	1188.4824	1116.841	---	4/20/2020	NA	6/1/2022
MW-16	Specific Conductance	5/3/2023	1319	1188.4824	1115.873	---	4/20/2020	NA	6/1/2022
MW-16	Specific Conductance	10/11/2023	1432	1188.4824	1111.987	---	4/20/2020	NA	6/1/2022

Bold Result = A value that exceeds the GWPS.

Bold GWPS = A Site Specific GWPS that is equal to the Prediction Limit. All other GWPS are IAC 567-137 Statewide Standards for Protected Groundwater.

Table 8 - Summary of Ongoing of Identified SSL

Table 8

Summary of Ongoing & Newly Identified SSL

Annual Water Quality Report

Plymouth County Sanitary Landfill

Permit No. 75-SDP-01-74P

KEY:

SSI

SSL UCL>GWPS

Note: The absence of shading indicates that the condition does not exist.

Monitoring Well	Compound	Sample Date	Each Result (ug/L)	95% UCL (ug/L)	GWPS Limit (ug/L)	SSL Initial Exceedance	Compliance Date 1st Occurrence	Compliance Date Most Recent	Compliance Date Duration (years)
MW-7	1,2-dichloroethane	4/11/2018	<1.0	0.500	5	NA	NA	NA	NA
MW-7	1,2-dichloroethane	10/30/2018	<1.0	0.500	5	NA	NA	NA	NA
MW-7	1,2-dichloroethane	4/1/2019	<1.0	0.500	5	NA	NA	NA	NA
MW-7	1,2-dichloroethane	10/8/2019	<1.0	0.500	5	NA	NA	NA	NA
MW-7	1,2-dichloroethane	4/20/2020	<1.0	0.500	5	NA	NA	NA	NA
MW-7	1,2-dichloroethane	10/20/2020	<1.0	0.500	5	NA	NA	NA	NA
MW-7	1,2-dichloroethane	4/26/2021	<1.0	0.500	5	NA	NA	NA	NA
MW-7	1,2-dichloroethane	8/16/2021	<1.0	0.500	5	NA	NA	NA	NA
MW-7	1,2-dichloroethane	6/1/2022	<1.0	0.500	5	NA	NA	NA	NA
MW-7	1,2-dichloroethane	10/3/2022	<1.0	0.500	5	NA	NA	NA	NA
MW-7	1,2-dichloroethane	5/3/2023	<1.0	0.500	5	NA	NA	NA	NA
MW-7	1,2-dichloroethane	10/11/2023	1.29	1.162	5	NA	NA	NA	NA
MW-7	1,2-dichloropropane	4/11/2018	9.81	---	5	10/8/2019	NA	NA	NA
MW-7	1,2-dichloropropane	10/30/2018	8.62	---	5	10/8/2019	NA	NA	NA
MW-7	1,2-dichloropropane	4/1/2019	5.10	---	5	10/8/2019	NA	NA	NA
MW-7	1,2-dichloropropane	10/8/2019	7.25	9.446	5	10/8/2019	NA	NA	NA
MW-7	1,2-dichloropropane	4/20/2020	10.00	9.552	5	10/8/2019	NA	NA	NA
MW-7	1,2-dichloropropane	10/20/2020	9.41	9.873	5	10/8/2019	NA	NA	NA
MW-7	1,2-dichloropropane	4/26/2021	7.34	9.723	5	10/8/2019	NA	NA	NA
MW-7	1,2-dichloropropane	8/16/2021	13.50	12.279	5	10/8/2019	NA	NA	NA
MW-7	1,2-dichloropropane	6/1/2022	10.60	12.440	5	10/8/2019	NA	NA	NA
MW-7	1,2-dichloropropane	10/3/2022	11.80	13.063	5	10/8/2019	NA	NA	NA
MW-7	1,2-dichloropropane	5/3/2023	12.50	13.534	5	10/8/2019	NA	NA	NA
MW-7	1,2-dichloropropane	10/11/2023	12.90	13.136	5	10/8/2019	NA	NA	NA
MW-7	benzene	4/11/2018	0.958	---	5	NA	NA	NA	NA
MW-7	benzene	10/30/2018	0.896	---	5	NA	NA	NA	NA
MW-7	benzene	4/1/2019	0.580	---	5	NA	NA	NA	NA
MW-7	benzene	10/8/2019	0.655	0.931	5	NA	NA	NA	NA
MW-7	benzene	4/20/2020	0.813	0.861	5	NA	NA	NA	NA
MW-7	benzene	10/20/2020	0.949	0.892	5	NA	NA	NA	NA
MW-7	benzene	4/26/2021	<0.500	0.929	5	NA	NA	NA	NA
MW-7	benzene	8/16/2021	0.783	0.965	5	NA	NA	NA	NA
MW-7	benzene	6/1/2022	<0.500	0.872	5	NA	NA	NA	NA
MW-7	benzene	10/3/2022	<0.500	0.614	5	NA	NA	NA	NA
MW-7	benzene	5/3/2023	0.716	0.840	5	NA	NA	NA	NA
MW-7	benzene	10/11/2023	0.878	0.903	5	NA	NA	NA	NA
MW-7	cis-1,2-dichloroethylene	4/11/2018	152.00	---	70	10/8/2019	NA	NA	NA
MW-7	cis-1,2-dichloroethylene	10/30/2018	113.00	---	70	10/8/2019	NA	NA	NA
MW-7	cis-1,2-dichloroethylene	4/1/2019	66.30	---	70	10/8/2019	NA	NA	NA
MW-7	cis-1,2-dichloroethylene	10/8/2019	117.00	142.548	70	10/8/2019	NA	NA	NA
MW-7	cis-1,2-dichloroethylene	4/20/2020	193.00	167.737	70	10/8/2019	NA	NA	NA
MW-7	cis-1,2-dichloroethylene	10/20/2020	198.00	198.535	70	10/8/2019	NA	NA	NA
MW-7	cis-1,2-dichloroethylene	4/26/2021	112.00	195.577	70	10/8/2019	NA	NA	NA
MW-7	cis-1,2-dichloroethylene	8/16/2021	240.00	232.077	70	10/8/2019	NA	NA	NA
MW-7	cis-1,2-dichloroethylene	6/1/2022	147.00	222.996	70	10/8/2019	NA	NA	NA
MW-7	cis-1,2-dichloroethylene	10/3/2022	168.00	213.533	70	10/8/2019	NA	NA	NA
MW-7	cis-1,2-dichloroethylene	5/3/2023	174.00	229.540	70	10/8/2019	NA	NA	NA
MW-7	cis-1,2-dichloroethylene	10/11/2023	203.00	200.182	70	10/8/2019	NA	NA	NA
MW-7	PCE	4/11/2018	3.15	---	5	NA	NA	NA	NA
MW-7	PCE	10/30/2018	2.12	---	5	NA	NA	NA	NA
MW-7	PCE	4/1/2019	2.85	---	5	NA	NA	NA	NA
MW-7	PCE	10/8/2019	1.23	3.079	5	NA	NA	NA	NA
MW-7	PCE	4/20/2020	1.90	2.603	5	NA	NA	NA	NA
MW-7	PCE	10/20/2020	<1.0	2.486	5	NA	NA	NA	NA
MW-7	PCE	4/26/2021	1.66	1.855	5	NA	NA	NA	NA
MW-7	PCE	8/16/2021	5.30	4.129	5	NA	NA	NA	NA
MW-7	PCE	6/1/2022	2.89	4.367	5	NA	NA	NA	NA
MW-7	PCE	10/3/2022	2.69	4.469	5	NA	NA	NA	NA
MW-7	PCE	5/3/2023	2.67	4.892	5	NA	NA	NA	NA
MW-7	PCE	10/11/2023	1.75	3.100	5	NA	NA	NA	NA
MW-7	TCE	4/11/2018	11.10	---	5	10/8/2019	NA	NA	NA
MW-7	TCE	10/30/2018	10.30	---	5	10/8/2019	NA	NA	NA
MW-7	TCE	4/1/2019	5.36	---	5	10/8/2019	NA	NA	NA
MW-7	TCE	10/8/2019	6.71	10.765	5	10/8/2019	NA	NA	NA
MW-7	TCE	4/20/2020	20.40	16.581	5	10/8/2019	NA	NA	NA
MW-7	TCE	10/20/2020	17.30	18.961	5	10/8/2019	NA	NA	NA
MW-7	TCE	4/26/2021	10.00	19.088	5	10/8/2019	NA	NA	NA
MW-7	TCE	8/16/2021	12.30	19.085	5	10/8/2019	NA	NA	NA
MW-7	TCE	6/1/2022	7.03	15.413	5	10/8/2019	NA	NA	NA
MW-7	TCE	10/3/2022	6.27	11.307	5	10/8/2019	NA	NA	NA
MW-7	TCE	5/3/2023	7.50	11.487	5	10/8/2019	NA	NA	NA
MW-7	TCE	10/11/2023	9.37	9.095	5	10/8/2019	NA	NA	NA
MW-7	Vinyl Chloride	4/11/2018	1.87	---	2	NA	NA	NA	NA
MW-7	Vinyl Chloride	10/30/2018	1.98	---	2	NA	NA	NA	NA
MW-7	Vinyl Chloride	4/1/2019	<1.0	---	2	NA	NA	NA	NA
MW-7	Vinyl Chloride	10/8/2019	1.45	2.033	2	NA	NA	NA	NA
MW-7	Vinyl Chloride	4/20/2020	3.15	2.727	2	NA	NA	NA	NA
MW-7	Vinyl Chloride	10/20/2020	3.48	3.368	2	NA	NA	NA	NA
MW-7	Vinyl Chloride	4/26/2021	1.02	3.333	2	NA	NA	NA	NA
MW-7	Vinyl Chloride	8/16/2021	2.84	3.575	2	NA	NA	NA	NA
MW-7	Vinyl Chloride	6/1/2022	1.47	3.199	2	NA	NA	NA	NA
MW-7	Vinyl Chloride	10/3/2022	1.38	2.370	2	NA	NA	NA	NA
MW-7	Vinyl Chloride	5/3/2023	3.11	3.261	2	NA	NA	NA	NA
MW-7	Vinyl Chloride	10/11/2023	4.28	4.201	2	NA	NA	NA	NA
MW-7						NA	NA	NA	NA

Bold Result = A value that exceeds the GWPS.

Bold GWPS = A Site Specific GWPS that is equal to the Prediction Limit. All other GWPS are IAC 567-137 Statewide Standards for Protected Groundwater.

Table 8
Summary of Ongoing & Newly Identified SSL
Annual Water Quality Report
Plymouth County Sanitary Landfill
Permit No. 75-SDP-01-74P

KEY:	SSI	SSL UCL>GWPS
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Note: The absence of shading indicates that the condition does not exist.

Monitoring Well	Compound	Sample Date	Each Result (ug/L)	95% UCL (ug/L)	GWPS Limit (ug/L)	SSL Initial Exceedance	Compliance Date 1st Occurrence	Compliance Date Most Recent	Compliance Date Duration (years)
MW-8	1,2-dichloropropane	4/11/2018	1.43	---	5	NA	NA	NA	NA
MW-8	1,2-dichloropropane	10/30/2018	1.27	---	5	NA	NA	NA	NA
MW-8	1,2-dichloropropane	4/1/2019	1.21	---	5	NA	NA	NA	NA
MW-8	1,2-dichloropropane	10/8/2019	1.57	1.511	5	NA	NA	NA	NA
MW-8	1,2-dichloropropane	5/28/2020	1.43	1.511	5	NA	NA	NA	NA
MW-8	1,2-dichloropropane	10/20/2020	1.29	1.512	5	NA	NA	NA	NA
MW-8	1,2-dichloropropane	4/26/2021	1.26	1.511	5	NA	NA	NA	NA
MW-8	1,2-dichloropropane	8/16/2021	1.52	1.480	5	NA	NA	NA	NA
MW-8	1,2-dichloropropane	6/1/2022	1.21	1.439	5	NA	NA	NA	NA
MW-8	1,2-dichloropropane	10/3/2022	1.01	1.432	5	NA	NA	NA	NA
MW-8	1,2-dichloropropane	5/3/2023	1.16	1.477	5	NA	NA	NA	NA
MW-8	1,2-dichloropropane	10/11/2023	<1.0	1.352	5	NA	NA	NA	NA
MW-8	benzene	4/11/2018	<0.5	---	5	NA	NA	NA	NA
MW-8	benzene	10/30/2018	<0.5	---	5	NA	NA	NA	NA
MW-8	benzene	4/1/2019	0.632	---	5	NA	NA	NA	NA
MW-8	benzene	10/8/2019	0.858	0.758	5	NA	NA	NA	NA
MW-8	benzene	4/20/2020	<0.5	0.758	5	NA	NA	NA	NA
MW-8	benzene	10/20/2020	<0.5	0.758	5	NA	NA	NA	NA
MW-8	benzene	4/26/2021	<0.5	0.665	5	NA	NA	NA	NA
MW-8	benzene	8/16/2021	<0.5	0.250	5	NA	NA	NA	NA
MW-8	benzene	6/1/2022	<0.5	0.250	5	NA	NA	NA	NA
MW-8	benzene	10/3/2022	<0.5	0.250	5	NA	NA	NA	NA
MW-8	benzene	5/3/2023	<0.5	0.250	5	NA	NA	NA	NA
MW-8	benzene	10/11/2023	<0.5	0.250	5	NA	NA	NA	NA
MW-8	cis-1,2-dichloroethylene	4/11/2018	80.80	---	70	10/8/2019	NA	NA	NA
MW-8	cis-1,2-dichloroethylene	10/30/2018	82.60	---	70	10/8/2019	NA	NA	NA
MW-8	cis-1,2-dichloroethylene	4/1/2019	75.70	---	70	10/8/2019	NA	NA	NA
MW-8	cis-1,2-dichloroethylene	10/8/2019	85.80	84.883	70	10/8/2019	NA	NA	NA
MW-8	cis-1,2-dichloroethylene	4/20/2020	1.21	96.228	70	10/8/2019	NA	NA	NA
MW-8	cis-1,2-dichloroethylene	5/28/2020	57.10	87.644	70	10/8/2019	NA	NA	NA
MW-8	cis-1,2-dichloroethylene	10/20/2020	76.40	87.931	70	10/8/2019	NA	NA	NA
MW-8	cis-1,2-dichloroethylene	4/26/2021	61.20	77.478	70	10/8/2019	NA	NA	NA
MW-8	cis-1,2-dichloroethylene	8/16/2021	85.90	81.742	70	10/8/2019	NA	NA	NA
MW-8	cis-1,2-dichloroethylene	6/1/2022	59.40	81.696	70	10/8/2019	NA	NA	NA
MW-8	cis-1,2-dichloroethylene	10/3/2022	50.20	77.394	70	10/8/2019	NA	NA	NA
MW-8	cis-1,2-dichloroethylene	5/3/2023	53.80	81.341	70	10/8/2019	NA	NA	NA
MW-8	cis-1,2-dichloroethylene	10/11/2023	45.70	59.088	70	10/8/2019	NA	NA	NA
MW-8	TCE	4/11/2018	<1.0	---	5	NA	NA	NA	NA
MW-8	TCE	10/30/2018	<1.0	---	5	NA	NA	NA	NA
MW-8	TCE	4/1/2019	<1.0	---	5	NA	NA	NA	NA
MW-8	TCE	10/8/2019	<1.0	0.500	5	NA	NA	NA	NA
MW-8	TCE	4/20/2020	<1.0	0.500	5	NA	NA	NA	NA
MW-8	TCE	10/20/2020	<1.0	0.500	5	NA	NA	NA	NA
MW-8	TCE	4/26/2021	<1.0	0.500	5	NA	NA	NA	NA
MW-8	TCE	8/16/2021	<1.0	0.500	5	NA	NA	NA	NA
MW-8	TCE	6/1/2022	<1.0	0.500	5	NA	NA	NA	NA
MW-8	TCE	10/3/2022	<1.0	0.500	5	NA	NA	NA	NA
MW-8	TCE	5/3/2023	1.13	1.028	5	NA	NA	NA	NA
MW-8	TCE	10/11/2023	<1.0	1.028	5	NA	NA	NA	NA
MW-8	vinyl chloride	4/11/2018	2.74	---	2	NA	NA	NA	NA
MW-8	vinyl chloride	10/30/2018	2.18	---	2	NA	NA	NA	NA
MW-8	vinyl chloride	4/1/2019	5.33	---	2	NA	NA	NA	NA
MW-8	vinyl chloride	10/8/2019	7.13	6.344	2	NA	NA	NA	NA
MW-8	vinyl chloride	4/20/2020	1.73	6.328	2	NA	NA	NA	NA
MW-8	vinyl chloride	10/20/2020	3.25	6.407	2	NA	NA	NA	NA
MW-8	vinyl chloride	4/26/2021	2.16	5.698	2	NA	NA	NA	NA
MW-8	vinyl chloride	8/16/2021	2.40	2.939	2	NA	NA	NA	NA
MW-8	vinyl chloride	6/1/2022	2.72	3.041	2	NA	NA	NA	NA
MW-8	vinyl chloride	10/3/2022	1.62	2.627	2	NA	NA	NA	NA
MW-8	vinyl chloride	5/3/2023	2.16	2.771	2	NA	NA	NA	NA
MW-8	vinyl chloride	10/11/2023	1.03	2.735	2	NA	NA	NA	NA
MW-8	chloride	4/11/2018	16.40	---	---	NA	NA	NA	NA
MW-8	chloride	10/30/2018	35.60	---	---	NA	NA	NA	NA
MW-8	chloride	4/1/2019	30.30	---	---	NA	NA	NA	NA
MW-8	chloride	10/8/2019	26.30	34.179	---	NA	NA	NA	NA
MW-8	chloride	4/20/2020	21.70	33.592	---	NA	NA	NA	NA
MW-8	chloride	10/20/2020	21.70	28.590	---	NA	NA	NA	NA
MW-8	chloride	4/26/2021	16.30	25.041	---	NA	NA	NA	NA
MW-8	chloride	8/16/2021	15.60	21.711	---	NA	NA	NA	NA
MW-8	chloride	6/1/2022	13.10	19.811	---	NA	NA	NA	NA
MW-8	chloride	10/3/2022	12.80	15.974	---	NA	NA	NA	NA
MW-8	chloride	5/3/2023	12.90	14.760	---	NA	NA	NA	NA
MW-8	chloride	10/11/2023	12.70	13.023	---	NA	NA	NA	NA
MW-8	Specific Conductance	4/11/2018	1232	---	---	NA	NA	NA	NA
MW-8	Specific Conductance	10/30/2018	1473	---	---	NA	NA	NA	NA
MW-8	Specific Conductance	4/1/2019	1507	---	---	NA	NA	NA	NA
MW-8	Specific Conductance	10/8/2019	1564	1570.643	---	NA	NA	NA	NA
MW-8	Specific Conductance	4/20/2020	1622	1598.221	---	NA	NA	NA	NA
MW-8	Specific Conductance	10/20/2020	1557	1603.283	---	NA	NA	NA	NA
MW-8	Specific Conductance	4/26/2021	1618	1620.136	---	NA	NA	NA	NA
MW-8	Specific Conductance	8/16/2021	1834	1762.718	---	NA	NA	NA	NA
MW-8	Specific Conductance	6/1/2022	1466	1754.285	---	NA	NA	NA	NA
MW-8	Specific Conductance	10/3/2022	1456	1746.473	---	NA	NA	NA	NA
MW-8	Specific Conductance	5/3/2023	1390	1710.726	---	NA	NA	NA	NA
MW-8	Specific Conductance	10/11/2023	1393	1461.196	---	NA	NA	NA	NA
MW-8	TOX	4/11/2018	82.00	---	---	NA	NA	NA	NA
MW-8	TOX	10/30/2018	NT	---	---	NA	NA	NA	NA
MW-8	TOX	4/1/2019	76.50	---	---	NA	NA	NA	NA
MW-8	TOX	10/8/2019	NT	---	---	NA	NA	NA	NA
MW-8	TOX	4/20/2020	<40	---	---	NA	NA	NA	NA
MW-8	TOX	10/20/2020	NT	---	---	NA	NA	NA	NA
MW-8	TOX	4/26/2021	53.00	82.304	---	NA	NA	NA	NA
MW-8	TOX	8/16/2021	NT	---	---	NA	NA	NA	NA
MW-8	TOX	6/1/2022	46.00	69.013	---	NA	NA	NA	NA
MW-8	TOX	10/3/2022	NT	---	---	NA	NA	NA	NA
MW-8	TOX	5/3/2023	65.00	62.477	---	NA	NA	NA	NA
MW-8	TOX	10/11/2023	NT	---	---	NA	NA	NA	NA

Bold Result = A value that exceeds the GWPS.
Bold GWPS = A Site Specific GWPS that is equal to the Prediction Limit. All other GWPS are IAC 567-137 Statewide Standards for Protected Groundwater.

Table 8

Summary of Ongoing & Newly Identified SSL

Annual Water Quality Report

Plymouth County Sanitary Landfill

Permit No. 75-SDP-01-74P

KEY:

SSI

SSL UCL>GWPS

Note: The absence of shading indicates that the condition does not exist.

Monitoring Well	Compound	Sample Date	Each Result (ug/L)	95% UCL (ug/L)	GWPS Limit (ug/L)	SSL Initial Exceedance	Compliance Date 1st Occurrence	Compliance Date Most Recent	Compliance Date Duration (years)
MW-12	benzene	4/11/2018	1.610	---	5	NA	NA	NA	NA
MW-12	benzene	10/30/2018	1.520	---	5	NA	NA	NA	NA
MW-12	benzene	4/1/2019	1.450	---	5	NA	NA	NA	NA
MW-12	benzene	10/8/2019	1.870	1.772	5	NA	NA	NA	NA
MW-12	benzene	4/20/2020	1.860	1.867	5	NA	NA	NA	NA
MW-12	benzene	10/20/2020	2.010	2.007	5	NA	NA	NA	NA
MW-12	benzene	4/26/2021	1.840	1.962	5	NA	NA	NA	NA
MW-12	benzene	8/16/2021	1.950	1.984	5	NA	NA	NA	NA
MW-12	benzene	6/1/2022	0.784	2.147	5	NA	NA	NA	NA
MW-12	benzene	10/3/2022	1.460	1.965	5	NA	NA	NA	NA
MW-12	benzene	5/3/2023	1.270	1.933	5	NA	NA	NA	NA
MW-12	benzene	10/11/2023	1.160	1.503	5	NA	NA	NA	NA
MW-12	cis-1,2-dichloroethylene	4/11/2018	50.40	---	70	NA	NA	NA	NA
MW-12	cis-1,2-dichloroethylene	10/30/2018	29.60	---	70	NA	NA	NA	NA
MW-12	cis-1,2-dichloroethylene	4/1/2019	34.30	---	70	NA	NA	NA	NA
MW-12	cis-1,2-dichloroethylene	10/8/2019	47.30	49.081	70	NA	NA	NA	NA
MW-12	cis-1,2-dichloroethylene	4/20/2020	52.40	50.180	70	NA	NA	NA	NA
MW-12	cis-1,2-dichloroethylene	10/20/2020	55.10	55.273	70	NA	NA	NA	NA
MW-12	cis-1,2-dichloroethylene	4/26/2021	49.00	53.969	70	NA	NA	NA	NA
MW-12	cis-1,2-dichloroethylene	8/16/2021	64.70	61.142	70	NA	NA	NA	NA
MW-12	cis-1,2-dichloroethylene	6/1/2022	31.00	62.239	70	NA	NA	NA	NA
MW-12	cis-1,2-dichloroethylene	10/3/2022	35.20	58.167	70	NA	NA	NA	NA
MW-12	cis-1,2-dichloroethylene	5/3/2023	31.90	59.640	70	NA	NA	NA	NA
MW-12	cis-1,2-dichloroethylene	10/11/2023	31.30	34.628	70	NA	NA	NA	NA
MW-12	TCE	4/11/2018	1.23	---	5	NA	NA	NA	NA
MW-12	TCE	10/30/2018	<1.0	---	5	NA	NA	NA	NA
MW-12	TCE	4/1/2019	1.18	---	5	NA	NA	NA	NA
MW-12	TCE	10/8/2019	<1.0	1.205	5	NA	NA	NA	NA
MW-12	TCE	4/20/2020	<1.0	0.964	5	NA	NA	NA	NA
MW-12	TCE	10/20/2020	1.54	1.378	5	NA	NA	NA	NA
MW-12	TCE	4/26/2021	<1.0	1.210	5	NA	NA	NA	NA
MW-12	TCE	8/16/2021	<1.0	1.210	5	NA	NA	NA	NA
MW-12	TCE	6/1/2022	<1.0	1.210	5	NA	NA	NA	NA
MW-12	TCE	10/3/2022	<1.0	0.500	5	NA	NA	NA	NA
MW-12	TCE	5/3/2023	<1.0	0.500	5	NA	NA	NA	NA
MW-12	TCE	10/11/2023	<1.0	0.500	5	NA	NA	NA	NA
MW-12	vinyl chloride	4/11/2018	4.48	---	2	10/8/2019	NA	NA	NA
MW-12	vinyl chloride	10/30/2018	9.14	---	2	10/8/2019	NA	NA	NA
MW-12	vinyl chloride	4/1/2019	8.96	---	2	10/8/2019	NA	NA	NA
MW-12	vinyl chloride	10/8/2019	6.50	9.189	2	10/8/2019	NA	NA	NA
MW-12	vinyl chloride	4/20/2020	4.90	9.144	2	10/8/2019	NA	NA	NA
MW-12	vinyl chloride	10/20/2020	5.41	8.007	2	10/8/2019	NA	NA	NA
MW-12	vinyl chloride	4/26/2021	3.57	6.148	2	10/8/2019	NA	NA	NA
MW-12	vinyl chloride	8/16/2021	4.08	5.202	2	10/8/2019	NA	NA	NA
MW-12	vinyl chloride	6/1/2022	1.56	5.039	2	10/8/2019	NA	NA	NA
MW-12	vinyl chloride	10/3/2022	7.15	6.092	2	10/8/2019	NA	NA	NA
MW-12	vinyl chloride	5/3/2023	4.19	6.934	2	10/8/2019	NA	NA	NA
MW-12	vinyl chloride	10/11/2023	3.56	6.836	2	10/8/2019	NA	NA	NA
MW-12	chloride	4/11/2018	15.20	---	---	NA	NA	NA	NA
MW-12	chloride	10/30/2018	42.60	---	---	NA	NA	NA	NA
MW-12	chloride	4/1/2019	31.50	---	---	NA	NA	NA	NA
MW-12	chloride	10/8/2019	12.00	37.741	---	NA	NA	NA	NA
MW-12	chloride	4/20/2020	11.20	37.644	---	NA	NA	NA	NA
MW-12	chloride	10/20/2020	12.30	25.275	---	NA	NA	NA	NA
MW-12	chloride	4/26/2021	9.32	12.365	---	NA	NA	NA	NA
MW-12	chloride	8/16/2021	12.50	12.592	---	NA	NA	NA	NA
MW-12	chloride	6/1/2022	32.00	25.550	---	NA	NA	NA	NA
MW-12	chloride	10/3/2022	21.70	27.714	---	NA	NA	NA	NA
MW-12	chloride	5/3/2023	29.10	31.365	---	NA	NA	NA	NA
MW-12	chloride	10/11/2023	34.00	33.867	---	NA	NA	NA	NA
MW-12	iron	4/11/2018	22900.00	---	---	NA	NA	NA	NA
MW-12	iron	10/30/2018	27900.00	---	---	NA	NA	NA	NA
MW-12	iron	4/1/2019	20200.00	---	---	NA	NA	NA	NA
MW-12	iron	10/8/2019	27400.00	27800.780	---	NA	NA	NA	NA
MW-12	iron	4/20/2020	24800.00	28125.720	---	NA	NA	NA	NA
MW-12	iron	10/20/2020	19400.00	26243.550	---	NA	NA	NA	NA
MW-12	iron	4/26/2021	27800.00	28200.750	---	NA	NA	NA	NA
MW-12	iron	8/16/2021	29900.00	29423.020	---	NA	NA	NA	NA
MW-12	iron	6/1/2022	25300.00	29532.560	---	NA	NA	NA	NA
MW-12	iron	10/3/2022	9460.00	31165.140	---	NA	NA	NA	NA
MW-12	iron	5/3/2023	10800.00	27762.730	---	NA	NA	NA	NA
MW-12	iron	10/11/2023	7290.00	20302.723	---	NA	NA	NA	NA
MW-12	Specific Conductance	4/11/2018	1304	---	---	NA	NA	NA	NA
MW-12	Specific Conductance	10/30/2018	1556	---	---	NA	NA	NA	NA
MW-12	Specific Conductance	4/1/2019	1399	---	---	NA	NA	NA	NA
MW-12	Specific Conductance	10/8/2019	1499	1535.824	---	NA	NA	NA	NA
MW-12	Specific Conductance	4/20/2020	1386	1530.594	---	NA	NA	NA	NA
MW-12	Specific Conductance	10/20/2020	1684	1611.162	---	NA	NA	NA	NA
MW-12	Specific Conductance	4/26/2021	1637	1668.774	---	NA	NA	NA	NA
MW-12	Specific Conductance	8/16/2021	1754	1754.000	---	NA	NA	NA	NA
MW-12	Specific Conductance	6/1/2022	1371	1756.459	---	NA	NA	NA	NA
MW-12	Specific Conductance	10/3/2022	1494	1708.549	---	NA	NA	NA	NA
MW-12	Specific Conductance	5/3/2023	1481	1665.583	---	NA	NA	NA	NA
MW-12	Specific Conductance	10/11/2023	1422	1491.158	---	NA	NA	NA	NA
MW-12	TOX	4/11/2018	41.90	---	---	NA	NA	NA	NA
MW-12	TOX	10/30/2018	NT	---	---	NA	NA	NA	NA
MW-12	TOX	4/1/2019	37.40	---	---	NA	NA	NA	NA
MW-12	TOX	10/8/2019	NT	---	---	NA	NA	NA	NA
MW-12	TOX	4/20/2020	<40	---	---	NA	NA	NA	NA
MW-12	TOX	10/20/2020	NT	---	---	NA	NA	NA	NA
MW-12	TOX	4/26/2021	42.00	44.366	---	NA	NA	NA	NA
MW-12	TOX	8/16/2021	NT	---	---	NA	NA	NA	NA
MW-12	TOX	6/1/2022	48.00	47.279	---	NA	NA	NA	NA
MW-12	TOX	10/3/2022	NT	---	---	NA	NA	NA	NA
MW-12	TOX	5/3/2023	47.00	50.594	---	NA	NA	NA	NA
MW-12	TOX	10/11/2023	NT	---	---	NA	NA	NA	NA

Bold Result = A value that exceeds the GWPS.

Bold GWPS = A Site Specific GWPS that is equal to the Prediction Limit. All other GWPS are IAC 567-137 Statewide Standards for Protected Groundwater.

Table 9 – Analytical Data Summary

Table 1

Analytical Data Summary for MW-10

Constituents	Units	8/9/1996	10/10/1996	1/21/1997	4/17/1997	10/4/1997	4/22/1998	10/19/1998	4/30/1999	9/1/1999	4/12/2000	10/17/2000	4/25/2001
1,1,1-Trichloroethane	ug/L	<1	<1	<1	<1								
1,1-Dichloroethene	ug/L	<1	<1	<2	<2								
1,2-Dichloroethane	ug/L	<1.0	<.4	<.4	<.4							<.4	<.4
1,2-Dichloropropane	ug/L												
Ammonia as N	mg/L	1.1	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
Benzene	ug/L	<1.0	<1.0	<.5	<.5							<.5	<.5
Chemical Oxygen Demand	mg/L	140.0	<5.0	5.7	<5.0	<5.0	<5.0	<5.0	63.0	<5.0	<5.0	<5.0	<5.0
Chloride	mg/L	13.0	14.0	15.0	22.0	19.0	19.6	20.0	21.0	21.0	18.6	19.7	16.7
Chlorodibromomethane	ug/L												
cis-1,2-Dichloroethene	ug/L												
Iron, Dissolved	mg/L	<.10	<.10	<.10	.15	<.10	<.10	<.10	<.10	<.10	<.10	<.10	<.10
Methylene Chloride	ug/L												
pH	S.U.	8.10	6.70	6.80	6.50	6.50	6.40	6.50	6.40	6.30	6.30	6.40	7.00
Phenols	mg/L					.0300		<.0200		<.0200		<.0200	
Specific Conductance	umhos/cm	787	695	625	724	644	684	742	713	774	700	729	570
Tetrachloroethene	ug/L												
Total Organic Halogens	ug/L					12.0		19.0				11.0	
Trichloroethene	ug/L	<1	<1	<2	<1							<1	<1
Vinyl Chloride	ug/L												

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

Table 1

Analytical Data Summary for MW-10

Constituents	10/23/2001	4/28/2002	10/6/2002	4/3/2003	10/7/2003	4/30/2004	10/12/2004	4/26/2005	10/11/2005	4/26/2006	10/5/2006	4/23/2007	10/9/2007
1,1,1-Trichloroethane					<2								
1,1-Dichloroethene					<.4								
1,2-Dichloroethane	<.4												
1,2-Dichloropropane													
Ammonia as N	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
Benzene	<.5				<.5								
Chemical Oxygen Demand	<5.0	5.7	6.9	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	11.3	12.1	8.0
Chloride	18.6	17.9	17.8	23.0	23.6	24.0	26.2	28.1	28.7	26.2	25.1	28.8	31.1
Chlorodibromomethane													
cis-1,2-Dichloroethene													
Iron, Dissolved	<.10	<.10	<.10	<.10	<.10	<.10	<.10	<.10	<.10	<.10	<.10	<.10	<.10
Methylene Chloride													
pH	6.90	6.50	7.10	7.00	7.30	6.60	7.00	6.80	6.70	6.90	7.00	7.00	7.50
Phenols	<.0200	.0100	<.0200	<.0200		<.0200		<.0200		<.0434		<.0200	
Specific Conductance	740	463	645	753	550	693	532	575	1051	879	972	943	1062
Tetrachloroethene													
Total Organic Halogens	<10.0	5.0	12.0	<10.0		<10.0		<10.0		<10.0		<10.0	
Trichloroethene	<1				<1								
Vinyl Chloride													

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

Table 1

Analytical Data Summary for MW-10

Constituents	4/7/2008	10/14/2008	4/7/2009	10/5/2009	4/1/2010	10/1/2010	4/7/2011	10/27/2011	4/23/2012	10/23/2012	4/16/2013	10/28/2013	4/24/2014
1,1,1-Trichloroethane								<1			<1	<1	<1
1,1-Dichloroethene													
1,2-Dichloroethane								<1.0			<1.0	<1.0	<1.0
1,2-Dichloropropane								<1			<1	<1	<1
Ammonia as N	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
Benzene								<.5			<.5	<.5	<.5
Chemical Oxygen Demand	<5.0	11.4	10.4	<5.0	9.6	21.8	9.1	26.7	<5.0	43.2	12.2	62.1	6.7
Chloride	33.9	35.4	37.4	39.6	50.8	52.4	51.8	65.7	56.1	46.7	47.0	58.5	55.4
Chlorodibromomethane								<5			<5	<5	<5
cis-1,2-Dichloroethene								3.59			4.18	3.16	2.79
Iron, Dissolved	<.10	<.10	<.10	<.10	<.10	<.10	<.10	<.10	<.10	<.10	<.10	<.10	<.10
Methylene Chloride								<5			<5	<5	<5
pH	6.90	6.70	6.90	7.00	6.80	6.80	6.60	6.80	6.70	6.80	6.90	6.90	6.90
Phenols	<.0200		<.0180		<.0180		<.0180		<.0200		<.0200		<.0200
Specific Conductance	1199	1069	982	973	1045	1100	1014	1141	1075	1258	1166	1297	1248
Tetrachloroethene								<1			<1	<1	<1
Total Organic Halogens	11.9		<10.0		16.1		28.0		20.3		<30.0		<30.0
Trichloroethene								<1			<1	<1	<1
Vinyl Chloride								<1			<1	<1	<1

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

Table 1

Analytical Data Summary for MW-10

Constituents	10/6/2014	4/21/2015	10/5/2015	4/26/2016	10/5/2016	4/4/2017	10/10/2017	4/11/2018	10/30/2018	4/1/2019	10/8/2019	4/20/2020	10/20/2020
1,1,1-Trichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1				
1,1-Dichloroethene													
1,2-Dichloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0				
1,2-Dichloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ammonia as N	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
Benzene	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5
Chemical Oxygen Demand	15.8	12.5	18.9	24.6	41.8	<5.0	12.1	21.4	55.1	37.8	44.5	53.4	64.2
Chloride	69.7	81.8	80.2	101.0	179.0	112.0	85.4	102.0	140.0	372.0	196.0	295.0	269.0
Chlorodibromomethane	<5	<5	<5	<5	<5	<5	<5	<5	<5				
cis-1,2-Dichloroethene	1.06	3.37	2.49	<1.00	1.01	1.86	3.00	2.37	<1.00	<1.00	<1.00	5.16	2.39
Iron, Dissolved	<.10	<.10	<.10	<.10	<.10	<.50	<.50	<.50	<.50	<.50	<.50	<.50	<.50
Methylene Chloride	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
pH	6.90	6.90	6.80	7.00	6.50	6.72	6.78	5.74	6.80	6.84	6.67	6.73	7.04
Phenols		<.0188		<.0188		<.0192		<.0180		<.0200		<.0200	
Specific Conductance	1394	1374	1394	1241	1785	1325	1146	1200	1776	1890	1855	1861	2520
Tetrachloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total Organic Halogens		<30.0		<30.0		52.4		50.0		64.2		<40.0	
Trichloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1

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

Table 1

Analytical Data Summary for MW-10

Constituents	4/26/2021	8/16/2021	6/1/2022	5/3/2023
1,1,1-Trichloroethane			<1	
1,1-Dichloroethene				
1,2-Dichloroethane			<1.0	
1,2-Dichloropropane	<1	<1	<1	<1
Ammonia as N	<.2	<.2	<.2	<.2
Benzene	<.5	<.5	<.5	<.5
Chemical Oxygen Demand	66.8	28.6	36.2	26.6
Chloride	392.0	115.0	107.0	166.0
Chlorodibromomethane			<5	
cis-1,2-Dichloroethene	1.17	2.11	2.16	<1.00
Iron, Dissolved	<.50	<.50	<.50	<.50
Methylene Chloride	<5	<5	<5	<5
pH	7.09	6.90	7.39	
Phenols	<.0188		<.0200	<.0200
Specific Conductance	1999	1673	1472	
Tetrachloroethene	<1	<1	<1	<1
Total Organic Halogens	76.0		41.0	
Trichloroethene	<1	<1	<1	<1
Vinyl Chloride	<1	<1	<1	<1

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

Table 2

Analytical Data Summary for MW-11

Constituents	Units	7/12/1996	10/10/1996	1/21/1997	4/17/1997	10/4/1997	4/22/1998	10/19/1998	4/30/1999	9/1/1999	4/12/2000	10/17/2000	4/25/2001
1,1,1-Trichloroethane	ug/L	<1.0	1.1	<1.0	<1.0								
1,1-Dichloroethene	ug/L	<1	<1	<2	<2								
1,2-Dichloroethane	ug/L	<1.0	<.4	<.4	<.4							<.4	<.4
1,2-Dichloropropane	ug/L												
Ammonia as N	mg/L	<.20	<.20	<.20	<.20	<.20	<.20	<.20	<.20	<.20	<.20	<.20	<.20
Benzene	ug/L	<1.0	<1.0	<.5	<.5							<.5	<.5
Chemical Oxygen Demand	mg/L	5.70	5.20	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Chloride	mg/L	19.0	19.0	22.0	20.0	28.0	20.2	32.0	37.0	33.0	6.4	5.5	12.9
Chlorodibromomethane	ug/L												
cis-1,2-Dichloroethene	ug/L												
Iron, Dissolved	mg/L	3.600	<.100	<.100	<.100	<.100	<.100	<.100	<.100	<.100	<.100	<.100	<.100
Methylene Chloride	ug/L												
pH	S.U.	6.60	6.80	6.80	6.60	6.80	6.70	6.70	6.50	6.50	7.10	6.90	7.10
Phenols	mg/L					<.0200		<.0200		<.0200		<.0200	
Specific Conductance	umhos/cm	465	622	515	537	543	625	667	707	736	737	740	428
Tetrachloroethene	ug/L												
Total Organic Halogens	ug/L					<10.0		15.0		11.0		<10.0	
Trichloroethene	ug/L	<1	<1	<1	<1							<1	<1
Vinyl Chloride	ug/L												

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

Table 2

Analytical Data Summary for MW-11

Constituents	10/23/2001	4/28/2002	10/6/2002	4/3/2003	10/7/2003	4/30/2004	10/12/2004	4/26/2005	10/11/2005	4/26/2006	10/5/2006	4/23/2007	10/9/2007
1,1,1-Trichloroethane					<2								
1,1-Dichloroethene					<.4								
1,2-Dichloroethane	<.4												
1,2-Dichloropropane													
Ammonia as N	<.20	<.20	<.20	<.20	<.20	<.20	.27	<.20	<.20	<.20	<.20	<.20	<.20
Benzene	<.5				<.5								
Chemical Oxygen Demand	<5.00	5.40	23.00	7.80	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	10.60	13.70	8.30
Chloride	16.0	18.0	18.8	12.3	15.8	23.4	44.9	56.3	50.5	38.2	14.0	16.0	23.9
Chlorodibromomethane													
cis-1,2-Dichloroethene													
Iron, Dissolved	<.100	<.100	<.100	<.100	<.100	<.100	<.100	<.100	<.100	.274	<.100	<.100	3.090
Methylene Chloride													
pH	7.20	6.30	7.30	7.20	7.50	6.80	7.10	7.10	7.20	7.10	7.20	7.20	7.40
Phenols	<.0200	<.0200	<.0200	<.0200		<.0200		<.0200		<.0200		<.0200	
Specific Conductance	733	784	684	735	832	615	1266	658	989	882	975	979	1030
Tetrachloroethene													
Total Organic Halogens	<10.0	<10.0	<10.0	<10.0		<10.0		<10.0		<10.0		<10.0	
Trichloroethene	<1				<1								
Vinyl Chloride													

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

Table 2

Analytical Data Summary for MW-11

Constituents	4/7/2008	10/14/2008	4/7/2009	10/5/2009	4/1/2010	10/1/2010	4/7/2011	10/27/2011	4/23/2012	10/23/2012	4/16/2013	10/28/2013	4/24/2014
1,1,1-Trichloroethane								<1.0					
1,1-Dichloroethene								<1.0					
1,2-Dichloroethane								<1					
1,2-Dichloropropane								<.20					
Ammonia as N	<.20	<.20	<.20	<.20	<.20	<.20	<.20	<.20	<.20	<.20	<.20	<.20	<.20
Benzene								<.5					
Chemical Oxygen Demand	10.60	11.10	<5.00	<5.00	<5.00	18.70	5.40	26.00	<5.00	<5.00	<5.00	14.40	<5.00
Chloride	67.9	67.1	64.9	61.3	61.6	46.1	59.9	61.9	72.4	29.3	17.6	57.6	64.2
Chlorodibromomethane								<5					
cis-1,2-Dichloroethene								<1					
Iron, Dissolved	<.100	<.100	<.100	<.100	<.100	<.100	<.100	<.100	.679	.139	<.100	<.100	<.100
Methylene Chloride								<5					
pH	6.90	6.90	6.80	7.00	6.90	6.90	6.80	7.00	6.90	7.00	7.20	6.70	7.10
Phenols	<.0200		<.0200		<.0180		<.0200		<.0200		<.0192		<.0210
Specific Conductance	1170	992	1034	1052	1121	1071	1039	1003	1060	1187	1121	1193	1178
Tetrachloroethene								<1					
Total Organic Halogens	11.1		15.6		18.9		25.0		29.6		<30.0		<30.0
Trichloroethene								<1					
Vinyl Chloride								<1					

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

Table 2

Analytical Data Summary for MW-11

Constituents	10/6/2014	4/21/2015	10/5/2015	4/26/2016	10/5/2016	4/4/2017	10/10/2017	4/11/2018	10/30/2018	4/1/2019	10/8/2019	4/20/2020	10/20/2020
1,1,1-Trichloroethane													
1,1-Dichloroethene													
1,2-Dichloroethane													
1,2-Dichloropropane													
Ammonia as N	<.20	<.20	<.20	<.20	<.20	<.20	<.20	<.20	<.20	<.20	<.20	<.20	<.20
Benzene													
Chemical Oxygen Demand	9.00	8.67	7.94	6.47	6.74	<5.00	<5.00	13.30	7.82	16.60	<5.00	7.25	9.21
Chloride	45.1	78.7	84.3	61.1	78.5	102.0	91.8	89.3	75.1	81.0	69.2	72.0	84.1
Chlorodibromomethane													
cis-1,2-Dichloroethene													
Iron, Dissolved	<.100	<.100	<.100	<.100	<.100	<.500	<.500	<.500	<.500	<.500	<.500	<.500	1.710
Methylene Chloride													
pH	7.20	7.10	7.00	7.00	7.00	6.85	6.91	6.85	6.88	6.84	6.91	6.64	7.17
Phenols		<.0180		<.0188		<.0200		<.0184		<.0200		<.0220	
Specific Conductance	1082	1215	1221	1218	1299	1234	1196	1175	1204	1296	1316	1416	1462
Tetrachloroethene													
Total Organic Halogens		<30.0		<30.0		41.9		<30.0		<30.0		<40.0	
Trichloroethene													
Vinyl Chloride													

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

Table 2

Analytical Data Summary for MW-11

Constituents	4/26/2021	8/16/2021	6/1/2022	10/3/2022	5/3/2023
1,1,1-Trichloroethane					
1,1-Dichloroethene					
1,2-Dichloroethane					
1,2-Dichloropropane					
Ammonia as N	<.20	<.20	<.20	<.20	<.20
Benzene					
Chemical Oxygen Demand	15.10	8.90	7.59	6.54	8.40
Chloride	100.0	38.4	26.9	24.3	25.1
Chlorodibromomethane					
cis-1,2-Dichloroethene					
Iron, Dissolved	<.500	<.500	<.500	<.500	<.500
Methylene Chloride					
pH	6.90	7.86	7.26	7.63	
Phenols	<.0188		<.0200		<.0200
Specific Conductance	1553	1465	1245	1266	
Tetrachloroethene					
Total Organic Halogens	22.0		<10.0		
Trichloroethene					
Vinyl Chloride					

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

Table 3

Analytical Data Summary for MW-12

Constituents	Units	10/10/1996	1/21/1997	4/17/1997	7/15/1997	10/4/1997	4/22/1998	10/19/1998	4/30/1999	9/1/1999	4/12/2000	10/17/2000	4/25/2001
1,1,1-Trichloroethane	ug/L	1.8	2.1	<1.0	1.9								
1,1-Dichloroethene	ug/L	<1	<2	<2	<2	<2	<2	<2		<2	<2		
1,2-Dichloroethane	ug/L	<.40	<.40	<.40	<.40	<.40	<.40	<.40	<.40	<.40	<.40	<.40	<.40
1,2-Dichloropropane	ug/L												
Ammonia as N	mg/L	<.20	<.20	<.20	<.20	<.20	<.20	.21	<.20	<.20	<.20	<.20	<.20
Benzene	ug/L	<1.000	2.100	2.200	2.100	2.400	2.700	3.100	3.300	3.000	3.000	3.500	2.800
Chemical Oxygen Demand	mg/L	7.00	11.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Chloride	mg/L	5.40	6.40	7.50	6.80	6.60	8.10	7.40	9.60	8.30	6.40	7.90	8.00
Chlorodibromomethane	ug/L												
cis-1,2-Dichloroethene	ug/L												
Iron, Dissolved	mg/L	<.100	<.100	<.100	<.100	<.100	<.100	<.100	<.100	<.100	<.100	<.100	<.100
Methylene Chloride	ug/L												
pH	S.U.	6.40	6.20	6.20	6.10	5.00	6.00	6.00	6.00	5.80	5.70	5.80	6.70
Phenols	mg/L					<.0200		<.0200		<.0200		<.0200	
Specific Conductance	umhos/cm	1026	922	1010	1017	906	1044	1046	1102	1171	1087	1129	1223
Tetrachloroethene	ug/L												
Total Organic Halogens	ug/L					83.0		23.0		64.0		55.0	
Trichloroethene	ug/L	2.80	5.50	4.90	4.70	4.70	4.80	5.40	5.60	4.80	5.30	5.40	4.70
Vinyl Chloride	ug/L												

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

Table 3

Analytical Data Summary for MW-12

Constituents	10/23/2001	4/28/2002	10/6/2002	4/3/2003	10/7/2003	4/30/2004	10/12/2004	4/26/2005	10/11/2005	4/26/2006	10/5/2006	4/23/2007	10/9/2007
1,1,1-Trichloroethane						<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethene		<2	<2		<2	<2	<2	<2	<2	<2	<2	<2	<2
1,2-Dichloroethane	<.40	<.40	<.40		<.40	1.33	<.40	<.40	<.40	<1.00	<1.00	<1.00	<1.00
1,2-Dichloropropane													
Ammonia as N	<.20	<.20	<.20	<.20	<.20	<.20	<.20	<.20	<.20	<.20	<.20	<.20	<.20
Benzene	4.300	3.600	3.590		2.880	<.500	2.740	2.300	1.760	1.220	1.110	1.330	1.690
Chemical Oxygen Demand	<5.00	8.50	22.00	13.00	<5.00	8.20	<5.00	<5.00	<5.00	<5.00	14.10	12.00	8.30
Chloride	16.20	17.40	27.00	43.10	81.10	60.40	50.10	21.50	21.40	9.88	14.50	10.70	23.90
Chlorodibromomethane													
cis-1,2-Dichloroethene													
Iron, Dissolved	<.100	<.100	<.100	<.100	<.100	<.100	<.100	.300	1.500	2.290	.650	.816	3.090
Methylene Chloride													
pH	6.40	6.20	6.70	6.70	6.80	6.30	6.60	6.40	6.60	6.70	6.70	7.20	6.60
Phenols	<.0200	<.0200	<.0200	<.0200		<.0200		<.0200		<.0200		<.0200	
Specific Conductance	1165	1040	1051	1319	671	1106	496	182	1571	1374	1369	1270	1451
Tetrachloroethene													
Total Organic Halogens	58.0	59.0	44.0	57.0		54.0		38.0		41.4		33.8	
Trichloroethene	5.60	4.60	5.35		3.93	6.57	4.05	3.60	4.19	2.95	1.88	1.36	1.76
Vinyl Chloride													

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

Table 3

Analytical Data Summary for MW-12

Constituents	4/7/2008	10/14/2008	4/7/2009	10/5/2009	4/1/2010	10/1/2010	4/7/2011	10/27/2011	4/23/2012	10/23/2012	4/16/2013	10/28/2013	4/24/2014
1,1,1-Trichloroethane	<1.0	<1.0	<1.0	<1.0	<4.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethene	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,2-Dichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-Dichloropropane								<1			<1	<1	<1
Ammonia as N	<.20	<.20	<.20	<.20	<.20	<.20	<.20	<.20	<.20	<.20	<.20	<.20	<.20
Benzene	1.240	1.200	1.410	1.390	1.390	1.240	1.300	.920	.940	.920	1.050	1.200	1.330
Chemical Oxygen Demand	9.20	9.40	6.10	9.80	<5.00	6.70	6.80	11.00	<5.00	<5.00	9.90	<5.00	<5.00
Chloride	13.20	19.80	9.30	9.80	11.00	25.90	16.00	14.20	12.30	9.37	9.32	35.80	23.80
Chlorodibromomethane								<5			<5	<5	<5
cis-1,2-Dichloroethene								33.0			58.3	51.7	57.3
Iron, Dissolved	.465	1.610	2.400	7.220	5.400	6.230	5.660	5.300	4.510	7.640	5.970	8.850	10.100
Methylene Chloride								<5			<5	<5	<5
pH	6.30	6.50	6.80	6.80	6.50	6.70	6.50	6.70	6.60	6.40	6.50	6.70	6.50
Phenols	<.0200		<.0180		<.0180		<.0200		<.0376		<.0198		<.0200
Specific Conductance	1571	1377	1326	1371	1357	1399	1184	1205	1199	1518	1476	1523	1512
Tetrachloroethene								<1			<1	<1	<1
Total Organic Halogens	37.3		35.2		44.6		43.2		40.2		40.8		44.4
Trichloroethene	1.33	1.33	1.31	2.32	2.68	1.93	2.40	2.29	2.04	2.60	3.03	2.44	2.46
Vinyl Chloride								1.46			2.51	2.15	2.70

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

Table 3

Analytical Data Summary for MW-12

Constituents	10/6/2014	4/21/2015	10/5/2015	4/26/2016	10/5/2016	4/4/2017	10/10/2017	4/11/2018	10/30/2018	4/1/2019	10/8/2019	4/20/2020	10/20/2020
1,1,1-Trichloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0				
1,1-Dichloroethene													
1,2-Dichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00				
1,2-Dichloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ammonia as N	<.20	<.20	<.20	<.20	<.20	<.20	<.20	<.20	<.20	<.20	<.20	<.20	<.20
Benzene	1.070	1.320	1.620	1.490	1.350	1.340	1.650	1.610	1.520	1.450	1.870	1.860	2.010
Chemical Oxygen Demand	9.40	11.80	8.28	12.40	14.50	<5.00	<5.00	8.20	19.30	<5.00	7.63	<5.00	10.20
Chloride	37.90	63.70	61.40	130.00	106.00	42.90	19.20	15.20	42.60	31.50	12.00	11.20	12.30
Chlorodibromomethane	<5	<5	<5	<5	<5	<5	<5	<5	<5				
cis-1,2-Dichloroethene	38.7	40.6	55.9	42.8	35.7	37.4	48.9	50.4	29.6	34.3	47.3	52.4	55.1
Iron, Dissolved	13.500	19.800	21.700	15.600	19.200	13.100	17.100	22.900	27.900	20.200	27.400	24.800	19.400
Methylene Chloride	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
pH	6.60	6.50	6.40	6.60	6.90	6.46	6.42	6.42	6.44	6.30	6.46	6.43	6.75
Phenols		<.0180		<.0204		<.0196		<.0180		<.0196		<.0200	
Specific Conductance	1547	1601	1637	1786	1706	1375	1287	1304	1556	1399	1499	1386	1684
Tetrachloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total Organic Halogens		64.8		50.5		46.2		41.9		37.4		<40.0	
Trichloroethene	1.88	1.77	2.37	<1.00	1.36	1.41	1.50	1.23	<1.00	1.18	<1.00	<1.00	1.54
Vinyl Chloride	2.36	2.03	2.59	2.73	4.56	3.29	5.18	4.48	9.14	8.96	6.50	4.90	5.41

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

Table 3

Analytical Data Summary for MW-12

Constituents	4/26/2021	8/16/2021	6/1/2022	10/3/2022	5/3/2023
1,1,1-Trichloroethane			<1.0	<1.0	
1,1-Dichloroethene					
1,2-Dichloroethane			<1.00	<1.00	
1,2-Dichloropropane	<1	<1	<1	<1	<1
Ammonia as N	<.20	<.20	<.20	<.20	<.20
Benzene	1.840	1.950	.784	1.460	1.270
Chemical Oxygen Demand	16.20	11.40	5.93	6.19	15.50
Chloride	9.32	12.50	32.00	21.70	29.10
Chlorodibromomethane			<5	<5	
cis-1,2-Dichloroethene	49.0	64.7	31.0	35.2	31.9
Iron, Dissolved	27.800	29.900	25.300	9.460	10.800
Methylene Chloride	<5	<5	<5	<5	<5
pH	6.69	6.54	6.64	6.49	
Phenols	<.0188		<.0200		<.0220
Specific Conductance	1637	1754	1371	1494	
Tetrachloroethene	<1	<1	<1	<1	<1
Total Organic Halogens	42.0		48.0		
Trichloroethene	<1.00	<1.00	<1.00	<1.00	<1.00
Vinyl Chloride	3.57	4.08	1.56	7.15	4.19

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

Table 4

Analytical Data Summary for MW-13

Constituents	Units	7/12/1996	10/10/1996	1/21/1997	4/17/1997	10/4/1997	4/22/1998	10/19/1998	4/30/1999	9/1/1999	4/12/2000	10/17/2000	4/25/2001
1,1,1-Trichloroethane	ug/L	<1	<1	<1	<1								
1,1-Dichloroethene	ug/L	<1	<1	<2	<2								
1,2-Dichloroethane	ug/L	<1.0	<.4	<.4	<.4							<.4	<.4
1,2-Dichloropropane	ug/L												
Ammonia as N	mg/L	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	.2	<.2	<.2
Benzene	ug/L	<1.0	<1.0	<.5	<.5							<.5	<.5
Chemical Oxygen Demand	mg/L	63.00	<5.00	7.50	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	22.00	<5.00	6.30
Chloride	mg/L	12.0	13.0	14.0	18.0	18.0	15.6	18.0	17.0	18.0	17.5	19.9	15.1
Chlorodibromomethane	ug/L												
cis-1,2-Dichloroethene	ug/L												
Iron, Dissolved	mg/L	.900	3.400	3.600	<.100	.490	.200	.050	.050	.720	1.050	<.100	.160
Methylene Chloride	ug/L												
pH	S.U.	6.50	6.80	6.80	6.60	6.40	6.50	6.60	6.40	6.10	6.20	5.80	6.80
Phenols	mg/L					<.0200		<.0200		<.0200		<.0200	
Specific Conductance	umhos/cm	390	475	479	645	548	584	525	605	558	517	536	648
Tetrachloroethene	ug/L												
Total Organic Halogens	ug/L					<10.0		<10.0		138.0		<10.0	
Trichloroethene	ug/L	<1	<1	<1	<1							<1	<1
Vinyl Chloride	ug/L												

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

Table 4

Analytical Data Summary for MW-13

Constituents	10/23/2001	4/28/2002	10/6/2002	4/3/2003	10/7/2003	4/30/2004	10/12/2004	4/26/2005	10/11/2005	4/26/2006	10/5/2006	4/23/2007	10/9/2007
1,1,1-Trichloroethane				<2	<2								
1,1-Dichloroethene				<4	<4								
1,2-Dichloroethane	<.4												
1,2-Dichloropropane													
Ammonia as N	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
Benzene	<.5			<.5	<.5								
Chemical Oxygen Demand	<5.00	8.20	8.40	10.00	<5.00	12.00	<5.00	<5.00	<5.00	6.30	13.10	9.70	<5.00
Chloride	16.7	16.6	16.5	24.8	19.7	19.3	18.4	11.6	19.0	18.8	18.2	17.5	20.1
Chlorodibromomethane													
cis-1,2-Dichloroethene													
Iron, Dissolved	<.100	.710	.850	<.100	.880	<.100	<.100	.150	.340	.560	.934	.178	.177
Methylene Chloride													
pH	7.10	6.70	7.30	7.00	7.50	6.60	7.20	7.00	7.10	7.30	7.10	7.50	7.00
Phenols	<.0200	<.0200	<.0200	<.0200		<.0200		<.0200		<.0200		<.0200	
Specific Conductance	530	423	499	930	646	792	346	608	764	641	687	668	868
Tetrachloroethene													
Total Organic Halogens	<10.0	<10.0	<10.0	23.0		<10.0		13.0		<10.0		<10.0	
Trichloroethene	<1			<1	<1								
Vinyl Chloride													

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

Table 4

Analytical Data Summary for MW-13

Constituents	4/7/2008	10/14/2008	4/7/2009	10/5/2009	4/1/2010	10/1/2010	4/7/2011	10/27/2011	4/23/2012	10/23/2012	4/16/2013	10/28/2013	4/24/2014
1,1,1-Trichloroethane								<1					
1,1-Dichloroethene								<1.0					
1,2-Dichloroethane								<1					
1,2-Dichloropropane								<2	<2	<2	<2	<2	<2
Ammonia as N	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
Benzene								<.5					
Chemical Oxygen Demand	<5.00	5.50	8.80	<5.00	9.60	17.90	12.10	14.30	<5.00	<5.00	<5.00	15.40	<5.00
Chloride	20.0	19.3	18.1	19.9	73.3	51.8	43.1	27.5	15.4	18.3	28.5	60.7	21.6
Chlorodibromomethane								<5					
cis-1,2-Dichloroethene								5.56					
Iron, Dissolved	<.100	.278	.106	.717	<.100	1.840	1.660	.211	.121	.241	<.100	.172	.153
Methylene Chloride								<5					
pH	7.00	7.20	6.80	7.02	6.90	6.60	6.60	6.80	6.80	7.05	6.70	6.90	7.10
Phenols	<.0200		<.0180		<.0200		<.0200		<.0180		<.0196		<.0200
Specific Conductance	804	1057	747	759	1205	1329	1115	1018	1084	806	1336	1421	847
Tetrachloroethene								<1					
Total Organic Halogens	<10.0		5.0		17.1		19.5		16.0		<30.0		<30.0
Trichloroethene								<1					
Vinyl Chloride								<1					

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

Table 4

Analytical Data Summary for MW-13

Constituents	10/6/2014	4/21/2015	10/5/2015	4/26/2016	10/5/2016	4/4/2017	10/10/2017	4/11/2018	10/30/2018	4/1/2019	10/8/2019	4/20/2020	10/20/2020
1,1,1-Trichloroethane													
1,1-Dichloroethene													
1,2-Dichloroethane													
1,2-Dichloropropane													
Ammonia as N	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
Benzene													
Chemical Oxygen Demand	8.30	10.10	7.94	15.30	10.60	5.23	6.51	17.20	18.60	32.50	60.20	26.70	8.56
Chloride	77.7	143.0	75.7	93.2	73.8	130.0	62.8	124.0	132.0	147.0	179.0	116.0	32.5
Chlorodibromomethane													
cis-1,2-Dichloroethene													
Iron, Dissolved	<.100	<.100	<.100	<.100	<.100	<.500	.663	<.500	<.500	<.500	1.780	1.370	<.500
Methylene Chloride													
pH	6.80	6.80	6.76	6.87	6.89	6.65	6.62	6.77	6.70	6.66	6.62	7.10	7.54
Phenols		<.0180		<.0188		<.0200		<.0184		<.0192		<.0200	
Specific Conductance	1590	1583	1204	1195	1159	1341	1193	1332	1578	1590	1854	1680	990
Tetrachloroethene													
Total Organic Halogens		48.2		<30.0		55.9		69.2		72.7		54.1	
Trichloroethene													
Vinyl Chloride													

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

Table 4

Analytical Data Summary for MW-13

Constituents	4/26/2021	8/16/2021	6/1/2022	10/3/2022	5/3/2023
1,1,1-Trichloroethane					
1,1-Dichloroethene					
1,2-Dichloroethane					
1,2-Dichloropropane					
Ammonia as N	<.2	<.2	<.2	<.2	<.2
Benzene					
Chemical Oxygen Demand	22.50	12.50	20.90	13.50	23.50
Chloride	85.2	33.1	24.7	21.7	73.0
Chlorodibromomethane					
cis-1,2-Dichloroethene					
Iron, Dissolved	<.500	3.430	1.710	1.740	1.200
Methylene Chloride					
pH	6.90	7.41	7.02	7.14	
Phenols	<.0200		<.0200		<.0200
Specific Conductance	1595	1209	938	917	
Tetrachloroethene					
Total Organic Halogens	31.0		11.0		
Trichloroethene					
Vinyl Chloride					

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

Table 5

Analytical Data Summary for MW-14

Constituents	Units	7/12/1996	10/10/1996	1/21/1997	4/17/1997	10/4/1997	4/22/1998	10/19/1998	4/30/1999	9/1/1999	4/12/2000	10/17/2000	4/25/2001
1,1,1-Trichloroethane	ug/L	<1.00	4.20	3.30	<1.00								
1,1-Dichloroethene	ug/L	<1	<1	<2	<2	<2	<2	<2		<2	<2		
1,2-Dichloroethane	ug/L	<1.00	<.40	<.40	<.40	.41	<.40	.54	1.10	<.40	<.40	<.40	.40
1,2-Dichloropropane	ug/L												
Ammonia as N	mg/L	<.20	<.20	<.20	<.20	<.20	<.20	<.20	<.20	<.20	<.20	<.20	<.20
Benzene	ug/L	<1.000	<1.000	<.500	<.500	<.500	<.500	<.500	<.500	<.500	<.500	<.500	<.500
Chemical Oxygen Demand	mg/L	24.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Chloride	mg/L	12.0	14.0	13.0	17.0	15.0	18.5	19.0	20.0	18.0	17.7	17.0	16.8
Chlorodibromomethane	ug/L												
cis-1,2-Dichloroethene	ug/L												
Iron, Dissolved	mg/L	<.100	<.100	<.100	<.100	<.100	<.100	<.100	<.100	<.100	<.100	<.100	.140
Methylene Chloride	ug/L												
pH	S.U.	6.60	6.70	6.50	6.30	6.50	6.50	6.40	6.10	6.10	6.00	6.30	7.00
Phenols	mg/L					<.0200		<.0200		<.0200		<.0200	
Specific Conductance	umhos/cm	528	690	582	698	682	764	831	913	900	914	808	941
Tetrachloroethene	ug/L												
Total Organic Halogens	ug/L					28.0		<10.0		52.0		22.0	
Trichloroethene	ug/L	3.10	<1.00	1.20	1.50	1.30	1.10	1.60	2.10	1.40	1.70	<1.00	1.10
Vinyl Chloride	ug/L												

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

Table 5

Analytical Data Summary for MW-14

Constituents	10/23/2001	4/28/2002	10/6/2002	4/3/2003	10/7/2003	4/30/2004	10/12/2004	4/26/2005	10/11/2005	4/26/2006	10/5/2006	4/23/2007	10/9/2007
1,1,1-Trichloroethane						<1.00	1.79	1.42	1.29	<1.00	1.13	1.24	1.04
1,1-Dichloroethene		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,2-Dichloroethane	.50	<.40	<.40	<.40	<.40	<.40	<.40	<.40	<.40	<1.00	<1.00	<1.00	<1.00
1,2-Dichloropropane													
Ammonia as N	<.20	<.20	<.20	<.20	<.20	.22	<.20	<.20	<.20	<.20	<.20	<.20	<.20
Benzene	<.500	<.500	<.500	<.500	<.500	2.690	<.500	<.500	<.500	<.500	<.500	<.500	<.500
Chemical Oxygen Demand	<5.00	<5.00	15.00	7.70	10.00	<5.00	6.00	5.30	<5.00	<5.00	12.00	<5.00	5.80
Chloride	22.6	27.9	23.1	30.9	24.8	43.4	80.6	53.3	43.6	38.1	38.4	39.9	43.9
Chlorodibromomethane													
cis-1,2-Dichloroethene													
Iron, Dissolved	<.100	<.100	<.100	<.100	<.100	<.100	<.100	<.100	<.100	<.100	<.100	<.100	<.100
Methylene Chloride													
pH	6.80	6.50	7.00	7.00	7.20	7.00	6.90	6.80	6.90	6.80	6.90	6.90	6.80
Phenols	<.0200	<.0200	<.0200		<.0200	<.0200	<.0200	<.0200		<.0200		<.0200	
Specific Conductance	889	742	757	930	1050	930	419	286	1237	1055	1145	1146	1211
Tetrachloroethene													
Total Organic Halogens	41.0	38.0	25.0		23.0	30.0		48.0		39.1		44.4	
Trichloroethene	1.10	1.10	<1.00	<1.00	<1.00	4.25	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Vinyl Chloride													

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

Table 5

Analytical Data Summary for MW-14

Constituents	4/7/2008	10/14/2008	4/7/2009	10/5/2009	4/1/2010	10/1/2010	4/7/2011	10/27/2011	4/23/2012	10/23/2012	4/16/2013	10/28/2013	4/24/2014
1,1,1-Trichloroethane	<1.00	<1.00	<1.00	<1.00	<4.00	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00
1,1-Dichloroethene	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,2-Dichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-Dichloropropane								<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Ammonia as N	<.20	<.20	<.20	<.20	<.20	<.20	<.20	<.20	<.20	<.20	<.20	<.20	<.20
Benzene	<.500	<.500	<.500	<1.000	<.500	.530	.620	.560	.610	<.500	<.500	<.500	<.500
Chemical Oxygen Demand	<5.00	10.00	10.00	<5.00	<5.00	<5.00	10.50	13.30	<5.00	7.70	<5.00	22.80	5.10
Chloride	45.1	40.5	37.3	44.7	43.6	53.6	49.7	35.0	33.5	29.4	16.4	66.1	62.3
Chlorodibromomethane								<5	<5	<5	<5	<5	<5
cis-1,2-Dichloroethene								49.8			19.2	52.0	42.2
Iron, Dissolved	<.100	<.100	<.100	<.100	<.100	<.100	<.100	<.100	<.100	<.100	<.100	<.100	.102
Methylene Chloride								7.72			<5.00	7.93	7.85
pH	6.90	6.70	6.50	6.80	6.60	6.60	6.60	6.70	6.60	6.70	7.00	6.80	6.90
Phenols	<.0200		<.0180		<.0200		<.0180		<.0200		<.0200		<.0196
Specific Conductance	1397	1254	1282	1266	1246	1279	1179	1158	1177	1383	1184	1487	1403
Tetrachloroethene								<1			<1	<1	<1
Total Organic Halogens	53.2		69.8		67.2		88.1		87.8		<30.0		83.1
Trichloroethene	<1.00	<1.00	<1.00	1.10	<1.00	1.09	1.43	1.40	3.52	2.10	<1.00	1.75	1.14
Vinyl Chloride								<1			<1	<1	<1

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

Table 5

Analytical Data Summary for MW-14

Constituents	10/6/2014	4/21/2015	10/5/2015	4/26/2016	10/5/2016	4/4/2017	10/10/2017	4/11/2018	10/30/2018	4/1/2019	10/8/2019	4/20/2020	10/20/2020
1,1,1-Trichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00				
1,1-Dichloroethene													
1,2-Dichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00				
1,2-Dichloropropane	<1.00	<1.00	<1.00	<1.00	<1.00	1.08	1.42	1.13	<1.00	<1.00	<1.00	<1.00	1.17
Ammonia as N	<.20	<.20	<.20	<.20	<.20	<.20	<.20	<.20	<.20	<.20	<.20	<.20	<.20
Benzene	<.500	<.500	<.500	<.500	<.500	.644	.781	.592	<.500	.561	.627	.628	.713
Chemical Oxygen Demand	7.70	<5.00	11.30	6.47	5.69	<5.00	<5.00	6.60	<5.00	12.80	<5.00	6.24	<5.00
Chloride	61.6	78.8	62.0	26.4	38.1	59.0	53.2	48.2	20.5	36.5	30.5	41.6	50.2
Chlorodibromomethane	<5	<5	<5	<5	<5	<5	<5	<5	<5				
cis-1,2-Dichloroethene	34.7	27.3	34.7	11.3	29.1	49.6	69.2	59.8	21.4	45.3	54.4	63.6	73.2
Iron, Dissolved	<.100	<.100	<.100	<.100	<.100	<.500	<.500	<.500	<.500	<.500	<.500	<.500	<.500
Methylene Chloride	6.97	<5.00	7.07	<5.00	10.20	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
pH	6.70	11.40	6.70	6.80	6.78	6.60	6.53	6.58	6.70	6.62	6.89	6.49	7.11
Phenols		<.0180		<.0196		<.0200		.0278		<.0188		<.0196	
Specific Conductance	1443	1431	1423	1314	1377	1272	1238	1227	1317	1328	1338	1541	1542
Tetrachloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total Organic Halogens		77.7		<30.0		84.1		90.6		117.0		85.6	
Trichloroethene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	1.13	<1.00	<1.00	<1.00	<1.00	<1.00
Vinyl Chloride	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1

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

Table 5

Analytical Data Summary for MW-14

Constituents	4/26/2021	8/16/2021	6/1/2022	5/3/2023
1,1,1-Trichloroethane			<1.00	
1,1-Dichloroethene				
1,2-Dichloroethane			<1.00	
1,2-Dichloropropane	1.03	1.55	<1.00	<1.00
Ammonia as N	<.20	<.20	<.20	<.20
Benzene	<.500	<.500	<.500	<.500
Chemical Oxygen Demand	15.50	12.50	13.90	29.60
Chloride	51.0	50.3	50.0	58.8
Chlorodibromomethane			<5	
cis-1,2-Dichloroethene	56.1	74.3	33.3	36.6
Iron, Dissolved	<.500	<.500	<.500	<.500
Methylene Chloride	<5.00	<5.00	<5.00	<5.00
pH	6.82	6.69	6.90	
Phenols	<.0184		<.0200	<.0200
Specific Conductance	1570	1608	1382	
Tetrachloroethene	<1	<1	<1	<1
Total Organic Halogens	76.0		76.0	
Trichloroethene	<1.00	<1.00	<1.00	<1.00
Vinyl Chloride	<1	<1	<1	<1

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

Table 6

Analytical Data Summary for MW-16

Constituents	Units	4/20/2020	10/20/2020	4/26/2021	8/16/2021	6/1/2022	10/3/2022	5/3/2023
1,1,1-Trichloroethane	ug/L					<1	<1	
1,2-Dichloroethane	ug/L					<1	<1	
1,2-Dichloropropane	ug/L	<1	<1	<1	<1	<1	<1	<1
Ammonia as N	mg/L	<.2	<.2	<.2	<.2	<.2	<.2	<.2
Benzene	ug/L	<.5	<.5	<.5	<.5	<.5	<.5	<.5
Chemical Oxygen Demand	mg/L	<5.00	8.23	7.05	9.89	38.20	50.40	12.10
Chloride	mg/L	12.00	27.80	5.50	8.80	9.73	9.58	6.95
Chlorodibromomethane	ug/L					<5	<5	
cis-1,2-Dichloroethene	ug/L	<1	<1	<1	<1	<1	<1	<1
Iron, Dissolved	mg/L	<.5	<.5	<.5	<.5	<.5	<.5	<.5
Methylene Chloride	ug/L	<.5	<.5	<.5	<.5	<.5	<.5	<.5
pH	S.U.	7.35	6.62	6.97	6.77	7.08	6.84	
Phenols	mg/L	<.0196		<.0192		<.0200		<.0200
Specific Conductance	umhos/cm	1524	1680	1436	1382	1103	1134	
Tetrachloroethene	ug/L	<1	<1	<1	1	<1	<1	<1
Total Organic Halogens	ug/L	<40		<10		<10		
Trichloroethene	ug/L	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	ug/L	<1	<1	<1	<1	<1	<1	<1

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

Table 7

Analytical Data Summary for MW-17

Constituents	Units	10/4/1997	11/10/1997	1/8/1998	4/22/1998	7/1/1998	10/19/1998	4/30/1999	9/1/1999	4/12/2000	10/17/2000	4/25/2001	10/23/2001
1,1,1-Trichloroethane	ug/L		<1.00	<1.00									
1,1-Dichloroethene	ug/L	<2	<2	<2	<2	<2	<2		<2	<2			
1,2-Dichloroethane	ug/L	<.4	<.4	<.4	<.4	<.4	<.4	<.4	<.4	<.4	<.4	<.4	<.4
1,2-Dichloropropane	ug/L												
Ammonia as N	mg/L		<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
Benzene	ug/L	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5
Chemical Oxygen Demand	mg/L		<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Chloride	mg/L		<5.00	<5.00	<5.00	7.30	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Chlorodibromomethane	ug/L												
cis-1,2-Dichloroethene	ug/L												
Iron, Dissolved	mg/L		<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1
Methylene Chloride	ug/L												
pH	S.U.				7.00	7.00	6.80	6.80	6.80	7.00	5.10	7.50	7.50
Phenols	mg/L						<.0200		<.0200		<.0200		<.0200
Specific Conductance	umhos/cm				408	450	444	449	449	465	440	511	473
Tetrachloroethene	ug/L												
Total Organic Halogens	ug/L						<10.0		<10.0		<10.0		<10.0
Trichloroethene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	ug/L												

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

Table 7

Analytical Data Summary for MW-17

Constituents	4/28/2002	10/6/2002	4/3/2003	10/7/2003	4/30/2004	10/12/2004	4/26/2005	10/11/2005	4/26/2006	10/5/2006	4/23/2007	10/9/2007	4/7/2008
1,1,1-Trichloroethane				<1.00	1.44	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1-Dichloroethene	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,2-Dichloroethane	<.4	<.4	<.4	<.4	<.4	<.4	<.4	<.4	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane													
Ammonia as N	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
Benzene	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5
Chemical Oxygen Demand	<5.00	11.00	7.50	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	8.40	10.60	<5.00	<5.00
Chloride	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Chlorodibromomethane													
cis-1,2-Dichloroethene													
Iron, Dissolved	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1
Methylene Chloride													
pH	6.90	7.40	7.30	7.60	6.90	7.20	7.20	7.40	7.20	7.40	7.20	7.20	7.10
Phenols	<.0200	<.0200	<.0200		<.0200		<.0200				<.0200		
Specific Conductance	427	417	299	572	525	861	131	699	632	620	638	663	729
Tetrachloroethene													
Total Organic Halogens	<10.0	<10.0	<10.0		<10.0		<10.0				<10.0		
Trichloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride													

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

Table 7

Analytical Data Summary for MW-17

Constituents	10/14/2008	4/7/2009	10/5/2009	4/1/2010	10/1/2010	4/7/2011	10/27/2011	4/23/2012	10/23/2012	4/16/2013	10/28/2013	4/24/2014	10/6/2014
1,1,1-Trichloroethane	<1.00	<1.00	<1.00	<4.00	<1.00	<1.00	<1.00	<2.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,1-Dichloroethene	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,2-Dichloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane							<1			<1	<1	<1	<1
Ammonia as N	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
Benzene	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5
Chemical Oxygen Demand	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	14.30	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Chloride	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<2.00	<5.00	1.65	1.66
Chlorodibromomethane							<5			<5	<5	<5	<5
cis-1,2-Dichloroethene							<1			<1	<1	<1	<1
Iron, Dissolved	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1
Methylene Chloride							<5			<5	<5	<5	<5
pH	7.30	6.90	7.20	7.30	7.10	7.20	7.10	7.10	7.10	7.30	7.40	7.23	7.28
Phenols		<.0180		<.0180		<.0180		<.0200		<.0196		<.0188	
Specific Conductance	646	613	625	649	636	591	611	599	774	725	745	780	769
Tetrachloroethene							<1			<1	<1	<1	<1
Total Organic Halogens		<10.0		<10.0		<10.0		11.4		<30.0		<30.0	
Trichloroethene	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1
Vinyl Chloride							<1			<1	<1	<1	<1

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

Table 7

Analytical Data Summary for MW-17

Constituents	4/21/2015	10/5/2015	4/26/2016	10/5/2016	4/4/2017	10/10/2017	4/11/2018	10/30/2018	4/1/2019	10/8/2019	4/20/2020	10/20/2020	4/26/2021
1,1,1-Trichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00					
1,1-Dichloroethene													
1,2-Dichloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0					
1,2-Dichloropropane	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ammonia as N	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
Benzene	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5
Chemical Oxygen Demand	<5.00	<5.00	<5.00	<5.00	<5.00	<25.00	<5.00	<5.00	5.36	<5.00	<5.00	5.30	7.40
Chloride	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	6.47	<5.00	<5.00	<5.00	<5.00	<5.00
Chlorodibromomethane	<5	<5	<5	<5	<5	<5	<5	<5					
cis-1,2-Dichloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Iron, Dissolved	<.1	<.1	<.1	<.1	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5
Methylene Chloride	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
pH	6.90	7.21	7.08	7.00	7.29	7.14	7.07	6.73	7.05	7.06	7.33	7.59	7.69
Phenols	<.0184		<.0212		<.0180		<.0192		<.0200		<.0200		<.0184
Specific Conductance	777	800	777	845	752	644	733	1115	806	856	908	860	1025
Tetrachloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total Organic Halogens	<30.0		<30.0		<30.0		<30.0		<30.0		<40.0		<10.0
Trichloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1

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

Table 7

Analytical Data Summary for MW-17

Constituents	8/16/2021	6/1/2022	10/3/2022	5/3/2023
1,1,1-Trichloroethane		<1.00	<1.00	
1,1-Dichloroethene				
1,2-Dichloroethane	<1.0	<1.0	<1.0	
1,2-Dichloropropane	<1	<1	<1	<1
Ammonia as N	<.2	<.2	<.2	<.2
Benzene	<.5	<.5	<.5	<.5
Chemical Oxygen Demand	5.73	21.20	<5.00	10.80
Chloride	<5.00	<5.00	<5.00	<5.00
Chlorodibromomethane		<5	<5	
cis-1,2-Dichloroethene	<1	<1	<1	<1
Iron, Dissolved	<.5	<.5	<.5	<.5
Methylene Chloride	<5	<5	<5	<5
pH	7.39	7.05	7.51	
Phenols		<.0200		<.0200
Specific Conductance	1058	1059	852	
Tetrachloroethene	<1	<1	<1	<1
Total Organic Halogens		<10.0		
Trichloroethene	<1	<1	<1	<1
Vinyl Chloride	<1	<1	<1	<1

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

Table 8

Analytical Data Summary for MW-7

Constituents	Units	7/12/1996	10/10/1996	1/21/1997	4/17/1997	10/4/1997	4/22/1998	10/19/1998	4/30/1999	9/1/1999	4/12/2000	10/17/2000	4/25/2001
1,1,1-Trichloroethane	ug/L	<1	<1	<1	<1								
1,1-Dichloroethene	ug/L	<1	<1	<2	<2	<2	<2	<2		<2	<2		
1,2-Dichloroethane	ug/L	10.6	16.6	<.4	<.4	<.4	<.4	<.4	<.4	<.4	<.4	<.4	<.4
1,2-Dichloropropane	ug/L												
Ammonia as N	mg/L	<.20	<.20	<.20	<.20	<.20	<.20	<.20	<.20	<.20	<.20	<.20	<.20
Benzene	ug/L	<1.000	<1.000	<.500	<.500	.750	.740	.810	.800	<.500	.800	<.500	.600
Chemical Oxygen Demand	mg/L	42.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00
Chloride	mg/L	<5.00	<5.00	<5.00	<5.00	<5.00	6.90	6.60	6.70	5.90	6.40	5.50	5.90
Chlorodibromomethane	ug/L												
cis-1,2-Dichloroethene	ug/L												
Iron, Dissolved	mg/L	<.100	<.100	<.100	<.100	.120	<.100	<.100	<.100	<.100	.130	<.100	.200
Methylene Chloride	ug/L												
pH	S.U.	6.10	6.50	6.50	6.00	6.20	6.10	6.20	6.10	5.90	5.60	6.00	6.70
Phenols	mg/L					<.0200		<.0200		<.0200		<.0200	
Specific Conductance	umhos/cm	738	870	840	919	904	1001	1050	1094	1127	1041	1002	1147
Tetrachloroethene	ug/L												
Total Organic Halogens	ug/L					95.0		51.0		104.0		67.0	
Trichloroethene	ug/L	4.70	5.10	6.60	12.20	9.80	10.90	8.20	12.50	8.20	8.40	6.40	8.40
Vinyl Chloride	ug/L												

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

Table 8

Analytical Data Summary for MW-7

Constituents	10/23/2001	4/28/2002	10/6/2002	4/3/2003	10/7/2003	4/30/2004	10/12/2004	4/26/2005	10/11/2005	4/26/2006	10/5/2006	4/23/2007	10/9/2007
1,1,1-Trichloroethane						<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethene		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,2-Dichloroethane	<.4	<.4	<.4	<.4	<.4	<.4	<.4	<.4	<.4	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane													
Ammonia as N	<.20	<.20	<.20	<.20	.23	.21	<.20	<.20	<.20	<.20	<.20	<.20	<.20
Benzene	1.000	.500	<.500	<.500	.560	.600	.660	<.500	<.500	<.500	.540	.830	1.110
Chemical Oxygen Demand	<5.00	7.30	9.30	7.30	<5.00	8.90	<5.00	5.40	<5.00	5.50	11.70	12.20	7.40
Chloride	7.50	7.50	6.20	6.10	8.20	8.80	7.90	5.70	5.30	5.90	7.34	7.96	7.25
Chlorodibromomethane													
cis-1,2-Dichloroethene													
Iron, Dissolved	<.100	<.100	<.100	<.100	<.100	<.100	<.100	<.100	<.100	<.100	<.100	<.100	<.100
Methylene Chloride													
pH	6.70	6.30	6.50	6.70	7.10		6.50	6.40	6.70	6.70	6.90	6.80	6.60
Phenols	<.0200	<.0200	<.0200	<.0200		<.0200		<.0200		<.0200		<.0200	
Specific Conductance	1102	784	1232	1127	910		1495	1765	1443	1283	1414	1448	1548
Tetrachloroethene													
Total Organic Halogens	83.0	86.0	93.0	73.0		85.0		44.0		63.8		107.0	
Trichloroethene	10.70	12.00	13.40	10.40	10.70	11.00	7.40	3.60	2.94	5.97	7.26	11.00	13.40
Vinyl Chloride													

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

Table 8

Analytical Data Summary for MW-7

Constituents	4/7/2008	10/14/2008	4/7/2009	10/5/2009	4/1/2010	10/1/2010	4/7/2011	10/27/2011	4/23/2012	10/23/2012	4/16/2013	10/28/2013	4/24/2014
1,1,1-Trichloroethane	<1	<1	<1	<1	<4	<2	<1	<1	<2	<1	<1	<1	<1
1,1-Dichloroethene	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,2-Dichloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane								7.44			10.10	10.60	10.80
Ammonia as N	<.20	<.20	<.20	<.20	<.20	<.20	<.20	<.20	<.20	<.20	<.20	<.20	<.20
Benzene	.724	1.010	.680	1.420	2.040	2.050	2.160	1.760	2.660	1.660	2.170	1.230	.549
Chemical Oxygen Demand	<5.00	<5.00	15.30	<5.00	<5.00	13.70	7.10	12.30	<5.00	8.00	8.50	<5.00	<5.00
Chloride	6.54	5.18	5.98	5.95	6.79	5.97	5.54	<5.00	<5.00	6.00	5.31	5.73	6.42
Chlorodibromomethane								<5			<5	<5	<5
cis-1,2-Dichloroethene								88.0			159.0	145.0	132.0
Iron, Dissolved	<.100	<.100	<.100	.190	<.100	<.100	.145	.175	.229	.348	<.100	<.100	.441
Methylene Chloride								<5			<5	<5	<5
pH	6.80	6.60	7.10	6.70	6.70	6.60	6.60	6.60	6.70	6.70	6.60	6.70	6.80
Phenols	<.0200		<.0200		<.0200		<.0200		<.0200		<.0198		<.0188
Specific Conductance	1664	1430	1452	1384	1540	1418	1336	1300	1258	1623	1579	1553	1546
Tetrachloroethene								10.30			10.60	4.45	<1.00
Total Organic Halogens	87.1		111.0		180.0		162.0		<100.0		128.0		104.0
Trichloroethene	11.20	12.80	11.40	37.50	27.20	16.90	28.90	15.40	27.40	24.00	12.70	9.17	9.48
Vinyl Chloride								<1.00			<1.00	1.45	<1.00

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

Table 8

Analytical Data Summary for MW-7

Constituents	10/6/2014	4/21/2015	10/5/2015	4/26/2016	10/5/2016	4/4/2017	10/10/2017	4/11/2018	10/30/2018	4/1/2019	10/8/2019	4/20/2020	10/20/2020
1,1,1-Trichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1				
1,1-Dichloroethene													
1,2-Dichloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0				
1,2-Dichloropropane	8.45	9.46	11.20	8.86	3.19	6.16	9.31	9.81	8.62	5.10	7.25	10.00	9.41
Ammonia as N	<.20	<.20	<.20	<.20	<.20	<.20	<.20	<.20	<.20				
Benzene	.913	.694	.721	.674	<.500	.662	1.220	.958	.896	.580	.655	.813	.949
Chemical Oxygen Demand	<5.00	<5.00	5.29	7.58	<5.00	<5.00	<5.00	6.92	9.21				
Chloride	8.57	8.10	9.03	16.70	15.20	7.08	5.11	5.95	<5.00				
Chlorodibromomethane	<5	<5	<5	<5	<5	<5	<5	<5	<5				
cis-1,2-Dichloroethene	138.0	159.0	160.0	128.0	46.3	112.0	158.0	152.0	113.0	66.3	117.0	193.0	198.0
Iron, Dissolved	<.100	.102	<.100	<.100	<.100	1.250	<.500	<.500	<.500				
Methylene Chloride	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
pH	6.60	6.70	6.60	6.60	6.80	6.52	6.56	6.20	6.45	6.74	6.56	6.76	6.92
Phenols		<.0188		<.0188		<.0184		<.0212					
Specific Conductance	1574	1531	1584	1482	1301	1306	1265	1290	1450	1394	1512	1752	1647
Tetrachloroethene	9.50	1.62	7.31	4.25	3.22	3.87	3.75	3.15	2.12	2.85	1.23	1.90	<1.00
Total Organic Halogens		151.0		122.0		108.0		139.0					
Trichloroethene	6.83	16.40	7.02	11.70	3.16	6.44	9.98	11.10	10.30	5.36	6.71	20.40	17.30
Vinyl Chloride	1.56	1.26	1.24	1.58	<1.00	1.15	1.81	1.87	1.98	<1.00	1.45	3.15	3.48

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

Table 8

Analytical Data Summary for MW-7

Constituents	4/26/2021	8/16/2021	6/1/2022	10/3/2022	5/3/2023
1,1,1-Trichloroethane			<1	<1	
1,1-Dichloroethene					
1,2-Dichloroethane			<1.0	<1.0	
1,2-Dichloropropane	7.34	13.50	10.60	11.80	12.50
Ammonia as N					
Benzene	<.500	.783	<.500	<.500	.716
Chemical Oxygen Demand					
Chloride					
Chlorodibromomethane			<5	<5	
cis-1,2-Dichloroethene	112.0	240.0	147.0	168.0	174.0
Iron, Dissolved					
Methylene Chloride	<5	<5	<5	<5	<5
pH	6.77	6.67	6.65	6.65	
Phenols					
Specific Conductance	1657	1825	1626	1676	
Tetrachloroethene	1.66	5.30	2.89	2.69	2.67
Total Organic Halogens					
Trichloroethene	10.00	12.30	7.03	6.27	7.50
Vinyl Chloride	1.02	2.84	1.47	1.38	3.11

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

Table 9

Analytical Data Summary for MW-8

Constituents	Units	10/10/1996	1/21/1997	4/17/1997	7/15/1997	10/4/1997	4/22/1998	10/19/1998	4/30/1999	9/1/1999	4/12/2000	10/17/2000	4/25/2001
1,1,1-Trichloroethane	ug/L	<1	<1	<1	<1								
1,1-Dichloroethene	ug/L	14.2	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0		<2.0	<2.0		
1,2-Dichloroethane	ug/L	3.00	2.80	<.40	2.80	2.80	3.30	2.60	3.40	2.30	3.00	2.10	2.70
1,2-Dichloropropane	ug/L												
Ammonia as N	mg/L	<.200	<.200	<.200	<.200	<.200	<.200	<.200	<.200	<.200	<.200	<.200	<.200
Benzene	ug/L	2.800	2.200	<.500	1.200	1.530	1.100	1.300	1.300	1.000	.720	.950	<.500
Chemical Oxygen Demand	mg/L	<5.00	7.90	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	5.00	<5.00	<5.00
Chloride	mg/L	12.00	12.00	13.00	15.00	11.00	11.00	12.00	12.00	10.00	8.40	6.20	9.40
Chlorodibromomethane	ug/L												
cis-1,2-Dichloroethene	ug/L												
Iron, Dissolved	mg/L	<.100	.130	<.100	<.100	.180	<.100	<.100	<.100	.330	.190	<.100	<.100
Methylene Chloride	ug/L												
pH	S.U.	6.60	6.40	6.20	6.30	6.20	6.30	6.20	6.10	5.90	5.80	6.20	6.80
Phenols	mg/L					.0220		<.0200		<.0200		<.0200	
Specific Conductance	umhos/cm	923	823	896	929	888	945	1003	1050	1092	970	942	1034
Tetrachloroethene	ug/L												
Total Organic Halogens	ug/L					114.0		56.0		112.0		103.0	
Trichloroethene	ug/L	21.40	20.80	18.60	17.10	15.60	16.40	16.10	14.10	11.80	9.80	9.80	7.80
Vinyl Chloride	ug/L												

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

Table 9

Analytical Data Summary for MW-8

Constituents	10/23/2001	4/28/2002	10/6/2002	4/3/2003	10/7/2003	4/30/2004	10/12/2004	4/26/2005	10/11/2005	4/26/2006	10/5/2006	4/23/2007	10/9/2007
1,1,1-Trichloroethane						<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethene		<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,2-Dichloroethane	2.30	1.90	1.61	<.40	1.55	1.39	1.21	1.30	1.97	1.93	1.83	1.67	1.86
1,2-Dichloropropane													
Ammonia as N	<.200	<.200	<.200	<.200	<.200	.210	<.200	<.200	<.200	<.200	<.200	.275	<.200
Benzene	<.500	<.500	<.500	.800	<.500	<.500	<.500	<.500	.550	1.080	.940	<.500	1.240
Chemical Oxygen Demand	<5.00	5.60	11.00	<5.00	8.20	<5.00	<5.00	6.60	5.20	<5.00	10.50	15.20	<5.00
Chloride	21.60	55.40	26.70	14.20	21.60	14.30	22.80	36.00	37.20	23.90	23.00	24.10	30.20
Chlorodibromomethane													
cis-1,2-Dichloroethene													
Iron, Dissolved	<.100	<.100	<.100	<.100	<.100	<.100	<.100	<.100	<.100	<.100	<.100	<.100	<.100
Methylene Chloride													
pH	6.80	6.50	7.00	6.80	7.10	6.50	6.80	6.70	6.80	6.70	6.90	6.60	6.90
Phenols	<.0200	<.0200	<.0200	<.0200		<.0200		<.0200		<.0200		<.0200	
Specific Conductance	538	984	895	1060	1115	832	563	90	1529	1337	1351	1258	1402
Tetrachloroethene													
Total Organic Halogens	75.0	77.0	72.0	74.0		26.0		71.0		97.3		83.8	
Trichloroethene	7.30	6.40	7.00	9.50	5.02	5.97	4.06	3.61	3.29	1.46	2.61	1.73	2.47
Vinyl Chloride													

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

Table 9

Analytical Data Summary for MW-8

Constituents	4/7/2008	10/14/2008	4/7/2009	10/5/2009	4/1/2010	10/1/2010	4/7/2011	10/27/2011	4/23/2012	10/23/2012	4/16/2013	10/28/2013	4/24/2014
1,1,1-Trichloroethane	<1	<1	<1	<1	<4	<2	<1	<1	<2	<1	<1	<1	<1
1,1-Dichloroethene	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,2-Dichloroethane	1.48	1.35	1.24	1.34	1.05	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-Dichloropropane								1.46			1.62	1.44	1.35
Ammonia as N	<.200	<.200	<.200	<.200	<.200	<.200	<.200	<.200	<.200	<.200	<.200	<.200	<.200
Benzene	1.610	1.460	.560	.860	<.500	<.500	1.090	1.040	.840	.710	<.500	<.500	<.500
Chemical Oxygen Demand	9.50	9.00	9.00	<5.00	6.50	6.70	9.50	19.50	<5.00	7.40	6.20	<5.00	<5.00
Chloride	34.00	32.50	23.30	20.50	14.50	16.90	19.60	16.00	13.50	12.30	11.90	9.86	12.50
Chlorodibromomethane								<5			<5	<5	<5
cis-1,2-Dichloroethene								104.00			85.70	53.80	69.30
Iron, Dissolved	<.100	<.100	<.100	.886	.928	.716	1.480	1.760	9.770	1.720	.710	.295	.351
Methylene Chloride								<5			<5	<5	<5
pH	7.00	6.50	6.60	6.60	6.40	6.60	6.60	6.60	6.50	6.60	6.80	6.80	6.80
Phenols	<.0200		<.0180		<.0180		<.0200		<.0200		<.0196		<.0200
Specific Conductance	1574	1366	1331	1271	1312	1321	1215	1269	1223	1427	1419	1362	1345
Tetrachloroethene								<1			<1	<1	<1
Total Organic Halogens	90.1		91.4		85.3		109.0		71.5		67.6		53.9
Trichloroethene	1.91	2.13	1.91	2.16	1.08	1.12	1.17	1.07	<2.00	1.59	1.87	<1.00	<1.00
Vinyl Chloride								3.73			1.90	<1.00	<1.00

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

Table 9

Analytical Data Summary for MW-8

Constituents	10/6/2014	4/21/2015	10/5/2015	4/26/2016	10/5/2016	4/4/2017	10/10/2017	4/11/2018	10/30/2018	4/1/2019	10/8/2019	4/20/2020	5/28/2020
1,1,1-Trichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<1				
1,1-Dichloroethene													
1,2-Dichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00				
1,2-Dichloropropane	1.17	1.27	1.30	<1.00	<1.00	1.32	1.65	1.43	1.27	1.21	1.57	<1.00	1.43
Ammonia as N	<.200	<.200	<.200	<.200	<.200	<.200	<.200	<.200	<.200	<.200	<.200	<.200	
Benzene	<.500	<.500	<.500	<.500	.801	.794	.701	<.500	<.500	.632	.858	<.500	<.500
Chemical Oxygen Demand	<5.00	<5.00	<5.00	8.32	11.00	5.36	<5.00	7.24	10.30	<5.00	<5.00	5.24	
Chloride	11.50	13.90	10.50	18.70	35.80	29.60	20.80	16.40	35.60	30.30	26.30	21.70	
Chlorodibromomethane	<5	<5	<5	<5	<5	<5	<5	<5	<5				
cis-1,2-Dichloroethene	54.30	72.00	84.50	60.40	84.70	91.90	100.00	80.80	82.60	75.70	85.80	1.21	57.10
Iron, Dissolved	<.100	.265	.144	.415	1.050	<.500	<.500	.613	.554	.611	.560	.782	
Methylene Chloride	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
pH	6.60	6.70	6.70	6.70	6.60	6.55	6.58	6.51	6.63	6.54	6.55	6.84	
Phenols		<.0188		<.0196		<.0188		<.0188		<.0192		<.0200	
Specific Conductance	1339	1389	1380	1442	1585	1326	1245	1232	1473	1507	1564	1622	
Tetrachloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total Organic Halogens		72.9		70.5		105.0		82.0		76.5		<40.0	
Trichloroethene	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Vinyl Chloride	<1.00	<1.00	<1.00	1.06	2.86	3.73	3.83	2.74	2.18	5.33	7.13	<1.00	1.73

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

Table 9

Analytical Data Summary for MW-8

Constituents	10/20/2020	4/26/2021	8/16/2021	6/1/2022	10/3/2022	5/3/2023
1,1,1-Trichloroethane				<1	<1	
1,1-Dichloroethene						
1,2-Dichloroethane				<1.00	<1.00	
1,2-Dichloropropane	1.29	1.26	1.52	1.21	1.01	1.16
Ammonia as N	<.200	<.200	<.200	<.200	<.200	<.200
Benzene	<.500	<.500	<.500	<.500	<.500	<.500
Chemical Oxygen Demand	8.23	<5.00	<5.00	<5.00	5.49	16.50
Chloride	21.70	16.30	15.60	13.10	12.80	12.90
Chlorodibromomethane				<5	<5	
cis-1,2-Dichloroethene	76.40	61.20	85.90	59.40	50.20	53.80
Iron, Dissolved	<.500	.531	<.500	<.500	<.500	<.500
Methylene Chloride	<5	<5	<5	<5	<5	<5
pH	6.78	6.87	6.69	7.01	7.04	
Phenols		<.0192		<.0200		<.0200
Specific Conductance	1557	1618	1834	1466	1456	
Tetrachloroethene	<1	<1	<1	<1	<1	<1
Total Organic Halogens		53.0		46.0		
Trichloroethene	<1.00	<1.00	<1.00	<1.00	<1.00	1.13
Vinyl Chloride	3.25	2.16	2.40	2.72	1.62	2.16

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

Table 10

Analytical Data Summary for MW-9

Constituents	Units	10/10/1996	1/21/1997	4/17/1997	7/15/1997	10/4/1997	4/22/1998	10/19/1998	4/30/1999	9/1/1999	10/12/2004	4/26/2005	10/11/2005
1,1,1-Trichloroethane	ug/L	<1	<1	<1	<1						<1	<1	<1
1,1-Dichloroethene	ug/L	<1	<2	<2	<2	<2	<2	<2		<2	<2	<2	<2
1,2-Dichloroethane	ug/L	.55	<.40	<.40	<.40	.54	<.40	.40	.47	<.40	<.40	<.40	<.40
1,2-Dichloropropane	ug/L												
Ammonia as N	mg/L	<.200	<.200	<.200	<.200	<.200	<.200	<.200	<.200	<.200	.310	<.200	<.200
Benzene	ug/L	<1.0	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5
Chemical Oxygen Demand	mg/L	<5.00	6.20	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	6.20	<5.00
Chloride	mg/L	8.70	10.00	11.00	12.00	11.00	11.30	11.00	9.70	10.00	8.90	7.90	8.40
Chlorodibromomethane	ug/L												
cis-1,2-Dichloroethene	ug/L												
Iron, Dissolved	mg/L	<.100	<.100	<.100	<.100	<.100	<.100	<.100	<.100	<.100	<.100	<.100	<.100
Methylene Chloride	ug/L												
pH	S.U.	6.50	6.50	6.00	6.30	6.30	6.30	6.30	6.10	6.10	6.90	6.50	7.00
Phenols	mg/L					.0210		<.0200		<.0200		<.0200	
Specific Conductance	umhos/cm	895	787	882	922	887	900	956	992	992	527	146	1128
Tetrachloroethene	ug/L												
Total Organic Halogens	ug/L					18.0		<10.0		27.0		<10.0	
Trichloroethene	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	ug/L												

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

Table 10

Analytical Data Summary for MW-9

Constituents	4/26/2006	10/5/2006	4/23/2007	10/9/2007	4/7/2008	10/14/2008	4/7/2009	10/5/2009	4/1/2010	10/1/2010	4/7/2011	10/27/2011	10/28/2013	10/6/2014
1,1,1-Trichloroethane	<1	<1	<1	<1	<1	<1	<1	<1	<4	<2	<1	<1	<1	<1
1,1-Dichloroethene	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,2-Dichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
1,2-Dichloropropane												<1	<1	<1
Ammonia as N	<.200	<.200	<.200	<.200	<.200	<.200	<.200	<.200	<.200	<.200	<.200	<.200	<.200	<.200
Benzene	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5	<.5
Chemical Oxygen Demand	<5.00	7.70	9.90	<5.00	<5.00	8.20	<5.00	<5.00	<5.00	<5.00	<5.00	7.10	8.90	<5.00
Chloride	8.07	8.80	8.24	8.02	9.70	10.60	11.30	11.80	11.80	12.50	12.60	14.30	12.00	12.90
Chlorodibromomethane												<5	<5	<5
cis-1,2-Dichloroethene												2.70	<1.00	<1.00
Iron, Dissolved	<.100	<.100	<.100	<.100	<.100	<.100	<.100	<.100	<.100	<.100	<.100	<.100	.310	<.100
Methylene Chloride												<5	<5	<5
pH	6.70	6.80	6.80	6.80	6.80	6.90	6.90	6.90	6.80	6.80	6.70	6.90	7.00	6.92
Phenols	<.0200		<.0200		<.0200		<.0200		<.0180		<.0180			
Specific Conductance	1054	1058	1069	1056	1259	1022	1037	992	1215	1066	914	928	1157	1153
Tetrachloroethene												<1	<1	<1
Total Organic Halogens	<20.0		12.0		14.5		10.6		14.2		16.9			
Trichloroethene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride												<1	<1	<1

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

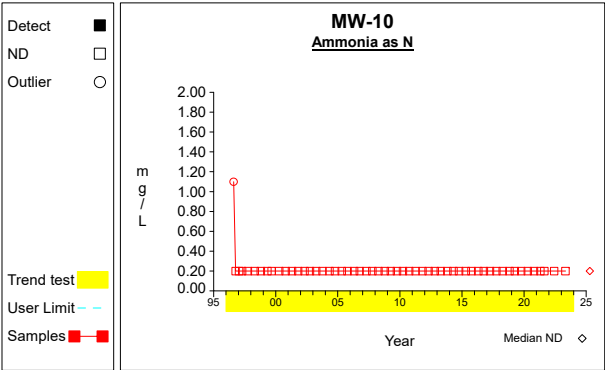
Table 10

Analytical Data Summary for MW-9

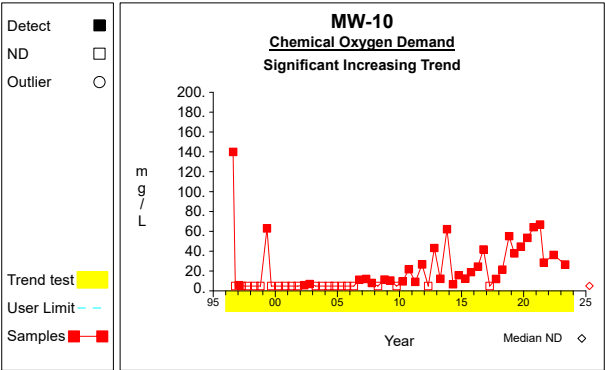
Constituents	10/5/2015	4/26/2016	10/5/2016	4/4/2017	10/10/2017	4/11/2018	10/30/2018	4/1/2019	10/8/2019	4/20/2020	10/20/2020	4/26/2021	8/16/2021
1,1,1-Trichloroethane	<1	<1	<1	<1	<1	<1	<1						
1,1-Dichloroethene													
1,2-Dichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00						
1,2-Dichloropropane	<1	<1	<1	<1	<1	<1	<1						
Ammonia as N	<.200	<.200	<.200	<.200	<.200	<.200	.201	<.200	<.200	<.200	<.200	<.200	<.200
Benzene	<.5	<.5	<.5	<.5	<.5	<.5	<.5						
Chemical Oxygen Demand	5.29	77.80	6.04	<5.00	17.70	19.10	22.40	55.10	22.30	19.60	15.40	19.40	171.00
Chloride	13.90	96.90	29.30	33.60	34.30	39.30	31.10	43.30	55.90	40.60	50.10	27.70	34.00
Chlorodibromomethane	<5	<5	<5	<5	<5	<5	<5						
cis-1,2-Dichloroethene	<1.00	1.69	<1.00	1.09	<1.00	<1.00	1.99						
Iron, Dissolved	<.100	12.400	.409	<.500	<.500	<.500	.864	5.630	<.500	<.500	.737	<.500	.847
Methylene Chloride	<5	<5	<5	<5	<5	<5	<5						
pH	6.80	6.80	6.90	7.03	6.80	6.84	6.64	6.77	6.92	7.21	7.63	7.04	7.04
Phenols		<.0180		<.0192		<.0180		<.0200		<.0196		<.0188	
Specific Conductance	1198	1462	1206	1009	911	1011	1283	1280	1291	1457	1381	1635	1674
Tetrachloroethene	<1	<1	<1	<1	<1	<1	<1						
Total Organic Halogens		<30.0		<30.0		<30.0		<30.0		<40.0		13.0	
Trichloroethene	<1	<1	<1	<1	<1	<1	<1						
Vinyl Chloride	<1	<1	<1	<1	<1	<1	<1						

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

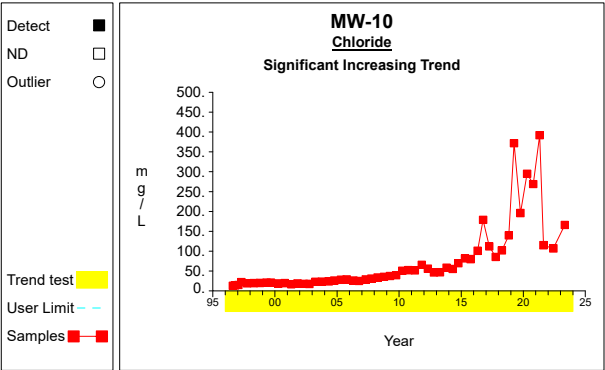
Time Series



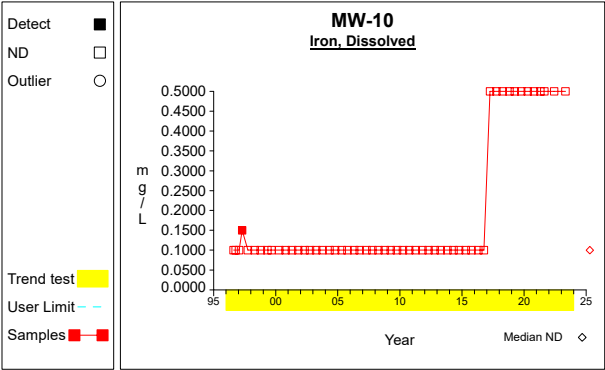
Graph 1



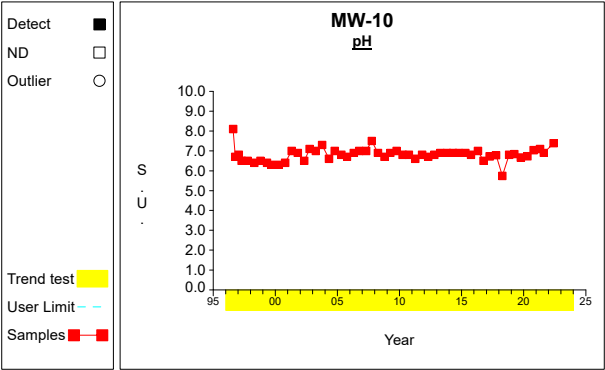
Graph 2



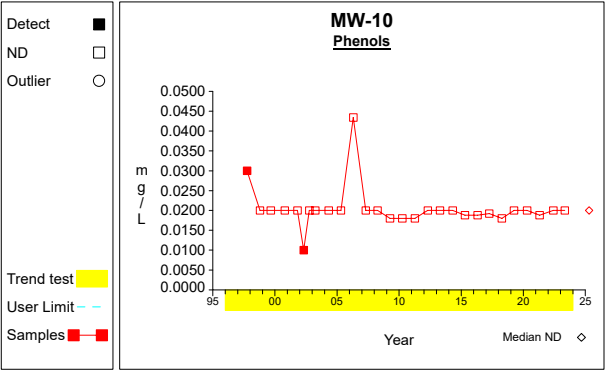
Graph 3



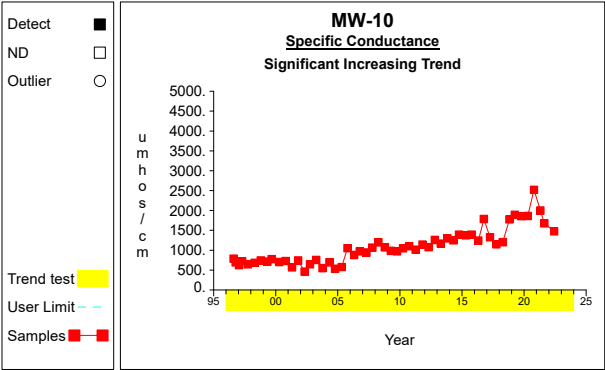
Graph 4



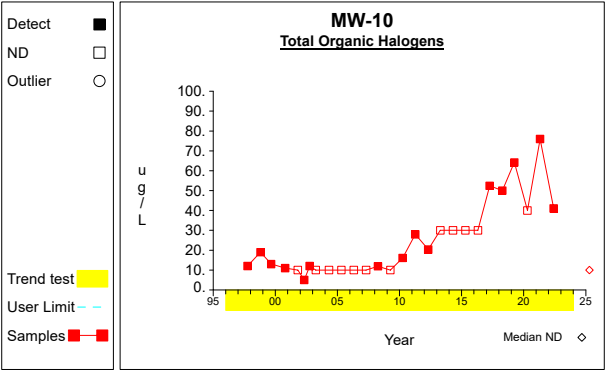
Graph 5



Graph 6

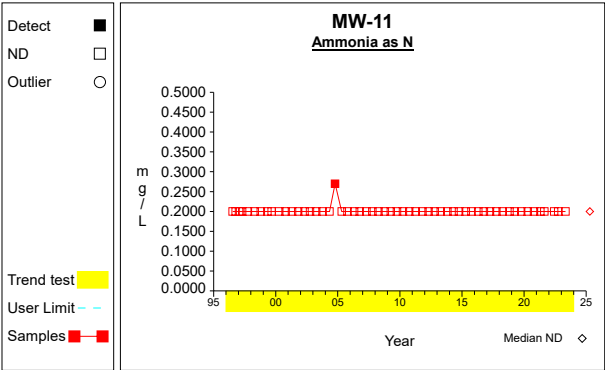


Graph 7

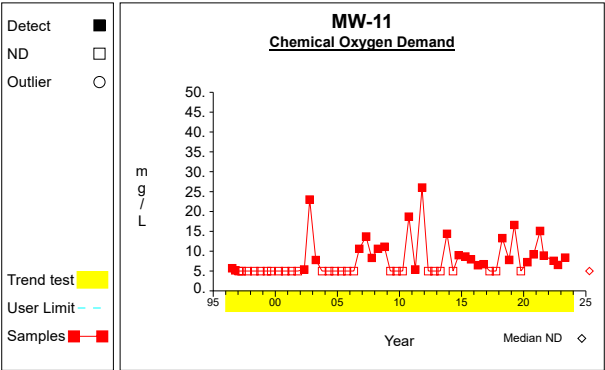


Graph 8

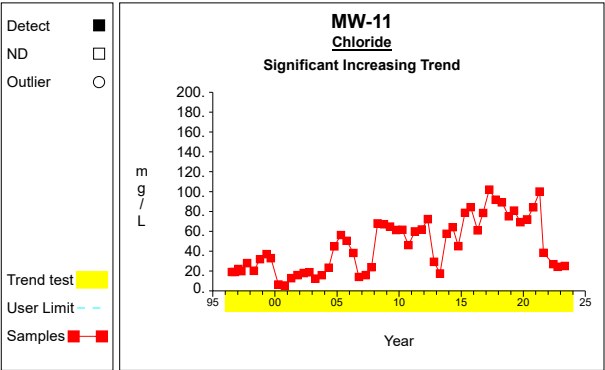
Time Series



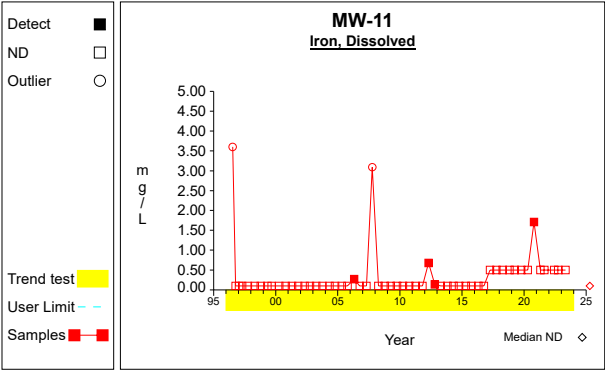
Graph 9



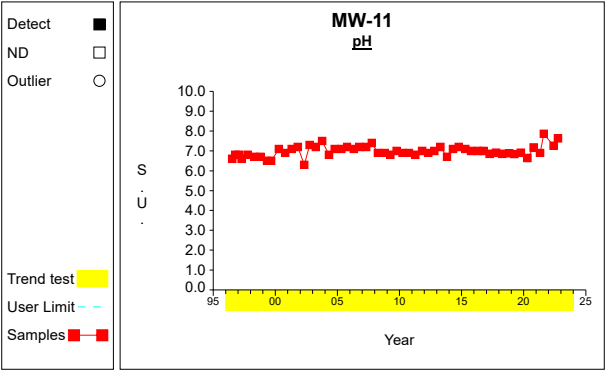
Graph 10



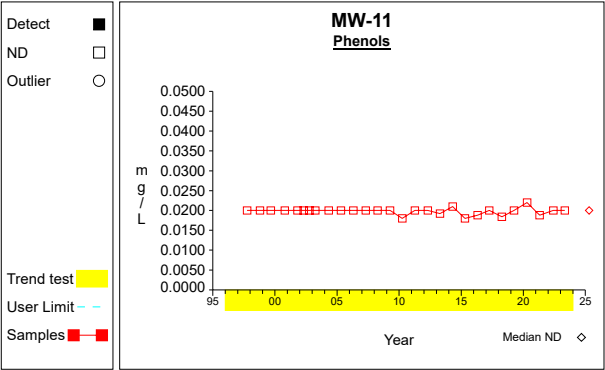
Graph 11



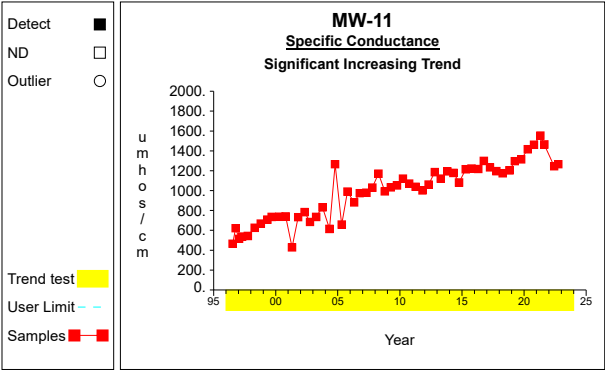
Graph 12



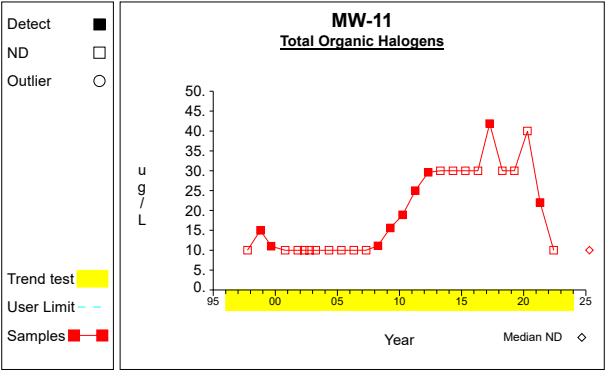
Graph 13



Graph 14

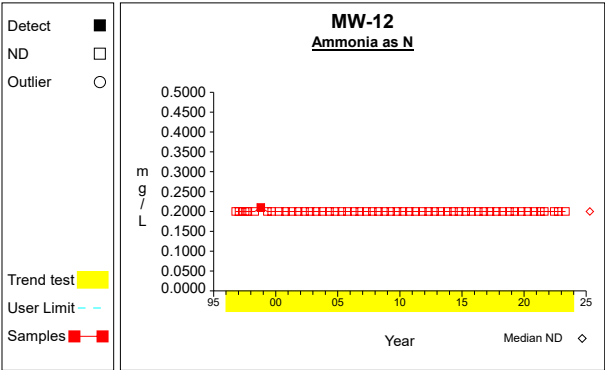


Graph 15

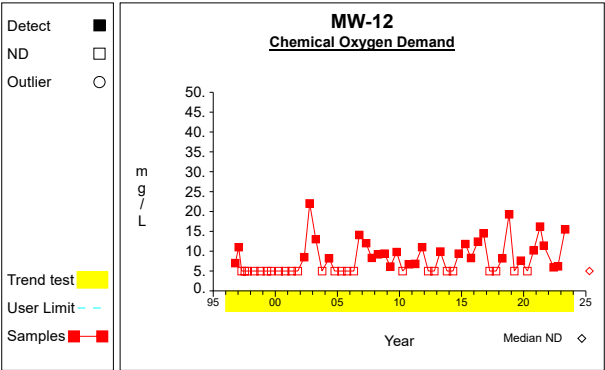


Graph 16

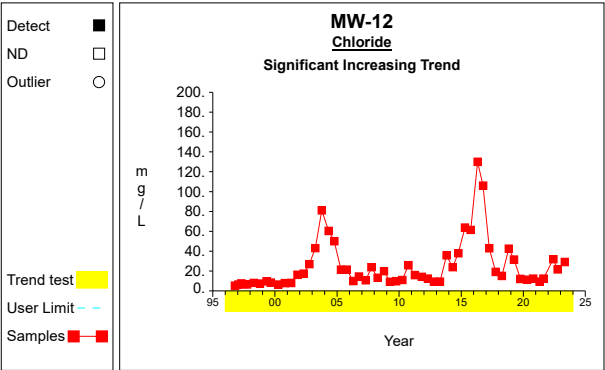
Time Series



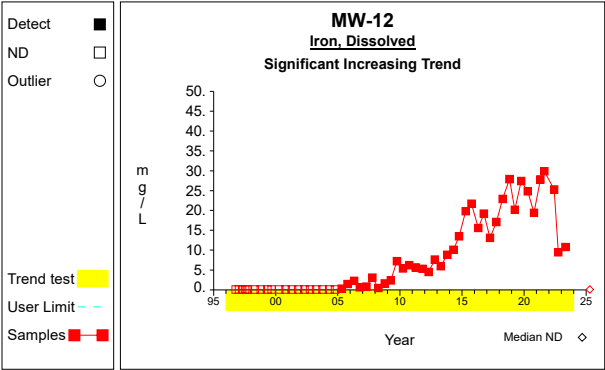
Graph 17



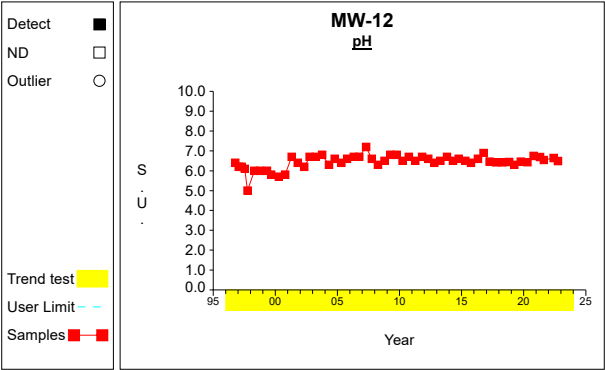
Graph 18



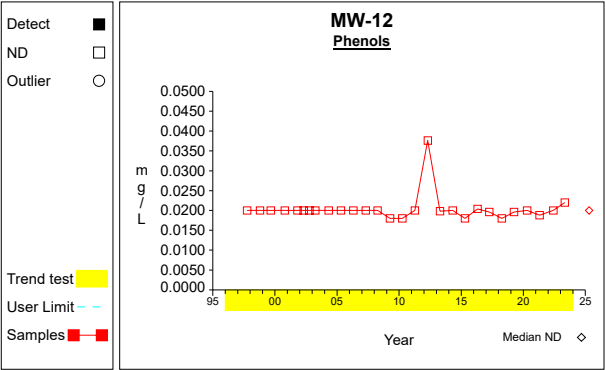
Graph 19



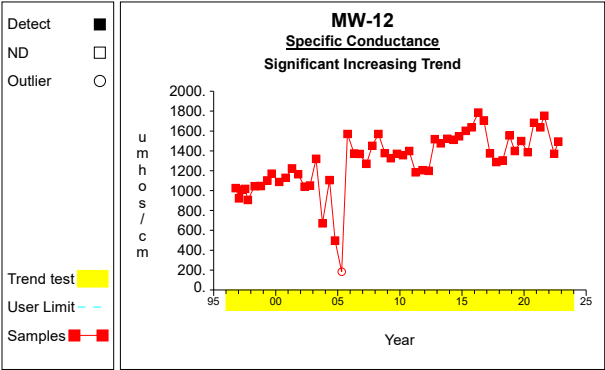
Graph 20



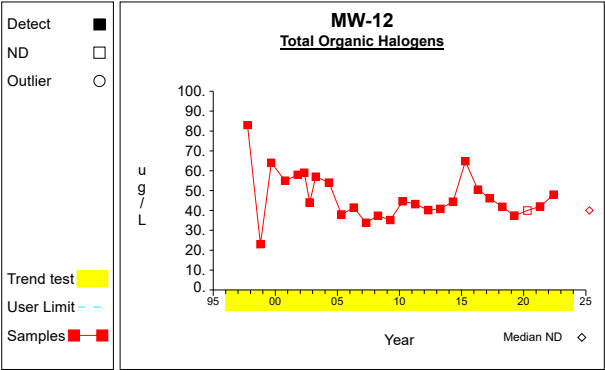
Graph 21



Graph 22

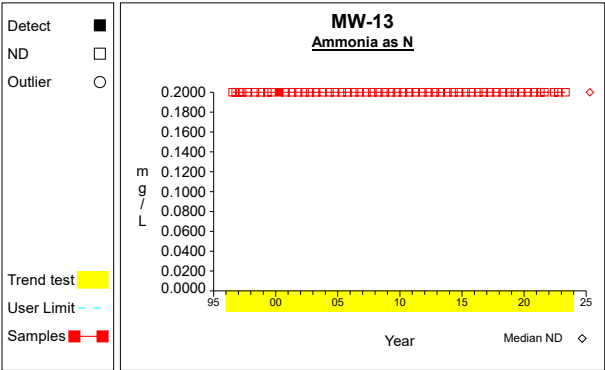


Graph 23

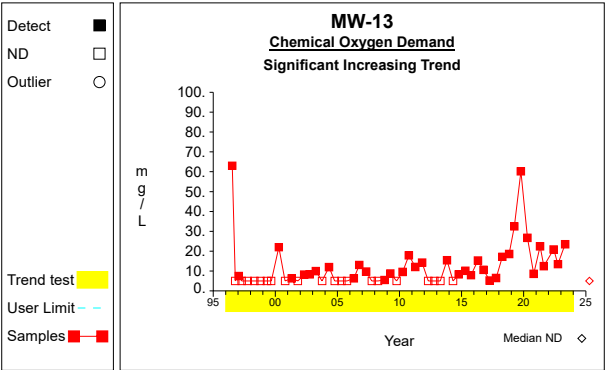


Graph 24

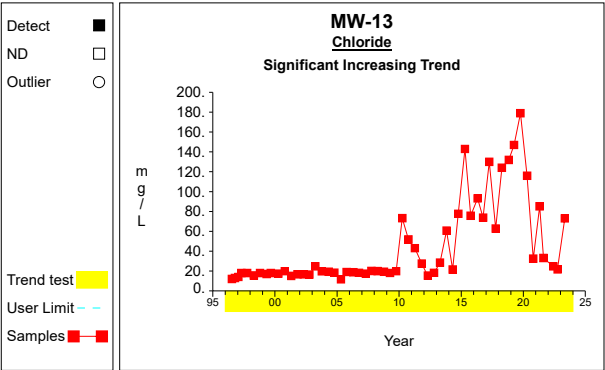
Time Series



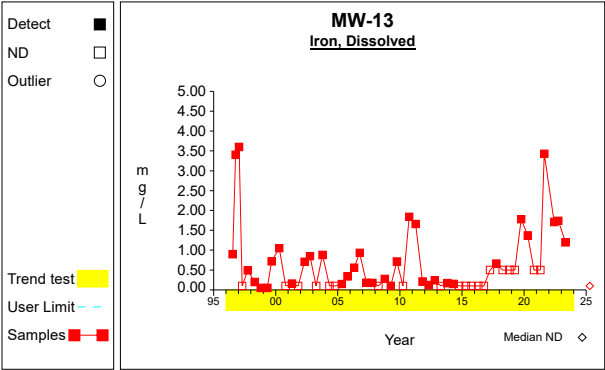
Graph 25



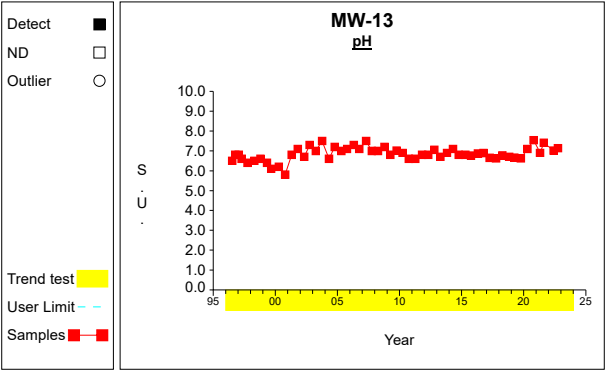
Graph 26



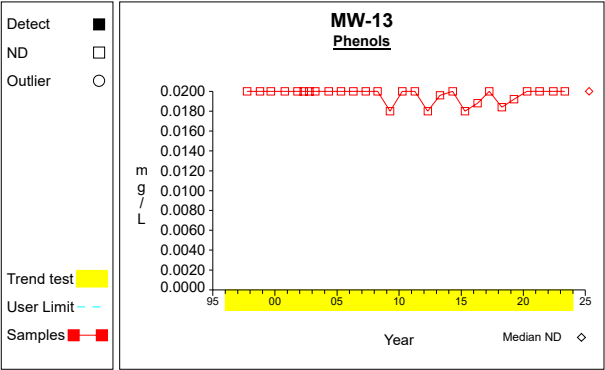
Graph 27



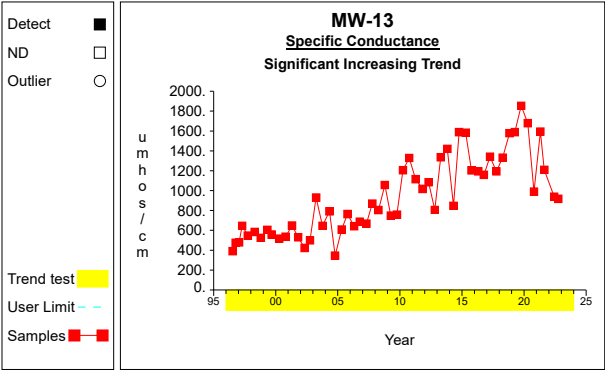
Graph 28



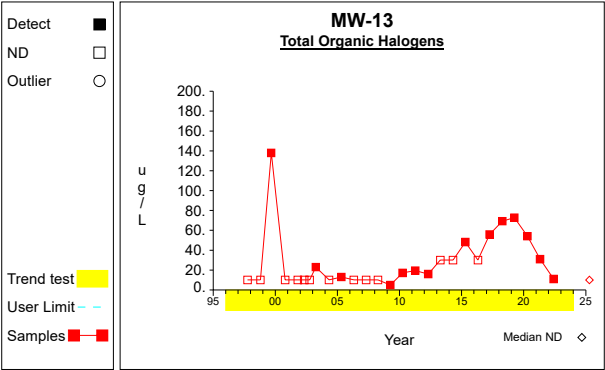
Graph 29



Graph 30

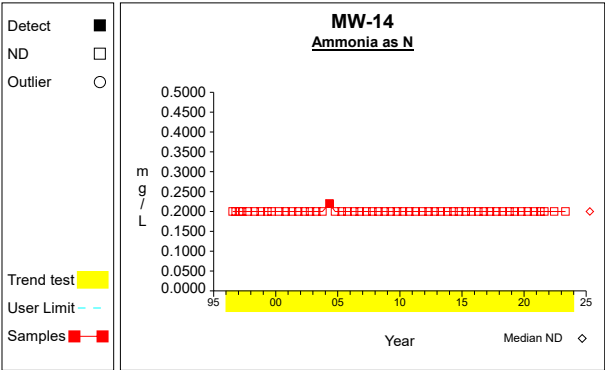


Graph 31

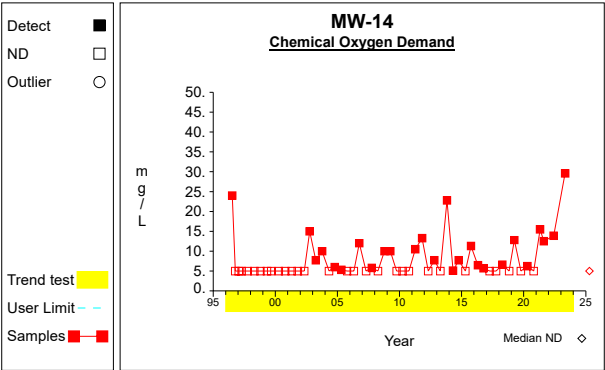


Graph 32

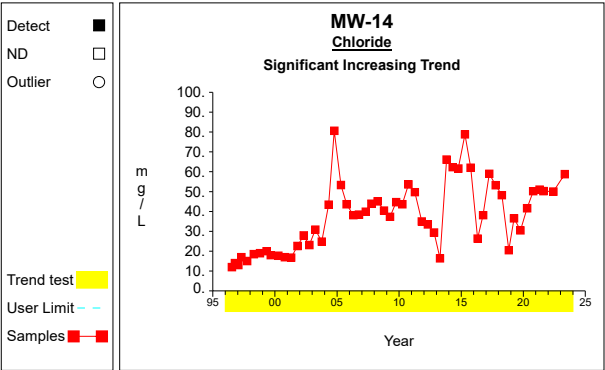
Time Series



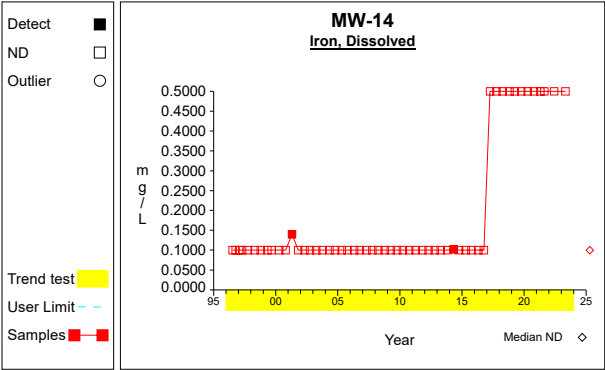
Graph 33



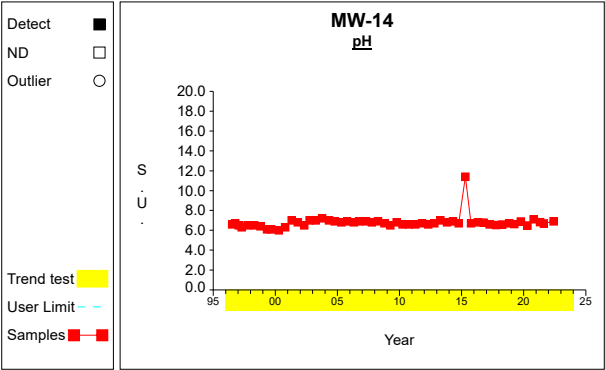
Graph 34



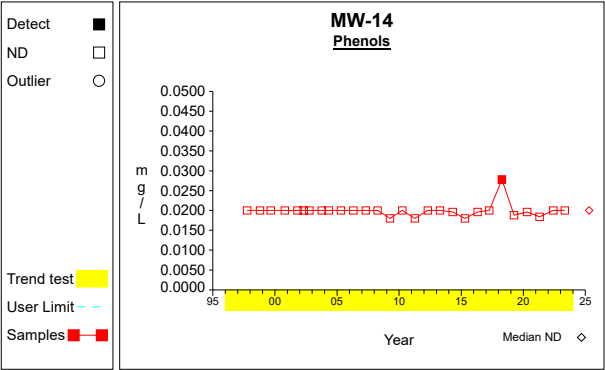
Graph 35



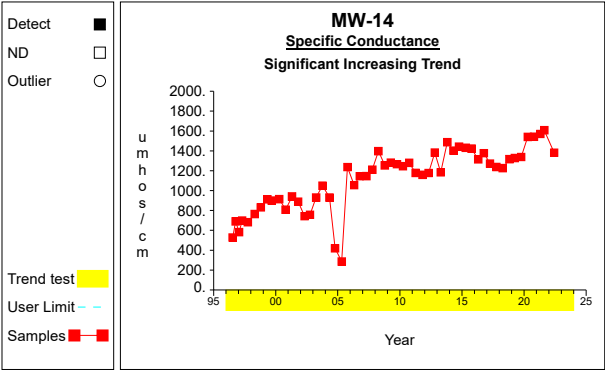
Graph 36



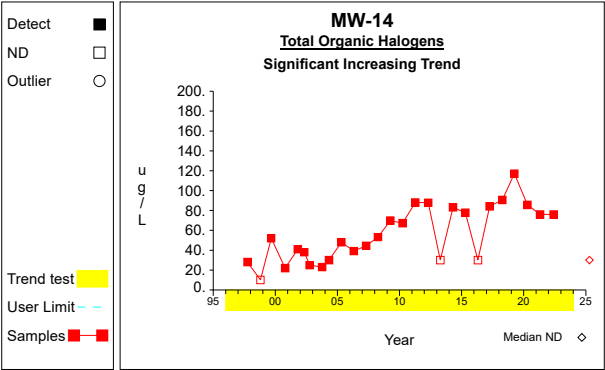
Graph 37



Graph 38

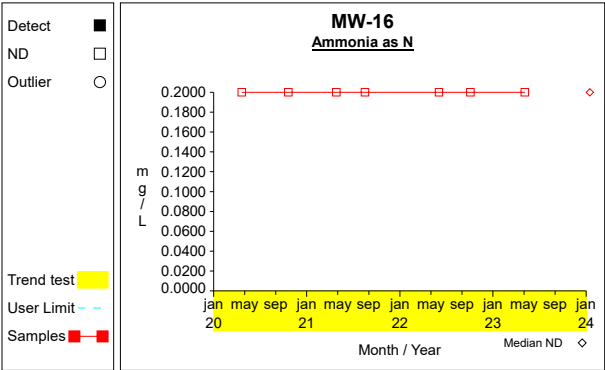


Graph 39

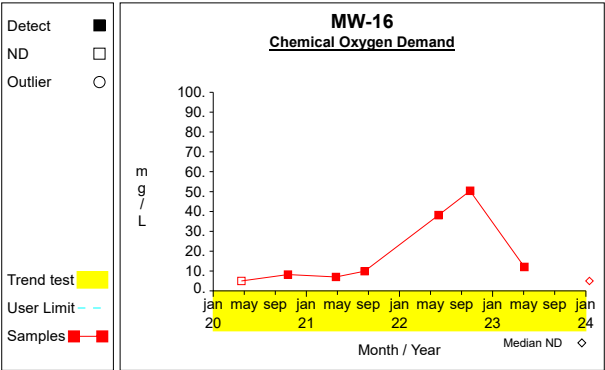


Graph 40

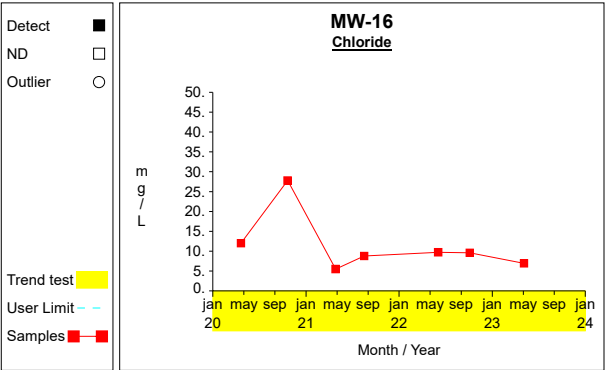
Time Series



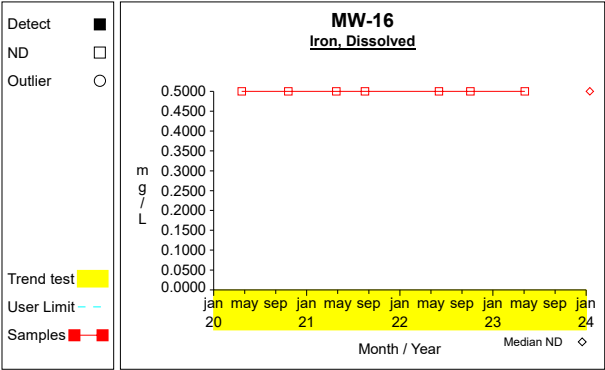
Graph 41



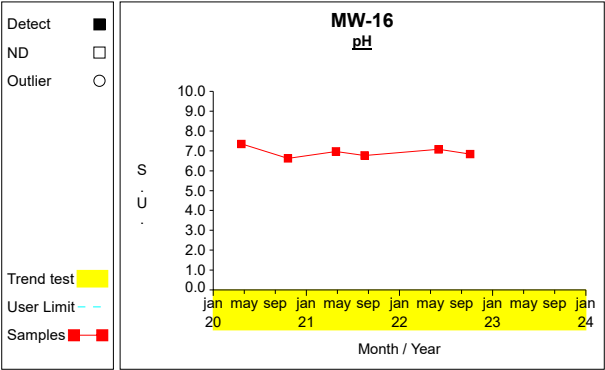
Graph 42



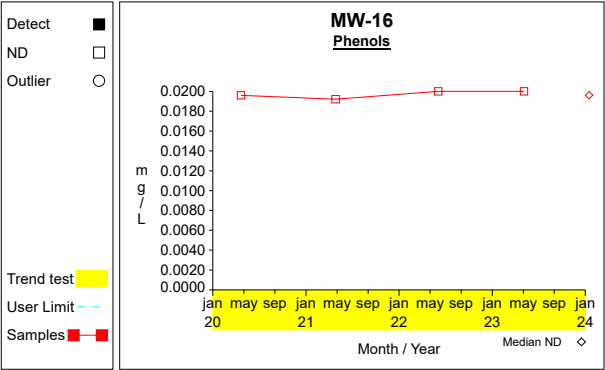
Graph 43



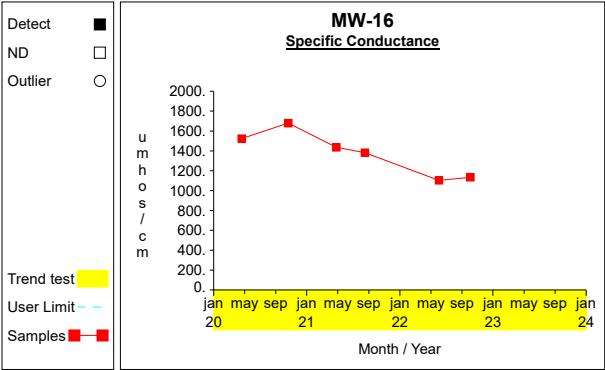
Graph 44



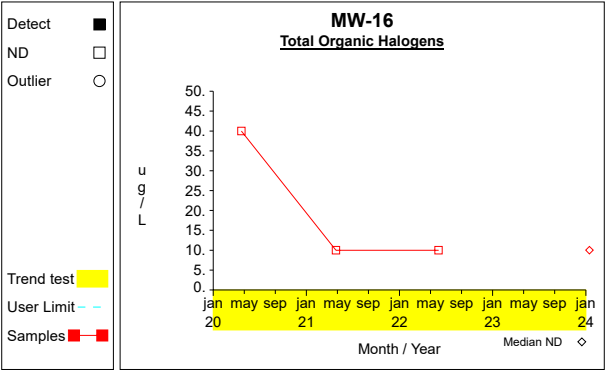
Graph 45



Graph 46

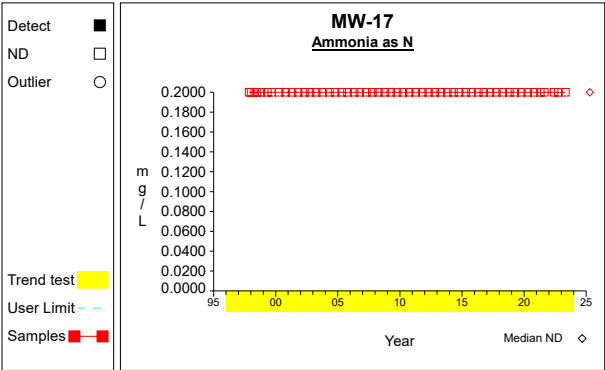


Graph 47

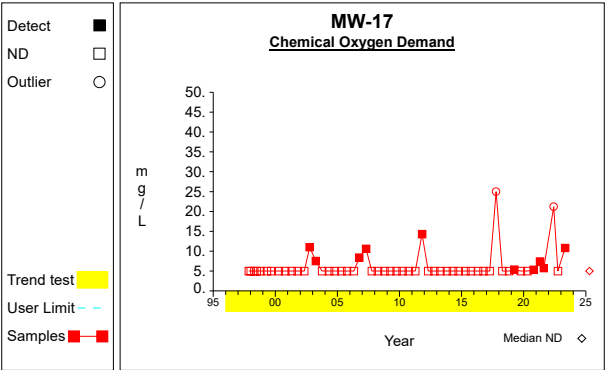


Graph 48

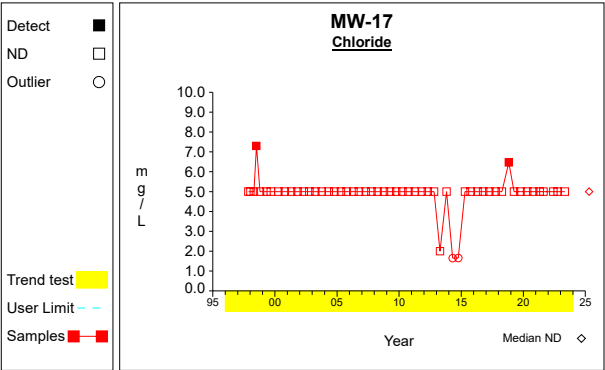
Time Series



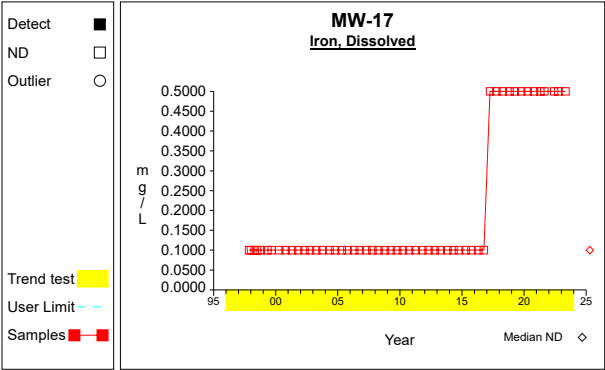
Graph 49



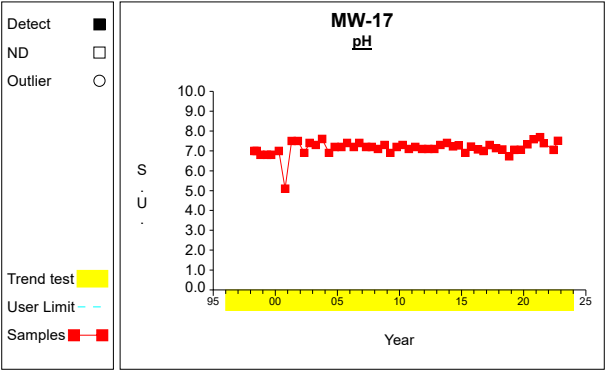
Graph 50



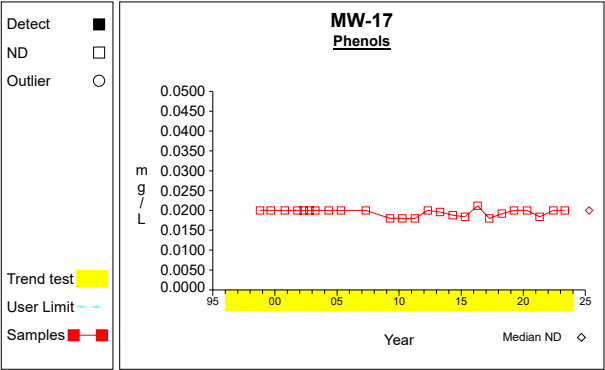
Graph 51



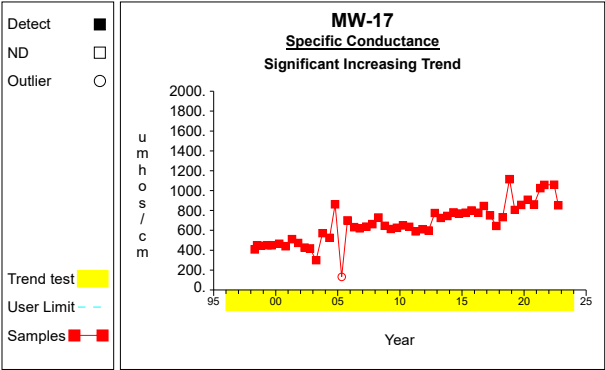
Graph 52



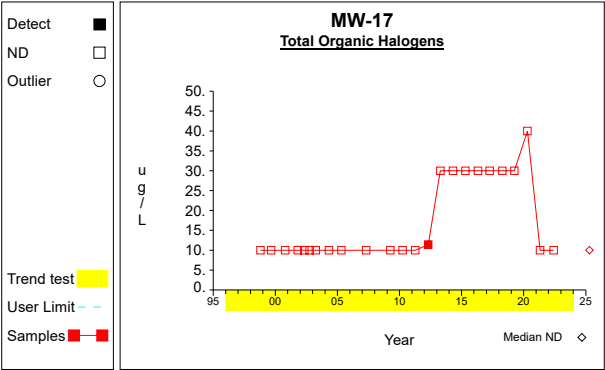
Graph 53



Graph 54

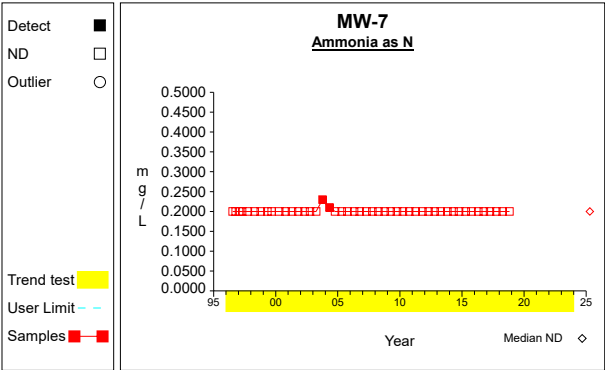


Graph 55

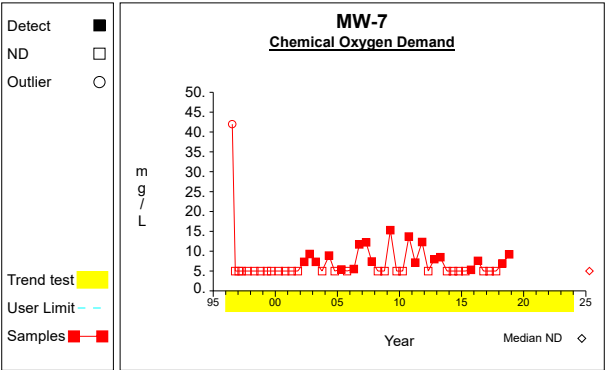


Graph 56

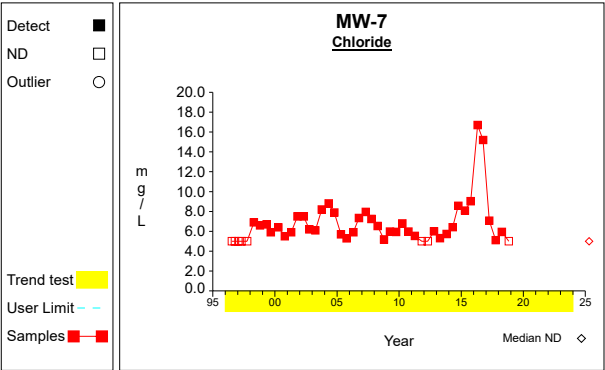
Time Series



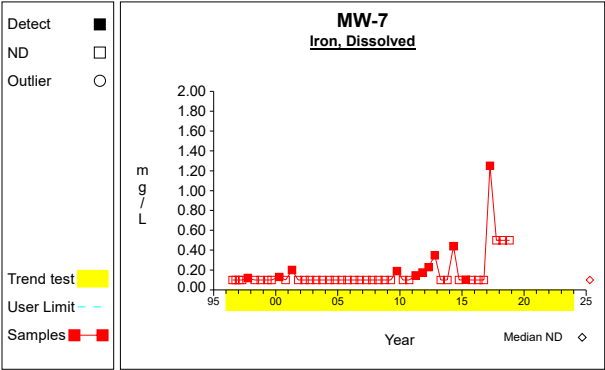
Graph 57



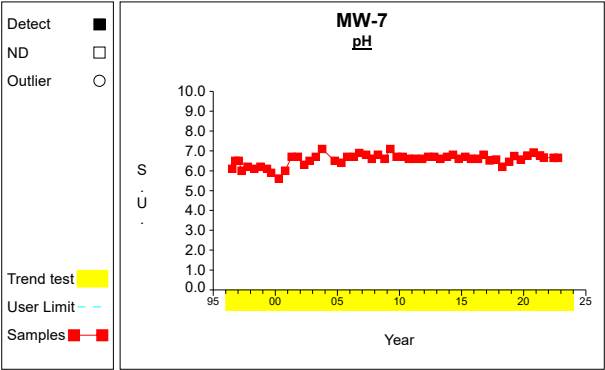
Graph 58



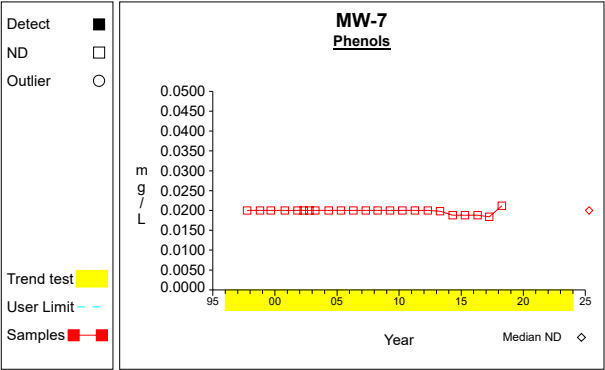
Graph 59



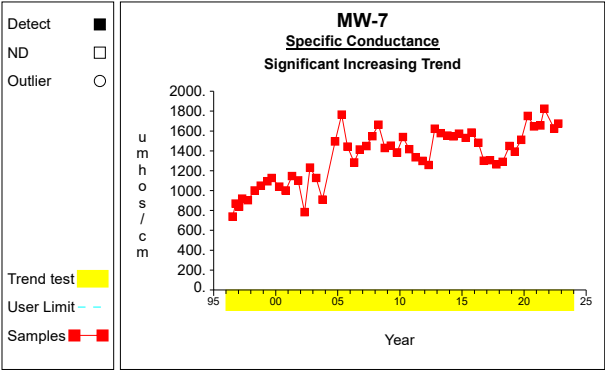
Graph 60



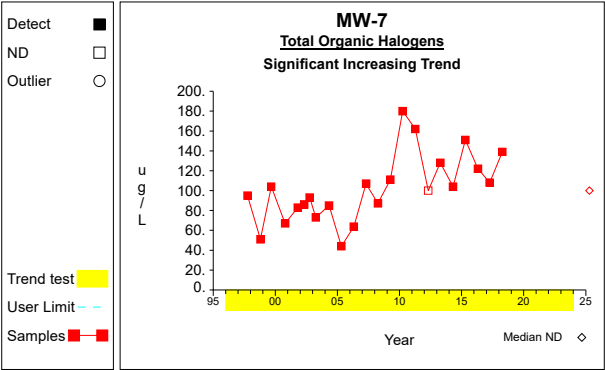
Graph 61



Graph 62

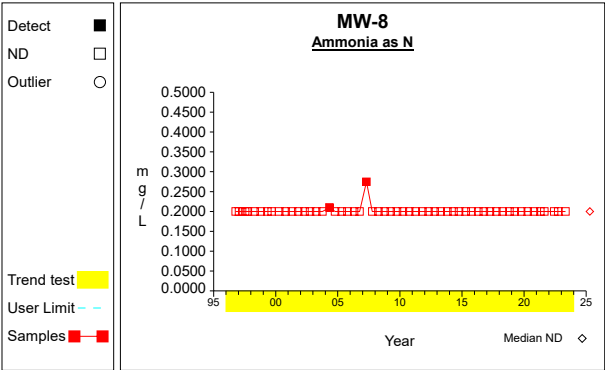


Graph 63

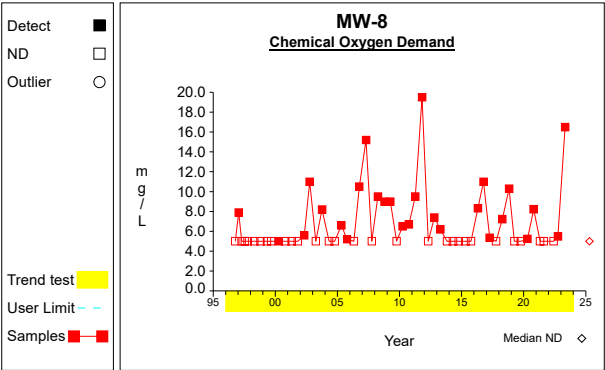


Graph 64

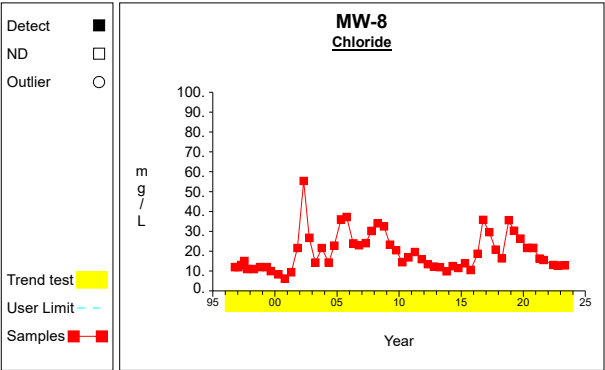
Time Series



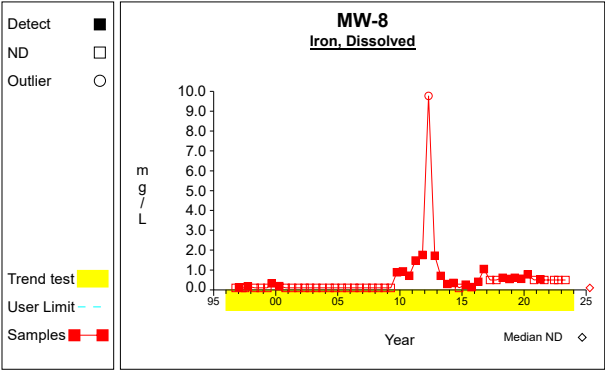
Graph 65



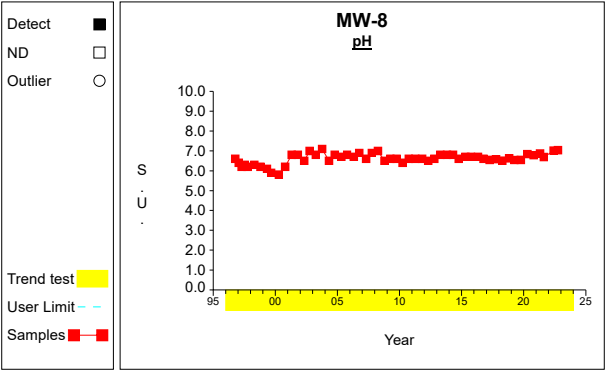
Graph 66



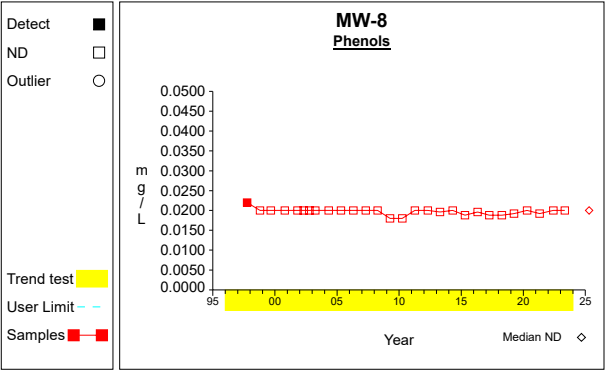
Graph 67



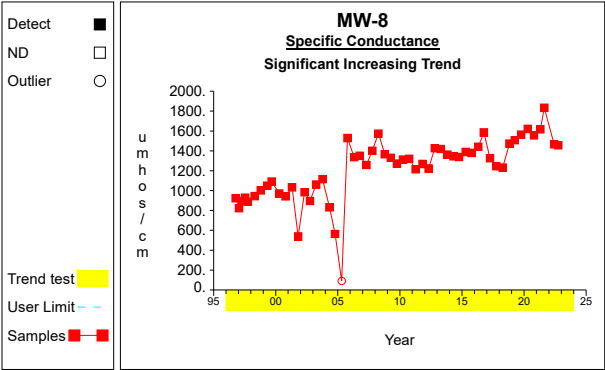
Graph 68



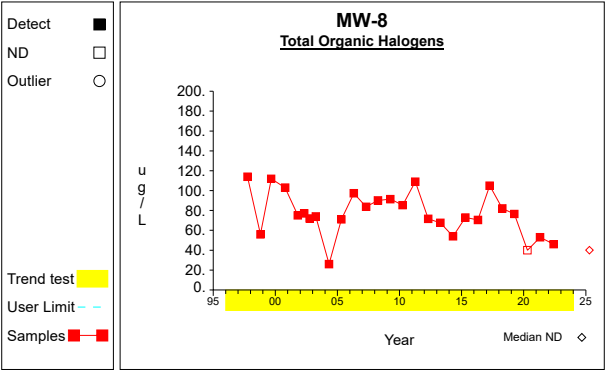
Graph 69



Graph 70

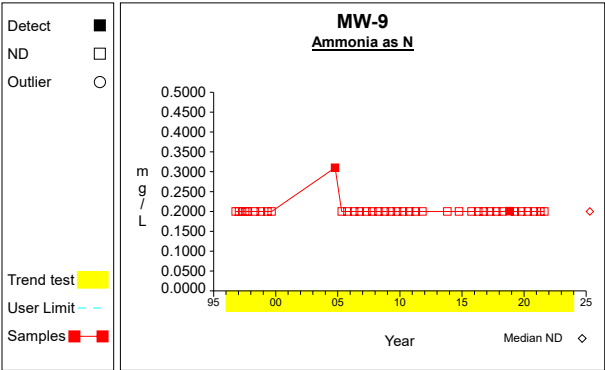


Graph 71

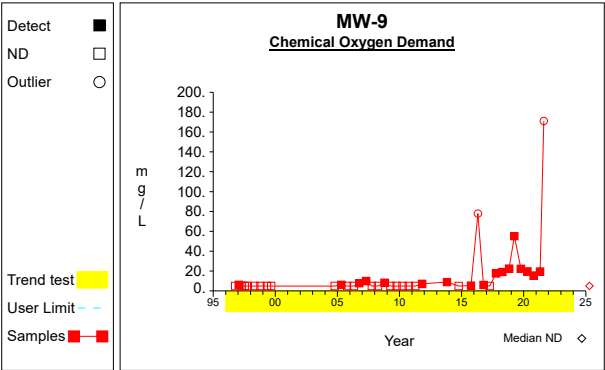


Graph 72

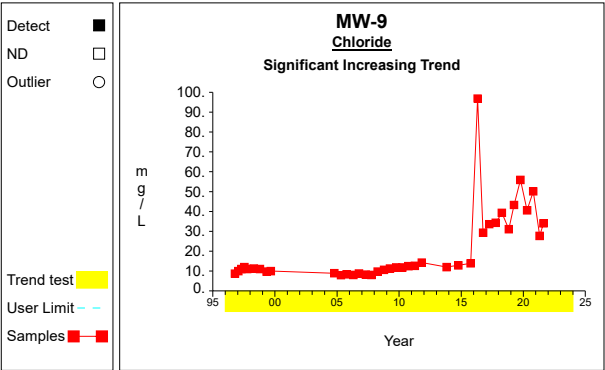
Time Series



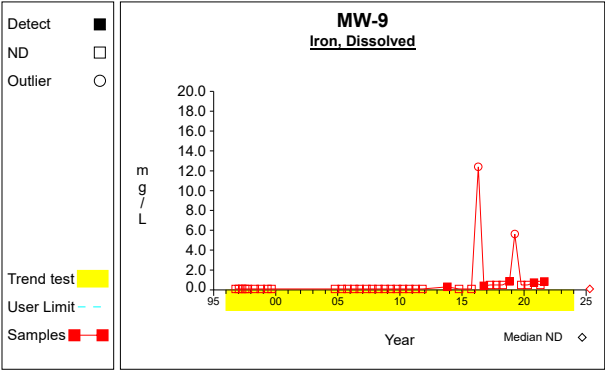
Graph 73



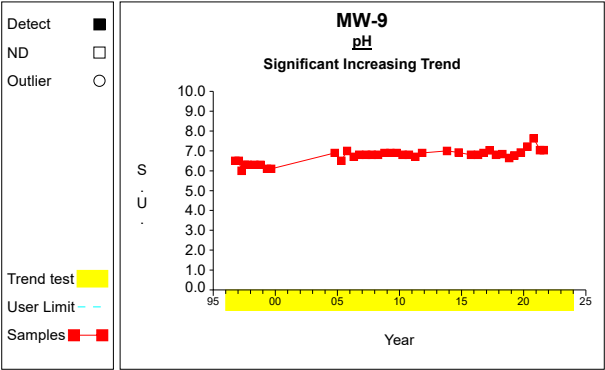
Graph 74



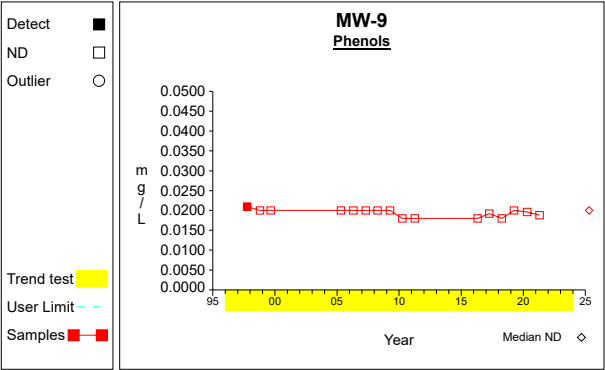
Graph 75



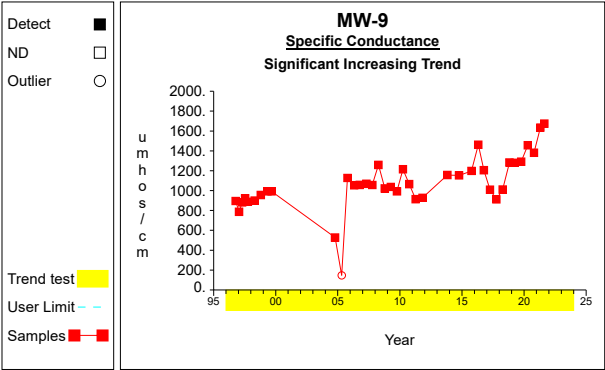
Graph 76



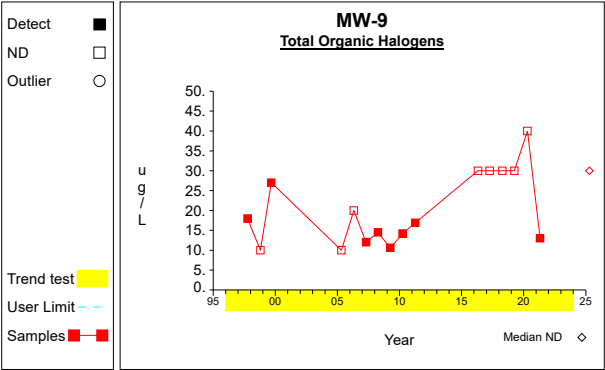
Graph 77



Graph 78



Graph 79



Graph 80

Table 1

Historical Volatile Organic Compound Detections

Constituent	Well	Date	Identifier	Result	Limit	Units
cis-1,2-Dichloroethene	MW-10	10/27/2011		3.59	1.00	ug/L
cis-1,2-Dichloroethene	MW-10	4/16/2013		4.18	1.00	ug/L
cis-1,2-Dichloroethene	MW-10	10/28/2013		3.16	1.00	ug/L
cis-1,2-Dichloroethene	MW-10	4/24/2014		2.79	1.00	ug/L
cis-1,2-Dichloroethene	MW-10	10/06/2014		1.06	1.00	ug/L
cis-1,2-Dichloroethene	MW-10	4/21/2015		3.37	1.00	ug/L
cis-1,2-Dichloroethene	MW-10	10/05/2015		2.49	1.00	ug/L
cis-1,2-Dichloroethene	MW-10	10/05/2016		1.01	1.00	ug/L
cis-1,2-Dichloroethene	MW-10	4/04/2017		1.86	1.00	ug/L
cis-1,2-Dichloroethene	MW-10	10/10/2017		3.00	1.00	ug/L
cis-1,2-Dichloroethene	MW-10	4/11/2018		2.37	1.00	ug/L
cis-1,2-Dichloroethene	MW-10	4/20/2020		5.16	1.00	ug/L
cis-1,2-Dichloroethene	MW-10	10/20/2020		2.39	1.00	ug/L
cis-1,2-Dichloroethene	MW-10	4/26/2021		1.17	1.00	ug/L
cis-1,2-Dichloroethene	MW-10	8/16/2021		2.11	1.00	ug/L
cis-1,2-Dichloroethene	MW-10	6/01/2022		2.16	1.00	ug/L
1,1,1-Trichloroethane	MW-11	10/10/1996		1.1	1.0	ug/L
1,1,1-Trichloroethane	MW-12	10/10/1996		1.8	1.0	ug/L
1,1,1-Trichloroethane	MW-12	1/21/1997		2.1	1.0	ug/L
1,1,1-Trichloroethane	MW-12	7/15/1997		1.9	1.0	ug/L
1,2-Dichloroethane	MW-12	4/30/2004		1.33	1.00	ug/L
Benzene	MW-12	1/21/1997		2.100	1.000	ug/L
Benzene	MW-12	4/17/1997		2.200	1.000	ug/L
Benzene	MW-12	7/15/1997		2.100	1.000	ug/L
Benzene	MW-12	10/04/1997		2.400	1.000	ug/L
Benzene	MW-12	4/22/1998		2.700	1.000	ug/L
Benzene	MW-12	10/19/1998		3.100	1.000	ug/L
Benzene	MW-12	4/30/1999		3.300	1.000	ug/L
Benzene	MW-12	9/01/1999		3.000	1.000	ug/L
Benzene	MW-12	4/12/2000		3.000	1.000	ug/L
Benzene	MW-12	10/17/2000		3.500	1.000	ug/L
Benzene	MW-12	4/25/2001		2.800	1.000	ug/L
Benzene	MW-12	10/23/2001		4.300	1.000	ug/L
Benzene	MW-12	4/28/2002		3.600	1.000	ug/L
Benzene	MW-12	10/06/2002		3.590	1.000	ug/L
Benzene	MW-12	10/07/2003		2.880	1.000	ug/L
Benzene	MW-12	10/12/2004		2.740	1.000	ug/L
Benzene	MW-12	4/26/2005		2.300	1.000	ug/L
Benzene	MW-12	10/11/2005		1.760	1.000	ug/L
Benzene	MW-12	4/26/2006		1.220	1.000	ug/L
Benzene	MW-12	10/05/2006		1.110	1.000	ug/L
Benzene	MW-12	4/23/2007		1.330	1.000	ug/L
Benzene	MW-12	10/09/2007		1.690	1.000	ug/L
Benzene	MW-12	4/07/2008		1.240	1.000	ug/L
Benzene	MW-12	10/14/2008		1.200	1.000	ug/L
Benzene	MW-12	4/07/2009		1.410	1.000	ug/L
Benzene	MW-12	10/05/2009		1.390	1.000	ug/L
Benzene	MW-12	4/01/2010		1.390	1.000	ug/L
Benzene	MW-12	10/01/2010		1.240	1.000	ug/L
Benzene	MW-12	4/07/2011		1.300	1.000	ug/L
Benzene	MW-12	10/27/2011		.920	.500	ug/L
Benzene	MW-12	4/23/2012		.940	.500	ug/L
Benzene	MW-12	10/23/2012		.920	.500	ug/L
Benzene	MW-12	4/16/2013		1.050	1.000	ug/L
Benzene	MW-12	10/28/2013		1.200	1.000	ug/L
Benzene	MW-12	4/24/2014		1.330	1.000	ug/L
Benzene	MW-12	10/06/2014		1.070	1.000	ug/L
Benzene	MW-12	4/21/2015		1.320	1.000	ug/L
Benzene	MW-12	10/05/2015		1.620	1.000	ug/L
Benzene	MW-12	4/26/2016		1.490	1.000	ug/L
Benzene	MW-12	10/05/2016		1.350	1.000	ug/L
Benzene	MW-12	4/04/2017		1.340	1.000	ug/L
Benzene	MW-12	10/10/2017		1.650	1.000	ug/L
Benzene	MW-12	4/11/2018		1.610	1.000	ug/L
Benzene	MW-12	10/30/2018		1.520	1.000	ug/L
Benzene	MW-12	4/01/2019		1.450	1.000	ug/L
Benzene	MW-12	10/08/2019		1.870	1.000	ug/L
Benzene	MW-12	4/20/2020		1.860	1.000	ug/L
Benzene	MW-12	10/20/2020		2.010	1.000	ug/L
Benzene	MW-12	4/26/2021		1.840	1.000	ug/L
Benzene	MW-12	8/16/2021		1.950	1.000	ug/L
Benzene	MW-12	6/01/2022		.784	.500	ug/L
Benzene	MW-12	10/03/2022		1.460	1.000	ug/L
Benzene	MW-12	5/03/2023		1.270	.500	ug/L
cis-1,2-Dichloroethene	MW-12	10/27/2011		33.0	1.0	ug/L
cis-1,2-Dichloroethene	MW-12	4/16/2013		58.3	1.0	ug/L

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

Table 1

Historical Volatile Organic Compound Detections

Constituent	Well	Date	Identifier	Result	Limit	Units
cis-1,2-Dichloroethene	MW-12	10/28/2013		51.7	1.0	ug/L
cis-1,2-Dichloroethene	MW-12	4/24/2014		57.3	1.0	ug/L
cis-1,2-Dichloroethene	MW-12	10/06/2014		38.7	1.0	ug/L
cis-1,2-Dichloroethene	MW-12	4/21/2015		40.6	1.0	ug/L
cis-1,2-Dichloroethene	MW-12	10/05/2015		55.9	1.0	ug/L
cis-1,2-Dichloroethene	MW-12	4/26/2016		42.8	1.0	ug/L
cis-1,2-Dichloroethene	MW-12	10/05/2016		35.7	1.0	ug/L
cis-1,2-Dichloroethene	MW-12	4/04/2017		37.4	1.0	ug/L
cis-1,2-Dichloroethene	MW-12	10/10/2017		48.9	1.0	ug/L
cis-1,2-Dichloroethene	MW-12	4/11/2018		50.4	1.0	ug/L
cis-1,2-Dichloroethene	MW-12	10/30/2018		29.6	1.0	ug/L
cis-1,2-Dichloroethene	MW-12	4/01/2019		34.3	1.0	ug/L
cis-1,2-Dichloroethene	MW-12	10/08/2019		47.3	1.0	ug/L
cis-1,2-Dichloroethene	MW-12	4/20/2020		52.4	1.0	ug/L
cis-1,2-Dichloroethene	MW-12	10/20/2020		55.1	1.0	ug/L
cis-1,2-Dichloroethene	MW-12	4/26/2021		49.0	1.0	ug/L
cis-1,2-Dichloroethene	MW-12	8/16/2021		64.7	1.0	ug/L
cis-1,2-Dichloroethene	MW-12	6/01/2022		31.0	1.0	ug/L
cis-1,2-Dichloroethene	MW-12	10/03/2022		35.2	1.0	ug/L
cis-1,2-Dichloroethene	MW-12	5/03/2023		31.9	1.0	ug/L
Trichloroethene	MW-12	10/10/1996		2.80	1.00	ug/L
Trichloroethene	MW-12	1/21/1997		5.50	1.00	ug/L
Trichloroethene	MW-12	4/17/1997		4.90	1.00	ug/L
Trichloroethene	MW-12	7/15/1997		4.70	1.00	ug/L
Trichloroethene	MW-12	10/04/1997		4.70	1.00	ug/L
Trichloroethene	MW-12	4/22/1998		4.80	1.00	ug/L
Trichloroethene	MW-12	10/19/1998		5.40	1.00	ug/L
Trichloroethene	MW-12	4/30/1999		5.60	1.00	ug/L
Trichloroethene	MW-12	9/01/1999		4.80	1.00	ug/L
Trichloroethene	MW-12	4/12/2000		5.30	1.00	ug/L
Trichloroethene	MW-12	10/17/2000		5.40	1.00	ug/L
Trichloroethene	MW-12	4/25/2001		4.70	1.00	ug/L
Trichloroethene	MW-12	10/23/2001		5.60	1.00	ug/L
Trichloroethene	MW-12	4/28/2002		4.60	1.00	ug/L
Trichloroethene	MW-12	10/06/2002		5.35	1.00	ug/L
Trichloroethene	MW-12	10/07/2003		3.93	1.00	ug/L
Trichloroethene	MW-12	4/30/2004		6.57	1.00	ug/L
Trichloroethene	MW-12	10/12/2004		4.05	1.00	ug/L
Trichloroethene	MW-12	4/26/2005		3.60	1.00	ug/L
Trichloroethene	MW-12	10/11/2005		4.19	1.00	ug/L
Trichloroethene	MW-12	4/26/2006		2.95	1.00	ug/L
Trichloroethene	MW-12	10/05/2006		1.88	1.00	ug/L
Trichloroethene	MW-12	4/23/2007		1.36	1.00	ug/L
Trichloroethene	MW-12	10/09/2007		1.76	1.00	ug/L
Trichloroethene	MW-12	4/07/2008		1.33	1.00	ug/L
Trichloroethene	MW-12	10/14/2008		1.33	1.00	ug/L
Trichloroethene	MW-12	4/07/2009		1.31	1.00	ug/L
Trichloroethene	MW-12	10/05/2009		2.32	1.00	ug/L
Trichloroethene	MW-12	4/01/2010		2.68	1.00	ug/L
Trichloroethene	MW-12	10/01/2010		1.93	1.00	ug/L
Trichloroethene	MW-12	4/07/2011		2.40	1.00	ug/L
Trichloroethene	MW-12	10/27/2011		2.29	1.00	ug/L
Trichloroethene	MW-12	4/23/2012		2.04	1.00	ug/L
Trichloroethene	MW-12	10/23/2012		2.60	1.00	ug/L
Trichloroethene	MW-12	4/16/2013		3.03	1.00	ug/L
Trichloroethene	MW-12	10/28/2013		2.44	1.00	ug/L
Trichloroethene	MW-12	4/24/2014		2.46	1.00	ug/L
Trichloroethene	MW-12	10/06/2014		1.88	1.00	ug/L
Trichloroethene	MW-12	4/21/2015		1.77	1.00	ug/L
Trichloroethene	MW-12	10/05/2015		2.37	1.00	ug/L
Trichloroethene	MW-12	10/05/2016		1.36	1.00	ug/L
Trichloroethene	MW-12	4/04/2017		1.41	1.00	ug/L
Trichloroethene	MW-12	10/10/2017		1.50	1.00	ug/L
Trichloroethene	MW-12	4/11/2018		1.23	1.00	ug/L
Trichloroethene	MW-12	4/01/2019		1.18	1.00	ug/L
Trichloroethene	MW-12	10/20/2020		1.54	1.00	ug/L
Vinyl Chloride	MW-12	10/27/2011		1.46	1.00	ug/L
Vinyl Chloride	MW-12	4/16/2013		2.51	1.00	ug/L
Vinyl Chloride	MW-12	10/28/2013		2.15	1.00	ug/L
Vinyl Chloride	MW-12	4/24/2014		2.70	1.00	ug/L
Vinyl Chloride	MW-12	10/06/2014		2.36	1.00	ug/L
Vinyl Chloride	MW-12	4/21/2015		2.03	1.00	ug/L
Vinyl Chloride	MW-12	10/05/2015		2.59	1.00	ug/L
Vinyl Chloride	MW-12	4/26/2016		2.73	1.00	ug/L
Vinyl Chloride	MW-12	10/05/2016		4.56	1.00	ug/L
Vinyl Chloride	MW-12	4/04/2017		3.29	1.00	ug/L

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

Table 1

Historical Volatile Organic Compound Detections

Constituent	Well	Date	Identifier	Result	Limit	Units
Vinyl Chloride	MW-12	10/10/2017		5.18	1.00	ug/L
Vinyl Chloride	MW-12	4/11/2018		4.48	1.00	ug/L
Vinyl Chloride	MW-12	10/30/2018		9.14	1.00	ug/L
Vinyl Chloride	MW-12	4/01/2019		8.96	1.00	ug/L
Vinyl Chloride	MW-12	10/08/2019		6.50	1.00	ug/L
Vinyl Chloride	MW-12	4/20/2020		4.90	1.00	ug/L
Vinyl Chloride	MW-12	10/20/2020		5.41	1.00	ug/L
Vinyl Chloride	MW-12	4/26/2021		3.57	1.00	ug/L
Vinyl Chloride	MW-12	8/16/2021		4.08	1.00	ug/L
Vinyl Chloride	MW-12	6/01/2022		1.56	1.00	ug/L
Vinyl Chloride	MW-12	10/03/2022		7.15	1.00	ug/L
Vinyl Chloride	MW-12	5/03/2023		4.19	1.00	ug/L
cis-1,2-Dichloroethene	MW-13	10/27/2011		5.56	1.00	ug/L
1,1,1-Trichloroethane	MW-14	10/10/1996		4.20	1.00	ug/L
1,1,1-Trichloroethane	MW-14	1/21/1997		3.30	1.00	ug/L
1,1,1-Trichloroethane	MW-14	10/12/2004		1.79	1.00	ug/L
1,1,1-Trichloroethane	MW-14	4/26/2005		1.42	1.00	ug/L
1,1,1-Trichloroethane	MW-14	10/11/2005		1.29	1.00	ug/L
1,1,1-Trichloroethane	MW-14	10/05/2006		1.13	1.00	ug/L
1,1,1-Trichloroethane	MW-14	4/23/2007		1.24	1.00	ug/L
1,1,1-Trichloroethane	MW-14	10/09/2007		1.04	1.00	ug/L
1,2-Dichloroethane	MW-14	10/04/1997		.41	.40	ug/L
1,2-Dichloroethane	MW-14	10/19/1998		.54	.40	ug/L
1,2-Dichloroethane	MW-14	4/30/1999		1.10	1.00	ug/L
1,2-Dichloroethane	MW-14	4/25/2001		.40	.40	ug/L
1,2-Dichloroethane	MW-14	10/23/2001		.50	.40	ug/L
1,2-Dichloropropane	MW-14	4/04/2017		1.08	1.00	ug/L
1,2-Dichloropropane	MW-14	10/10/2017		1.42	1.00	ug/L
1,2-Dichloropropane	MW-14	4/11/2018		1.13	1.00	ug/L
1,2-Dichloropropane	MW-14	10/20/2020		1.17	1.00	ug/L
1,2-Dichloropropane	MW-14	4/26/2021		1.03	1.00	ug/L
1,2-Dichloropropane	MW-14	8/16/2021		1.55	1.00	ug/L
Benzene	MW-14	4/30/2004		2.690	.500	ug/L
Benzene	MW-14	10/01/2010		.530	.500	ug/L
Benzene	MW-14	4/07/2011		.620	.500	ug/L
Benzene	MW-14	10/27/2011		.560	.500	ug/L
Benzene	MW-14	4/23/2012		.610	.500	ug/L
Benzene	MW-14	4/04/2017		.644	.500	ug/L
Benzene	MW-14	10/10/2017		.781	.500	ug/L
Benzene	MW-14	4/11/2018		.592	.500	ug/L
Benzene	MW-14	4/01/2019		.561	.500	ug/L
Benzene	MW-14	10/08/2019		.627	.500	ug/L
Benzene	MW-14	4/20/2020		.628	.500	ug/L
Benzene	MW-14	10/20/2020		.713	.500	ug/L
cis-1,2-Dichloroethene	MW-14	10/27/2011		49.8	1.0	ug/L
cis-1,2-Dichloroethene	MW-14	4/16/2013		19.2	1.0	ug/L
cis-1,2-Dichloroethene	MW-14	10/28/2013		52.0	1.0	ug/L
cis-1,2-Dichloroethene	MW-14	4/24/2014		42.2	1.0	ug/L
cis-1,2-Dichloroethene	MW-14	10/06/2014		34.7	1.0	ug/L
cis-1,2-Dichloroethene	MW-14	4/21/2015		27.3	1.0	ug/L
cis-1,2-Dichloroethene	MW-14	10/05/2015		34.7	1.0	ug/L
cis-1,2-Dichloroethene	MW-14	4/26/2016		11.3	1.0	ug/L
cis-1,2-Dichloroethene	MW-14	10/05/2016		29.1	1.0	ug/L
cis-1,2-Dichloroethene	MW-14	4/04/2017		49.6	1.0	ug/L
cis-1,2-Dichloroethene	MW-14	10/10/2017		69.2	1.0	ug/L
cis-1,2-Dichloroethene	MW-14	4/11/2018		59.8	1.0	ug/L
cis-1,2-Dichloroethene	MW-14	10/30/2018		21.4	1.0	ug/L
cis-1,2-Dichloroethene	MW-14	4/01/2019		45.3	1.0	ug/L
cis-1,2-Dichloroethene	MW-14	10/08/2019		54.4	1.0	ug/L
cis-1,2-Dichloroethene	MW-14	4/20/2020		63.6	1.0	ug/L
cis-1,2-Dichloroethene	MW-14	10/20/2020		73.2	1.0	ug/L
cis-1,2-Dichloroethene	MW-14	4/26/2021		56.1	1.0	ug/L
cis-1,2-Dichloroethene	MW-14	8/16/2021		74.3	1.0	ug/L
cis-1,2-Dichloroethene	MW-14	6/01/2022		33.3	1.0	ug/L
cis-1,2-Dichloroethene	MW-14	5/03/2023		36.6	1.0	ug/L
Methylene Chloride	MW-14	10/27/2011		7.72	1.00	ug/L
Methylene Chloride	MW-14	10/28/2013		7.93	1.00	ug/L
Methylene Chloride	MW-14	4/24/2014		7.85	1.00	ug/L
Methylene Chloride	MW-14	10/06/2014		6.97	1.00	ug/L
Methylene Chloride	MW-14	10/05/2015		7.07	1.00	ug/L
Methylene Chloride	MW-14	10/05/2016		10.20	1.00	ug/L
Trichloroethene	MW-14	7/12/1996		3.10	1.00	ug/L
Trichloroethene	MW-14	1/21/1997		1.20	1.00	ug/L
Trichloroethene	MW-14	4/17/1997		1.50	1.00	ug/L
Trichloroethene	MW-14	10/04/1997		1.30	1.00	ug/L
Trichloroethene	MW-14	4/22/1998		1.10	1.00	ug/L

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

Table 1

Historical Volatile Organic Compound Detections

Constituent	Well	Date	Identifier	Result	Limit	Units
Trichloroethene	MW-14	10/19/1998		1.60	1.00	ug/L
Trichloroethene	MW-14	4/30/1999		2.10	1.00	ug/L
Trichloroethene	MW-14	9/01/1999		1.40	1.00	ug/L
Trichloroethene	MW-14	4/12/2000		1.70	1.00	ug/L
Trichloroethene	MW-14	4/25/2001		1.10	1.00	ug/L
Trichloroethene	MW-14	10/23/2001		1.10	1.00	ug/L
Trichloroethene	MW-14	4/28/2002		1.10	1.00	ug/L
Trichloroethene	MW-14	4/30/2004		4.25	1.00	ug/L
Trichloroethene	MW-14	10/05/2009		1.10	1.00	ug/L
Trichloroethene	MW-14	10/01/2010		1.09	1.00	ug/L
Trichloroethene	MW-14	4/07/2011		1.43	1.00	ug/L
Trichloroethene	MW-14	10/27/2011		1.40	1.00	ug/L
Trichloroethene	MW-14	4/23/2012		3.52	1.00	ug/L
Trichloroethene	MW-14	10/23/2012		2.10	1.00	ug/L
Trichloroethene	MW-14	10/28/2013		1.75	1.00	ug/L
Trichloroethene	MW-14	4/24/2014		1.14	1.00	ug/L
Trichloroethene	MW-14	4/11/2018		1.13	1.00	ug/L
Tetrachloroethene	MW-16	8/16/2021		1	1	ug/L
1,1,1-Trichloroethane	MW-17	4/30/2004		1.44	1.00	ug/L
1,2-Dichloroethane	MW-7	7/12/1996		10.6	1.0	ug/L
1,2-Dichloroethane	MW-7	10/10/1996		16.6	1.0	ug/L
1,2-Dichloropropane	MW-7	10/27/2011		7.44	1.00	ug/L
1,2-Dichloropropane	MW-7	4/16/2013		10.10	1.00	ug/L
1,2-Dichloropropane	MW-7	10/28/2013		10.60	1.00	ug/L
1,2-Dichloropropane	MW-7	4/24/2014		10.80	1.00	ug/L
1,2-Dichloropropane	MW-7	10/06/2014		8.45	1.00	ug/L
1,2-Dichloropropane	MW-7	4/21/2015		9.46	1.00	ug/L
1,2-Dichloropropane	MW-7	10/05/2015		11.20	1.00	ug/L
1,2-Dichloropropane	MW-7	4/26/2016		8.86	1.00	ug/L
1,2-Dichloropropane	MW-7	10/05/2016		3.19	1.00	ug/L
1,2-Dichloropropane	MW-7	4/04/2017		6.16	1.00	ug/L
1,2-Dichloropropane	MW-7	10/10/2017		9.31	1.00	ug/L
1,2-Dichloropropane	MW-7	4/11/2018		9.81	1.00	ug/L
1,2-Dichloropropane	MW-7	10/30/2018		8.62	1.00	ug/L
1,2-Dichloropropane	MW-7	4/01/2019		5.10	1.00	ug/L
1,2-Dichloropropane	MW-7	10/08/2019		7.25	1.00	ug/L
1,2-Dichloropropane	MW-7	4/20/2020		10.00	1.00	ug/L
1,2-Dichloropropane	MW-7	10/20/2020		9.41	1.00	ug/L
1,2-Dichloropropane	MW-7	4/26/2021		7.34	1.00	ug/L
1,2-Dichloropropane	MW-7	8/16/2021		13.50	1.00	ug/L
1,2-Dichloropropane	MW-7	6/01/2022		10.60	1.00	ug/L
1,2-Dichloropropane	MW-7	10/03/2022		11.80	1.00	ug/L
1,2-Dichloropropane	MW-7	5/03/2023		12.50	1.00	ug/L
Benzene	MW-7	10/04/1997		.750	.500	ug/L
Benzene	MW-7	4/22/1998		.740	.500	ug/L
Benzene	MW-7	10/19/1998		.810	.500	ug/L
Benzene	MW-7	4/30/1999		.800	.500	ug/L
Benzene	MW-7	4/12/2000		.800	.500	ug/L
Benzene	MW-7	4/25/2001		.600	.500	ug/L
Benzene	MW-7	10/23/2001		1.000	1.000	ug/L
Benzene	MW-7	4/28/2002		.500	.500	ug/L
Benzene	MW-7	10/07/2003		.560	.500	ug/L
Benzene	MW-7	4/30/2004		.600	.500	ug/L
Benzene	MW-7	10/12/2004		.660	.500	ug/L
Benzene	MW-7	10/05/2006		.540	.500	ug/L
Benzene	MW-7	4/23/2007		.830	.500	ug/L
Benzene	MW-7	10/09/2007		1.110	1.000	ug/L
Benzene	MW-7	4/07/2008		.724	.500	ug/L
Benzene	MW-7	10/14/2008		1.010	1.000	ug/L
Benzene	MW-7	4/07/2009		.680	.500	ug/L
Benzene	MW-7	10/05/2009		1.420	1.000	ug/L
Benzene	MW-7	4/01/2010		2.040	.500	ug/L
Benzene	MW-7	10/01/2010		2.050	.500	ug/L
Benzene	MW-7	4/07/2011		2.160	.500	ug/L
Benzene	MW-7	10/27/2011		1.760	1.000	ug/L
Benzene	MW-7	4/23/2012		2.660	.500	ug/L
Benzene	MW-7	10/23/2012		1.660	1.000	ug/L
Benzene	MW-7	4/16/2013		2.170	.500	ug/L
Benzene	MW-7	10/28/2013		1.230	1.000	ug/L
Benzene	MW-7	4/24/2014		.549	.500	ug/L
Benzene	MW-7	10/06/2014		.913	.500	ug/L
Benzene	MW-7	4/21/2015		.694	.500	ug/L
Benzene	MW-7	10/05/2015		.721	.500	ug/L
Benzene	MW-7	4/26/2016		.674	.500	ug/L
Benzene	MW-7	4/04/2017		.662	.500	ug/L
Benzene	MW-7	10/10/2017		1.220	1.000	ug/L

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

Table 1

Historical Volatile Organic Compound Detections

Constituent	Well	Date	Identifier	Result	Limit	Units
Benzene	MW-7	4/11/2018		.958	.500	ug/L
Benzene	MW-7	10/30/2018		.896	.500	ug/L
Benzene	MW-7	4/01/2019		.580	.500	ug/L
Benzene	MW-7	10/08/2019		.655	.500	ug/L
Benzene	MW-7	4/20/2020		.813	.500	ug/L
Benzene	MW-7	10/20/2020		.949	.500	ug/L
Benzene	MW-7	8/16/2021		.783	.500	ug/L
Benzene	MW-7	5/03/2023		.716	.500	ug/L
cis-1,2-Dichloroethene	MW-7	10/27/2011		88.0	1.0	ug/L
cis-1,2-Dichloroethene	MW-7	4/16/2013		159.0	1.0	ug/L
cis-1,2-Dichloroethene	MW-7	10/28/2013		145.0	1.0	ug/L
cis-1,2-Dichloroethene	MW-7	4/24/2014		132.0	1.0	ug/L
cis-1,2-Dichloroethene	MW-7	10/06/2014		138.0	1.0	ug/L
cis-1,2-Dichloroethene	MW-7	4/21/2015		159.0	1.0	ug/L
cis-1,2-Dichloroethene	MW-7	10/05/2015		160.0	1.0	ug/L
cis-1,2-Dichloroethene	MW-7	4/26/2016		128.0	1.0	ug/L
cis-1,2-Dichloroethene	MW-7	10/05/2016		46.3	1.0	ug/L
cis-1,2-Dichloroethene	MW-7	4/04/2017		112.0	1.0	ug/L
cis-1,2-Dichloroethene	MW-7	10/10/2017		158.0	1.0	ug/L
cis-1,2-Dichloroethene	MW-7	4/11/2018		152.0	1.0	ug/L
cis-1,2-Dichloroethene	MW-7	10/30/2018		113.0	1.0	ug/L
cis-1,2-Dichloroethene	MW-7	4/01/2019		66.3	1.0	ug/L
cis-1,2-Dichloroethene	MW-7	10/08/2019		117.0	1.0	ug/L
cis-1,2-Dichloroethene	MW-7	4/20/2020		193.0	1.0	ug/L
cis-1,2-Dichloroethene	MW-7	10/20/2020		198.0	1.0	ug/L
cis-1,2-Dichloroethene	MW-7	4/26/2021		112.0	1.0	ug/L
cis-1,2-Dichloroethene	MW-7	8/16/2021		240.0	1.0	ug/L
cis-1,2-Dichloroethene	MW-7	6/01/2022		147.0	1.0	ug/L
cis-1,2-Dichloroethene	MW-7	10/03/2022		168.0	1.0	ug/L
cis-1,2-Dichloroethene	MW-7	5/03/2023		174.0	1.0	ug/L
Tetrachloroethene	MW-7	10/27/2011		10.30	1.00	ug/L
Tetrachloroethene	MW-7	4/16/2013		10.60	1.00	ug/L
Tetrachloroethene	MW-7	10/28/2013		4.45	1.00	ug/L
Tetrachloroethene	MW-7	10/06/2014		9.50	1.00	ug/L
Tetrachloroethene	MW-7	4/21/2015		1.62	1.00	ug/L
Tetrachloroethene	MW-7	10/05/2015		7.31	1.00	ug/L
Tetrachloroethene	MW-7	4/26/2016		4.25	1.00	ug/L
Tetrachloroethene	MW-7	10/05/2016		3.22	1.00	ug/L
Tetrachloroethene	MW-7	4/04/2017		3.87	1.00	ug/L
Tetrachloroethene	MW-7	10/10/2017		3.75	1.00	ug/L
Tetrachloroethene	MW-7	4/11/2018		3.15	1.00	ug/L
Tetrachloroethene	MW-7	10/30/2018		2.12	1.00	ug/L
Tetrachloroethene	MW-7	4/01/2019		2.85	1.00	ug/L
Tetrachloroethene	MW-7	10/08/2019		1.23	1.00	ug/L
Tetrachloroethene	MW-7	4/20/2020		1.90	1.00	ug/L
Tetrachloroethene	MW-7	4/26/2021		1.66	1.00	ug/L
Tetrachloroethene	MW-7	8/16/2021		5.30	1.00	ug/L
Tetrachloroethene	MW-7	6/01/2022		2.89	1.00	ug/L
Tetrachloroethene	MW-7	10/03/2022		2.69	1.00	ug/L
Tetrachloroethene	MW-7	5/03/2023		2.67	1.00	ug/L
Trichloroethene	MW-7	7/12/1996		4.70	1.00	ug/L
Trichloroethene	MW-7	10/10/1996		5.10	1.00	ug/L
Trichloroethene	MW-7	1/21/1997		6.60	1.00	ug/L
Trichloroethene	MW-7	4/17/1997		12.20	1.00	ug/L
Trichloroethene	MW-7	10/04/1997		9.80	1.00	ug/L
Trichloroethene	MW-7	4/22/1998		10.90	1.00	ug/L
Trichloroethene	MW-7	10/19/1998		8.20	1.00	ug/L
Trichloroethene	MW-7	4/30/1999		12.50	1.00	ug/L
Trichloroethene	MW-7	9/01/1999		8.20	1.00	ug/L
Trichloroethene	MW-7	4/12/2000		8.40	1.00	ug/L
Trichloroethene	MW-7	10/17/2000		6.40	1.00	ug/L
Trichloroethene	MW-7	4/25/2001		8.40	1.00	ug/L
Trichloroethene	MW-7	10/23/2001		10.70	1.00	ug/L
Trichloroethene	MW-7	4/28/2002		12.00	1.00	ug/L
Trichloroethene	MW-7	10/06/2002		13.40	1.00	ug/L
Trichloroethene	MW-7	4/03/2003		10.40	1.00	ug/L
Trichloroethene	MW-7	10/07/2003		10.70	1.00	ug/L
Trichloroethene	MW-7	4/30/2004		11.00	1.00	ug/L
Trichloroethene	MW-7	10/12/2004		7.40	1.00	ug/L
Trichloroethene	MW-7	4/26/2005		3.60	1.00	ug/L
Trichloroethene	MW-7	10/11/2005		2.94	1.00	ug/L
Trichloroethene	MW-7	4/26/2006		5.97	1.00	ug/L
Trichloroethene	MW-7	10/05/2006		7.26	1.00	ug/L
Trichloroethene	MW-7	4/23/2007		11.00	1.00	ug/L
Trichloroethene	MW-7	10/09/2007		13.40	1.00	ug/L
Trichloroethene	MW-7	4/07/2008		11.20	1.00	ug/L

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

Table 1

Historical Volatile Organic Compound Detections

Constituent	Well	Date	Identifier	Result	Limit	Units
Trichloroethene	MW-7	10/14/2008		12.80	1.00	ug/L
Trichloroethene	MW-7	4/07/2009		11.40	1.00	ug/L
Trichloroethene	MW-7	10/05/2009		37.50	1.00	ug/L
Trichloroethene	MW-7	4/01/2010		27.20	1.00	ug/L
Trichloroethene	MW-7	10/01/2010		16.90	1.00	ug/L
Trichloroethene	MW-7	4/07/2011		28.90	1.00	ug/L
Trichloroethene	MW-7	10/27/2011		15.40	1.00	ug/L
Trichloroethene	MW-7	4/23/2012		27.40	1.00	ug/L
Trichloroethene	MW-7	10/23/2012		24.00	1.00	ug/L
Trichloroethene	MW-7	4/16/2013		12.70	1.00	ug/L
Trichloroethene	MW-7	10/28/2013		9.17	1.00	ug/L
Trichloroethene	MW-7	4/24/2014		9.48	1.00	ug/L
Trichloroethene	MW-7	10/06/2014		6.83	1.00	ug/L
Trichloroethene	MW-7	4/21/2015		16.40	1.00	ug/L
Trichloroethene	MW-7	10/05/2015		7.02	1.00	ug/L
Trichloroethene	MW-7	4/26/2016		11.70	1.00	ug/L
Trichloroethene	MW-7	10/05/2016		3.16	1.00	ug/L
Trichloroethene	MW-7	4/04/2017		6.44	1.00	ug/L
Trichloroethene	MW-7	10/10/2017		9.98	1.00	ug/L
Trichloroethene	MW-7	4/11/2018		11.10	1.00	ug/L
Trichloroethene	MW-7	10/30/2018		10.30	1.00	ug/L
Trichloroethene	MW-7	4/01/2019		5.36	1.00	ug/L
Trichloroethene	MW-7	10/08/2019		6.71	1.00	ug/L
Trichloroethene	MW-7	4/20/2020		20.40	1.00	ug/L
Trichloroethene	MW-7	10/20/2020		17.30	1.00	ug/L
Trichloroethene	MW-7	4/26/2021		10.00	1.00	ug/L
Trichloroethene	MW-7	8/16/2021		12.30	1.00	ug/L
Trichloroethene	MW-7	6/01/2022		7.03	1.00	ug/L
Trichloroethene	MW-7	10/03/2022		6.27	1.00	ug/L
Trichloroethene	MW-7	5/03/2023		7.50	1.00	ug/L
Vinyl Chloride	MW-7	10/28/2013		1.45	1.00	ug/L
Vinyl Chloride	MW-7	10/06/2014		1.56	1.00	ug/L
Vinyl Chloride	MW-7	4/21/2015		1.26	1.00	ug/L
Vinyl Chloride	MW-7	10/05/2015		1.24	1.00	ug/L
Vinyl Chloride	MW-7	4/26/2016		1.58	1.00	ug/L
Vinyl Chloride	MW-7	4/04/2017		1.15	1.00	ug/L
Vinyl Chloride	MW-7	10/10/2017		1.81	1.00	ug/L
Vinyl Chloride	MW-7	4/11/2018		1.87	1.00	ug/L
Vinyl Chloride	MW-7	10/30/2018		1.98	1.00	ug/L
Vinyl Chloride	MW-7	10/08/2019		1.45	1.00	ug/L
Vinyl Chloride	MW-7	4/20/2020		3.15	1.00	ug/L
Vinyl Chloride	MW-7	10/20/2020		3.48	1.00	ug/L
Vinyl Chloride	MW-7	4/26/2021		1.02	1.00	ug/L
Vinyl Chloride	MW-7	8/16/2021		2.84	1.00	ug/L
Vinyl Chloride	MW-7	6/01/2022		1.47	1.00	ug/L
Vinyl Chloride	MW-7	10/03/2022		1.38	1.00	ug/L
Vinyl Chloride	MW-7	5/03/2023		3.11	1.00	ug/L
1,1-Dichloroethene	MW-8	10/10/1996		14.2	1.0	ug/L
1,2-Dichloroethane	MW-8	10/10/1996		3.00	1.00	ug/L
1,2-Dichloroethane	MW-8	1/21/1997		2.80	1.00	ug/L
1,2-Dichloroethane	MW-8	7/15/1997		2.80	1.00	ug/L
1,2-Dichloroethane	MW-8	10/04/1997		2.80	1.00	ug/L
1,2-Dichloroethane	MW-8	4/22/1998		3.30	1.00	ug/L
1,2-Dichloroethane	MW-8	10/19/1998		2.60	1.00	ug/L
1,2-Dichloroethane	MW-8	4/30/1999		3.40	1.00	ug/L
1,2-Dichloroethane	MW-8	9/01/1999		2.30	1.00	ug/L
1,2-Dichloroethane	MW-8	4/12/2000		3.00	1.00	ug/L
1,2-Dichloroethane	MW-8	10/17/2000		2.10	1.00	ug/L
1,2-Dichloroethane	MW-8	4/25/2001		2.70	1.00	ug/L
1,2-Dichloroethane	MW-8	10/23/2001		2.30	1.00	ug/L
1,2-Dichloroethane	MW-8	4/28/2002		1.90	1.00	ug/L
1,2-Dichloroethane	MW-8	10/06/2002		1.61	1.00	ug/L
1,2-Dichloroethane	MW-8	10/07/2003		1.55	1.00	ug/L
1,2-Dichloroethane	MW-8	4/30/2004		1.39	1.00	ug/L
1,2-Dichloroethane	MW-8	10/12/2004		1.21	1.00	ug/L
1,2-Dichloroethane	MW-8	4/26/2005		1.30	1.00	ug/L
1,2-Dichloroethane	MW-8	10/11/2005		1.97	1.00	ug/L
1,2-Dichloroethane	MW-8	4/26/2006		1.93	1.00	ug/L
1,2-Dichloroethane	MW-8	10/05/2006		1.83	1.00	ug/L
1,2-Dichloroethane	MW-8	4/23/2007		1.67	1.00	ug/L
1,2-Dichloroethane	MW-8	10/09/2007		1.86	1.00	ug/L
1,2-Dichloroethane	MW-8	4/07/2008		1.48	1.00	ug/L
1,2-Dichloroethane	MW-8	10/14/2008		1.35	1.00	ug/L
1,2-Dichloroethane	MW-8	4/07/2009		1.24	1.00	ug/L
1,2-Dichloroethane	MW-8	10/05/2009		1.34	1.00	ug/L
1,2-Dichloroethane	MW-8	4/01/2010		1.05	1.00	ug/L

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

Table 1

Historical Volatile Organic Compound Detections

Constituent	Well	Date	Identifier	Result	Limit	Units
1,2-Dichloropropane	MW-8	10/27/2011		1.46	1.00	ug/L
1,2-Dichloropropane	MW-8	4/16/2013		1.62	1.00	ug/L
1,2-Dichloropropane	MW-8	10/28/2013		1.44	1.00	ug/L
1,2-Dichloropropane	MW-8	4/24/2014		1.35	1.00	ug/L
1,2-Dichloropropane	MW-8	10/06/2014		1.17	1.00	ug/L
1,2-Dichloropropane	MW-8	4/21/2015		1.27	1.00	ug/L
1,2-Dichloropropane	MW-8	10/05/2015		1.30	1.00	ug/L
1,2-Dichloropropane	MW-8	4/04/2017		1.32	1.00	ug/L
1,2-Dichloropropane	MW-8	10/10/2017		1.65	1.00	ug/L
1,2-Dichloropropane	MW-8	4/11/2018		1.43	1.00	ug/L
1,2-Dichloropropane	MW-8	10/30/2018		1.27	1.00	ug/L
1,2-Dichloropropane	MW-8	4/01/2019		1.21	1.00	ug/L
1,2-Dichloropropane	MW-8	10/08/2019		1.57	1.00	ug/L
1,2-Dichloropropane	MW-8	5/28/2020		1.43	1.00	ug/L
1,2-Dichloropropane	MW-8	10/20/2020		1.29	1.00	ug/L
1,2-Dichloropropane	MW-8	4/26/2021		1.26	1.00	ug/L
1,2-Dichloropropane	MW-8	8/16/2021		1.52	1.00	ug/L
1,2-Dichloropropane	MW-8	6/01/2022		1.21	1.00	ug/L
1,2-Dichloropropane	MW-8	10/03/2022		1.01	1.00	ug/L
1,2-Dichloropropane	MW-8	5/03/2023		1.16	1.00	ug/L
Benzene	MW-8	10/10/1996		2.800	.500	ug/L
Benzene	MW-8	1/21/1997		2.200	.500	ug/L
Benzene	MW-8	7/15/1997		1.200	1.000	ug/L
Benzene	MW-8	10/04/1997		1.530	1.000	ug/L
Benzene	MW-8	4/22/1998		1.100	1.000	ug/L
Benzene	MW-8	10/19/1998		1.300	1.000	ug/L
Benzene	MW-8	4/30/1999		1.300	1.000	ug/L
Benzene	MW-8	9/01/1999		1.000	1.000	ug/L
Benzene	MW-8	4/12/2000		.720	.500	ug/L
Benzene	MW-8	10/17/2000		.950	.500	ug/L
Benzene	MW-8	4/03/2003		.800	.500	ug/L
Benzene	MW-8	10/11/2005		.550	.500	ug/L
Benzene	MW-8	4/26/2006		1.080	1.000	ug/L
Benzene	MW-8	10/05/2006		.940	.500	ug/L
Benzene	MW-8	10/09/2007		1.240	1.000	ug/L
Benzene	MW-8	4/07/2008		1.610	1.000	ug/L
Benzene	MW-8	10/14/2008		1.460	1.000	ug/L
Benzene	MW-8	4/07/2009		.560	.500	ug/L
Benzene	MW-8	10/05/2009		.860	.500	ug/L
Benzene	MW-8	4/07/2011		1.090	1.000	ug/L
Benzene	MW-8	10/27/2011		1.040	1.000	ug/L
Benzene	MW-8	4/23/2012		.840	.500	ug/L
Benzene	MW-8	10/23/2012		.710	.500	ug/L
Benzene	MW-8	10/05/2016		.801	.500	ug/L
Benzene	MW-8	4/04/2017		.794	.500	ug/L
Benzene	MW-8	10/10/2017		.701	.500	ug/L
Benzene	MW-8	4/01/2019		.632	.500	ug/L
Benzene	MW-8	10/08/2019		.858	.500	ug/L
cis-1,2-Dichloroethene	MW-8	10/27/2011		104.00	1.00	ug/L
cis-1,2-Dichloroethene	MW-8	4/16/2013		85.70	1.00	ug/L
cis-1,2-Dichloroethene	MW-8	10/28/2013		53.80	1.00	ug/L
cis-1,2-Dichloroethene	MW-8	4/24/2014		69.30	1.00	ug/L
cis-1,2-Dichloroethene	MW-8	10/06/2014		54.30	1.00	ug/L
cis-1,2-Dichloroethene	MW-8	4/21/2015		72.00	1.00	ug/L
cis-1,2-Dichloroethene	MW-8	10/05/2015		84.50	1.00	ug/L
cis-1,2-Dichloroethene	MW-8	4/26/2016		60.40	1.00	ug/L
cis-1,2-Dichloroethene	MW-8	10/05/2016		84.70	1.00	ug/L
cis-1,2-Dichloroethene	MW-8	4/04/2017		91.90	1.00	ug/L
cis-1,2-Dichloroethene	MW-8	10/10/2017		100.00	1.00	ug/L
cis-1,2-Dichloroethene	MW-8	4/11/2018		80.80	1.00	ug/L
cis-1,2-Dichloroethene	MW-8	10/30/2018		82.60	1.00	ug/L
cis-1,2-Dichloroethene	MW-8	4/01/2019		75.70	1.00	ug/L
cis-1,2-Dichloroethene	MW-8	10/08/2019		85.80	1.00	ug/L
cis-1,2-Dichloroethene	MW-8	4/20/2020		1.21	1.00	ug/L
cis-1,2-Dichloroethene	MW-8	5/28/2020		57.10	1.00	ug/L
cis-1,2-Dichloroethene	MW-8	10/20/2020		76.40	1.00	ug/L
cis-1,2-Dichloroethene	MW-8	4/26/2021		61.20	1.00	ug/L
cis-1,2-Dichloroethene	MW-8	8/16/2021		85.90	1.00	ug/L
cis-1,2-Dichloroethene	MW-8	6/01/2022		59.40	1.00	ug/L
cis-1,2-Dichloroethene	MW-8	10/03/2022		50.20	1.00	ug/L
cis-1,2-Dichloroethene	MW-8	5/03/2023		53.80	1.00	ug/L
Trichloroethene	MW-8	10/10/1996		21.40	1.00	ug/L
Trichloroethene	MW-8	1/21/1997		20.80	1.00	ug/L
Trichloroethene	MW-8	4/17/1997		18.60	1.00	ug/L
Trichloroethene	MW-8	7/15/1997		17.10	1.00	ug/L
Trichloroethene	MW-8	10/04/1997		15.60	1.00	ug/L

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

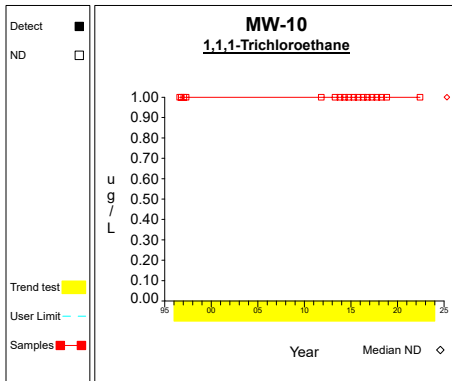
Table 1

Historical Volatile Organic Compound Detections

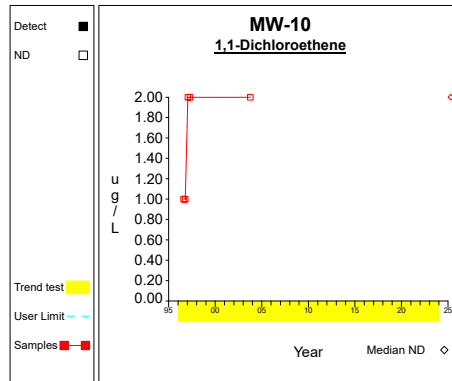
Constituent	Well	Date	Identifier	Result	Limit	Units
Trichloroethene	MW-8	4/22/1998		16.40	1.00	ug/L
Trichloroethene	MW-8	10/19/1998		16.10	1.00	ug/L
Trichloroethene	MW-8	4/30/1999		14.10	1.00	ug/L
Trichloroethene	MW-8	9/01/1999		11.80	1.00	ug/L
Trichloroethene	MW-8	4/12/2000		9.80	1.00	ug/L
Trichloroethene	MW-8	10/17/2000		9.80	1.00	ug/L
Trichloroethene	MW-8	4/25/2001		7.80	1.00	ug/L
Trichloroethene	MW-8	10/23/2001		7.30	1.00	ug/L
Trichloroethene	MW-8	4/28/2002		6.40	1.00	ug/L
Trichloroethene	MW-8	10/06/2002		7.00	1.00	ug/L
Trichloroethene	MW-8	4/03/2003		9.50	1.00	ug/L
Trichloroethene	MW-8	10/07/2003		5.02	1.00	ug/L
Trichloroethene	MW-8	4/30/2004		5.97	1.00	ug/L
Trichloroethene	MW-8	10/12/2004		4.06	1.00	ug/L
Trichloroethene	MW-8	4/26/2005		3.61	1.00	ug/L
Trichloroethene	MW-8	10/11/2005		3.29	1.00	ug/L
Trichloroethene	MW-8	4/26/2006		1.46	1.00	ug/L
Trichloroethene	MW-8	10/05/2006		2.61	1.00	ug/L
Trichloroethene	MW-8	4/23/2007		1.73	1.00	ug/L
Trichloroethene	MW-8	10/09/2007		2.47	1.00	ug/L
Trichloroethene	MW-8	4/07/2008		1.91	1.00	ug/L
Trichloroethene	MW-8	10/14/2008		2.13	1.00	ug/L
Trichloroethene	MW-8	4/07/2009		1.91	1.00	ug/L
Trichloroethene	MW-8	10/05/2009		2.16	1.00	ug/L
Trichloroethene	MW-8	4/01/2010		1.08	1.00	ug/L
Trichloroethene	MW-8	10/01/2010		1.12	1.00	ug/L
Trichloroethene	MW-8	4/07/2011		1.17	1.00	ug/L
Trichloroethene	MW-8	10/27/2011		1.07	1.00	ug/L
Trichloroethene	MW-8	10/23/2012		1.59	1.00	ug/L
Trichloroethene	MW-8	4/16/2013		1.87	1.00	ug/L
Trichloroethene	MW-8	5/03/2023		1.13	1.00	ug/L
Vinyl Chloride	MW-8	10/27/2011		3.73	1.00	ug/L
Vinyl Chloride	MW-8	4/16/2013		1.90	1.00	ug/L
Vinyl Chloride	MW-8	4/26/2016		1.06	1.00	ug/L
Vinyl Chloride	MW-8	10/05/2016		2.86	1.00	ug/L
Vinyl Chloride	MW-8	4/04/2017		3.73	1.00	ug/L
Vinyl Chloride	MW-8	10/10/2017		3.83	1.00	ug/L
Vinyl Chloride	MW-8	4/11/2018		2.74	1.00	ug/L
Vinyl Chloride	MW-8	10/30/2018		2.18	1.00	ug/L
Vinyl Chloride	MW-8	4/01/2019		5.33	1.00	ug/L
Vinyl Chloride	MW-8	10/08/2019		7.13	1.00	ug/L
Vinyl Chloride	MW-8	5/28/2020		1.73	1.00	ug/L
Vinyl Chloride	MW-8	10/20/2020		3.25	1.00	ug/L
Vinyl Chloride	MW-8	4/26/2021		2.16	1.00	ug/L
Vinyl Chloride	MW-8	8/16/2021		2.40	1.00	ug/L
Vinyl Chloride	MW-8	6/01/2022		2.72	1.00	ug/L
Vinyl Chloride	MW-8	10/03/2022		1.62	1.00	ug/L
Vinyl Chloride	MW-8	5/03/2023		2.16	1.00	ug/L
1,2-Dichloroethane	MW-9	10/10/1996		.55	.40	ug/L
1,2-Dichloroethane	MW-9	10/04/1997		.54	.40	ug/L
1,2-Dichloroethane	MW-9	10/19/1998		.40	.40	ug/L
1,2-Dichloroethane	MW-9	4/30/1999		.47	.40	ug/L
cis-1,2-Dichloroethene	MW-9	10/27/2011		2.70	1.00	ug/L
cis-1,2-Dichloroethene	MW-9	4/26/2016		1.69	1.00	ug/L
cis-1,2-Dichloroethene	MW-9	4/04/2017		1.09	1.00	ug/L
cis-1,2-Dichloroethene	MW-9	10/30/2018		1.99	1.00	ug/L

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

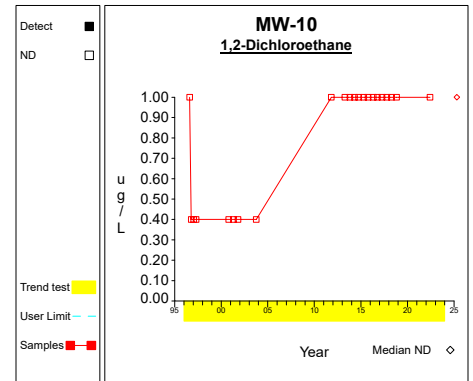
Time Series



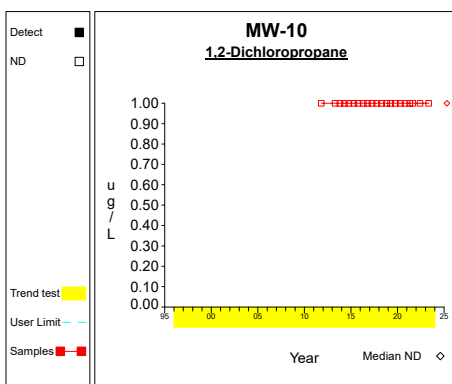
Graph 1



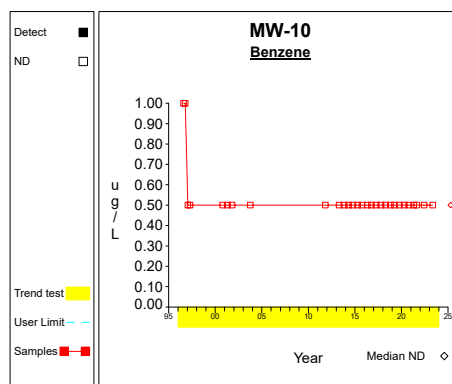
Graph 2



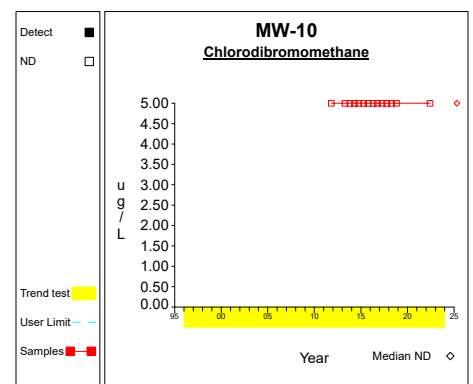
Graph 3



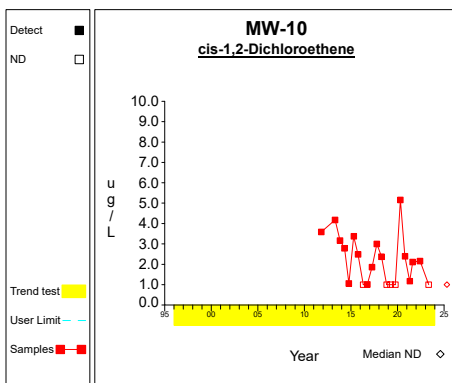
Graph 4



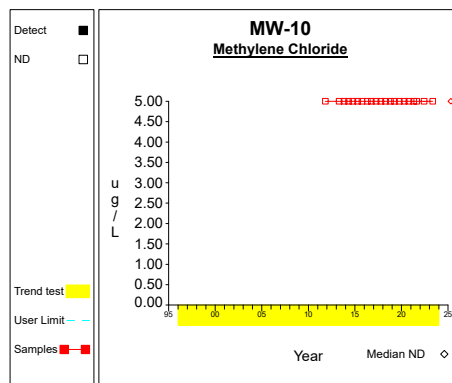
Graph 5



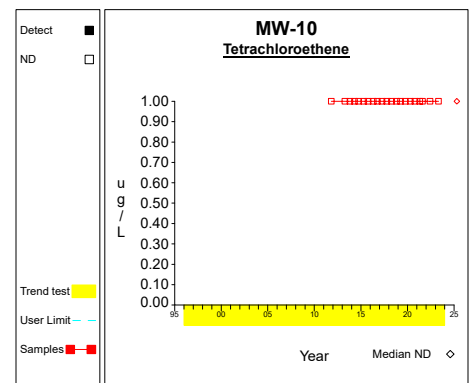
Graph 6



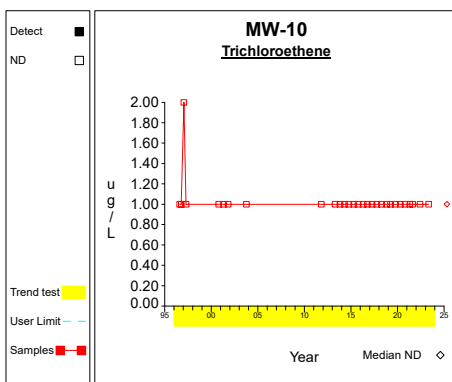
Graph 7



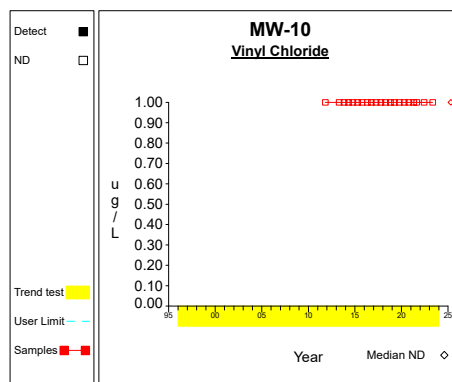
Graph 8



Graph 9

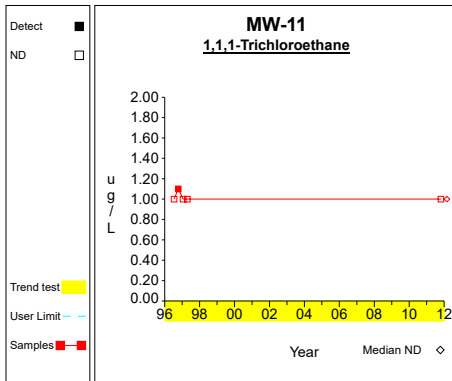


Graph 10

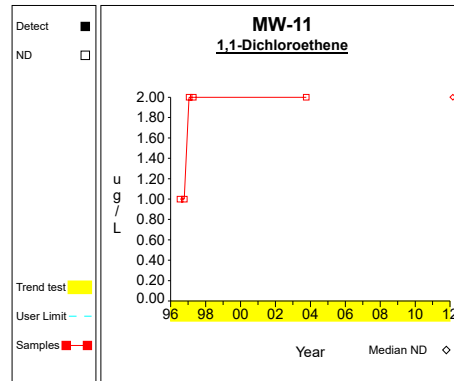


Graph 11

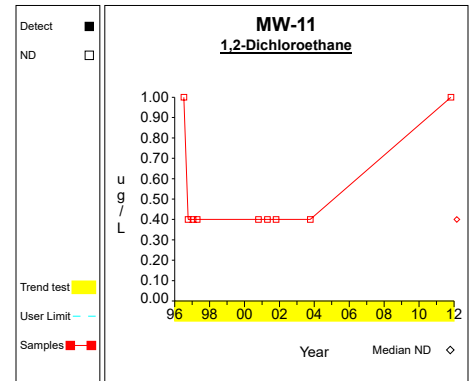
Time Series



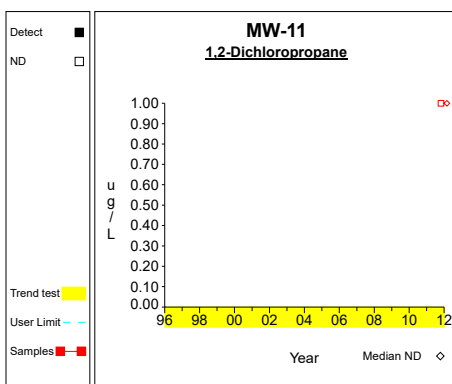
Graph 12



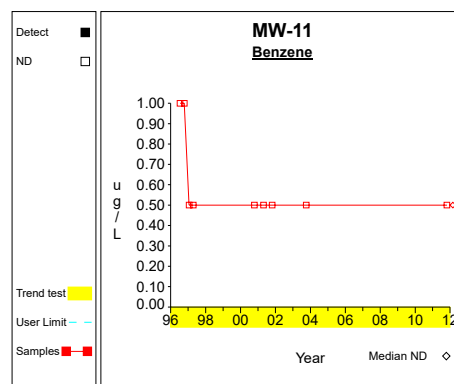
Graph 13



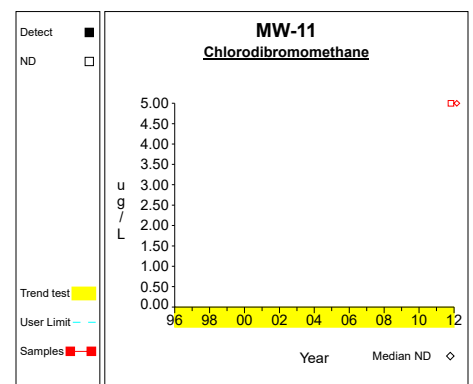
Graph 14



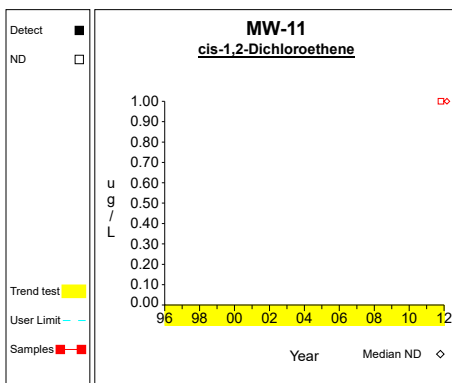
Graph 15



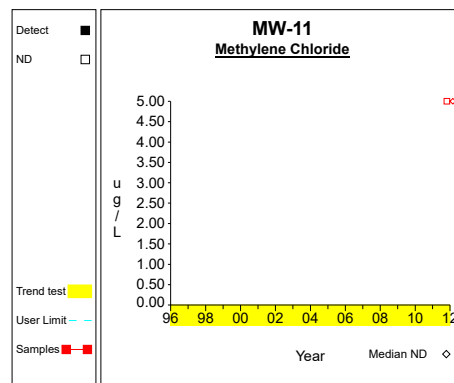
Graph 16



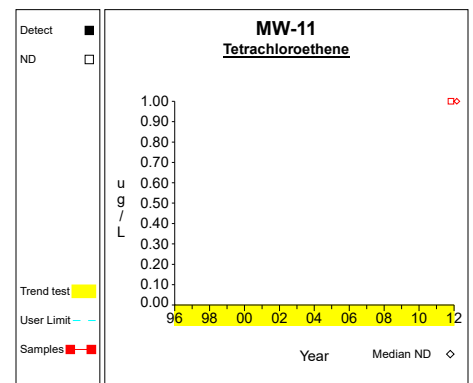
Graph 17



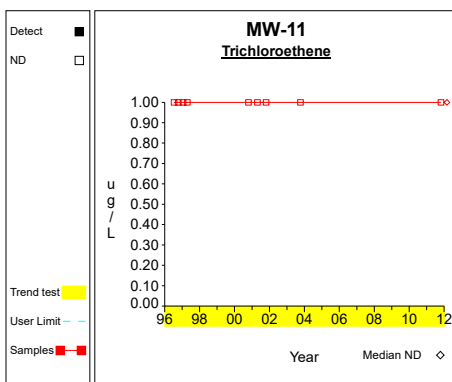
Graph 18



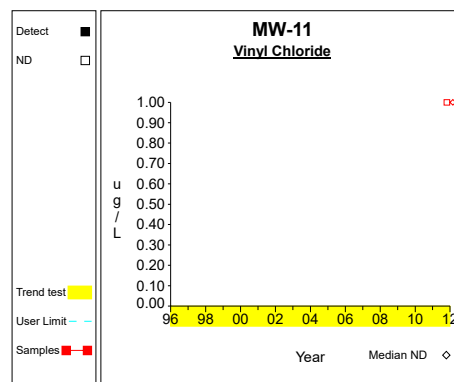
Graph 19



Graph 20

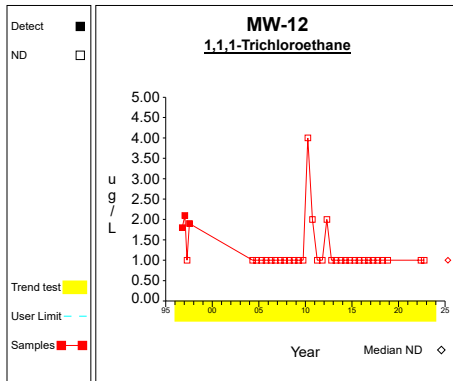


Graph 21

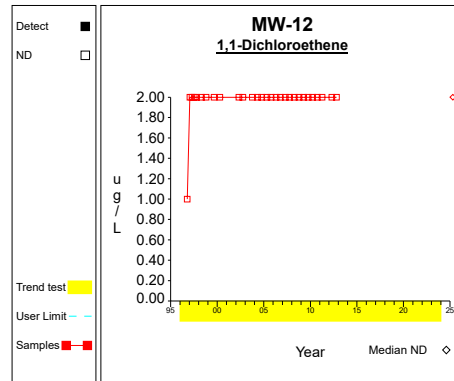


Graph 22

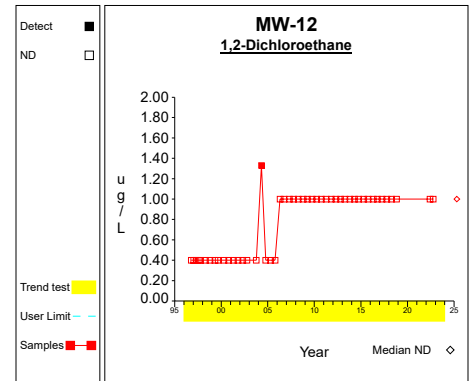
Time Series



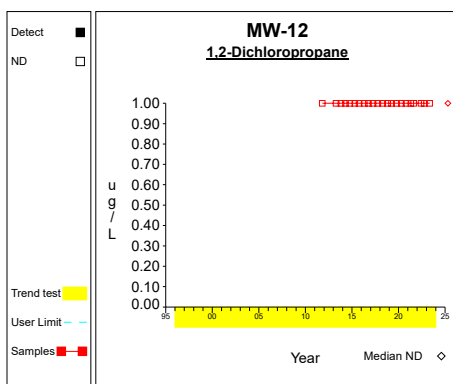
Graph 23



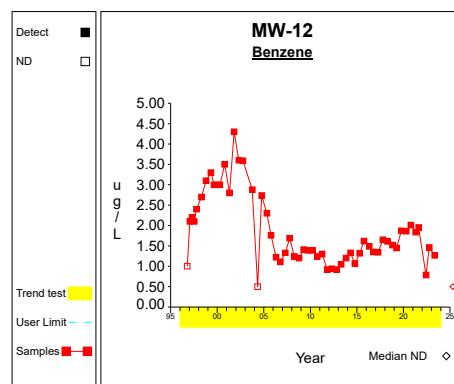
Graph 24



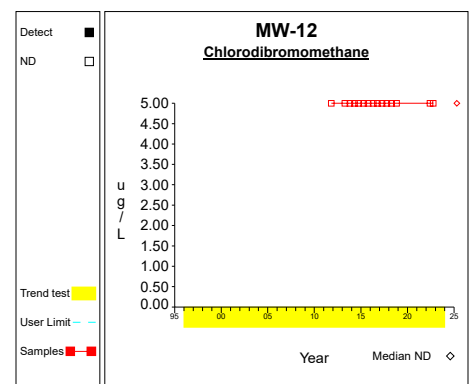
Graph 25



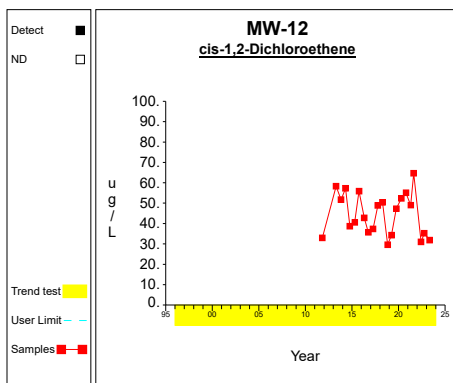
Graph 26



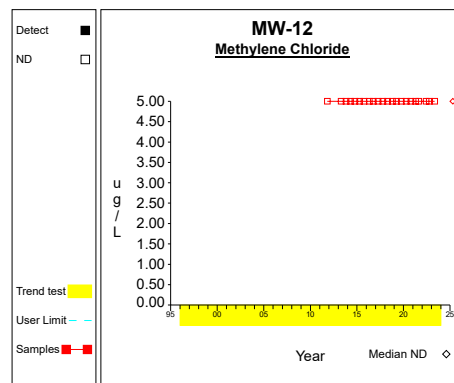
Graph 27



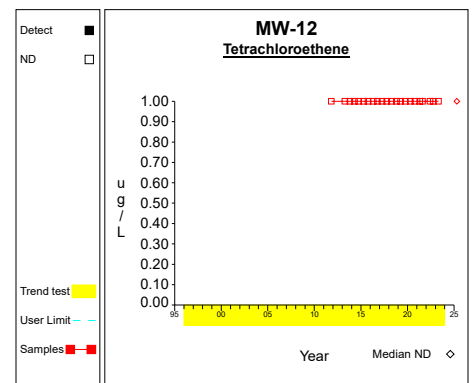
Graph 28



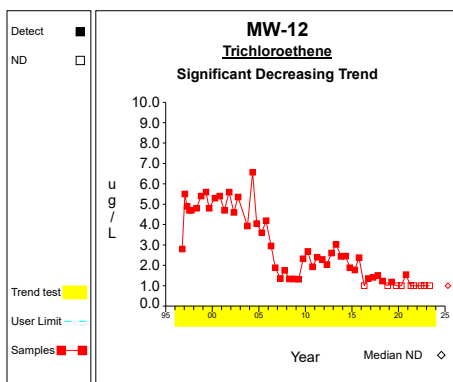
Graph 29



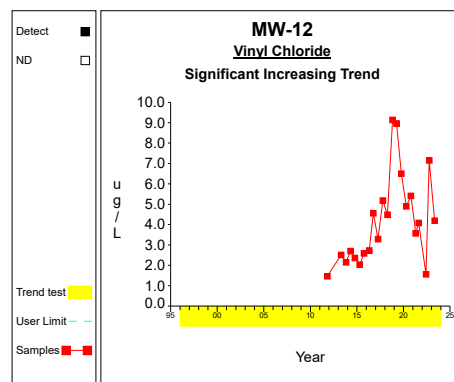
Graph 30



Graph 31

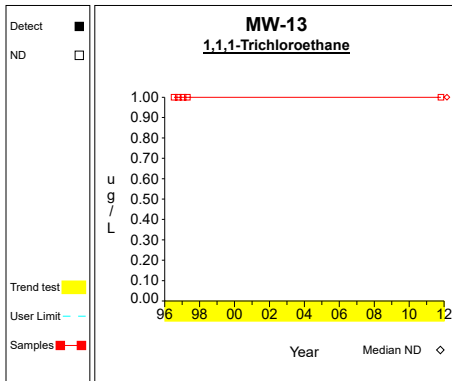


Graph 32

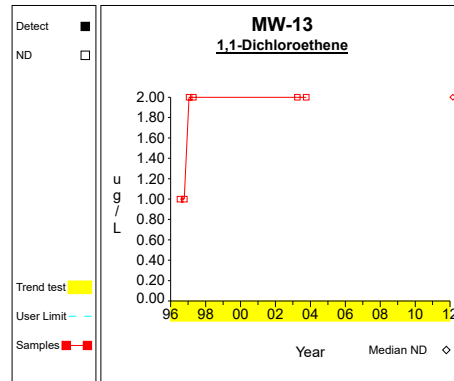


Graph 33

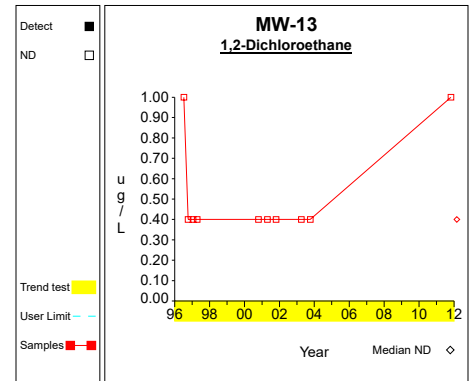
Time Series



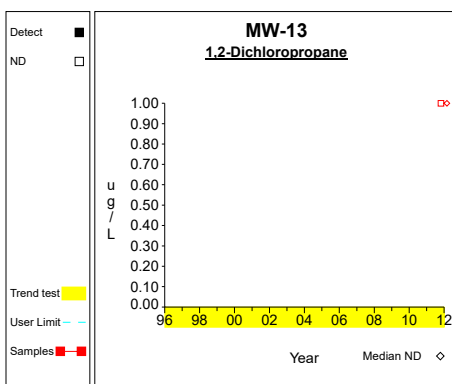
Graph 34



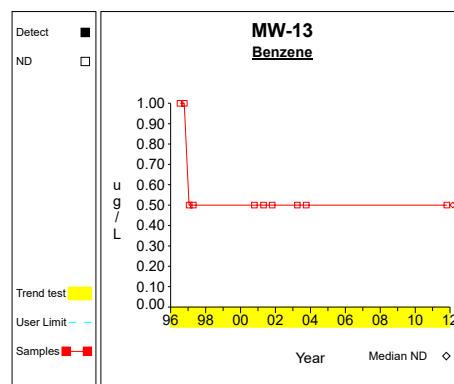
Graph 35



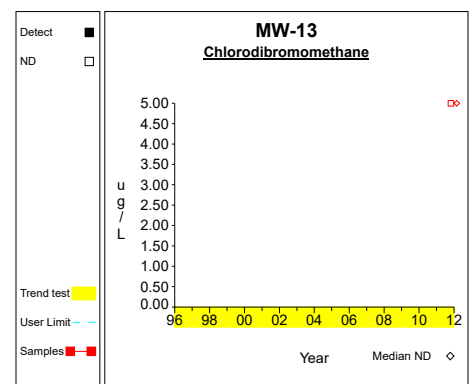
Graph 36



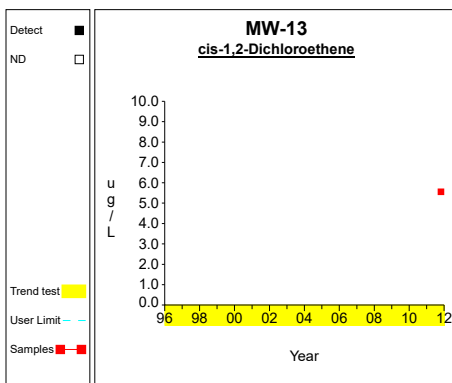
Graph 37



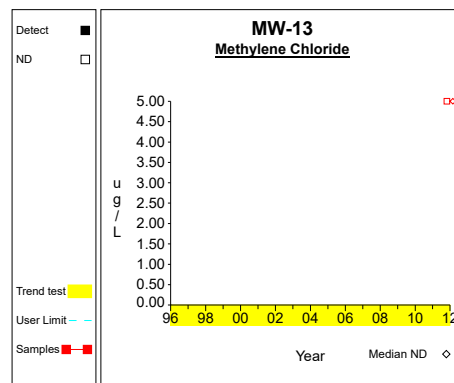
Graph 38



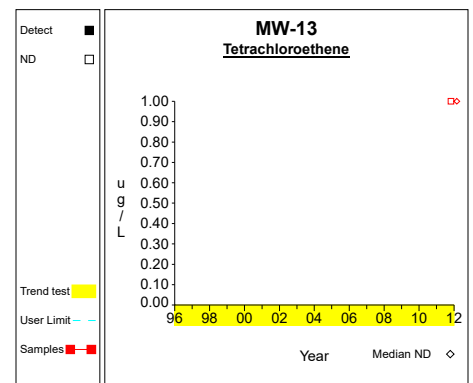
Graph 39



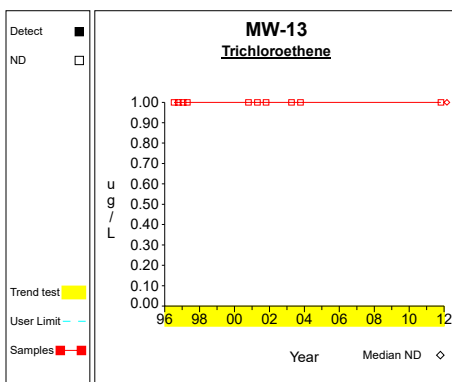
Graph 40



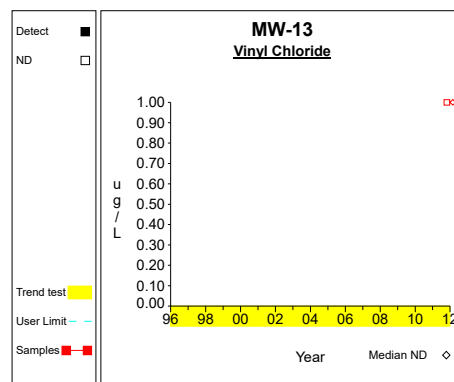
Graph 41



Graph 42

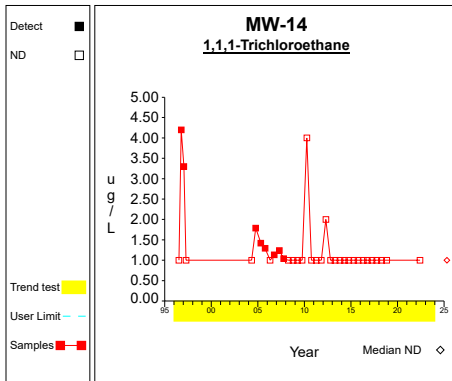


Graph 43

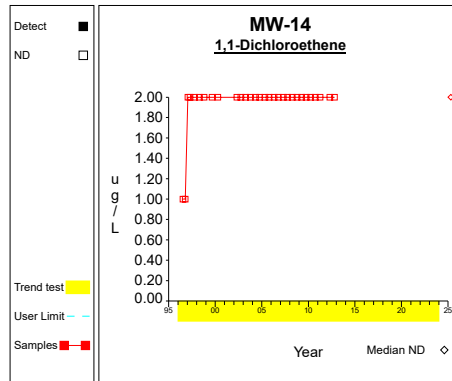


Graph 44

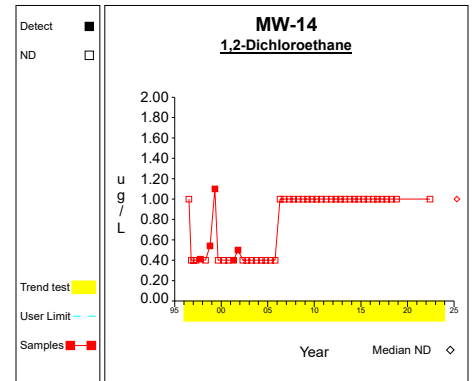
Time Series



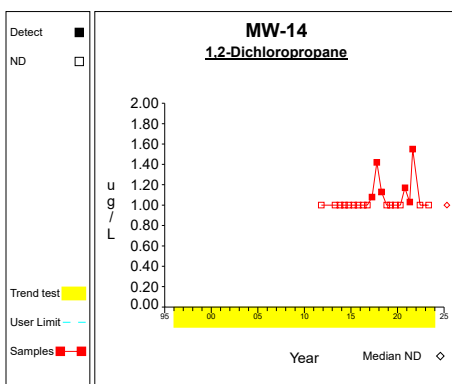
Graph 45



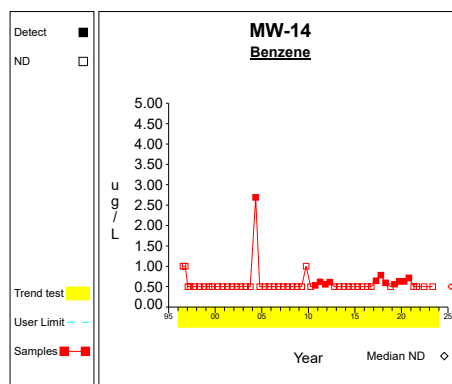
Graph 46



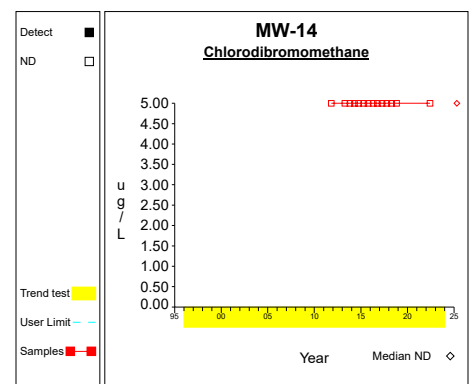
Graph 47



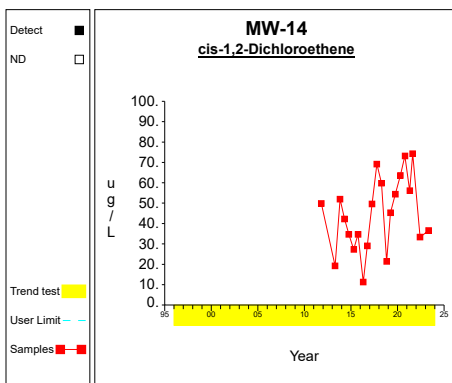
Graph 48



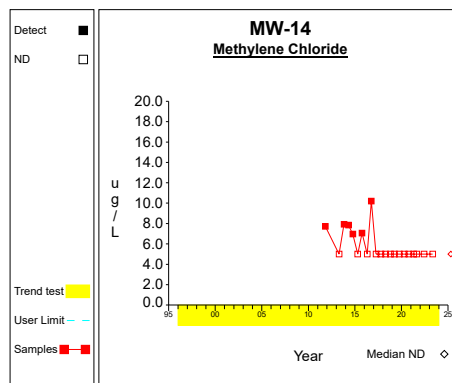
Graph 49



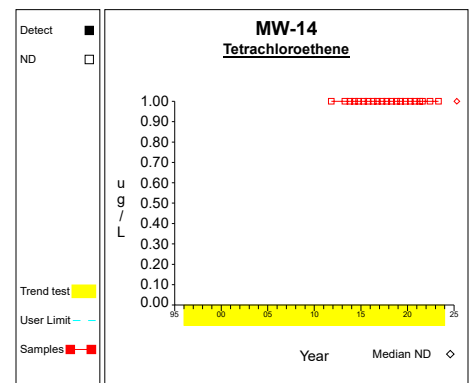
Graph 50



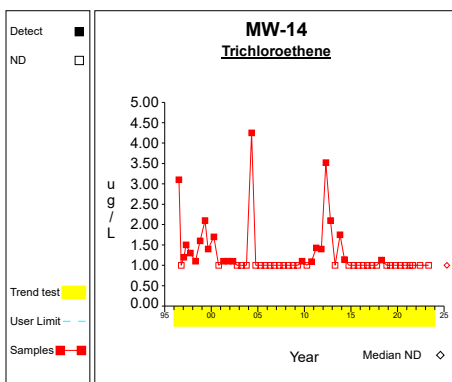
Graph 51



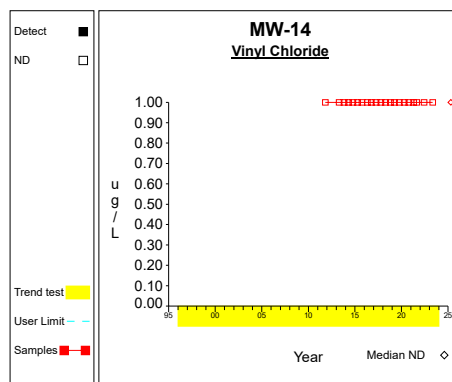
Graph 52



Graph 53

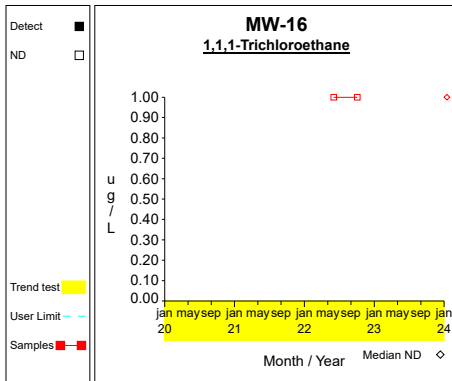


Graph 54

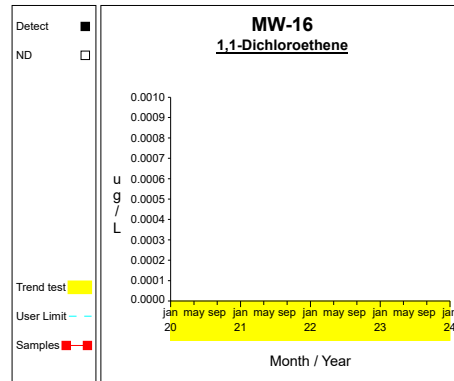


Graph 55

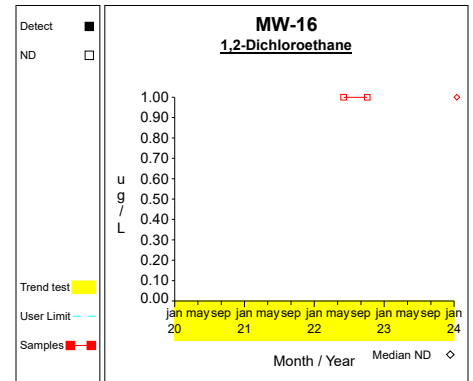
Time Series



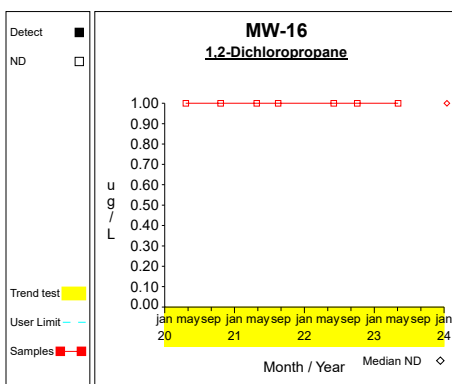
Graph 56



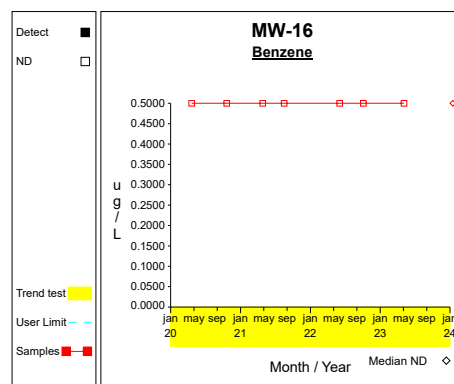
Graph 57



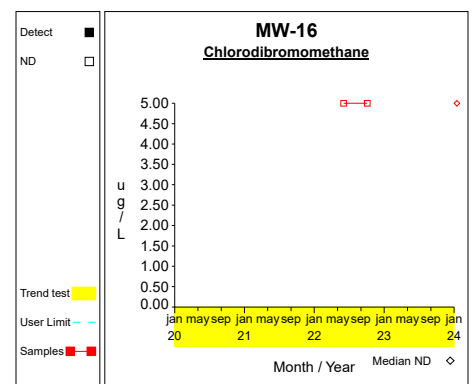
Graph 58



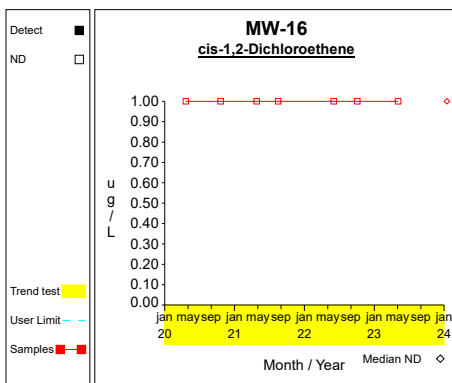
Graph 59



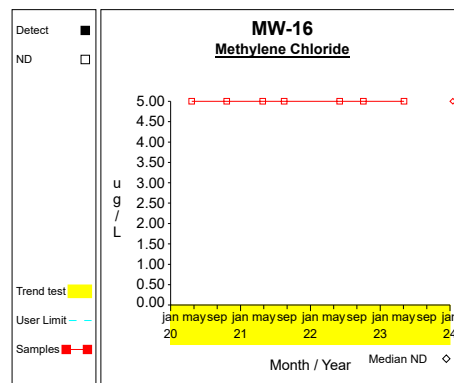
Graph 60



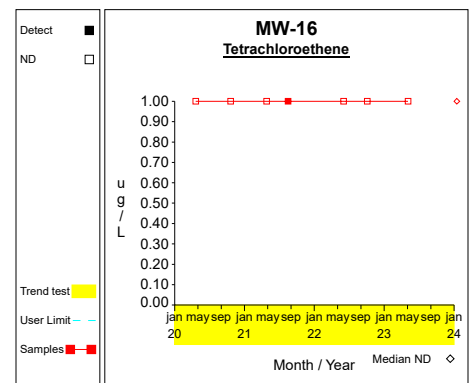
Graph 61



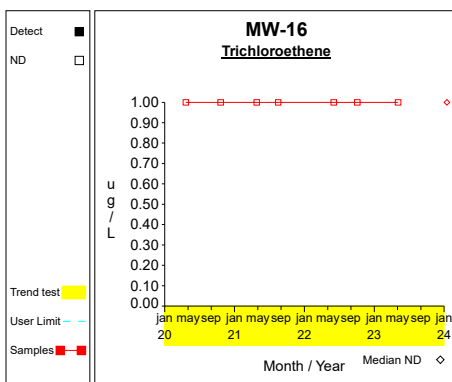
Graph 62



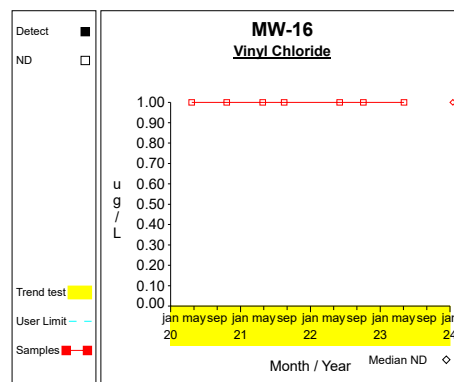
Graph 63



Graph 64

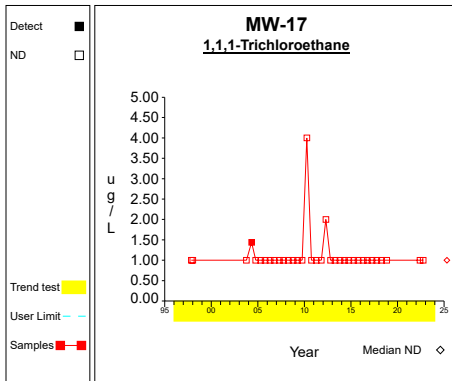


Graph 65

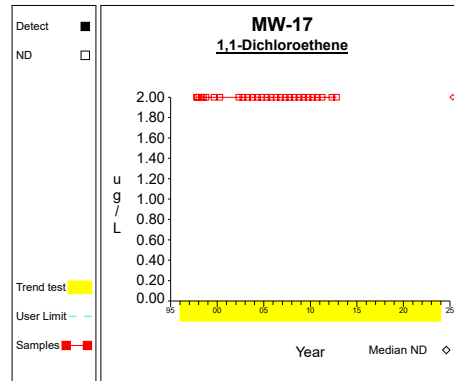


Graph 66

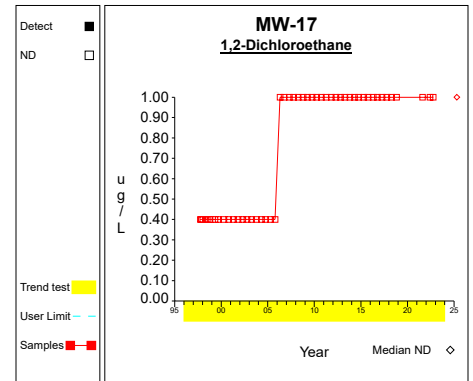
Time Series



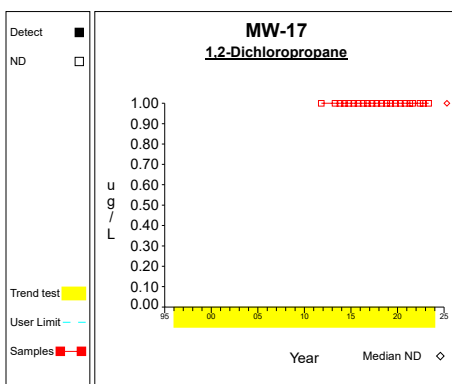
Graph 67



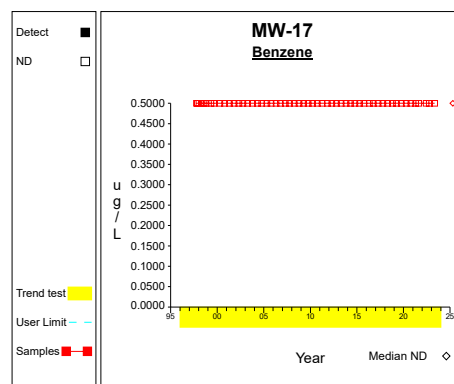
Graph 68



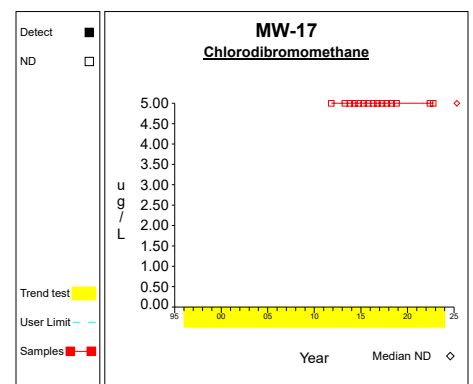
Graph 69



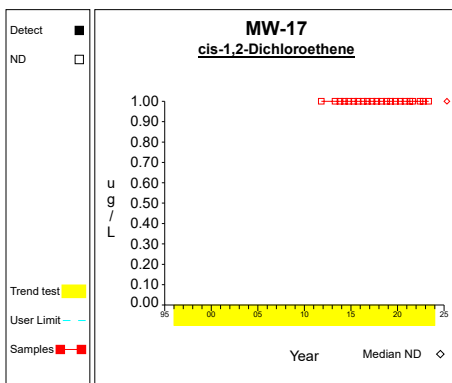
Graph 70



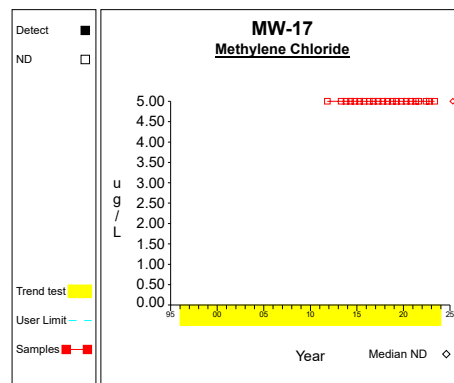
Graph 71



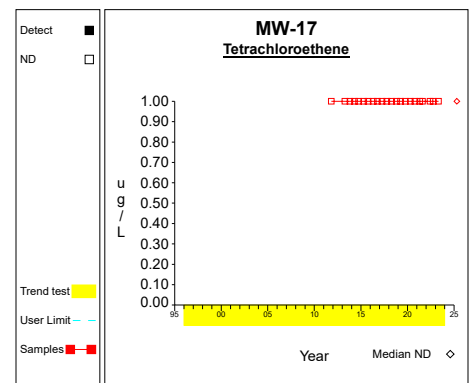
Graph 72



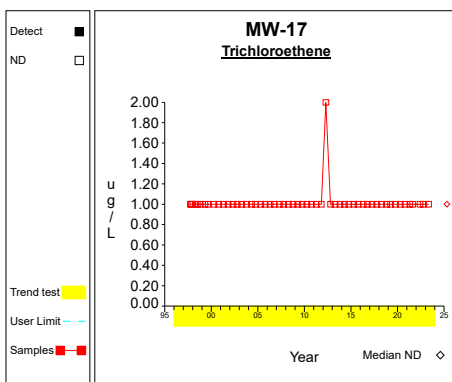
Graph 73



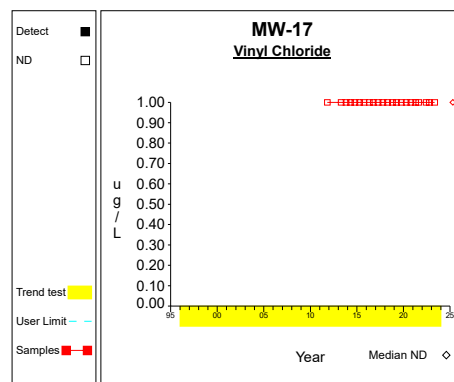
Graph 74



Graph 75

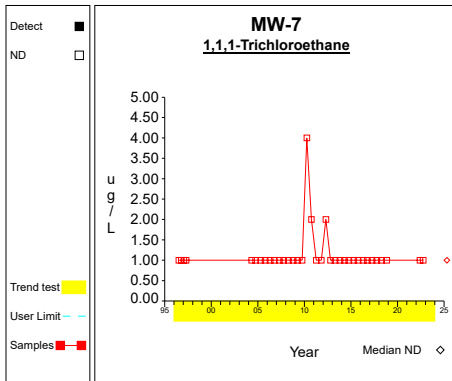


Graph 76

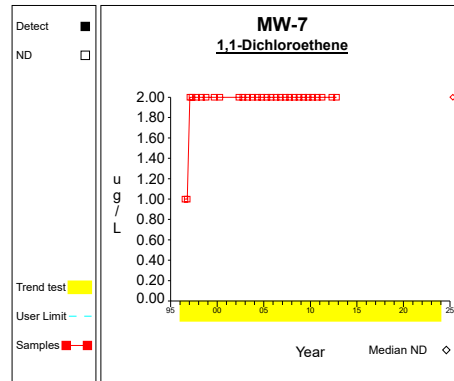


Graph 77

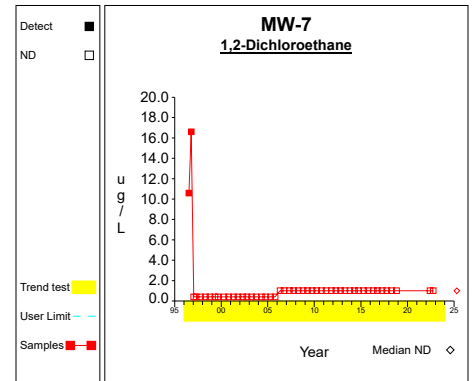
Time Series



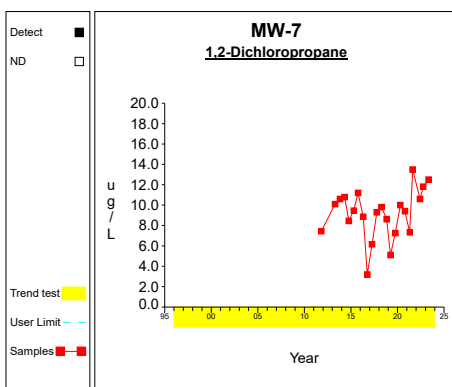
Graph 78



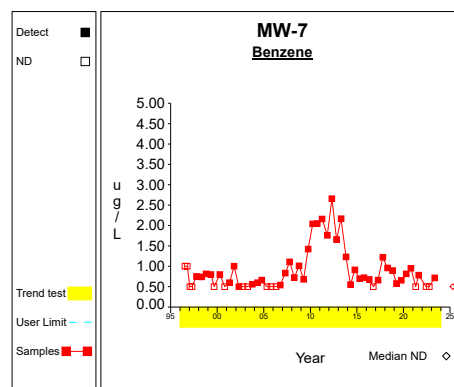
Graph 79



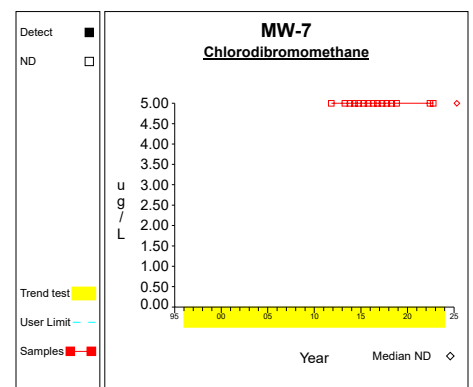
Graph 80



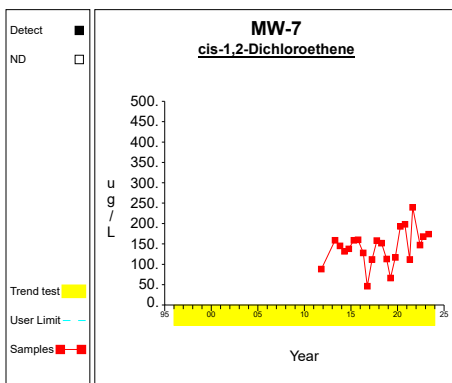
Graph 81



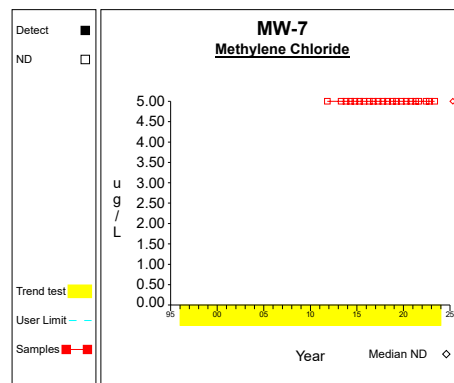
Graph 82



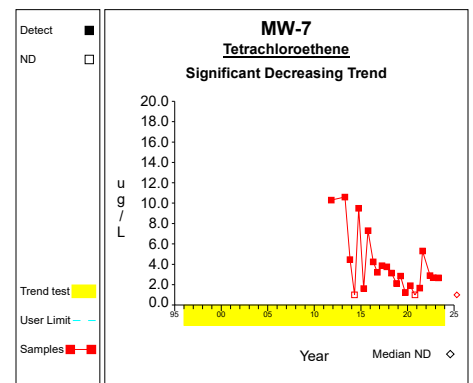
Graph 83



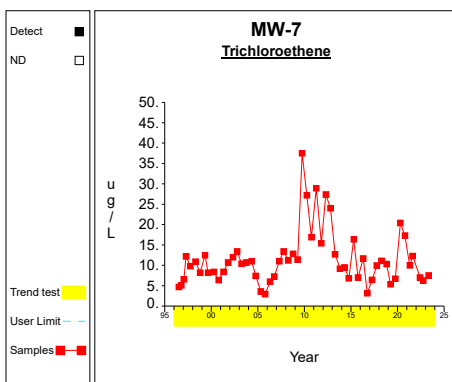
Graph 84



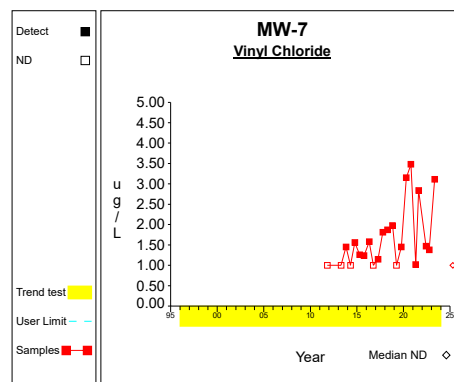
Graph 85



Graph 86

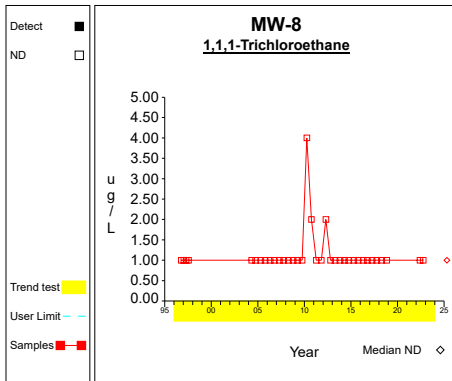


Graph 87

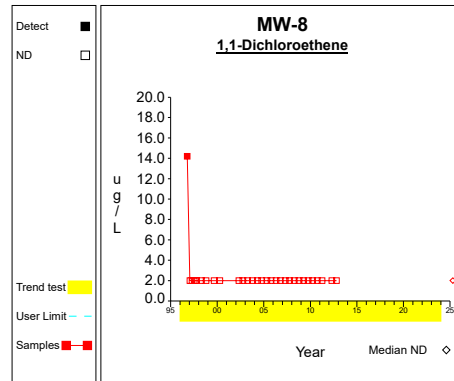


Graph 88

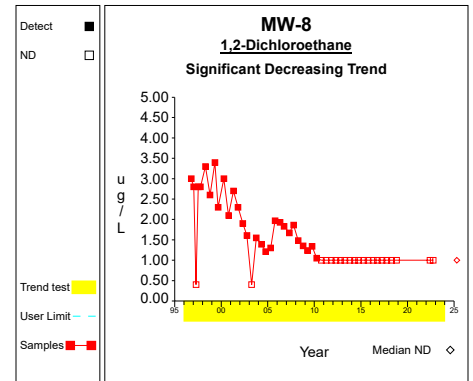
Time Series



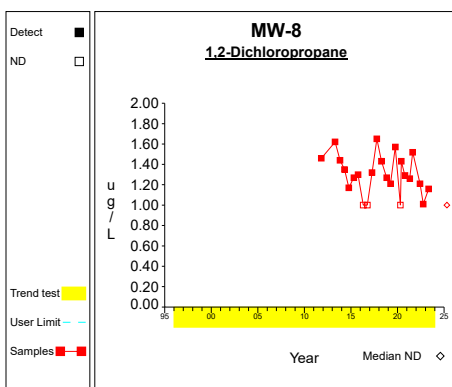
Graph 89



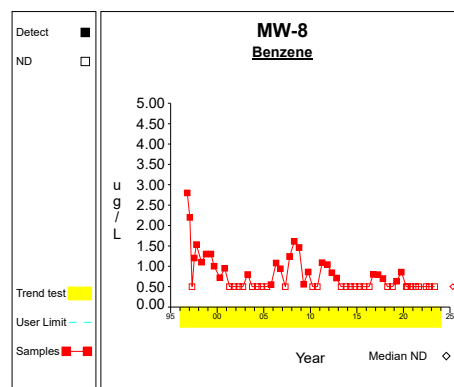
Graph 90



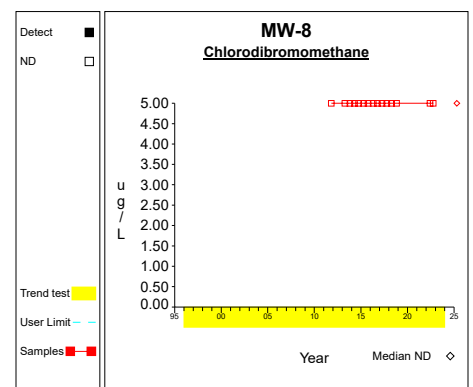
Graph 91



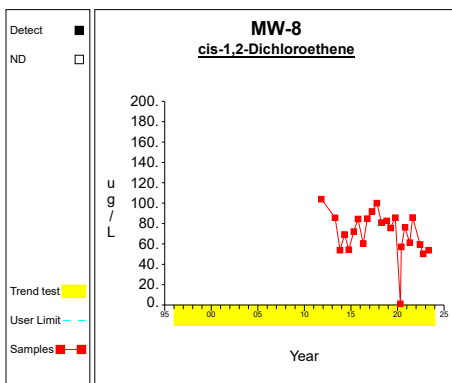
Graph 92



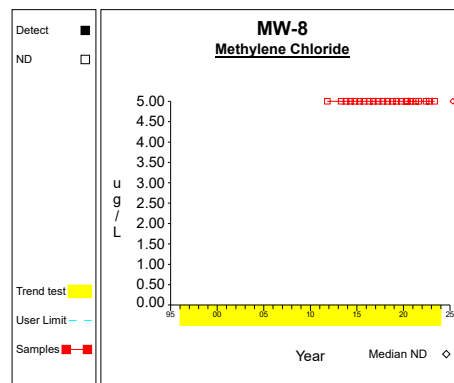
Graph 93



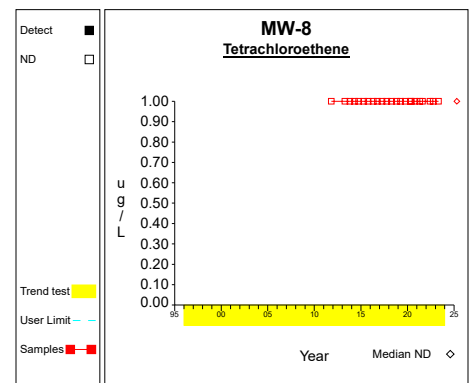
Graph 94



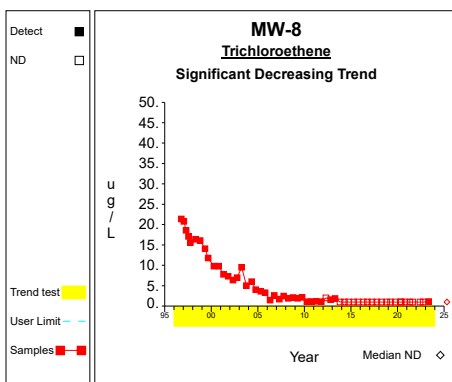
Graph 95



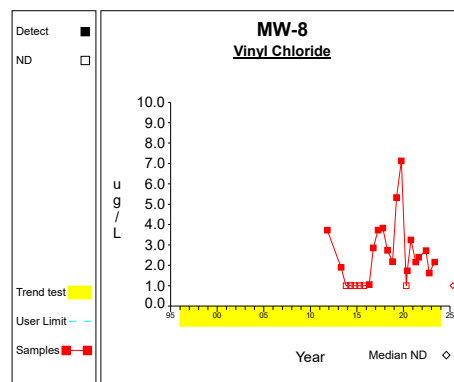
Graph 96



Graph 97

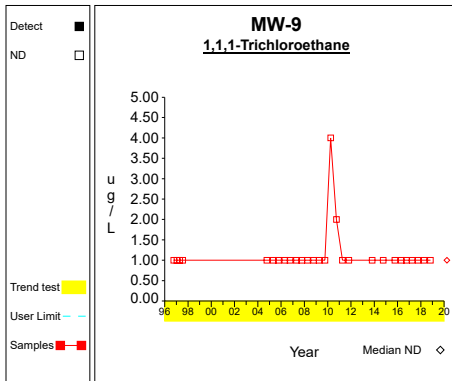


Graph 98

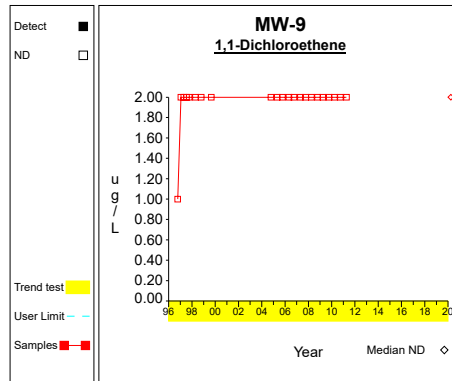


Graph 99

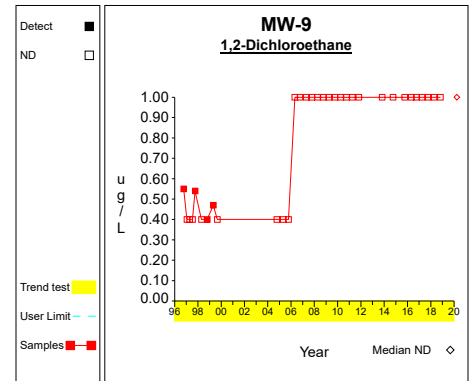
Time Series



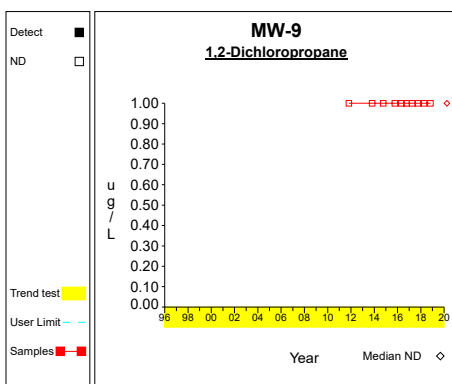
Graph 100



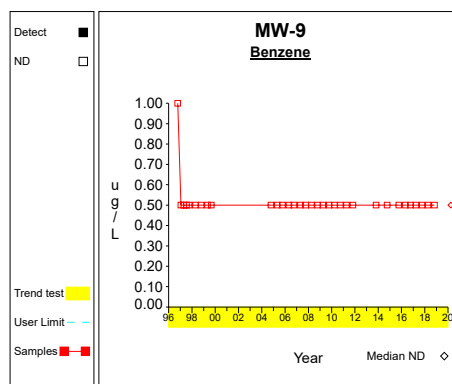
Graph 101



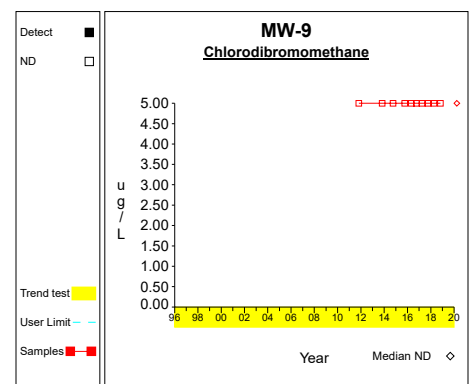
Graph 102



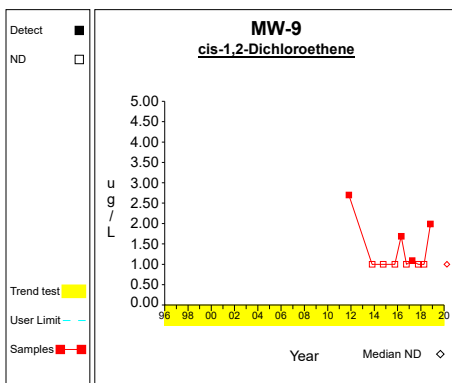
Graph 103



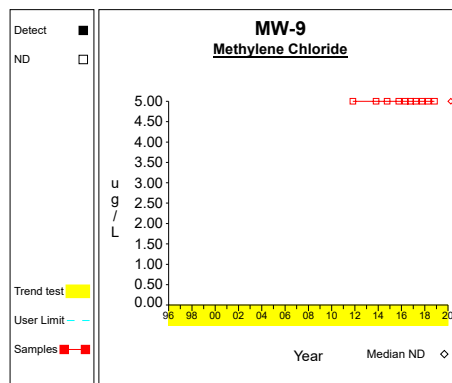
Graph 104



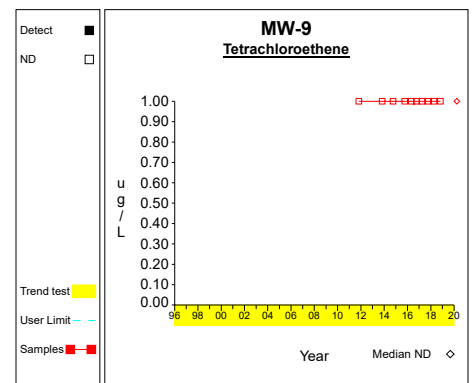
Graph 105



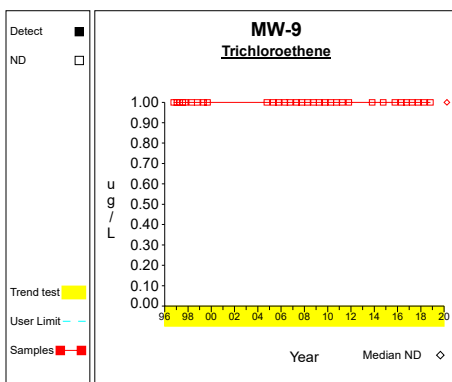
Graph 106



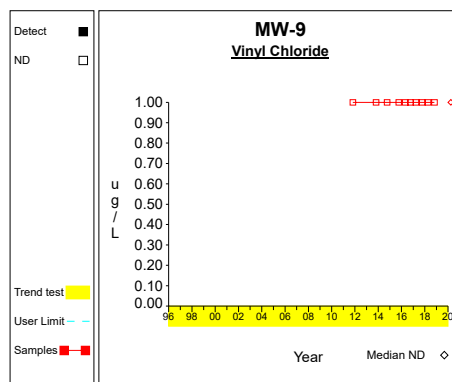
Graph 107



Graph 108



Graph 109



Graph 110

Table 10 – Historic SSI and SSL

Table 10
Historic SSI & SSL
Annual Water Quality Report
Plymouth County Sanitary Landfill
Permit No. 75-SDP-01-74P

KEY:	SSI	SSL LCL>GWPS	SSL UCL>GWPS
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Note: The absence of shading indicates that the condition does not exist.

Monitoring Well	Compound	Sample Date	Each Result (ug/L)	Prediction Limit (ug/L)	95% LCL (ug/L)	95% UCL (ug/L)	GWPS Limit (ug/L)
MW-7	1,2-dichloroethane	4/11/2018	<1.0	1.0	0.500	0.500	5
MW-7	1,2-dichloroethane	10/30/2018	<1.0	1.0	0.500	0.500	5
MW-7	1,2-dichloroethane	4/1/2019	<1.0	1.0	0.500	0.500	5
MW-7	1,2-dichloroethane	10/8/2019	<1.0	1.0	0.500	0.500	5
MW-7	1,2-dichloroethane	4/20/2020	<1.0	1.0	0.500	0.500	5
MW-7	1,2-dichloroethane	10/20/2020	<1.0	1.0	0.500	0.500	5
MW-7	1,2-dichloroethane	4/26/2021	<1.0	1.0	0.500	0.500	5
MW-7	1,2-dichloroethane	8/16/2021	<1.0	1.0	0.500	0.500	5
MW-7	1,2-dichloroethane	6/1/2022	<1.0	1.0	0.500	0.500	5
MW-7	1,2-dichloroethane	10/3/2022	<1.0	1.0	0.500	0.500	5
MW-7	1,2-dichloroethane	5/3/2023	<1.0	1.0	0.500	0.500	5
MW-7	1,2-dichloroethane	10/11/2023	1.29	1.0	0.233	1.162	5
MW-7	1,2-dichloropropane	4/11/2018	9.81	1.0	---	---	5
MW-7	1,2-dichloropropane	10/30/2018	8.62	1.0	---	---	5
MW-7	1,2-dichloropropane	4/1/2019	5.10	1.0	---	---	5
MW-7	1,2-dichloropropane	10/8/2019	7.25	1.0	5.944	9.446	5
MW-7	1,2-dichloropropane	4/20/2020	10.00	1.0	5.933	9.552	5
MW-7	1,2-dichloropropane	10/20/2020	9.41	1.0	6.007	9.873	5
MW-7	1,2-dichloropropane	4/26/2021	7.34	1.0	7.277	9.723	5
MW-7	1,2-dichloropropane	8/16/2021	13.50	1.0	7.846	12.279	5
MW-7	1,2-dichloropropane	6/1/2022	10.60	1.0	7.985	12.440	5
MW-7	1,2-dichloropropane	10/3/2022	11.80	1.0	8.557	13.063	5
MW-7	1,2-dichloropropane	5/3/2023	12.50	1.0	10.666	13.534	5
MW-7	1,2-dichloropropane	10/11/2023	12.90	1.0	10.764	13.136	5
MW-7	benzene	4/11/2018	0.958	0.5	---	---	5
MW-7	benzene	10/30/2018	0.896	0.5	---	---	5
MW-7	benzene	4/1/2019	0.580	0.5	---	---	5
MW-7	benzene	10/8/2019	0.655	0.5	0.614	0.931	5
MW-7	benzene	4/20/2020	0.813	0.5	0.611	0.861	5
MW-7	benzene	10/20/2020	0.949	0.5	0.607	0.892	5
MW-7	benzene	4/26/2021	<0.500	0.5	0.405	0.929	5
MW-7	benzene	8/16/2021	0.783	0.5	0.432	0.965	5
MW-7	benzene	6/1/2022	<0.500	0.5	0.244	0.872	5
MW-7	benzene	10/3/2022	<0.500	0.5	0.152	0.614	5
MW-7	benzene	5/3/2023	0.716	0.5	0.159	0.840	5
MW-7	benzene	10/11/2023	0.878	0.5	0.144	0.903	5
MW-7	cis-1,2-dichloroethylene	4/11/2018	152.00	1.0	---	---	70
MW-7	cis-1,2-dichloroethylene	10/30/2018	113.00	1.0	---	---	70
MW-7	cis-1,2-dichloroethylene	4/1/2019	66.30	1.0	---	---	70
MW-7	cis-1,2-dichloroethylene	10/8/2019	117.00	1.0	81.602	142.548	70
MW-7	cis-1,2-dichloroethylene	4/20/2020	193.00	1.0	76.913	167.737	70
MW-7	cis-1,2-dichloroethylene	10/20/2020	198.00	1.0	88.615	198.535	70
MW-7	cis-1,2-dichloroethylene	4/26/2021	112.00	1.0	114.423	195.577	70
MW-7	cis-1,2-dichloroethylene	8/16/2021	240.00	1.0	139.423	232.077	70
MW-7	cis-1,2-dichloroethylene	6/1/2022	147.00	1.0	125.504	222.996	70
MW-7	cis-1,2-dichloroethylene	10/3/2022	168.00	1.0	119.967	213.533	70
MW-7	cis-1,2-dichloroethylene	5/3/2023	174.00	1.0	134.960	229.540	70
MW-7	cis-1,2-dichloroethylene	10/11/2023	203.00	1.0	145.818	200.182	70
MW-7	PCE	4/11/2018	3.15	1.0	---	---	5
MW-7	PCE	10/30/2018	2.12	1.0	---	---	5
MW-7	PCE	4/1/2019	2.85	1.0	---	---	5
MW-7	PCE	10/8/2019	1.23	1.0	1.596	3.079	5
MW-7	PCE	4/20/2020	1.90	1.0	1.447	2.603	5
MW-7	PCE	10/20/2020	<1.0	1.0	0.754	2.486	5
MW-7	PCE	4/26/2021	1.66	1.0	0.790	1.855	5
MW-7	PCE	8/16/2021	5.30	1.0	0.551	4.129	5
MW-7	PCE	6/1/2022	2.89	1.0	0.808	4.367	5
MW-7	PCE	10/3/2022	2.69	1.0	1.801	4.469	5
MW-7	PCE	5/3/2023	2.67	1.0	1.883	4.892	5
MW-7	PCE	10/11/2023	1.75	1.0	1.900	3.100	5
MW-7	TCE	4/11/2018	11.10	1.0	---	---	5
MW-7	TCE	10/30/2018	10.30	1.0	---	---	5
MW-7	TCE	4/1/2019	5.36	1.0	---	---	5
MW-7	TCE	10/8/2019	6.71	1.0	5.970	10.765	5
MW-7	TCE	4/20/2020	20.40	1.0	4.804	16.581	5
MW-7	TCE	10/20/2020	17.30	1.0	5.924	18.961	5
MW-7	TCE	4/26/2021	10.00	1.0	8.117	19.088	5
MW-7	TCE	8/16/2021	12.30	1.0	10.915	19.085	5
MW-7	TCE	6/1/2022	7.03	1.0	7.902	15.413	5
MW-7	TCE	10/3/2022	6.27	1.0	6.493	11.307	5
MW-7	TCE	5/3/2023	7.50	1.0	5.063	11.487	5
MW-7	TCE	10/11/2023	9.37	1.0	5.990	9.095	5
MW-7	Vinyl Chloride	4/11/2018	1.87	1.0	---	---	2
MW-7	Vinyl Chloride	10/30/2018	1.98	1.0	---	---	2
MW-7	Vinyl Chloride	4/1/2019	<1.0	1.0	---	---	2
MW-7	Vinyl Chloride	10/8/2019	1.45	1.0	0.867	2.033	2
MW-7	Vinyl Chloride	4/20/2020	3.15	1.0	0.813	2.727	2
MW-7	Vinyl Chloride	10/20/2020	3.48	1.0	0.922	3.368	2
MW-7	Vinyl Chloride	4/26/2021	1.02	1.0	1.217	3.333	2
MW-7	Vinyl Chloride	8/16/2021	2.84	1.0	1.670	3.575	2
MW-7	Vinyl Chloride	6/1/2022	1.47	1.0	1.206	3.199	2
MW-7	Vinyl Chloride	10/3/2022	1.38	1.0	0.986	2.370	2
MW-7	Vinyl Chloride	5/3/2023	3.11	1.0	1.139	3.261	2
MW-7	Vinyl Chloride	10/11/2023	4.28	1.0	0.919	4.201	2
MW-7							

Bold Result = A value that exceeds the GWPS.
Bold GWPS = A Site Specific GWPS that is equal to the Prediction Limit. All other GWPS are IAC 567-137 Statewide Standards for Protected Groundwater.

Table 10
Historic SSI & SSL
Annual Water Quality Report
Plymouth County Sanitary Landfill
Permit No. 75-SDP-01-74P

KEY:	SSI	SSL LCL>GWPS	SSL UCL>GWPS
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Note: The absence of shading indicates that the condition does not exist.

Monitoring Well	Compound	Sample Date	Each Result (ug/L)	Prediction Limit (ug/L)	95% LCL (ug/L)	95% UCL (ug/L)	GWPS Limit (ug/L)
MW-8	1,2-dichloropropane	4/11/2018	1.43	1.0	---	---	5
MW-8	1,2-dichloropropane	10/30/2018	1.27	1.0	---	---	5
MW-8	1,2-dichloropropane	4/1/2019	1.21	1.0	---	---	5
MW-8	1,2-dichloropropane	10/8/2019	1.57	1.0	1.229	1.511	5
MW-8	1,2-dichloropropane	5/28/2020	1.43	1.0	1.229	1.511	5
MW-8	1,2-dichloropropane	10/20/2020	1.29	1.0	1.238	1.512	5
MW-8	1,2-dichloropropane	4/26/2021	1.26	1.0	1.264	1.511	5
MW-8	1,2-dichloropropane	8/16/2021	1.52	1.0	1.270	1.480	5
MW-8	1,2-dichloropropane	6/1/2022	1.21	1.0	1.201	1.439	5
MW-8	1,2-dichloropropane	10/3/2022	1.01	1.0	1.068	1.432	5
MW-8	1,2-dichloropropane	5/3/2023	1.16	1.0	0.973	1.477	5
MW-8	1,2-dichloropropane	10/11/2023	<1.0	1.0	0.588	1.352	5
MW-8	benzene	4/11/2018	<0.5	0.5	---	---	5
MW-8	benzene	10/30/2018	<0.5	0.5	---	---	5
MW-8	benzene	4/1/2019	0.632	0.5	---	---	5
MW-8	benzene	10/8/2019	0.858	0.5	0.237	0.758	5
MW-8	benzene	4/20/2020	<0.5	0.5	0.237	0.758	5
MW-8	benzene	10/20/2020	<0.5	0.5	0.237	0.758	5
MW-8	benzene	4/26/2021	<0.5	0.5	0.139	0.665	5
MW-8	benzene	8/16/2021	<0.5	0.5	0.250	0.250	5
MW-8	benzene	6/1/2022	<0.5	0.5	0.250	0.250	5
MW-8	benzene	10/3/2022	<0.5	0.5	0.250	0.250	5
MW-8	benzene	5/3/2023	<0.5	0.5	0.250	0.250	5
MW-8	benzene	10/11/2023	<0.5	0.5	0.250	0.250	5
MW-8	cis-1,2-dichloroethylene	4/11/2018	80.80	1.0	---	---	70
MW-8	cis-1,2-dichloroethylene	10/30/2018	82.60	1.0	---	---	70
MW-8	cis-1,2-dichloroethylene	4/1/2019	75.70	1.0	---	---	70
MW-8	cis-1,2-dichloroethylene	10/8/2019	85.80	1.0	77.567	84.883	70
MW-8	cis-1,2-dichloroethylene	4/20/2020	1.21	1.0	26.427	96.228	70
MW-8	cis-1,2-dichloroethylene	5/28/2020	57.10	1.0	22.261	87.644	70
MW-8	cis-1,2-dichloroethylene	10/20/2020	76.40	1.0	22.324	87.931	70
MW-8	cis-1,2-dichloroethylene	4/26/2021	61.20	1.0	20.477	77.478	70
MW-8	cis-1,2-dichloroethylene	8/16/2021	85.90	1.0	58.558	81.742	70
MW-8	cis-1,2-dichloroethylene	6/1/2022	59.40	1.0	59.753	81.696	70
MW-8	cis-1,2-dichloroethylene	10/3/2022	50.20	1.0	50.956	77.394	70
MW-8	cis-1,2-dichloroethylene	5/3/2023	53.80	1.0	43.309	81.341	70
MW-8	cis-1,2-dichloroethylene	10/11/2023	45.70	1.0	45.462	59.088	70
MW-8	TCE	4/11/2018	<1.0	1.0	---	---	5
MW-8	TCE	10/30/2018	<1.0	1.0	---	---	5
MW-8	TCE	4/1/2019	<1.0	1.0	---	---	5
MW-8	TCE	10/8/2019	<1.0	1.0	0.500	0.500	5
MW-8	TCE	4/20/2020	<1.0	1.0	0.500	0.500	5
MW-8	TCE	10/20/2020	<1.0	1.0	0.500	0.500	5
MW-8	TCE	4/26/2021	<1.0	1.0	0.500	0.500	5
MW-8	TCE	8/16/2021	<1.0	1.0	0.500	0.500	5
MW-8	TCE	6/1/2022	<1.0	1.0	0.500	0.500	5
MW-8	TCE	10/3/2022	<1.0	1.0	0.500	0.500	5
MW-8	TCE	5/3/2023	1.13	1.0	0.287	1.028	5
MW-8	TCE	10/11/2023	<1.0	1.0	0.287	1.028	5
MW-8	vinyl chloride	4/11/2018	2.74	1.0	---	---	2
MW-8	vinyl chloride	10/30/2018	2.18	1.0	---	---	2
MW-8	vinyl chloride	4/1/2019	5.33	1.0	---	---	2
MW-8	vinyl chloride	10/8/2019	7.13	1.0	2.346	6.344	2
MW-8	vinyl chloride	4/20/2020	1.73	1.0	1.857	6.328	2
MW-8	vinyl chloride	10/20/2020	3.25	1.0	2.313	6.407	2
MW-8	vinyl chloride	4/26/2021	2.16	1.0	1.437	5.698	2
MW-8	vinyl chloride	8/16/2021	2.40	1.0	1.831	2.939	2
MW-8	vinyl chloride	6/1/2022	2.72	1.0	2.224	3.041	2
MW-8	vinyl chloride	10/3/2022	1.62	1.0	1.823	2.627	2
MW-8	vinyl chloride	5/3/2023	2.16	1.0	1.679	2.771	2
MW-8	vinyl chloride	10/11/2023	1.03	1.0	1.030	2.735	2
MW-8	chloride	4/11/2018	16.40	7.3	---	---	---
MW-8	chloride	10/30/2018	35.60	7.3	---	---	---
MW-8	chloride	4/1/2019	30.30	7.3	---	---	---
MW-8	chloride	10/8/2019	26.30	7.3	20.121	34.179	---
MW-8	chloride	4/20/2020	21.70	7.3	23.358	33.592	---
MW-8	chloride	10/20/2020	21.70	7.3	21.410	28.590	---
MW-8	chloride	4/26/2021	16.30	7.3	17.959	25.041	---
MW-8	chloride	8/16/2021	15.60	7.3	15.939	21.711	---
MW-8	chloride	6/1/2022	13.10	7.3	13.539	19.811	---
MW-8	chloride	10/3/2022	12.80	7.3	12.926	15.974	---
MW-8	chloride	5/3/2023	12.90	7.3	12.440	14.760	---
MW-8	chloride	10/11/2023	12.70	7.3	12.727	13.023	---
MW-8	Specific Conductance	4/11/2018	1232	1188.4824	---	---	---
MW-8	Specific Conductance	10/30/2018	1473	1188.4824	---	---	---
MW-8	Specific Conductance	4/1/2019	1507	1188.4824	---	---	---
MW-8	Specific Conductance	10/8/2019	1564	1188.4824	1317.357	1570.643	---
MW-8	Specific Conductance	4/20/2020	1622	1188.4824	1484.779	1598.221	---
MW-8	Specific Conductance	10/20/2020	1557	1188.4824	1521.717	1603.283	---
MW-8	Specific Conductance	4/26/2021	1618	1188.4824	1560.364	1620.136	---
MW-8	Specific Conductance	8/16/2021	1834	1188.4824	1552.782	1762.718	---
MW-8	Specific Conductance	6/1/2022	1466	1188.4824	1483.215	1754.285	---
MW-8	Specific Conductance	10/3/2022	1456	1188.4824	1440.527	1746.473	---
MW-8	Specific Conductance	5/3/2023	1390	1188.4824	1362.274	1710.726	---
MW-8	Specific Conductance	10/11/2023	1393	1188.4824	1391.305	1461.196	---
MW-8	TOX	4/11/2018	82.00	11.4	---	---	---
MW-8	TOX	10/30/2018	NT	11.4	---	---	---
MW-8	TOX	4/1/2019	76.50	11.4	---	---	---
MW-8	TOX	10/8/2019	NT	11.4	---	---	---
MW-8	TOX	4/20/2020	<40	11.4	---	---	---
MW-8	TOX	10/20/2020	NT	11.4	---	---	---
MW-8	TOX	4/26/2021	53.00	11.4	33.446	82.304	---
MW-8	TOX	8/16/2021	NT	11.4	---	---	---
MW-8	TOX	6/1/2022	46.00	11.4	28.737	69.013	---
MW-8	TOX	10/3/2022	NT	11.4	---	---	---
MW-8	TOX	5/3/2023	65.00	11.4	29.523	62.477	---
MW-8	TOX	10/11/2023	NT	11.4	---	---	---

Bold Result = A value that exceeds the GWPS.
Bold GWPS = A Site Specific GWPS that is equal to the Prediction Limit. All other GWPS are IAC 567-137 Statewide Standards for Protected Groundwater.

Table 10
Historic SSI & SSL
Annual Water Quality Report
Plymouth County Sanitary Landfill
Permit No. 75-SDP-01-74P

KEY:	SSI	SSL LCL>GWPS	SSL UCL>GWPS
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Note: The absence of shading indicates that the condition does not exist.

Monitoring Well	Compound	Sample Date	Each Result (ug/L)	Prediction Limit (ug/L)	95% LCL (ug/L)	95% UCL (ug/L)	GWPS Limit (ug/L)
MW-12	benzene	4/11/2018	1.610	0.5	---	---	5
MW-12	benzene	10/30/2018	1.520	0.5	---	---	5
MW-12	benzene	4/1/2019	1.450	0.5	---	---	5
MW-12	benzene	10/8/2019	1.870	0.5	1.453	1.772	5
MW-12	benzene	4/20/2020	1.860	0.5	1.483	1.867	5
MW-12	benzene	10/20/2020	2.010	0.5	1.588	2.007	5
MW-12	benzene	4/26/2021	1.840	0.5	1.828	1.962	5
MW-12	benzene	8/16/2021	1.950	0.5	1.846	1.984	5
MW-12	benzene	6/1/2022	0.784	0.5	1.145	2.147	5
MW-12	benzene	10/3/2022	1.460	0.5	1.052	1.965	5
MW-12	benzene	5/3/2023	1.270	0.5	0.799	1.933	5
MW-12	benzene	10/11/2023	1.160	0.5	0.834	1.503	5
MW-12	cis-1,2-dichloroethylene	4/11/2018	50.40	1.0	---	---	70
MW-12	cis-1,2-dichloroethylene	10/30/2018	29.60	1.0	---	---	70
MW-12	cis-1,2-dichloroethylene	4/1/2019	34.30	1.0	---	---	70
MW-12	cis-1,2-dichloroethylene	10/8/2019	47.30	1.0	31.719	49.081	70
MW-12	cis-1,2-dichloroethylene	4/20/2020	52.40	1.0	31.620	50.180	70
MW-12	cis-1,2-dichloroethylene	10/20/2020	55.10	1.0	39.277	55.273	70
MW-12	cis-1,2-dichloroethylene	4/26/2021	49.00	1.0	47.931	53.969	70
MW-12	cis-1,2-dichloroethylene	8/16/2021	64.70	1.0	49.458	61.142	70
MW-12	cis-1,2-dichloroethylene	6/1/2022	31.00	1.0	37.661	62.239	70
MW-12	cis-1,2-dichloroethylene	10/3/2022	35.20	1.0	31.783	58.167	70
MW-12	cis-1,2-dichloroethylene	5/3/2023	31.90	1.0	21.760	59.640	70
MW-12	cis-1,2-dichloroethylene	10/11/2023	31.30	1.0	30.072	34.628	70
MW-12	TCE	4/11/2018	1.23	1.0	---	---	5
MW-12	TCE	10/30/2018	<1.0	1.0	---	---	5
MW-12	TCE	4/1/2019	1.18	1.0	---	---	5
MW-12	TCE	10/8/2019	<1.0	1.0	0.500	1.205	5
MW-12	TCE	4/20/2020	<1.0	1.0	0.376	0.964	5
MW-12	TCE	10/20/2020	1.54	1.0	0.482	1.378	5
MW-12	TCE	4/26/2021	<1.0	1.0	0.310	1.210	5
MW-12	TCE	8/16/2021	<1.0	1.0	0.310	1.210	5
MW-12	TCE	6/1/2022	<1.0	1.0	0.310	1.210	5
MW-12	TCE	10/3/2022	<1.0	1.0	0.500	0.500	5
MW-12	TCE	5/3/2023	<1.0	1.0	0.500	0.500	5
MW-12	TCE	10/11/2023	<1.0	1.0	0.500	0.500	5
MW-12	vinyl chloride	4/11/2018	4.48	1.0	---	---	2
MW-12	vinyl chloride	10/30/2018	9.14	1.0	---	---	2
MW-12	vinyl chloride	4/1/2019	8.96	1.0	---	---	2
MW-12	vinyl chloride	10/8/2019	6.50	1.0	5.351	9.189	2
MW-12	vinyl chloride	4/20/2020	4.90	1.0	5.606	9.144	2
MW-12	vinyl chloride	10/20/2020	5.41	1.0	4.878	8.007	2
MW-12	vinyl chloride	4/26/2021	3.57	1.0	4.042	6.148	2
MW-12	vinyl chloride	8/16/2021	4.08	1.0	3.778	5.202	2
MW-12	vinyl chloride	6/1/2022	1.56	1.0	2.271	5.039	2
MW-12	vinyl chloride	10/3/2022	7.15	1.0	2.088	6.092	2
MW-12	vinyl chloride	5/3/2023	4.19	1.0	1.556	6.934	2
MW-12	vinyl chloride	10/11/2023	3.56	1.0	1.394	6.836	2
MW-12	chloride	4/11/2018	15.20	7.3	---	---	---
MW-12	chloride	10/30/2018	42.60	7.3	---	---	---
MW-12	chloride	4/1/2019	31.50	7.3	---	---	---
MW-12	chloride	10/8/2019	12.00	7.3	12.909	37.741	---
MW-12	chloride	4/20/2020	11.20	7.3	11.006	37.644	---
MW-12	chloride	10/20/2020	12.30	7.3	8.225	25.275	---
MW-12	chloride	4/26/2021	9.32	7.3	10.045	12.365	---
MW-12	chloride	8/16/2021	12.50	7.3	10.068	12.592	---
MW-12	chloride	6/1/2022	32.00	7.3	7.510	25.550	---
MW-12	chloride	10/3/2022	21.70	7.3	10.046	27.714	---
MW-12	chloride	5/3/2023	29.10	7.3	16.285	31.365	---
MW-12	chloride	10/11/2023	34.00	7.3	24.533	33.867	---
MW-12	iron	4/11/2018	22900.00	100	---	---	---
MW-12	iron	10/30/2018	27900.00	100	---	---	---
MW-12	iron	4/1/2019	20200.00	100	---	---	---
MW-12	iron	10/8/2019	27400.00	100	21399.220	27800.780	---
MW-12	iron	4/20/2020	24800.00	100	22024.280	28125.720	---
MW-12	iron	10/20/2020	19400.00	100	19656.450	26243.550	---
MW-12	iron	4/26/2021	27800.00	100	21499.250	28200.750	---
MW-12	iron	8/16/2021	29900.00	100	21526.980	29423.020	---
MW-12	iron	6/1/2022	25300.00	100	21667.440	29532.560	---
MW-12	iron	10/3/2022	9460.00	100	15064.860	31165.140	---
MW-12	iron	5/3/2023	10800.00	100	9967.266	27762.730	---
MW-12	iron	10/11/2023	7290.00	100	6122.277	20302.723	---
MW-12	Specific Conductance	4/11/2018	1304	1188.4824	---	---	---
MW-12	Specific Conductance	10/30/2018	1556	1188.4824	---	---	---
MW-12	Specific Conductance	4/1/2019	1399	1188.4824	---	---	---
MW-12	Specific Conductance	10/8/2019	1499	1188.4824	1343.176	1535.824	---
MW-12	Specific Conductance	4/20/2020	1386	1188.4824	1389.406	1530.594	---
MW-12	Specific Conductance	10/20/2020	1684	1188.4824	1372.838	1611.162	---
MW-12	Specific Conductance	4/26/2021	1637	1188.4824	1434.226	1668.774	---
MW-12	Specific Conductance	8/16/2021	1754	1188.4824	1476.500	1754.000	---
MW-12	Specific Conductance	6/1/2022	1371	1188.4824	1466.541	1756.459	---
MW-12	Specific Conductance	10/3/2022	1494	1188.4824	1419.451	1708.549	---
MW-12	Specific Conductance	5/3/2023	1481	1188.4824	1384.417	1665.583	---
MW-12	Specific Conductance	10/11/2023	1422	1188.4824	1392.842	1491.158	---
MW-12	TOX	4/11/2018	41.90	11.4	---	---	---
MW-12	TOX	10/30/2018	NT	11.4	---	---	---
MW-12	TOX	4/1/2019	37.40	11.4	---	---	---
MW-12	TOX	10/8/2019	NT	11.4	---	---	---
MW-12	TOX	4/20/2020	<40	11.4	---	---	---
MW-12	TOX	10/20/2020	NT	11.4	---	---	---
MW-12	TOX	4/26/2021	42.00	11.4	26.284	44.366	---
MW-12	TOX	8/16/2021	NT	11.4	---	---	---
MW-12	TOX	6/1/2022	48.00	11.4	26.421	47.279	---
MW-12	TOX	10/3/2022	NT	11.4	---	---	---
MW-12	TOX	5/3/2023	47.00	11.4	27.906	50.594	---
MW-12	TOX	10/11/2023	NT	11.4	---	---	---

Bold Result = A value that exceeds the GWPS.
Bold GWPS = A Site Specific GWPS that is equal to the Prediction Limit. All other GWPS are IAC 567-137 Statewide Standards for Protected Groundwater.

Table 11 – Corrective Action Trend Analysis

Table 11
Corrective Action Trend Analysis
Annual Water Quality Report
Plymouth County Sanitary Landfill
Permit No. 75-SDP-01-74P

Monitoring Well	Compound	Sample Date	Current Condition	Trend	N	Projected Year to Completion (IAC 113.10(9)"e"
MW-7	1,2-dichloroethane	4/11/2018	No-SSI	N/A	N/A	N/A
MW-7	1,2-dichloroethane	10/30/2018	No-SSI	N/A	N/A	N/A
MW-7	1,2-dichloroethane	4/1/2019	No-SSI	N/A	N/A	N/A
MW-7	1,2-dichloroethane	10/8/2019	No-SSI	N/A	N/A	N/A
MW-7	1,2-dichloroethane	4/20/2020	No-SSI	N/A	N/A	N/A
MW-7	1,2-dichloroethane	10/20/2020	No-SSI	N/A	N/A	N/A
MW-7	1,2-dichloroethane	4/26/2021	No-SSI	N/A	N/A	N/A
MW-7	1,2-dichloroethane	8/16/2021	No-SSI	N/A	N/A	N/A
MW-7	1,2-dichloroethane	6/1/2022	No-SSI	N/A	N/A	N/A
MW-7	1,2-dichloroethane	10/3/2022	No-SSI	N/A	N/A	N/A
MW-7	1,2-dichloroethane	5/3/2023	No-SSI	N/A	N/A	N/A
MW-7	1,2-dichloroethane	10/11/2023	SSI	N/A	N/A	N/A
MW-7	1,2-dichloropropane	4/11/2018	SSI	N/A	1	2030
MW-7	1,2-dichloropropane	10/30/2018	SSI	N/A	2	2030
MW-7	1,2-dichloropropane	4/1/2019	SSI	N/A	3	2030
MW-7	1,2-dichloropropane	10/8/2019	SSL	increasing	4	2030
MW-7	1,2-dichloropropane	4/20/2020	SSL	increasing	5	2030
MW-7	1,2-dichloropropane	10/20/2020	SSL	increasing	6	2030
MW-7	1,2-dichloropropane	4/26/2021	SSL	increasing	7	2030
MW-7	1,2-dichloropropane	8/16/2021	SSL	increasing	8	2030
MW-7	1,2-dichloropropane	6/1/2022	SSL	increasing	9	2030
MW-7	1,2-dichloropropane	10/3/2022	SSL	increasing	10	2030
MW-7	1,2-dichloropropane	5/3/2023	SSL	increasing	11	2030
MW-7	1,2-dichloropropane	10/11/2023	SSL	increasing	12	2030
MW-7	benzene	4/11/2018	SSI	N/A	N/A	N/A
MW-7	benzene	10/30/2018	SSI	N/A	N/A	N/A
MW-7	benzene	4/1/2019	SSI	N/A	N/A	N/A
MW-7	benzene	10/8/2019	SSI	N/A	N/A	N/A
MW-7	benzene	4/20/2020	SSI	N/A	N/A	N/A
MW-7	benzene	10/20/2020	SSI	N/A	N/A	N/A
MW-7	benzene	4/26/2021	No-SSI	N/A	N/A	N/A
MW-7	benzene	8/16/2021	SSI	N/A	N/A	N/A
MW-7	benzene	6/1/2022	No-SSI	N/A	N/A	N/A
MW-7	benzene	10/3/2022	No-SSI	N/A	N/A	N/A
MW-7	benzene	5/3/2023	SSI	N/A	N/A	N/A
MW-7	benzene	10/11/2023	SSI	N/A	N/A	N/A
MW-7	cis-1,2-dichloroethylene	4/11/2018	SSI	N/A	1	2030
MW-7	cis-1,2-dichloroethylene	10/30/2018	SSI	N/A	2	2030
MW-7	cis-1,2-dichloroethylene	4/1/2019	SSI	N/A	3	2030
MW-7	cis-1,2-dichloroethylene	10/8/2019	SSL	increasing	4	2030
MW-7	cis-1,2-dichloroethylene	4/20/2020	SSL	increasing	5	2030
MW-7	cis-1,2-dichloroethylene	10/20/2020	SSL	increasing	6	2030
MW-7	cis-1,2-dichloroethylene	4/26/2021	SSL	increasing	7	2030
MW-7	cis-1,2-dichloroethylene	8/16/2021	SSL	increasing	8	2030
MW-7	cis-1,2-dichloroethylene	6/1/2022	SSL	increasing	9	2030
MW-7	cis-1,2-dichloroethylene	10/3/2022	SSL	increasing	10	2030
MW-7	cis-1,2-dichloroethylene	5/3/2023	SSL	increasing	11	2030
MW-7	cis-1,2-dichloroethylene	10/11/2023	SSL	increasing	12	2030
MW-7	PCE	4/11/2018	SSI	N/A	N/A	N/A
MW-7	PCE	10/30/2018	SSI	N/A	N/A	N/A
MW-7	PCE	4/1/2019	SSI	N/A	N/A	N/A
MW-7	PCE	10/8/2019	SSI	N/A	N/A	N/A
MW-7	PCE	4/20/2020	SSI	N/A	N/A	N/A
MW-7	PCE	10/20/2020	No-SSI	N/A	N/A	N/A
MW-7	PCE	4/26/2021	SSI	N/A	N/A	N/A
MW-7	PCE	8/16/2021	SSI	N/A	N/A	N/A
MW-7	PCE	6/1/2022	SSI	N/A	N/A	N/A
MW-7	PCE	10/3/2022	SSI	N/A	N/A	N/A
MW-7	PCE	5/3/2023	SSI	N/A	N/A	N/A
MW-7	PCE	10/11/2023	SSI	N/A	N/A	N/A
MW-7	TCE	4/11/2018	SSI	N/A	1	2030
MW-7	TCE	10/30/2018	SSI	N/A	2	2030
MW-7	TCE	4/1/2019	SSI	N/A	3	2030
MW-7	TCE	10/8/2019	SSL	increasing	4	2030
MW-7	TCE	4/20/2020	SSL	increasing	5	2030
MW-7	TCE	10/20/2020	SSL	increasing	6	2030
MW-7	TCE	4/26/2021	SSL	increasing	7	2030
MW-7	TCE	8/16/2021	SSL	increasing	8	2030
MW-7	TCE	6/1/2022	SSL	decreasing	9	2030
MW-7	TCE	10/3/2022	SSL	decreasing	10	2030
MW-7	TCE	5/3/2023	SSL	decreasing	11	2030
MW-7	TCE	10/11/2023	SSL	decreasing	12	2030
MW-7	Vinyl Chloride	4/11/2018	SSI	N/A	N/A	N/A
MW-7	Vinyl Chloride	10/30/2018	SSI	N/A	N/A	N/A
MW-7	Vinyl Chloride	4/1/2019	No-SSI	N/A	N/A	N/A
MW-7	Vinyl Chloride	10/8/2019	SSI	N/A	N/A	N/A
MW-7	Vinyl Chloride	4/20/2020	SSI	N/A	N/A	N/A
MW-7	Vinyl Chloride	10/20/2020	SSI	N/A	N/A	N/A
MW-7	Vinyl Chloride	4/26/2021	SSI	N/A	N/A	N/A
MW-7	Vinyl Chloride	8/16/2021	SSI	N/A	N/A	N/A
MW-7	Vinyl Chloride	6/1/2022	SSI	N/A	N/A	N/A
MW-7	Vinyl Chloride	10/3/2022	SSI	N/A	N/A	N/A
MW-7	Vinyl Chloride	5/3/2023	SSI	N/A	N/A	N/A
MW-7	Vinyl Chloride	10/11/2023	SSI	N/A	N/A	N/A
MW-7			SSI	N/A	N/A	N/A

Bold Result = A value that exceeds the GWPS.
Bold GWPS = A Site Specific GWPS that is equal to the Prediction Limit. All other GWPS are IAC 567-137 Statewide Standards for Protected Groundwa

Table 11
Corrective Action Trend Analysis
Annual Water Quality Report
Plymouth County Sanitary Landfill
Permit No. 75-SDP-01-74P

Monitoring Well	Compound	Sample Date	Current Condition	Trend	N	Projected Year to Completion (IAC 113.10(9)"e"
MW-8	1,2-dichloropropane	4/11/2018	SSI	N/A	N/A	N/A
MW-8	1,2-dichloropropane	10/30/2018	SSI	N/A	N/A	N/A
MW-8	1,2-dichloropropane	4/1/2019	SSI	N/A	N/A	N/A
MW-8	1,2-dichloropropane	10/8/2019	SSI	N/A	N/A	N/A
MW-8	1,2-dichloropropane	5/28/2020	SSI	N/A	N/A	N/A
MW-8	1,2-dichloropropane	10/20/2020	SSI	N/A	N/A	N/A
MW-8	1,2-dichloropropane	4/26/2021	SSI	N/A	N/A	N/A
MW-8	1,2-dichloropropane	8/16/2021	SSI	N/A	N/A	N/A
MW-8	1,2-dichloropropane	6/1/2022	SSI	N/A	N/A	N/A
MW-8	1,2-dichloropropane	10/3/2022	SSI	N/A	N/A	N/A
MW-8	1,2-dichloropropane	5/3/2023	SSI	N/A	N/A	N/A
MW-8	1,2-dichloropropane	10/11/2023	No-SSI	N/A	N/A	N/A
MW-8	benzene	4/11/2018	No-SSI	N/A	N/A	N/A
MW-8	benzene	10/30/2018	No-SSI	N/A	N/A	N/A
MW-8	benzene	4/1/2019	SSI	N/A	N/A	N/A
MW-8	benzene	10/8/2019	SSI	N/A	N/A	N/A
MW-8	benzene	4/20/2020	No-SSI	N/A	N/A	N/A
MW-8	benzene	10/20/2020	No-SSI	N/A	N/A	N/A
MW-8	benzene	4/26/2021	No-SSI	N/A	N/A	N/A
MW-8	benzene	8/16/2021	No-SSI	N/A	N/A	N/A
MW-8	benzene	6/1/2022	No-SSI	N/A	N/A	N/A
MW-8	benzene	10/3/2022	No-SSI	N/A	N/A	N/A
MW-8	benzene	5/3/2023	No-SSI	N/A	N/A	N/A
MW-8	benzene	10/11/2023	No-SSI	N/A	N/A	N/A
MW-8	cis-1,2-dichloroethylene	4/11/2018	SSI	N/A	1	2030
MW-8	cis-1,2-dichloroethylene	10/30/2018	SSI	N/A	2	2030
MW-8	cis-1,2-dichloroethylene	4/1/2019	SSI	N/A	3	2030
MW-8	cis-1,2-dichloroethylene	10/8/2019	SSL	static	4	2030
MW-8	cis-1,2-dichloroethylene	4/20/2020	SSL	static	5	2030
MW-8	cis-1,2-dichloroethylene	5/28/2020	SSL	static	5	2030
MW-8	cis-1,2-dichloroethylene	10/20/2020	SSL	static	6	2030
MW-8	cis-1,2-dichloroethylene	4/26/2021	SSL	static	7	2030
MW-8	cis-1,2-dichloroethylene	8/16/2021	SSL	static	8	2030
MW-8	cis-1,2-dichloroethylene	6/1/2022	SSL	static	9	2030
MW-8	cis-1,2-dichloroethylene	10/3/2022	SSL	static	10	2030
MW-8	cis-1,2-dichloroethylene	5/3/2023	SSL	static	11	2030
MW-8	cis-1,2-dichloroethylene	10/11/2023	SSL	static	12	2030
MW-8	TCE	4/11/2018	No-SSI	N/A	N/A	N/A
MW-8	TCE	10/30/2018	No-SSI	N/A	N/A	N/A
MW-8	TCE	4/1/2019	No-SSI	N/A	N/A	N/A
MW-8	TCE	10/8/2019	No-SSI	N/A	N/A	N/A
MW-8	TCE	4/20/2020	No-SSI	N/A	N/A	N/A
MW-8	TCE	10/20/2020	No-SSI	N/A	N/A	N/A
MW-8	TCE	4/26/2021	No-SSI	N/A	N/A	N/A
MW-8	TCE	8/16/2021	No-SSI	N/A	N/A	N/A
MW-8	TCE	6/1/2022	No-SSI	N/A	N/A	N/A
MW-8	TCE	10/3/2022	No-SSI	N/A	N/A	N/A
MW-8	TCE	5/3/2023	SSI	N/A	N/A	N/A
MW-8	TCE	10/11/2023	No-SSI	N/A	N/A	N/A
MW-8	vinyl chloride	4/11/2018	SSI	N/A	1	2030
MW-8	vinyl chloride	10/30/2018	SSI	N/A	2	2030
MW-8	vinyl chloride	4/1/2019	SSI	N/A	3	2030
MW-8	vinyl chloride	10/8/2019	SSL	decreasing	4	2030
MW-8	vinyl chloride	4/20/2020	SSL	decreasing	5	2030
MW-8	vinyl chloride	10/20/2020	SSL	decreasing	6	2030
MW-8	vinyl chloride	4/26/2021	SSL	decreasing	7	2030
MW-8	vinyl chloride	8/16/2021	SSL	decreasing	8	2030
MW-8	vinyl chloride	6/1/2022	SSL	decreasing	9	2030
MW-8	vinyl chloride	10/3/2022	SSL	decreasing	10	2030
MW-8	vinyl chloride	5/3/2023	SSL	decreasing	11	2030
MW-8	vinyl chloride	10/11/2023	SSL	decreasing	12	2030
MW-8	chloride	4/11/2018	SSI	N/A	N/A	N/A
MW-8	chloride	10/30/2018	SSI	N/A	N/A	N/A
MW-8	chloride	4/1/2019	SSI	N/A	N/A	N/A
MW-8	chloride	10/8/2019	SSI	N/A	N/A	N/A
MW-8	chloride	4/20/2020	SSI	N/A	N/A	N/A
MW-8	chloride	10/20/2020	SSI	N/A	N/A	N/A
MW-8	chloride	4/26/2021	SSI	N/A	N/A	N/A
MW-8	chloride	8/16/2021	SSI	N/A	N/A	N/A
MW-8	chloride	6/1/2022	SSI	N/A	N/A	N/A
MW-8	chloride	10/3/2022	SSI	N/A	N/A	N/A
MW-8	chloride	5/3/2023	SSI	N/A	N/A	N/A
MW-8	chloride	10/11/2023	SSI	N/A	N/A	N/A
MW-8	Specific Conductance	4/11/2018	SSI	N/A	N/A	N/A
MW-8	Specific Conductance	10/30/2018	SSI	N/A	N/A	N/A
MW-8	Specific Conductance	4/1/2019	SSI	N/A	N/A	N/A
MW-8	Specific Conductance	10/8/2019	SSI	N/A	N/A	N/A
MW-8	Specific Conductance	4/20/2020	SSI	N/A	N/A	N/A
MW-8	Specific Conductance	10/20/2020	SSI	N/A	N/A	N/A
MW-8	Specific Conductance	4/26/2021	SSI	N/A	N/A	N/A
MW-8	Specific Conductance	8/16/2021	SSI	N/A	N/A	N/A
MW-8	Specific Conductance	6/1/2022	SSI	N/A	N/A	N/A
MW-8	Specific Conductance	10/3/2022	SSI	N/A	N/A	N/A
MW-8	Specific Conductance	5/3/2023	SSI	N/A	N/A	N/A
MW-8	Specific Conductance	10/11/2023	SSI	N/A	N/A	N/A
MW-8	TOX	4/11/2018	SSI	N/A	N/A	N/A
MW-8	TOX	10/30/2018	---	N/A	N/A	N/A
MW-8	TOX	4/1/2019	SSI	N/A	N/A	N/A
MW-8	TOX	10/8/2019	---	N/A	N/A	N/A
MW-8	TOX	4/20/2020	SSI	N/A	N/A	N/A
MW-8	TOX	10/20/2020	---	N/A	N/A	N/A
MW-8	TOX	4/26/2021	SSI	N/A	N/A	N/A
MW-8	TOX	8/16/2021	---	N/A	N/A	N/A
MW-8	TOX	6/1/2022	SSI	N/A	N/A	N/A
MW-8	TOX	10/3/2022	---	N/A	N/A	N/A
MW-8	TOX	5/3/2023	SSI	N/A	N/A	N/A
MW-8	TOX	10/11/2023	---	N/A	N/A	N/A

Bold Result = A value that exceeds the GWPS.
Bold GWPS = A Site Specific GWPS that is equal to the Prediction Limit. All other GWPS are IAC 567-137 Statewide Standards for Protected Groundwater.

Table 11
Corrective Action Trend Analysis
Annual Water Quality Report
Plymouth County Sanitary Landfill
Permit No. 75-SDP-01-74P

Monitoring Well	Compound	Sample Date	Current Condition	Trend	N	Projected Year to Completion (IAC 113.10(9)"e"
MW-12	benzene	4/11/2018	SSI	N/A	N/A	N/A
MW-12	benzene	10/30/2018	SSI	N/A	N/A	N/A
MW-12	benzene	4/1/2019	SSI	N/A	N/A	N/A
MW-12	benzene	10/8/2019	SSI	N/A	N/A	N/A
MW-12	benzene	4/20/2020	SSI	N/A	N/A	N/A
MW-12	benzene	10/20/2020	SSI	N/A	N/A	N/A
MW-12	benzene	4/26/2021	SSI	N/A	N/A	N/A
MW-12	benzene	8/16/2021	SSI	N/A	N/A	N/A
MW-12	benzene	6/1/2022	SSI	N/A	N/A	N/A
MW-12	benzene	10/3/2022	SSI	N/A	N/A	N/A
MW-12	benzene	5/3/2023	SSI	N/A	N/A	N/A
MW-12	benzene	10/11/2023	SSI	N/A	N/A	N/A
MW-12	cis-1,2-dichloroethylene	4/11/2018	SSI	N/A	N/A	N/A
MW-12	cis-1,2-dichloroethylene	10/30/2018	SSI	N/A	N/A	N/A
MW-12	cis-1,2-dichloroethylene	4/1/2019	SSI	N/A	N/A	N/A
MW-12	cis-1,2-dichloroethylene	10/8/2019	SSI	N/A	N/A	N/A
MW-12	cis-1,2-dichloroethylene	4/20/2020	SSI	N/A	N/A	N/A
MW-12	cis-1,2-dichloroethylene	10/20/2020	SSI	N/A	N/A	N/A
MW-12	cis-1,2-dichloroethylene	4/26/2021	SSI	N/A	N/A	N/A
MW-12	cis-1,2-dichloroethylene	8/16/2021	SSI	N/A	N/A	N/A
MW-12	cis-1,2-dichloroethylene	6/1/2022	SSI	N/A	N/A	N/A
MW-12	cis-1,2-dichloroethylene	10/3/2022	SSI	N/A	N/A	N/A
MW-12	cis-1,2-dichloroethylene	5/3/2023	SSI	N/A	N/A	N/A
MW-12	cis-1,2-dichloroethylene	10/11/2023	SSI	N/A	N/A	N/A
MW-12	TCE	4/11/2018	SSI	N/A	N/A	N/A
MW-12	TCE	10/30/2018	No-SSI	N/A	N/A	N/A
MW-12	TCE	4/1/2019	SSI	N/A	N/A	N/A
MW-12	TCE	10/8/2019	No-SSI	N/A	N/A	N/A
MW-12	TCE	4/20/2020	No-SSI	N/A	N/A	N/A
MW-12	TCE	10/20/2020	SSI	N/A	N/A	N/A
MW-12	TCE	4/26/2021	No-SSI	N/A	N/A	N/A
MW-12	TCE	8/16/2021	No-SSI	N/A	N/A	N/A
MW-12	TCE	6/1/2022	No-SSI	N/A	N/A	N/A
MW-12	TCE	10/3/2022	No-SSI	N/A	N/A	N/A
MW-12	TCE	5/3/2023	No-SSI	N/A	N/A	N/A
MW-12	TCE	10/11/2023	No-SSI	N/A	N/A	N/A
MW-12	vinyl chloride	4/11/2018	SSI	N/A	1	2030
MW-12	vinyl chloride	10/30/2018	SSI	N/A	2	2030
MW-12	vinyl chloride	4/1/2019	SSI	N/A	3	2030
MW-12	vinyl chloride	10/8/2019	SSL	decreasing	4	2030
MW-12	vinyl chloride	4/20/2020	SSL	decreasing	5	2030
MW-12	vinyl chloride	10/20/2020	SSL	decreasing	6	2030
MW-12	vinyl chloride	4/26/2021	SSL	decreasing	7	2030
MW-12	vinyl chloride	8/16/2021	SSL	decreasing	8	2030
MW-12	vinyl chloride	6/1/2022	SSL	decreasing	9	2030
MW-12	vinyl chloride	10/3/2022	SSL	decreasing	10	2030
MW-12	vinyl chloride	5/3/2023	SSL	decreasing	11	2030
MW-12	vinyl chloride	10/11/2023	SSL	decreasing	12	2030
MW-12	chloride	4/11/2018	SSI	N/A	N/A	N/A
MW-12	chloride	10/30/2018	SSI	N/A	N/A	N/A
MW-12	chloride	4/1/2019	SSI	N/A	N/A	N/A
MW-12	chloride	10/8/2019	SSI	N/A	N/A	N/A
MW-12	chloride	4/20/2020	SSI	N/A	N/A	N/A
MW-12	chloride	10/20/2020	SSI	N/A	N/A	N/A
MW-12	chloride	4/26/2021	SSI	N/A	N/A	N/A
MW-12	chloride	8/16/2021	SSI	N/A	N/A	N/A
MW-12	chloride	6/1/2022	SSI	N/A	N/A	N/A
MW-12	chloride	10/3/2022	SSI	N/A	N/A	N/A
MW-12	chloride	5/3/2023	SSI	N/A	N/A	N/A
MW-12	chloride	10/11/2023	SSI	N/A	N/A	N/A
MW-12	iron	4/11/2018	SSI	N/A	N/A	N/A
MW-12	iron	10/30/2018	SSI	N/A	N/A	N/A
MW-12	iron	4/1/2019	SSI	N/A	N/A	N/A
MW-12	iron	10/8/2019	SSI	N/A	N/A	N/A
MW-12	iron	4/20/2020	SSI	N/A	N/A	N/A
MW-12	iron	10/20/2020	SSI	N/A	N/A	N/A
MW-12	iron	4/26/2021	SSI	N/A	N/A	N/A
MW-12	iron	8/16/2021	SSI	N/A	N/A	N/A
MW-12	iron	6/1/2022	SSI	N/A	N/A	N/A
MW-12	iron	10/3/2022	SSI	N/A	N/A	N/A
MW-12	iron	5/3/2023	SSI	N/A	N/A	N/A
MW-12	iron	10/11/2023	SSI	N/A	N/A	N/A
MW-12	Specific Conductance	4/11/2018	SSI	N/A	N/A	N/A
MW-12	Specific Conductance	10/30/2018	SSI	N/A	N/A	N/A
MW-12	Specific Conductance	4/1/2019	SSI	N/A	N/A	N/A
MW-12	Specific Conductance	10/8/2019	SSI	N/A	N/A	N/A
MW-12	Specific Conductance	4/20/2020	SSI	N/A	N/A	N/A
MW-12	Specific Conductance	10/20/2020	SSI	N/A	N/A	N/A
MW-12	Specific Conductance	4/26/2021	SSI	N/A	N/A	N/A
MW-12	Specific Conductance	8/16/2021	SSI	N/A	N/A	N/A
MW-12	Specific Conductance	6/1/2022	SSI	N/A	N/A	N/A
MW-12	Specific Conductance	10/3/2022	SSI	N/A	N/A	N/A
MW-12	Specific Conductance	5/3/2023	SSI	N/A	N/A	N/A
MW-12	Specific Conductance	10/11/2023	SSI	N/A	N/A	N/A
MW-12	TOX	4/11/2018	SSI	N/A	N/A	N/A
MW-12	TOX	10/30/2018	---	N/A	N/A	N/A
MW-12	TOX	4/1/2019	SSI	N/A	N/A	N/A
MW-12	TOX	10/8/2019	---	N/A	N/A	N/A
MW-12	TOX	4/20/2020	SSI	N/A	N/A	N/A
MW-12	TOX	10/20/2020	---	N/A	N/A	N/A
MW-12	TOX	4/26/2021	SSI	N/A	N/A	N/A
MW-12	TOX	8/16/2021	---	N/A	N/A	N/A
MW-12	TOX	6/1/2022	SSI	N/A	N/A	N/A
MW-12	TOX	10/3/2022	---	N/A	N/A	N/A
MW-12	TOX	5/3/2023	SSI	N/A	N/A	N/A
MW-12	TOX	10/11/2023	---	N/A	N/A	N/A

Bold Result = A value that exceeds the GWPS.
Bold GWPS = A Site Specific GWPS that is equal to the Prediction Limit. All other GWPS are IAC 567-137 Statewide Standards for Protected Groundwa

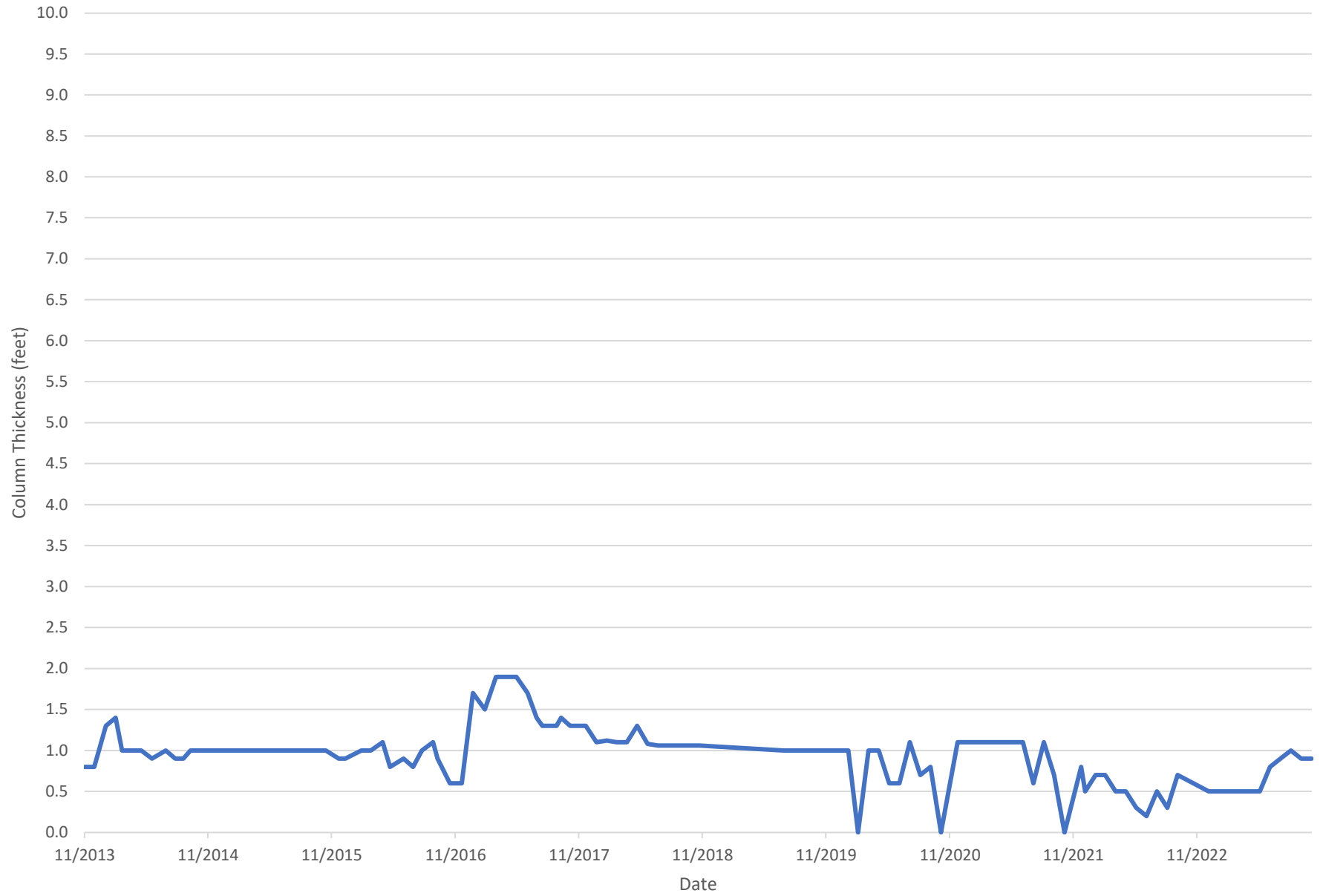
Table 12 – Leachate Levels

HISTORICAL LEACHATE COLUMN THICKNESS
PLYMOUTH COUNTY SANITARY LANDFILL

Date	LW-1	LW-2	LW-3	LW-4
11/2013	0.8	2.0	6.5	4.1
12/2013	0.8	2.0	6.3	4.2
1/2014	1.3	2.0	6.2	4.6
2/2014	1.4	1.9	6.1	4.1
3/2014	1.0	1.9	6.0	4.5
4/2014	1.0	1.9	5.9	3.8
5/2014	1.0	1.9	5.6	2.6
6/2014	0.9	2.0	8.0	4.8
7/2014	1.0	2.0	7.0	4.0
8/2014	0.9	2.0	6.6	3.8
9/2014	0.9	2.0	7.7	4.0
10/2014	1.0	2.0	7.8	3.8
11/2015	1.0	2.0	4.5	3.1
12/2015	0.9	2.0	6.5	3.0
1/2016	0.9	2.0	6.0	4.8
2/2016	1.0	2.0	3.8	5.5
3/2016	1.0	2.0	4.6	6.6
4/2016	1.1	2.0	5.8	7.2
5/2016	0.8	2.0	5.4	3.7
6/2016	0.9	2.0	3.1	7.3
7/2016	0.8	2.0	2.7	5.1
8/2016	1.0	2.0	2.7	4.4
9/2016	1.1	2.0	3.8	4.6
10/2016	0.9	2.0	3.0	1.9
11/2016	0.6	2.0	3.0	2.4
12/2016	0.6	2.0	1.2	1.0
1/2017	1.7	2.1	2.3	2.0
2/2017	1.5	1.9	2.4	3.0
3/2017	1.9	2.0	2.4	3.2
4/2017	1.9	1.9	2.2	2.7
5/2017	1.9	2.0	2.7	2.9
6/2017	1.7	2.9	1.3	3.0
7/2017	1.4	3.7	3.8	3.2
8/2017	1.3	3.7	3.8	5.6
9/2017	1.3	2.9	2.9	4.8
10/2017	1.4	2.9	2.7	4.2
11/2017	1.3	2.9	2.8	4.1
12/2017	1.3	2.9	2.8	4.8
1/2018	1.1	2.1	2.6	3.1
2/2018	1.1	2.7	3.2	3.6
3/2018	1.1	2.4	2.8	3.1
4/2018	1.1	2.7	4.1	3.7
5/2018	1.3	2.7	4.1	3.7
6/2018	1.1	2.7	2.6	3.7
7/2018	1.1	2.7	3.1	3.6
8/2018	1.1	2.7	3.2	3.8
9/2018	1.1	2.7	3.4	3.6
10/2018	1.1	2.8	3.6	3.7
11/2018	1.1	2.8	3.5	3.6
7/2019	1.0	5.0	5.0	2.2
8/2019	1.0	5.0	7.6	3.0
9/2019	1.0	5.0	4.0	4.0
10/2019	1.0	5.0	2.8	5.0
11/2019	1.1	5.2	7.5	7.1
12/2019	1.1	5.2	8.2	7.1
1/2020	1.1	5.2	8.5	7.1
2/2020	1.1	5.2	8.8	7.7
3/2020	Dry	5.6	9.0	7.1
4/2020	1.1	5.4	9.0	6.1
5/2020	1.1	5.4	8.4	6.6
6/2020	0.7	5.7	5.3	8.1
7/2020	0.6	5.3	4.5	2.1
8/2020	1.1	5.6	4.1	2.1
9/2020	0.7	5.2	6.2	1.8
10/2020	0.8	4.7	5.1	2.1
11/2020	Dry	5.2	5.3	2.1
12/2020	1.1	5.2	6.6	7.1
1/2021	1.1	4.7	6.6	7.1
2/2021	1.1	4.4	6.6	7.1
3/2021	1.1	4.2	6.5	6.6
4/2021	1.1	4.3	4.9	1.2
5/2021	1.1	4.7	4.7	1.6
6/2021	1.1	4.6	4.5	1.3
7/2021	1.1	4.7	2.0	1.1
8/2021	0.6	5.2	6.4	1.2
9/2021	1.1	5.2	4.1	7.6
10/2021	0.7	5.0	5.3	7.1
11/2021	Dry	4.9	6.0	7.6
12/2021	0.8	5.2	6.5	7.9
1/2022	0.5	5.6	6.8	7.5
2/2022	0.7	5.2	6.7	7.3
3/2022	0.7	4.9	6.6	7.0
4/2022	0.5	5.2	6.6	6.8
5/2022	0.5	4.9	5.2	5.7
6/2022	0.3	5.2	3.5	4.9
7/2022	0.2	4.5	6.6	5.9
8/2022	0.5	4.7	6.8	5.7
9/2022	0.3	4.9	6.8	5.2
10/2022	0.7	5.1	6.9	4.8
1/2023	0.5	5.3	7.0	7.5
2/2023	0.5	5.1	7.0	7.4
3/2023	0.5	5.2	6.9	7.1
4/2023	0.5	5.3	6.7	6.3
5/2023	0.5	5.2	6.6	4.7
6/2023	0.5	5.4	6.8	5.2
7/2023	0.8	6.0	7.6	6.9
8/2023	0.9	6.0	7.7	7.1
9/2023	1.0	6.0	7.4	6.9
10/2023	0.9	6.0	7.4	6.9
11/2023	0.9	6.1	7.3	7.0

Levels measured by Landfill personnel.
NM = Not measured.

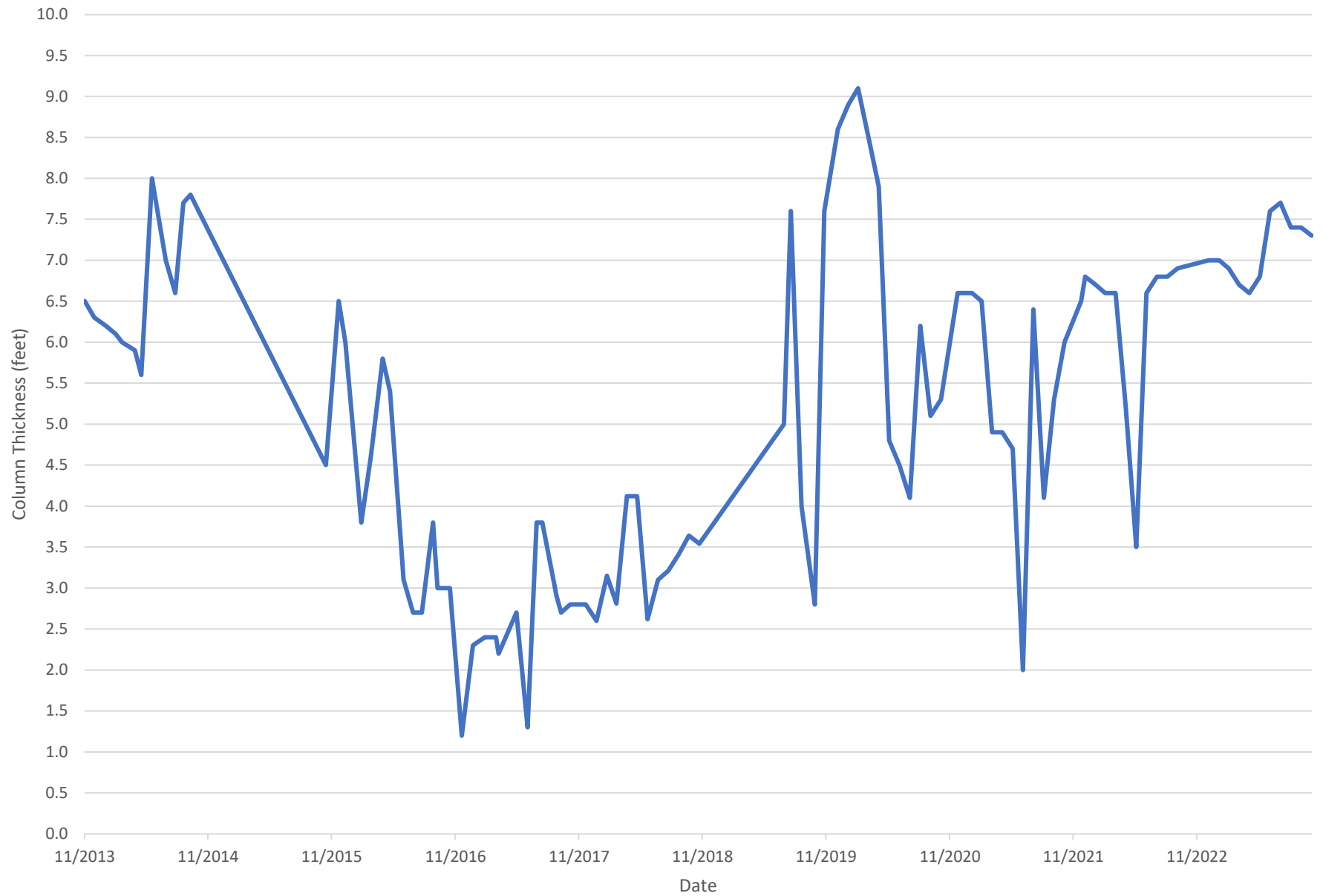
LW-1 Historical Leachate Column Thickness



LW-2 Historical Leachate Column Thickness



LW-3 Historical Leachate Column Thickness



LW-4 Historical Leachate Column Thickness



Table 13 – Gas Monitoring Summary

TABLE 13
Annual Methane Gas Evaluation Report
Plymouth County Sanitary Landfill
75-SDP-01-74P
2023

Location/Date	January-March		April-June		July-September		10/11/23		11/27/2023
	Screen	% LEL	Screen	% LEL	Screen	% LEL	Screen	% LEL	% LEL
Equipment Building	N/A	0	N/A	0	N/A	0	N/A	0	NM
Transfer Station	N/A	0	N/A	0	N/A	0	N/A	0	NM
Storage/RCC	N/A	0	N/A	0	N/A	0	N/A	0	NM
Office Building	N/A	0	N/A	0	N/A	0	N/A	0	NM
Scale	N/A	0	N/A	0	N/A	0	N/A	0	NM
MW-7	NM	0	E	0	E	0	E	0	NM
MW-8	NM	0	E	0	E	0	E	0	NM
MW-9	NM	0	E	0	E	0	E	0	NM
MW-10	NM	0	E	0	E	0	E	0	NM
MW-11	NM	0	E	0	E	0	E	0	NM
MW-12	NM	0	E	0	E	0	E	0	NM
MW-13	NM	0	E	0	E	0	E	100*	0**
MW-14	NM	0	E	0	E	0	E	0	NM
MW-16	NM	0	E	0	E	0	E	0	NM
MW-17	NM	0	E	0	E	0	E	0	NM
Gas Vent GV-1	E	0	E	0	E	0	E	0	NM
Gas Vent GV-2	E	0	E	0	E	0	E	0	NM
Gas Vent GV-3	E	0	E	0	E	0	E	0	NM
Gas Vent GV-4	E	100	E	100	E	100	E	100	NM
Gas Vent GV-5	E	100	E	100	E	100	E	5	NM
Gas Vent GV-6	E	27	E	0	E	12	E	10	NM
Gas Vent GV-7	E	100	E	66	E	100	E	100	NM
Gas Vent GV-8	E	100	E	100	E	96	E	7	NM
Gas Vent GV-9	E	100	E	100	E	100	E	8	NM
Gas Vent GV-10	E	0	E	0	E	7	E	0	NM
Gas Vent GV-11	E	0	E	0	E	0	E	0	NM

E= Exposed Screen
S= Submerged Screen
N/A = Not Applicable
NM = Not Measured

* = Measured on October 11, 2023

** = Measured for verification November 27, 2023

APPENDIX A

Field Sampling Forms

LANDFILL GROUNDWATER SAMPLING DATA SHEET

Project Information

Project Name Plymouth County Sanitary Landfill
 Project Location LeMars, IA
 Project Number PCSWA18001
 SLF Permit No. 75SDP-0474P

Sampling Information

Date Sampled 5-3-23
 Sampling Crew Kent Averbold
 Equipment Geo Tech
 Water Level OAKTON
 pH/Conductivity 5-2-23
 Equipment Calibration Date 5-2-23
 Equipment Calibration Time

Weather Conditions

Recorded Depth	Well#	Date	Static Water Level	Measured Well Depth	Purge Time Start	Purge Time Finish	Bailing Equipment (see note)	Purge Volume Gal	Stabilized pH	Stabilized Conductivity	Stabilized Temperature	Methane Gas	Capped Properly Y/N
32.7	MW-7	5/3	25.3	32.9	9:00	9:05	S	3.00	6.66	1713	12.9	0%	Y
27.6	MW-8	5-3	23.7	27.8	9:21	9:23	S	1.64	6.95	1390	12.8	0%	Y
25.5	MW-9	5-3	24.2	25.3	-	-	-	.44	-	-	-	-	
32.8	MW-10	5-3	22.7	32.6	10:35	10:41	S	2.78	6.91	1538	12.4	0%	Y
39	MW-11	5-3	32.2	39.1	11:01	11:06	S	2.70	6.75	1259	13.5	0%	Y
53.6	MW-12	5-3	45.6	53.6	12:00	12:04	S	3.2	6.57	1481	15.0	0%	Y
36.56	MW-13	5-3	25.9	36.5	9:54	10:03	S	4.25	6.93	1446	12.1	0%	Y
50.16	MW-14	5/3	47.4	50.9	11:35	-	-	1.4	6.64	1501	14.5	0%	Y
43.2	MW-15	-	-	43.2	-	-	-	-	-	-	-	-	
37.3	MW-16	5/3	29.	37.4	8:06	8:08	S	3.30	7.06	1319	11.4	0%	Y
32.6	MW-17	5-3	20.6	31.9	8:23	8:25	S	4.52	6.47	1326	11.7	0%	Y

Note: Low-Flow Pump (LF), Submersible (S), Per Pump (P), Waterra (W), Dedicated Bailer (DB), Bailer (B)

MW-16 - Purge Dry - Purge 1.5 gal
 MW-17 - Purge Dry - Purge 3 gal
 MW-8 - Pumped Dry while testing
 MW-9 - could not purge, could not sample
 MW-14 - Purge Dry - only purged .5 gallon
 was able to get samples - well had a trickle

LANDFILL GROUNDWATER SAMPLING DATA SHEET

Project Information

Project Name Plymouth County Sanitary Landfill
 Project Location LeMars, IA
 Project Number PCSWA-18001
 SLF Permit No. 75-SDP-04-74P

Sampling Information

Date Sampled 10/11/2023
 Sampling Crew Kent/Brayden
 Equipment GeoTech
 Water Level Oakton
 pH/Conductivity 10/10/2023
 Equipment Calibration Date 2:30
 Equipment Calibration Time

Weather Conditions

Recorded Depth	Well#	Date	Static Water Level	Measured Well Depth	Purge Time Start	Purge Time Finish	Bailing Equipment (see note)	Purge Volume Gal	Stabilized pH	Stabilized Conductivity	Stabilized Temperature	Methane Gas	Capped Properly Y / N
32.7	MW-7	10/11/2023	27.6	32.9	8:48	8:49	P	2	7.36	1647	12	0%	Yes
27.6	MW-8	10/11/2023	24.1	27.8	9:00	N/A	P	3.7	7.27	1393	11.8	0%	Yes
25.5	MW-9	10/11/2023	24.8	25.3	N/A	N/A	N/A	0.2	N/A	N/A	N/A	0%	Yes
32.8	MW-10	10/11/2023	31.2	32.6	9:42	9:43	P	0.5	7.3	1394	11.1	0%	Yes
39	MW-11	10/11/2023	31.6	39.1	9:55	9:56	P	3	7.01	1300	11.2	0%	Yes
53.6	MW-12	10/11/2023	45.6	53.6	10:33	10:35	P	3.2	6.54	1422	13.3	0%	Yes
36.56	MW-13	10/11/2023	27.5	36.5	9:25	9:27	P	3.6	6.87	990	10.8	100%	Yes
50.16	MW-14	10/11/2023	45.7	50.9	10:07	N/A	P	2	6.62	1600	12.9	0%	Yes
37.3	MW-16	10/11/2023	31.7	37.4	8:07	N/A	P	2.25	6.99	1432	10.4	0%	Yes
32.6	MW-17	10/11/2023	21.9	31.9	8:24	N/A	P	4	7.45	827	10.3	0%	Yes

Note: Low-Flow Pump (LF), Submersible (S), Per Pump (P), Waterra (W), Dedicated Bailer (DB), Bailer (B)

MW-16 Well did not purge not enough water
 MW-17 Purged 2 gallons went dry
 MW-8 Purged 2 gallons went dry
 MW-14 Purged 1 gallon went dry

APPENDIX B

Laboratory Analytical Data

ANALYTICAL REPORT

PREPARED FOR

Attn: Kent Herbold
Plymouth Co. Solid Waste
34898 150th Street
LeMars, Iowa 51031

Generated 5/26/2023 2:23:51 PM Revision 1

JOB DESCRIPTION

Plymouth County Landfill

JOB NUMBER

310-255036-1

Eurofins Cedar Falls

Job Notes

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

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

Authorization



Authorized for release by
Meredith Liechti, Service Center Manager
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Case Narrative

Client: Plymouth Co. Solid Waste
Project/Site: Plymouth County Landfill

Job ID: 310-255036-1

Job ID: 310-255036-1

Laboratory: Eurofins Cedar Falls

Narrative

**Job Narrative
310-255036-1**

REVISION

The report being provided is a revision of the original report sent on 5/25/2023. The report (revision 1) is being revised due to Ghost samples MW-20 and MW-24 showed up on report.

Receipt

The samples were received on 5/4/2023 9:20 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 5.3°C and 5.6°C

SUBCONTRACTING

The following analysis was subcontracted to Keystone Laboratories, Inc:
9020 TOX

GC/MS VOA

Method 8260D: The continuing calibration verification (CCV) associated with batch 310-386795 recovered above the upper control limit for Vinyl chloride (30.6%D). The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 310-386795/4).

Method 8260D: Surrogate recovery for the following sample was outside the upper control limit: MW-16 (310-255036-3). This sample did not contain any target analytes; therefore, reanalysis was not performed.

Method 8260D: The continuing calibration verification (CCV) associated with batch 310-387053 recovered above the upper control limit for Vinyl chloride (21.5%D). The LCS associated with this CCV passed CCV criteria for the affected analyte; therefore, the data have been reported. The associated sample is impacted: (CCV 310-387053/4).

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

HPLC/IC

Method 9056A_ORGFM_28D: The following sample was diluted due to the nature of the sample matrix: MW-17 (310-255036-2). Elevated reporting limits (RLs) are provided.

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

Metals

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

General Chemistry

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

Subcontract Lab non-Sister Lab

See attached subcontract report.

Sample Summary

Client: Plymouth Co. Solid Waste
Project/Site: Plymouth County Landfill

Job ID: 310-255036-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
310-255036-1	Trip Blank	Water	05/03/23 00:00	05/04/23 09:20
310-255036-2	MW-17	Water	05/03/23 08:23	05/04/23 09:20
310-255036-3	MW-16	Water	05/03/23 08:06	05/04/23 09:20
310-255036-4	MW-8	Water	05/03/23 09:21	05/04/23 09:20
310-255036-5	MW-10	Water	05/03/23 10:35	05/04/23 09:20
310-255036-6	MW-12	Water	05/03/23 12:00	05/04/23 09:20
310-255036-7	MW-14	Water	05/03/23 11:35	05/04/23 09:20
310-255036-8	MW-7	Water	05/03/23 09:00	05/04/23 09:20
310-255036-9	MW-11	Water	05/03/23 11:09	05/04/23 09:20
310-255036-10	MW-13	Water	05/03/23 09:54	05/04/23 09:20

Detection Summary

Client: Plymouth Co. Solid Waste
Project/Site: Plymouth County Landfill

Job ID: 310-255036-1

Client Sample ID: Trip Blank

Lab Sample ID: 310-255036-1

No Detections.

Client Sample ID: MW-17

Lab Sample ID: 310-255036-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chemical Oxygen Demand	10.8		5.00		mg/L	1		5220D LL	Total/NA

Client Sample ID: MW-16

Lab Sample ID: 310-255036-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	6.95		5.00		mg/L	5		9056A	Total/NA
Chemical Oxygen Demand	12.1		5.00		mg/L	1		5220D LL	Total/NA

Client Sample ID: MW-8

Lab Sample ID: 310-255036-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2-Dichloropropane	1.16		1.00		ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	53.8		1.00		ug/L	1		8260D	Total/NA
Trichloroethene	1.13		1.00		ug/L	1		8260D	Total/NA
Vinyl chloride	2.16		1.00		ug/L	1		8260D	Total/NA
Chloride	12.9		5.00		mg/L	5		9056A	Total/NA
Chemical Oxygen Demand	16.5		5.00		mg/L	1		5220D LL	Total/NA

Client Sample ID: MW-10

Lab Sample ID: 310-255036-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	166		5.00		mg/L	5		9056A	Total/NA
Chemical Oxygen Demand	26.6		5.00		mg/L	1		5220D LL	Total/NA

Client Sample ID: MW-12

Lab Sample ID: 310-255036-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	1.27		0.500		ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	31.9		1.00		ug/L	1		8260D	Total/NA
Vinyl chloride	4.19		1.00		ug/L	1		8260D	Total/NA
Chloride	29.1		5.00		mg/L	5		9056A	Total/NA
Iron	10.8		0.500		mg/L	1		6010D	Dissolved
Chemical Oxygen Demand	15.5		5.00		mg/L	1		5220D LL	Total/NA

Client Sample ID: MW-14

Lab Sample ID: 310-255036-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	36.6		1.00		ug/L	1		8260D	Total/NA
Chloride	58.8		5.00		mg/L	5		9056A	Total/NA
Chemical Oxygen Demand	29.6		5.00		mg/L	1		5220D LL	Total/NA

Client Sample ID: MW-7

Lab Sample ID: 310-255036-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2-Dichloropropane	12.5		1.00		ug/L	1		8260D	Total/NA
Benzene	0.716		0.500		ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	174		1.00		ug/L	1		8260D	Total/NA
Tetrachloroethene	2.67		1.00		ug/L	1		8260D	Total/NA
Trichloroethene	7.50		1.00		ug/L	1		8260D	Total/NA
Vinyl chloride	3.11		1.00		ug/L	1		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Cedar Falls

Detection Summary

Client: Plymouth Co. Solid Waste
Project/Site: Plymouth County Landfill

Job ID: 310-255036-1

Client Sample ID: MW-11

Lab Sample ID: 310-255036-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	25.1		5.00		mg/L	5		9056A	Total/NA
Chemical Oxygen Demand	8.40		5.00		mg/L	1		5220D LL	Total/NA

Client Sample ID: MW-13

Lab Sample ID: 310-255036-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	73.0		5.00		mg/L	5		9056A	Total/NA
Iron	1.20		0.500		mg/L	1		6010D	Dissolved
Chemical Oxygen Demand	23.5		5.00		mg/L	1		5220D LL	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Cedar Falls

Client Sample Results

Client: Plymouth Co. Solid Waste
Project/Site: Plymouth County Landfill

Job ID: 310-255036-1

Client Sample ID: Trip Blank

Lab Sample ID: 310-255036-1

Date Collected: 05/03/23 00:00

Matrix: Water

Date Received: 05/04/23 09:20

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	<1.00		1.00		ug/L			05/10/23 14:39	1
Benzene	<0.500		0.500		ug/L			05/10/23 14:39	1
cis-1,2-Dichloroethene	<1.00		1.00		ug/L			05/10/23 14:39	1
Methylene Chloride	<5.00		5.00		ug/L			05/10/23 14:39	1
Tetrachloroethene	<1.00		1.00		ug/L			05/10/23 14:39	1
Trichloroethene	<1.00		1.00		ug/L			05/10/23 14:39	1
Vinyl chloride	<1.00		1.00		ug/L			05/10/23 14:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	96		80 - 128		05/10/23 14:39	1
Toluene-d8 (Surr)	101		80 - 120		05/10/23 14:39	1
4-Bromofluorobenzene (Surr)	117		80 - 120		05/10/23 14:39	1

Client Sample Results

Client: Plymouth Co. Solid Waste
Project/Site: Plymouth County Landfill

Job ID: 310-255036-1

Client Sample ID: MW-17

Lab Sample ID: 310-255036-2

Date Collected: 05/03/23 08:23

Matrix: Water

Date Received: 05/04/23 09:20

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	<1.00		1.00		ug/L			05/10/23 17:21	1
Benzene	<0.500		0.500		ug/L			05/10/23 17:21	1
cis-1,2-Dichloroethene	<1.00		1.00		ug/L			05/10/23 17:21	1
Methylene Chloride	<5.00		5.00		ug/L			05/10/23 17:21	1
Tetrachloroethene	<1.00		1.00		ug/L			05/10/23 17:21	1
Trichloroethene	<1.00		1.00		ug/L			05/10/23 17:21	1
Vinyl chloride	<1.00		1.00		ug/L			05/10/23 17:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	90		80 - 128		05/10/23 17:21	1
Toluene-d8 (Surr)	100		80 - 120		05/10/23 17:21	1
4-Bromofluorobenzene (Surr)	117		80 - 120		05/10/23 17:21	1

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00		5.00		mg/L			05/22/23 13:33	5

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.500		0.500		mg/L		05/10/23 09:10	05/11/23 13:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	<0.200	F1	0.200		mg/L			05/05/23 10:05	1
Chemical Oxygen Demand (SM 5220D LL)	10.8		5.00		mg/L			05/08/23 08:45	1
Phenols, Total (SW846 9066)	<0.0200		0.0200		mg/L		05/05/23 05:13	05/05/23 21:29	1

Client Sample Results

Client: Plymouth Co. Solid Waste
Project/Site: Plymouth County Landfill

Job ID: 310-255036-1

Client Sample ID: MW-16

Lab Sample ID: 310-255036-3

Date Collected: 05/03/23 08:06

Matrix: Water

Date Received: 05/04/23 09:20

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	<1.00		1.00		ug/L			05/10/23 17:41	1
Benzene	<0.500		0.500		ug/L			05/10/23 17:41	1
cis-1,2-Dichloroethene	<1.00		1.00		ug/L			05/10/23 17:41	1
Methylene Chloride	<5.00		5.00		ug/L			05/10/23 17:41	1
Tetrachloroethene	<1.00		1.00		ug/L			05/10/23 17:41	1
Trichloroethene	<1.00		1.00		ug/L			05/10/23 17:41	1
Vinyl chloride	<1.00		1.00		ug/L			05/10/23 17:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	90		80 - 128		05/10/23 17:41	1
Toluene-d8 (Surr)	103		80 - 120		05/10/23 17:41	1
4-Bromofluorobenzene (Surr)	121	S1+	80 - 120		05/10/23 17:41	1

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.95		5.00		mg/L			05/22/23 14:20	5

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.500		0.500		mg/L		05/10/23 09:10	05/11/23 13:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	<0.200		0.200		mg/L			05/05/23 10:07	1
Chemical Oxygen Demand (SM 5220D LL)	12.1		5.00		mg/L			05/08/23 08:45	1
Phenols, Total (SW846 9066)	<0.0200		0.0200		mg/L		05/05/23 05:13	05/05/23 21:29	1

Client Sample Results

Client: Plymouth Co. Solid Waste
Project/Site: Plymouth County Landfill

Job ID: 310-255036-1

Client Sample ID: MW-8

Lab Sample ID: 310-255036-4

Date Collected: 05/03/23 09:21

Matrix: Water

Date Received: 05/04/23 09:20

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	1.16		1.00		ug/L			05/10/23 18:02	1
Benzene	<0.500		0.500		ug/L			05/10/23 18:02	1
cis-1,2-Dichloroethene	53.8		1.00		ug/L			05/10/23 18:02	1
Methylene Chloride	<5.00		5.00		ug/L			05/10/23 18:02	1
Tetrachloroethene	<1.00		1.00		ug/L			05/10/23 18:02	1
Trichloroethene	1.13		1.00		ug/L			05/10/23 18:02	1
Vinyl chloride	2.16		1.00		ug/L			05/10/23 18:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	92		80 - 128		05/10/23 18:02	1
Toluene-d8 (Surr)	102		80 - 120		05/10/23 18:02	1
4-Bromofluorobenzene (Surr)	116		80 - 120		05/10/23 18:02	1

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	12.9		5.00		mg/L			05/22/23 14:35	5

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.500		0.500		mg/L		05/10/23 09:10	05/11/23 13:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	<0.200		0.200		mg/L			05/05/23 10:08	1
Chemical Oxygen Demand (SM 5220D LL)	16.5		5.00		mg/L			05/08/23 08:45	1
Phenols, Total (SW846 9066)	<0.0200		0.0200		mg/L		05/05/23 05:13	05/05/23 21:30	1

Client Sample Results

Client: Plymouth Co. Solid Waste
Project/Site: Plymouth County Landfill

Job ID: 310-255036-1

Client Sample ID: MW-10

Lab Sample ID: 310-255036-5

Date Collected: 05/03/23 10:35

Matrix: Water

Date Received: 05/04/23 09:20

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	<1.00		1.00		ug/L			05/10/23 18:22	1
Benzene	<0.500		0.500		ug/L			05/10/23 18:22	1
cis-1,2-Dichloroethene	<1.00		1.00		ug/L			05/10/23 18:22	1
Methylene Chloride	<5.00		5.00		ug/L			05/10/23 18:22	1
Tetrachloroethene	<1.00		1.00		ug/L			05/10/23 18:22	1
Trichloroethene	<1.00		1.00		ug/L			05/10/23 18:22	1
Vinyl chloride	<1.00		1.00		ug/L			05/10/23 18:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	89		80 - 128		05/10/23 18:22	1
Toluene-d8 (Surr)	101		80 - 120		05/10/23 18:22	1
4-Bromofluorobenzene (Surr)	118		80 - 120		05/10/23 18:22	1

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	166		5.00		mg/L			05/22/23 14:51	5

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.500		0.500		mg/L		05/10/23 09:10	05/11/23 13:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	<0.200		0.200		mg/L			05/05/23 10:09	1
Chemical Oxygen Demand (SM 5220D LL)	26.6		5.00		mg/L			05/08/23 08:45	1
Phenols, Total (SW846 9066)	<0.0200		0.0200		mg/L		05/05/23 05:13	05/05/23 21:31	1

Client Sample Results

Client: Plymouth Co. Solid Waste
Project/Site: Plymouth County Landfill

Job ID: 310-255036-1

Client Sample ID: MW-12

Lab Sample ID: 310-255036-6

Date Collected: 05/03/23 12:00

Matrix: Water

Date Received: 05/04/23 09:20

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	<1.00		1.00		ug/L			05/09/23 05:37	1
Benzene	1.27		0.500		ug/L			05/09/23 05:37	1
cis-1,2-Dichloroethene	31.9		1.00		ug/L			05/09/23 05:37	1
Methylene Chloride	<5.00		5.00		ug/L			05/09/23 05:37	1
Tetrachloroethene	<1.00		1.00		ug/L			05/09/23 05:37	1
Trichloroethene	<1.00		1.00		ug/L			05/09/23 05:37	1
Vinyl chloride	4.19		1.00		ug/L			05/15/23 12:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	90		80 - 128		05/09/23 05:37	1
Dibromofluoromethane (Surr)	109		80 - 128		05/15/23 12:03	1
Toluene-d8 (Surr)	102		80 - 120		05/09/23 05:37	1
Toluene-d8 (Surr)	102		80 - 120		05/15/23 12:03	1
4-Bromofluorobenzene (Surr)	116		80 - 120		05/09/23 05:37	1
4-Bromofluorobenzene (Surr)	99		80 - 120		05/15/23 12:03	1

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	29.1		5.00		mg/L			05/22/23 15:07	5

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	10.8		0.500		mg/L		05/10/23 09:10	05/11/23 13:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	<0.200		0.200		mg/L			05/05/23 10:12	1
Chemical Oxygen Demand (SM 5220D LL)	15.5		5.00		mg/L			05/08/23 08:45	1
Phenols, Total (SW846 9066)	<0.0220		0.0220		mg/L		05/05/23 05:13	05/05/23 21:31	1

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Client Sample Results

Client: Plymouth Co. Solid Waste
Project/Site: Plymouth County Landfill

Job ID: 310-255036-1

Client Sample ID: MW-14

Lab Sample ID: 310-255036-7

Date Collected: 05/03/23 11:35

Matrix: Water

Date Received: 05/04/23 09:20

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	<1.00		1.00		ug/L			05/09/23 05:17	1
Benzene	<0.500		0.500		ug/L			05/09/23 05:17	1
cis-1,2-Dichloroethene	36.6		1.00		ug/L			05/09/23 05:17	1
Methylene Chloride	<5.00		5.00		ug/L			05/09/23 05:17	1
Tetrachloroethene	<1.00		1.00		ug/L			05/09/23 05:17	1
Trichloroethene	<1.00		1.00		ug/L			05/09/23 05:17	1
Vinyl chloride	<1.00		1.00		ug/L			05/09/23 05:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	91		80 - 128		05/09/23 05:17	1
Toluene-d8 (Surr)	101		80 - 120		05/09/23 05:17	1
4-Bromofluorobenzene (Surr)	117		80 - 120		05/09/23 05:17	1

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	58.8		5.00		mg/L			05/22/23 15:22	5

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.500		0.500		mg/L		05/10/23 09:10	05/11/23 13:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	<0.200		0.200		mg/L			05/05/23 10:12	1
Chemical Oxygen Demand (SM 5220D LL)	29.6		5.00		mg/L			05/08/23 08:45	1
Phenols, Total (SW846 9066)	<0.0200		0.0200		mg/L		05/05/23 05:13	05/05/23 21:32	1

Client Sample Results

Client: Plymouth Co. Solid Waste
Project/Site: Plymouth County Landfill

Job ID: 310-255036-1

Client Sample ID: MW-7

Lab Sample ID: 310-255036-8

Date Collected: 05/03/23 09:00

Matrix: Water

Date Received: 05/04/23 09:20

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	12.5		1.00		ug/L			05/09/23 04:56	1
Benzene	0.716		0.500		ug/L			05/09/23 04:56	1
cis-1,2-Dichloroethene	174		1.00		ug/L			05/09/23 04:56	1
Methylene Chloride	<5.00		5.00		ug/L			05/09/23 04:56	1
Tetrachloroethene	2.67		1.00		ug/L			05/09/23 04:56	1
Trichloroethene	7.50		1.00		ug/L			05/09/23 04:56	1
Vinyl chloride	3.11		1.00		ug/L			05/15/23 12:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	89		80 - 128		05/09/23 04:56	1
Dibromofluoromethane (Surr)	110		80 - 128		05/15/23 12:25	1
Toluene-d8 (Surr)	102		80 - 120		05/09/23 04:56	1
Toluene-d8 (Surr)	103		80 - 120		05/15/23 12:25	1
4-Bromofluorobenzene (Surr)	117		80 - 120		05/09/23 04:56	1
4-Bromofluorobenzene (Surr)	99		80 - 120		05/15/23 12:25	1

Client Sample Results

Client: Plymouth Co. Solid Waste
Project/Site: Plymouth County Landfill

Job ID: 310-255036-1

Client Sample ID: MW-11

Lab Sample ID: 310-255036-9

Date Collected: 05/03/23 11:09

Matrix: Water

Date Received: 05/04/23 09:20

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	25.1		5.00		mg/L			05/22/23 16:09	5

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.500		0.500		mg/L		05/10/23 09:10	05/11/23 13:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	<0.200		0.200		mg/L			05/05/23 10:12	1
Chemical Oxygen Demand (SM 5220D LL)	8.40		5.00		mg/L			05/08/23 08:45	1
Phenols, Total (SW846 9066)	<0.0200		0.0200		mg/L		05/05/23 05:13	05/05/23 21:32	1

Client Sample Results

Client: Plymouth Co. Solid Waste
Project/Site: Plymouth County Landfill

Job ID: 310-255036-1

Client Sample ID: MW-13

Lab Sample ID: 310-255036-10

Date Collected: 05/03/23 09:54

Matrix: Water

Date Received: 05/04/23 09:20

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	73.0		5.00		mg/L			05/22/23 16:25	5

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	1.20		0.500		mg/L		05/10/23 09:10	05/11/23 13:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	<0.200		0.200		mg/L			05/05/23 10:14	1
Chemical Oxygen Demand (SM 5220D LL)	23.5		5.00		mg/L			05/08/23 08:45	1
Phenols, Total (SW846 9066)	<0.0200		0.0200		mg/L		05/05/23 05:13	05/05/23 21:33	1

Definitions/Glossary

Client: Plymouth Co. Solid Waste
Project/Site: Plymouth County Landfill

Job ID: 310-255036-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
S1+	Surrogate recovery exceeds control limits, high biased.

General Chemistry

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.

Glossary

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

Surrogate Summary

Client: Plymouth Co. Solid Waste
Project/Site: Plymouth County Landfill

Job ID: 310-255036-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		DBFM (80-128)	TOL (80-120)	BFB (80-120)
310-255036-1	Trip Blank	96	101	117
310-255036-2	MW-17	90	100	117
310-255036-2 MS	MW-17	93	101	98
310-255036-2 MSD	MW-17	97	101	102
310-255036-3	MW-16	90	103	121 S1+
310-255036-4	MW-8	92	102	116
310-255036-5	MW-10	89	101	118
310-255036-6	MW-12	90	102	116
310-255036-6	MW-12	109	102	99
310-255036-7	MW-14	91	101	117
310-255036-8	MW-7	89	102	117
310-255036-8	MW-7	110	103	99
310-255036-8 MS	MW-7	100	99	101
310-255036-8 MSD	MW-7	100	100	104
LCS 310-386795/6	Lab Control Sample	100	99	102
LCS 310-386795/7	Lab Control Sample	95	100	114
LCS 310-387053/6	Lab Control Sample	100	99	102
LCS 310-387053/7	Lab Control Sample	95	101	115
LCS 310-387479/6	Lab Control Sample	89	106	102
LCS 310-387479/7	Lab Control Sample	108	102	100
MB 310-386795/5	Method Blank	95	100	118
MB 310-387053/5	Method Blank	94	99	117
MB 310-387479/5	Method Blank	107	102	102

Surrogate Legend

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

QC Sample Results

Client: Plymouth Co. Solid Waste
Project/Site: Plymouth County Landfill

Job ID: 310-255036-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 310-386795/5

Matrix: Water

Analysis Batch: 386795

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	<1.00		1.00		ug/L			05/08/23 22:10	1
Benzene	<0.500		0.500		ug/L			05/08/23 22:10	1
cis-1,2-Dichloroethene	<1.00		1.00		ug/L			05/08/23 22:10	1
Methylene Chloride	<5.00		5.00		ug/L			05/08/23 22:10	1
Tetrachloroethene	<1.00		1.00		ug/L			05/08/23 22:10	1
Trichloroethene	<1.00		1.00		ug/L			05/08/23 22:10	1
Vinyl chloride	<1.00		1.00		ug/L			05/08/23 22:10	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	95		80 - 128		05/08/23 22:10	1
Toluene-d8 (Surr)	100		80 - 120		05/08/23 22:10	1
4-Bromofluorobenzene (Surr)	118		80 - 120		05/08/23 22:10	1

Lab Sample ID: LCS 310-386795/6

Matrix: Water

Analysis Batch: 386795

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dichloropropane	20.0	20.90		ug/L		104	73 - 121
Benzene	20.0	19.93		ug/L		100	73 - 122
cis-1,2-Dichloroethene	20.0	20.12		ug/L		101	74 - 120
Methylene Chloride	20.0	21.37		ug/L		107	50 - 150
Tetrachloroethene	20.0	20.67		ug/L		103	69 - 131
Trichloroethene	20.0	19.97		ug/L		100	73 - 126

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Dibromofluoromethane (Surr)	100		80 - 128
Toluene-d8 (Surr)	99		80 - 120
4-Bromofluorobenzene (Surr)	102		80 - 120

Lab Sample ID: LCS 310-386795/7

Matrix: Water

Analysis Batch: 386795

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Vinyl chloride	20.0	24.46		ug/L		122	57 - 136

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Dibromofluoromethane (Surr)	95		80 - 128
Toluene-d8 (Surr)	100		80 - 120
4-Bromofluorobenzene (Surr)	114		80 - 120

Lab Sample ID: 310-255036-8 MS

Matrix: Water

Analysis Batch: 386795

Client Sample ID: MW-7

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dichloropropane	12.5		25.0	34.59		ug/L		88	60 - 130

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QC Sample Results

Client: Plymouth Co. Solid Waste
Project/Site: Plymouth County Landfill

Job ID: 310-255036-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 310-255036-8 MS

Matrix: Water

Analysis Batch: 386795

Client Sample ID: MW-7

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.716		25.0	21.78		ug/L		84	47 - 130
cis-1,2-Dichloroethene	174		25.0	183.1	4	ug/L		35	52 - 130
Methylene Chloride	<5.00		25.0	22.87		ug/L		91	50 - 150
Tetrachloroethene	2.67		25.0	23.34		ug/L		83	42 - 131
Trichloroethene	7.50		25.0	27.49		ug/L		80	55 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
Dibromofluoromethane (Surr)	100		80 - 128
Toluene-d8 (Surr)	99		80 - 120
4-Bromofluorobenzene (Surr)	101		80 - 120

Lab Sample ID: 310-255036-8 MSD

Matrix: Water

Analysis Batch: 386795

Client Sample ID: MW-7

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2-Dichloropropane	12.5		25.0	33.59		ug/L		84	60 - 130	3	31
Benzene	0.716		25.0	20.62		ug/L		80	47 - 130	5	20
cis-1,2-Dichloroethene	174		25.0	174.8	4	ug/L		2	52 - 130	5	20
Methylene Chloride	<5.00		25.0	22.36		ug/L		89	50 - 150	2	24
Tetrachloroethene	2.67		25.0	22.17		ug/L		78	42 - 131	5	20
Trichloroethene	7.50		25.0	25.74		ug/L		73	55 - 130	7	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Dibromofluoromethane (Surr)	100		80 - 128
Toluene-d8 (Surr)	100		80 - 120
4-Bromofluorobenzene (Surr)	104		80 - 120

Lab Sample ID: MB 310-387053/5

Matrix: Water

Analysis Batch: 387053

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	<1.00		1.00		ug/L			05/10/23 13:38	1
Benzene	<0.500		0.500		ug/L			05/10/23 13:38	1
cis-1,2-Dichloroethene	<1.00		1.00		ug/L			05/10/23 13:38	1
Methylene Chloride	<5.00		5.00		ug/L			05/10/23 13:38	1
Tetrachloroethene	<1.00		1.00		ug/L			05/10/23 13:38	1
Trichloroethene	<1.00		1.00		ug/L			05/10/23 13:38	1
Vinyl chloride	<1.00		1.00		ug/L			05/10/23 13:38	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	94		80 - 128		05/10/23 13:38	1
Toluene-d8 (Surr)	99		80 - 120		05/10/23 13:38	1
4-Bromofluorobenzene (Surr)	117		80 - 120		05/10/23 13:38	1

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QC Sample Results

Client: Plymouth Co. Solid Waste
Project/Site: Plymouth County Landfill

Job ID: 310-255036-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 310-387053/6

Matrix: Water

Analysis Batch: 387053

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dichloropropane	20.0	19.51		ug/L		98	73 - 121
Benzene	20.0	18.38		ug/L		92	73 - 122
cis-1,2-Dichloroethene	20.0	18.22		ug/L		91	74 - 120
Methylene Chloride	20.0	19.69		ug/L		98	50 - 150
Tetrachloroethene	20.0	19.24		ug/L		96	69 - 131
Trichloroethene	20.0	17.64		ug/L		88	73 - 126

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Dibromofluoromethane (Surr)	100		80 - 128
Toluene-d8 (Surr)	99		80 - 120
4-Bromofluorobenzene (Surr)	102		80 - 120

Lab Sample ID: LCS 310-387053/7

Matrix: Water

Analysis Batch: 387053

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Vinyl chloride	20.0	23.94		ug/L		120	57 - 136

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Dibromofluoromethane (Surr)	95		80 - 128
Toluene-d8 (Surr)	101		80 - 120
4-Bromofluorobenzene (Surr)	115		80 - 120

Lab Sample ID: 310-255036-2 MS

Matrix: Water

Analysis Batch: 387053

Client Sample ID: MW-17

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dichloropropane	<1.00		25.0	21.29		ug/L		85	60 - 130
Benzene	<0.500		25.0	19.70		ug/L		79	47 - 130
cis-1,2-Dichloroethene	<1.00		25.0	19.95		ug/L		80	52 - 130
Methylene Chloride	<5.00		25.0	22.28		ug/L		89	50 - 150
Tetrachloroethene	<1.00		25.0	19.15		ug/L		77	42 - 131
Trichloroethene	<1.00		25.0	18.84		ug/L		75	55 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
Dibromofluoromethane (Surr)	93		80 - 128
Toluene-d8 (Surr)	101		80 - 120
4-Bromofluorobenzene (Surr)	98		80 - 120

Lab Sample ID: 310-255036-2 MSD

Matrix: Water

Analysis Batch: 387053

Client Sample ID: MW-17

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
1,2-Dichloropropane	<1.00		25.0	20.21		ug/L		81	60 - 130	5	31
Benzene	<0.500		25.0	18.45		ug/L		74	47 - 130	7	20

Eurofins Cedar Falls

QC Sample Results

Client: Plymouth Co. Solid Waste
Project/Site: Plymouth County Landfill

Job ID: 310-255036-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 310-255036-2 MSD

Matrix: Water

Analysis Batch: 387053

Client Sample ID: MW-17

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
cis-1,2-Dichloroethene	<1.00		25.0	18.24		ug/L		73	52 - 130	9	20
Methylene Chloride	<5.00		25.0	20.15		ug/L		81	50 - 150	10	24
Tetrachloroethene	<1.00		25.0	17.72		ug/L		71	42 - 131	8	20
Trichloroethene	<1.00		25.0	17.30		ug/L		69	55 - 130	9	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Dibromofluoromethane (Surr)	97		80 - 128
Toluene-d8 (Surr)	101		80 - 120
4-Bromofluorobenzene (Surr)	102		80 - 120

Lab Sample ID: MB 310-387479/5

Matrix: Water

Analysis Batch: 387479

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	<1.00		1.00		ug/L			05/15/23 10:17	1
Benzene	<0.500		0.500		ug/L			05/15/23 10:17	1
cis-1,2-Dichloroethene	<1.00		1.00		ug/L			05/15/23 10:17	1
Methylene Chloride	<5.00		5.00		ug/L			05/15/23 10:17	1
Tetrachloroethene	<1.00		1.00		ug/L			05/15/23 10:17	1
Trichloroethene	<1.00		1.00		ug/L			05/15/23 10:17	1
Vinyl chloride	<1.00		1.00		ug/L			05/15/23 10:17	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	107		80 - 128		05/15/23 10:17	1
Toluene-d8 (Surr)	102		80 - 120		05/15/23 10:17	1
4-Bromofluorobenzene (Surr)	102		80 - 120		05/15/23 10:17	1

Lab Sample ID: LCS 310-387479/6

Matrix: Water

Analysis Batch: 387479

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dichloropropane	20.0	20.72		ug/L		104	73 - 121
Benzene	20.0	19.65		ug/L		98	73 - 122
cis-1,2-Dichloroethene	20.0	17.88		ug/L		89	74 - 120
Methylene Chloride	20.0	20.21		ug/L		101	50 - 150
Tetrachloroethene	20.0	18.57		ug/L		93	69 - 131
Trichloroethene	20.0	20.76		ug/L		104	73 - 126

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Dibromofluoromethane (Surr)	89		80 - 128
Toluene-d8 (Surr)	106		80 - 120
4-Bromofluorobenzene (Surr)	102		80 - 120

Eurofins Cedar Falls

QC Sample Results

Client: Plymouth Co. Solid Waste
Project/Site: Plymouth County Landfill

Job ID: 310-255036-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 310-387479/7

Matrix: Water

Analysis Batch: 387479

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Vinyl chloride	20.0	22.35		ug/L		112	57 - 136
Surrogate	%Recovery	LCS Qualifier	Limits				
Dibromofluoromethane (Surr)	108		80 - 128				
Toluene-d8 (Surr)	102		80 - 120				
4-Bromofluorobenzene (Surr)	100		80 - 120				

Method: 9056A - Anions, Ion Chromatography

Lab Sample ID: MB 310-388659/4

Matrix: Water

Analysis Batch: 388659

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<1.00		1.00		mg/L			05/22/23 13:02	1

Lab Sample ID: LCS 310-388659/5

Matrix: Water

Analysis Batch: 388659

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	10.0	9.409		mg/L		94	90 - 110

Lab Sample ID: 310-255036-2 MS

Matrix: Water

Analysis Batch: 388659

Client Sample ID: MW-17

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	<5.00		25.0	25.50		mg/L		90	80 - 120

Lab Sample ID: 310-255036-2 MSD

Matrix: Water

Analysis Batch: 388659

Client Sample ID: MW-17

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	<5.00		25.0	25.36		mg/L		90	80 - 120	1	15

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 310-386958/1-A

Matrix: Water

Analysis Batch: 387241

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 386958

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.500		0.500		mg/L		05/10/23 09:10	05/11/23 12:42	1

Eurofins Cedar Falls

QC Sample Results

Client: Plymouth Co. Solid Waste
Project/Site: Plymouth County Landfill

Job ID: 310-255036-1

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: LCS 310-386958/2-A
Matrix: Water
Analysis Batch: 387241

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 386958

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	2.00	2.127		mg/L		106	80 - 120

Lab Sample ID: 310-255036-10 DU
Matrix: Water
Analysis Batch: 387241

Client Sample ID: MW-13
Prep Type: Dissolved
Prep Batch: 386958

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Iron	1.20		1.217		mg/L		1	20

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 310-386556/49
Matrix: Water
Analysis Batch: 386556

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	<0.200		0.200		mg/L			05/05/23 10:03	1

Lab Sample ID: LCS 310-386556/50
Matrix: Water
Analysis Batch: 386556

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	7.80	7.764		mg/L		100	90 - 110

Lab Sample ID: 310-255036-2 MS
Matrix: Water
Analysis Batch: 386556

Client Sample ID: MW-17
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	<0.200	F1	0.200	<0.200	F1	mg/L		78	90 - 110

Lab Sample ID: 310-255036-2 MSD
Matrix: Water
Analysis Batch: 386556

Client Sample ID: MW-17
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Ammonia	<0.200	F1	0.200	<0.200	F1	mg/L		0	90 - 110	NC	10

Method: 5220D LL - COD

Lab Sample ID: MB 310-386728/32
Matrix: Water
Analysis Batch: 386728

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	<5.00		5.00		mg/L			05/08/23 08:45	1

Eurofins Cedar Falls

QC Sample Results

Client: Plymouth Co. Solid Waste
Project/Site: Plymouth County Landfill

Job ID: 310-255036-1

Method: 5220D LL - COD (Continued)

Lab Sample ID: MB 310-386728/5

Matrix: Water

Analysis Batch: 386728

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	<5.00		5.00		mg/L			05/08/23 08:45	1

Lab Sample ID: MB 310-386728/60

Matrix: Water

Analysis Batch: 386728

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	<5.00		5.00		mg/L			05/08/23 08:45	1

Lab Sample ID: LCS 310-386728/3

Matrix: Water

Analysis Batch: 386728

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chemical Oxygen Demand	125	126.2		mg/L		101	85 - 115

Lab Sample ID: LCS 310-386728/33

Matrix: Water

Analysis Batch: 386728

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chemical Oxygen Demand	125	124.5		mg/L		99	85 - 115

Lab Sample ID: LCS 310-386728/63

Matrix: Water

Analysis Batch: 386728

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chemical Oxygen Demand	125	124.5		mg/L		99	85 - 115

Method: 9066 - Phenolics, Total Recoverable

Lab Sample ID: MB 310-386492/1-A

Matrix: Water

Analysis Batch: 386651

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 386492

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenols, Total	<0.0200		0.0200		mg/L		05/05/23 05:13	05/05/23 21:27	1

Lab Sample ID: LCS 310-386492/2-A

Matrix: Water

Analysis Batch: 386651

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 386492

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Phenols, Total	0.100	0.09430		mg/L		94	90 - 110

Eurofins Cedar Falls

QC Association Summary

Client: Plymouth Co. Solid Waste
Project/Site: Plymouth County Landfill

Job ID: 310-255036-1

GC/MS VOA

Analysis Batch: 386795

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-255036-6	MW-12	Total/NA	Water	8260D	
310-255036-7	MW-14	Total/NA	Water	8260D	
310-255036-8	MW-7	Total/NA	Water	8260D	
MB 310-386795/5	Method Blank	Total/NA	Water	8260D	
LCS 310-386795/6	Lab Control Sample	Total/NA	Water	8260D	
LCS 310-386795/7	Lab Control Sample	Total/NA	Water	8260D	
310-255036-8 MS	MW-7	Total/NA	Water	8260D	
310-255036-8 MSD	MW-7	Total/NA	Water	8260D	

Analysis Batch: 387053

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-255036-1	Trip Blank	Total/NA	Water	8260D	
310-255036-2	MW-17	Total/NA	Water	8260D	
310-255036-3	MW-16	Total/NA	Water	8260D	
310-255036-4	MW-8	Total/NA	Water	8260D	
310-255036-5	MW-10	Total/NA	Water	8260D	
MB 310-387053/5	Method Blank	Total/NA	Water	8260D	
LCS 310-387053/6	Lab Control Sample	Total/NA	Water	8260D	
LCS 310-387053/7	Lab Control Sample	Total/NA	Water	8260D	
310-255036-2 MS	MW-17	Total/NA	Water	8260D	
310-255036-2 MSD	MW-17	Total/NA	Water	8260D	

Analysis Batch: 387479

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-255036-6	MW-12	Total/NA	Water	8260D	
310-255036-8	MW-7	Total/NA	Water	8260D	
MB 310-387479/5	Method Blank	Total/NA	Water	8260D	
LCS 310-387479/6	Lab Control Sample	Total/NA	Water	8260D	
LCS 310-387479/7	Lab Control Sample	Total/NA	Water	8260D	

HPLC/IC

Analysis Batch: 388659

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-255036-2	MW-17	Total/NA	Water	9056A	
310-255036-3	MW-16	Total/NA	Water	9056A	
310-255036-4	MW-8	Total/NA	Water	9056A	
310-255036-5	MW-10	Total/NA	Water	9056A	
310-255036-6	MW-12	Total/NA	Water	9056A	
310-255036-7	MW-14	Total/NA	Water	9056A	
310-255036-9	MW-11	Total/NA	Water	9056A	
310-255036-10	MW-13	Total/NA	Water	9056A	
MB 310-388659/4	Method Blank	Total/NA	Water	9056A	
LCS 310-388659/5	Lab Control Sample	Total/NA	Water	9056A	
310-255036-2 MS	MW-17	Total/NA	Water	9056A	
310-255036-2 MSD	MW-17	Total/NA	Water	9056A	

Metals

Prep Batch: 386958

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-255036-2	MW-17	Dissolved	Water	3005A	

Eurofins Cedar Falls

QC Association Summary

Client: Plymouth Co. Solid Waste
Project/Site: Plymouth County Landfill

Job ID: 310-255036-1

Metals (Continued)

Prep Batch: 386958 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-255036-3	MW-16	Dissolved	Water	3005A	
310-255036-4	MW-8	Dissolved	Water	3005A	
310-255036-5	MW-10	Dissolved	Water	3005A	
310-255036-6	MW-12	Dissolved	Water	3005A	
310-255036-7	MW-14	Dissolved	Water	3005A	
310-255036-9	MW-11	Dissolved	Water	3005A	
310-255036-10	MW-13	Dissolved	Water	3005A	
MB 310-386958/1-A	Method Blank	Total/NA	Water	3005A	
LCS 310-386958/2-A	Lab Control Sample	Total/NA	Water	3005A	
310-255036-10 DU	MW-13	Dissolved	Water	3005A	

Analysis Batch: 387241

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-255036-2	MW-17	Dissolved	Water	6010D	386958
310-255036-3	MW-16	Dissolved	Water	6010D	386958
310-255036-4	MW-8	Dissolved	Water	6010D	386958
310-255036-5	MW-10	Dissolved	Water	6010D	386958
310-255036-6	MW-12	Dissolved	Water	6010D	386958
310-255036-7	MW-14	Dissolved	Water	6010D	386958
310-255036-9	MW-11	Dissolved	Water	6010D	386958
310-255036-10	MW-13	Dissolved	Water	6010D	386958
MB 310-386958/1-A	Method Blank	Total/NA	Water	6010D	386958
LCS 310-386958/2-A	Lab Control Sample	Total/NA	Water	6010D	386958
310-255036-10 DU	MW-13	Dissolved	Water	6010D	386958

General Chemistry

Prep Batch: 386492

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-255036-2	MW-17	Total/NA	Water	Distill/Phenol	
310-255036-3	MW-16	Total/NA	Water	Distill/Phenol	
310-255036-4	MW-8	Total/NA	Water	Distill/Phenol	
310-255036-5	MW-10	Total/NA	Water	Distill/Phenol	
310-255036-6	MW-12	Total/NA	Water	Distill/Phenol	
310-255036-7	MW-14	Total/NA	Water	Distill/Phenol	
310-255036-9	MW-11	Total/NA	Water	Distill/Phenol	
310-255036-10	MW-13	Total/NA	Water	Distill/Phenol	
MB 310-386492/1-A	Method Blank	Total/NA	Water	Distill/Phenol	
LCS 310-386492/2-A	Lab Control Sample	Total/NA	Water	Distill/Phenol	

Analysis Batch: 386556

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-255036-2	MW-17	Total/NA	Water	350.1	
310-255036-3	MW-16	Total/NA	Water	350.1	
310-255036-4	MW-8	Total/NA	Water	350.1	
310-255036-5	MW-10	Total/NA	Water	350.1	
310-255036-6	MW-12	Total/NA	Water	350.1	
310-255036-7	MW-14	Total/NA	Water	350.1	
310-255036-9	MW-11	Total/NA	Water	350.1	
310-255036-10	MW-13	Total/NA	Water	350.1	
MB 310-386556/49	Method Blank	Total/NA	Water	350.1	

Eurofins Cedar Falls

QC Association Summary

Client: Plymouth Co. Solid Waste
Project/Site: Plymouth County Landfill

Job ID: 310-255036-1

General Chemistry (Continued)

Analysis Batch: 386556 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 310-386556/50	Lab Control Sample	Total/NA	Water	350.1	
310-255036-2 MS	MW-17	Total/NA	Water	350.1	
310-255036-2 MSD	MW-17	Total/NA	Water	350.1	

Analysis Batch: 386651

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-255036-2	MW-17	Total/NA	Water	9066	386492
310-255036-3	MW-16	Total/NA	Water	9066	386492
310-255036-4	MW-8	Total/NA	Water	9066	386492
310-255036-5	MW-10	Total/NA	Water	9066	386492
310-255036-6	MW-12	Total/NA	Water	9066	386492
310-255036-7	MW-14	Total/NA	Water	9066	386492
310-255036-9	MW-11	Total/NA	Water	9066	386492
310-255036-10	MW-13	Total/NA	Water	9066	386492
MB 310-386492/1-A	Method Blank	Total/NA	Water	9066	386492
LCS 310-386492/2-A	Lab Control Sample	Total/NA	Water	9066	386492

Analysis Batch: 386728

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-255036-2	MW-17	Total/NA	Water	5220D LL	
310-255036-3	MW-16	Total/NA	Water	5220D LL	
310-255036-4	MW-8	Total/NA	Water	5220D LL	
310-255036-5	MW-10	Total/NA	Water	5220D LL	
310-255036-6	MW-12	Total/NA	Water	5220D LL	
310-255036-7	MW-14	Total/NA	Water	5220D LL	
310-255036-9	MW-11	Total/NA	Water	5220D LL	
310-255036-10	MW-13	Total/NA	Water	5220D LL	
MB 310-386728/32	Method Blank	Total/NA	Water	5220D LL	
MB 310-386728/5	Method Blank	Total/NA	Water	5220D LL	
MB 310-386728/60	Method Blank	Total/NA	Water	5220D LL	
LCS 310-386728/3	Lab Control Sample	Total/NA	Water	5220D LL	
LCS 310-386728/33	Lab Control Sample	Total/NA	Water	5220D LL	
LCS 310-386728/63	Lab Control Sample	Total/NA	Water	5220D LL	

Lab Chronicle

Client: Plymouth Co. Solid Waste
Project/Site: Plymouth County Landfill

Job ID: 310-255036-1

Client Sample ID: Trip Blank

Lab Sample ID: 310-255036-1

Date Collected: 05/03/23 00:00

Matrix: Water

Date Received: 05/04/23 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	387053	WSE8	EET CF	05/10/23 14:39

Client Sample ID: MW-17

Lab Sample ID: 310-255036-2

Date Collected: 05/03/23 08:23

Matrix: Water

Date Received: 05/04/23 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	387053	WSE8	EET CF	05/10/23 17:21
Total/NA	Analysis	9056A		5	388659	QTZ5	EET CF	05/22/23 13:33
Dissolved	Prep	3005A			386958	DHM5	EET CF	05/10/23 09:10
Dissolved	Analysis	6010D		1	387241	A6US	EET CF	05/11/23 13:28
Total/NA	Analysis	350.1		1	386556	WZC8	EET CF	05/05/23 10:05
Total/NA	Analysis	5220D LL		1	386728	D7CP	EET CF	05/08/23 08:45
Total/NA	Prep	Distill/Phenol			386492	WZC8	EET CF	05/05/23 05:13
Total/NA	Analysis	9066		1	386651	ZJX4	EET CF	05/05/23 21:29

Client Sample ID: MW-16

Lab Sample ID: 310-255036-3

Date Collected: 05/03/23 08:06

Matrix: Water

Date Received: 05/04/23 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	387053	WSE8	EET CF	05/10/23 17:41
Total/NA	Analysis	9056A		5	388659	QTZ5	EET CF	05/22/23 14:20
Dissolved	Prep	3005A			386958	DHM5	EET CF	05/10/23 09:10
Dissolved	Analysis	6010D		1	387241	A6US	EET CF	05/11/23 13:30
Total/NA	Analysis	350.1		1	386556	WZC8	EET CF	05/05/23 10:07
Total/NA	Analysis	5220D LL		1	386728	D7CP	EET CF	05/08/23 08:45
Total/NA	Prep	Distill/Phenol			386492	WZC8	EET CF	05/05/23 05:13
Total/NA	Analysis	9066		1	386651	ZJX4	EET CF	05/05/23 21:29

Client Sample ID: MW-8

Lab Sample ID: 310-255036-4

Date Collected: 05/03/23 09:21

Matrix: Water

Date Received: 05/04/23 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	387053	WSE8	EET CF	05/10/23 18:02
Total/NA	Analysis	9056A		5	388659	QTZ5	EET CF	05/22/23 14:35
Dissolved	Prep	3005A			386958	DHM5	EET CF	05/10/23 09:10
Dissolved	Analysis	6010D		1	387241	A6US	EET CF	05/11/23 13:32
Total/NA	Analysis	350.1		1	386556	WZC8	EET CF	05/05/23 10:08
Total/NA	Analysis	5220D LL		1	386728	D7CP	EET CF	05/08/23 08:45
Total/NA	Prep	Distill/Phenol			386492	WZC8	EET CF	05/05/23 05:13
Total/NA	Analysis	9066		1	386651	ZJX4	EET CF	05/05/23 21:30

Eurofins Cedar Falls

Lab Chronicle

Client: Plymouth Co. Solid Waste
Project/Site: Plymouth County Landfill

Job ID: 310-255036-1

Client Sample ID: MW-10

Date Collected: 05/03/23 10:35

Date Received: 05/04/23 09:20

Lab Sample ID: 310-255036-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	387053	WSE8	EET CF	05/10/23 18:22
Total/NA	Analysis	9056A		5	388659	QTZ5	EET CF	05/22/23 14:51
Dissolved	Prep	3005A			386958	DHM5	EET CF	05/10/23 09:10
Dissolved	Analysis	6010D		1	387241	A6US	EET CF	05/11/23 13:34
Total/NA	Analysis	350.1		1	386556	WZC8	EET CF	05/05/23 10:09
Total/NA	Analysis	5220D LL		1	386728	D7CP	EET CF	05/08/23 08:45
Total/NA	Prep	Distill/Phenol			386492	WZC8	EET CF	05/05/23 05:13
Total/NA	Analysis	9066		1	386651	ZJX4	EET CF	05/05/23 21:31

Client Sample ID: MW-12

Date Collected: 05/03/23 12:00

Date Received: 05/04/23 09:20

Lab Sample ID: 310-255036-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	387479	WSE8	EET CF	05/15/23 12:03
Total/NA	Analysis	8260D		1	386795	WSE8	EET CF	05/09/23 05:37
Total/NA	Analysis	9056A		5	388659	QTZ5	EET CF	05/22/23 15:07
Dissolved	Prep	3005A			386958	DHM5	EET CF	05/10/23 09:10
Dissolved	Analysis	6010D		1	387241	A6US	EET CF	05/11/23 13:36
Total/NA	Analysis	350.1		1	386556	WZC8	EET CF	05/05/23 10:12
Total/NA	Analysis	5220D LL		1	386728	D7CP	EET CF	05/08/23 08:45
Total/NA	Prep	Distill/Phenol			386492	WZC8	EET CF	05/05/23 05:13
Total/NA	Analysis	9066		1	386651	ZJX4	EET CF	05/05/23 21:31

Client Sample ID: MW-14

Date Collected: 05/03/23 11:35

Date Received: 05/04/23 09:20

Lab Sample ID: 310-255036-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	386795	WSE8	EET CF	05/09/23 05:17
Total/NA	Analysis	9056A		5	388659	QTZ5	EET CF	05/22/23 15:22
Dissolved	Prep	3005A			386958	DHM5	EET CF	05/10/23 09:10
Dissolved	Analysis	6010D		1	387241	A6US	EET CF	05/11/23 13:38
Total/NA	Analysis	350.1		1	386556	WZC8	EET CF	05/05/23 10:12
Total/NA	Analysis	5220D LL		1	386728	D7CP	EET CF	05/08/23 08:45
Total/NA	Prep	Distill/Phenol			386492	WZC8	EET CF	05/05/23 05:13
Total/NA	Analysis	9066		1	386651	ZJX4	EET CF	05/05/23 21:32

Client Sample ID: MW-7

Date Collected: 05/03/23 09:00

Date Received: 05/04/23 09:20

Lab Sample ID: 310-255036-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	387479	WSE8	EET CF	05/15/23 12:25

Eurofins Cedar Falls

Lab Chronicle

Client: Plymouth Co. Solid Waste
Project/Site: Plymouth County Landfill

Job ID: 310-255036-1

Client Sample ID: MW-7

Date Collected: 05/03/23 09:00

Date Received: 05/04/23 09:20

Lab Sample ID: 310-255036-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	386795	WSE8	EET CF	05/09/23 04:56

Client Sample ID: MW-11

Date Collected: 05/03/23 11:09

Date Received: 05/04/23 09:20

Lab Sample ID: 310-255036-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	388659	QTZ5	EET CF	05/22/23 16:09
Dissolved	Prep	3005A			386958	DHM5	EET CF	05/10/23 09:10
Dissolved	Analysis	6010D		1	387241	A6US	EET CF	05/11/23 13:40
Total/NA	Analysis	350.1		1	386556	WZC8	EET CF	05/05/23 10:12
Total/NA	Analysis	5220D LL		1	386728	D7CP	EET CF	05/08/23 08:45
Total/NA	Prep	Distill/Phenol			386492	WZC8	EET CF	05/05/23 05:13
Total/NA	Analysis	9066		1	386651	ZJX4	EET CF	05/05/23 21:32

Client Sample ID: MW-13

Date Collected: 05/03/23 09:54

Date Received: 05/04/23 09:20

Lab Sample ID: 310-255036-10

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	388659	QTZ5	EET CF	05/22/23 16:25
Dissolved	Prep	3005A			386958	DHM5	EET CF	05/10/23 09:10
Dissolved	Analysis	6010D		1	387241	A6US	EET CF	05/11/23 13:42
Total/NA	Analysis	350.1		1	386556	WZC8	EET CF	05/05/23 10:14
Total/NA	Analysis	5220D LL		1	386728	D7CP	EET CF	05/08/23 08:45
Total/NA	Prep	Distill/Phenol			386492	WZC8	EET CF	05/05/23 05:13
Total/NA	Analysis	9066		1	386651	ZJX4	EET CF	05/05/23 21:33

Laboratory References:

EET CF = Eurofins Cedar Falls, 3019 Venture Way, Cedar Falls, IA 50613, TEL (319)277-2401

SC0005 = Keystone Laboratories, Inc, 600 East 17th Street South, Newton, IA 50208

Accreditation/Certification Summary

Client: Plymouth Co. Solid Waste
Project/Site: Plymouth County Landfill

Job ID: 310-255036-1

Laboratory: Eurofins Cedar Falls

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Iowa	State	007	12-01-23

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

Method Summary

Client: Plymouth Co. Solid Waste
Project/Site: Plymouth County Landfill

Job ID: 310-255036-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET CF
9056A	Anions, Ion Chromatography	SW846	EET CF
6010D	Metals (ICP)	SW846	EET CF
350.1	Nitrogen, Ammonia	EPA	EET CF
5220D LL	COD	SM	EET CF
9066	Phenolics, Total Recoverable	SW846	EET CF
9020	SW846 9020 Total Organic Halides	SW846	SC0005
3005A	Preparation, Total Metals	SW846	EET CF
5030B	Purge and Trap	SW846	EET CF
Distill/Phenol	Distillation, Phenolics	None	EET CF

Protocol References:

EPA = US Environmental Protection Agency

None = None

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CF = Eurofins Cedar Falls, 3019 Venture Way, Cedar Falls, IA 50613, TEL (319)277-2401

SC0005 = Keystone Laboratories, Inc, 600 East 17th Street South, Newton, IA 50208



Environment Testing
America



310-255036 Chain of Custody

Cooler/Sample Receipt and Temperature Log Form

Client Information			
Client: <u>Plymouth Co Solid Waste</u>			
City/State:	<u>LEMA</u>	STATE: <u>IA</u>	Project:
Receipt Information			
Date/Time Received:	DATE: <u>5/4/23</u>	TIME: <u>0920</u>	Received By: <u>J</u>
Delivery Type: ☐ UPS ☒ FedEx ☐ FedEx Ground ☐ US Mail ☐ Spee-Dee ☐ Lab Courier ☐ Lab Field Services ☐ Client Drop-off ☐ Other: _____			
Condition of Cooler/Containers			
Sample(s) received in Cooler?		☒ Yes ☐ No	If yes: Cooler ID: _____
Multiple Coolers?		☒ Yes ☐ No	If yes: Cooler # <u>1</u> of <u>2</u>
Cooler Custody Seals Present?		☒ Yes ☐ No	If yes: Cooler custody seals intact? ☒ Yes ☐ No
Sample Custody Seals Present?		☐ Yes ☒ No	If yes: Sample custody seals intact? ☐ Yes ☐ No
Trip Blank Present?		☐ Yes ☒ No	If yes: Which VOA samples are in cooler? ↓
Temperature Record			
Coolant: ☒ Wet ice ☐ Blue ice ☐ Dry ice ☐ Other: _____ ☐ NONE			
Thermometer ID: <u>P</u>		Correction Factor (°C): <u>102</u>	
• Temp Blank Temperature -- If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature			
Uncorrected Temp (°C): <u>5.4</u>		Corrected Temp (°C): <u>5.6</u>	
• Sample Container Temperature			
Container(s) used:	<u>CONTAINER 1</u>		<u>CONTAINER 2</u>
Uncorrected Temp (°C):			
Corrected Temp (°C):			
Exceptions Noted			
1) If temperature exceeds criteria, was sample(s) received same day of sampling? ☐ Yes ☐ No a) If yes: Is there evidence that the chilling process began? ☐ Yes ☐ No			
2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) ☐ Yes ☐ No			
NOTE: If yes, contact PM before proceeding. If no, proceed with login			
Additional Comments			



Environment Testing
America

Place COC scanning label
here

Cooler/Sample Receipt and Temperature Log Form

Client Information			
Client: <u>Plymouth Co Solid Waste</u>			
City/State:	CITY <u>Lebanon</u>	STATE <u>IA</u>	Project:
Receipt Information			
Date/Time Received:	DATE <u>5/4/23</u>	TIME <u>0920</u>	Received By: <u>J</u>
Delivery Type: ☐ UPS ☒ FedEx ☐ FedEx Ground ☐ US Mail ☐ Spee-Dee ☐ Lab Courier ☐ Lab Field Services ☐ Client Drop-off ☐ Other: _____			
Condition of Cooler/Containers			
Sample(s) received in Cooler?		☒ Yes ☐ No	If yes: Cooler ID: _____
Multiple Coolers?		☒ Yes ☐ No	If yes: Cooler # <u>2</u> of <u>2</u>
Cooler Custody Seals Present?		☒ Yes ☐ No	If yes: Cooler custody seals intact? ☒ Yes ☐ No
Sample Custody Seals Present?		☐ Yes ☒ No	If yes: Sample custody seals intact? ☐ Yes ☐ No
Trip Blank Present?		☒ Yes ☐ No	If yes: Which VOA samples are in cooler? ↓
<u>TBI, MW17, MW13 MW8, MW16</u>			
Temperature Record			
Coolant: ☒ Wet ice ☐ Blue ice ☐ Dry ice ☐ Other: _____ ☐ NONE			
Thermometer ID: <u>P</u>		Correction Factor (°C): <u>0.2</u>	
• Temp Blank Temperature – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature			
Uncorrected Temp (°C): <u>51</u>		Corrected Temp (°C): <u>53</u>	
• Sample Container Temperature			
Container(s) used:	CONTAINER 1		CONTAINER 2
Uncorrected Temp (°C):			
Corrected Temp (°C):			
Exceptions Noted			
1) If temperature exceeds criteria, was sample(s) received same day of sampling? ☐ Yes ☐ No a) If yes: Is there evidence that the chilling process began? ☐ Yes ☐ No			
2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) ☐ Yes ☐ No			
NOTE: If yes, contact PM before proceeding If no, proceed with login			
Additional Comments			

Chain of Custody Record

Estimote Des Moines SC
214

Environment Testing

Client Information		Sampler: Kent Herbold		Lab PM: Liechti, Meredith L	Carrier Tracking No(s): 310-81162-22597 1									
Client Contact: Kent Herbold		Phone: 712-260-2395	E-Mail: meredith.liechti@eurofins.com	State of Origin:	Page: Page 1 of 1									
Company: Plymouth Co Solid Waste		PWSID:		Job #:										
Address: 34898 150th Street		Due Date Requested:												
City: LeMars		TAT Requested (days):												
State, Zip: IA, 51031		Compliance Project: ☐ Yes ☐ No												
Phone: 712-260-2395		Purchase Order not required												
Email: kherbold@co.plymouth.ia.us		PO #:												
Project Name: Plymouth County Landfill (May)		WO #:												
Site: Landfill		Project #:												
		SSOW#:												
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Water, Sewage, Overstabilized, etc.)	Field Filtered Sample (Yes or No)	Reform MS/MSB (Yes or No)	8260D - (MOD) Volatile Custom Sublist	360.1, 6220D, LL	9056A_ORGFM_28D - Chloride	6010C - Dissolved Iron	9056 - Total Recoverable Phenolics	8020B - Local Method	Total Number of Containers	Special Instructions/Note:
TRIP BLANK				Water										
MW-17	5/3	8:23	G	Water										
MW-16	5/3	8:06	G	Water										
MW-8	5/3	9:21	G	Water										
MW-10	5/3	10:35	G	Water										
MW-12	5/3	12:00	G	Water										
MW-14	5/3	11:35	G	Water										
MW-7	5/3	9:00	G	Water										
MW-9				Water										
MW-11	5/3	11:01	G	Water										
MW-13	5/3	9:54	G	Water										
Possible Hazard Identification														
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological														
Deliverable Requested I, II, III, IV, Other (specify)														
Empty Kit Relinquished by														
Relinquished by														
Relinquished by														
Relinquished by														
Custody Seals Intact: ☐ Yes ☐ No														
Custody Seal No.														

LANDFILL GROUNDWATER SAMPLING DATA SHEET

Project Information

Project Name Plymouth County Sanitary Landfill
 Project Location LeMars, IA
 Project Number PCSWA18001
 SLF Permit No. 75SDP-0474P

Sampling Information

Date Sampled 5-3-23
 Sampling Crew Kent Averbold
 Equipment Geo Tech
 Water Level OAKTON
 pH/Conductivity 5-2-23
 Equipment Calibration Date 5-2-23
 Equipment Calibration Time

Weather Conditions

Recorded Depth	Well#	Date	Static Water Level	Measured Well Depth	Purge Time Start	Purge Time Finish	Bailing Equipment (see note)	Purge Volume Gal	Stabilized pH	Stabilized Conductivity	Stabilized Temperature	Methane Gas	Capped Properly Y/N
32.7	MW-7	5/3	25.3	32.9	9:00	9:05	S	3.00	6.66	1713	12.9	0%	Y
27.6	MW-8	5-3	23.7	27.8	9:21	9:23	S	1.64	6.95	1390	12.8	0%	Y
25.5	MW-9	5-3	24.2	25.3	-	-	-	.44	-	-	-	-	
32.8	MW-10	5-3	22.7	32.6	10:35	10:41	S	2.78	6.91	1538	12.4	0%	Y
39	MW-11	5-3	32.2	39.1	11:01	11:06	S	2.70	6.75	1259	13.5	0%	Y
53.6	MW-12	5-3	45.6	53.6	12:00	12:04	S	3.2	6.57	1481	15.0	0%	Y
36.56	MW-13	5-3	25.9	36.5	9:54	10:03	S	4.25	6.93	1446	12.1	0%	Y
50.16	MW-14	5/3	47.4	50.9	11:35	-	-	1.4	6.64	1501	14.5	0%	Y
43.2	MW-15	-	-	43.2	-	-	-	-	-	-	-	-	
37.3	MW-16	5/3	29.	37.4	8:06	8:08	S	3.30	7.06	1319	11.4	0%	Y
32.6	MW-17	5-3	20.6	31.9	8:23	8:25	S	4.52	6.47	1326	11.7	0%	Y

Note: Low-Flow Pump (LF), Submersible (S), Per Pump (P), Waterra (W), Dedicated Bailer (DB), Bailer (B)

MW-16 - Purge Dry - Purge 1.5 gal
 MW-17 - Purge Dry - Purge 3 gal
 MW-8 - Pumped Dry while testing
 MW-9 - could not purge, could not sample
 MW-14 - Purge Dry - only purged .5 gallon
 was able to get samples - well had a trickle

Login Sample Receipt Checklist

Client: Plymouth Co. Solid Waste

Job Number: 310-255036-1

Login Number: 255036

List Source: Eurofins Cedar Falls

List Number: 1

Creator: Costello, Mackenzie K

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

ANALYTICAL REPORT

May 22, 2023

Work Order: 1GE0769

Page 1 of 5

Report To
Meredith Liechti Eurofins Test America, Cedar Falls 3019 Venture Way Cedar Falls, IA 50613

Work Order Information
Date Received: 5/5/2023 11:50:00AM Collector: Unknown Phone: (319) 277-2401 PO Number: US1702520285

Project: Subcontract - ML

Project Number: 310-255036-1

CASE NARRATIVE

The samples received on 05/05/23 11:50 for Work Order 1GE0769 were contained in client supplied containers.

Analyte	Result	MRL	Batch	Method	Analyst	Analyzed	Qualifier
1GE0769-01	MW-17 (310-255036-2)			Matrix: Water		Collected: 05/03/23 08:23	
Total Organic Halogens (TOX)	<0.010 mg/L	0.010	1GE0977	EPA 9020	LNH	05/16/23 15:23	
1GE0769-02	MW-16 (310-255036-3)			Matrix: Water		Collected: 05/03/23 08:06	
Total Organic Halogens (TOX)	<0.010 mg/L	0.010	1GE0977	EPA 9020	LNH	05/16/23 15:23	
1GE0769-03	MW-8 (310-255036-4)			Matrix: Water		Collected: 05/03/23 09:21	
Total Organic Halogens (TOX)	0.065 mg/L	0.010	1GE0977	EPA 9020	LNH	05/16/23 15:23	
1GE0769-04	MW-10 (310-255036-5)			Matrix: Water		Collected: 05/03/23 10:35	
Total Organic Halogens (TOX)	0.045 mg/L	0.010	1GE0977	EPA 9020	LNH	05/16/23 15:23	
1GE0769-05	MW-12 (310-255036-6)			Matrix: Water		Collected: 05/03/23 12:00	
Total Organic Halogens (TOX)	0.047 mg/L	0.010	1GE1129	EPA 9020	LNH	05/18/23 13:40	TOX-2
1GE0769-06	MW-14 (310-255036-7)			Matrix: Water		Collected: 05/03/23 11:35	
Total Organic Halogens (TOX)	0.093 mg/L	0.010	1GE1129	EPA 9020	LNH	05/18/23 13:40	TOX-2
1GE0769-07	MW-11 (310-255036-9)			Matrix: Water		Collected: 05/03/23 11:09	
Total Organic Halogens (TOX)	<0.010 mg/L	0.010	1GE1129	EPA 9020	LNH	05/18/23 13:40	
1GE0769-08	MW-13 (310-255036-10)			Matrix: Water		Collected: 05/03/23 09:54	
Total Organic Halogens (TOX)	0.077 mg/L	0.010	1GE1129	EPA 9020	LNH	05/18/23 13:40	TOX-2

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. Samples were preserved in accordance with 40 CFR for pH adjustment unless otherwise noted. MRL= Method Reporting Limit.

Eurofins Test America, Cedar Falls
3019 Venture Way
Cedar Falls, IA 50613

May 22, 2023
Page 2 of 5

Work Order: 1GE0769

Determination of Conventional Chemistry Parameters - Quality Control
Keystone Laboratories - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 1GE0977 - TOX/TX/EOX

Blank (1GE0977-BLK1)				Prepared: 05/15/23 Analyzed: 05/16/23						
Total Organic Halogens (TOX)	ND	0.010	mg/L							
LCS (1GE0977-BS1)				Prepared: 05/15/23 Analyzed: 05/16/23						
Total Organic Halogens (TOX)	0.1151	0.010	mg/L	0.111060		104	76-114			
LCS Dup (1GE0977-BSD1)				Prepared: 05/15/23 Analyzed: 05/16/23						
Total Organic Halogens (TOX)	0.1163	0.010	mg/L	0.111060		105	76-114	1.05	18	
Reference (1GE0977-SRM1)				Prepared: 05/15/23 Analyzed: 05/16/23						
Total Organic Halogens (TOX)	0.1069	0.010	mg/L	0.108908		98.2	90-110			
Reference (1GE0977-SRM2)				Prepared: 05/15/23 Analyzed: 05/16/23						
Total Organic Halogens (TOX)	0.1120	0.010	mg/L	0.108908		103	90-110			

Batch 1GE1129 - TOX/TX/EOX

Blank (1GE1129-BLK1)				Prepared: 05/17/23 Analyzed: 05/18/23						
Total Organic Halogens (TOX)	ND	0.010	mg/L							
LCS (1GE1129-BS1)				Prepared: 05/17/23 Analyzed: 05/18/23						
Total Organic Halogens (TOX)	0.1062	0.010	mg/L	0.111060		95.7	76-114			
LCS Dup (1GE1129-BSD1)				Prepared: 05/17/23 Analyzed: 05/18/23						
Total Organic Halogens (TOX)	0.1061	0.010	mg/L	0.111060		95.6	76-114	0.0942	18	
Reference (1GE1129-SRM1)				Prepared: 05/17/23 Analyzed: 05/18/23						
Total Organic Halogens (TOX)	0.1073	0.010	mg/L	0.108908		98.5	90-110			

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. Samples were preserved in accordance with 40 CFR for pH adjustment unless otherwise noted. MRL= Method Reporting Limit.

Eurofins Test America, Cedar Falls
3019 Venture Way
Cedar Falls, IA 50613

May 22, 2023
Page 3 of 5

Work Order: 1GE0769

Determination of Conventional Chemistry Parameters - Quality Control
Keystone Laboratories - Newton

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 1GE1129 - TOX/TX/EOX

Reference (1GE1129-SRM2)

Prepared: 05/17/23 Analyzed: 05/18/23

Total Organic Halogens (TOX)	0.1054	0.010	mg/L	0.108908	96.8	90-110
------------------------------	--------	-------	------	----------	------	--------

ND = Non Detect; REC= Recovery; RPD= Relative Percent Difference

Certified Analyses Included In This Report

Method/Matrix		Analyte	Certifications	
EPA 9020 in Water		Total Organic Halogens (TOX)	KS-NT,SIA1X	
Code	Description	Number	Expires	
KS-KC	Kansas Department of Health and Environment-KC	E-10110	04/30/2024	
KS-NT	Kansas Department of Health and Environment (NELAP)	E-10287	10/31/2023	
MO-KC	Missouri Department of Natural Resources (KC)	140	04/30/2023	
MO-NT	Missouri Department of Natural Resources (Newton)	10170	04/30/2026	
SIA1X	Iowa Dept. of Natural Resources	95	02/01/2024	

Notes and Definitions

TOX-2 Repeated analysis of this sample consistently exceeded greater than 10% breakthrough to the second column.

End of Report

Sue Thompson

Keystone Laboratories

Sue Thompson
Client Services Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. Samples were preserved in accordance with 40 CFR for pH adjustment unless otherwise noted. MRL= Method Reporting Limit.

3019 Venture Way
Cedar Falls, IA 50613
Phone: 319-277-2401 Fax: 319-277-2425

Environment Testing

Client Information (Sub Contract Lab)		Sampler:		Lab PM: Liechti, Meredith L		Carrier Tracking No(s):		COC No: 310-61042.1			
Client Contact:		Phone:		E-Mail: meredith.liechti@et.eurofinsus.com		State of Origin: Iowa		Page: Page 1 of 1			
Shipping/Receiving											
Company: Keystone Laboratories, Inc.				Accreditations Required (See note): State Program - Iowa		Job #:		310-255036-1			
Address: 600 East 17th Street South,		Due Date Requested: 5/18/2023		Analysis Requested		 1 G E 0 7 6 9 Eurofins Test America, Cedar Falls PM: Sue Thompson		Preservation Codes: A - HCL M - Hexane N - None			
City: Newton		TAT Requested (days):									
State, Zip: IA, 50208		PO #:									
Phone:		WO #:									
Email:		Project #:		Project #:		Project #:		Project #:			
Project Name: Plymouth County Landfill		SSOW#:		SSOW#:		SSOW#:		SSOW#:			
Site:		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)		Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)			
Sample Identification - Client ID (Lab ID)		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)		Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)			
MW-17 (310-255036-2)		5/3/23		08:23 Central		Water		X			
MW-16 (310-255036-3)		5/3/23		08:06 Central		Water		X			
MW-8 (310-255036-4)		5/3/23		09:21 Central		Water		X			
MW-10 (310-255036-5)		5/3/23		10:35 Central		Water		X			
MW-12 (310-255036-6)		5/3/23		12:00 Central		Water		X			
MW-14 (310-255036-7)		5/3/23		11:35 Central		Water		X			
MW-11 (310-255036-9)		5/3/23		11:09 Central		Water		X			
MW-13 (310-255036-10)		5/3/23		09:54 Central		Water		X			
Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing North Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing North Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing North Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing North Central, LLC.											
Possible Hazard Identification					Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)						
Unconfirmed					☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months						
Deliverable Requested: I, II, III, IV, Other (specify)					Primary Deliverable Rank: 2						
					Special Instructions/QC Requirements:						
Empty Kit Relinquished by:					Date:		Time:		Method of Shipment:		
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:		Company:	
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:		Company:	
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:		Company:	
Custody Seals Intact:		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:							
X Yes Δ No											

ICOC No:
310-61042



1 G E 0 7 6 9

Eurofins Test America, Cedar Falls

PM: Sue Thompson

Containers

Count

8

Container Type

Amber Glass 500mL Narrow - Sulfuric Acid

Preservative

Sulfuric Acid

ANALYTICAL REPORT

PREPARED FOR

Attn: Kent Herbold
Plymouth Co. Solid Waste
34898 150th Street
LeMars, Iowa 51031

Generated 10/25/2023 2:22:18 PM

JOB DESCRIPTION

Plymouth County Landfill-Sept

JOB NUMBER

310-267065-1

Eurofins Cedar Falls

Job Notes

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

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

Authorization



Generated
10/25/2023 2:22:18 PM

Authorized for release by
Meredith Liechti, Service Center Manager
meredith.liechti@et.eurofinsus.com
(319)277-2401

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Case Narrative

Client: Plymouth Co. Solid Waste
Project/Site: Plymouth County Landfill-Sept

Job ID: 310-267065-1

Job ID: 310-267065-1

Laboratory: Eurofins Cedar Falls

Narrative

Job Narrative 310-267065-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

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

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

Receipt

The samples were received on 10/12/2023 9:30 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.6°C

GC/MS VOA

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

HPLC/IC

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

Metals

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

General Chemistry

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

Sample Summary

Client: Plymouth Co. Solid Waste
Project/Site: Plymouth County Landfill-Sept

Job ID: 310-267065-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
310-267065-1	MW-17	Water	10/11/23 08:24	10/12/23 09:30
310-267065-2	MW-8	Water	10/11/23 09:00	10/12/23 09:30
310-267065-3	MW-12	Water	10/11/23 10:33	10/12/23 09:30
310-267065-4	MW-16	Water	10/11/23 08:07	10/12/23 09:30
310-267065-5	MW-10	Water	10/11/23 09:42	10/12/23 09:30
310-267065-6	MW-14	Water	10/11/23 10:07	10/12/23 09:30
310-267065-7	Duplicate	Water	10/11/23 10:07	10/12/23 09:30
310-267065-8	MW-7	Water	10/11/23 08:48	10/12/23 09:30
310-267065-9	Trip Blank	Water	10/11/23 00:00	10/12/23 09:30
310-267065-10	MW-11	Water	10/11/23 09:55	10/12/23 09:30
310-267065-11	MW-13	Water	10/11/23 09:25	10/12/23 09:30

Detection Summary

Client: Plymouth Co. Solid Waste
Project/Site: Plymouth County Landfill-Sept

Job ID: 310-267065-1

Client Sample ID: MW-17

Lab Sample ID: 310-267065-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chemical Oxygen Demand	7.45		5.00		mg/L	1		5220D LL	Total/NA

Client Sample ID: MW-8

Lab Sample ID: 310-267065-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	45.7		1.00		ug/L	1		8260D	Total/NA
Vinyl chloride	1.03		1.00		ug/L	1		8260D	Total/NA
Chloride	12.7		5.00		mg/L	5		9056A	Total/NA
Chemical Oxygen Demand	14.2		5.00		mg/L	1		5220D LL	Total/NA

Client Sample ID: MW-12

Lab Sample ID: 310-267065-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	1.16		0.500		ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	31.3		1.00		ug/L	1		8260D	Total/NA
Vinyl chloride	3.56		1.00		ug/L	1		8260D	Total/NA
Chloride	34.0		5.00		mg/L	5		9056A	Total/NA
Iron	7.29		0.500		mg/L	1		6010D	Dissolved
Chemical Oxygen Demand	20.3		5.00		mg/L	1		5220D LL	Total/NA

Client Sample ID: MW-16

Lab Sample ID: 310-267065-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	7.89		5.00		mg/L	5		9056A	Total/NA
Chemical Oxygen Demand	28.7		5.00		mg/L	1		5220D LL	Total/NA

Client Sample ID: MW-10

Lab Sample ID: 310-267065-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	101		5.00		mg/L	5		9056A	Total/NA
Chemical Oxygen Demand	40.9		5.00		mg/L	1		5220D LL	Total/NA

Client Sample ID: MW-14

Lab Sample ID: 310-267065-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	41.6		1.00		ug/L	1		8260D	Total/NA
Chloride	109		5.00		mg/L	5		9056A	Total/NA
Chemical Oxygen Demand	42.6		5.00		mg/L	1		5220D LL	Total/NA

Client Sample ID: Duplicate

Lab Sample ID: 310-267065-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	102		5.00		mg/L	5		9056A	Total/NA
Chemical Oxygen Demand	36.2		5.00		mg/L	1		5220D LL	Total/NA

Client Sample ID: MW-7

Lab Sample ID: 310-267065-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2-Dichloroethane	1.29		1.00		ug/L	1		8260D	Total/NA
1,2-Dichloropropane	12.9		1.00		ug/L	1		8260D	Total/NA
Benzene	0.878		0.500		ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	203		1.00		ug/L	1		8260D	Total/NA
Tetrachloroethene	1.75		1.00		ug/L	1		8260D	Total/NA
Trichloroethene	9.37		1.00		ug/L	1		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Cedar Falls

Detection Summary

Client: Plymouth Co. Solid Waste
Project/Site: Plymouth County Landfill-Sept

Job ID: 310-267065-1

Client Sample ID: MW-7 (Continued)

Lab Sample ID: 310-267065-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vinyl chloride	4.28		1.00		ug/L	1		8260D	Total/NA

Client Sample ID: Trip Blank

Lab Sample ID: 310-267065-9

No Detections.

Client Sample ID: MW-11

Lab Sample ID: 310-267065-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	55.4		5.00		mg/L	5		9056A	Total/NA
Chemical Oxygen Demand	9.48		5.00		mg/L	1		5220D LL	Total/NA

Client Sample ID: MW-13

Lab Sample ID: 310-267065-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	33.1		5.00		mg/L	5		9056A	Total/NA
Iron	0.747		0.500		mg/L	1		6010D	Dissolved
Chemical Oxygen Demand	20.3		5.00		mg/L	1		5220D LL	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Cedar Falls

Client Sample Results

Client: Plymouth Co. Solid Waste
Project/Site: Plymouth County Landfill-Sept

Job ID: 310-267065-1

Client Sample ID: MW-17

Lab Sample ID: 310-267065-1

Date Collected: 10/11/23 08:24

Matrix: Water

Date Received: 10/12/23 09:30

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.00		1.00		ug/L			10/13/23 14:19	1
1,2-Dichloroethane	<1.00		1.00		ug/L			10/13/23 14:19	1
1,2-Dichloropropane	<1.00		1.00		ug/L			10/13/23 14:19	1
Benzene	<0.500		0.500		ug/L			10/13/23 14:19	1
Chlorodibromomethane	<5.00		5.00		ug/L			10/13/23 14:19	1
cis-1,2-Dichloroethene	<1.00		1.00		ug/L			10/13/23 14:19	1
Methylene Chloride	<5.00		5.00		ug/L			10/13/23 14:19	1
Tetrachloroethene	<1.00		1.00		ug/L			10/13/23 14:19	1
Trichloroethene	<1.00		1.00		ug/L			10/13/23 14:19	1
Vinyl chloride	<1.00		1.00		ug/L			10/13/23 14:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	96		80 - 128		10/13/23 14:19	1
Toluene-d8 (Surr)	98		80 - 120		10/13/23 14:19	1
4-Bromofluorobenzene (Surr)	94		80 - 120		10/13/23 14:19	1

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00		5.00		mg/L			10/23/23 17:24	5

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.500		0.500		mg/L			10/24/23 17:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	<0.200		0.200		mg/L			10/12/23 23:03	1
Chemical Oxygen Demand (SM 5220D LL)	7.45		5.00		mg/L			10/17/23 09:57	1

Client Sample Results

Client: Plymouth Co. Solid Waste
Project/Site: Plymouth County Landfill-Sept

Job ID: 310-267065-1

Client Sample ID: MW-8

Lab Sample ID: 310-267065-2

Date Collected: 10/11/23 09:00

Matrix: Water

Date Received: 10/12/23 09:30

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.00		1.00		ug/L			10/13/23 13:56	1
1,2-Dichloroethane	<1.00		1.00		ug/L			10/13/23 13:56	1
1,2-Dichloropropane	<1.00		1.00		ug/L			10/13/23 13:56	1
Benzene	<0.500		0.500		ug/L			10/13/23 13:56	1
Chlorodibromomethane	<5.00		5.00		ug/L			10/13/23 13:56	1
cis-1,2-Dichloroethene	45.7		1.00		ug/L			10/13/23 13:56	1
Methylene Chloride	<5.00		5.00		ug/L			10/13/23 13:56	1
Tetrachloroethene	<1.00		1.00		ug/L			10/13/23 13:56	1
Trichloroethene	<1.00		1.00		ug/L			10/13/23 13:56	1
Vinyl chloride	1.03		1.00		ug/L			10/13/23 13:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	96		80 - 128		10/13/23 13:56	1
Toluene-d8 (Surr)	98		80 - 120		10/13/23 13:56	1
4-Bromofluorobenzene (Surr)	98		80 - 120		10/13/23 13:56	1

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	12.7		5.00		mg/L			10/23/23 18:07	5

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.500		0.500		mg/L			10/24/23 17:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	<0.200		0.200		mg/L			10/12/23 23:05	1
Chemical Oxygen Demand (SM 5220D LL)	14.2		5.00		mg/L			10/17/23 09:57	1

Client Sample Results

Client: Plymouth Co. Solid Waste
Project/Site: Plymouth County Landfill-Sept

Job ID: 310-267065-1

Client Sample ID: MW-12

Lab Sample ID: 310-267065-3

Date Collected: 10/11/23 10:33

Matrix: Water

Date Received: 10/12/23 09:30

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.00		1.00		ug/L			10/13/23 17:03	1
1,2-Dichloroethane	<1.00		1.00		ug/L			10/13/23 17:03	1
1,2-Dichloropropane	<1.00		1.00		ug/L			10/13/23 17:03	1
Benzene	1.16		0.500		ug/L			10/13/23 17:03	1
Chlorodibromomethane	<5.00		5.00		ug/L			10/13/23 17:03	1
cis-1,2-Dichloroethene	31.3		1.00		ug/L			10/13/23 17:03	1
Methylene Chloride	<5.00		5.00		ug/L			10/13/23 17:03	1
Tetrachloroethene	<1.00		1.00		ug/L			10/13/23 17:03	1
Trichloroethene	<1.00		1.00		ug/L			10/13/23 17:03	1
Vinyl chloride	3.56		1.00		ug/L			10/13/23 17:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	100		80 - 128		10/13/23 17:03	1
Toluene-d8 (Surr)	98		80 - 120		10/13/23 17:03	1
4-Bromofluorobenzene (Surr)	100		80 - 120		10/13/23 17:03	1

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	34.0		5.00		mg/L			10/23/23 18:22	5

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	7.29		0.500		mg/L			10/24/23 17:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	<0.200		0.200		mg/L			10/12/23 23:05	1
Chemical Oxygen Demand (SM 5220D LL)	20.3		5.00		mg/L			10/17/23 09:57	1

Eurofins Cedar Falls

Client Sample Results

Client: Plymouth Co. Solid Waste
Project/Site: Plymouth County Landfill-Sept

Job ID: 310-267065-1

Client Sample ID: MW-16

Lab Sample ID: 310-267065-4

Date Collected: 10/11/23 08:07

Matrix: Water

Date Received: 10/12/23 09:30

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.00		1.00		ug/L			10/13/23 14:43	1
1,2-Dichloroethane	<1.00		1.00		ug/L			10/13/23 14:43	1
1,2-Dichloropropane	<1.00		1.00		ug/L			10/13/23 14:43	1
Benzene	<0.500		0.500		ug/L			10/13/23 14:43	1
Chlorodibromomethane	<5.00		5.00		ug/L			10/13/23 14:43	1
cis-1,2-Dichloroethene	<1.00		1.00		ug/L			10/13/23 14:43	1
Methylene Chloride	<5.00		5.00		ug/L			10/13/23 14:43	1
Tetrachloroethene	<1.00		1.00		ug/L			10/13/23 14:43	1
Trichloroethene	<1.00		1.00		ug/L			10/13/23 14:43	1
Vinyl chloride	<1.00		1.00		ug/L			10/13/23 14:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	96		80 - 128		10/13/23 14:43	1
Toluene-d8 (Surr)	99		80 - 120		10/13/23 14:43	1
4-Bromofluorobenzene (Surr)	99		80 - 120		10/13/23 14:43	1

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.89		5.00		mg/L			10/23/23 18:37	5

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.500		0.500		mg/L			10/24/23 17:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	<0.200		0.200		mg/L			10/12/23 23:08	1
Chemical Oxygen Demand (SM 5220D LL)	28.7		5.00		mg/L			10/17/23 09:57	1

Client Sample Results

Client: Plymouth Co. Solid Waste
Project/Site: Plymouth County Landfill-Sept

Job ID: 310-267065-1

Client Sample ID: MW-10

Lab Sample ID: 310-267065-5

Date Collected: 10/11/23 09:42

Matrix: Water

Date Received: 10/12/23 09:30

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.00		1.00		ug/L			10/13/23 16:40	1
1,2-Dichloroethane	<1.00		1.00		ug/L			10/13/23 16:40	1
1,2-Dichloropropane	<1.00		1.00		ug/L			10/13/23 16:40	1
Benzene	<0.500		0.500		ug/L			10/13/23 16:40	1
Chlorodibromomethane	<5.00		5.00		ug/L			10/13/23 16:40	1
cis-1,2-Dichloroethene	<1.00		1.00		ug/L			10/13/23 16:40	1
Methylene Chloride	<5.00		5.00		ug/L			10/13/23 16:40	1
Tetrachloroethene	<1.00		1.00		ug/L			10/13/23 16:40	1
Trichloroethene	<1.00		1.00		ug/L			10/13/23 16:40	1
Vinyl chloride	<1.00		1.00		ug/L			10/13/23 16:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	96		80 - 128		10/13/23 16:40	1
Toluene-d8 (Surr)	99		80 - 120		10/13/23 16:40	1
4-Bromofluorobenzene (Surr)	101		80 - 120		10/13/23 16:40	1

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	101		5.00		mg/L			10/23/23 18:51	5

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.500		0.500		mg/L			10/24/23 17:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	<0.200		0.200		mg/L			10/12/23 23:08	1
Chemical Oxygen Demand (SM 5220D LL)	40.9		5.00		mg/L			10/17/23 09:57	1

Client Sample Results

Client: Plymouth Co. Solid Waste
Project/Site: Plymouth County Landfill-Sept

Job ID: 310-267065-1

Client Sample ID: MW-14

Lab Sample ID: 310-267065-6

Date Collected: 10/11/23 10:07

Matrix: Water

Date Received: 10/12/23 09:30

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.00		1.00		ug/L			10/13/23 15:06	1
1,2-Dichloroethane	<1.00		1.00		ug/L			10/13/23 15:06	1
1,2-Dichloropropane	<1.00		1.00		ug/L			10/13/23 15:06	1
Benzene	<0.500		0.500		ug/L			10/13/23 15:06	1
Chlorodibromomethane	<5.00		5.00		ug/L			10/13/23 15:06	1
cis-1,2-Dichloroethene	41.6		1.00		ug/L			10/13/23 15:06	1
Methylene Chloride	<5.00		5.00		ug/L			10/13/23 15:06	1
Tetrachloroethene	<1.00		1.00		ug/L			10/13/23 15:06	1
Trichloroethene	<1.00		1.00		ug/L			10/13/23 15:06	1
Vinyl chloride	<1.00		1.00		ug/L			10/13/23 15:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	97		80 - 128		10/13/23 15:06	1
Toluene-d8 (Surr)	100		80 - 120		10/13/23 15:06	1
4-Bromofluorobenzene (Surr)	99		80 - 120		10/13/23 15:06	1

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	109		5.00		mg/L			10/23/23 19:06	5

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.500		0.500		mg/L			10/24/23 17:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	<0.200		0.200		mg/L			10/12/23 23:10	1
Chemical Oxygen Demand (SM 5220D LL)	42.6		5.00		mg/L			10/17/23 09:57	1

Client Sample Results

Client: Plymouth Co. Solid Waste
Project/Site: Plymouth County Landfill-Sept

Job ID: 310-267065-1

Client Sample ID: Duplicate

Lab Sample ID: 310-267065-7

Date Collected: 10/11/23 10:07

Matrix: Water

Date Received: 10/12/23 09:30

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.00		1.00		ug/L			10/13/23 16:16	1
1,2-Dichloroethane	<1.00		1.00		ug/L			10/13/23 16:16	1
1,2-Dichloropropane	<1.00		1.00		ug/L			10/13/23 16:16	1
Benzene	<0.500		0.500		ug/L			10/13/23 16:16	1
Chlorodibromomethane	<5.00		5.00		ug/L			10/13/23 16:16	1
cis-1,2-Dichloroethene	<1.00		1.00		ug/L			10/13/23 16:16	1
Methylene Chloride	<5.00		5.00		ug/L			10/13/23 16:16	1
Tetrachloroethene	<1.00		1.00		ug/L			10/13/23 16:16	1
Trichloroethene	<1.00		1.00		ug/L			10/13/23 16:16	1
Vinyl chloride	<1.00		1.00		ug/L			10/13/23 16:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	95		80 - 128		10/13/23 16:16	1
Toluene-d8 (Surr)	100		80 - 120		10/13/23 16:16	1
4-Bromofluorobenzene (Surr)	99		80 - 120		10/13/23 16:16	1

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	102		5.00		mg/L			10/23/23 16:18	5

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.500		0.500		mg/L			10/24/23 17:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	<0.200		0.200		mg/L			10/12/23 23:10	1
Chemical Oxygen Demand (SM 5220D LL)	36.2		5.00		mg/L			10/17/23 09:57	1

Client Sample Results

Client: Plymouth Co. Solid Waste
Project/Site: Plymouth County Landfill-Sept

Job ID: 310-267065-1

Client Sample ID: MW-7

Lab Sample ID: 310-267065-8

Date Collected: 10/11/23 08:48

Matrix: Water

Date Received: 10/12/23 09:30

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.00		1.00		ug/L			10/14/23 03:18	1
1,2-Dichloroethane	1.29		1.00		ug/L			10/14/23 03:18	1
1,2-Dichloropropane	12.9		1.00		ug/L			10/14/23 03:18	1
Benzene	0.878		0.500		ug/L			10/14/23 03:18	1
Chlorodibromomethane	<5.00		5.00		ug/L			10/14/23 03:18	1
cis-1,2-Dichloroethene	203		1.00		ug/L			10/14/23 03:18	1
Methylene Chloride	<5.00		5.00		ug/L			10/14/23 03:18	1
Tetrachloroethene	1.75		1.00		ug/L			10/14/23 03:18	1
Trichloroethene	9.37		1.00		ug/L			10/14/23 03:18	1
Vinyl chloride	4.28		1.00		ug/L			10/14/23 03:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	109		80 - 128		10/14/23 03:18	1
Toluene-d8 (Surr)	98		80 - 120		10/14/23 03:18	1
4-Bromofluorobenzene (Surr)	101		80 - 120		10/14/23 03:18	1

Client Sample Results

Client: Plymouth Co. Solid Waste
Project/Site: Plymouth County Landfill-Sept

Job ID: 310-267065-1

Client Sample ID: Trip Blank

Lab Sample ID: 310-267065-9

Date Collected: 10/11/23 00:00

Matrix: Water

Date Received: 10/12/23 09:30

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.00		1.00		ug/L			10/13/23 23:18	1
1,2-Dichloroethane	<1.00		1.00		ug/L			10/13/23 23:18	1
1,2-Dichloropropane	<1.00		1.00		ug/L			10/13/23 23:18	1
Benzene	<0.500		0.500		ug/L			10/13/23 23:18	1
Chlorodibromomethane	<5.00		5.00		ug/L			10/13/23 23:18	1
cis-1,2-Dichloroethene	<1.00		1.00		ug/L			10/13/23 23:18	1
Methylene Chloride	<5.00		5.00		ug/L			10/13/23 23:18	1
Tetrachloroethene	<1.00		1.00		ug/L			10/13/23 23:18	1
Trichloroethene	<1.00		1.00		ug/L			10/13/23 23:18	1
Vinyl chloride	<1.00		1.00		ug/L			10/13/23 23:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	103		80 - 128		10/13/23 23:18	1
Toluene-d8 (Surr)	97		80 - 120		10/13/23 23:18	1
4-Bromofluorobenzene (Surr)	106		80 - 120		10/13/23 23:18	1

Client Sample Results

Client: Plymouth Co. Solid Waste
Project/Site: Plymouth County Landfill-Sept

Job ID: 310-267065-1

Client Sample ID: MW-11

Lab Sample ID: 310-267065-10

Date Collected: 10/11/23 09:55

Matrix: Water

Date Received: 10/12/23 09:30

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	55.4		5.00		mg/L			10/23/23 20:04	5

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.500		0.500		mg/L			10/24/23 17:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	<0.200		0.200		mg/L			10/12/23 23:11	1
Chemical Oxygen Demand (SM 5220D LL)	9.48		5.00		mg/L			10/17/23 09:57	1

Client Sample Results

Client: Plymouth Co. Solid Waste
Project/Site: Plymouth County Landfill-Sept

Job ID: 310-267065-1

Client Sample ID: MW-13

Lab Sample ID: 310-267065-11

Date Collected: 10/11/23 09:25

Matrix: Water

Date Received: 10/12/23 09:30

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	33.1		5.00		mg/L			10/23/23 20:19	5

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.747		0.500		mg/L			10/24/23 17:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	<0.200		0.200		mg/L			10/12/23 23:12	1
Chemical Oxygen Demand (SM 5220D LL)	20.3		5.00		mg/L			10/17/23 09:57	1

Definitions/Glossary

Client: Plymouth Co. Solid Waste
Project/Site: Plymouth County Landfill-Sept

Job ID: 310-267065-1

Qualifiers

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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

Surrogate Summary

Client: Plymouth Co. Solid Waste
Project/Site: Plymouth County Landfill-Sept

Job ID: 310-267065-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
Lab Sample ID	Client Sample ID	DBFM (80-128)	TOL (80-120)	BFB (80-120)
310-267065-1	MW-17	96	98	94
310-267065-1 MS	MW-17	105	100	98
310-267065-1 MSD	MW-17	106	98	100
310-267065-2	MW-8	96	98	98
310-267065-3	MW-12	100	98	100
310-267065-4	MW-16	96	99	99
310-267065-5	MW-10	96	99	101
310-267065-6	MW-14	97	100	99
310-267065-7	Duplicate	95	100	99
310-267065-8	MW-7	109	98	101
310-267065-9	Trip Blank	103	97	106
LCS 310-402450/6	Lab Control Sample	103	100	100
LCS 310-402450/7	Lab Control Sample	98	100	100
LCS 310-402456/6	Lab Control Sample	98	102	97
LCS 310-402456/7	Lab Control Sample	98	96	105
MB 310-402450/5	Method Blank	94	99	100
MB 310-402456/5	Method Blank	95	99	103

Surrogate Legend

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

QC Sample Results

Client: Plymouth Co. Solid Waste
Project/Site: Plymouth County Landfill-Sept

Job ID: 310-267065-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 310-402450/5

Matrix: Water

Analysis Batch: 402450

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.00		1.00		ug/L			10/13/23 09:39	1
1,2-Dichloroethane	<1.00		1.00		ug/L			10/13/23 09:39	1
1,2-Dichloropropane	<1.00		1.00		ug/L			10/13/23 09:39	1
Benzene	<0.500		0.500		ug/L			10/13/23 09:39	1
Chlorodibromomethane	<5.00		5.00		ug/L			10/13/23 09:39	1
cis-1,2-Dichloroethene	<1.00		1.00		ug/L			10/13/23 09:39	1
Methylene Chloride	<5.00		5.00		ug/L			10/13/23 09:39	1
Tetrachloroethene	<1.00		1.00		ug/L			10/13/23 09:39	1
Trichloroethene	<1.00		1.00		ug/L			10/13/23 09:39	1
Vinyl chloride	<1.00		1.00		ug/L			10/13/23 09:39	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	94		80 - 128		10/13/23 09:39	1
Toluene-d8 (Surr)	99		80 - 120		10/13/23 09:39	1
4-Bromofluorobenzene (Surr)	100		80 - 120		10/13/23 09:39	1

Lab Sample ID: LCS 310-402450/6

Matrix: Water

Analysis Batch: 402450

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	20.0	20.18		ug/L		101	71 - 128
1,2-Dichloroethane	20.0	18.09		ug/L		90	70 - 124
1,2-Dichloropropane	20.0	19.41		ug/L		97	73 - 121
Benzene	20.0	18.64		ug/L		93	73 - 122
Chlorodibromomethane	20.0	18.93		ug/L		95	69 - 122
cis-1,2-Dichloroethene	20.0	18.95		ug/L		95	74 - 120
Methylene Chloride	20.0	19.04		ug/L		95	50 - 150
Tetrachloroethene	20.0	20.37		ug/L		102	69 - 131
Trichloroethene	20.0	19.36		ug/L		97	73 - 126

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Dibromofluoromethane (Surr)	103		80 - 128
Toluene-d8 (Surr)	100		80 - 120
4-Bromofluorobenzene (Surr)	100		80 - 120

Lab Sample ID: LCS 310-402450/7

Matrix: Water

Analysis Batch: 402450

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Vinyl chloride	20.0	19.02		ug/L		95	57 - 136

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Dibromofluoromethane (Surr)	98		80 - 128
Toluene-d8 (Surr)	100		80 - 120
4-Bromofluorobenzene (Surr)	100		80 - 120

Eurofins Cedar Falls

QC Sample Results

Client: Plymouth Co. Solid Waste
Project/Site: Plymouth County Landfill-Sept

Job ID: 310-267065-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 310-267065-1 MS

Matrix: Water

Analysis Batch: 402450

Client Sample ID: MW-17

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	<1.00		25.0	22.42		ug/L		90	49 - 130
1,2-Dichloroethane	<1.00		25.0	21.61		ug/L		86	57 - 130
1,2-Dichloropropane	<1.00		25.0	19.65		ug/L		79	60 - 130
Benzene	<0.500		25.0	19.54		ug/L		78	47 - 130
Chlorodibromomethane	<5.00		25.0	20.27		ug/L		81	53 - 130
cis-1,2-Dichloroethene	<1.00		25.0	20.79		ug/L		83	52 - 130
Methylene Chloride	<5.00		25.0	20.40		ug/L		82	50 - 150
Tetrachloroethene	<1.00		25.0	20.54		ug/L		82	42 - 131
Trichloroethene	<1.00		25.0	20.39		ug/L		82	55 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
Dibromofluoromethane (Surr)	105		80 - 128
Toluene-d8 (Surr)	100		80 - 120
4-Bromofluorobenzene (Surr)	98		80 - 120

Lab Sample ID: 310-267065-1 MSD

Matrix: Water

Analysis Batch: 402450

Client Sample ID: MW-17

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	<1.00		25.0	22.48		ug/L		90	49 - 130	0	20
1,2-Dichloroethane	<1.00		25.0	21.13		ug/L		85	57 - 130	2	21
1,2-Dichloropropane	<1.00		25.0	19.64		ug/L		79	60 - 130	0	31
Benzene	<0.500		25.0	19.69		ug/L		79	47 - 130	1	20
Chlorodibromomethane	<5.00		25.0	20.85		ug/L		83	53 - 130	3	20
cis-1,2-Dichloroethene	<1.00		25.0	20.59		ug/L		82	52 - 130	1	20
Methylene Chloride	<5.00		25.0	20.19		ug/L		81	50 - 150	1	24
Tetrachloroethene	<1.00		25.0	20.33		ug/L		81	42 - 131	1	20
Trichloroethene	<1.00		25.0	20.44		ug/L		82	55 - 130	0	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Dibromofluoromethane (Surr)	106		80 - 128
Toluene-d8 (Surr)	98		80 - 120
4-Bromofluorobenzene (Surr)	100		80 - 120

Lab Sample ID: MB 310-402456/5

Matrix: Water

Analysis Batch: 402456

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.00		1.00		ug/L			10/13/23 21:29	1
1,2-Dichloroethane	<1.00		1.00		ug/L			10/13/23 21:29	1
1,2-Dichloropropane	<1.00		1.00		ug/L			10/13/23 21:29	1
Benzene	<0.500		0.500		ug/L			10/13/23 21:29	1
Chlorodibromomethane	<5.00		5.00		ug/L			10/13/23 21:29	1
cis-1,2-Dichloroethene	<1.00		1.00		ug/L			10/13/23 21:29	1
Methylene Chloride	<5.00		5.00		ug/L			10/13/23 21:29	1
Tetrachloroethene	<1.00		1.00		ug/L			10/13/23 21:29	1

Eurofins Cedar Falls

QC Sample Results

Client: Plymouth Co. Solid Waste
Project/Site: Plymouth County Landfill-Sept

Job ID: 310-267065-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 310-402456/5

Matrix: Water

Analysis Batch: 402456

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	<1.00		1.00		ug/L			10/13/23 21:29	1
Vinyl chloride	<1.00		1.00		ug/L			10/13/23 21:29	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	95		80 - 128		10/13/23 21:29	1
Toluene-d8 (Surr)	99		80 - 120		10/13/23 21:29	1
4-Bromofluorobenzene (Surr)	103		80 - 120		10/13/23 21:29	1

Lab Sample ID: LCS 310-402456/6

Matrix: Water

Analysis Batch: 402456

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	20.0	19.34		ug/L		97	71 - 128
1,2-Dichloroethane	20.0	19.37		ug/L		97	70 - 124
1,2-Dichloropropane	20.0	19.89		ug/L		99	73 - 121
Benzene	20.0	19.19		ug/L		96	73 - 122
Chlorodibromomethane	20.0	18.05		ug/L		90	69 - 122
cis-1,2-Dichloroethene	20.0	18.91		ug/L		95	74 - 120
Methylene Chloride	20.0	21.72		ug/L		109	50 - 150
Tetrachloroethene	20.0	19.01		ug/L		95	69 - 131
Trichloroethene	20.0	18.54		ug/L		93	73 - 126

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Dibromofluoromethane (Surr)	98		80 - 128
Toluene-d8 (Surr)	102		80 - 120
4-Bromofluorobenzene (Surr)	97		80 - 120

Lab Sample ID: LCS 310-402456/7

Matrix: Water

Analysis Batch: 402456

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Vinyl chloride	20.0	19.54		ug/L		98	57 - 136

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Dibromofluoromethane (Surr)	98		80 - 128
Toluene-d8 (Surr)	96		80 - 120
4-Bromofluorobenzene (Surr)	105		80 - 120

Method: 9056A - Anions, Ion Chromatography

Lab Sample ID: MB 310-403563/3

Matrix: Water

Analysis Batch: 403563

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<1.00		1.00		mg/L			10/23/23 16:54	1

Eurofins Cedar Falls

QC Sample Results

Client: Plymouth Co. Solid Waste
Project/Site: Plymouth County Landfill-Sept

Job ID: 310-267065-1

Method: 9056A - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 310-403563/35

Matrix: Water

Analysis Batch: 403563

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			10.0	10.00		mg/L		100	90 - 110		

Lab Sample ID: 310-267065-1 MS

Matrix: Water

Analysis Batch: 403563

Client Sample ID: MW-17

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	<5.00		25.0	27.45		mg/L		99	80 - 120		

Lab Sample ID: 310-267065-1 MSD

Matrix: Water

Analysis Batch: 403563

Client Sample ID: MW-17

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	<5.00		25.0	27.59		mg/L		99	80 - 120	0	15

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 310-403727/67

Matrix: Water

Analysis Batch: 403727

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<0.500		0.500		mg/L			10/24/23 17:17	1

Lab Sample ID: LCS 310-403727/68

Matrix: Water

Analysis Batch: 403727

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Iron			0.500	0.4968	J	mg/L		99	80 - 120		

Lab Sample ID: 310-267065-1 DU

Matrix: Water

Analysis Batch: 403727

Client Sample ID: MW-17

Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Iron	<0.500			<0.500		mg/L				NC	20

Lab Sample ID: 310-267065-11 DU

Matrix: Water

Analysis Batch: 403727

Client Sample ID: MW-13

Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Iron	0.747			0.7649		mg/L				2	20

Eurofins Cedar Falls

QC Sample Results

Client: Plymouth Co. Solid Waste
Project/Site: Plymouth County Landfill-Sept

Job ID: 310-267065-1

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 310-402394/147

Matrix: Water

Analysis Batch: 402394

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	<0.200		0.200		mg/L			10/12/23 22:58	1

Lab Sample ID: LCS 310-402394/148

Matrix: Water

Analysis Batch: 402394

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	8.55	8.793		mg/L		103	90 - 110

Method: 5220D LL - COD

Lab Sample ID: MB 310-402764/33

Matrix: Water

Analysis Batch: 402764

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	<5.00		5.00		mg/L			10/17/23 09:57	1

Lab Sample ID: LCS 310-402764/34

Matrix: Water

Analysis Batch: 402764

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chemical Oxygen Demand	125	123.6		mg/L		99	85 - 115

QC Association Summary

Client: Plymouth Co. Solid Waste
Project/Site: Plymouth County Landfill-Sept

Job ID: 310-267065-1

GC/MS VOA

Analysis Batch: 402450

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-267065-1	MW-17	Total/NA	Water	8260D	
310-267065-2	MW-8	Total/NA	Water	8260D	
310-267065-3	MW-12	Total/NA	Water	8260D	
310-267065-4	MW-16	Total/NA	Water	8260D	
310-267065-5	MW-10	Total/NA	Water	8260D	
310-267065-6	MW-14	Total/NA	Water	8260D	
310-267065-7	Duplicate	Total/NA	Water	8260D	
MB 310-402450/5	Method Blank	Total/NA	Water	8260D	
LCS 310-402450/6	Lab Control Sample	Total/NA	Water	8260D	
LCS 310-402450/7	Lab Control Sample	Total/NA	Water	8260D	
310-267065-1 MS	MW-17	Total/NA	Water	8260D	
310-267065-1 MSD	MW-17	Total/NA	Water	8260D	

Analysis Batch: 402456

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-267065-8	MW-7	Total/NA	Water	8260D	
310-267065-9	Trip Blank	Total/NA	Water	8260D	
MB 310-402456/5	Method Blank	Total/NA	Water	8260D	
LCS 310-402456/6	Lab Control Sample	Total/NA	Water	8260D	
LCS 310-402456/7	Lab Control Sample	Total/NA	Water	8260D	

HPLC/IC

Analysis Batch: 403563

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-267065-1	MW-17	Total/NA	Water	9056A	
310-267065-2	MW-8	Total/NA	Water	9056A	
310-267065-3	MW-12	Total/NA	Water	9056A	
310-267065-4	MW-16	Total/NA	Water	9056A	
310-267065-5	MW-10	Total/NA	Water	9056A	
310-267065-6	MW-14	Total/NA	Water	9056A	
310-267065-7	Duplicate	Total/NA	Water	9056A	
310-267065-10	MW-11	Total/NA	Water	9056A	
310-267065-11	MW-13	Total/NA	Water	9056A	
MB 310-403563/3	Method Blank	Total/NA	Water	9056A	
LCS 310-403563/35	Lab Control Sample	Total/NA	Water	9056A	
310-267065-1 MS	MW-17	Total/NA	Water	9056A	
310-267065-1 MSD	MW-17	Total/NA	Water	9056A	

Metals

Analysis Batch: 403727

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-267065-1	MW-17	Dissolved	Water	6010D	
310-267065-2	MW-8	Dissolved	Water	6010D	
310-267065-3	MW-12	Dissolved	Water	6010D	
310-267065-4	MW-16	Dissolved	Water	6010D	
310-267065-5	MW-10	Dissolved	Water	6010D	
310-267065-6	MW-14	Dissolved	Water	6010D	
310-267065-7	Duplicate	Dissolved	Water	6010D	
310-267065-10	MW-11	Dissolved	Water	6010D	
310-267065-11	MW-13	Dissolved	Water	6010D	

Eurofins Cedar Falls

QC Association Summary

Client: Plymouth Co. Solid Waste
Project/Site: Plymouth County Landfill-Sept

Job ID: 310-267065-1

Metals (Continued)

Analysis Batch: 403727 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 310-403727/67	Method Blank	Total/NA	Water	6010D	
LCS 310-403727/68	Lab Control Sample	Total/NA	Water	6010D	
310-267065-1 DU	MW-17	Dissolved	Water	6010D	
310-267065-11 DU	MW-13	Dissolved	Water	6010D	

General Chemistry

Analysis Batch: 402394

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-267065-1	MW-17	Total/NA	Water	350.1	
310-267065-2	MW-8	Total/NA	Water	350.1	
310-267065-3	MW-12	Total/NA	Water	350.1	
310-267065-4	MW-16	Total/NA	Water	350.1	
310-267065-5	MW-10	Total/NA	Water	350.1	
310-267065-6	MW-14	Total/NA	Water	350.1	
310-267065-7	Duplicate	Total/NA	Water	350.1	
310-267065-10	MW-11	Total/NA	Water	350.1	
310-267065-11	MW-13	Total/NA	Water	350.1	
MB 310-402394/147	Method Blank	Total/NA	Water	350.1	
LCS 310-402394/148	Lab Control Sample	Total/NA	Water	350.1	

Analysis Batch: 402764

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-267065-1	MW-17	Total/NA	Water	5220D LL	
310-267065-2	MW-8	Total/NA	Water	5220D LL	
310-267065-3	MW-12	Total/NA	Water	5220D LL	
310-267065-4	MW-16	Total/NA	Water	5220D LL	
310-267065-5	MW-10	Total/NA	Water	5220D LL	
310-267065-6	MW-14	Total/NA	Water	5220D LL	
310-267065-7	Duplicate	Total/NA	Water	5220D LL	
310-267065-10	MW-11	Total/NA	Water	5220D LL	
310-267065-11	MW-13	Total/NA	Water	5220D LL	
MB 310-402764/33	Method Blank	Total/NA	Water	5220D LL	
LCS 310-402764/34	Lab Control Sample	Total/NA	Water	5220D LL	

Lab Chronicle

Client: Plymouth Co. Solid Waste
Project/Site: Plymouth County Landfill-Sept

Job ID: 310-267065-1

Client Sample ID: MW-17

Lab Sample ID: 310-267065-1

Date Collected: 10/11/23 08:24

Matrix: Water

Date Received: 10/12/23 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	402450	WSE8	EET CF	10/13/23 14:19
Total/NA	Analysis	9056A		5	403563	QTZ5	EET CF	10/23/23 17:24
Dissolved	Analysis	6010D		1	403727	ZRI4	EET CF	10/24/23 17:21
Total/NA	Analysis	350.1		1	402394	ZJX4	EET CF	10/12/23 23:03
Total/NA	Analysis	5220D LL		1	402764	ENB7	EET CF	10/17/23 09:57

Client Sample ID: MW-8

Lab Sample ID: 310-267065-2

Date Collected: 10/11/23 09:00

Matrix: Water

Date Received: 10/12/23 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	402450	WSE8	EET CF	10/13/23 13:56
Total/NA	Analysis	9056A		5	403563	QTZ5	EET CF	10/23/23 18:07
Dissolved	Analysis	6010D		1	403727	ZRI4	EET CF	10/24/23 17:25
Total/NA	Analysis	350.1		1	402394	ZJX4	EET CF	10/12/23 23:05
Total/NA	Analysis	5220D LL		1	402764	ENB7	EET CF	10/17/23 09:57

Client Sample ID: MW-12

Lab Sample ID: 310-267065-3

Date Collected: 10/11/23 10:33

Matrix: Water

Date Received: 10/12/23 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	402450	WSE8	EET CF	10/13/23 17:03
Total/NA	Analysis	9056A		5	403563	QTZ5	EET CF	10/23/23 18:22
Dissolved	Analysis	6010D		1	403727	ZRI4	EET CF	10/24/23 17:29
Total/NA	Analysis	350.1		1	402394	ZJX4	EET CF	10/12/23 23:05
Total/NA	Analysis	5220D LL		1	402764	ENB7	EET CF	10/17/23 09:57

Client Sample ID: MW-16

Lab Sample ID: 310-267065-4

Date Collected: 10/11/23 08:07

Matrix: Water

Date Received: 10/12/23 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	402450	WSE8	EET CF	10/13/23 14:43
Total/NA	Analysis	9056A		5	403563	QTZ5	EET CF	10/23/23 18:37
Dissolved	Analysis	6010D		1	403727	ZRI4	EET CF	10/24/23 17:31
Total/NA	Analysis	350.1		1	402394	ZJX4	EET CF	10/12/23 23:08
Total/NA	Analysis	5220D LL		1	402764	ENB7	EET CF	10/17/23 09:57

Lab Chronicle

Client: Plymouth Co. Solid Waste
Project/Site: Plymouth County Landfill-Sept

Job ID: 310-267065-1

Client Sample ID: MW-10

Lab Sample ID: 310-267065-5

Date Collected: 10/11/23 09:42

Matrix: Water

Date Received: 10/12/23 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	402450	WSE8	EET CF	10/13/23 16:40
Total/NA	Analysis	9056A		5	403563	QTZ5	EET CF	10/23/23 18:51
Dissolved	Analysis	6010D		1	403727	ZRI4	EET CF	10/24/23 17:37
Total/NA	Analysis	350.1		1	402394	ZJX4	EET CF	10/12/23 23:08
Total/NA	Analysis	5220D LL		1	402764	ENB7	EET CF	10/17/23 09:57

Client Sample ID: MW-14

Lab Sample ID: 310-267065-6

Date Collected: 10/11/23 10:07

Matrix: Water

Date Received: 10/12/23 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	402450	WSE8	EET CF	10/13/23 15:06
Total/NA	Analysis	9056A		5	403563	QTZ5	EET CF	10/23/23 19:06
Dissolved	Analysis	6010D		1	403727	ZRI4	EET CF	10/24/23 17:39
Total/NA	Analysis	350.1		1	402394	ZJX4	EET CF	10/12/23 23:10
Total/NA	Analysis	5220D LL		1	402764	ENB7	EET CF	10/17/23 09:57

Client Sample ID: Duplicate

Lab Sample ID: 310-267065-7

Date Collected: 10/11/23 10:07

Matrix: Water

Date Received: 10/12/23 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	402450	WSE8	EET CF	10/13/23 16:16
Total/NA	Analysis	9056A		5	403563	QTZ5	EET CF	10/23/23 16:18
Dissolved	Analysis	6010D		1	403727	ZRI4	EET CF	10/24/23 17:41
Total/NA	Analysis	350.1		1	402394	ZJX4	EET CF	10/12/23 23:10
Total/NA	Analysis	5220D LL		1	402764	ENB7	EET CF	10/17/23 09:57

Client Sample ID: MW-7

Lab Sample ID: 310-267065-8

Date Collected: 10/11/23 08:48

Matrix: Water

Date Received: 10/12/23 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	402456	WSE8	EET CF	10/14/23 03:18

Client Sample ID: Trip Blank

Lab Sample ID: 310-267065-9

Date Collected: 10/11/23 00:00

Matrix: Water

Date Received: 10/12/23 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	402456	WSE8	EET CF	10/13/23 23:18

Eurofins Cedar Falls

Lab Chronicle

Client: Plymouth Co. Solid Waste
Project/Site: Plymouth County Landfill-Sept

Job ID: 310-267065-1

Client Sample ID: MW-11

Date Collected: 10/11/23 09:55

Date Received: 10/12/23 09:30

Lab Sample ID: 310-267065-10

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	403563	QTZ5	EET CF	10/23/23 20:04
Dissolved	Analysis	6010D		1	403727	ZRI4	EET CF	10/24/23 17:43
Total/NA	Analysis	350.1		1	402394	ZJX4	EET CF	10/12/23 23:11
Total/NA	Analysis	5220D LL		1	402764	ENB7	EET CF	10/17/23 09:57

Client Sample ID: MW-13

Date Collected: 10/11/23 09:25

Date Received: 10/12/23 09:30

Lab Sample ID: 310-267065-11

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9056A		5	403563	QTZ5	EET CF	10/23/23 20:19
Dissolved	Analysis	6010D		1	403727	ZRI4	EET CF	10/24/23 17:45
Total/NA	Analysis	350.1		1	402394	ZJX4	EET CF	10/12/23 23:12
Total/NA	Analysis	5220D LL		1	402764	ENB7	EET CF	10/17/23 09:57

Laboratory References:

EET CF = Eurofins Cedar Falls, 3019 Venture Way, Cedar Falls, IA 50613, TEL (319)277-2401

Accreditation/Certification Summary

Client: Plymouth Co. Solid Waste
Project/Site: Plymouth County Landfill-Sept

Job ID: 310-267065-1

Laboratory: Eurofins Cedar Falls

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Iowa	State	007	12-01-23

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

Method Summary

Client: Plymouth Co. Solid Waste
Project/Site: Plymouth County Landfill-Sept

Job ID: 310-267065-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET CF
9056A	Anions, Ion Chromatography	SW846	EET CF
6010D	Metals (ICP)	SW846	EET CF
350.1	Nitrogen, Ammonia	EPA	EET CF
5220D LL	COD	SM	EET CF
5030B	Purge and Trap	SW846	EET CF

Protocol References:

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CF = Eurofins Cedar Falls, 3019 Venture Way, Cedar Falls, IA 50613, TEL (319)277-2401



Environment Testing
America



310-267065 Chain of Custody

Cooler/Sample Receipt and Temperature Log Form

Client Information			
Client: <u>Plymouth</u>			
City/State:	CITY	STATE	Project:
		<u>FA</u>	
Receipt Information			
Date/Time Received:	DATE	TIME	Received By:
	<u>10/12/23</u>	<u>930</u>	<u>SL</u>
Delivery Type: ☐ UPS ☒ FedEx ☐ FedEx Ground ☐ US Mail ☐ Spee-Dee ☐ Lab Courier ☐ Lab Field Services ☐ Client Drop-off ☐ Other: _____			
Condition of Cooler/Containers			
Sample(s) received in Cooler?		☒ Yes ☐ No	If yes: Cooler ID: _____
Multiple Coolers?		☐ Yes ☒ No	If yes: Cooler # _____ of _____
Cooler Custody Seals Present?		☒ Yes ☐ No	If yes: Cooler custody seals intact? ☐ Yes ☐ No
Sample Custody Seals Present?		☐ Yes ☒ No	If yes: Sample custody seals intact? ☐ Yes ☐ No
Trip Blank Present?		☐ Yes ☒ No	If yes: Which VOA samples are in cooler? ↓
Temperature Record			
Coolant: ☒ Wet ice ☐ Blue ice ☐ Dry ice ☐ Other: _____ ☐ NONE			
Thermometer ID:		Correction Factor (°C):	
<u>P</u>		<u>D</u>	
Temp Blank Temperature - If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature			
Uncorrected Temp (°C):		Corrected Temp (°C):	
<u>4.6</u>		<u>4.6</u>	
Sample Container Temperature			
Container(s) used:	CONTAINER 1		CONTAINER 2
Uncorrected Temp (°C):			
Corrected Temp (°C):			
Exceptions Noted			
1) If temperature exceeds criteria, was sample(s) received same day of sampling? ☐ Yes ☐ No a) If yes: Is there evidence that the chilling process began? ☐ Yes ☐ No			
2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) ☐ Yes ☐ No			
NOTE: If yes, contact PM before proceeding. If no, proceed with login			
Additional Comments			

Eurofins Cedar Falls

3019 Venture Way

Cedar Falls, IA 50613

Phone (319) 277-2401 Phone (319) 277-2425

Chain of Custody Record

DSM 214



Environment Testing

Client Information		Sampler: <i>Kent Herbald</i>		Lab PM: <i>Liechti, Meredith L</i>		Carrier Tracking No(s):		GOC No: 310-84357-23524 2	
Client Contact: <i>Kent Herbald</i>		Phone: <i>712 260-2395</i>		E-Mail: <i>meredith.liechti@eurofins.us</i>		State of Origin:		Page: Page 2 of 2	
Company: <i>Plymouth Co. Solid Waste</i>		PWSID:		Analysis Requested		Job #:		Preservation Codes:	
Address: <i>34898 150th Street</i>		Due Date Requested:		TAT Requested (days):		Compliance Project: Δ Yes Δ No		M - Hexane A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO ₄ F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:	
City: <i>LeMars</i>		Purchase Order not required		PO #:		WO #:		N - None O - AsNaO ₂ P - Na ₂ O ₄ S Q - Na ₂ SO ₃ R - Na ₂ SO ₃ S - H ₂ SO ₄ T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Y - Trizma Z - other (specify)	
Email: <i>kherbold@co.plymouth.ia.us</i>		Project #:		31002859		SSOW#:		Total Number of containers	
Project Name: <i>Plymouth County Landfill-Sept</i>		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)		Matrix (W=water, S=solid, O=other)	
Site:		10-11		9:25		G		Water	
Sample Identification		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)		Matrix (W=water, S=solid, O=other)	
MW-13		10-11		9:25		G		Water	
Special Instructions/Note:		Perform MS/MSD (Yes or No)		Field Filtered Sample (Yes or No)		8260D - (MOD) Volatile Custom Sublist		9056A_ORGFM_28D - Chloride	
350.1, 6220D_LL		A		D		N		S	
6010D - Dissolved Iron		X		X		X		X	
Special Instructions/Note:		Return To Client		Disposal By Lab		Archive For		Months	
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		Return To Client		Disposal By Lab		Archive For		Months	
Deliverable Requested 1, II, III, IV, Other (specify)		Special Instructions/QC Requirements:		Special Instructions/QC Requirements:		Special Instructions/QC Requirements:		Special Instructions/QC Requirements:	
Empty Kit Relinquished by		Date:		Time:		Method of Shipment:		Company	
Relinquished by		Date/Time:		Company		Received by:		Date/Time:	
Relinquished by		Date/Time:		Company		Received by:		Date/Time:	
Relinquished by		Date/Time:		Company		Received by:		Date/Time:	
Custody Seals Intact: Δ Yes Δ No		Custody Seal No		Cooler Temperature(s) °C and Other Remarks:		10/12/23 930		SL	

Ver 01/16/2019

LANDFILL GROUNDWATER SAMPLING DATA SHEET

Project Information

Project Name	Plymouth County Sanitary Landfill
Project Location	LeMars, IA
Project Number	PCSWA-18001
SLF Permit No.	75-SDP-04-74P

Sampling Information

Date Sampled	10/11/2023
Sampling Crew	Kent/Brayden
Equipment	GeoTech
Water Level	Oakton
pH/Conductivity	10/10/2023
Equipment Calibration Date	2:30
Equipment Calibration Time	

Weather Conditions

Recorded Depth	Well#	Date	Static Water Level	Measured Well Depth	Purge Time Start	Purge Time Finish	Bailing Equipment (see note)	Purge Volume Gal	Stabilized pH	Stabilized Conductivity	Stabilized Temperature	Methane Gas	Capped Property Y / N
32.7	MW-7	10/11/2023	27.6	32.9	8:48	8:49	P	2	7.36	1647	12	0%	Yes
27.6	MW-8	10/11/2023	24.1	27.8	9:00	N/A	P	3.7	7.27	1393	11.8	0%	Yes
25.5	MW-9	10/11/2023	24.8	25.3	N/A	N/A	N/A	0.2	N/A	N/A	N/A	0%	Yes
32.8	MW-10	10/11/2023	31.2	32.6	9:42	9:43	P	0.5	7.3	1394	11.1	0%	Yes
39	MW-11	10/11/2023	31.6	39.1	9:55	9:56	P	3	7.01	1300	11.2	0%	Yes
53.6	MW-12	10/11/2023	45.6	53.6	10:33	10:35	P	3.2	6.54	1422	13.3	0%	Yes
36.56	MW-13	10/11/2023	27.5	36.5	9:25	9:27	P	3.6	6.87	990	10.8	100%	Yes
50.16	MW-14	10/11/2023	45.7	50.9	10:07	N/A	P	2	6.62	1600	12.9	0%	Yes
37.3	MW-16	10/11/2023	31.7	37.4	8:07	N/A	P	2.25	6.99	1432	10.4	0%	Yes
32.6	MW-17	10/11/2023	21.9	31.9	8:24	N/A	P	4	7.45	827	10.3	0%	Yes

Note: Low-Flow Pump (LF), Submersible (S), Per Pump (P), Waterra (W), Dedicated Bailer (DB), Bailer (B)

Mw-16 Well did not purge not enough water
 MW-17 Purged 2 gallons went dry
 MW-8 Purged 2 gallons went dry
 MW-14 Purged 1 gallon went dry

Login Sample Receipt Checklist

Client: Plymouth Co. Solid Waste

Job Number: 310-267065-1

SDG Number:

Login Number: 267065

List Number: 1

Creator: Homolar, Dana J

List Source: Eurofins Cedar Falls

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

APPENDIX C

Statistical Report

Results of the Ground Water Statistics for Plymouth County Sanitary Landfill

Semi-Annual Monitoring Events in 2023

Prepared for:
Plymouth County Solid Waste Agency
LeMars, IA

Prepared by:
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Elgin, IL 60124
(847) 464-1355

November 2023

INTRODUCTION

This report contains the results of the statistical analyses used to evaluate the ground water data obtained during the semi-annual monitoring events in 2023 at the Plymouth County Sanitary Landfill. The ground water at the Plymouth County Sanitary Landfill is monitored by a network of wells including MW-10, MW-11, MW-12, MW-13, MW-14, MW-16, MW-17, MW-7, MW-8, and MW-9. Monitoring wells MW-10, MW-11, MW-12, MW-13, MW-14, MW-16, MW-17, MW-7, and MW-8 were sampled on May 3, 2023 and October 11, 2023 and analyzed for the parameters required by permit. The statistical plan is designed to detect a release from the facility at the earliest indication so that it is protective of human health and the environment. The interwell methodology is described and then applied to the Plymouth County Sanitary Landfill data. The statistical plan conforms with IAC 567, Chapter 113.10, USEPA Guidance document (*“Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities, Unified Guidance”*, March 2009), and the American Society for Testing and Materials (ASTM) standard D6312-98, *Developing Appropriate Statistical Approaches for Ground-Water Detection Monitoring Programs*.

Ground Water Monitoring Program

Each of the groundwater monitoring wells is to be sampled semi-annually and analyzed for select VOCs, iron, ammonia, COD, chloride, pH, and specific conductivity. TOX and phenols are monitored for annually. The ground water data obtained during the semi-annual monitoring events in 2023 are summarized in Attachment A.

STATISTICAL METHODOLOGIES FOR DETECTION MONITORING

IAC 567, Chapter 113.10(4) provides several options for statistically evaluating the ground water data. The preferred methods for comparing ground water data are using either prediction limits or using control charts. The site prediction limit method was applied to the Plymouth County Sanitary Landfill data using the DUMPStat® statistical program. DUMPStat® is a program for the statistical analysis of groundwater monitoring data using methods described in *“Statistical Methods for Groundwater Monitoring”* by Dr. Robert D. Gibbons. The DUMPStat program is completely consistent with all USEPA regulations and guidance and the ASTM D6312-98 guidance.

Interwell Statistics: Upgradient versus Downgradient Comparisons

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

nonparametric prediction limits will be used. If the detection frequency is 0% after thirteen samples have been collected, the practical quantitation limit (PQL) becomes the nonparametric prediction limit.

Results of the Interwell Statistics: First Semi-Annual Monitoring event in 2023

The background data used in this statistical analysis includes the ground water data collected from ground water well MW-17 during the period from 1997 through May 2023. A summary of the background data from monitoring well MW-17 is listed in Attachment B, Table 1 “Upgradient Data”. This statistical method compares the current downgradient determinations to site prediction limits and checks for exceedances.

Table 2 “Most Current Downgradient Monitoring Data”, summarizes the May 2023 data from wells MW-10, MW-11, MW-12, MW-13, MW-14, MW-16, and MW-8, compared to the site prediction limits. Prediction limit exceedances are flagged with asterisks. For the May 2023 data, the site prediction limit exceedances detected are summarized in the table below.

Prediction Limit Exceedances during the First Semi-Annual Monitoring Event in 2023

Well	Parameter	Result	Prediction Limit	Prediction Limit Type	Verified/ Awaiting verification
MW-10	COD, mg/L	26.6	21.2000	Nonparametric	Verified
	Chloride, mg/L	166	7.3000	Nonparametric	Verified
	Spec cond, µmhos/cm	1538	1188.9857	Normal	Verified
	TOX, µg/L	45.0	11.4000	Nonparametric	Verified
MW-11	Chloride, mg/L	25.1	7.3000	Nonparametric	Verified
	Spec cond, µmhos/cm	1259	1188.9857	Normal	Verified
MW-12	Chloride, mg/L	29.1	7.3000	Nonparametric	Verified
	Iron, µg/L	10800	100.0000	Nonparametric	Verified
	Spec cond, µmhos/cm	1481	1188.9857	Normal	Verified
	TOX, µg/L	47.0	11.4000	Nonparametric	Verified
MW-13	COD, mg/L	23.5	21.2000	Nonparametric	Awaiting verification
	Chloride, mg/L	73.0	7.3000	Nonparametric	Verified
	Iron, µg/L	1200	100.0000	Nonparametric	Verified
	Spec cond, µmhos/cm	1446	1188.9857	Normal	Awaiting verification
	TOX, µg/L	77.0	11.4000	Nonparametric	Awaiting verification
MW-14	COD, mg/L	29.6	21.2000	Nonparametric	Awaiting verification
	Chloride, mg/L	58.8	7.3000	Nonparametric	Verified
	Spec cond, µmhos/cm	1501	1188.9857	Normal	Verified
	TOX, µg/L	93.0	11.4000	Nonparametric	Verified
MW-16	Spec cond, µmhos/cm	1319	1188.9857	Normal	Awaiting verification
MW-8	Chloride, mg/L	12.9	7.3000	Nonparametric	Verified
	Spec cond, µmhos/cm	1390	1188.9857	Normal	Verified
	TOX, µg/L	65.0	11.4000	Nonparametric	Verified

The detection frequencies of the parameters in the up and down gradient monitoring wells are summarized in Table 3. Specific conductance and pH were detected at a frequency greater than or equal to 50% in the upgradient well so these parameters were tested for normality. The remainder of the parameters are rarely detected (less than 50%) in the upgradient well so nonparametric prediction limits were used in those cases. Table 4 summarizes the results of the Shapiro-Wilk test. Table 5 is a summary of the statistics and prediction limits determined. Table 8 is a historical summary of the data at those wells that have indicated an exceedance. Time series graphs of each of the parameters at each well with the corresponding prediction limits are attached.

A statistical power curve indicates the expected false assessments for the site as a whole. The false positive rate for interwell analyses is the percentage of failures when the upgradient versus downgradient true mean difference equals zero. False negative rate indicates the chance of missing contamination at a single well for a single constituent. The statistical power is a function of the number of wells included, the number of constituents compared, the detection frequencies, and the data distributions involved. For interwell analysis, the site-wide false positive rate is 2% and the test becomes sensitive to 3 standard deviation unit increases over background.

Volatile Organic Compounds

Volatile Organic Compounds (VOCs) are generally man-made compounds not present in ambient ground water. If VOCs are detected above their statistical limit (i.e., the laboratory PQL or reporting limit), a verification resample will be conducted at the next scheduled sampling event. A statistical exceedance will be indicated if the VOC detection is confirmed by the subsequent monitoring. The VOCs detected in the ground water during the first semi-annual monitoring event in 2023 are summarized in the table below.

VOCs detected during the First Semi-Annual Monitoring Event in 2023

Well	VOC Detected	Result, µg/L	Reporting Limit, µg/L	Verified/ Awaiting Verification	Ground Water Standard
MW-12	Benzene	1.27	0.5	Verified	5 ^a
	cis-1,2-Dichloroethene	31.9	1	Verified	70 ^a
	Vinyl chloride	4.19	1	Verified	2 ^a
MW-14	cis-1,2-Dichloroethene	36.6	1	Verified	70 ^a
MW-7	1,2-Dichloropropane	12.5	1	Verified	5 ^a
	Benzene	0.716	0.5	Verified	5 ^a
	cis-1,2-Dichloroethene	174	1	Verified	70 ^a
	Tetrachloroethene	2.67	1	Verified	5 ^a
	Trichloroethene	7.5	1	Verified	5 ^a
	Vinyl chloride	3.11	1	Verified	2 ^a
MW-8	1,2-Dichloropropane	1.16	1	Verified	5 ^a
	cis-1,2-Dichloroethene	53.8	1	Verified	70 ^a
	Trichloroethene	1.13	1	Verified	5 ^a
	Vinyl chloride	2.16	1	Verified	2 ^a

a - USEPA MCL, b - Iowa Statewide Standard

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

The 95% LCL for 1,2-dichloropropane at MW-7 (10.666 µg/L) exceeds the USEPA MCL of 5 µg/L.
The 95% LCL for *cis*-1,2-dichloroethene at MW-7 (134.960 µg/L) exceeds the USEPA MCL of 70 µg/L.
The 95% LCL for trichloroethene at MW-7 (5.063 µg/L) exceeds the USEPA MCL of 5 µg/L.
The remainder of the calculated LCLs do not exceed GWPS.

Results of the Interwell Statistics: Second Semi-Annual Monitoring event in 2023

The background data used in this statistical analysis includes the ground water data collected from ground water well MW-17 during the period from 1997 through October 2023. A summary of the background data from monitoring well MW-17 is listed in Attachment E, Table 1 “Upgradient Data”. This statistical method compares the current downgradient determinations to site prediction limits and checks for exceedances.

Table 2 “Most Current Downgradient Monitoring Data”, summarizes the October 2023 data from wells MW-10, MW-11, MW-12, MW-13, MW-14, MW-16, and MW-8, compared to the site prediction limits. Prediction limit exceedances are flagged with asterisks. For the October 2023 data, the site prediction limit exceedances detected are summarized in the table below.

Prediction Limit Exceedances during the Second Semi-Annual Monitoring Event in 2023

Well	Parameter	Result	Prediction Limit	Prediction Limit Type	Verified/ Awaiting verification
MW-10	COD, mg/L	40.9	21.2000	Nonparametric	Verified
	Chloride, mg/L	101	7.3000	Nonparametric	Verified
	Spec cond, µmhos/cm	1394	1188.4824	Normal	Verified
MW-11	Chloride, mg/L	55.4	7.3000	Nonparametric	Verified
	Spec cond, µmhos/cm	1300	1188.4824	Normal	Verified
MW-12	Chloride, mg/L	34.0	7.3000	Nonparametric	Verified
	Iron, µg/L	7290	100.0000	Nonparametric	Verified
	Spec cond, µmhos/cm	1422	1188.4824	Normal	Verified
MW-13	Chloride, mg/L	33.1	7.3000	Nonparametric	Verified
	Iron, µg/L	747	100.0000	Nonparametric	Verified
MW-14	COD, mg/L	42.6	21.2000	Nonparametric	Verified
	Chloride, mg/L	109	7.3000	Nonparametric	Verified
	Spec cond, µmhos/cm	1600	1188.4824	Normal	Verified
MW-16	COD, mg/L	28.7	21.2000	Nonparametric	Awaiting verification
	Chloride, mg/L	7.89	7.3000	Nonparametric	Awaiting verification
	Spec cond, µmhos/cm	1432	1188.4824	Normal	Verified
MW-8	Chloride, mg/L	12.7	7.3000	Nonparametric	Verified
	Spec cond, µmhos/cm	1393	1188.4824	Normal	Verified

The detection frequencies of the parameters in the up and down gradient monitoring wells are summarized in Table 3. Specific conductance and pH were detected at a frequency greater than or equal to 50% in the upgradient well so these parameters were tested for normality. The remainder of the parameters are rarely detected (less than 50%) in the upgradient well so nonparametric prediction limits were used in those cases. Table 4 summarizes the results of the Shapiro-Wilk test. Table 5 is a summary of the statistics and prediction limits determined. Table 8 is a historical summary of the data at those wells that have indicated an exceedance. Time series graphs of each of the parameters at each well with the corresponding prediction limits are attached.

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

Volatile Organic Compounds

The VOCs detected in the ground water during the second semi-annual monitoring event in 2023 are summarized in the table below.

VOCs detected during the Second Semi-Annual Monitoring Event in 2023

Well	VOC Detected	Result, µg/L	Reporting Limit, µg/L	Verified/ Awaiting Verification	Ground Water Standard
MW-12	Benzene	1.16	0.5	Verified	5 ^a
	<i>cis</i> -1,2-Dichloroethene	31.3	1	Verified	70 ^a
	Vinyl chloride	3.56	1	Verified	2 ^a
MW-14	<i>cis</i> -1,2-Dichloroethene	41.6	1	Verified	70 ^a
MW-7	1,2-Dichloroethane	1.29	1	Awaiting Verification	5 ^a
	1,2-Dichloropropane	12.9	1	Verified	5 ^a
	Benzene	0.878	0.5	Verified	5 ^a
	<i>cis</i> -1,2-Dichloroethene	203	1	Verified	70 ^a
	Tetrachloroethene	1.75	1	Verified	5 ^a
	Trichloroethene	9.37	1	Verified	5 ^a
	Vinyl chloride	4.28	1	Verified	2 ^a
MW-8	<i>cis</i> -1,2-Dichloroethene	45.7	1	Verified	70 ^a
	Vinyl chloride	1.03	1	Verified	2 ^a

a - USEPA MCL, b – Iowa Statewide Standard

The VOC detections were evaluated against the ground water protection standards (GWPS) using confidence limits (Attachment F).

The 95% LCL for 1,2-dichloropropane at MW-7 (10.764 µg/L) exceeds the USEPA MCL of 5 µg/L.
The 95% LCL for *cis*-1,2-dichloroethene at MW-7 (145.818 µg/L) exceeds the USEPA MCL of 70 µg/L.
The 95% LCL for trichloroethene at MW-7 (5.990 µg/L) exceeds the USEPA MCL of 5 µg/L.
The remainder of the calculated LCLs do not exceed GWPS.

Attachment A

Ground Water Data obtained during the First and Second Semi-Annual Monitoring Events in 2023

Table 1

Analytical Data Summary for 5/3/2023

Constituents	Units	MW-10	MW-11	MW-12	MW-13	MW-14	MW-16	MW-17	MW-7	MW-8
1,2-Dichloropropane	ug/L	<1.00		<1.00		<1.00	<1.00	<1.00	12.50	1.16
Ammonia as N	mg/L	<.2	<.2	<.2	<.2	<.2	<.2	<.2		<.2
Benzene	ug/L	<.500		1.270		<.500	<.500	<.500	.716	<.500
Chemical Oxygen Demand	mg/L	26.6	8.4	15.5	23.5	29.6	12.1	10.8		16.5
Chloride	mg/L	166.00	25.10	29.10	73.00	58.80	6.95	<5.00		12.90
cis-1,2-Dichloroethene	ug/L	<1.0		31.9		36.6	<1.0	<1.0	174.0	53.8
Iron, Dissolved	ug/L	<500	<500	10800	1200	<500	<500	<500		<500
Methylene Chloride	ug/L	<5		<5		<5	<5	<5	<5	<5
pH	S.U.	6.91	6.75	6.57	6.93	6.64	7.06	6.47	6.66	6.95
Phenols	mg/L	<.020	<.020	<.022	<.020	<.020	<.020	<.020		<.020
Specific Conductance	umhos/cm	1538	1259	1481	1446	1501	1319	1326	1713	1390
Tetrachloroethene	ug/L	<1.00		<1.00		<1.00	<1.00	<1.00	2.67	<1.00
Total Organic Halogens	ug/L	45	<10	47	77	93	<10	<10		65
Trichloroethene	ug/L	<1.00		<1.00		<1.00	<1.00	<1.00	7.50	1.13
Vinyl Chloride	ug/L	<1.00		4.19		<1.00	<1.00	<1.00	3.11	2.16
Water Temperature	Degrees C	12.4	13.5	15.0	12.1	14.5	11.4	11.7	12.9	12.8

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

Table 2

Analytical Data Summary for 10/11/2023

Constituents	Units	MW-10	MW-11	MW-12	MW-13	MW-14	MW-16	MW-17	MW-7	MW-8
1,1,1-Trichloroethane	ug/L	<1		<1		<1	<1	<1	<1	<1
1,2-Dichloroethane	ug/L	<1.00		<1.00		<1.00	<1.00	<1.00	1.29	<1.00
1,2-Dichloropropane	ug/L	<1.0		<1.0		<1.0	<1.0	<1.0	12.9	<1.0
Ammonia as N	mg/L	<.2	<.2	<.2	<.2	<.2	<.2	<.2		<.2
Benzene	ug/L	<.500		1.160		<.500	<.500	<.500	.878	<.500
Chemical Oxygen Demand	mg/L	40.90	9.48	20.30	20.30	42.60	28.70	7.45		14.20
Chloride	mg/L	101.00	55.40	34.00	33.10	109.00	7.89	<5.00		12.70
Chlorodibromomethane	ug/L	<5		<5		<5	<5	<5	<5	<5
cis-1,2-Dichloroethene	ug/L	<1.0		31.3		41.6	<1.0	<1.0	203.0	45.7
Iron, Dissolved	ug/L	<500	<500	7290	747	<500	<500	<500		<500
Methylene Chloride	ug/L	<5		<5		<5	<5	<5	<5	<5
pH	S.U.	7.30	7.01	6.54	6.87	6.62	6.99	7.45	7.36	7.27
Specific Conductance	umhos/cm	1394	1300	1422	990	1600	1432	827	1647	1393
Tetrachloroethene	ug/L	<1.00		<1.00		<1.00	<1.00	<1.00	1.75	<1.00
Trichloroethene	ug/L	<1.00		<1.00		<1.00	<1.00	<1.00	9.37	<1.00
Vinyl Chloride	ug/L	<1.00		3.56		<1.00	<1.00	<1.00	4.28	1.03
Water Temperature	Degrees C	11.1	11.2	13.3	10.8	12.9	10.4	10.3	12.0	11.8

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

Attachment B

Summary Tables and Graphs for the Interwell Comparisons
First Semi-Annual Monitoring Event in 2023

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Ammonia as N	mg/L	MW-17	11/10/1997	ND	0.2000		
Ammonia as N	mg/L	MW-17	01/08/1998	ND	0.2000		
Ammonia as N	mg/L	MW-17	04/22/1998	ND	0.2000		
Ammonia as N	mg/L	MW-17	07/01/1998	ND	0.2000		
Ammonia as N	mg/L	MW-17	10/19/1998	ND	0.2000		
Ammonia as N	mg/L	MW-17	04/30/1999	ND	0.2000		
Ammonia as N	mg/L	MW-17	09/01/1999	ND	0.2000		
Ammonia as N	mg/L	MW-17	04/12/2000	ND	0.2000		
Ammonia as N	mg/L	MW-17	10/17/2000	ND	0.2000		
Ammonia as N	mg/L	MW-17	04/25/2001	ND	0.2000		
Ammonia as N	mg/L	MW-17	10/23/2001	ND	0.2000		
Ammonia as N	mg/L	MW-17	04/28/2002	ND	0.2000		
Ammonia as N	mg/L	MW-17	10/06/2002	ND	0.2000		
Ammonia as N	mg/L	MW-17	04/03/2003	ND	0.2000		
Ammonia as N	mg/L	MW-17	10/07/2003	ND	0.2000		
Ammonia as N	mg/L	MW-17	04/30/2004	ND	0.2000		
Ammonia as N	mg/L	MW-17	10/12/2004	ND	0.2000		
Ammonia as N	mg/L	MW-17	04/26/2005	ND	0.2000		
Ammonia as N	mg/L	MW-17	10/11/2005	ND	0.2000		
Ammonia as N	mg/L	MW-17	04/26/2006	ND	0.2000		
Ammonia as N	mg/L	MW-17	10/05/2006	ND	0.2000		
Ammonia as N	mg/L	MW-17	04/23/2007	ND	0.2000		
Ammonia as N	mg/L	MW-17	10/09/2007	ND	0.2000		
Ammonia as N	mg/L	MW-17	04/07/2008	ND	0.2000		
Ammonia as N	mg/L	MW-17	10/14/2008	ND	0.2000		
Ammonia as N	mg/L	MW-17	04/07/2009	ND	0.2000		
Ammonia as N	mg/L	MW-17	10/05/2009	ND	0.2000		
Ammonia as N	mg/L	MW-17	04/01/2010	ND	0.2000		
Ammonia as N	mg/L	MW-17	10/01/2010	ND	0.2000		
Ammonia as N	mg/L	MW-17	04/07/2011	ND	0.2000		
Ammonia as N	mg/L	MW-17	10/27/2011	ND	0.2000		
Ammonia as N	mg/L	MW-17	04/23/2012	ND	0.2000		
Ammonia as N	mg/L	MW-17	10/23/2012	ND	0.2000		
Ammonia as N	mg/L	MW-17	04/16/2013	ND	0.2000		
Ammonia as N	mg/L	MW-17	10/28/2013	ND	0.2000		
Ammonia as N	mg/L	MW-17	04/24/2014	ND	0.2000		
Ammonia as N	mg/L	MW-17	10/06/2014	ND	0.2000		
Ammonia as N	mg/L	MW-17	04/21/2015	ND	0.2000		
Ammonia as N	mg/L	MW-17	10/05/2015	ND	0.2000		
Ammonia as N	mg/L	MW-17	04/26/2016	ND	0.2000		
Ammonia as N	mg/L	MW-17	10/05/2016	ND	0.2000		
Ammonia as N	mg/L	MW-17	04/04/2017	ND	0.2000		
Ammonia as N	mg/L	MW-17	10/10/2017	ND	0.2000		
Ammonia as N	mg/L	MW-17	04/11/2018	ND	0.2000		
Ammonia as N	mg/L	MW-17	10/30/2018	ND	0.2000		
Ammonia as N	mg/L	MW-17	04/01/2019	ND	0.2000		
Ammonia as N	mg/L	MW-17	10/08/2019	ND	0.2000		
Ammonia as N	mg/L	MW-17	04/20/2020	ND	0.2000		
Ammonia as N	mg/L	MW-17	10/20/2020	ND	0.2000		
Ammonia as N	mg/L	MW-17	04/26/2021	ND	0.2000		
Ammonia as N	mg/L	MW-17	08/16/2021	ND	0.2000		
Ammonia as N	mg/L	MW-17	06/01/2022	ND	0.2000		
Ammonia as N	mg/L	MW-17	10/03/2022	ND	0.2000		
Ammonia as N	mg/L	MW-17	05/03/2023	ND	0.2000		
Chemical Oxygen Demand	mg/L	MW-17	11/10/1997	ND	5.0000		
Chemical Oxygen Demand	mg/L	MW-17	01/08/1998	ND	5.0000		
Chemical Oxygen Demand	mg/L	MW-17	04/22/1998	ND	5.0000		
Chemical Oxygen Demand	mg/L	MW-17	07/01/1998	ND	5.0000		
Chemical Oxygen Demand	mg/L	MW-17	10/19/1998	ND	5.0000		
Chemical Oxygen Demand	mg/L	MW-17	04/30/1999	ND	5.0000		
Chemical Oxygen Demand	mg/L	MW-17	09/01/1999	ND	5.0000		
Chemical Oxygen Demand	mg/L	MW-17	04/12/2000	ND	5.0000		
Chemical Oxygen Demand	mg/L	MW-17	10/17/2000	ND	5.0000		
Chemical Oxygen Demand	mg/L	MW-17	04/25/2001	ND	5.0000		
Chemical Oxygen Demand	mg/L	MW-17	10/23/2001	ND	5.0000		
Chemical Oxygen Demand	mg/L	MW-17	04/28/2002	ND	5.0000		
Chemical Oxygen Demand	mg/L	MW-17	10/06/2002		11.0000		
Chemical Oxygen Demand	mg/L	MW-17	04/03/2003		7.5000		
Chemical Oxygen Demand	mg/L	MW-17	10/07/2003	ND	5.0000		
Chemical Oxygen Demand	mg/L	MW-17	04/30/2004	ND	5.0000		
Chemical Oxygen Demand	mg/L	MW-17	10/12/2004	ND	5.0000		
Chemical Oxygen Demand	mg/L	MW-17	04/26/2005	ND	5.0000		
Chemical Oxygen Demand	mg/L	MW-17	10/11/2005	ND	5.0000		
Chemical Oxygen Demand	mg/L	MW-17	04/26/2006	ND	5.0000		

* - Outlier for that well and constituent.

** - ND value replaced with median RL.

*** - ND value replaced with manual RL.

ND = Not detected, Result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Chemical Oxygen Demand	mg/L	MW-17	10/05/2006		8.4000		
Chemical Oxygen Demand	mg/L	MW-17	04/23/2007		10.6000		
Chemical Oxygen Demand	mg/L	MW-17	10/09/2007	ND	5.0000		
Chemical Oxygen Demand	mg/L	MW-17	04/07/2008	ND	5.0000		
Chemical Oxygen Demand	mg/L	MW-17	10/14/2008	ND	5.0000		
Chemical Oxygen Demand	mg/L	MW-17	04/07/2009	ND	5.0000		
Chemical Oxygen Demand	mg/L	MW-17	10/05/2009	ND	5.0000		
Chemical Oxygen Demand	mg/L	MW-17	04/01/2010	ND	5.0000		
Chemical Oxygen Demand	mg/L	MW-17	10/01/2010	ND	5.0000		
Chemical Oxygen Demand	mg/L	MW-17	04/07/2011	ND	5.0000		
Chemical Oxygen Demand	mg/L	MW-17	10/27/2011		14.3000		
Chemical Oxygen Demand	mg/L	MW-17	04/23/2012	ND	5.0000		
Chemical Oxygen Demand	mg/L	MW-17	10/23/2012	ND	5.0000		
Chemical Oxygen Demand	mg/L	MW-17	04/16/2013	ND	5.0000		
Chemical Oxygen Demand	mg/L	MW-17	10/28/2013	ND	5.0000		
Chemical Oxygen Demand	mg/L	MW-17	04/24/2014	ND	5.0000		
Chemical Oxygen Demand	mg/L	MW-17	10/06/2014	ND	5.0000		
Chemical Oxygen Demand	mg/L	MW-17	04/21/2015	ND	5.0000		
Chemical Oxygen Demand	mg/L	MW-17	10/05/2015	ND	5.0000		
Chemical Oxygen Demand	mg/L	MW-17	04/26/2016	ND	5.0000		
Chemical Oxygen Demand	mg/L	MW-17	10/05/2016	ND	5.0000		
Chemical Oxygen Demand	mg/L	MW-17	04/04/2017	ND	5.0000		
Chemical Oxygen Demand	mg/L	MW-17	10/10/2017	ND	25.0000	5.0000	**
Chemical Oxygen Demand	mg/L	MW-17	04/11/2018	ND	5.0000		
Chemical Oxygen Demand	mg/L	MW-17	10/30/2018	ND	5.0000		
Chemical Oxygen Demand	mg/L	MW-17	04/01/2019		5.3600		
Chemical Oxygen Demand	mg/L	MW-17	10/08/2019	ND	5.0000		
Chemical Oxygen Demand	mg/L	MW-17	04/20/2020	ND	5.0000		
Chemical Oxygen Demand	mg/L	MW-17	10/20/2020		5.3000		
Chemical Oxygen Demand	mg/L	MW-17	04/26/2021		7.4000		
Chemical Oxygen Demand	mg/L	MW-17	08/16/2021		5.7300		
Chemical Oxygen Demand	mg/L	MW-17	06/01/2022		21.2000		
Chemical Oxygen Demand	mg/L	MW-17	10/03/2022	ND	5.0000		
Chemical Oxygen Demand	mg/L	MW-17	05/03/2023		10.8000		
Chloride	mg/L	MW-17	11/10/1997	ND	5.0000		
Chloride	mg/L	MW-17	01/08/1998	ND	5.0000		
Chloride	mg/L	MW-17	04/22/1998	ND	5.0000		
Chloride	mg/L	MW-17	07/01/1998		7.3000		
Chloride	mg/L	MW-17	10/19/1998	ND	5.0000		
Chloride	mg/L	MW-17	04/30/1999	ND	5.0000		
Chloride	mg/L	MW-17	09/01/1999	ND	5.0000		
Chloride	mg/L	MW-17	04/12/2000	ND	5.0000		
Chloride	mg/L	MW-17	10/17/2000	ND	5.0000		
Chloride	mg/L	MW-17	04/25/2001	ND	5.0000		
Chloride	mg/L	MW-17	10/23/2001	ND	5.0000		
Chloride	mg/L	MW-17	04/28/2002	ND	5.0000		
Chloride	mg/L	MW-17	10/06/2002	ND	5.0000		
Chloride	mg/L	MW-17	04/03/2003	ND	5.0000		
Chloride	mg/L	MW-17	10/07/2003	ND	5.0000		
Chloride	mg/L	MW-17	04/30/2004	ND	5.0000		
Chloride	mg/L	MW-17	10/12/2004	ND	5.0000		
Chloride	mg/L	MW-17	04/26/2005	ND	5.0000		
Chloride	mg/L	MW-17	10/11/2005	ND	5.0000		
Chloride	mg/L	MW-17	04/26/2006	ND	5.0000		
Chloride	mg/L	MW-17	10/05/2006	ND	5.0000		
Chloride	mg/L	MW-17	04/23/2007	ND	5.0000		
Chloride	mg/L	MW-17	10/09/2007	ND	5.0000		
Chloride	mg/L	MW-17	04/07/2008	ND	5.0000		
Chloride	mg/L	MW-17	10/14/2008	ND	5.0000		
Chloride	mg/L	MW-17	04/07/2009	ND	5.0000		
Chloride	mg/L	MW-17	10/05/2009	ND	5.0000		
Chloride	mg/L	MW-17	04/01/2010	ND	5.0000		
Chloride	mg/L	MW-17	10/01/2010	ND	5.0000		
Chloride	mg/L	MW-17	04/07/2011	ND	5.0000		
Chloride	mg/L	MW-17	10/27/2011	ND	5.0000		
Chloride	mg/L	MW-17	04/23/2012	ND	5.0000		
Chloride	mg/L	MW-17	10/23/2012	ND	5.0000		
Chloride	mg/L	MW-17	04/16/2013	ND	2.0000	5.0000	**
Chloride	mg/L	MW-17	10/28/2013	ND	5.0000		
Chloride	mg/L	MW-17	04/24/2014		1.6500		
Chloride	mg/L	MW-17	10/06/2014		1.6600		
Chloride	mg/L	MW-17	04/21/2015	ND	5.0000		
Chloride	mg/L	MW-17	10/05/2015	ND	5.0000		
Chloride	mg/L	MW-17	04/26/2016	ND	5.0000		

* - Outlier for that well and constituent.

** - ND value replaced with median RL.

*** - ND value replaced with manual RL.

ND = Not detected, Result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Chloride	mg/L	MW-17	10/05/2016	ND	5.0000		
Chloride	mg/L	MW-17	04/04/2017	ND	5.0000		
Chloride	mg/L	MW-17	10/10/2017	ND	5.0000		
Chloride	mg/L	MW-17	04/11/2018	ND	5.0000		
Chloride	mg/L	MW-17	10/30/2018		6.4700		
Chloride	mg/L	MW-17	04/01/2019	ND	5.0000		
Chloride	mg/L	MW-17	10/08/2019	ND	5.0000		
Chloride	mg/L	MW-17	04/20/2020	ND	5.0000		
Chloride	mg/L	MW-17	10/20/2020	ND	5.0000		
Chloride	mg/L	MW-17	04/26/2021	ND	5.0000		
Chloride	mg/L	MW-17	08/16/2021	ND	5.0000		
Chloride	mg/L	MW-17	06/01/2022	ND	5.0000		
Chloride	mg/L	MW-17	10/03/2022	ND	5.0000		
Chloride	mg/L	MW-17	05/03/2023	ND	5.0000		
Iron, Dissolved	ug/L	MW-17	11/10/1997	ND	100.0000		
Iron, Dissolved	ug/L	MW-17	01/08/1998	ND	100.0000		
Iron, Dissolved	ug/L	MW-17	04/22/1998	ND	100.0000		
Iron, Dissolved	ug/L	MW-17	07/01/1998	ND	100.0000		
Iron, Dissolved	ug/L	MW-17	10/19/1998	ND	100.0000		
Iron, Dissolved	ug/L	MW-17	04/30/1999	ND	100.0000		
Iron, Dissolved	ug/L	MW-17	09/01/1999	ND	100.0000		
Iron, Dissolved	ug/L	MW-17	04/12/2000	ND	100.0000		
Iron, Dissolved	ug/L	MW-17	10/17/2000	ND	100.0000		
Iron, Dissolved	ug/L	MW-17	04/25/2001	ND	100.0000		
Iron, Dissolved	ug/L	MW-17	10/23/2001	ND	100.0000		
Iron, Dissolved	ug/L	MW-17	04/28/2002	ND	100.0000		
Iron, Dissolved	ug/L	MW-17	10/06/2002	ND	100.0000		
Iron, Dissolved	ug/L	MW-17	04/03/2003	ND	100.0000		
Iron, Dissolved	ug/L	MW-17	10/07/2003	ND	100.0000		
Iron, Dissolved	ug/L	MW-17	04/30/2004	ND	100.0000		
Iron, Dissolved	ug/L	MW-17	10/12/2004	ND	100.0000		
Iron, Dissolved	ug/L	MW-17	04/26/2005	ND	100.0000		
Iron, Dissolved	ug/L	MW-17	10/11/2005	ND	100.0000		
Iron, Dissolved	ug/L	MW-17	04/26/2006	ND	100.0000		
Iron, Dissolved	ug/L	MW-17	10/05/2006	ND	100.0000		
Iron, Dissolved	ug/L	MW-17	04/23/2007	ND	100.0000		
Iron, Dissolved	ug/L	MW-17	10/09/2007	ND	100.0000		
Iron, Dissolved	ug/L	MW-17	04/07/2008	ND	100.0000		
Iron, Dissolved	ug/L	MW-17	10/14/2008	ND	100.0000		
Iron, Dissolved	ug/L	MW-17	04/07/2009	ND	100.0000		
Iron, Dissolved	ug/L	MW-17	10/05/2009	ND	100.0000		
Iron, Dissolved	ug/L	MW-17	04/01/2010	ND	100.0000		
Iron, Dissolved	ug/L	MW-17	10/01/2010	ND	100.0000		
Iron, Dissolved	ug/L	MW-17	04/07/2011	ND	100.0000		
Iron, Dissolved	ug/L	MW-17	10/27/2011	ND	100.0000		
Iron, Dissolved	ug/L	MW-17	04/23/2012	ND	100.0000		
Iron, Dissolved	ug/L	MW-17	10/23/2012	ND	100.0000		
Iron, Dissolved	ug/L	MW-17	04/16/2013	ND	100.0000		
Iron, Dissolved	ug/L	MW-17	10/28/2013	ND	100.0000		
Iron, Dissolved	ug/L	MW-17	04/24/2014	ND	100.0000		
Iron, Dissolved	ug/L	MW-17	10/06/2014	ND	100.0000		
Iron, Dissolved	ug/L	MW-17	04/21/2015	ND	100.0000		
Iron, Dissolved	ug/L	MW-17	10/05/2015	ND	100.0000		
Iron, Dissolved	ug/L	MW-17	04/26/2016	ND	100.0000		
Iron, Dissolved	ug/L	MW-17	10/05/2016	ND	100.0000		
Iron, Dissolved	ug/L	MW-17	04/04/2017	ND	500.0000	100.0000	**
Iron, Dissolved	ug/L	MW-17	10/10/2017	ND	500.0000	100.0000	**
Iron, Dissolved	ug/L	MW-17	04/11/2018	ND	500.0000	100.0000	**
Iron, Dissolved	ug/L	MW-17	10/30/2018	ND	500.0000	100.0000	**
Iron, Dissolved	ug/L	MW-17	04/01/2019	ND	500.0000	100.0000	**
Iron, Dissolved	ug/L	MW-17	10/08/2019	ND	500.0000	100.0000	**
Iron, Dissolved	ug/L	MW-17	04/20/2020	ND	500.0000	100.0000	**
Iron, Dissolved	ug/L	MW-17	10/20/2020	ND	500.0000	100.0000	**
Iron, Dissolved	ug/L	MW-17	04/26/2021	ND	500.0000	100.0000	**
Iron, Dissolved	ug/L	MW-17	08/16/2021	ND	500.0000	100.0000	**
Iron, Dissolved	ug/L	MW-17	06/01/2022	ND	500.0000	100.0000	**
Iron, Dissolved	ug/L	MW-17	10/03/2022	ND	500.0000	100.0000	**
Iron, Dissolved	ug/L	MW-17	05/03/2023	ND	500.0000	100.0000	**
pH	S.U.	MW-17	04/22/1998		7.0000		
pH	S.U.	MW-17	07/01/1998		7.0000		
pH	S.U.	MW-17	10/19/1998		6.8000		
pH	S.U.	MW-17	04/30/1999		6.8000		
pH	S.U.	MW-17	09/01/1999		6.8000		
pH	S.U.	MW-17	04/12/2000		7.0000		

* - Outlier for that well and constituent.

** - ND value replaced with median RL.

*** - ND value replaced with manual RL.

ND = Not detected, Result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
pH	S.U.	MW-17	10/17/2000		5.1000		
pH	S.U.	MW-17	04/25/2001		7.5000		
pH	S.U.	MW-17	10/23/2001		7.5000		
pH	S.U.	MW-17	04/28/2002		6.9000		
pH	S.U.	MW-17	10/06/2002		7.4000		
pH	S.U.	MW-17	04/03/2003		7.3000		
pH	S.U.	MW-17	10/07/2003		7.6000		
pH	S.U.	MW-17	04/30/2004		6.9000		
pH	S.U.	MW-17	10/12/2004		7.2000		
pH	S.U.	MW-17	04/26/2005		7.2000		
pH	S.U.	MW-17	10/11/2005		7.4000		
pH	S.U.	MW-17	04/26/2006		7.2000		
pH	S.U.	MW-17	10/05/2006		7.4000		
pH	S.U.	MW-17	04/23/2007		7.2000		
pH	S.U.	MW-17	10/09/2007		7.2000		
pH	S.U.	MW-17	04/07/2008		7.1000		
pH	S.U.	MW-17	10/14/2008		7.3000		
pH	S.U.	MW-17	04/07/2009		6.9000		
pH	S.U.	MW-17	10/05/2009		7.2000		
pH	S.U.	MW-17	04/01/2010		7.3000		
pH	S.U.	MW-17	10/01/2010		7.1000		
pH	S.U.	MW-17	04/07/2011		7.2000		
pH	S.U.	MW-17	10/27/2011		7.1000		
pH	S.U.	MW-17	04/23/2012		7.1000		
pH	S.U.	MW-17	10/23/2012		7.1000		
pH	S.U.	MW-17	04/16/2013		7.3000		
pH	S.U.	MW-17	10/28/2013		7.4000		
pH	S.U.	MW-17	04/24/2014		7.2300		
pH	S.U.	MW-17	10/06/2014		7.2800		
pH	S.U.	MW-17	04/21/2015		6.9000		
pH	S.U.	MW-17	10/05/2015		7.2100		
pH	S.U.	MW-17	04/26/2016		7.0800		
pH	S.U.	MW-17	10/05/2016		7.0000		
pH	S.U.	MW-17	04/04/2017		7.2900		
pH	S.U.	MW-17	10/10/2017		7.1400		
pH	S.U.	MW-17	04/11/2018		7.0700		
pH	S.U.	MW-17	10/30/2018		6.7300		
pH	S.U.	MW-17	04/01/2019		7.0500		
pH	S.U.	MW-17	10/08/2019		7.0600		
pH	S.U.	MW-17	04/20/2020		7.3300		
pH	S.U.	MW-17	10/20/2020		7.5900		
pH	S.U.	MW-17	04/26/2021		7.6900		
pH	S.U.	MW-17	08/16/2021		7.3900		
pH	S.U.	MW-17	06/01/2022		7.0500		
pH	S.U.	MW-17	10/03/2022		7.5100		
pH	S.U.	MW-17	05/03/2023		6.4700		
Phenols	mg/L	MW-17	10/19/1998	ND	0.0200		
Phenols	mg/L	MW-17	09/01/1999	ND	0.0200		
Phenols	mg/L	MW-17	10/17/2000	ND	0.0200		
Phenols	mg/L	MW-17	10/23/2001	ND	0.0200		
Phenols	mg/L	MW-17	04/28/2002	ND	0.0200		
Phenols	mg/L	MW-17	10/06/2002	ND	0.0200		
Phenols	mg/L	MW-17	04/03/2003	ND	0.0200		
Phenols	mg/L	MW-17	04/30/2004	ND	0.0200		
Phenols	mg/L	MW-17	04/26/2005	ND	0.0200		
Phenols	mg/L	MW-17	04/23/2007	ND	0.0200		
Phenols	mg/L	MW-17	04/07/2009	ND	0.0180	0.0200	**
Phenols	mg/L	MW-17	04/01/2010	ND	0.0180	0.0200	**
Phenols	mg/L	MW-17	04/07/2011	ND	0.0180	0.0200	**
Phenols	mg/L	MW-17	04/23/2012	ND	0.0200		
Phenols	mg/L	MW-17	04/16/2013	ND	0.0196	0.0200	**
Phenols	mg/L	MW-17	04/24/2014	ND	0.0188	0.0200	**
Phenols	mg/L	MW-17	04/21/2015	ND	0.0184	0.0200	**
Phenols	mg/L	MW-17	04/26/2016	ND	0.0212	0.0200	**
Phenols	mg/L	MW-17	04/04/2017	ND	0.0180	0.0200	**
Phenols	mg/L	MW-17	04/11/2018	ND	0.0192	0.0200	**
Phenols	mg/L	MW-17	04/01/2019	ND	0.0200		
Phenols	mg/L	MW-17	04/20/2020	ND	0.0200		
Phenols	mg/L	MW-17	04/26/2021	ND	0.0184	0.0200	**
Phenols	mg/L	MW-17	06/01/2022	ND	0.0200		
Phenols	mg/L	MW-17	05/03/2023	ND	0.0200		
Specific Conductance	umhos/cm	MW-17	04/22/1998		408.0000		
Specific Conductance	umhos/cm	MW-17	07/01/1998		450.0000		
Specific Conductance	umhos/cm	MW-17	10/19/1998		444.0000		

* - Outlier for that well and constituent.

** - ND value replaced with median RL.

*** - ND value replaced with manual RL.

ND = Not detected, Result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Specific Conductance	umhos/cm	MW-17	04/30/1999		449.0000		
Specific Conductance	umhos/cm	MW-17	09/01/1999		449.0000		
Specific Conductance	umhos/cm	MW-17	04/12/2000		465.0000		
Specific Conductance	umhos/cm	MW-17	10/17/2000		440.0000		
Specific Conductance	umhos/cm	MW-17	04/25/2001		511.0000		
Specific Conductance	umhos/cm	MW-17	10/23/2001		473.0000		
Specific Conductance	umhos/cm	MW-17	04/28/2002		427.0000		
Specific Conductance	umhos/cm	MW-17	10/06/2002		417.0000		
Specific Conductance	umhos/cm	MW-17	04/03/2003		299.0000		
Specific Conductance	umhos/cm	MW-17	10/07/2003		572.0000		
Specific Conductance	umhos/cm	MW-17	04/30/2004		525.0000		
Specific Conductance	umhos/cm	MW-17	10/12/2004		861.0000		
Specific Conductance	umhos/cm	MW-17	04/26/2005		131.0000		*
Specific Conductance	umhos/cm	MW-17	10/11/2005		699.0000		
Specific Conductance	umhos/cm	MW-17	04/26/2006		632.0000		
Specific Conductance	umhos/cm	MW-17	10/05/2006		620.0000		
Specific Conductance	umhos/cm	MW-17	04/23/2007		638.0000		
Specific Conductance	umhos/cm	MW-17	10/09/2007		663.0000		
Specific Conductance	umhos/cm	MW-17	04/07/2008		729.0000		
Specific Conductance	umhos/cm	MW-17	10/14/2008		646.0000		
Specific Conductance	umhos/cm	MW-17	04/07/2009		613.0000		
Specific Conductance	umhos/cm	MW-17	10/05/2009		625.0000		
Specific Conductance	umhos/cm	MW-17	04/01/2010		649.0000		
Specific Conductance	umhos/cm	MW-17	10/01/2010		636.0000		
Specific Conductance	umhos/cm	MW-17	04/07/2011		591.0000		
Specific Conductance	umhos/cm	MW-17	10/27/2011		611.0000		
Specific Conductance	umhos/cm	MW-17	04/23/2012		599.0000		
Specific Conductance	umhos/cm	MW-17	10/23/2012		774.0000		
Specific Conductance	umhos/cm	MW-17	04/16/2013		725.0000		
Specific Conductance	umhos/cm	MW-17	10/28/2013		745.0000		
Specific Conductance	umhos/cm	MW-17	04/24/2014		780.0000		
Specific Conductance	umhos/cm	MW-17	10/06/2014		769.0000		
Specific Conductance	umhos/cm	MW-17	04/21/2015		777.0000		
Specific Conductance	umhos/cm	MW-17	10/05/2015		800.0000		
Specific Conductance	umhos/cm	MW-17	04/26/2016		777.0000		
Specific Conductance	umhos/cm	MW-17	10/05/2016		845.0000		
Specific Conductance	umhos/cm	MW-17	04/04/2017		752.0000		
Specific Conductance	umhos/cm	MW-17	10/10/2017		644.0000		
Specific Conductance	umhos/cm	MW-17	04/11/2018		733.0000		
Specific Conductance	umhos/cm	MW-17	10/30/2018		1115.0000		
Specific Conductance	umhos/cm	MW-17	04/01/2019		806.0000		
Specific Conductance	umhos/cm	MW-17	10/08/2019		856.0000		
Specific Conductance	umhos/cm	MW-17	04/20/2020		908.0000		
Specific Conductance	umhos/cm	MW-17	10/20/2020		860.0000		
Specific Conductance	umhos/cm	MW-17	04/26/2021		1025.0000		
Specific Conductance	umhos/cm	MW-17	08/16/2021		1058.0000		
Specific Conductance	umhos/cm	MW-17	06/01/2022		1059.0000		
Specific Conductance	umhos/cm	MW-17	10/03/2022		852.0000		
Specific Conductance	umhos/cm	MW-17	05/03/2023		1326.0000		
Total Organic Halogens	ug/L	MW-17	10/19/1998	ND	10.0000		
Total Organic Halogens	ug/L	MW-17	09/01/1999	ND	10.0000		
Total Organic Halogens	ug/L	MW-17	10/17/2000	ND	10.0000		
Total Organic Halogens	ug/L	MW-17	10/23/2001	ND	10.0000		
Total Organic Halogens	ug/L	MW-17	04/28/2002	ND	10.0000		
Total Organic Halogens	ug/L	MW-17	10/06/2002	ND	10.0000		
Total Organic Halogens	ug/L	MW-17	04/03/2003	ND	10.0000		
Total Organic Halogens	ug/L	MW-17	04/30/2004	ND	10.0000		
Total Organic Halogens	ug/L	MW-17	04/26/2005	ND	10.0000		
Total Organic Halogens	ug/L	MW-17	04/23/2007	ND	10.0000		
Total Organic Halogens	ug/L	MW-17	04/07/2009	ND	10.0000		
Total Organic Halogens	ug/L	MW-17	04/01/2010	ND	10.0000		
Total Organic Halogens	ug/L	MW-17	04/07/2011	ND	10.0000		
Total Organic Halogens	ug/L	MW-17	04/23/2012		11.4000		
Total Organic Halogens	ug/L	MW-17	04/16/2013	ND	30.0000	10.0000	**
Total Organic Halogens	ug/L	MW-17	04/24/2014	ND	30.0000	10.0000	**
Total Organic Halogens	ug/L	MW-17	04/21/2015	ND	30.0000	10.0000	**
Total Organic Halogens	ug/L	MW-17	04/26/2016	ND	30.0000	10.0000	**
Total Organic Halogens	ug/L	MW-17	04/04/2017	ND	30.0000	10.0000	**
Total Organic Halogens	ug/L	MW-17	04/11/2018	ND	30.0000	10.0000	**
Total Organic Halogens	ug/L	MW-17	04/01/2019	ND	30.0000	10.0000	**
Total Organic Halogens	ug/L	MW-17	04/20/2020	ND	40.0000	10.0000	**
Total Organic Halogens	ug/L	MW-17	04/26/2021	ND	10.0000		
Total Organic Halogens	ug/L	MW-17	06/01/2022	ND	10.0000		
Total Organic Halogens	ug/L	MW-17	05/03/2023	ND	10.0000		

* - Outlier for that well and constituent.

** - ND value replaced with median RL.

*** - ND value replaced with manual RL.

ND = Not detected, Result = detection limit.

Table 2

Most Current Downgradient Monitoring Data

Constituent	Units	Well	Date		Result		Pred. Limit
Ammonia as N	mg/L	MW-10	05/03/2023	ND	0.2000		0.2000
Chemical Oxygen Demand	mg/L	MW-10	05/03/2023		26.6000	***	21.2000
Chloride	mg/L	MW-10	05/03/2023		166.0000	***	7.3000
Iron, Dissolved	ug/L	MW-10	05/03/2023	ND	500.0000		100.0000
pH	S.U.	MW-10	05/03/2023		6.9100		5.10 - 7.69
Phenols	mg/L	MW-10	05/03/2023	ND	0.0200		0.0200
Specific Conductance	umhos/cm	MW-10	05/03/2023		1538.0000	***	1188.9857
Total Organic Halogens	ug/L	MW-10	05/03/2023		45.0000	***	11.4000
Ammonia as N	mg/L	MW-11	05/03/2023	ND	0.2000		0.2000
Chemical Oxygen Demand	mg/L	MW-11	05/03/2023		8.4000		21.2000
Chloride	mg/L	MW-11	05/03/2023		25.1000	***	7.3000
Iron, Dissolved	ug/L	MW-11	05/03/2023	ND	500.0000		100.0000
pH	S.U.	MW-11	05/03/2023		6.7500		5.10 - 7.69
Phenols	mg/L	MW-11	05/03/2023	ND	0.0200		0.0200
Specific Conductance	umhos/cm	MW-11	05/03/2023		1259.0000	***	1188.9857
Total Organic Halogens	ug/L	MW-11	05/03/2023	ND	10.0000		11.4000
Ammonia as N	mg/L	MW-12	05/03/2023	ND	0.2000		0.2000
Chemical Oxygen Demand	mg/L	MW-12	05/03/2023		15.5000		21.2000
Chloride	mg/L	MW-12	05/03/2023		29.1000	***	7.3000
Iron, Dissolved	ug/L	MW-12	05/03/2023		10800.0000	***	100.0000
pH	S.U.	MW-12	05/03/2023		6.5700		5.10 - 7.69
Phenols	mg/L	MW-12	05/03/2023	ND	0.0220		0.0200
Specific Conductance	umhos/cm	MW-12	05/03/2023		1481.0000	***	1188.9857
Total Organic Halogens	ug/L	MW-12	05/03/2023		47.0000	***	11.4000
Ammonia as N	mg/L	MW-13	05/03/2023	ND	0.2000		0.2000
Chemical Oxygen Demand	mg/L	MW-13	05/03/2023		23.5000	*	21.2000
Chloride	mg/L	MW-13	05/03/2023		73.0000	***	7.3000
Iron, Dissolved	ug/L	MW-13	05/03/2023		1200.0000	***	100.0000
pH	S.U.	MW-13	05/03/2023		6.9300		5.10 - 7.69
Phenols	mg/L	MW-13	05/03/2023	ND	0.0200		0.0200
Specific Conductance	umhos/cm	MW-13	05/03/2023		1446.0000	*	1188.9857
Total Organic Halogens	ug/L	MW-13	05/03/2023		77.0000	*	11.4000
Ammonia as N	mg/L	MW-14	05/03/2023	ND	0.2000		0.2000
Chemical Oxygen Demand	mg/L	MW-14	05/03/2023		29.6000	*	21.2000
Chloride	mg/L	MW-14	05/03/2023		58.8000	***	7.3000
Iron, Dissolved	ug/L	MW-14	05/03/2023	ND	500.0000		100.0000
pH	S.U.	MW-14	05/03/2023		6.6400		5.10 - 7.69
Phenols	mg/L	MW-14	05/03/2023	ND	0.0200		0.0200
Specific Conductance	umhos/cm	MW-14	05/03/2023		1501.0000	***	1188.9857
Total Organic Halogens	ug/L	MW-14	05/03/2023		93.0000	***	11.4000
Ammonia as N	mg/L	MW-16	05/03/2023	ND	0.2000		0.2000
Chemical Oxygen Demand	mg/L	MW-16	05/03/2023		12.1000	**	21.2000
Chloride	mg/L	MW-16	05/03/2023		6.9500	**	7.3000
Iron, Dissolved	ug/L	MW-16	05/03/2023	ND	500.0000		100.0000
pH	S.U.	MW-16	05/03/2023		7.0600		5.10 - 7.69
Phenols	mg/L	MW-16	05/03/2023	ND	0.0200		0.0200
Specific Conductance	umhos/cm	MW-16	05/03/2023		1319.0000	*	1188.9857
Total Organic Halogens	ug/L	MW-16	05/03/2023	ND	10.0000		11.4000
Ammonia as N	mg/L	MW-8	05/03/2023	ND	0.2000		0.2000
Chemical Oxygen Demand	mg/L	MW-8	05/03/2023		16.5000		21.2000
Chloride	mg/L	MW-8	05/03/2023		12.9000	***	7.3000
Iron, Dissolved	ug/L	MW-8	05/03/2023	ND	500.0000		100.0000
pH	S.U.	MW-8	05/03/2023		6.9500		5.10 - 7.69
Phenols	mg/L	MW-8	05/03/2023	ND	0.0200		0.0200
Specific Conductance	umhos/cm	MW-8	05/03/2023		1390.0000	***	1188.9857
Total Organic Halogens	ug/L	MW-8	05/03/2023		65.0000	***	11.4000

* - Current value failed - awaiting verification.

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

*** - Current value failed - exceedance verified.

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

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

ND = Not Detected, Result = detection limit.

Table 3**Detection Frequencies in Upgradient and Downgradient Wells**

Constituent	Detect	Upgradient N	Proportion	Detect	Downgradient N	Proportion
Ammonia as N	0	54	0.000	7	341	0.021
Chemical Oxygen Demand	11	54	0.204	189	341	0.554
Chloride	4	54	0.074	341	341	1.000
Iron, Dissolved	0	54	0.000	106	341	0.311
pH	52	52	1.000	341	341	1.000
Phenols	0	25	0.000	4	172	0.023
Specific Conductance	51	51	1.000	341	341	1.000
Total Organic Halogens	1	25	0.040	119	172	0.692

N = Total number of measurements in all wells.

Detect = Total number of detections in all wells.

Proportion = Detect/N.

Table 4

Shapiro-Wilk Multiple Group Test of Normality

Constituent	Detect	N	Detect Freq	G raw	G log	G cbrt	G sqrt	G sqr	G cub	Crit Value	Dist Form	Model Type
Ammonia as N	0	54	0.000									nonpar
Chemical Oxygen Demand	11	54	0.204	1.647	0.056					2.326	normal	nonpar
Chloride	4	54	0.074	1.334	1.586					2.326	normal	nonpar
Iron, Dissolved	0	54	0.000									nonpar
pH	52	52	1.000	5.615	6.411					2.326	non-norm	nonpar
Phenols	0	25	0.000									nonpar
Specific Conductance	51	51	1.000	0.951	0.559					2.326	normal	normal
Total Organic Halogens	1	25	0.040									nonpar

* - Distribution override for that constituent.

Fit to distribution is confirmed if $G \leq$ critical value.

Model type may not match distributional form when detection frequency < 50%.

Table 5

Summary Statistics and Prediction Limits

Constituent	Units	Detect	N	Mean	SD	alpha	Factor	Pred Limit	Type		Conf
Ammonia as N	mg/L	0	54					0.2000	nonpar	***	0.99
Chemical Oxygen Demand	mg/L	11	54					21.2000	nonpar		0.99
Chloride	mg/L	4	54					7.3000	nonpar		0.99
Iron, Dissolved	ug/L	0	54					100.0000	nonpar	***	0.99
pH	S.U.	52	52					5.10- 7.69	nonpar		0.99
Phenols	mg/L	0	25					0.0200	nonpar	***	0.98
Specific Conductance	umhos/cm	51	51	688.7647	206.1353	0.0100	2.4267	1188.9857	normal		
Total Organic Halogens	ug/L	1	25					11.4000	nonpar		0.98

Conf = confidence level for passing initial test or one verification resample at all downgradient wells for a single constituent (nonparametric test only).

* - Insufficient Data.

** - Calculated limit raised to Manual Reporting Limit.

*** - Nonparametric limit based on ND value.

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

All sample sizes and statistics are based on outlier free data.

For nonparametric limits, median reporting limits are substituted for extreme reporting limit values.

Table 6

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

Constituent	Units	Well	Date	Result	ND Qualifier	Date Range	N	Critical Value
Specific Conductance	umhos/cm	MW-17	04/26/2005	131.0000		04/22/1998-05/03/2023	52	0.3793

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

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

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

Table 8

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

Constituent	Units	Well	Date		Result	Pred. Limit
Chemical Oxygen Demand	mg/L	MW-10	08/09/1996		140.0000 *	21.2000
Chemical Oxygen Demand	mg/L	MW-10	10/10/1996	ND	5.0000	21.2000
Chemical Oxygen Demand	mg/L	MW-10	01/21/1997		5.7000	21.2000
Chemical Oxygen Demand	mg/L	MW-10	04/17/1997	ND	5.0000	21.2000
Chemical Oxygen Demand	mg/L	MW-10	10/04/1997	ND	5.0000	21.2000
Chemical Oxygen Demand	mg/L	MW-10	04/22/1998	ND	5.0000	21.2000
Chemical Oxygen Demand	mg/L	MW-10	10/19/1998	ND	5.0000	21.2000
Chemical Oxygen Demand	mg/L	MW-10	04/30/1999		63.0000 *	21.2000
Chemical Oxygen Demand	mg/L	MW-10	09/01/1999	ND	5.0000	21.2000
Chemical Oxygen Demand	mg/L	MW-10	04/12/2000	ND	5.0000	21.2000
Chemical Oxygen Demand	mg/L	MW-10	10/17/2000	ND	5.0000	21.2000
Chemical Oxygen Demand	mg/L	MW-10	04/25/2001	ND	5.0000	21.2000
Chemical Oxygen Demand	mg/L	MW-10	10/23/2001	ND	5.0000	21.2000
Chemical Oxygen Demand	mg/L	MW-10	04/28/2002		5.7000	21.2000
Chemical Oxygen Demand	mg/L	MW-10	10/06/2002		6.9000	21.2000
Chemical Oxygen Demand	mg/L	MW-10	04/03/2003	ND	5.0000	21.2000
Chemical Oxygen Demand	mg/L	MW-10	10/07/2003	ND	5.0000	21.2000
Chemical Oxygen Demand	mg/L	MW-10	04/30/2004	ND	5.0000	21.2000
Chemical Oxygen Demand	mg/L	MW-10	10/12/2004	ND	5.0000	21.2000
Chemical Oxygen Demand	mg/L	MW-10	04/26/2005	ND	5.0000	21.2000
Chemical Oxygen Demand	mg/L	MW-10	10/11/2005	ND	5.0000	21.2000
Chemical Oxygen Demand	mg/L	MW-10	04/26/2006	ND	5.0000	21.2000
Chemical Oxygen Demand	mg/L	MW-10	10/05/2006		11.3000	21.2000
Chemical Oxygen Demand	mg/L	MW-10	04/23/2007		12.1000	21.2000
Chemical Oxygen Demand	mg/L	MW-10	10/09/2007		8.0000	21.2000
Chemical Oxygen Demand	mg/L	MW-10	04/07/2008	ND	5.0000	21.2000
Chemical Oxygen Demand	mg/L	MW-10	10/14/2008		11.4000	21.2000
Chemical Oxygen Demand	mg/L	MW-10	04/07/2009		10.4000	21.2000
Chemical Oxygen Demand	mg/L	MW-10	10/05/2009	ND	5.0000	21.2000
Chemical Oxygen Demand	mg/L	MW-10	04/01/2010		9.6000	21.2000
Chemical Oxygen Demand	mg/L	MW-10	10/01/2010		21.8000 *	21.2000
Chemical Oxygen Demand	mg/L	MW-10	04/07/2011		9.1000	21.2000
Chemical Oxygen Demand	mg/L	MW-10	10/27/2011		26.7000 *	21.2000
Chemical Oxygen Demand	mg/L	MW-10	04/23/2012	ND	5.0000	21.2000
Chemical Oxygen Demand	mg/L	MW-10	10/23/2012		43.2000 *	21.2000
Chemical Oxygen Demand	mg/L	MW-10	04/16/2013		12.2000	21.2000
Chemical Oxygen Demand	mg/L	MW-10	10/28/2013		62.1000 *	21.2000
Chemical Oxygen Demand	mg/L	MW-10	04/24/2014		6.7000	21.2000
Chemical Oxygen Demand	mg/L	MW-10	10/06/2014		15.8000	21.2000
Chemical Oxygen Demand	mg/L	MW-10	04/21/2015		12.5000	21.2000
Chemical Oxygen Demand	mg/L	MW-10	10/05/2015		18.9000	21.2000
Chemical Oxygen Demand	mg/L	MW-10	04/26/2016		24.6000 *	21.2000
Chemical Oxygen Demand	mg/L	MW-10	10/05/2016		41.8000 *	21.2000
Chemical Oxygen Demand	mg/L	MW-10	04/04/2017	ND	5.0000	21.2000
Chemical Oxygen Demand	mg/L	MW-10	10/10/2017		12.1000	21.2000
Chemical Oxygen Demand	mg/L	MW-10	04/11/2018		21.4000 *	21.2000
Chemical Oxygen Demand	mg/L	MW-10	10/30/2018		55.1000 *	21.2000
Chemical Oxygen Demand	mg/L	MW-10	04/01/2019		37.8000 *	21.2000
Chemical Oxygen Demand	mg/L	MW-10	10/08/2019		44.5000 *	21.2000
Chemical Oxygen Demand	mg/L	MW-10	04/20/2020		53.4000 *	21.2000
Chemical Oxygen Demand	mg/L	MW-10	10/20/2020		64.2000 *	21.2000
Chemical Oxygen Demand	mg/L	MW-10	04/26/2021		66.8000 *	21.2000
Chemical Oxygen Demand	mg/L	MW-10	08/16/2021		28.6000 *	21.2000
Chemical Oxygen Demand	mg/L	MW-10	06/01/2022		36.2000 *	21.2000
Chemical Oxygen Demand	mg/L	MW-10	05/03/2023		26.6000 *	21.2000
Chloride	mg/L	MW-10	08/09/1996		13.0000 *	7.3000
Chloride	mg/L	MW-10	10/10/1996		14.0000 *	7.3000
Chloride	mg/L	MW-10	01/21/1997		15.0000 *	7.3000
Chloride	mg/L	MW-10	04/17/1997		22.0000 *	7.3000
Chloride	mg/L	MW-10	10/04/1997		19.0000 *	7.3000
Chloride	mg/L	MW-10	04/22/1998		19.6000 *	7.3000
Chloride	mg/L	MW-10	10/19/1998		20.0000 *	7.3000
Chloride	mg/L	MW-10	04/30/1999		21.0000 *	7.3000
Chloride	mg/L	MW-10	09/01/1999		21.0000 *	7.3000
Chloride	mg/L	MW-10	04/12/2000		18.6000 *	7.3000
Chloride	mg/L	MW-10	10/17/2000		19.7000 *	7.3000
Chloride	mg/L	MW-10	04/25/2001		16.7000 *	7.3000
Chloride	mg/L	MW-10	10/23/2001		18.6000 *	7.3000
Chloride	mg/L	MW-10	04/28/2002		17.9000 *	7.3000
Chloride	mg/L	MW-10	10/06/2002		17.8000 *	7.3000
Chloride	mg/L	MW-10	04/03/2003		23.0000 *	7.3000

* - Significantly increased over background.

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

*** - Manual exclusion.

ND = Not Detected, Result = detection limit.

Table 8

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

Constituent	Units	Well	Date		Result	Pred. Limit
Chloride	mg/L	MW-10	10/07/2003		23.6000 *	7.3000
Chloride	mg/L	MW-10	04/30/2004		24.0000 *	7.3000
Chloride	mg/L	MW-10	10/12/2004		26.2000 *	7.3000
Chloride	mg/L	MW-10	04/26/2005		28.1000 *	7.3000
Chloride	mg/L	MW-10	10/11/2005		28.7000 *	7.3000
Chloride	mg/L	MW-10	04/26/2006		26.2000 *	7.3000
Chloride	mg/L	MW-10	10/05/2006		25.1000 *	7.3000
Chloride	mg/L	MW-10	04/23/2007		28.8000 *	7.3000
Chloride	mg/L	MW-10	10/09/2007		31.1000 *	7.3000
Chloride	mg/L	MW-10	04/07/2008		33.9000 *	7.3000
Chloride	mg/L	MW-10	10/14/2008		35.4000 *	7.3000
Chloride	mg/L	MW-10	04/07/2009		37.4000 *	7.3000
Chloride	mg/L	MW-10	10/05/2009		39.6000 *	7.3000
Chloride	mg/L	MW-10	04/01/2010		50.8000 *	7.3000
Chloride	mg/L	MW-10	10/01/2010		52.4000 *	7.3000
Chloride	mg/L	MW-10	04/07/2011		51.8000 *	7.3000
Chloride	mg/L	MW-10	10/27/2011		65.7000 *	7.3000
Chloride	mg/L	MW-10	04/23/2012		56.1000 *	7.3000
Chloride	mg/L	MW-10	10/23/2012		46.7000 *	7.3000
Chloride	mg/L	MW-10	04/16/2013		47.0000 *	7.3000
Chloride	mg/L	MW-10	10/28/2013		58.5000 *	7.3000
Chloride	mg/L	MW-10	04/24/2014		55.4000 *	7.3000
Chloride	mg/L	MW-10	10/06/2014		69.7000 *	7.3000
Chloride	mg/L	MW-10	04/21/2015		81.8000 *	7.3000
Chloride	mg/L	MW-10	10/05/2015		80.2000 *	7.3000
Chloride	mg/L	MW-10	04/26/2016		101.0000 *	7.3000
Chloride	mg/L	MW-10	10/05/2016		179.0000 *	7.3000
Chloride	mg/L	MW-10	04/04/2017		112.0000 *	7.3000
Chloride	mg/L	MW-10	10/10/2017		85.4000 *	7.3000
Chloride	mg/L	MW-10	04/11/2018		102.0000 *	7.3000
Chloride	mg/L	MW-10	10/30/2018		140.0000 *	7.3000
Chloride	mg/L	MW-10	04/01/2019		372.0000 *	7.3000
Chloride	mg/L	MW-10	10/08/2019		196.0000 *	7.3000
Chloride	mg/L	MW-10	04/20/2020		295.0000 *	7.3000
Chloride	mg/L	MW-10	10/20/2020		269.0000 *	7.3000
Chloride	mg/L	MW-10	04/26/2021		392.0000 *	7.3000
Chloride	mg/L	MW-10	08/16/2021		115.0000 *	7.3000
Chloride	mg/L	MW-10	06/01/2022		107.0000 *	7.3000
Chloride	mg/L	MW-10	05/03/2023		166.0000 *	7.3000
Specific Conductance	umhos/cm	MW-10	08/09/1996		787.0000	1188.9857
Specific Conductance	umhos/cm	MW-10	10/10/1996		695.0000	1188.9857
Specific Conductance	umhos/cm	MW-10	01/21/1997		625.0000	1188.9857
Specific Conductance	umhos/cm	MW-10	04/17/1997		724.0000	1188.9857
Specific Conductance	umhos/cm	MW-10	10/04/1997		644.0000	1188.9857
Specific Conductance	umhos/cm	MW-10	04/22/1998		684.0000	1188.9857
Specific Conductance	umhos/cm	MW-10	10/19/1998		742.0000	1188.9857
Specific Conductance	umhos/cm	MW-10	04/30/1999		713.0000	1188.9857
Specific Conductance	umhos/cm	MW-10	09/01/1999		774.0000	1188.9857
Specific Conductance	umhos/cm	MW-10	04/12/2000		700.0000	1188.9857
Specific Conductance	umhos/cm	MW-10	10/17/2000		729.0000	1188.9857
Specific Conductance	umhos/cm	MW-10	04/25/2001		570.0000	1188.9857
Specific Conductance	umhos/cm	MW-10	10/23/2001		740.0000	1188.9857
Specific Conductance	umhos/cm	MW-10	04/28/2002		463.0000	1188.9857
Specific Conductance	umhos/cm	MW-10	10/06/2002		645.0000	1188.9857
Specific Conductance	umhos/cm	MW-10	04/03/2003		753.0000	1188.9857
Specific Conductance	umhos/cm	MW-10	10/07/2003		550.0000	1188.9857
Specific Conductance	umhos/cm	MW-10	04/30/2004		693.0000	1188.9857
Specific Conductance	umhos/cm	MW-10	10/12/2004		532.0000	1188.9857
Specific Conductance	umhos/cm	MW-10	04/26/2005		575.0000	1188.9857
Specific Conductance	umhos/cm	MW-10	10/11/2005		1051.0000	1188.9857
Specific Conductance	umhos/cm	MW-10	04/26/2006		879.0000	1188.9857
Specific Conductance	umhos/cm	MW-10	10/05/2006		972.0000	1188.9857
Specific Conductance	umhos/cm	MW-10	04/23/2007		943.0000	1188.9857
Specific Conductance	umhos/cm	MW-10	10/09/2007		1062.0000	1188.9857
Specific Conductance	umhos/cm	MW-10	04/07/2008		1199.0000 *	1188.9857
Specific Conductance	umhos/cm	MW-10	10/14/2008		1069.0000	1188.9857
Specific Conductance	umhos/cm	MW-10	04/07/2009		982.0000	1188.9857
Specific Conductance	umhos/cm	MW-10	10/05/2009		973.0000	1188.9857
Specific Conductance	umhos/cm	MW-10	04/01/2010		1045.0000	1188.9857
Specific Conductance	umhos/cm	MW-10	10/01/2010		1100.0000	1188.9857
Specific Conductance	umhos/cm	MW-10	04/07/2011		1014.0000	1188.9857

* - Significantly increased over background.

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

*** - Manual exclusion.

ND = Not Detected, Result = detection limit.

Table 8

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

Constituent	Units	Well	Date		Result	Pred. Limit
Specific Conductance	umhos/cm	MW-10	10/27/2011		1141.0000	1188.9857
Specific Conductance	umhos/cm	MW-10	04/23/2012		1075.0000	1188.9857
Specific Conductance	umhos/cm	MW-10	10/23/2012		1258.0000 *	1188.9857
Specific Conductance	umhos/cm	MW-10	04/16/2013		1166.0000	1188.9857
Specific Conductance	umhos/cm	MW-10	10/28/2013		1297.0000 *	1188.9857
Specific Conductance	umhos/cm	MW-10	04/24/2014		1248.0000 *	1188.9857
Specific Conductance	umhos/cm	MW-10	10/06/2014		1394.0000 *	1188.9857
Specific Conductance	umhos/cm	MW-10	04/21/2015		1374.0000 *	1188.9857
Specific Conductance	umhos/cm	MW-10	10/05/2015		1394.0000 *	1188.9857
Specific Conductance	umhos/cm	MW-10	04/26/2016		1241.0000 *	1188.9857
Specific Conductance	umhos/cm	MW-10	10/05/2016		1785.0000 *	1188.9857
Specific Conductance	umhos/cm	MW-10	04/04/2017		1325.0000 *	1188.9857
Specific Conductance	umhos/cm	MW-10	10/10/2017		1146.0000	1188.9857
Specific Conductance	umhos/cm	MW-10	04/11/2018		1200.0000 *	1188.9857
Specific Conductance	umhos/cm	MW-10	10/30/2018		1776.0000 *	1188.9857
Specific Conductance	umhos/cm	MW-10	04/01/2019		1890.0000 *	1188.9857
Specific Conductance	umhos/cm	MW-10	10/08/2019		1855.0000 *	1188.9857
Specific Conductance	umhos/cm	MW-10	04/20/2020		1861.0000 *	1188.9857
Specific Conductance	umhos/cm	MW-10	10/20/2020		2520.0000 *	1188.9857
Specific Conductance	umhos/cm	MW-10	04/26/2021		1999.0000 *	1188.9857
Specific Conductance	umhos/cm	MW-10	08/16/2021		1673.0000 *	1188.9857
Specific Conductance	umhos/cm	MW-10	06/01/2022		1472.0000 *	1188.9857
Specific Conductance	umhos/cm	MW-10	05/03/2023		1538.0000 *	1188.9857
Total Organic Halogens	ug/L	MW-10	10/04/1997		12.0000 *	11.4000
Total Organic Halogens	ug/L	MW-10	10/19/1998		19.0000 *	11.4000
Total Organic Halogens	ug/L	MW-10	09/01/1999		13.0000 *	11.4000
Total Organic Halogens	ug/L	MW-10	10/17/2000		11.0000	11.4000
Total Organic Halogens	ug/L	MW-10	10/23/2001	ND	10.0000	11.4000
Total Organic Halogens	ug/L	MW-10	04/28/2002		5.0000	11.4000
Total Organic Halogens	ug/L	MW-10	10/06/2002		12.0000 *	11.4000
Total Organic Halogens	ug/L	MW-10	04/03/2003	ND	10.0000	11.4000
Total Organic Halogens	ug/L	MW-10	04/30/2004	ND	10.0000	11.4000
Total Organic Halogens	ug/L	MW-10	04/26/2005	ND	10.0000	11.4000
Total Organic Halogens	ug/L	MW-10	04/26/2006	ND	10.0000	11.4000
Total Organic Halogens	ug/L	MW-10	04/23/2007	ND	10.0000	11.4000
Total Organic Halogens	ug/L	MW-10	04/07/2008		11.9000 *	11.4000
Total Organic Halogens	ug/L	MW-10	04/07/2009	ND	10.0000	11.4000
Total Organic Halogens	ug/L	MW-10	04/01/2010		16.1000 *	11.4000
Total Organic Halogens	ug/L	MW-10	04/07/2011		28.0000 *	11.4000
Total Organic Halogens	ug/L	MW-10	04/23/2012		20.3000 *	11.4000
Total Organic Halogens	ug/L	MW-10	04/16/2013	ND	30.0000	11.4000
Total Organic Halogens	ug/L	MW-10	04/24/2014	ND	30.0000	11.4000
Total Organic Halogens	ug/L	MW-10	04/21/2015	ND	30.0000	11.4000
Total Organic Halogens	ug/L	MW-10	04/26/2016	ND	30.0000	11.4000
Total Organic Halogens	ug/L	MW-10	04/04/2017		52.4000 *	11.4000
Total Organic Halogens	ug/L	MW-10	04/11/2018		50.0000 *	11.4000
Total Organic Halogens	ug/L	MW-10	04/01/2019		64.2000 *	11.4000
Total Organic Halogens	ug/L	MW-10	04/20/2020	ND	40.0000	11.4000
Total Organic Halogens	ug/L	MW-10	04/26/2021		76.0000 *	11.4000
Total Organic Halogens	ug/L	MW-10	06/01/2022		41.0000 *	11.4000
Total Organic Halogens	ug/L	MW-10	05/03/2023		45.0000 *	11.4000
Chloride	mg/L	MW-11	07/12/1996		19.0000 *	7.3000
Chloride	mg/L	MW-11	10/10/1996		19.0000 *	7.3000
Chloride	mg/L	MW-11	01/21/1997		22.0000 *	7.3000
Chloride	mg/L	MW-11	04/17/1997		20.0000 *	7.3000
Chloride	mg/L	MW-11	10/04/1997		28.0000 *	7.3000
Chloride	mg/L	MW-11	04/22/1998		20.2000 *	7.3000
Chloride	mg/L	MW-11	10/19/1998		32.0000 *	7.3000
Chloride	mg/L	MW-11	04/30/1999		37.0000 *	7.3000
Chloride	mg/L	MW-11	09/01/1999		33.0000 *	7.3000
Chloride	mg/L	MW-11	04/12/2000		6.4000	7.3000
Chloride	mg/L	MW-11	10/17/2000		5.5000	7.3000
Chloride	mg/L	MW-11	04/25/2001		12.9000 *	7.3000
Chloride	mg/L	MW-11	10/23/2001		16.0000 *	7.3000
Chloride	mg/L	MW-11	04/28/2002		18.0000 *	7.3000
Chloride	mg/L	MW-11	10/06/2002		18.8000 *	7.3000
Chloride	mg/L	MW-11	04/03/2003		12.3000 *	7.3000
Chloride	mg/L	MW-11	10/07/2003		15.8000 *	7.3000
Chloride	mg/L	MW-11	04/30/2004		23.4000 *	7.3000
Chloride	mg/L	MW-11	10/12/2004		44.9000 *	7.3000
Chloride	mg/L	MW-11	04/26/2005		56.3000 *	7.3000

* - Significantly increased over background.

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

*** - Manual exclusion.

ND = Not Detected, Result = detection limit.

Table 8

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

Constituent	Units	Well	Date		Result	Pred. Limit
Chloride	mg/L	MW-11	10/11/2005		50.5000 *	7.3000
Chloride	mg/L	MW-11	04/26/2006		38.2000 *	7.3000
Chloride	mg/L	MW-11	10/05/2006		14.0000 *	7.3000
Chloride	mg/L	MW-11	04/23/2007		16.0000 *	7.3000
Chloride	mg/L	MW-11	10/09/2007		23.9000 *	7.3000
Chloride	mg/L	MW-11	04/07/2008		67.9000 *	7.3000
Chloride	mg/L	MW-11	10/14/2008		67.1000 *	7.3000
Chloride	mg/L	MW-11	04/07/2009		64.9000 *	7.3000
Chloride	mg/L	MW-11	10/05/2009		61.3000 *	7.3000
Chloride	mg/L	MW-11	04/01/2010		61.6000 *	7.3000
Chloride	mg/L	MW-11	10/01/2010		46.1000 *	7.3000
Chloride	mg/L	MW-11	04/07/2011		59.9000 *	7.3000
Chloride	mg/L	MW-11	10/27/2011		61.9000 *	7.3000
Chloride	mg/L	MW-11	04/23/2012		72.4000 *	7.3000
Chloride	mg/L	MW-11	10/23/2012		29.3000 *	7.3000
Chloride	mg/L	MW-11	04/16/2013		17.6000 *	7.3000
Chloride	mg/L	MW-11	10/28/2013		57.6000 *	7.3000
Chloride	mg/L	MW-11	04/24/2014		64.2000 *	7.3000
Chloride	mg/L	MW-11	10/06/2014		45.1000 *	7.3000
Chloride	mg/L	MW-11	04/21/2015		78.7000 *	7.3000
Chloride	mg/L	MW-11	10/05/2015		84.3000 *	7.3000
Chloride	mg/L	MW-11	04/26/2016		61.1000 *	7.3000
Chloride	mg/L	MW-11	10/05/2016		78.5000 *	7.3000
Chloride	mg/L	MW-11	04/04/2017		102.0000 *	7.3000
Chloride	mg/L	MW-11	10/10/2017		91.8000 *	7.3000
Chloride	mg/L	MW-11	04/11/2018		89.3000 *	7.3000
Chloride	mg/L	MW-11	10/30/2018		75.1000 *	7.3000
Chloride	mg/L	MW-11	04/01/2019		81.0000 *	7.3000
Chloride	mg/L	MW-11	10/08/2019		69.2000 *	7.3000
Chloride	mg/L	MW-11	04/20/2020		72.0000 *	7.3000
Chloride	mg/L	MW-11	10/20/2020		84.1000 *	7.3000
Chloride	mg/L	MW-11	04/26/2021		100.0000 *	7.3000
Chloride	mg/L	MW-11	08/16/2021		38.4000 *	7.3000
Chloride	mg/L	MW-11	06/01/2022		26.9000 *	7.3000
Chloride	mg/L	MW-11	10/03/2022		24.3000 *	7.3000
Chloride	mg/L	MW-11	05/03/2023		25.1000 *	7.3000
Specific Conductance	umhos/cm	MW-11	07/12/1996		465.0000	1188.9857
Specific Conductance	umhos/cm	MW-11	10/10/1996		622.0000	1188.9857
Specific Conductance	umhos/cm	MW-11	01/21/1997		515.0000	1188.9857
Specific Conductance	umhos/cm	MW-11	04/17/1997		537.0000	1188.9857
Specific Conductance	umhos/cm	MW-11	10/04/1997		543.0000	1188.9857
Specific Conductance	umhos/cm	MW-11	04/22/1998		625.0000	1188.9857
Specific Conductance	umhos/cm	MW-11	10/19/1998		667.0000	1188.9857
Specific Conductance	umhos/cm	MW-11	04/30/1999		707.0000	1188.9857
Specific Conductance	umhos/cm	MW-11	09/01/1999		736.0000	1188.9857
Specific Conductance	umhos/cm	MW-11	04/12/2000		737.0000	1188.9857
Specific Conductance	umhos/cm	MW-11	10/17/2000		740.0000	1188.9857
Specific Conductance	umhos/cm	MW-11	04/25/2001		428.0000	1188.9857
Specific Conductance	umhos/cm	MW-11	10/23/2001		733.0000	1188.9857
Specific Conductance	umhos/cm	MW-11	04/28/2002		784.0000	1188.9857
Specific Conductance	umhos/cm	MW-11	10/06/2002		684.0000	1188.9857
Specific Conductance	umhos/cm	MW-11	04/03/2003		735.0000	1188.9857
Specific Conductance	umhos/cm	MW-11	10/07/2003		832.0000	1188.9857
Specific Conductance	umhos/cm	MW-11	04/30/2004		615.0000	1188.9857
Specific Conductance	umhos/cm	MW-11	10/12/2004		1266.0000 *	1188.9857
Specific Conductance	umhos/cm	MW-11	04/26/2005		658.0000	1188.9857
Specific Conductance	umhos/cm	MW-11	10/11/2005		989.0000	1188.9857
Specific Conductance	umhos/cm	MW-11	04/26/2006		882.0000	1188.9857
Specific Conductance	umhos/cm	MW-11	10/05/2006		975.0000	1188.9857
Specific Conductance	umhos/cm	MW-11	04/23/2007		979.0000	1188.9857
Specific Conductance	umhos/cm	MW-11	10/09/2007		1030.0000	1188.9857
Specific Conductance	umhos/cm	MW-11	04/07/2008		1170.0000	1188.9857
Specific Conductance	umhos/cm	MW-11	10/14/2008		992.0000	1188.9857
Specific Conductance	umhos/cm	MW-11	04/07/2009		1034.0000	1188.9857
Specific Conductance	umhos/cm	MW-11	10/05/2009		1052.0000	1188.9857
Specific Conductance	umhos/cm	MW-11	04/01/2010		1121.0000	1188.9857
Specific Conductance	umhos/cm	MW-11	10/01/2010		1071.0000	1188.9857
Specific Conductance	umhos/cm	MW-11	04/07/2011		1039.0000	1188.9857
Specific Conductance	umhos/cm	MW-11	10/27/2011		1003.0000	1188.9857
Specific Conductance	umhos/cm	MW-11	04/23/2012		1060.0000	1188.9857
Specific Conductance	umhos/cm	MW-11	10/23/2012		1187.0000	1188.9857

* - Significantly increased over background.

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

*** - Manual exclusion.

ND = Not Detected, Result = detection limit.

Table 8

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

Constituent	Units	Well	Date		Result	Pred. Limit
Specific Conductance	umhos/cm	MW-11	04/16/2013		1121.0000	1188.9857
Specific Conductance	umhos/cm	MW-11	10/28/2013		1193.0000 *	1188.9857
Specific Conductance	umhos/cm	MW-11	04/24/2014		1178.0000	1188.9857
Specific Conductance	umhos/cm	MW-11	10/06/2014		1082.0000	1188.9857
Specific Conductance	umhos/cm	MW-11	04/21/2015		1215.0000 *	1188.9857
Specific Conductance	umhos/cm	MW-11	10/05/2015		1221.0000 *	1188.9857
Specific Conductance	umhos/cm	MW-11	04/26/2016		1218.0000 *	1188.9857
Specific Conductance	umhos/cm	MW-11	10/05/2016		1299.0000 *	1188.9857
Specific Conductance	umhos/cm	MW-11	04/04/2017		1234.0000 *	1188.9857
Specific Conductance	umhos/cm	MW-11	10/10/2017		1196.0000 *	1188.9857
Specific Conductance	umhos/cm	MW-11	04/11/2018		1175.0000	1188.9857
Specific Conductance	umhos/cm	MW-11	10/30/2018		1204.0000 *	1188.9857
Specific Conductance	umhos/cm	MW-11	04/01/2019		1296.0000 *	1188.9857
Specific Conductance	umhos/cm	MW-11	10/08/2019		1316.0000 *	1188.9857
Specific Conductance	umhos/cm	MW-11	04/20/2020		1416.0000 *	1188.9857
Specific Conductance	umhos/cm	MW-11	10/20/2020		1462.0000 *	1188.9857
Specific Conductance	umhos/cm	MW-11	04/26/2021		1553.0000 *	1188.9857
Specific Conductance	umhos/cm	MW-11	08/16/2021		1465.0000 *	1188.9857
Specific Conductance	umhos/cm	MW-11	06/01/2022		1245.0000 *	1188.9857
Specific Conductance	umhos/cm	MW-11	10/03/2022		1266.0000 *	1188.9857
Specific Conductance	umhos/cm	MW-11	05/03/2023		1259.0000 *	1188.9857
Chloride	mg/L	MW-12	10/10/1996		5.4000	7.3000
Chloride	mg/L	MW-12	01/21/1997		6.4000	7.3000
Chloride	mg/L	MW-12	04/17/1997		7.5000 *	7.3000
Chloride	mg/L	MW-12	07/15/1997		6.8000	7.3000
Chloride	mg/L	MW-12	10/04/1997		6.6000	7.3000
Chloride	mg/L	MW-12	04/22/1998		8.1000 *	7.3000
Chloride	mg/L	MW-12	10/19/1998		7.4000 *	7.3000
Chloride	mg/L	MW-12	04/30/1999		9.6000 *	7.3000
Chloride	mg/L	MW-12	09/01/1999		8.3000 *	7.3000
Chloride	mg/L	MW-12	04/12/2000		6.4000	7.3000
Chloride	mg/L	MW-12	10/17/2000		7.9000 *	7.3000
Chloride	mg/L	MW-12	04/25/2001		8.0000 *	7.3000
Chloride	mg/L	MW-12	10/23/2001		16.2000 *	7.3000
Chloride	mg/L	MW-12	04/28/2002		17.4000 *	7.3000
Chloride	mg/L	MW-12	10/06/2002		27.0000 *	7.3000
Chloride	mg/L	MW-12	04/03/2003		43.1000 *	7.3000
Chloride	mg/L	MW-12	10/07/2003		81.1000 *	7.3000
Chloride	mg/L	MW-12	04/30/2004		60.4000 *	7.3000
Chloride	mg/L	MW-12	10/12/2004		50.1000 *	7.3000
Chloride	mg/L	MW-12	04/26/2005		21.5000 *	7.3000
Chloride	mg/L	MW-12	10/11/2005		21.4000 *	7.3000
Chloride	mg/L	MW-12	04/26/2006		9.8800 *	7.3000
Chloride	mg/L	MW-12	10/05/2006		14.5000 *	7.3000
Chloride	mg/L	MW-12	04/23/2007		10.7000 *	7.3000
Chloride	mg/L	MW-12	10/09/2007		23.9000 *	7.3000
Chloride	mg/L	MW-12	04/07/2008		13.2000 *	7.3000
Chloride	mg/L	MW-12	10/14/2008		19.8000 *	7.3000
Chloride	mg/L	MW-12	04/07/2009		9.3000 *	7.3000
Chloride	mg/L	MW-12	10/05/2009		9.8000 *	7.3000
Chloride	mg/L	MW-12	04/01/2010		11.0000 *	7.3000
Chloride	mg/L	MW-12	10/01/2010		25.9000 *	7.3000
Chloride	mg/L	MW-12	04/07/2011		16.0000 *	7.3000
Chloride	mg/L	MW-12	10/27/2011		14.2000 *	7.3000
Chloride	mg/L	MW-12	04/23/2012		12.3000 *	7.3000
Chloride	mg/L	MW-12	10/23/2012		9.3700 *	7.3000
Chloride	mg/L	MW-12	04/16/2013		9.3200 *	7.3000
Chloride	mg/L	MW-12	10/28/2013		35.8000 *	7.3000
Chloride	mg/L	MW-12	04/24/2014		23.8000 *	7.3000
Chloride	mg/L	MW-12	10/06/2014		37.9000 *	7.3000
Chloride	mg/L	MW-12	04/21/2015		63.7000 *	7.3000
Chloride	mg/L	MW-12	10/05/2015		61.4000 *	7.3000
Chloride	mg/L	MW-12	04/26/2016		130.0000 *	7.3000
Chloride	mg/L	MW-12	10/05/2016		106.0000 *	7.3000
Chloride	mg/L	MW-12	04/04/2017		42.9000 *	7.3000
Chloride	mg/L	MW-12	10/10/2017		19.2000 *	7.3000
Chloride	mg/L	MW-12	04/11/2018		15.2000 *	7.3000
Chloride	mg/L	MW-12	10/30/2018		42.6000 *	7.3000
Chloride	mg/L	MW-12	04/01/2019		31.5000 *	7.3000
Chloride	mg/L	MW-12	10/08/2019		12.0000 *	7.3000
Chloride	mg/L	MW-12	04/20/2020		11.2000 *	7.3000

* - Significantly increased over background.

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

*** - Manual exclusion.

ND = Not Detected, Result = detection limit.

Table 8

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

Constituent	Units	Well	Date		Result	Pred. Limit
Chloride	mg/L	MW-12	10/20/2020		12.3000 *	7.3000
Chloride	mg/L	MW-12	04/26/2021		9.3200 *	7.3000
Chloride	mg/L	MW-12	08/16/2021		12.5000 *	7.3000
Chloride	mg/L	MW-12	06/01/2022		32.0000 *	7.3000
Chloride	mg/L	MW-12	10/03/2022		21.7000 *	7.3000
Chloride	mg/L	MW-12	05/03/2023		29.1000 *	7.3000
Iron, Dissolved	ug/L	MW-12	10/10/1996	ND	100.0000	100.0000
Iron, Dissolved	ug/L	MW-12	01/21/1997	ND	100.0000	100.0000
Iron, Dissolved	ug/L	MW-12	04/17/1997	ND	100.0000	100.0000
Iron, Dissolved	ug/L	MW-12	07/15/1997	ND	100.0000	100.0000
Iron, Dissolved	ug/L	MW-12	10/04/1997	ND	100.0000	100.0000
Iron, Dissolved	ug/L	MW-12	04/22/1998	ND	100.0000	100.0000
Iron, Dissolved	ug/L	MW-12	10/19/1998	ND	100.0000	100.0000
Iron, Dissolved	ug/L	MW-12	04/30/1999	ND	100.0000	100.0000
Iron, Dissolved	ug/L	MW-12	09/01/1999	ND	100.0000	100.0000
Iron, Dissolved	ug/L	MW-12	04/12/2000	ND	100.0000	100.0000
Iron, Dissolved	ug/L	MW-12	10/17/2000	ND	100.0000	100.0000
Iron, Dissolved	ug/L	MW-12	04/25/2001	ND	100.0000	100.0000
Iron, Dissolved	ug/L	MW-12	10/23/2001	ND	100.0000	100.0000
Iron, Dissolved	ug/L	MW-12	04/28/2002	ND	100.0000	100.0000
Iron, Dissolved	ug/L	MW-12	10/06/2002	ND	100.0000	100.0000
Iron, Dissolved	ug/L	MW-12	04/03/2003	ND	100.0000	100.0000
Iron, Dissolved	ug/L	MW-12	10/07/2003	ND	100.0000	100.0000
Iron, Dissolved	ug/L	MW-12	04/30/2004	ND	100.0000	100.0000
Iron, Dissolved	ug/L	MW-12	10/12/2004	ND	100.0000	100.0000
Iron, Dissolved	ug/L	MW-12	04/26/2005		300.0000 *	100.0000
Iron, Dissolved	ug/L	MW-12	10/11/2005		1500.0000 *	100.0000
Iron, Dissolved	ug/L	MW-12	04/26/2006		2290.0000 *	100.0000
Iron, Dissolved	ug/L	MW-12	10/05/2006		650.0000 *	100.0000
Iron, Dissolved	ug/L	MW-12	04/23/2007		816.0000 *	100.0000
Iron, Dissolved	ug/L	MW-12	10/09/2007		3090.0000 *	100.0000
Iron, Dissolved	ug/L	MW-12	04/07/2008		465.0000 *	100.0000
Iron, Dissolved	ug/L	MW-12	10/14/2008		1610.0000 *	100.0000
Iron, Dissolved	ug/L	MW-12	04/07/2009		2400.0000 *	100.0000
Iron, Dissolved	ug/L	MW-12	10/05/2009		7220.0000 *	100.0000
Iron, Dissolved	ug/L	MW-12	04/01/2010		5400.0000 *	100.0000
Iron, Dissolved	ug/L	MW-12	10/01/2010		6230.0000 *	100.0000
Iron, Dissolved	ug/L	MW-12	04/07/2011		5660.0000 *	100.0000
Iron, Dissolved	ug/L	MW-12	10/27/2011		5300.0000 *	100.0000
Iron, Dissolved	ug/L	MW-12	04/23/2012		4510.0000 *	100.0000
Iron, Dissolved	ug/L	MW-12	10/23/2012		7640.0000 *	100.0000
Iron, Dissolved	ug/L	MW-12	04/16/2013		5970.0000 *	100.0000
Iron, Dissolved	ug/L	MW-12	10/28/2013		8850.0000 *	100.0000
Iron, Dissolved	ug/L	MW-12	04/24/2014		10100.0000 *	100.0000
Iron, Dissolved	ug/L	MW-12	10/06/2014		13500.0000 *	100.0000
Iron, Dissolved	ug/L	MW-12	04/21/2015		19800.0000 *	100.0000
Iron, Dissolved	ug/L	MW-12	10/05/2015		21700.0000 *	100.0000
Iron, Dissolved	ug/L	MW-12	04/26/2016		15600.0000 *	100.0000
Iron, Dissolved	ug/L	MW-12	10/05/2016		19200.0000 *	100.0000
Iron, Dissolved	ug/L	MW-12	04/04/2017		13100.0000 *	100.0000
Iron, Dissolved	ug/L	MW-12	10/10/2017		17100.0000 *	100.0000
Iron, Dissolved	ug/L	MW-12	04/11/2018		22900.0000 *	100.0000
Iron, Dissolved	ug/L	MW-12	10/30/2018		27900.0000 *	100.0000
Iron, Dissolved	ug/L	MW-12	04/01/2019		20200.0000 *	100.0000
Iron, Dissolved	ug/L	MW-12	10/08/2019		27400.0000 *	100.0000
Iron, Dissolved	ug/L	MW-12	04/20/2020		24800.0000 *	100.0000
Iron, Dissolved	ug/L	MW-12	10/20/2020		19400.0000 *	100.0000
Iron, Dissolved	ug/L	MW-12	04/26/2021		27800.0000 *	100.0000
Iron, Dissolved	ug/L	MW-12	08/16/2021		29900.0000 *	100.0000
Iron, Dissolved	ug/L	MW-12	06/01/2022		25300.0000 *	100.0000
Iron, Dissolved	ug/L	MW-12	10/03/2022		9460.0000 *	100.0000
Iron, Dissolved	ug/L	MW-12	05/03/2023		10800.0000 *	100.0000
Specific Conductance	umhos/cm	MW-12	10/10/1996		1026.0000	1188.9857
Specific Conductance	umhos/cm	MW-12	01/21/1997		922.0000	1188.9857
Specific Conductance	umhos/cm	MW-12	04/17/1997		1010.0000	1188.9857
Specific Conductance	umhos/cm	MW-12	07/15/1997		1017.0000	1188.9857
Specific Conductance	umhos/cm	MW-12	10/04/1997		906.0000	1188.9857
Specific Conductance	umhos/cm	MW-12	04/22/1998		1044.0000	1188.9857
Specific Conductance	umhos/cm	MW-12	10/19/1998		1046.0000	1188.9857
Specific Conductance	umhos/cm	MW-12	04/30/1999		1102.0000	1188.9857
Specific Conductance	umhos/cm	MW-12	09/01/1999		1171.0000	1188.9857

* - Significantly increased over background.

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

*** - Manual exclusion.

ND = Not Detected, Result = detection limit.

Table 8

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

Constituent	Units	Well	Date		Result	Pred. Limit
Specific Conductance	umhos/cm	MW-12	04/12/2000		1087.0000	1188.9857
Specific Conductance	umhos/cm	MW-12	10/17/2000		1129.0000	1188.9857
Specific Conductance	umhos/cm	MW-12	04/25/2001	*	1223.0000	1188.9857
Specific Conductance	umhos/cm	MW-12	10/23/2001		1165.0000	1188.9857
Specific Conductance	umhos/cm	MW-12	04/28/2002		1040.0000	1188.9857
Specific Conductance	umhos/cm	MW-12	10/06/2002		1051.0000	1188.9857
Specific Conductance	umhos/cm	MW-12	04/03/2003	*	1319.0000	1188.9857
Specific Conductance	umhos/cm	MW-12	10/07/2003		671.0000	1188.9857
Specific Conductance	umhos/cm	MW-12	04/30/2004		1106.0000	1188.9857
Specific Conductance	umhos/cm	MW-12	10/12/2004		496.0000	1188.9857
Specific Conductance	umhos/cm	MW-12	04/26/2005		182.0000	1188.9857
Specific Conductance	umhos/cm	MW-12	10/11/2005	*	1571.0000	1188.9857
Specific Conductance	umhos/cm	MW-12	04/26/2006	*	1374.0000	1188.9857
Specific Conductance	umhos/cm	MW-12	10/05/2006	*	1369.0000	1188.9857
Specific Conductance	umhos/cm	MW-12	04/23/2007	*	1270.0000	1188.9857
Specific Conductance	umhos/cm	MW-12	10/09/2007	*	1451.0000	1188.9857
Specific Conductance	umhos/cm	MW-12	04/07/2008	*	1571.0000	1188.9857
Specific Conductance	umhos/cm	MW-12	10/14/2008	*	1377.0000	1188.9857
Specific Conductance	umhos/cm	MW-12	04/07/2009	*	1326.0000	1188.9857
Specific Conductance	umhos/cm	MW-12	10/05/2009	*	1371.0000	1188.9857
Specific Conductance	umhos/cm	MW-12	04/01/2010	*	1357.0000	1188.9857
Specific Conductance	umhos/cm	MW-12	10/01/2010	*	1399.0000	1188.9857
Specific Conductance	umhos/cm	MW-12	04/07/2011		1184.0000	1188.9857
Specific Conductance	umhos/cm	MW-12	10/27/2011	*	1205.0000	1188.9857
Specific Conductance	umhos/cm	MW-12	04/23/2012	*	1199.0000	1188.9857
Specific Conductance	umhos/cm	MW-12	10/23/2012	*	1518.0000	1188.9857
Specific Conductance	umhos/cm	MW-12	04/16/2013	*	1476.0000	1188.9857
Specific Conductance	umhos/cm	MW-12	10/28/2013	*	1523.0000	1188.9857
Specific Conductance	umhos/cm	MW-12	04/24/2014	*	1512.0000	1188.9857
Specific Conductance	umhos/cm	MW-12	10/06/2014	*	1547.0000	1188.9857
Specific Conductance	umhos/cm	MW-12	04/21/2015	*	1601.0000	1188.9857
Specific Conductance	umhos/cm	MW-12	10/05/2015	*	1637.0000	1188.9857
Specific Conductance	umhos/cm	MW-12	04/26/2016	*	1786.0000	1188.9857
Specific Conductance	umhos/cm	MW-12	10/05/2016	*	1706.0000	1188.9857
Specific Conductance	umhos/cm	MW-12	04/04/2017	*	1375.0000	1188.9857
Specific Conductance	umhos/cm	MW-12	10/10/2017	*	1287.0000	1188.9857
Specific Conductance	umhos/cm	MW-12	04/11/2018	*	1304.0000	1188.9857
Specific Conductance	umhos/cm	MW-12	10/30/2018	*	1556.0000	1188.9857
Specific Conductance	umhos/cm	MW-12	04/01/2019	*	1399.0000	1188.9857
Specific Conductance	umhos/cm	MW-12	10/08/2019	*	1499.0000	1188.9857
Specific Conductance	umhos/cm	MW-12	04/20/2020	*	1386.0000	1188.9857
Specific Conductance	umhos/cm	MW-12	10/20/2020	*	1684.0000	1188.9857
Specific Conductance	umhos/cm	MW-12	04/26/2021	*	1637.0000	1188.9857
Specific Conductance	umhos/cm	MW-12	08/16/2021	*	1754.0000	1188.9857
Specific Conductance	umhos/cm	MW-12	06/01/2022	*	1371.0000	1188.9857
Specific Conductance	umhos/cm	MW-12	10/03/2022	*	1494.0000	1188.9857
Specific Conductance	umhos/cm	MW-12	05/03/2023	*	1481.0000	1188.9857
Total Organic Halogens	ug/L	MW-12	10/04/1997	*	83.0000	11.4000
Total Organic Halogens	ug/L	MW-12	10/19/1998	*	23.0000	11.4000
Total Organic Halogens	ug/L	MW-12	09/01/1999	*	64.0000	11.4000
Total Organic Halogens	ug/L	MW-12	10/17/2000	*	55.0000	11.4000
Total Organic Halogens	ug/L	MW-12	10/23/2001	*	58.0000	11.4000
Total Organic Halogens	ug/L	MW-12	04/28/2002	*	59.0000	11.4000
Total Organic Halogens	ug/L	MW-12	10/06/2002	*	44.0000	11.4000
Total Organic Halogens	ug/L	MW-12	04/03/2003	*	57.0000	11.4000
Total Organic Halogens	ug/L	MW-12	04/30/2004	*	54.0000	11.4000
Total Organic Halogens	ug/L	MW-12	04/26/2005	*	38.0000	11.4000
Total Organic Halogens	ug/L	MW-12	04/26/2006	*	41.4000	11.4000
Total Organic Halogens	ug/L	MW-12	04/23/2007	*	33.8000	11.4000
Total Organic Halogens	ug/L	MW-12	04/07/2008	*	37.3000	11.4000
Total Organic Halogens	ug/L	MW-12	04/07/2009	*	35.2000	11.4000
Total Organic Halogens	ug/L	MW-12	04/01/2010	*	44.6000	11.4000
Total Organic Halogens	ug/L	MW-12	04/07/2011	*	43.2000	11.4000
Total Organic Halogens	ug/L	MW-12	04/23/2012	*	40.2000	11.4000
Total Organic Halogens	ug/L	MW-12	04/16/2013	*	40.8000	11.4000
Total Organic Halogens	ug/L	MW-12	04/24/2014	*	44.4000	11.4000
Total Organic Halogens	ug/L	MW-12	04/21/2015	*	64.8000	11.4000
Total Organic Halogens	ug/L	MW-12	04/26/2016	*	50.5000	11.4000
Total Organic Halogens	ug/L	MW-12	04/04/2017	*	46.2000	11.4000
Total Organic Halogens	ug/L	MW-12	04/11/2018	*	41.9000	11.4000
Total Organic Halogens	ug/L	MW-12	04/01/2019	*	37.4000	11.4000

* - Significantly increased over background.

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

*** - Manual exclusion.

ND = Not Detected, Result = detection limit.

Table 8

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

Constituent	Units	Well	Date		Result	Pred. Limit
Total Organic Halogens	ug/L	MW-12	04/20/2020	ND	40.0000	11.4000
Total Organic Halogens	ug/L	MW-12	04/26/2021		42.0000 *	11.4000
Total Organic Halogens	ug/L	MW-12	06/01/2022		48.0000 *	11.4000
Total Organic Halogens	ug/L	MW-12	05/03/2023		47.0000 *	11.4000
Chemical Oxygen Demand	mg/L	MW-13	07/12/1996		63.0000 *	21.2000
Chemical Oxygen Demand	mg/L	MW-13	10/10/1996	ND	5.0000	21.2000
Chemical Oxygen Demand	mg/L	MW-13	01/21/1997		7.5000	21.2000
Chemical Oxygen Demand	mg/L	MW-13	04/17/1997	ND	5.0000	21.2000
Chemical Oxygen Demand	mg/L	MW-13	10/04/1997	ND	5.0000	21.2000
Chemical Oxygen Demand	mg/L	MW-13	04/22/1998	ND	5.0000	21.2000
Chemical Oxygen Demand	mg/L	MW-13	10/19/1998	ND	5.0000	21.2000
Chemical Oxygen Demand	mg/L	MW-13	04/30/1999	ND	5.0000	21.2000
Chemical Oxygen Demand	mg/L	MW-13	09/01/1999	ND	5.0000	21.2000
Chemical Oxygen Demand	mg/L	MW-13	04/12/2000		22.0000 *	21.2000
Chemical Oxygen Demand	mg/L	MW-13	10/17/2000	ND	5.0000	21.2000
Chemical Oxygen Demand	mg/L	MW-13	04/25/2001		6.3000	21.2000
Chemical Oxygen Demand	mg/L	MW-13	10/23/2001	ND	5.0000	21.2000
Chemical Oxygen Demand	mg/L	MW-13	04/28/2002		8.2000	21.2000
Chemical Oxygen Demand	mg/L	MW-13	10/06/2002		8.4000	21.2000
Chemical Oxygen Demand	mg/L	MW-13	04/03/2003		10.0000	21.2000
Chemical Oxygen Demand	mg/L	MW-13	10/07/2003	ND	5.0000	21.2000
Chemical Oxygen Demand	mg/L	MW-13	04/30/2004		12.0000	21.2000
Chemical Oxygen Demand	mg/L	MW-13	10/12/2004	ND	5.0000	21.2000
Chemical Oxygen Demand	mg/L	MW-13	04/26/2005	ND	5.0000	21.2000
Chemical Oxygen Demand	mg/L	MW-13	10/11/2005	ND	5.0000	21.2000
Chemical Oxygen Demand	mg/L	MW-13	04/26/2006		6.3000	21.2000
Chemical Oxygen Demand	mg/L	MW-13	10/05/2006		13.1000	21.2000
Chemical Oxygen Demand	mg/L	MW-13	04/23/2007		9.7000	21.2000
Chemical Oxygen Demand	mg/L	MW-13	10/09/2007	ND	5.0000	21.2000
Chemical Oxygen Demand	mg/L	MW-13	04/07/2008	ND	5.0000	21.2000
Chemical Oxygen Demand	mg/L	MW-13	10/14/2008		5.5000	21.2000
Chemical Oxygen Demand	mg/L	MW-13	04/07/2009		8.8000	21.2000
Chemical Oxygen Demand	mg/L	MW-13	10/05/2009	ND	5.0000	21.2000
Chemical Oxygen Demand	mg/L	MW-13	04/01/2010		9.6000	21.2000
Chemical Oxygen Demand	mg/L	MW-13	10/01/2010		17.9000	21.2000
Chemical Oxygen Demand	mg/L	MW-13	04/07/2011		12.1000	21.2000
Chemical Oxygen Demand	mg/L	MW-13	10/27/2011		14.3000	21.2000
Chemical Oxygen Demand	mg/L	MW-13	04/23/2012	ND	5.0000	21.2000
Chemical Oxygen Demand	mg/L	MW-13	10/23/2012	ND	5.0000	21.2000
Chemical Oxygen Demand	mg/L	MW-13	04/16/2013	ND	5.0000	21.2000
Chemical Oxygen Demand	mg/L	MW-13	10/28/2013		15.4000	21.2000
Chemical Oxygen Demand	mg/L	MW-13	04/24/2014	ND	5.0000	21.2000
Chemical Oxygen Demand	mg/L	MW-13	10/06/2014		8.3000	21.2000
Chemical Oxygen Demand	mg/L	MW-13	04/21/2015		10.1000	21.2000
Chemical Oxygen Demand	mg/L	MW-13	10/05/2015		7.9400	21.2000
Chemical Oxygen Demand	mg/L	MW-13	04/26/2016		15.3000	21.2000
Chemical Oxygen Demand	mg/L	MW-13	10/05/2016		10.6000	21.2000
Chemical Oxygen Demand	mg/L	MW-13	04/04/2017		5.2300	21.2000
Chemical Oxygen Demand	mg/L	MW-13	10/10/2017		6.5100	21.2000
Chemical Oxygen Demand	mg/L	MW-13	04/11/2018		17.2000	21.2000
Chemical Oxygen Demand	mg/L	MW-13	10/30/2018		18.6000	21.2000
Chemical Oxygen Demand	mg/L	MW-13	04/01/2019		32.5000 *	21.2000
Chemical Oxygen Demand	mg/L	MW-13	10/08/2019		60.2000 *	21.2000
Chemical Oxygen Demand	mg/L	MW-13	04/20/2020		26.7000 *	21.2000
Chemical Oxygen Demand	mg/L	MW-13	10/20/2020		8.5600	21.2000
Chemical Oxygen Demand	mg/L	MW-13	04/26/2021		22.5000 *	21.2000
Chemical Oxygen Demand	mg/L	MW-13	08/16/2021		12.5000	21.2000
Chemical Oxygen Demand	mg/L	MW-13	06/01/2022		20.9000	21.2000
Chemical Oxygen Demand	mg/L	MW-13	10/03/2022		13.5000	21.2000
Chemical Oxygen Demand	mg/L	MW-13	05/03/2023		23.5000 *	21.2000
Chloride	mg/L	MW-13	07/12/1996		12.0000 *	7.3000
Chloride	mg/L	MW-13	10/10/1996		13.0000 *	7.3000
Chloride	mg/L	MW-13	01/21/1997		14.0000 *	7.3000
Chloride	mg/L	MW-13	04/17/1997		18.0000 *	7.3000
Chloride	mg/L	MW-13	10/04/1997		18.0000 *	7.3000
Chloride	mg/L	MW-13	04/22/1998		15.6000 *	7.3000
Chloride	mg/L	MW-13	10/19/1998		18.0000 *	7.3000
Chloride	mg/L	MW-13	04/30/1999		17.0000 *	7.3000
Chloride	mg/L	MW-13	09/01/1999		18.0000 *	7.3000
Chloride	mg/L	MW-13	04/12/2000		17.5000 *	7.3000
Chloride	mg/L	MW-13	10/17/2000		19.9000 *	7.3000

* - Significantly increased over background.

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

*** - Manual exclusion.

ND = Not Detected, Result = detection limit.

Table 8

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

Constituent	Units	Well	Date		Result	Pred. Limit
Chloride	mg/L	MW-13	04/25/2001		15.1000 *	7.3000
Chloride	mg/L	MW-13	10/23/2001		16.7000 *	7.3000
Chloride	mg/L	MW-13	04/28/2002		16.6000 *	7.3000
Chloride	mg/L	MW-13	10/06/2002		16.5000 *	7.3000
Chloride	mg/L	MW-13	04/03/2003		24.8000 *	7.3000
Chloride	mg/L	MW-13	10/07/2003		19.7000 *	7.3000
Chloride	mg/L	MW-13	04/30/2004		19.3000 *	7.3000
Chloride	mg/L	MW-13	10/12/2004		18.4000 *	7.3000
Chloride	mg/L	MW-13	04/26/2005		11.6000 *	7.3000
Chloride	mg/L	MW-13	10/11/2005		19.0000 *	7.3000
Chloride	mg/L	MW-13	04/26/2006		18.8000 *	7.3000
Chloride	mg/L	MW-13	10/05/2006		18.2000 *	7.3000
Chloride	mg/L	MW-13	04/23/2007		17.5000 *	7.3000
Chloride	mg/L	MW-13	10/09/2007		20.1000 *	7.3000
Chloride	mg/L	MW-13	04/07/2008		20.0000 *	7.3000
Chloride	mg/L	MW-13	10/14/2008		19.3000 *	7.3000
Chloride	mg/L	MW-13	04/07/2009		18.1000 *	7.3000
Chloride	mg/L	MW-13	10/05/2009		19.9000 *	7.3000
Chloride	mg/L	MW-13	04/01/2010		73.3000 *	7.3000
Chloride	mg/L	MW-13	10/01/2010		51.8000 *	7.3000
Chloride	mg/L	MW-13	04/07/2011		43.1000 *	7.3000
Chloride	mg/L	MW-13	10/27/2011		27.5000 *	7.3000
Chloride	mg/L	MW-13	04/23/2012		15.4000 *	7.3000
Chloride	mg/L	MW-13	10/23/2012		18.3000 *	7.3000
Chloride	mg/L	MW-13	04/16/2013		28.5000 *	7.3000
Chloride	mg/L	MW-13	10/28/2013		60.7000 *	7.3000
Chloride	mg/L	MW-13	04/24/2014		21.6000 *	7.3000
Chloride	mg/L	MW-13	10/06/2014		77.7000 *	7.3000
Chloride	mg/L	MW-13	04/21/2015		143.0000 *	7.3000
Chloride	mg/L	MW-13	10/05/2015		75.7000 *	7.3000
Chloride	mg/L	MW-13	04/26/2016		93.2000 *	7.3000
Chloride	mg/L	MW-13	10/05/2016		73.8000 *	7.3000
Chloride	mg/L	MW-13	04/04/2017		130.0000 *	7.3000
Chloride	mg/L	MW-13	10/10/2017		62.8000 *	7.3000
Chloride	mg/L	MW-13	04/11/2018		124.0000 *	7.3000
Chloride	mg/L	MW-13	10/30/2018		132.0000 *	7.3000
Chloride	mg/L	MW-13	04/01/2019		147.0000 *	7.3000
Chloride	mg/L	MW-13	10/08/2019		179.0000 *	7.3000
Chloride	mg/L	MW-13	04/20/2020		116.0000 *	7.3000
Chloride	mg/L	MW-13	10/20/2020		32.5000 *	7.3000
Chloride	mg/L	MW-13	04/26/2021		85.2000 *	7.3000
Chloride	mg/L	MW-13	08/16/2021		33.1000 *	7.3000
Chloride	mg/L	MW-13	06/01/2022		24.7000 *	7.3000
Chloride	mg/L	MW-13	10/03/2022		21.7000 *	7.3000
Chloride	mg/L	MW-13	05/03/2023		73.0000 *	7.3000
Iron, Dissolved	ug/L	MW-13	07/12/1996		900.0000 *	100.0000
Iron, Dissolved	ug/L	MW-13	10/10/1996		3400.0000 *	100.0000
Iron, Dissolved	ug/L	MW-13	01/21/1997		3600.0000 *	100.0000
Iron, Dissolved	ug/L	MW-13	04/17/1997	ND	100.0000	100.0000
Iron, Dissolved	ug/L	MW-13	10/04/1997		490.0000 *	100.0000
Iron, Dissolved	ug/L	MW-13	04/22/1998		200.0000 *	100.0000
Iron, Dissolved	ug/L	MW-13	10/19/1998		50.0000	100.0000
Iron, Dissolved	ug/L	MW-13	04/30/1999		50.0000	100.0000
Iron, Dissolved	ug/L	MW-13	09/01/1999		720.0000 *	100.0000
Iron, Dissolved	ug/L	MW-13	04/12/2000		1050.0000 *	100.0000
Iron, Dissolved	ug/L	MW-13	10/17/2000	ND	100.0000	100.0000
Iron, Dissolved	ug/L	MW-13	04/25/2001		160.0000	100.0000
Iron, Dissolved	ug/L	MW-13	10/23/2001	ND	100.0000	100.0000
Iron, Dissolved	ug/L	MW-13	04/28/2002		710.0000 *	100.0000
Iron, Dissolved	ug/L	MW-13	10/06/2002		850.0000 *	100.0000
Iron, Dissolved	ug/L	MW-13	04/03/2003	ND	100.0000	100.0000
Iron, Dissolved	ug/L	MW-13	10/07/2003		880.0000 *	100.0000
Iron, Dissolved	ug/L	MW-13	04/30/2004	ND	100.0000	100.0000
Iron, Dissolved	ug/L	MW-13	10/12/2004	ND	100.0000	100.0000
Iron, Dissolved	ug/L	MW-13	04/26/2005		150.0000 *	100.0000
Iron, Dissolved	ug/L	MW-13	10/11/2005		340.0000 *	100.0000
Iron, Dissolved	ug/L	MW-13	04/26/2006		560.0000 *	100.0000
Iron, Dissolved	ug/L	MW-13	10/05/2006		934.0000 *	100.0000
Iron, Dissolved	ug/L	MW-13	04/23/2007		178.0000 *	100.0000
Iron, Dissolved	ug/L	MW-13	10/09/2007		177.0000 *	100.0000
Iron, Dissolved	ug/L	MW-13	04/07/2008	ND	100.0000	100.0000

* - Significantly increased over background.

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

*** - Manual exclusion.

ND = Not Detected, Result = detection limit.

Table 8

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

Constituent	Units	Well	Date		Result	Pred. Limit
Iron, Dissolved	ug/L	MW-13	10/14/2008		278.0000 *	100.0000
Iron, Dissolved	ug/L	MW-13	04/07/2009		106.0000 *	100.0000
Iron, Dissolved	ug/L	MW-13	10/05/2009		717.0000 *	100.0000
Iron, Dissolved	ug/L	MW-13	04/01/2010	ND	100.0000	100.0000
Iron, Dissolved	ug/L	MW-13	10/01/2010		1840.0000 *	100.0000
Iron, Dissolved	ug/L	MW-13	04/07/2011		1660.0000 *	100.0000
Iron, Dissolved	ug/L	MW-13	10/27/2011		211.0000 *	100.0000
Iron, Dissolved	ug/L	MW-13	04/23/2012		121.0000 *	100.0000
Iron, Dissolved	ug/L	MW-13	10/23/2012		241.0000 *	100.0000
Iron, Dissolved	ug/L	MW-13	04/16/2013	ND	100.0000	100.0000
Iron, Dissolved	ug/L	MW-13	10/28/2013		172.0000 *	100.0000
Iron, Dissolved	ug/L	MW-13	04/24/2014		153.0000 *	100.0000
Iron, Dissolved	ug/L	MW-13	10/06/2014	ND	100.0000	100.0000
Iron, Dissolved	ug/L	MW-13	04/21/2015	ND	100.0000	100.0000
Iron, Dissolved	ug/L	MW-13	10/05/2015	ND	100.0000	100.0000
Iron, Dissolved	ug/L	MW-13	04/26/2016	ND	100.0000	100.0000
Iron, Dissolved	ug/L	MW-13	10/05/2016	ND	100.0000	100.0000
Iron, Dissolved	ug/L	MW-13	04/04/2017	ND	500.0000	100.0000
Iron, Dissolved	ug/L	MW-13	10/10/2017		663.0000 *	100.0000
Iron, Dissolved	ug/L	MW-13	04/11/2018	ND	500.0000	100.0000
Iron, Dissolved	ug/L	MW-13	10/30/2018	ND	500.0000	100.0000
Iron, Dissolved	ug/L	MW-13	04/01/2019	ND	500.0000	100.0000
Iron, Dissolved	ug/L	MW-13	10/08/2019		1780.0000 *	100.0000
Iron, Dissolved	ug/L	MW-13	04/20/2020		1370.0000 *	100.0000
Iron, Dissolved	ug/L	MW-13	10/20/2020	ND	500.0000	100.0000
Iron, Dissolved	ug/L	MW-13	04/26/2021	ND	500.0000	100.0000
Iron, Dissolved	ug/L	MW-13	08/16/2021		3430.0000 *	100.0000
Iron, Dissolved	ug/L	MW-13	06/01/2022		1710.0000 *	100.0000
Iron, Dissolved	ug/L	MW-13	10/03/2022		1740.0000 *	100.0000
Iron, Dissolved	ug/L	MW-13	05/03/2023		1200.0000 *	100.0000
Specific Conductance	umhos/cm	MW-13	07/12/1996		390.0000	1188.9857
Specific Conductance	umhos/cm	MW-13	10/10/1996		475.0000	1188.9857
Specific Conductance	umhos/cm	MW-13	01/21/1997		479.0000	1188.9857
Specific Conductance	umhos/cm	MW-13	04/17/1997		645.0000	1188.9857
Specific Conductance	umhos/cm	MW-13	10/04/1997		548.0000	1188.9857
Specific Conductance	umhos/cm	MW-13	04/22/1998		584.0000	1188.9857
Specific Conductance	umhos/cm	MW-13	10/19/1998		525.0000	1188.9857
Specific Conductance	umhos/cm	MW-13	04/30/1999		605.0000	1188.9857
Specific Conductance	umhos/cm	MW-13	09/01/1999		558.0000	1188.9857
Specific Conductance	umhos/cm	MW-13	04/12/2000		517.0000	1188.9857
Specific Conductance	umhos/cm	MW-13	10/17/2000		536.0000	1188.9857
Specific Conductance	umhos/cm	MW-13	04/25/2001		648.0000	1188.9857
Specific Conductance	umhos/cm	MW-13	10/23/2001		530.0000	1188.9857
Specific Conductance	umhos/cm	MW-13	04/28/2002		423.0000	1188.9857
Specific Conductance	umhos/cm	MW-13	10/06/2002		499.0000	1188.9857
Specific Conductance	umhos/cm	MW-13	04/03/2003		930.0000	1188.9857
Specific Conductance	umhos/cm	MW-13	10/07/2003		646.0000	1188.9857
Specific Conductance	umhos/cm	MW-13	04/30/2004		792.0000	1188.9857
Specific Conductance	umhos/cm	MW-13	10/12/2004		346.0000	1188.9857
Specific Conductance	umhos/cm	MW-13	04/26/2005		608.0000	1188.9857
Specific Conductance	umhos/cm	MW-13	10/11/2005		764.0000	1188.9857
Specific Conductance	umhos/cm	MW-13	04/26/2006		641.0000	1188.9857
Specific Conductance	umhos/cm	MW-13	10/05/2006		687.0000	1188.9857
Specific Conductance	umhos/cm	MW-13	04/23/2007		668.0000	1188.9857
Specific Conductance	umhos/cm	MW-13	10/09/2007		868.0000	1188.9857
Specific Conductance	umhos/cm	MW-13	04/07/2008		804.0000	1188.9857
Specific Conductance	umhos/cm	MW-13	10/14/2008		1057.0000	1188.9857
Specific Conductance	umhos/cm	MW-13	04/07/2009		747.0000	1188.9857
Specific Conductance	umhos/cm	MW-13	10/05/2009		759.0000	1188.9857
Specific Conductance	umhos/cm	MW-13	04/01/2010		1205.0000 *	1188.9857
Specific Conductance	umhos/cm	MW-13	10/01/2010		1329.0000 *	1188.9857
Specific Conductance	umhos/cm	MW-13	04/07/2011		1115.0000	1188.9857
Specific Conductance	umhos/cm	MW-13	10/27/2011		1018.0000	1188.9857
Specific Conductance	umhos/cm	MW-13	04/23/2012		1084.0000	1188.9857
Specific Conductance	umhos/cm	MW-13	10/23/2012		806.0000	1188.9857
Specific Conductance	umhos/cm	MW-13	04/16/2013		1336.0000 *	1188.9857
Specific Conductance	umhos/cm	MW-13	10/28/2013		1421.0000 *	1188.9857
Specific Conductance	umhos/cm	MW-13	04/24/2014		847.0000	1188.9857
Specific Conductance	umhos/cm	MW-13	10/06/2014		1590.0000 *	1188.9857
Specific Conductance	umhos/cm	MW-13	04/21/2015		1583.0000 *	1188.9857
Specific Conductance	umhos/cm	MW-13	10/05/2015		1204.0000 *	1188.9857

* - Significantly increased over background.

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*** - Manual exclusion.

ND = Not Detected, Result = detection limit.

Table 8

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

Constituent	Units	Well	Date		Result		Pred. Limit
Specific Conductance	umhos/cm	MW-13	04/26/2016		1195.0000	*	1188.9857
Specific Conductance	umhos/cm	MW-13	10/05/2016		1159.0000		1188.9857
Specific Conductance	umhos/cm	MW-13	04/04/2017		1341.0000	*	1188.9857
Specific Conductance	umhos/cm	MW-13	10/10/2017		1193.0000	*	1188.9857
Specific Conductance	umhos/cm	MW-13	04/11/2018		1332.0000	*	1188.9857
Specific Conductance	umhos/cm	MW-13	10/30/2018		1578.0000	*	1188.9857
Specific Conductance	umhos/cm	MW-13	04/01/2019		1590.0000	*	1188.9857
Specific Conductance	umhos/cm	MW-13	10/08/2019		1854.0000	*	1188.9857
Specific Conductance	umhos/cm	MW-13	04/20/2020		1680.0000	*	1188.9857
Specific Conductance	umhos/cm	MW-13	10/20/2020		990.0000		1188.9857
Specific Conductance	umhos/cm	MW-13	04/26/2021		1595.0000	*	1188.9857
Specific Conductance	umhos/cm	MW-13	08/16/2021		1209.0000	*	1188.9857
Specific Conductance	umhos/cm	MW-13	06/01/2022		938.0000		1188.9857
Specific Conductance	umhos/cm	MW-13	10/03/2022		917.0000		1188.9857
Specific Conductance	umhos/cm	MW-13	05/03/2023		1446.0000	*	1188.9857
Total Organic Halogens	ug/L	MW-13	10/04/1997	ND	10.0000		11.4000
Total Organic Halogens	ug/L	MW-13	10/19/1998	ND	10.0000		11.4000
Total Organic Halogens	ug/L	MW-13	09/01/1999		138.0000	*	11.4000
Total Organic Halogens	ug/L	MW-13	10/17/2000	ND	10.0000		11.4000
Total Organic Halogens	ug/L	MW-13	10/23/2001	ND	10.0000		11.4000
Total Organic Halogens	ug/L	MW-13	04/28/2002	ND	10.0000		11.4000
Total Organic Halogens	ug/L	MW-13	10/06/2002	ND	10.0000		11.4000
Total Organic Halogens	ug/L	MW-13	04/03/2003		23.0000	*	11.4000
Total Organic Halogens	ug/L	MW-13	04/30/2004	ND	10.0000		11.4000
Total Organic Halogens	ug/L	MW-13	04/26/2005		13.0000	*	11.4000
Total Organic Halogens	ug/L	MW-13	04/26/2006	ND	10.0000		11.4000
Total Organic Halogens	ug/L	MW-13	04/23/2007	ND	10.0000		11.4000
Total Organic Halogens	ug/L	MW-13	04/07/2008	ND	10.0000		11.4000
Total Organic Halogens	ug/L	MW-13	04/07/2009		5.0000		11.4000
Total Organic Halogens	ug/L	MW-13	04/01/2010		17.1000	*	11.4000
Total Organic Halogens	ug/L	MW-13	04/07/2011		19.5000	*	11.4000
Total Organic Halogens	ug/L	MW-13	04/23/2012		16.0000	*	11.4000
Total Organic Halogens	ug/L	MW-13	04/16/2013	ND	30.0000		11.4000
Total Organic Halogens	ug/L	MW-13	04/24/2014	ND	30.0000		11.4000
Total Organic Halogens	ug/L	MW-13	04/21/2015		48.2000	*	11.4000
Total Organic Halogens	ug/L	MW-13	04/26/2016	ND	30.0000		11.4000
Total Organic Halogens	ug/L	MW-13	04/04/2017		55.9000	*	11.4000
Total Organic Halogens	ug/L	MW-13	04/11/2018		69.2000	*	11.4000
Total Organic Halogens	ug/L	MW-13	04/01/2019		72.7000	*	11.4000
Total Organic Halogens	ug/L	MW-13	04/20/2020		54.1000	*	11.4000
Total Organic Halogens	ug/L	MW-13	04/26/2021		31.0000	*	11.4000
Total Organic Halogens	ug/L	MW-13	06/01/2022		11.0000		11.4000
Total Organic Halogens	ug/L	MW-13	05/03/2023		77.0000	*	11.4000
Chemical Oxygen Demand	mg/L	MW-14	07/12/1996		24.0000	*	21.2000
Chemical Oxygen Demand	mg/L	MW-14	10/10/1996	ND	5.0000		21.2000
Chemical Oxygen Demand	mg/L	MW-14	01/21/1997	ND	5.0000		21.2000
Chemical Oxygen Demand	mg/L	MW-14	04/17/1997	ND	5.0000		21.2000
Chemical Oxygen Demand	mg/L	MW-14	10/04/1997	ND	5.0000		21.2000
Chemical Oxygen Demand	mg/L	MW-14	04/22/1998	ND	5.0000		21.2000
Chemical Oxygen Demand	mg/L	MW-14	10/19/1998	ND	5.0000		21.2000
Chemical Oxygen Demand	mg/L	MW-14	04/30/1999	ND	5.0000		21.2000
Chemical Oxygen Demand	mg/L	MW-14	09/01/1999	ND	5.0000		21.2000
Chemical Oxygen Demand	mg/L	MW-14	04/12/2000	ND	5.0000		21.2000
Chemical Oxygen Demand	mg/L	MW-14	10/17/2000	ND	5.0000		21.2000
Chemical Oxygen Demand	mg/L	MW-14	04/25/2001	ND	5.0000		21.2000
Chemical Oxygen Demand	mg/L	MW-14	10/23/2001	ND	5.0000		21.2000
Chemical Oxygen Demand	mg/L	MW-14	04/28/2002	ND	5.0000		21.2000
Chemical Oxygen Demand	mg/L	MW-14	10/06/2002		15.0000		21.2000
Chemical Oxygen Demand	mg/L	MW-14	04/03/2003		7.7000		21.2000
Chemical Oxygen Demand	mg/L	MW-14	10/07/2003		10.0000		21.2000
Chemical Oxygen Demand	mg/L	MW-14	04/30/2004	ND	5.0000		21.2000
Chemical Oxygen Demand	mg/L	MW-14	10/12/2004		6.0000		21.2000
Chemical Oxygen Demand	mg/L	MW-14	04/26/2005		5.3000		21.2000
Chemical Oxygen Demand	mg/L	MW-14	10/11/2005	ND	5.0000		21.2000
Chemical Oxygen Demand	mg/L	MW-14	04/26/2006	ND	5.0000		21.2000
Chemical Oxygen Demand	mg/L	MW-14	10/05/2006		12.0000		21.2000
Chemical Oxygen Demand	mg/L	MW-14	04/23/2007	ND	5.0000		21.2000
Chemical Oxygen Demand	mg/L	MW-14	10/09/2007		5.8000		21.2000
Chemical Oxygen Demand	mg/L	MW-14	04/07/2008	ND	5.0000		21.2000
Chemical Oxygen Demand	mg/L	MW-14	10/14/2008		10.0000		21.2000
Chemical Oxygen Demand	mg/L	MW-14	04/07/2009		10.0000		21.2000

* - Significantly increased over background.

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

*** - Manual exclusion.

ND = Not Detected, Result = detection limit.

Table 8

**Historical Downgradient Data for Constituent-Well Combinations
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Constituent	Units	Well	Date		Result	Pred. Limit
Chemical Oxygen Demand	mg/L	MW-14	10/05/2009	ND	5.0000	21.2000
Chemical Oxygen Demand	mg/L	MW-14	04/01/2010	ND	5.0000	21.2000
Chemical Oxygen Demand	mg/L	MW-14	10/01/2010	ND	5.0000	21.2000
Chemical Oxygen Demand	mg/L	MW-14	04/07/2011		10.5000	21.2000
Chemical Oxygen Demand	mg/L	MW-14	10/27/2011		13.3000	21.2000
Chemical Oxygen Demand	mg/L	MW-14	04/23/2012	ND	5.0000	21.2000
Chemical Oxygen Demand	mg/L	MW-14	10/23/2012		7.7000	21.2000
Chemical Oxygen Demand	mg/L	MW-14	04/16/2013	ND	5.0000	21.2000
Chemical Oxygen Demand	mg/L	MW-14	10/28/2013		22.8000 *	21.2000
Chemical Oxygen Demand	mg/L	MW-14	04/24/2014		5.1000	21.2000
Chemical Oxygen Demand	mg/L	MW-14	10/06/2014		7.7000	21.2000
Chemical Oxygen Demand	mg/L	MW-14	04/21/2015	ND	5.0000	21.2000
Chemical Oxygen Demand	mg/L	MW-14	10/05/2015		11.3000	21.2000
Chemical Oxygen Demand	mg/L	MW-14	04/26/2016		6.4700	21.2000
Chemical Oxygen Demand	mg/L	MW-14	10/05/2016		5.6900	21.2000
Chemical Oxygen Demand	mg/L	MW-14	04/04/2017	ND	5.0000	21.2000
Chemical Oxygen Demand	mg/L	MW-14	10/10/2017	ND	5.0000	21.2000
Chemical Oxygen Demand	mg/L	MW-14	04/11/2018		6.6000	21.2000
Chemical Oxygen Demand	mg/L	MW-14	10/30/2018	ND	5.0000	21.2000
Chemical Oxygen Demand	mg/L	MW-14	04/01/2019		12.8000	21.2000
Chemical Oxygen Demand	mg/L	MW-14	10/08/2019	ND	5.0000	21.2000
Chemical Oxygen Demand	mg/L	MW-14	04/20/2020		6.2400	21.2000
Chemical Oxygen Demand	mg/L	MW-14	10/20/2020	ND	5.0000	21.2000
Chemical Oxygen Demand	mg/L	MW-14	04/26/2021		15.5000	21.2000
Chemical Oxygen Demand	mg/L	MW-14	08/16/2021		12.5000	21.2000
Chemical Oxygen Demand	mg/L	MW-14	06/01/2022		13.9000	21.2000
Chemical Oxygen Demand	mg/L	MW-14	05/03/2023		29.6000 *	21.2000
Chloride	mg/L	MW-14	07/12/1996		12.0000 *	7.3000
Chloride	mg/L	MW-14	10/10/1996		14.0000 *	7.3000
Chloride	mg/L	MW-14	01/21/1997		13.0000 *	7.3000
Chloride	mg/L	MW-14	04/17/1997		17.0000 *	7.3000
Chloride	mg/L	MW-14	10/04/1997		15.0000 *	7.3000
Chloride	mg/L	MW-14	04/22/1998		18.5000 *	7.3000
Chloride	mg/L	MW-14	10/19/1998		19.0000 *	7.3000
Chloride	mg/L	MW-14	04/30/1999		20.0000 *	7.3000
Chloride	mg/L	MW-14	09/01/1999		18.0000 *	7.3000
Chloride	mg/L	MW-14	04/12/2000		17.7000 *	7.3000
Chloride	mg/L	MW-14	10/17/2000		17.0000 *	7.3000
Chloride	mg/L	MW-14	04/25/2001		16.8000 *	7.3000
Chloride	mg/L	MW-14	10/23/2001		22.6000 *	7.3000
Chloride	mg/L	MW-14	04/28/2002		27.9000 *	7.3000
Chloride	mg/L	MW-14	10/06/2002		23.1000 *	7.3000
Chloride	mg/L	MW-14	04/03/2003		30.9000 *	7.3000
Chloride	mg/L	MW-14	10/07/2003		24.8000 *	7.3000
Chloride	mg/L	MW-14	04/30/2004		43.4000 *	7.3000
Chloride	mg/L	MW-14	10/12/2004		80.6000 *	7.3000
Chloride	mg/L	MW-14	04/26/2005		53.3000 *	7.3000
Chloride	mg/L	MW-14	10/11/2005		43.6000 *	7.3000
Chloride	mg/L	MW-14	04/26/2006		38.1000 *	7.3000
Chloride	mg/L	MW-14	10/05/2006		38.4000 *	7.3000
Chloride	mg/L	MW-14	04/23/2007		39.9000 *	7.3000
Chloride	mg/L	MW-14	10/09/2007		43.9000 *	7.3000
Chloride	mg/L	MW-14	04/07/2008		45.1000 *	7.3000
Chloride	mg/L	MW-14	10/14/2008		40.5000 *	7.3000
Chloride	mg/L	MW-14	04/07/2009		37.3000 *	7.3000
Chloride	mg/L	MW-14	10/05/2009		44.7000 *	7.3000
Chloride	mg/L	MW-14	04/01/2010		43.6000 *	7.3000
Chloride	mg/L	MW-14	10/01/2010		53.6000 *	7.3000
Chloride	mg/L	MW-14	04/07/2011		49.7000 *	7.3000
Chloride	mg/L	MW-14	10/27/2011		35.0000 *	7.3000
Chloride	mg/L	MW-14	04/23/2012		33.5000 *	7.3000
Chloride	mg/L	MW-14	10/23/2012		29.4000 *	7.3000
Chloride	mg/L	MW-14	04/16/2013		16.4000 *	7.3000
Chloride	mg/L	MW-14	10/28/2013		66.1000 *	7.3000
Chloride	mg/L	MW-14	04/24/2014		62.3000 *	7.3000
Chloride	mg/L	MW-14	10/06/2014		61.6000 *	7.3000
Chloride	mg/L	MW-14	04/21/2015		78.8000 *	7.3000
Chloride	mg/L	MW-14	10/05/2015		62.0000 *	7.3000
Chloride	mg/L	MW-14	04/26/2016		26.4000 *	7.3000
Chloride	mg/L	MW-14	10/05/2016		38.1000 *	7.3000
Chloride	mg/L	MW-14	04/04/2017		59.0000 *	7.3000

* - Significantly increased over background.

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

*** - Manual exclusion.

ND = Not Detected, Result = detection limit.

Table 8

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

Constituent	Units	Well	Date		Result	Pred. Limit
Chloride	mg/L	MW-14	10/10/2017		53.2000 *	7.3000
Chloride	mg/L	MW-14	04/11/2018		48.2000 *	7.3000
Chloride	mg/L	MW-14	10/30/2018		20.5000 *	7.3000
Chloride	mg/L	MW-14	04/01/2019		36.5000 *	7.3000
Chloride	mg/L	MW-14	10/08/2019		30.5000 *	7.3000
Chloride	mg/L	MW-14	04/20/2020		41.6000 *	7.3000
Chloride	mg/L	MW-14	10/20/2020		50.2000 *	7.3000
Chloride	mg/L	MW-14	04/26/2021		51.0000 *	7.3000
Chloride	mg/L	MW-14	08/16/2021		50.3000 *	7.3000
Chloride	mg/L	MW-14	06/01/2022		50.0000 *	7.3000
Chloride	mg/L	MW-14	05/03/2023		58.8000 *	7.3000
Specific Conductance	umhos/cm	MW-14	07/12/1996		528.0000	1188.9857
Specific Conductance	umhos/cm	MW-14	10/10/1996		690.0000	1188.9857
Specific Conductance	umhos/cm	MW-14	01/21/1997		582.0000	1188.9857
Specific Conductance	umhos/cm	MW-14	04/17/1997		698.0000	1188.9857
Specific Conductance	umhos/cm	MW-14	10/04/1997		682.0000	1188.9857
Specific Conductance	umhos/cm	MW-14	04/22/1998		764.0000	1188.9857
Specific Conductance	umhos/cm	MW-14	10/19/1998		831.0000	1188.9857
Specific Conductance	umhos/cm	MW-14	04/30/1999		913.0000	1188.9857
Specific Conductance	umhos/cm	MW-14	09/01/1999		900.0000	1188.9857
Specific Conductance	umhos/cm	MW-14	04/12/2000		914.0000	1188.9857
Specific Conductance	umhos/cm	MW-14	10/17/2000		808.0000	1188.9857
Specific Conductance	umhos/cm	MW-14	04/25/2001		941.0000	1188.9857
Specific Conductance	umhos/cm	MW-14	10/23/2001		889.0000	1188.9857
Specific Conductance	umhos/cm	MW-14	04/28/2002		742.0000	1188.9857
Specific Conductance	umhos/cm	MW-14	10/06/2002		757.0000	1188.9857
Specific Conductance	umhos/cm	MW-14	04/03/2003		930.0000	1188.9857
Specific Conductance	umhos/cm	MW-14	10/07/2003		1050.0000	1188.9857
Specific Conductance	umhos/cm	MW-14	04/30/2004		930.0000	1188.9857
Specific Conductance	umhos/cm	MW-14	10/12/2004		419.0000	1188.9857
Specific Conductance	umhos/cm	MW-14	04/26/2005		286.0000	1188.9857
Specific Conductance	umhos/cm	MW-14	10/11/2005		1237.0000 *	1188.9857
Specific Conductance	umhos/cm	MW-14	04/26/2006		1055.0000	1188.9857
Specific Conductance	umhos/cm	MW-14	10/05/2006		1145.0000	1188.9857
Specific Conductance	umhos/cm	MW-14	04/23/2007		1146.0000	1188.9857
Specific Conductance	umhos/cm	MW-14	10/09/2007		1211.0000 *	1188.9857
Specific Conductance	umhos/cm	MW-14	04/07/2008		1397.0000 *	1188.9857
Specific Conductance	umhos/cm	MW-14	10/14/2008		1254.0000 *	1188.9857
Specific Conductance	umhos/cm	MW-14	04/07/2009		1282.0000 *	1188.9857
Specific Conductance	umhos/cm	MW-14	10/05/2009		1266.0000 *	1188.9857
Specific Conductance	umhos/cm	MW-14	04/01/2010		1246.0000 *	1188.9857
Specific Conductance	umhos/cm	MW-14	10/01/2010		1279.0000 *	1188.9857
Specific Conductance	umhos/cm	MW-14	04/07/2011		1179.0000	1188.9857
Specific Conductance	umhos/cm	MW-14	10/27/2011		1158.0000	1188.9857
Specific Conductance	umhos/cm	MW-14	04/23/2012		1177.0000	1188.9857
Specific Conductance	umhos/cm	MW-14	10/23/2012		1383.0000 *	1188.9857
Specific Conductance	umhos/cm	MW-14	04/16/2013		1184.0000	1188.9857
Specific Conductance	umhos/cm	MW-14	10/28/2013		1487.0000 *	1188.9857
Specific Conductance	umhos/cm	MW-14	04/24/2014		1403.0000 *	1188.9857
Specific Conductance	umhos/cm	MW-14	10/06/2014		1443.0000 *	1188.9857
Specific Conductance	umhos/cm	MW-14	04/21/2015		1431.0000 *	1188.9857
Specific Conductance	umhos/cm	MW-14	10/05/2015		1423.0000 *	1188.9857
Specific Conductance	umhos/cm	MW-14	04/26/2016		1314.0000 *	1188.9857
Specific Conductance	umhos/cm	MW-14	10/05/2016		1377.0000 *	1188.9857
Specific Conductance	umhos/cm	MW-14	04/04/2017		1272.0000 *	1188.9857
Specific Conductance	umhos/cm	MW-14	10/10/2017		1238.0000 *	1188.9857
Specific Conductance	umhos/cm	MW-14	04/11/2018		1227.0000 *	1188.9857
Specific Conductance	umhos/cm	MW-14	10/30/2018		1317.0000 *	1188.9857
Specific Conductance	umhos/cm	MW-14	04/01/2019		1328.0000 *	1188.9857
Specific Conductance	umhos/cm	MW-14	10/08/2019		1338.0000 *	1188.9857
Specific Conductance	umhos/cm	MW-14	04/20/2020		1541.0000 *	1188.9857
Specific Conductance	umhos/cm	MW-14	10/20/2020		1542.0000 *	1188.9857
Specific Conductance	umhos/cm	MW-14	04/26/2021		1570.0000 *	1188.9857
Specific Conductance	umhos/cm	MW-14	08/16/2021		1608.0000 *	1188.9857
Specific Conductance	umhos/cm	MW-14	06/01/2022		1382.0000 *	1188.9857
Specific Conductance	umhos/cm	MW-14	05/03/2023		1501.0000 *	1188.9857
Total Organic Halogens	ug/L	MW-14	10/04/1997		28.0000 *	11.4000
Total Organic Halogens	ug/L	MW-14	10/19/1998	ND	10.0000	11.4000
Total Organic Halogens	ug/L	MW-14	09/01/1999		52.0000 *	11.4000
Total Organic Halogens	ug/L	MW-14	10/17/2000		22.0000 *	11.4000
Total Organic Halogens	ug/L	MW-14	10/23/2001		41.0000 *	11.4000

* - Significantly increased over background.

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

*** - Manual exclusion.

ND = Not Detected, Result = detection limit.

Table 8

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

Constituent	Units	Well	Date		Result		Pred. Limit
Total Organic Halogens	ug/L	MW-14	04/28/2002		38.0000	*	11.4000
Total Organic Halogens	ug/L	MW-14	10/06/2002		25.0000	*	11.4000
Total Organic Halogens	ug/L	MW-14	10/07/2003		23.0000	*	11.4000
Total Organic Halogens	ug/L	MW-14	04/30/2004		30.0000	*	11.4000
Total Organic Halogens	ug/L	MW-14	04/26/2005		48.0000	*	11.4000
Total Organic Halogens	ug/L	MW-14	04/26/2006		39.1000	*	11.4000
Total Organic Halogens	ug/L	MW-14	04/23/2007		44.4000	*	11.4000
Total Organic Halogens	ug/L	MW-14	04/07/2008		53.2000	*	11.4000
Total Organic Halogens	ug/L	MW-14	04/07/2009		69.8000	*	11.4000
Total Organic Halogens	ug/L	MW-14	04/01/2010		67.2000	*	11.4000
Total Organic Halogens	ug/L	MW-14	04/07/2011		88.1000	*	11.4000
Total Organic Halogens	ug/L	MW-14	04/23/2012		87.8000	*	11.4000
Total Organic Halogens	ug/L	MW-14	04/16/2013	ND	30.0000		11.4000
Total Organic Halogens	ug/L	MW-14	04/24/2014		83.1000	*	11.4000
Total Organic Halogens	ug/L	MW-14	04/21/2015		77.7000	*	11.4000
Total Organic Halogens	ug/L	MW-14	04/26/2016	ND	30.0000		11.4000
Total Organic Halogens	ug/L	MW-14	04/04/2017		84.1000	*	11.4000
Total Organic Halogens	ug/L	MW-14	04/11/2018		90.6000	*	11.4000
Total Organic Halogens	ug/L	MW-14	04/01/2019		117.0000	*	11.4000
Total Organic Halogens	ug/L	MW-14	04/20/2020		85.6000	*	11.4000
Total Organic Halogens	ug/L	MW-14	04/26/2021		76.0000	*	11.4000
Total Organic Halogens	ug/L	MW-14	06/01/2022		76.0000	*	11.4000
Total Organic Halogens	ug/L	MW-14	05/03/2023		93.0000	*	11.4000
Chemical Oxygen Demand	mg/L	MW-16	04/20/2020	ND	5.0000		21.2000
Chemical Oxygen Demand	mg/L	MW-16	10/20/2020		8.2300		21.2000
Chemical Oxygen Demand	mg/L	MW-16	04/26/2021		7.0500		21.2000
Chemical Oxygen Demand	mg/L	MW-16	08/16/2021		9.8900		21.2000
Chemical Oxygen Demand	mg/L	MW-16	06/01/2022		38.2000	*	21.2000
Chemical Oxygen Demand	mg/L	MW-16	10/03/2022		50.4000	*	21.2000
Chemical Oxygen Demand	mg/L	MW-16	05/03/2023		12.1000		21.2000
Chloride	mg/L	MW-16	04/20/2020		12.0000	*	7.3000
Chloride	mg/L	MW-16	10/20/2020		27.8000	*	7.3000
Chloride	mg/L	MW-16	04/26/2021		5.5000		7.3000
Chloride	mg/L	MW-16	08/16/2021		8.8000	*	7.3000
Chloride	mg/L	MW-16	06/01/2022		9.7300	*	7.3000
Chloride	mg/L	MW-16	10/03/2022		9.5800	*	7.3000
Chloride	mg/L	MW-16	05/03/2023		6.9500		7.3000
Specific Conductance	umhos/cm	MW-16	04/20/2020		1524.0000	*	1188.9857
Specific Conductance	umhos/cm	MW-16	10/20/2020		1680.0000	*	1188.9857
Specific Conductance	umhos/cm	MW-16	04/26/2021		1436.0000	*	1188.9857
Specific Conductance	umhos/cm	MW-16	08/16/2021		1382.0000	*	1188.9857
Specific Conductance	umhos/cm	MW-16	06/01/2022		1103.0000		1188.9857
Specific Conductance	umhos/cm	MW-16	10/03/2022		1134.0000		1188.9857
Specific Conductance	umhos/cm	MW-16	05/03/2023		1319.0000	*	1188.9857
Chloride	mg/L	MW-8	10/10/1996		12.0000	*	7.3000
Chloride	mg/L	MW-8	01/21/1997		12.0000	*	7.3000
Chloride	mg/L	MW-8	04/17/1997		13.0000	*	7.3000
Chloride	mg/L	MW-8	07/15/1997		15.0000	*	7.3000
Chloride	mg/L	MW-8	10/04/1997		11.0000	*	7.3000
Chloride	mg/L	MW-8	04/22/1998		11.0000	*	7.3000
Chloride	mg/L	MW-8	10/19/1998		12.0000	*	7.3000
Chloride	mg/L	MW-8	04/30/1999		12.0000	*	7.3000
Chloride	mg/L	MW-8	09/01/1999		10.0000	*	7.3000
Chloride	mg/L	MW-8	04/12/2000		8.4000	*	7.3000
Chloride	mg/L	MW-8	10/17/2000		6.2000		7.3000
Chloride	mg/L	MW-8	04/25/2001		9.4000	*	7.3000
Chloride	mg/L	MW-8	10/23/2001		21.6000	*	7.3000
Chloride	mg/L	MW-8	04/28/2002		55.4000	*	7.3000
Chloride	mg/L	MW-8	10/06/2002		26.7000	*	7.3000
Chloride	mg/L	MW-8	04/03/2003		14.2000	*	7.3000
Chloride	mg/L	MW-8	10/07/2003		21.6000	*	7.3000
Chloride	mg/L	MW-8	04/30/2004		14.3000	*	7.3000
Chloride	mg/L	MW-8	10/12/2004		22.8000	*	7.3000
Chloride	mg/L	MW-8	04/26/2005		36.0000	*	7.3000
Chloride	mg/L	MW-8	10/11/2005		37.2000	*	7.3000
Chloride	mg/L	MW-8	04/26/2006		23.9000	*	7.3000
Chloride	mg/L	MW-8	10/05/2006		23.0000	*	7.3000
Chloride	mg/L	MW-8	04/23/2007		24.1000	*	7.3000
Chloride	mg/L	MW-8	10/09/2007		30.2000	*	7.3000
Chloride	mg/L	MW-8	04/07/2008		34.0000	*	7.3000
Chloride	mg/L	MW-8	10/14/2008		32.5000	*	7.3000

* - Significantly increased over background.

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

*** - Manual exclusion.

ND = Not Detected, Result = detection limit.

Table 8

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

Constituent	Units	Well	Date		Result	Pred. Limit
Chloride	mg/L	MW-8	04/07/2009		23.3000 *	7.3000
Chloride	mg/L	MW-8	10/05/2009		20.5000 *	7.3000
Chloride	mg/L	MW-8	04/01/2010		14.5000 *	7.3000
Chloride	mg/L	MW-8	10/01/2010		16.9000 *	7.3000
Chloride	mg/L	MW-8	04/07/2011		19.6000 *	7.3000
Chloride	mg/L	MW-8	10/27/2011		16.0000 *	7.3000
Chloride	mg/L	MW-8	04/23/2012		13.5000 *	7.3000
Chloride	mg/L	MW-8	10/23/2012		12.3000 *	7.3000
Chloride	mg/L	MW-8	04/16/2013		11.9000 *	7.3000
Chloride	mg/L	MW-8	10/28/2013		9.8600 *	7.3000
Chloride	mg/L	MW-8	04/24/2014		12.5000 *	7.3000
Chloride	mg/L	MW-8	10/06/2014		11.5000 *	7.3000
Chloride	mg/L	MW-8	04/21/2015		13.9000 *	7.3000
Chloride	mg/L	MW-8	10/05/2015		10.5000 *	7.3000
Chloride	mg/L	MW-8	04/26/2016		18.7000 *	7.3000
Chloride	mg/L	MW-8	10/05/2016		35.8000 *	7.3000
Chloride	mg/L	MW-8	04/04/2017		29.6000 *	7.3000
Chloride	mg/L	MW-8	10/10/2017		20.8000 *	7.3000
Chloride	mg/L	MW-8	04/11/2018		16.4000 *	7.3000
Chloride	mg/L	MW-8	10/30/2018		35.6000 *	7.3000
Chloride	mg/L	MW-8	04/01/2019		30.3000 *	7.3000
Chloride	mg/L	MW-8	10/08/2019		26.3000 *	7.3000
Chloride	mg/L	MW-8	04/20/2020		21.7000 *	7.3000
Chloride	mg/L	MW-8	10/20/2020		21.7000 *	7.3000
Chloride	mg/L	MW-8	04/26/2021		16.3000 *	7.3000
Chloride	mg/L	MW-8	08/16/2021		15.6000 *	7.3000
Chloride	mg/L	MW-8	06/01/2022		13.1000 *	7.3000
Chloride	mg/L	MW-8	10/03/2022		12.8000 *	7.3000
Chloride	mg/L	MW-8	05/03/2023		12.9000 *	7.3000
Specific Conductance	umhos/cm	MW-8	10/10/1996		923.0000	1188.9857
Specific Conductance	umhos/cm	MW-8	01/21/1997		823.0000	1188.9857
Specific Conductance	umhos/cm	MW-8	04/17/1997		896.0000	1188.9857
Specific Conductance	umhos/cm	MW-8	07/15/1997		929.0000	1188.9857
Specific Conductance	umhos/cm	MW-8	10/04/1997		888.0000	1188.9857
Specific Conductance	umhos/cm	MW-8	04/22/1998		945.0000	1188.9857
Specific Conductance	umhos/cm	MW-8	10/19/1998		1003.0000	1188.9857
Specific Conductance	umhos/cm	MW-8	04/30/1999		1050.0000	1188.9857
Specific Conductance	umhos/cm	MW-8	09/01/1999		1092.0000	1188.9857
Specific Conductance	umhos/cm	MW-8	04/12/2000		970.0000	1188.9857
Specific Conductance	umhos/cm	MW-8	10/17/2000		942.0000	1188.9857
Specific Conductance	umhos/cm	MW-8	04/25/2001		1034.0000	1188.9857
Specific Conductance	umhos/cm	MW-8	10/23/2001		538.0000	1188.9857
Specific Conductance	umhos/cm	MW-8	04/28/2002		984.0000	1188.9857
Specific Conductance	umhos/cm	MW-8	10/06/2002		895.0000	1188.9857
Specific Conductance	umhos/cm	MW-8	04/03/2003		1060.0000	1188.9857
Specific Conductance	umhos/cm	MW-8	10/07/2003		1115.0000	1188.9857
Specific Conductance	umhos/cm	MW-8	04/30/2004		832.0000	1188.9857
Specific Conductance	umhos/cm	MW-8	10/12/2004		563.0000	1188.9857
Specific Conductance	umhos/cm	MW-8	04/26/2005		90.0000	1188.9857
Specific Conductance	umhos/cm	MW-8	10/11/2005		1529.0000 *	1188.9857
Specific Conductance	umhos/cm	MW-8	04/26/2006		1337.0000 *	1188.9857
Specific Conductance	umhos/cm	MW-8	10/05/2006		1351.0000 *	1188.9857
Specific Conductance	umhos/cm	MW-8	04/23/2007		1258.0000 *	1188.9857
Specific Conductance	umhos/cm	MW-8	10/09/2007		1402.0000 *	1188.9857
Specific Conductance	umhos/cm	MW-8	04/07/2008		1574.0000 *	1188.9857
Specific Conductance	umhos/cm	MW-8	10/14/2008		1366.0000 *	1188.9857
Specific Conductance	umhos/cm	MW-8	04/07/2009		1331.0000 *	1188.9857
Specific Conductance	umhos/cm	MW-8	10/05/2009		1271.0000 *	1188.9857
Specific Conductance	umhos/cm	MW-8	04/01/2010		1312.0000 *	1188.9857
Specific Conductance	umhos/cm	MW-8	10/01/2010		1321.0000 *	1188.9857
Specific Conductance	umhos/cm	MW-8	04/07/2011		1215.0000 *	1188.9857
Specific Conductance	umhos/cm	MW-8	10/27/2011		1269.0000 *	1188.9857
Specific Conductance	umhos/cm	MW-8	04/23/2012		1223.0000 *	1188.9857
Specific Conductance	umhos/cm	MW-8	10/23/2012		1427.0000 *	1188.9857
Specific Conductance	umhos/cm	MW-8	04/16/2013		1419.0000 *	1188.9857
Specific Conductance	umhos/cm	MW-8	10/28/2013		1362.0000 *	1188.9857
Specific Conductance	umhos/cm	MW-8	04/24/2014		1345.0000 *	1188.9857
Specific Conductance	umhos/cm	MW-8	10/06/2014		1339.0000 *	1188.9857
Specific Conductance	umhos/cm	MW-8	04/21/2015		1389.0000 *	1188.9857
Specific Conductance	umhos/cm	MW-8	10/05/2015		1380.0000 *	1188.9857
Specific Conductance	umhos/cm	MW-8	04/26/2016		1442.0000 *	1188.9857

* - Significantly increased over background.

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

*** - Manual exclusion.

ND = Not Detected, Result = detection limit.

Table 8

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

Constituent	Units	Well	Date		Result		Pred. Limit
Specific Conductance	umhos/cm	MW-8	10/05/2016		1585.0000	*	1188.9857
Specific Conductance	umhos/cm	MW-8	04/04/2017		1326.0000	*	1188.9857
Specific Conductance	umhos/cm	MW-8	10/10/2017		1245.0000	*	1188.9857
Specific Conductance	umhos/cm	MW-8	04/11/2018		1232.0000	*	1188.9857
Specific Conductance	umhos/cm	MW-8	10/30/2018		1473.0000	*	1188.9857
Specific Conductance	umhos/cm	MW-8	04/01/2019		1507.0000	*	1188.9857
Specific Conductance	umhos/cm	MW-8	10/08/2019		1564.0000	*	1188.9857
Specific Conductance	umhos/cm	MW-8	04/20/2020		1622.0000	*	1188.9857
Specific Conductance	umhos/cm	MW-8	10/20/2020		1557.0000	*	1188.9857
Specific Conductance	umhos/cm	MW-8	04/26/2021		1618.0000	*	1188.9857
Specific Conductance	umhos/cm	MW-8	08/16/2021		1834.0000	*	1188.9857
Specific Conductance	umhos/cm	MW-8	06/01/2022		1466.0000	*	1188.9857
Specific Conductance	umhos/cm	MW-8	10/03/2022		1456.0000	*	1188.9857
Specific Conductance	umhos/cm	MW-8	05/03/2023		1390.0000	*	1188.9857
Total Organic Halogens	ug/L	MW-8	10/04/1997		114.0000	*	11.4000
Total Organic Halogens	ug/L	MW-8	10/19/1998		56.0000	*	11.4000
Total Organic Halogens	ug/L	MW-8	09/01/1999		112.0000	*	11.4000
Total Organic Halogens	ug/L	MW-8	10/17/2000		103.0000	*	11.4000
Total Organic Halogens	ug/L	MW-8	10/23/2001		75.0000	*	11.4000
Total Organic Halogens	ug/L	MW-8	04/28/2002		77.0000	*	11.4000
Total Organic Halogens	ug/L	MW-8	10/06/2002		72.0000	*	11.4000
Total Organic Halogens	ug/L	MW-8	04/03/2003		74.0000	*	11.4000
Total Organic Halogens	ug/L	MW-8	04/30/2004		26.0000	*	11.4000
Total Organic Halogens	ug/L	MW-8	04/26/2005		71.0000	*	11.4000
Total Organic Halogens	ug/L	MW-8	04/26/2006		97.3000	*	11.4000
Total Organic Halogens	ug/L	MW-8	04/23/2007		83.8000	*	11.4000
Total Organic Halogens	ug/L	MW-8	04/07/2008		90.1000	*	11.4000
Total Organic Halogens	ug/L	MW-8	04/07/2009		91.4000	*	11.4000
Total Organic Halogens	ug/L	MW-8	04/01/2010		85.3000	*	11.4000
Total Organic Halogens	ug/L	MW-8	04/07/2011		109.0000	*	11.4000
Total Organic Halogens	ug/L	MW-8	04/23/2012		71.5000	*	11.4000
Total Organic Halogens	ug/L	MW-8	04/16/2013		67.6000	*	11.4000
Total Organic Halogens	ug/L	MW-8	04/24/2014		53.9000	*	11.4000
Total Organic Halogens	ug/L	MW-8	04/21/2015		72.9000	*	11.4000
Total Organic Halogens	ug/L	MW-8	04/26/2016		70.5000	*	11.4000
Total Organic Halogens	ug/L	MW-8	04/04/2017		105.0000	*	11.4000
Total Organic Halogens	ug/L	MW-8	04/11/2018		82.0000	*	11.4000
Total Organic Halogens	ug/L	MW-8	04/01/2019		76.5000	*	11.4000
Total Organic Halogens	ug/L	MW-8	04/20/2020	ND	40.0000		11.4000
Total Organic Halogens	ug/L	MW-8	04/26/2021		53.0000	*	11.4000
Total Organic Halogens	ug/L	MW-8	06/01/2022		46.0000	*	11.4000
Total Organic Halogens	ug/L	MW-8	05/03/2023		65.0000	*	11.4000

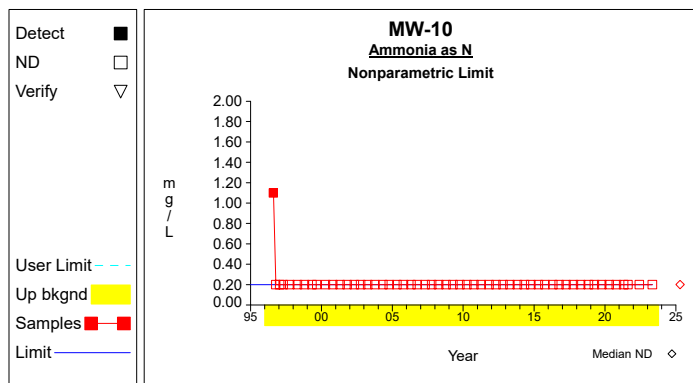
* - Significantly increased over background.

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

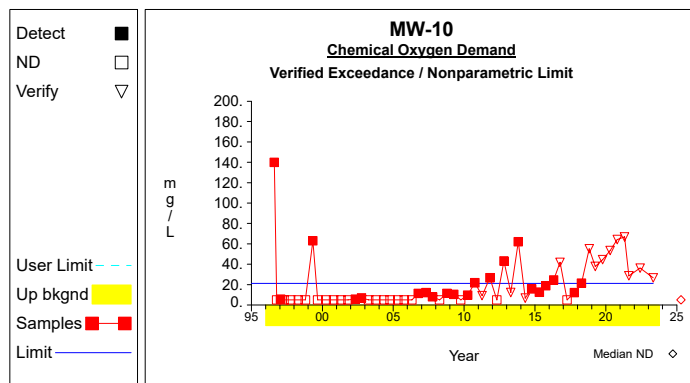
*** - Manual exclusion.

ND = Not Detected, Result = detection limit.

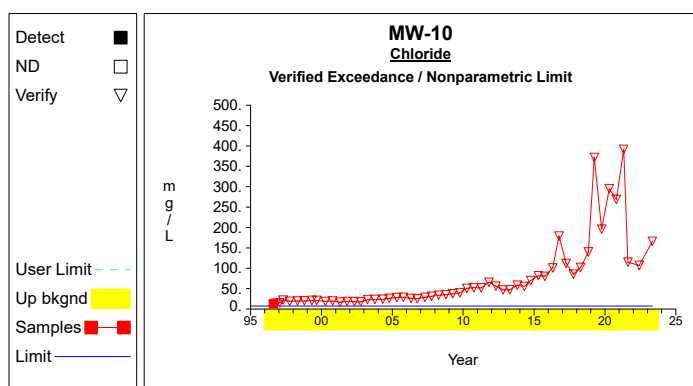
Up vs. Down Prediction Limits



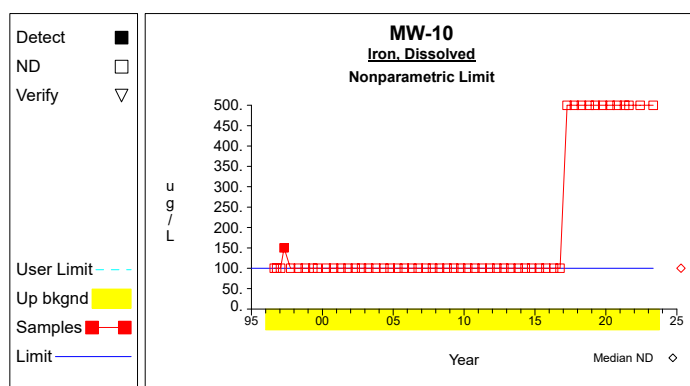
Graph 1



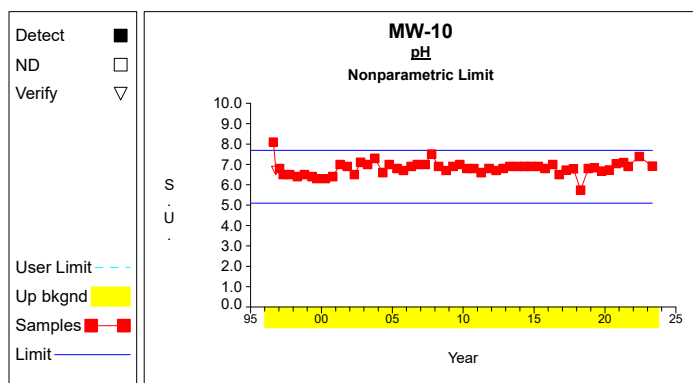
Graph 2



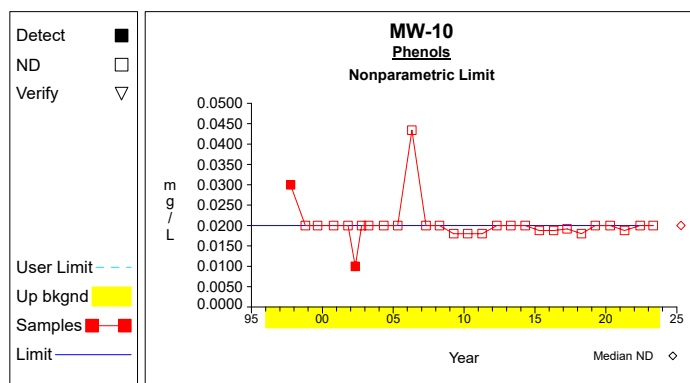
Graph 3



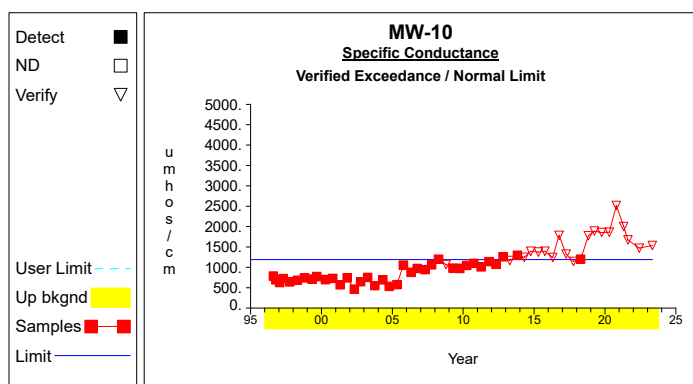
Graph 4



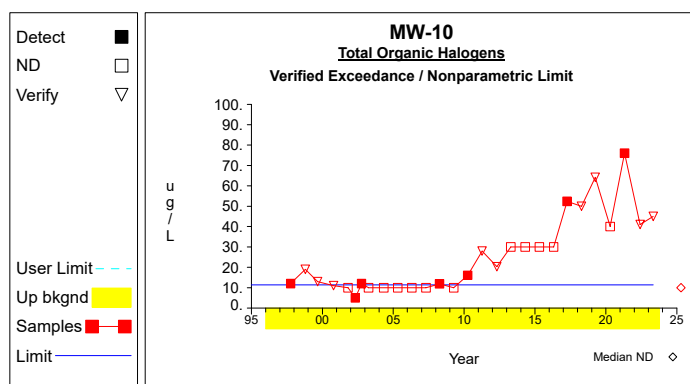
Graph 5



Graph 6

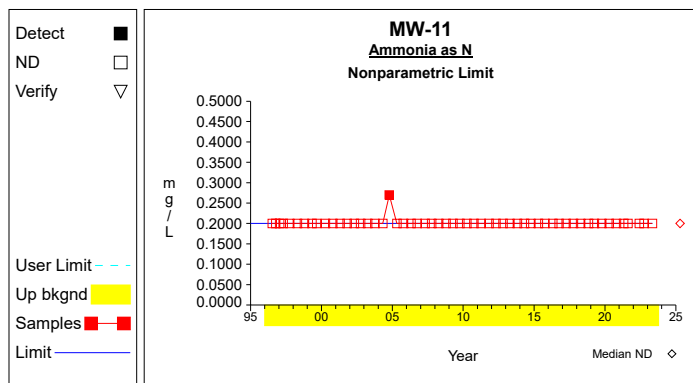


Graph 7

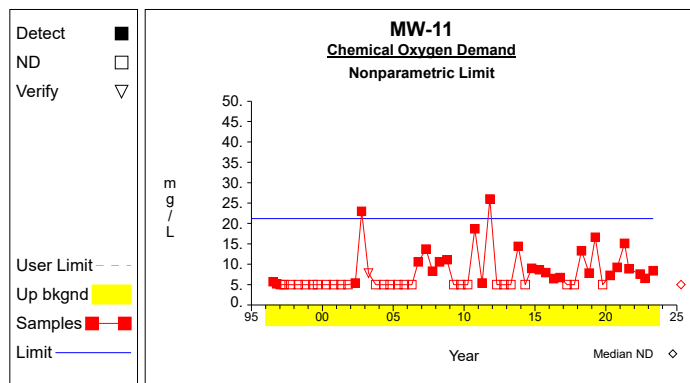


Graph 8

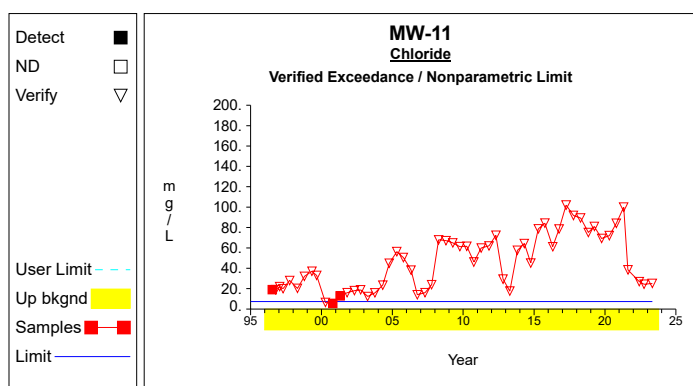
Up vs. Down Prediction Limits



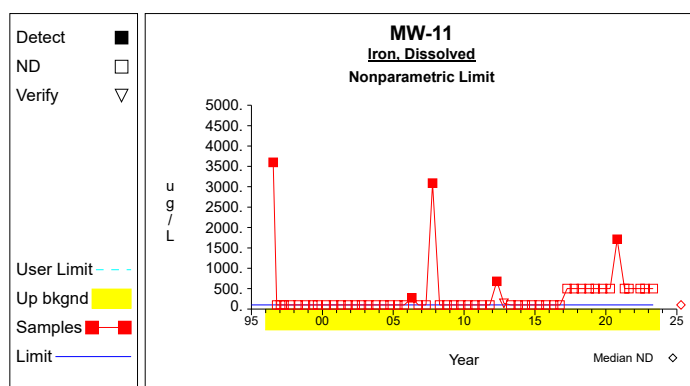
Graph 9



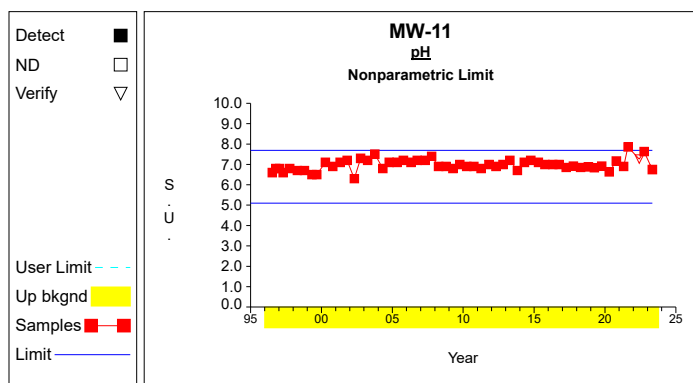
Graph 10



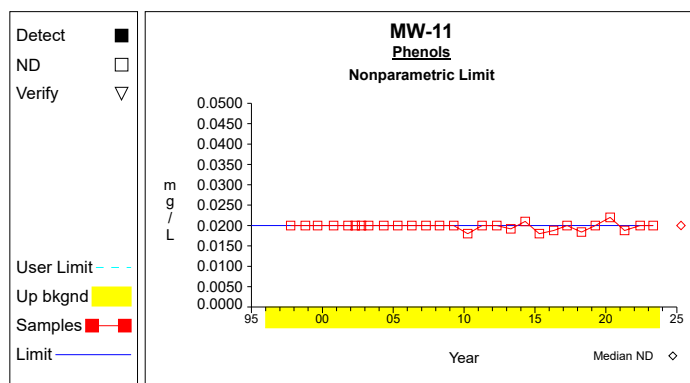
Graph 11



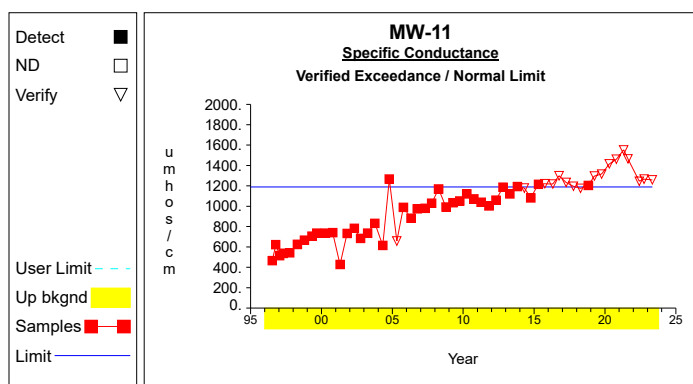
Graph 12



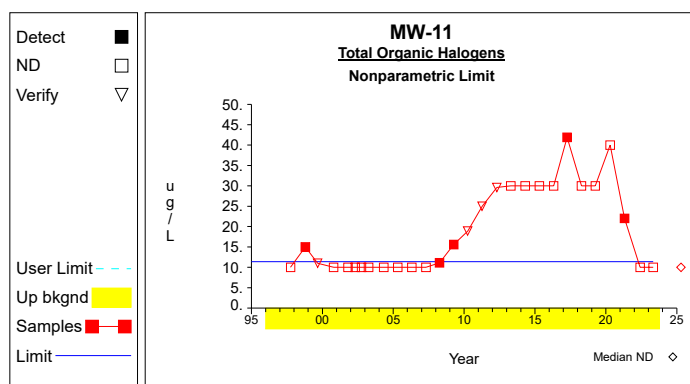
Graph 13



Graph 14

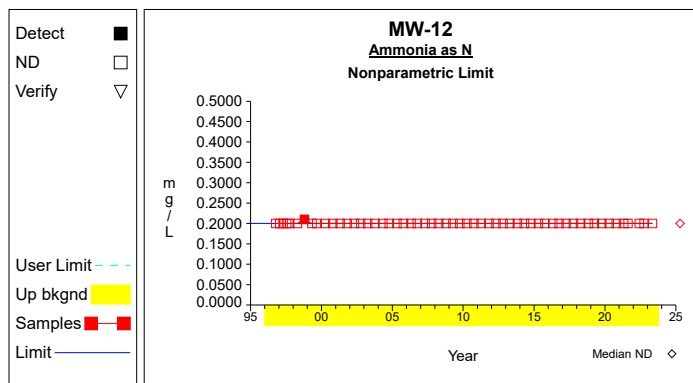


Graph 15

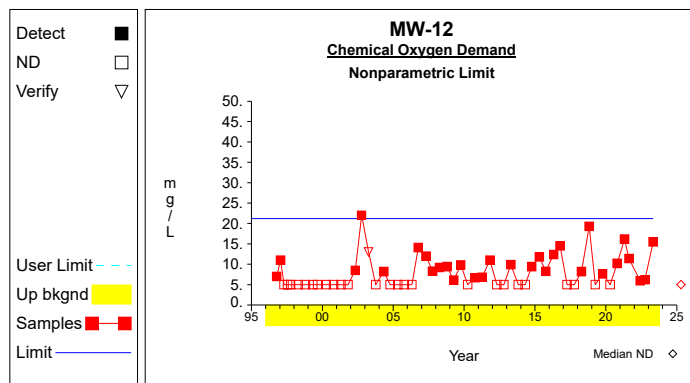


Graph 16

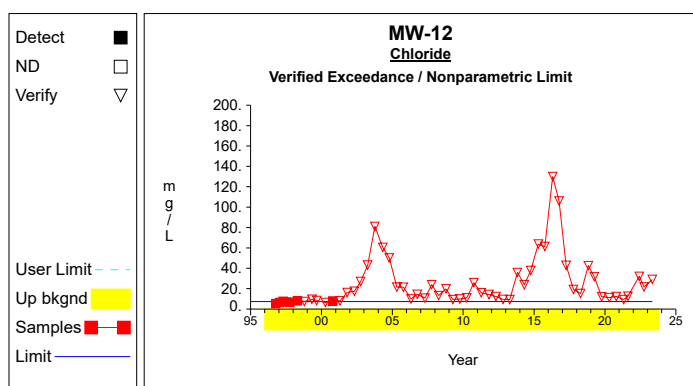
Up vs. Down Prediction Limits



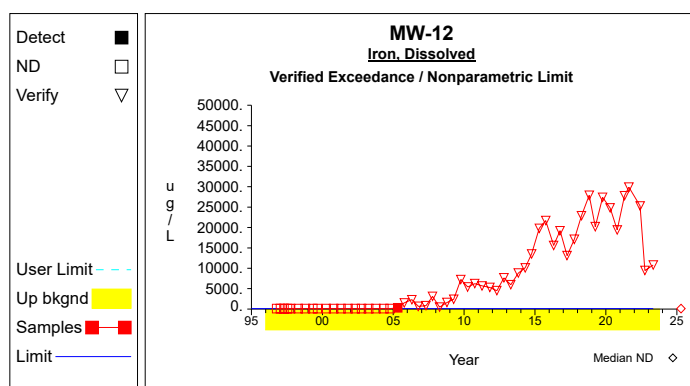
Graph 17



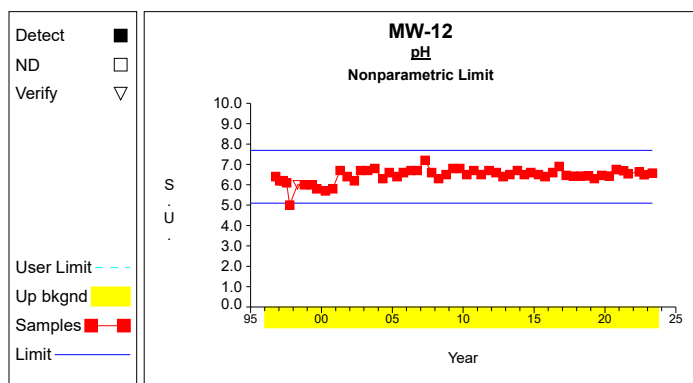
Graph 18



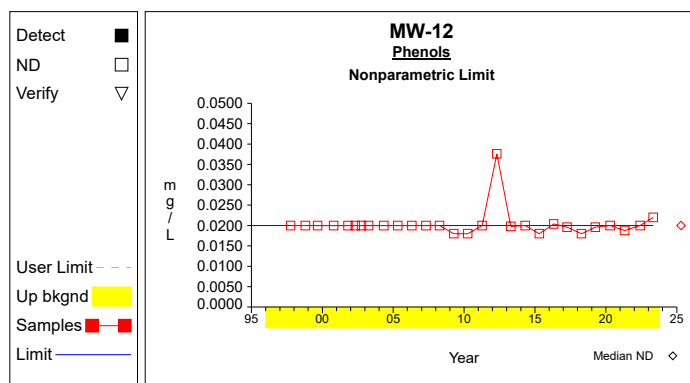
Graph 19



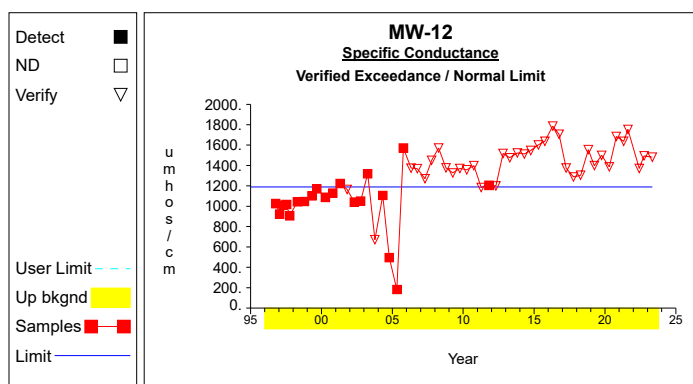
Graph 20



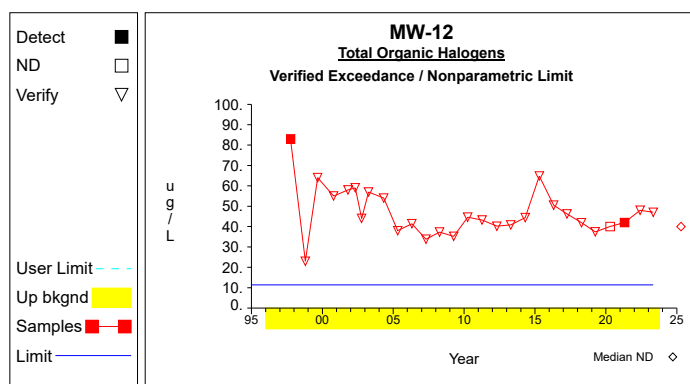
Graph 21



Graph 22

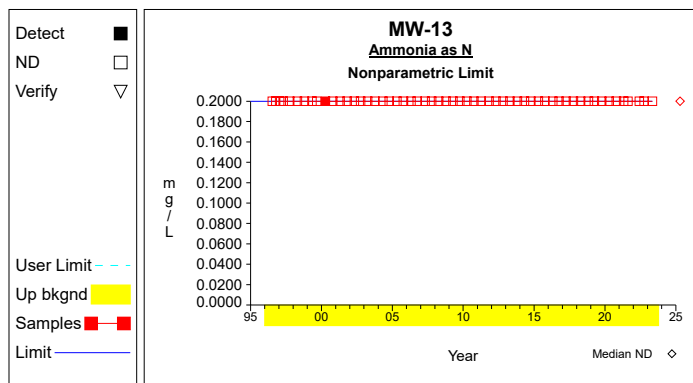


Graph 23

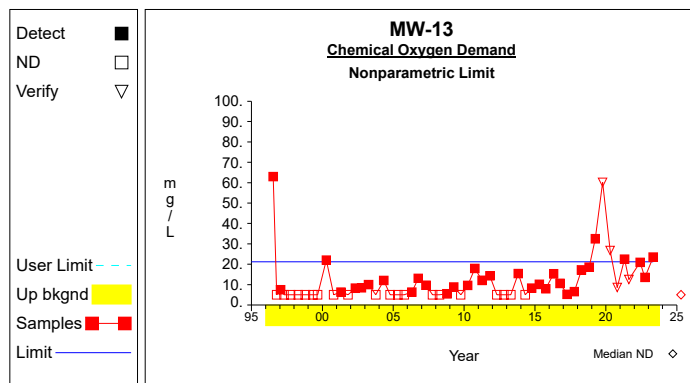


Graph 24

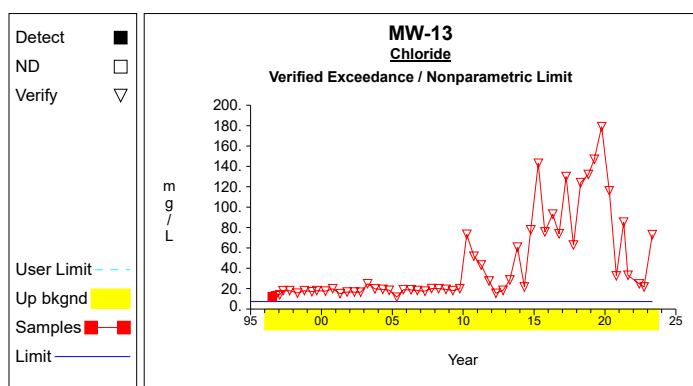
Up vs. Down Prediction Limits



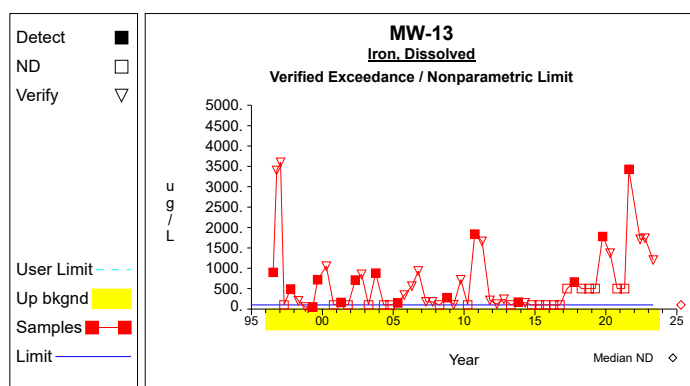
Graph 25



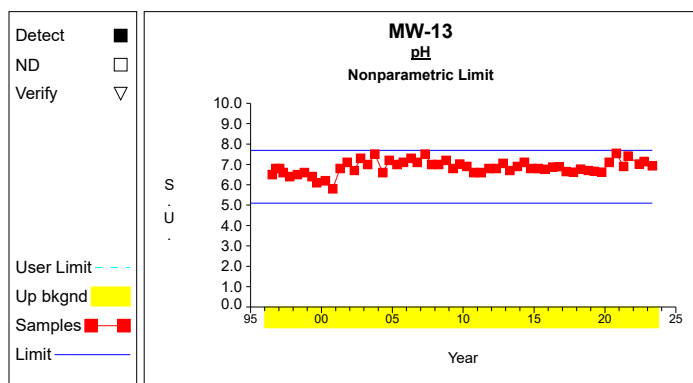
Graph 26



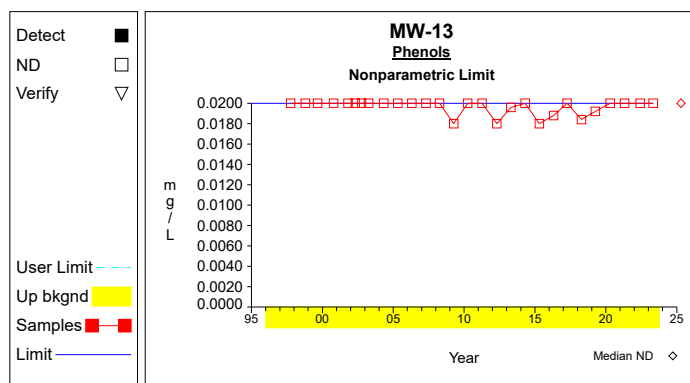
Graph 27



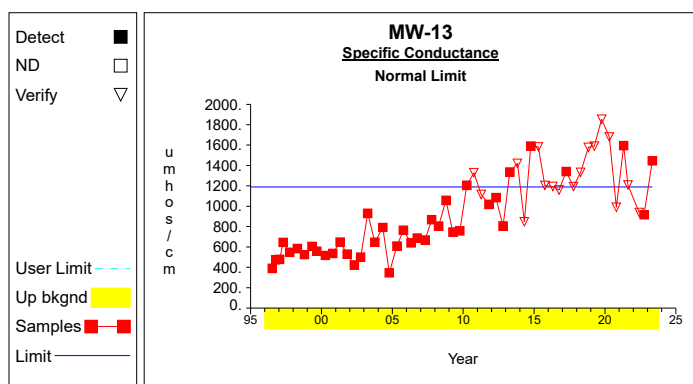
Graph 28



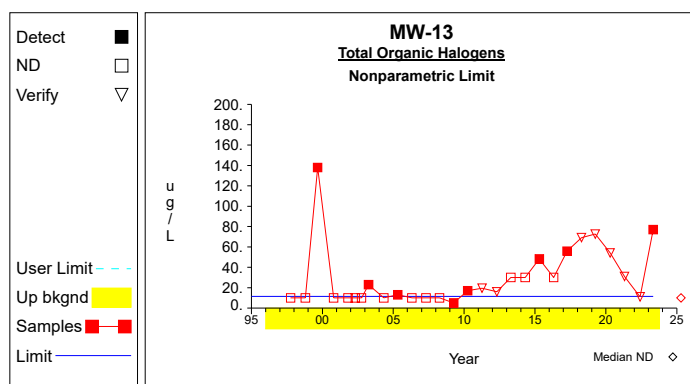
Graph 29



Graph 30

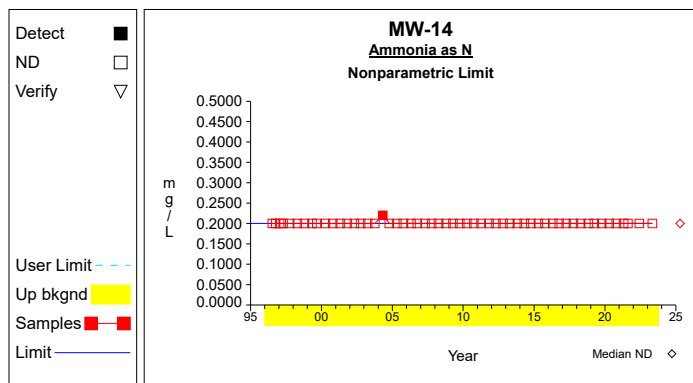


Graph 31

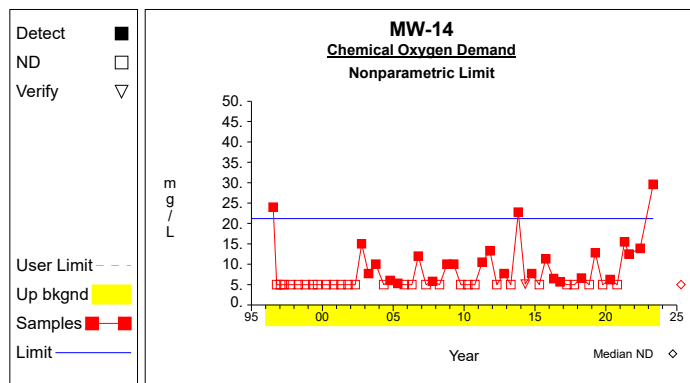


Graph 32

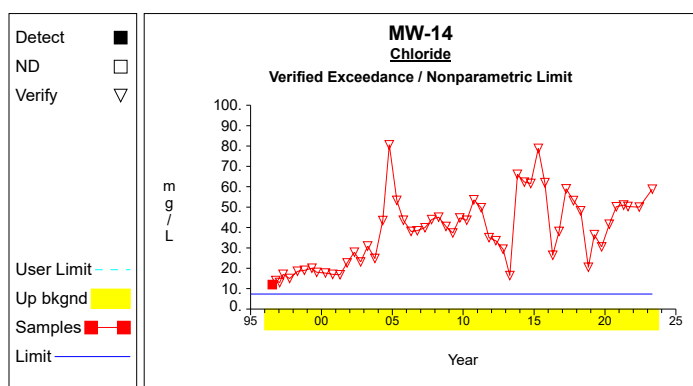
Up vs. Down Prediction Limits



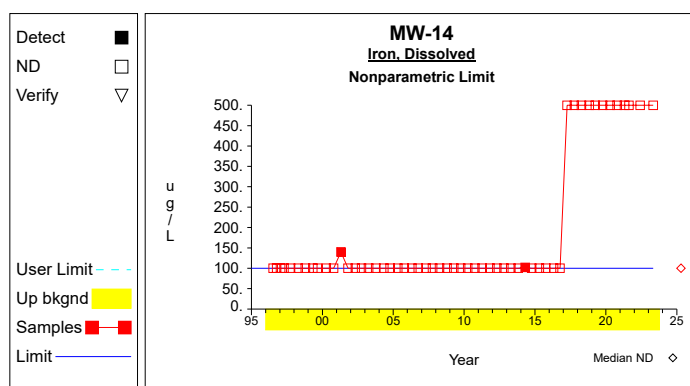
Graph 33



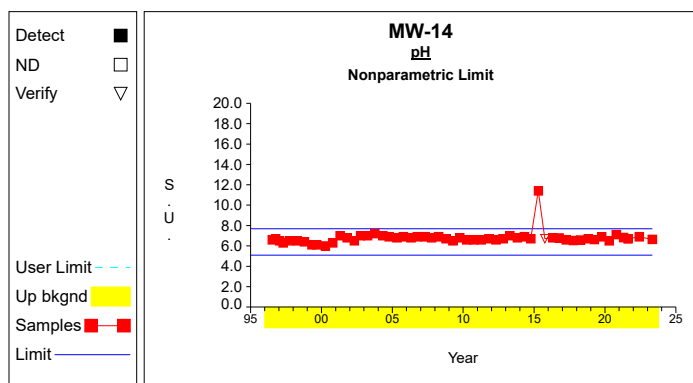
Graph 34



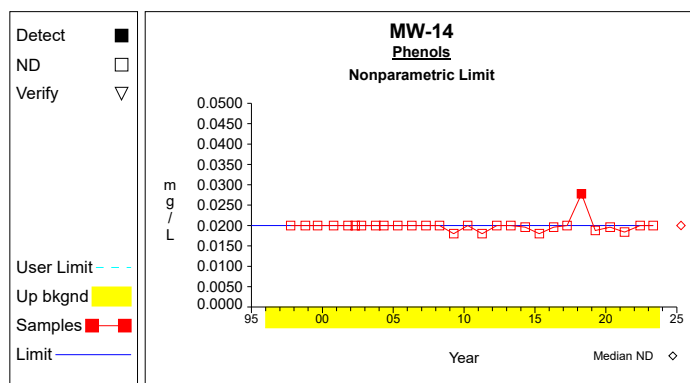
Graph 35



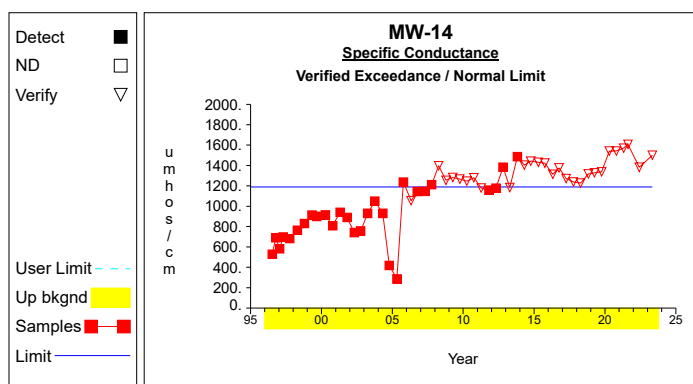
Graph 36



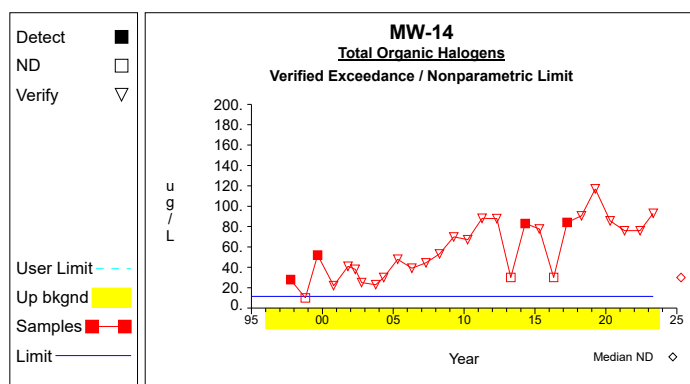
Graph 37



Graph 38

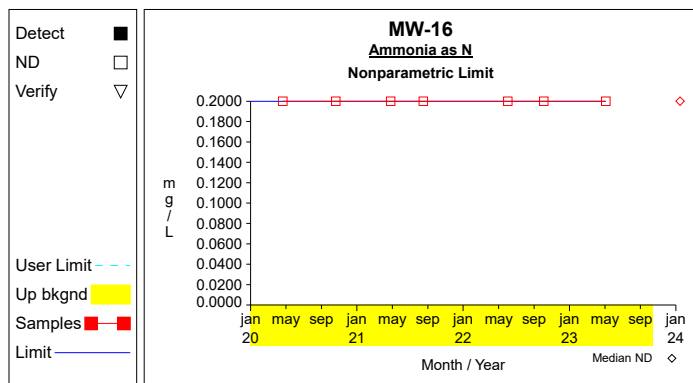


Graph 39

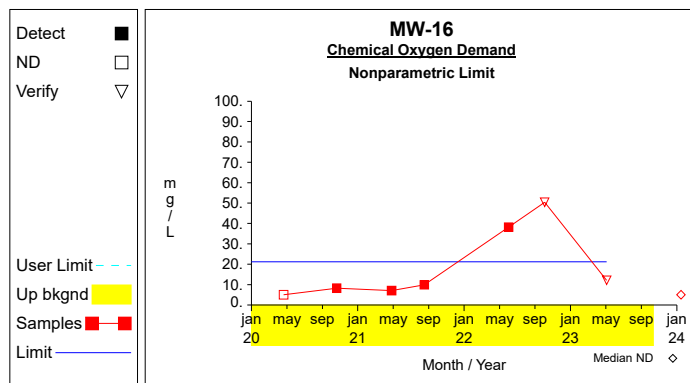


Graph 40

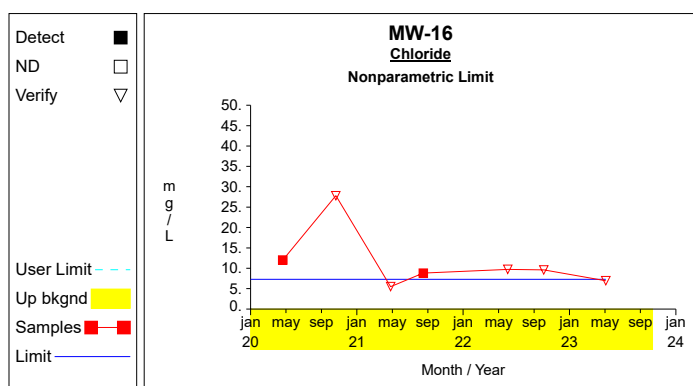
Up vs. Down Prediction Limits



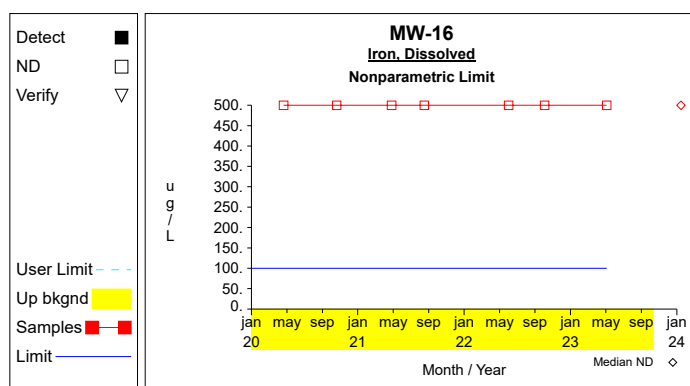
Graph 41



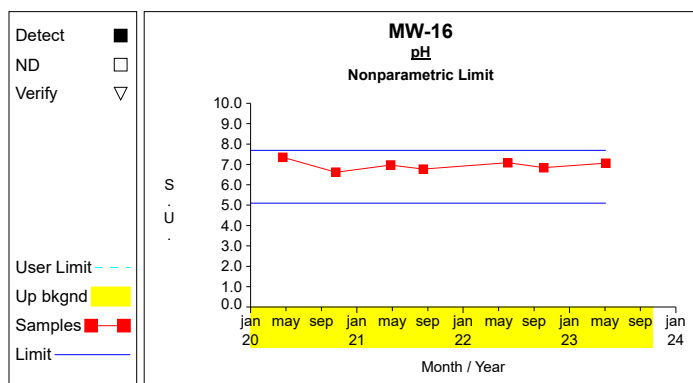
Graph 42



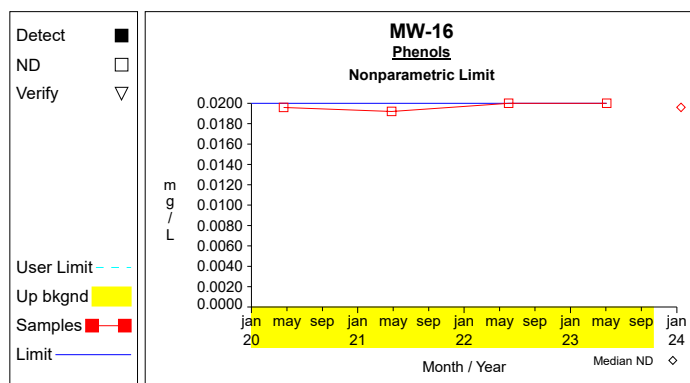
Graph 43



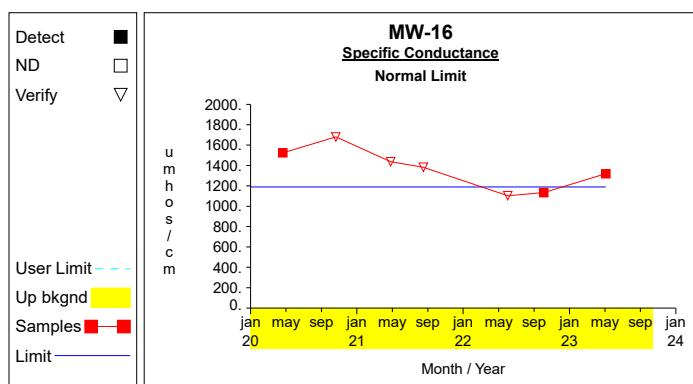
Graph 44



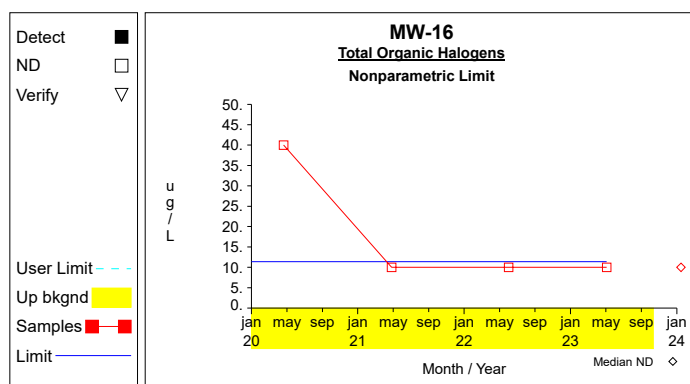
Graph 45



Graph 46

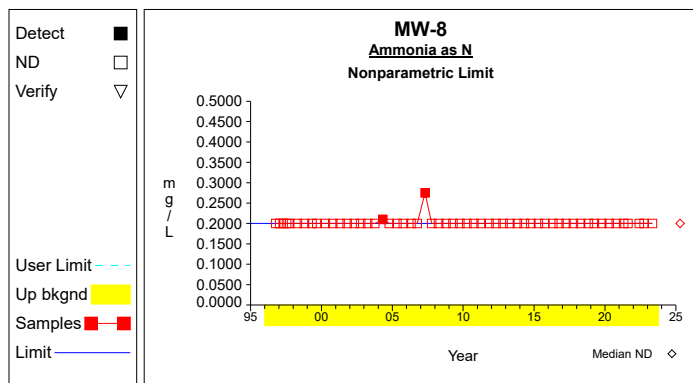


Graph 47

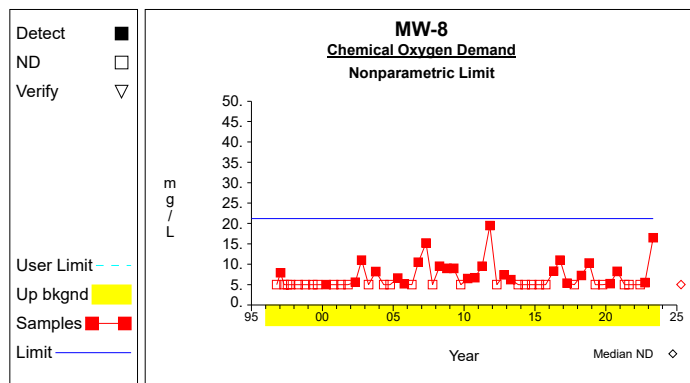


Graph 48

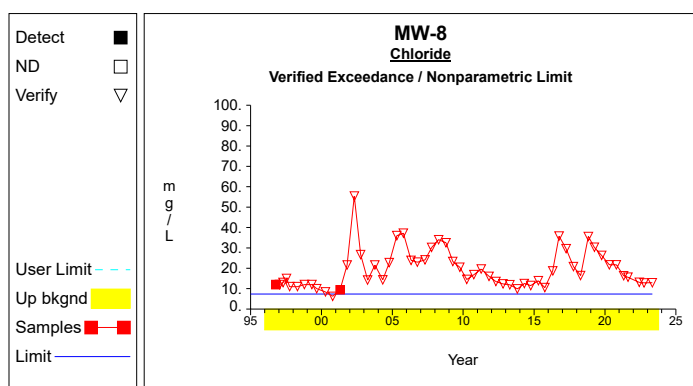
Up vs. Down Prediction Limits



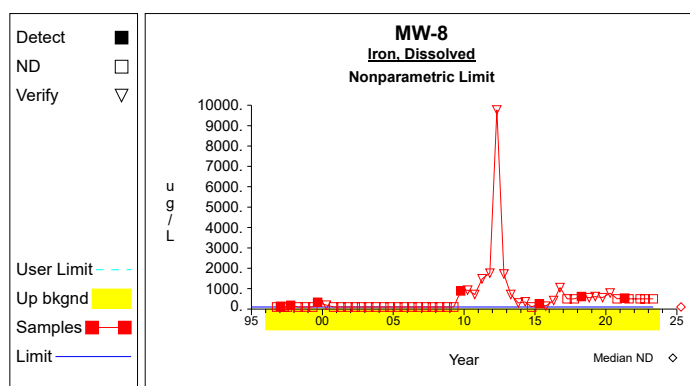
Graph 49



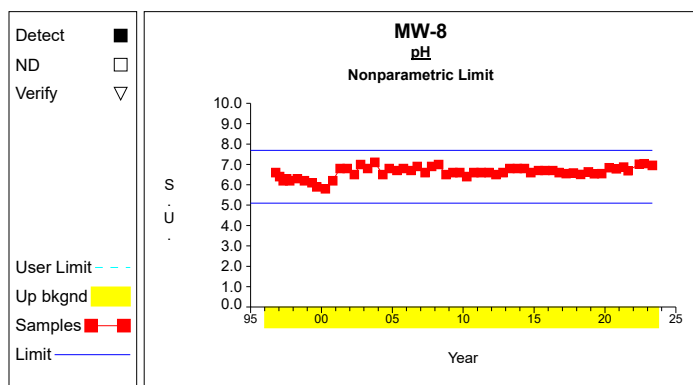
Graph 50



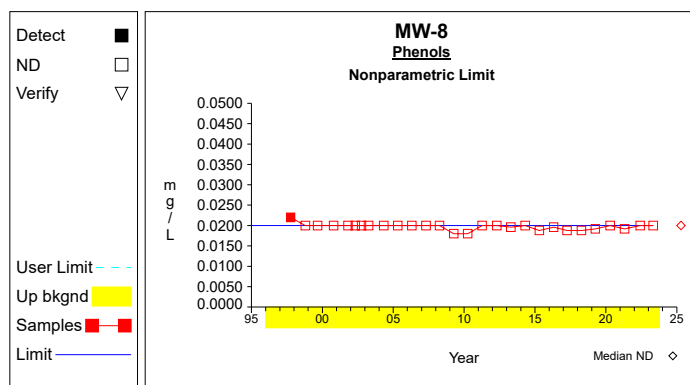
Graph 51



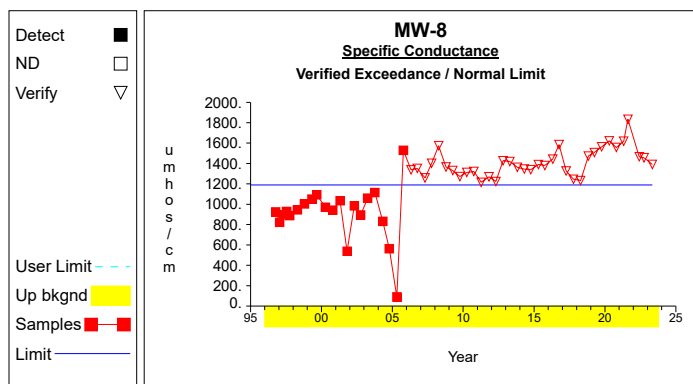
Graph 52



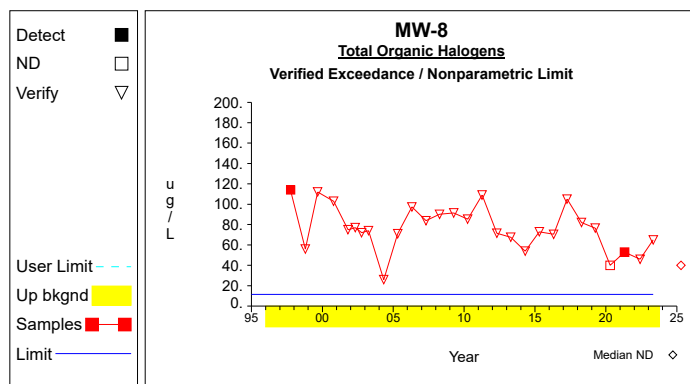
Graph 53



Graph 54

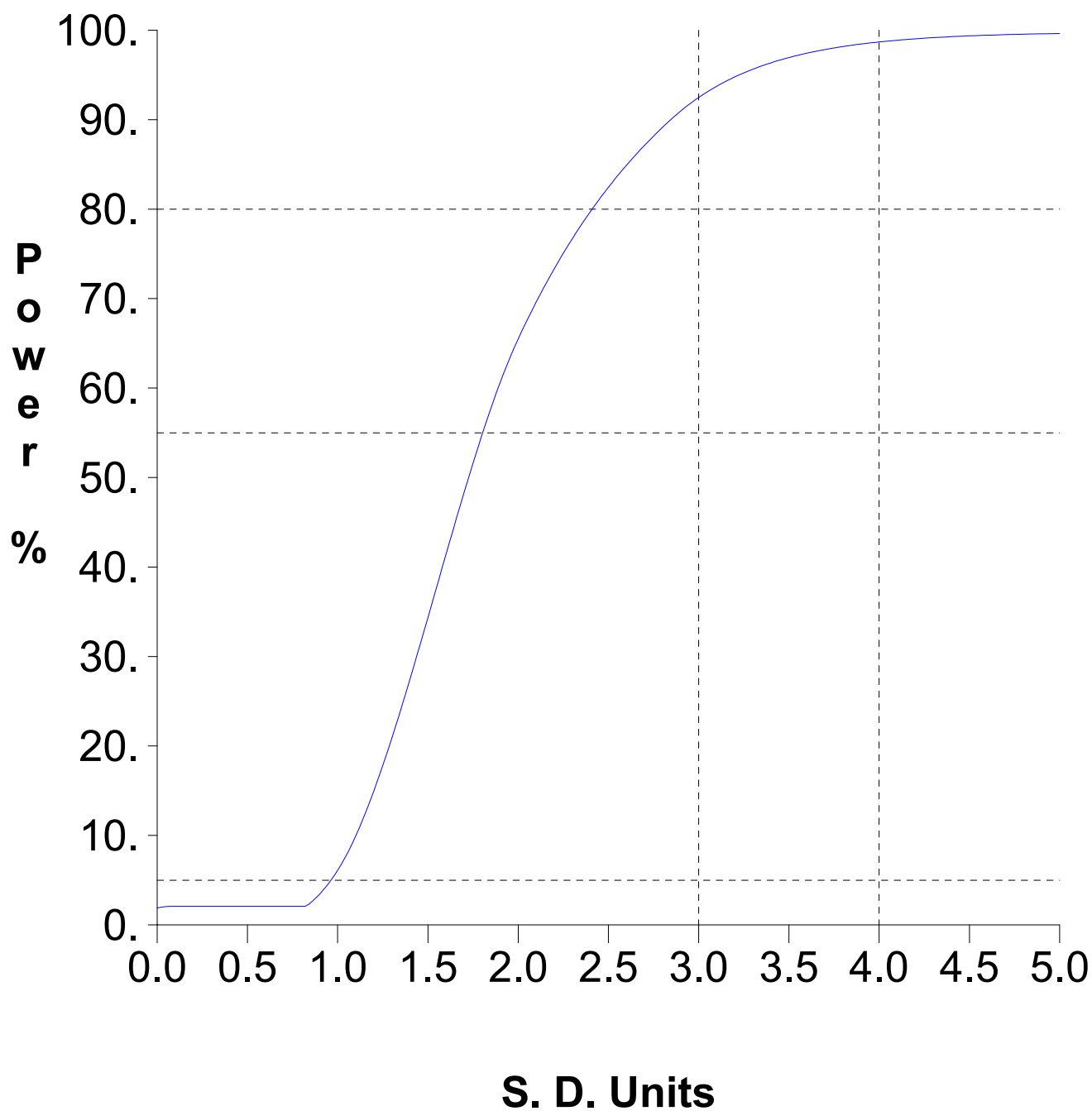


Graph 55



Graph 56

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



Attachment C

Historical VOC Detections in the Ground Water

Table 1

Historical Volatile Organic Compound Detections

Constituent	Well	Date	Identifier	Result	Limit	Units
cis-1,2-Dichloroethene	MW-10	10/27/2011		3.59	1.00	ug/L
cis-1,2-Dichloroethene	MW-10	4/16/2013		4.18	1.00	ug/L
cis-1,2-Dichloroethene	MW-10	10/28/2013		3.16	1.00	ug/L
cis-1,2-Dichloroethene	MW-10	4/24/2014		2.79	1.00	ug/L
cis-1,2-Dichloroethene	MW-10	10/06/2014		1.06	1.00	ug/L
cis-1,2-Dichloroethene	MW-10	4/21/2015		3.37	1.00	ug/L
cis-1,2-Dichloroethene	MW-10	10/05/2015		2.49	1.00	ug/L
cis-1,2-Dichloroethene	MW-10	10/05/2016		1.01	1.00	ug/L
cis-1,2-Dichloroethene	MW-10	4/04/2017		1.86	1.00	ug/L
cis-1,2-Dichloroethene	MW-10	10/10/2017		3.00	1.00	ug/L
cis-1,2-Dichloroethene	MW-10	4/11/2018		2.37	1.00	ug/L
cis-1,2-Dichloroethene	MW-10	4/20/2020		5.16	1.00	ug/L
cis-1,2-Dichloroethene	MW-10	10/20/2020		2.39	1.00	ug/L
cis-1,2-Dichloroethene	MW-10	4/26/2021		1.17	1.00	ug/L
cis-1,2-Dichloroethene	MW-10	8/16/2021		2.11	1.00	ug/L
cis-1,2-Dichloroethene	MW-10	6/01/2022		2.16	1.00	ug/L
1,1,1-Trichloroethane	MW-11	10/10/1996		1.1	1.0	ug/L
1,1,1-Trichloroethane	MW-12	10/10/1996		1.8	1.0	ug/L
1,1,1-Trichloroethane	MW-12	1/21/1997		2.1	1.0	ug/L
1,1,1-Trichloroethane	MW-12	7/15/1997		1.9	1.0	ug/L
1,2-Dichloroethane	MW-12	4/30/2004		1.33	1.00	ug/L
Benzene	MW-12	1/21/1997		2.100	1.000	ug/L
Benzene	MW-12	4/17/1997		2.200	1.000	ug/L
Benzene	MW-12	7/15/1997		2.100	1.000	ug/L
Benzene	MW-12	10/04/1997		2.400	1.000	ug/L
Benzene	MW-12	4/22/1998		2.700	1.000	ug/L
Benzene	MW-12	10/19/1998		3.100	1.000	ug/L
Benzene	MW-12	4/30/1999		3.300	1.000	ug/L
Benzene	MW-12	9/01/1999		3.000	1.000	ug/L
Benzene	MW-12	4/12/2000		3.000	1.000	ug/L
Benzene	MW-12	10/17/2000		3.500	1.000	ug/L
Benzene	MW-12	4/25/2001		2.800	1.000	ug/L
Benzene	MW-12	10/23/2001		4.300	1.000	ug/L
Benzene	MW-12	4/28/2002		3.600	1.000	ug/L
Benzene	MW-12	10/06/2002		3.590	1.000	ug/L
Benzene	MW-12	10/07/2003		2.880	1.000	ug/L
Benzene	MW-12	10/12/2004		2.740	1.000	ug/L
Benzene	MW-12	4/26/2005		2.300	1.000	ug/L
Benzene	MW-12	10/11/2005		1.760	1.000	ug/L
Benzene	MW-12	4/26/2006		1.220	1.000	ug/L
Benzene	MW-12	10/05/2006		1.110	1.000	ug/L
Benzene	MW-12	4/23/2007		1.330	1.000	ug/L
Benzene	MW-12	10/09/2007		1.690	1.000	ug/L
Benzene	MW-12	4/07/2008		1.240	1.000	ug/L
Benzene	MW-12	10/14/2008		1.200	1.000	ug/L
Benzene	MW-12	4/07/2009		1.410	1.000	ug/L
Benzene	MW-12	10/05/2009		1.390	1.000	ug/L
Benzene	MW-12	4/01/2010		1.390	1.000	ug/L
Benzene	MW-12	10/01/2010		1.240	1.000	ug/L
Benzene	MW-12	4/07/2011		1.300	1.000	ug/L
Benzene	MW-12	10/27/2011		.920	.500	ug/L
Benzene	MW-12	4/23/2012		.940	.500	ug/L
Benzene	MW-12	10/23/2012		.920	.500	ug/L
Benzene	MW-12	4/16/2013		1.050	1.000	ug/L
Benzene	MW-12	10/28/2013		1.200	1.000	ug/L
Benzene	MW-12	4/24/2014		1.330	1.000	ug/L
Benzene	MW-12	10/06/2014		1.070	1.000	ug/L
Benzene	MW-12	4/21/2015		1.320	1.000	ug/L
Benzene	MW-12	10/05/2015		1.620	1.000	ug/L
Benzene	MW-12	4/26/2016		1.490	1.000	ug/L
Benzene	MW-12	10/05/2016		1.350	1.000	ug/L
Benzene	MW-12	4/04/2017		1.340	1.000	ug/L
Benzene	MW-12	10/10/2017		1.650	1.000	ug/L
Benzene	MW-12	4/11/2018		1.610	1.000	ug/L
Benzene	MW-12	10/30/2018		1.520	1.000	ug/L
Benzene	MW-12	4/01/2019		1.450	1.000	ug/L
Benzene	MW-12	10/08/2019		1.870	1.000	ug/L
Benzene	MW-12	4/20/2020		1.860	1.000	ug/L
Benzene	MW-12	10/20/2020		2.010	1.000	ug/L
Benzene	MW-12	4/26/2021		1.840	1.000	ug/L
Benzene	MW-12	8/16/2021		1.950	1.000	ug/L
Benzene	MW-12	6/01/2022		.784	.500	ug/L
Benzene	MW-12	10/03/2022		1.460	1.000	ug/L
Benzene	MW-12	5/03/2023		1.270	.500	ug/L
Benzene	MW-12	10/11/2023		1.160	.500	ug/L
cis-1,2-Dichloroethene	MW-12	10/27/2011		33.0	1.0	ug/L

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

Table 1

Historical Volatile Organic Compound Detections

Constituent	Well	Date	Identifier	Result	Limit	Units
cis-1,2-Dichloroethene	MW-12	4/16/2013		58.3	1.0	ug/L
cis-1,2-Dichloroethene	MW-12	10/28/2013		51.7	1.0	ug/L
cis-1,2-Dichloroethene	MW-12	4/24/2014		57.3	1.0	ug/L
cis-1,2-Dichloroethene	MW-12	10/06/2014		38.7	1.0	ug/L
cis-1,2-Dichloroethene	MW-12	4/21/2015		40.6	1.0	ug/L
cis-1,2-Dichloroethene	MW-12	10/05/2015		55.9	1.0	ug/L
cis-1,2-Dichloroethene	MW-12	4/26/2016		42.8	1.0	ug/L
cis-1,2-Dichloroethene	MW-12	10/05/2016		35.7	1.0	ug/L
cis-1,2-Dichloroethene	MW-12	4/04/2017		37.4	1.0	ug/L
cis-1,2-Dichloroethene	MW-12	10/10/2017		48.9	1.0	ug/L
cis-1,2-Dichloroethene	MW-12	4/11/2018		50.4	1.0	ug/L
cis-1,2-Dichloroethene	MW-12	10/30/2018		29.6	1.0	ug/L
cis-1,2-Dichloroethene	MW-12	4/01/2019		34.3	1.0	ug/L
cis-1,2-Dichloroethene	MW-12	10/08/2019		47.3	1.0	ug/L
cis-1,2-Dichloroethene	MW-12	4/20/2020		52.4	1.0	ug/L
cis-1,2-Dichloroethene	MW-12	10/20/2020		55.1	1.0	ug/L
cis-1,2-Dichloroethene	MW-12	4/26/2021		49.0	1.0	ug/L
cis-1,2-Dichloroethene	MW-12	8/16/2021		64.7	1.0	ug/L
cis-1,2-Dichloroethene	MW-12	6/01/2022		31.0	1.0	ug/L
cis-1,2-Dichloroethene	MW-12	10/03/2022		35.2	1.0	ug/L
cis-1,2-Dichloroethene	MW-12	5/03/2023		31.9	1.0	ug/L
cis-1,2-Dichloroethene	MW-12	10/11/2023		31.3	1.0	ug/L
Trichloroethene	MW-12	10/10/1996		2.80	1.00	ug/L
Trichloroethene	MW-12	1/21/1997		5.50	1.00	ug/L
Trichloroethene	MW-12	4/17/1997		4.90	1.00	ug/L
Trichloroethene	MW-12	7/15/1997		4.70	1.00	ug/L
Trichloroethene	MW-12	10/04/1997		4.70	1.00	ug/L
Trichloroethene	MW-12	4/22/1998		4.80	1.00	ug/L
Trichloroethene	MW-12	10/19/1998		5.40	1.00	ug/L
Trichloroethene	MW-12	4/30/1999		5.60	1.00	ug/L
Trichloroethene	MW-12	9/01/1999		4.80	1.00	ug/L
Trichloroethene	MW-12	4/12/2000		5.30	1.00	ug/L
Trichloroethene	MW-12	10/17/2000		5.40	1.00	ug/L
Trichloroethene	MW-12	4/25/2001		4.70	1.00	ug/L
Trichloroethene	MW-12	10/23/2001		5.60	1.00	ug/L
Trichloroethene	MW-12	4/28/2002		4.60	1.00	ug/L
Trichloroethene	MW-12	10/06/2002		5.35	1.00	ug/L
Trichloroethene	MW-12	10/07/2003		3.93	1.00	ug/L
Trichloroethene	MW-12	4/30/2004		6.57	1.00	ug/L
Trichloroethene	MW-12	10/12/2004		4.05	1.00	ug/L
Trichloroethene	MW-12	4/26/2005		3.60	1.00	ug/L
Trichloroethene	MW-12	10/11/2005		4.19	1.00	ug/L
Trichloroethene	MW-12	4/26/2006		2.95	1.00	ug/L
Trichloroethene	MW-12	10/05/2006		1.88	1.00	ug/L
Trichloroethene	MW-12	4/23/2007		1.36	1.00	ug/L
Trichloroethene	MW-12	10/09/2007		1.76	1.00	ug/L
Trichloroethene	MW-12	4/07/2008		1.33	1.00	ug/L
Trichloroethene	MW-12	10/14/2008		1.33	1.00	ug/L
Trichloroethene	MW-12	4/07/2009		1.31	1.00	ug/L
Trichloroethene	MW-12	10/05/2009		2.32	1.00	ug/L
Trichloroethene	MW-12	4/01/2010		2.68	1.00	ug/L
Trichloroethene	MW-12	10/01/2010		1.93	1.00	ug/L
Trichloroethene	MW-12	4/07/2011		2.40	1.00	ug/L
Trichloroethene	MW-12	10/27/2011		2.29	1.00	ug/L
Trichloroethene	MW-12	4/23/2012		2.04	1.00	ug/L
Trichloroethene	MW-12	10/23/2012		2.60	1.00	ug/L
Trichloroethene	MW-12	4/16/2013		3.03	1.00	ug/L
Trichloroethene	MW-12	10/28/2013		2.44	1.00	ug/L
Trichloroethene	MW-12	4/24/2014		2.46	1.00	ug/L
Trichloroethene	MW-12	10/06/2014		1.88	1.00	ug/L
Trichloroethene	MW-12	4/21/2015		1.77	1.00	ug/L
Trichloroethene	MW-12	10/05/2015		2.37	1.00	ug/L
Trichloroethene	MW-12	10/05/2016		1.36	1.00	ug/L
Trichloroethene	MW-12	4/04/2017		1.41	1.00	ug/L
Trichloroethene	MW-12	10/10/2017		1.50	1.00	ug/L
Trichloroethene	MW-12	4/11/2018		1.23	1.00	ug/L
Trichloroethene	MW-12	4/01/2019		1.18	1.00	ug/L
Trichloroethene	MW-12	10/20/2020		1.54	1.00	ug/L
Vinyl Chloride	MW-12	10/27/2011		1.46	1.00	ug/L
Vinyl Chloride	MW-12	4/16/2013		2.51	1.00	ug/L
Vinyl Chloride	MW-12	10/28/2013		2.15	1.00	ug/L
Vinyl Chloride	MW-12	4/24/2014		2.70	1.00	ug/L
Vinyl Chloride	MW-12	10/06/2014		2.36	1.00	ug/L
Vinyl Chloride	MW-12	4/21/2015		2.03	1.00	ug/L
Vinyl Chloride	MW-12	10/05/2015		2.59	1.00	ug/L
Vinyl Chloride	MW-12	4/26/2016		2.73	1.00	ug/L

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

Table 1

Historical Volatile Organic Compound Detections

Constituent	Well	Date	Identifier	Result	Limit	Units
Vinyl Chloride	MW-12	10/05/2016		4.56	1.00	ug/L
Vinyl Chloride	MW-12	4/04/2017		3.29	1.00	ug/L
Vinyl Chloride	MW-12	10/10/2017		5.18	1.00	ug/L
Vinyl Chloride	MW-12	4/11/2018		4.48	1.00	ug/L
Vinyl Chloride	MW-12	10/30/2018		9.14	1.00	ug/L
Vinyl Chloride	MW-12	4/01/2019		8.96	1.00	ug/L
Vinyl Chloride	MW-12	10/08/2019		6.50	1.00	ug/L
Vinyl Chloride	MW-12	4/20/2020		4.90	1.00	ug/L
Vinyl Chloride	MW-12	10/20/2020		5.41	1.00	ug/L
Vinyl Chloride	MW-12	4/26/2021		3.57	1.00	ug/L
Vinyl Chloride	MW-12	8/16/2021		4.08	1.00	ug/L
Vinyl Chloride	MW-12	6/01/2022		1.56	1.00	ug/L
Vinyl Chloride	MW-12	10/03/2022		7.15	1.00	ug/L
Vinyl Chloride	MW-12	5/03/2023		4.19	1.00	ug/L
Vinyl Chloride	MW-12	10/11/2023		3.56	1.00	ug/L
cis-1,2-Dichloroethene	MW-13	10/27/2011		5.56	1.00	ug/L
1,1,1-Trichloroethane	MW-14	10/10/1996		4.20	1.00	ug/L
1,1,1-Trichloroethane	MW-14	1/21/1997		3.30	1.00	ug/L
1,1,1-Trichloroethane	MW-14	10/12/2004		1.79	1.00	ug/L
1,1,1-Trichloroethane	MW-14	4/26/2005		1.42	1.00	ug/L
1,1,1-Trichloroethane	MW-14	10/11/2005		1.29	1.00	ug/L
1,1,1-Trichloroethane	MW-14	10/05/2006		1.13	1.00	ug/L
1,1,1-Trichloroethane	MW-14	4/23/2007		1.24	1.00	ug/L
1,1,1-Trichloroethane	MW-14	10/09/2007		1.04	1.00	ug/L
1,2-Dichloroethane	MW-14	10/04/1997		.41	.40	ug/L
1,2-Dichloroethane	MW-14	10/19/1998		.54	.40	ug/L
1,2-Dichloroethane	MW-14	4/30/1999		1.10	1.00	ug/L
1,2-Dichloroethane	MW-14	4/25/2001		.40	.40	ug/L
1,2-Dichloroethane	MW-14	10/23/2001		.50	.40	ug/L
1,2-Dichloropropane	MW-14	4/04/2017		1.08	1.00	ug/L
1,2-Dichloropropane	MW-14	10/10/2017		1.42	1.00	ug/L
1,2-Dichloropropane	MW-14	4/11/2018		1.13	1.00	ug/L
1,2-Dichloropropane	MW-14	10/20/2020		1.17	1.00	ug/L
1,2-Dichloropropane	MW-14	4/26/2021		1.03	1.00	ug/L
1,2-Dichloropropane	MW-14	8/16/2021		1.55	1.00	ug/L
Benzene	MW-14	4/30/2004		2.690	.500	ug/L
Benzene	MW-14	10/01/2010		.530	.500	ug/L
Benzene	MW-14	4/07/2011		.620	.500	ug/L
Benzene	MW-14	10/27/2011		.560	.500	ug/L
Benzene	MW-14	4/23/2012		.610	.500	ug/L
Benzene	MW-14	4/04/2017		.644	.500	ug/L
Benzene	MW-14	10/10/2017		.781	.500	ug/L
Benzene	MW-14	4/11/2018		.592	.500	ug/L
Benzene	MW-14	4/01/2019		.561	.500	ug/L
Benzene	MW-14	10/08/2019		.627	.500	ug/L
Benzene	MW-14	4/20/2020		.628	.500	ug/L
Benzene	MW-14	10/20/2020		.713	.500	ug/L
cis-1,2-Dichloroethene	MW-14	10/27/2011		49.8	1.0	ug/L
cis-1,2-Dichloroethene	MW-14	4/16/2013		19.2	1.0	ug/L
cis-1,2-Dichloroethene	MW-14	10/28/2013		52.0	1.0	ug/L
cis-1,2-Dichloroethene	MW-14	4/24/2014		42.2	1.0	ug/L
cis-1,2-Dichloroethene	MW-14	10/06/2014		34.7	1.0	ug/L
cis-1,2-Dichloroethene	MW-14	4/21/2015		27.3	1.0	ug/L
cis-1,2-Dichloroethene	MW-14	10/05/2015		34.7	1.0	ug/L
cis-1,2-Dichloroethene	MW-14	4/26/2016		11.3	1.0	ug/L
cis-1,2-Dichloroethene	MW-14	10/05/2016		29.1	1.0	ug/L
cis-1,2-Dichloroethene	MW-14	4/04/2017		49.6	1.0	ug/L
cis-1,2-Dichloroethene	MW-14	10/10/2017		69.2	1.0	ug/L
cis-1,2-Dichloroethene	MW-14	4/11/2018		59.8	1.0	ug/L
cis-1,2-Dichloroethene	MW-14	10/30/2018		21.4	1.0	ug/L
cis-1,2-Dichloroethene	MW-14	4/01/2019		45.3	1.0	ug/L
cis-1,2-Dichloroethene	MW-14	10/08/2019		54.4	1.0	ug/L
cis-1,2-Dichloroethene	MW-14	4/20/2020		63.6	1.0	ug/L
cis-1,2-Dichloroethene	MW-14	10/20/2020		73.2	1.0	ug/L
cis-1,2-Dichloroethene	MW-14	4/26/2021		56.1	1.0	ug/L
cis-1,2-Dichloroethene	MW-14	8/16/2021		74.3	1.0	ug/L
cis-1,2-Dichloroethene	MW-14	6/01/2022		33.3	1.0	ug/L
cis-1,2-Dichloroethene	MW-14	5/03/2023		36.6	1.0	ug/L
cis-1,2-Dichloroethene	MW-14	10/11/2023		41.6	1.0	ug/L
Methylene Chloride	MW-14	10/27/2011		7.72	1.00	ug/L
Methylene Chloride	MW-14	10/28/2013		7.93	1.00	ug/L
Methylene Chloride	MW-14	4/24/2014		7.85	1.00	ug/L
Methylene Chloride	MW-14	10/06/2014		6.97	1.00	ug/L
Methylene Chloride	MW-14	10/05/2015		7.07	1.00	ug/L
Methylene Chloride	MW-14	10/05/2016		10.20	1.00	ug/L
Trichloroethene	MW-14	7/12/1996		3.10	1.00	ug/L

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

Table 1

Historical Volatile Organic Compound Detections

Constituent	Well	Date	Identifier	Result	Limit	Units
Trichloroethene	MW-14	1/21/1997		1.20	1.00	ug/L
Trichloroethene	MW-14	4/17/1997		1.50	1.00	ug/L
Trichloroethene	MW-14	10/04/1997		1.30	1.00	ug/L
Trichloroethene	MW-14	4/22/1998		1.10	1.00	ug/L
Trichloroethene	MW-14	10/19/1998		1.60	1.00	ug/L
Trichloroethene	MW-14	4/30/1999		2.10	1.00	ug/L
Trichloroethene	MW-14	9/01/1999		1.40	1.00	ug/L
Trichloroethene	MW-14	4/12/2000		1.70	1.00	ug/L
Trichloroethene	MW-14	4/25/2001		1.10	1.00	ug/L
Trichloroethene	MW-14	10/23/2001		1.10	1.00	ug/L
Trichloroethene	MW-14	4/28/2002		1.10	1.00	ug/L
Trichloroethene	MW-14	4/30/2004		4.25	1.00	ug/L
Trichloroethene	MW-14	10/05/2009		1.10	1.00	ug/L
Trichloroethene	MW-14	10/01/2010		1.09	1.00	ug/L
Trichloroethene	MW-14	4/07/2011		1.43	1.00	ug/L
Trichloroethene	MW-14	10/27/2011		1.40	1.00	ug/L
Trichloroethene	MW-14	4/23/2012		3.52	1.00	ug/L
Trichloroethene	MW-14	10/23/2012		2.10	1.00	ug/L
Trichloroethene	MW-14	10/28/2013		1.75	1.00	ug/L
Trichloroethene	MW-14	4/24/2014		1.14	1.00	ug/L
Trichloroethene	MW-14	4/11/2018		1.13	1.00	ug/L
Tetrachloroethene	MW-16	8/16/2021		1	1	ug/L
1,1,1-Trichloroethane	MW-17	4/30/2004		1.44	1.00	ug/L
1,2-Dichloroethane	MW-7	7/12/1996		10.60	1.00	ug/L
1,2-Dichloroethane	MW-7	10/10/1996		16.60	1.00	ug/L
1,2-Dichloroethane	MW-7	10/11/2023		1.29	1.00	ug/L
1,2-Dichloropropane	MW-7	10/27/2011		7.44	1.00	ug/L
1,2-Dichloropropane	MW-7	4/16/2013		10.10	1.00	ug/L
1,2-Dichloropropane	MW-7	10/28/2013		10.60	1.00	ug/L
1,2-Dichloropropane	MW-7	4/24/2014		10.80	1.00	ug/L
1,2-Dichloropropane	MW-7	10/06/2014		8.45	1.00	ug/L
1,2-Dichloropropane	MW-7	4/21/2015		9.46	1.00	ug/L
1,2-Dichloropropane	MW-7	10/05/2015		11.20	1.00	ug/L
1,2-Dichloropropane	MW-7	4/26/2016		8.86	1.00	ug/L
1,2-Dichloropropane	MW-7	10/05/2016		3.19	1.00	ug/L
1,2-Dichloropropane	MW-7	4/04/2017		6.16	1.00	ug/L
1,2-Dichloropropane	MW-7	10/10/2017		9.31	1.00	ug/L
1,2-Dichloropropane	MW-7	4/11/2018		9.81	1.00	ug/L
1,2-Dichloropropane	MW-7	10/30/2018		8.62	1.00	ug/L
1,2-Dichloropropane	MW-7	4/01/2019		5.10	1.00	ug/L
1,2-Dichloropropane	MW-7	10/08/2019		7.25	1.00	ug/L
1,2-Dichloropropane	MW-7	4/20/2020		10.00	1.00	ug/L
1,2-Dichloropropane	MW-7	10/20/2020		9.41	1.00	ug/L
1,2-Dichloropropane	MW-7	4/26/2021		7.34	1.00	ug/L
1,2-Dichloropropane	MW-7	8/16/2021		13.50	1.00	ug/L
1,2-Dichloropropane	MW-7	6/01/2022		10.60	1.00	ug/L
1,2-Dichloropropane	MW-7	10/03/2022		11.80	1.00	ug/L
1,2-Dichloropropane	MW-7	5/03/2023		12.50	1.00	ug/L
1,2-Dichloropropane	MW-7	10/11/2023		12.90	1.00	ug/L
Benzene	MW-7	10/04/1997		.750	.500	ug/L
Benzene	MW-7	4/22/1998		.740	.500	ug/L
Benzene	MW-7	10/19/1998		.810	.500	ug/L
Benzene	MW-7	4/30/1999		.800	.500	ug/L
Benzene	MW-7	4/12/2000		.800	.500	ug/L
Benzene	MW-7	4/25/2001		.600	.500	ug/L
Benzene	MW-7	10/23/2001		1.000	1.000	ug/L
Benzene	MW-7	4/28/2002		.500	.500	ug/L
Benzene	MW-7	10/07/2003		.560	.500	ug/L
Benzene	MW-7	4/30/2004		.600	.500	ug/L
Benzene	MW-7	10/12/2004		.660	.500	ug/L
Benzene	MW-7	10/05/2006		.540	.500	ug/L
Benzene	MW-7	4/23/2007		.830	.500	ug/L
Benzene	MW-7	10/09/2007		1.110	1.000	ug/L
Benzene	MW-7	4/07/2008		.724	.500	ug/L
Benzene	MW-7	10/14/2008		1.010	1.000	ug/L
Benzene	MW-7	4/07/2009		.680	.500	ug/L
Benzene	MW-7	10/05/2009		1.420	1.000	ug/L
Benzene	MW-7	4/01/2010		2.040	.500	ug/L
Benzene	MW-7	10/01/2010		2.050	.500	ug/L
Benzene	MW-7	4/07/2011		2.160	.500	ug/L
Benzene	MW-7	10/27/2011		1.760	1.000	ug/L
Benzene	MW-7	4/23/2012		2.660	.500	ug/L
Benzene	MW-7	10/23/2012		1.660	1.000	ug/L
Benzene	MW-7	4/16/2013		2.170	.500	ug/L
Benzene	MW-7	10/28/2013		1.230	1.000	ug/L
Benzene	MW-7	4/24/2014		.549	.500	ug/L

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

Table 1

Historical Volatile Organic Compound Detections

Constituent	Well	Date	Identifier	Result	Limit	Units
Benzene	MW-7	10/06/2014		.913	.500	ug/L
Benzene	MW-7	4/21/2015		.694	.500	ug/L
Benzene	MW-7	10/05/2015		.721	.500	ug/L
Benzene	MW-7	4/26/2016		.674	.500	ug/L
Benzene	MW-7	4/04/2017		.662	.500	ug/L
Benzene	MW-7	10/10/2017		1.220	1.000	ug/L
Benzene	MW-7	4/11/2018		.958	.500	ug/L
Benzene	MW-7	10/30/2018		.896	.500	ug/L
Benzene	MW-7	4/01/2019		.580	.500	ug/L
Benzene	MW-7	10/08/2019		.655	.500	ug/L
Benzene	MW-7	4/20/2020		.813	.500	ug/L
Benzene	MW-7	10/20/2020		.949	.500	ug/L
Benzene	MW-7	8/16/2021		.783	.500	ug/L
Benzene	MW-7	5/03/2023		.716	.500	ug/L
Benzene	MW-7	10/11/2023		.878	.500	ug/L
cis-1,2-Dichloroethene	MW-7	10/27/2011		88.0	1.0	ug/L
cis-1,2-Dichloroethene	MW-7	4/16/2013		159.0	1.0	ug/L
cis-1,2-Dichloroethene	MW-7	10/28/2013		145.0	1.0	ug/L
cis-1,2-Dichloroethene	MW-7	4/24/2014		132.0	1.0	ug/L
cis-1,2-Dichloroethene	MW-7	10/06/2014		138.0	1.0	ug/L
cis-1,2-Dichloroethene	MW-7	4/21/2015		159.0	1.0	ug/L
cis-1,2-Dichloroethene	MW-7	10/05/2015		160.0	1.0	ug/L
cis-1,2-Dichloroethene	MW-7	4/26/2016		128.0	1.0	ug/L
cis-1,2-Dichloroethene	MW-7	10/05/2016		46.3	1.0	ug/L
cis-1,2-Dichloroethene	MW-7	4/04/2017		112.0	1.0	ug/L
cis-1,2-Dichloroethene	MW-7	10/10/2017		158.0	1.0	ug/L
cis-1,2-Dichloroethene	MW-7	4/11/2018		152.0	1.0	ug/L
cis-1,2-Dichloroethene	MW-7	10/30/2018		113.0	1.0	ug/L
cis-1,2-Dichloroethene	MW-7	4/01/2019		66.3	1.0	ug/L
cis-1,2-Dichloroethene	MW-7	10/08/2019		117.0	1.0	ug/L
cis-1,2-Dichloroethene	MW-7	4/20/2020		193.0	1.0	ug/L
cis-1,2-Dichloroethene	MW-7	10/20/2020		198.0	1.0	ug/L
cis-1,2-Dichloroethene	MW-7	4/26/2021		112.0	1.0	ug/L
cis-1,2-Dichloroethene	MW-7	8/16/2021		240.0	1.0	ug/L
cis-1,2-Dichloroethene	MW-7	6/01/2022		147.0	1.0	ug/L
cis-1,2-Dichloroethene	MW-7	10/03/2022		168.0	1.0	ug/L
cis-1,2-Dichloroethene	MW-7	5/03/2023		174.0	1.0	ug/L
cis-1,2-Dichloroethene	MW-7	10/11/2023		203.0	1.0	ug/L
Tetrachloroethene	MW-7	10/27/2011		10.30	1.00	ug/L
Tetrachloroethene	MW-7	4/16/2013		10.60	1.00	ug/L
Tetrachloroethene	MW-7	10/28/2013		4.45	1.00	ug/L
Tetrachloroethene	MW-7	10/06/2014		9.50	1.00	ug/L
Tetrachloroethene	MW-7	4/21/2015		1.62	1.00	ug/L
Tetrachloroethene	MW-7	10/05/2015		7.31	1.00	ug/L
Tetrachloroethene	MW-7	4/26/2016		4.25	1.00	ug/L
Tetrachloroethene	MW-7	10/05/2016		3.22	1.00	ug/L
Tetrachloroethene	MW-7	4/04/2017		3.87	1.00	ug/L
Tetrachloroethene	MW-7	10/10/2017		3.75	1.00	ug/L
Tetrachloroethene	MW-7	4/11/2018		3.15	1.00	ug/L
Tetrachloroethene	MW-7	10/30/2018		2.12	1.00	ug/L
Tetrachloroethene	MW-7	4/01/2019		2.85	1.00	ug/L
Tetrachloroethene	MW-7	10/08/2019		1.23	1.00	ug/L
Tetrachloroethene	MW-7	4/20/2020		1.90	1.00	ug/L
Tetrachloroethene	MW-7	4/26/2021		1.66	1.00	ug/L
Tetrachloroethene	MW-7	8/16/2021		5.30	1.00	ug/L
Tetrachloroethene	MW-7	6/01/2022		2.89	1.00	ug/L
Tetrachloroethene	MW-7	10/03/2022		2.69	1.00	ug/L
Tetrachloroethene	MW-7	5/03/2023		2.67	1.00	ug/L
Tetrachloroethene	MW-7	10/11/2023		1.75	1.00	ug/L
Trichloroethene	MW-7	7/12/1996		4.70	1.00	ug/L
Trichloroethene	MW-7	10/10/1996		5.10	1.00	ug/L
Trichloroethene	MW-7	1/21/1997		6.60	1.00	ug/L
Trichloroethene	MW-7	4/17/1997		12.20	1.00	ug/L
Trichloroethene	MW-7	10/04/1997		9.80	1.00	ug/L
Trichloroethene	MW-7	4/22/1998		10.90	1.00	ug/L
Trichloroethene	MW-7	10/19/1998		8.20	1.00	ug/L
Trichloroethene	MW-7	4/30/1999		12.50	1.00	ug/L
Trichloroethene	MW-7	9/01/1999		8.20	1.00	ug/L
Trichloroethene	MW-7	4/12/2000		8.40	1.00	ug/L
Trichloroethene	MW-7	10/17/2000		6.40	1.00	ug/L
Trichloroethene	MW-7	4/25/2001		8.40	1.00	ug/L
Trichloroethene	MW-7	10/23/2001		10.70	1.00	ug/L
Trichloroethene	MW-7	4/28/2002		12.00	1.00	ug/L
Trichloroethene	MW-7	10/06/2002		13.40	1.00	ug/L
Trichloroethene	MW-7	4/03/2003		10.40	1.00	ug/L
Trichloroethene	MW-7	10/07/2003		10.70	1.00	ug/L

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

Table 1

Historical Volatile Organic Compound Detections

Constituent	Well	Date	Identifier	Result	Limit	Units
Trichloroethene	MW-7	4/30/2004		11.00	1.00	ug/L
Trichloroethene	MW-7	10/12/2004		7.40	1.00	ug/L
Trichloroethene	MW-7	4/26/2005		3.60	1.00	ug/L
Trichloroethene	MW-7	10/11/2005		2.94	1.00	ug/L
Trichloroethene	MW-7	4/26/2006		5.97	1.00	ug/L
Trichloroethene	MW-7	10/05/2006		7.26	1.00	ug/L
Trichloroethene	MW-7	4/23/2007		11.00	1.00	ug/L
Trichloroethene	MW-7	10/09/2007		13.40	1.00	ug/L
Trichloroethene	MW-7	4/07/2008		11.20	1.00	ug/L
Trichloroethene	MW-7	10/14/2008		12.80	1.00	ug/L
Trichloroethene	MW-7	4/07/2009		11.40	1.00	ug/L
Trichloroethene	MW-7	10/05/2009		37.50	1.00	ug/L
Trichloroethene	MW-7	4/01/2010		27.20	1.00	ug/L
Trichloroethene	MW-7	10/01/2010		16.90	1.00	ug/L
Trichloroethene	MW-7	4/07/2011		28.90	1.00	ug/L
Trichloroethene	MW-7	10/27/2011		15.40	1.00	ug/L
Trichloroethene	MW-7	4/23/2012		27.40	1.00	ug/L
Trichloroethene	MW-7	10/23/2012		24.00	1.00	ug/L
Trichloroethene	MW-7	4/16/2013		12.70	1.00	ug/L
Trichloroethene	MW-7	10/28/2013		9.17	1.00	ug/L
Trichloroethene	MW-7	4/24/2014		9.48	1.00	ug/L
Trichloroethene	MW-7	10/06/2014		6.83	1.00	ug/L
Trichloroethene	MW-7	4/21/2015		16.40	1.00	ug/L
Trichloroethene	MW-7	10/05/2015		7.02	1.00	ug/L
Trichloroethene	MW-7	4/26/2016		11.70	1.00	ug/L
Trichloroethene	MW-7	10/05/2016		3.16	1.00	ug/L
Trichloroethene	MW-7	4/04/2017		6.44	1.00	ug/L
Trichloroethene	MW-7	10/10/2017		9.98	1.00	ug/L
Trichloroethene	MW-7	4/11/2018		11.10	1.00	ug/L
Trichloroethene	MW-7	10/30/2018		10.30	1.00	ug/L
Trichloroethene	MW-7	4/01/2019		5.36	1.00	ug/L
Trichloroethene	MW-7	10/08/2019		6.71	1.00	ug/L
Trichloroethene	MW-7	4/20/2020		20.40	1.00	ug/L
Trichloroethene	MW-7	10/20/2020		17.30	1.00	ug/L
Trichloroethene	MW-7	4/26/2021		10.00	1.00	ug/L
Trichloroethene	MW-7	8/16/2021		12.30	1.00	ug/L
Trichloroethene	MW-7	6/01/2022		7.03	1.00	ug/L
Trichloroethene	MW-7	10/03/2022		6.27	1.00	ug/L
Trichloroethene	MW-7	5/03/2023		7.50	1.00	ug/L
Trichloroethene	MW-7	10/11/2023		9.37	1.00	ug/L
Vinyl Chloride	MW-7	10/28/2013		1.45	1.00	ug/L
Vinyl Chloride	MW-7	10/06/2014		1.56	1.00	ug/L
Vinyl Chloride	MW-7	4/21/2015		1.26	1.00	ug/L
Vinyl Chloride	MW-7	10/05/2015		1.24	1.00	ug/L
Vinyl Chloride	MW-7	4/26/2016		1.58	1.00	ug/L
Vinyl Chloride	MW-7	4/04/2017		1.15	1.00	ug/L
Vinyl Chloride	MW-7	10/10/2017		1.81	1.00	ug/L
Vinyl Chloride	MW-7	4/11/2018		1.87	1.00	ug/L
Vinyl Chloride	MW-7	10/30/2018		1.98	1.00	ug/L
Vinyl Chloride	MW-7	10/08/2019		1.45	1.00	ug/L
Vinyl Chloride	MW-7	4/20/2020		3.15	1.00	ug/L
Vinyl Chloride	MW-7	10/20/2020		3.48	1.00	ug/L
Vinyl Chloride	MW-7	4/26/2021		1.02	1.00	ug/L
Vinyl Chloride	MW-7	8/16/2021		2.84	1.00	ug/L
Vinyl Chloride	MW-7	6/01/2022		1.47	1.00	ug/L
Vinyl Chloride	MW-7	10/03/2022		1.38	1.00	ug/L
Vinyl Chloride	MW-7	5/03/2023		3.11	1.00	ug/L
Vinyl Chloride	MW-7	10/11/2023		4.28	1.00	ug/L
1,1-Dichloroethene	MW-8	10/10/1996		14.2	1.0	ug/L
1,2-Dichloroethane	MW-8	10/10/1996		3.00	1.00	ug/L
1,2-Dichloroethane	MW-8	1/21/1997		2.80	1.00	ug/L
1,2-Dichloroethane	MW-8	7/15/1997		2.80	1.00	ug/L
1,2-Dichloroethane	MW-8	10/04/1997		2.80	1.00	ug/L
1,2-Dichloroethane	MW-8	4/22/1998		3.30	1.00	ug/L
1,2-Dichloroethane	MW-8	10/19/1998		2.60	1.00	ug/L
1,2-Dichloroethane	MW-8	4/30/1999		3.40	1.00	ug/L
1,2-Dichloroethane	MW-8	9/01/1999		2.30	1.00	ug/L
1,2-Dichloroethane	MW-8	4/12/2000		3.00	1.00	ug/L
1,2-Dichloroethane	MW-8	10/17/2000		2.10	1.00	ug/L
1,2-Dichloroethane	MW-8	4/25/2001		2.70	1.00	ug/L
1,2-Dichloroethane	MW-8	10/23/2001		2.30	1.00	ug/L
1,2-Dichloroethane	MW-8	4/28/2002		1.90	1.00	ug/L
1,2-Dichloroethane	MW-8	10/06/2002		1.61	1.00	ug/L
1,2-Dichloroethane	MW-8	10/07/2003		1.55	1.00	ug/L
1,2-Dichloroethane	MW-8	4/30/2004		1.39	1.00	ug/L
1,2-Dichloroethane	MW-8	10/12/2004		1.21	1.00	ug/L

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

Table 1

Historical Volatile Organic Compound Detections

Constituent	Well	Date	Identifier	Result	Limit	Units
1,2-Dichloroethane	MW-8	4/26/2005		1.30	1.00	ug/L
1,2-Dichloroethane	MW-8	10/11/2005		1.97	1.00	ug/L
1,2-Dichloroethane	MW-8	4/26/2006		1.93	1.00	ug/L
1,2-Dichloroethane	MW-8	10/05/2006		1.83	1.00	ug/L
1,2-Dichloroethane	MW-8	4/23/2007		1.67	1.00	ug/L
1,2-Dichloroethane	MW-8	10/09/2007		1.86	1.00	ug/L
1,2-Dichloroethane	MW-8	4/07/2008		1.48	1.00	ug/L
1,2-Dichloroethane	MW-8	10/14/2008		1.35	1.00	ug/L
1,2-Dichloroethane	MW-8	4/07/2009		1.24	1.00	ug/L
1,2-Dichloroethane	MW-8	10/05/2009		1.34	1.00	ug/L
1,2-Dichloroethane	MW-8	4/01/2010		1.05	1.00	ug/L
1,2-Dichloropropane	MW-8	10/27/2011		1.46	1.00	ug/L
1,2-Dichloropropane	MW-8	4/16/2013		1.62	1.00	ug/L
1,2-Dichloropropane	MW-8	10/28/2013		1.44	1.00	ug/L
1,2-Dichloropropane	MW-8	4/24/2014		1.35	1.00	ug/L
1,2-Dichloropropane	MW-8	10/06/2014		1.17	1.00	ug/L
1,2-Dichloropropane	MW-8	4/21/2015		1.27	1.00	ug/L
1,2-Dichloropropane	MW-8	10/05/2015		1.30	1.00	ug/L
1,2-Dichloropropane	MW-8	4/04/2017		1.32	1.00	ug/L
1,2-Dichloropropane	MW-8	10/10/2017		1.65	1.00	ug/L
1,2-Dichloropropane	MW-8	4/11/2018		1.43	1.00	ug/L
1,2-Dichloropropane	MW-8	10/30/2018		1.27	1.00	ug/L
1,2-Dichloropropane	MW-8	4/01/2019		1.21	1.00	ug/L
1,2-Dichloropropane	MW-8	10/08/2019		1.57	1.00	ug/L
1,2-Dichloropropane	MW-8	5/28/2020		1.43	1.00	ug/L
1,2-Dichloropropane	MW-8	10/20/2020		1.29	1.00	ug/L
1,2-Dichloropropane	MW-8	4/26/2021		1.26	1.00	ug/L
1,2-Dichloropropane	MW-8	8/16/2021		1.52	1.00	ug/L
1,2-Dichloropropane	MW-8	6/01/2022		1.21	1.00	ug/L
1,2-Dichloropropane	MW-8	10/03/2022		1.01	1.00	ug/L
1,2-Dichloropropane	MW-8	5/03/2023		1.16	1.00	ug/L
Benzene	MW-8	10/10/1996		2.800	.500	ug/L
Benzene	MW-8	1/21/1997		2.200	.500	ug/L
Benzene	MW-8	7/15/1997		1.200	1.000	ug/L
Benzene	MW-8	10/04/1997		1.530	1.000	ug/L
Benzene	MW-8	4/22/1998		1.100	1.000	ug/L
Benzene	MW-8	10/19/1998		1.300	1.000	ug/L
Benzene	MW-8	4/30/1999		1.300	1.000	ug/L
Benzene	MW-8	9/01/1999		1.000	1.000	ug/L
Benzene	MW-8	4/12/2000		.720	.500	ug/L
Benzene	MW-8	10/17/2000		.950	.500	ug/L
Benzene	MW-8	4/03/2003		.800	.500	ug/L
Benzene	MW-8	10/11/2005		.550	.500	ug/L
Benzene	MW-8	4/26/2006		1.080	1.000	ug/L
Benzene	MW-8	10/05/2006		.940	.500	ug/L
Benzene	MW-8	10/09/2007		1.240	1.000	ug/L
Benzene	MW-8	4/07/2008		1.610	1.000	ug/L
Benzene	MW-8	10/14/2008		1.460	1.000	ug/L
Benzene	MW-8	4/07/2009		.560	.500	ug/L
Benzene	MW-8	10/05/2009		.860	.500	ug/L
Benzene	MW-8	4/07/2011		1.090	1.000	ug/L
Benzene	MW-8	10/27/2011		1.040	1.000	ug/L
Benzene	MW-8	4/23/2012		.840	.500	ug/L
Benzene	MW-8	10/23/2012		.710	.500	ug/L
Benzene	MW-8	10/05/2016		.801	.500	ug/L
Benzene	MW-8	4/04/2017		.794	.500	ug/L
Benzene	MW-8	10/10/2017		.701	.500	ug/L
Benzene	MW-8	4/01/2019		.632	.500	ug/L
Benzene	MW-8	10/08/2019		.858	.500	ug/L
cis-1,2-Dichloroethene	MW-8	10/27/2011		104.00	1.00	ug/L
cis-1,2-Dichloroethene	MW-8	4/16/2013		85.70	1.00	ug/L
cis-1,2-Dichloroethene	MW-8	10/28/2013		53.80	1.00	ug/L
cis-1,2-Dichloroethene	MW-8	4/24/2014		69.30	1.00	ug/L
cis-1,2-Dichloroethene	MW-8	10/06/2014		54.30	1.00	ug/L
cis-1,2-Dichloroethene	MW-8	4/21/2015		72.00	1.00	ug/L
cis-1,2-Dichloroethene	MW-8	10/05/2015		84.50	1.00	ug/L
cis-1,2-Dichloroethene	MW-8	4/26/2016		60.40	1.00	ug/L
cis-1,2-Dichloroethene	MW-8	10/05/2016		84.70	1.00	ug/L
cis-1,2-Dichloroethene	MW-8	4/04/2017		91.90	1.00	ug/L
cis-1,2-Dichloroethene	MW-8	10/10/2017		100.00	1.00	ug/L
cis-1,2-Dichloroethene	MW-8	4/11/2018		80.80	1.00	ug/L
cis-1,2-Dichloroethene	MW-8	10/30/2018		82.60	1.00	ug/L
cis-1,2-Dichloroethene	MW-8	4/01/2019		75.70	1.00	ug/L
cis-1,2-Dichloroethene	MW-8	10/08/2019		85.80	1.00	ug/L
cis-1,2-Dichloroethene	MW-8	4/20/2020		1.21	1.00	ug/L
cis-1,2-Dichloroethene	MW-8	5/28/2020		57.10	1.00	ug/L

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

Table 1

Historical Volatile Organic Compound Detections

Constituent	Well	Date	Identifier	Result	Limit	Units
cis-1,2-Dichloroethene	MW-8	10/20/2020		76.40	1.00	ug/L
cis-1,2-Dichloroethene	MW-8	4/26/2021		61.20	1.00	ug/L
cis-1,2-Dichloroethene	MW-8	8/16/2021		85.90	1.00	ug/L
cis-1,2-Dichloroethene	MW-8	6/01/2022		59.40	1.00	ug/L
cis-1,2-Dichloroethene	MW-8	10/03/2022		50.20	1.00	ug/L
cis-1,2-Dichloroethene	MW-8	5/03/2023		53.80	1.00	ug/L
cis-1,2-Dichloroethene	MW-8	10/11/2023		45.70	1.00	ug/L
Trichloroethene	MW-8	10/10/1996		21.40	1.00	ug/L
Trichloroethene	MW-8	1/21/1997		20.80	1.00	ug/L
Trichloroethene	MW-8	4/17/1997		18.60	1.00	ug/L
Trichloroethene	MW-8	7/15/1997		17.10	1.00	ug/L
Trichloroethene	MW-8	10/04/1997		15.60	1.00	ug/L
Trichloroethene	MW-8	4/22/1998		16.40	1.00	ug/L
Trichloroethene	MW-8	10/19/1998		16.10	1.00	ug/L
Trichloroethene	MW-8	4/30/1999		14.10	1.00	ug/L
Trichloroethene	MW-8	9/01/1999		11.80	1.00	ug/L
Trichloroethene	MW-8	4/12/2000		9.80	1.00	ug/L
Trichloroethene	MW-8	10/17/2000		9.80	1.00	ug/L
Trichloroethene	MW-8	4/25/2001		7.80	1.00	ug/L
Trichloroethene	MW-8	10/23/2001		7.30	1.00	ug/L
Trichloroethene	MW-8	4/28/2002		6.40	1.00	ug/L
Trichloroethene	MW-8	10/06/2002		7.00	1.00	ug/L
Trichloroethene	MW-8	4/03/2003		9.50	1.00	ug/L
Trichloroethene	MW-8	10/07/2003		5.02	1.00	ug/L
Trichloroethene	MW-8	4/30/2004		5.97	1.00	ug/L
Trichloroethene	MW-8	10/12/2004		4.06	1.00	ug/L
Trichloroethene	MW-8	4/26/2005		3.61	1.00	ug/L
Trichloroethene	MW-8	10/11/2005		3.29	1.00	ug/L
Trichloroethene	MW-8	4/26/2006		1.46	1.00	ug/L
Trichloroethene	MW-8	10/05/2006		2.61	1.00	ug/L
Trichloroethene	MW-8	4/23/2007		1.73	1.00	ug/L
Trichloroethene	MW-8	10/09/2007		2.47	1.00	ug/L
Trichloroethene	MW-8	4/07/2008		1.91	1.00	ug/L
Trichloroethene	MW-8	10/14/2008		2.13	1.00	ug/L
Trichloroethene	MW-8	4/07/2009		1.91	1.00	ug/L
Trichloroethene	MW-8	10/05/2009		2.16	1.00	ug/L
Trichloroethene	MW-8	4/01/2010		1.08	1.00	ug/L
Trichloroethene	MW-8	10/01/2010		1.12	1.00	ug/L
Trichloroethene	MW-8	4/07/2011		1.17	1.00	ug/L
Trichloroethene	MW-8	10/27/2011		1.07	1.00	ug/L
Trichloroethene	MW-8	10/23/2012		1.59	1.00	ug/L
Trichloroethene	MW-8	4/16/2013		1.87	1.00	ug/L
Trichloroethene	MW-8	5/03/2023		1.13	1.00	ug/L
Vinyl Chloride	MW-8	10/27/2011		3.73	1.00	ug/L
Vinyl Chloride	MW-8	4/16/2013		1.90	1.00	ug/L
Vinyl Chloride	MW-8	4/26/2016		1.06	1.00	ug/L
Vinyl Chloride	MW-8	10/05/2016		2.86	1.00	ug/L
Vinyl Chloride	MW-8	4/04/2017		3.73	1.00	ug/L
Vinyl Chloride	MW-8	10/10/2017		3.83	1.00	ug/L
Vinyl Chloride	MW-8	4/11/2018		2.74	1.00	ug/L
Vinyl Chloride	MW-8	10/30/2018		2.18	1.00	ug/L
Vinyl Chloride	MW-8	4/01/2019		5.33	1.00	ug/L
Vinyl Chloride	MW-8	10/08/2019		7.13	1.00	ug/L
Vinyl Chloride	MW-8	5/28/2020		1.73	1.00	ug/L
Vinyl Chloride	MW-8	10/20/2020		3.25	1.00	ug/L
Vinyl Chloride	MW-8	4/26/2021		2.16	1.00	ug/L
Vinyl Chloride	MW-8	8/16/2021		2.40	1.00	ug/L
Vinyl Chloride	MW-8	6/01/2022		2.72	1.00	ug/L
Vinyl Chloride	MW-8	10/03/2022		1.62	1.00	ug/L
Vinyl Chloride	MW-8	5/03/2023		2.16	1.00	ug/L
Vinyl Chloride	MW-8	10/11/2023		1.03	1.00	ug/L
1,2-Dichloroethane	MW-9	10/10/1996		.55	.40	ug/L
1,2-Dichloroethane	MW-9	10/04/1997		.54	.40	ug/L
1,2-Dichloroethane	MW-9	10/19/1998		.40	.40	ug/L
1,2-Dichloroethane	MW-9	4/30/1999		.47	.40	ug/L
cis-1,2-Dichloroethene	MW-9	10/27/2011		2.70	1.00	ug/L
cis-1,2-Dichloroethene	MW-9	4/26/2016		1.69	1.00	ug/L
cis-1,2-Dichloroethene	MW-9	4/04/2017		1.09	1.00	ug/L
cis-1,2-Dichloroethene	MW-9	10/30/2018		1.99	1.00	ug/L

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

Attachment D

Assessment Statistics on Verified VOCs
First Semi-Annual Monitoring Event in 2023

Table 1

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

Constituent	Units	Well	N	Mean	SD	Factor	95% LCL	95% UCL	Standard	Trend	
1,2-Dichloropropane	ug/L	MW-12	4	0.500	0.000	1.176	0.500	0.500	5.000		
Benzene	ug/L	MW-12	4	1.366	0.482	1.176	0.799	1.933	5.000		
cis-1,2-Dichloroethene	ug/L	MW-12	4	40.700	16.102	1.176	21.760	59.640	70.000		
Tetrachloroethene	ug/L	MW-12	4	0.500	0.000	1.176	0.500	0.500	5.000		
Trichloroethene	ug/L	MW-12	4	0.500	0.000	1.176	0.500	0.500	5.000	dec	
Vinyl Chloride	ug/L	MW-12	4	4.245	2.286	1.176	1.556	6.934	2.000	inc	
1,2-Dichloropropane	ug/L	MW-14	4	0.895	0.503	1.176	0.303	1.487	5.000		
Benzene	ug/L	MW-14	4	0.250	0.000	1.176	0.250	0.250	5.000		
cis-1,2-Dichloroethene	ug/L	MW-14	4	50.075	19.027	1.176	27.693	72.457	70.000		
Tetrachloroethene	ug/L	MW-14	4	0.500	0.000	1.176	0.500	0.500	5.000		
Trichloroethene	ug/L	MW-14	4	0.500	0.000	1.176	0.500	0.500	5.000		
Vinyl Chloride	ug/L	MW-14	4	0.500	0.000	1.176	0.500	0.500	2.000		
1,2-Dichloropropane	ug/L	MW-7	4	12.100	1.219	1.176	10.666	13.534	5.000		**
Benzene	ug/L	MW-7	4	0.500	0.290	1.176	0.159	0.840	5.000		
cis-1,2-Dichloroethene	ug/L	MW-7	4	182.250	40.203	1.176	134.960	229.540	70.000		**
Tetrachloroethene	ug/L	MW-7	4	3.387	1.279	1.176	1.883	4.892	5.000	dec	
Trichloroethene	ug/L	MW-7	4	8.275	2.731	1.176	5.063	11.487	5.000		**
Vinyl Chloride	ug/L	MW-7	4	2.200	0.902	1.176	1.139	3.261	2.000		
1,2-Dichloropropane	ug/L	MW-8	4	1.225	0.214	1.176	0.973	1.477	5.000		
Benzene	ug/L	MW-8	4	0.250	0.000	1.176	0.250	0.250	5.000		
cis-1,2-Dichloroethene	ug/L	MW-8	4	62.325	16.166	1.176	43.309	81.341	70.000		
Tetrachloroethene	ug/L	MW-8	4	0.500	0.000	1.176	0.500	0.500	5.000		
Trichloroethene	ug/L	MW-8	4	0.658	0.315	1.176	0.287	1.028	5.000	dec	
Vinyl Chloride	ug/L	MW-8	4	2.225	0.464	1.176	1.679	2.771	2.000		

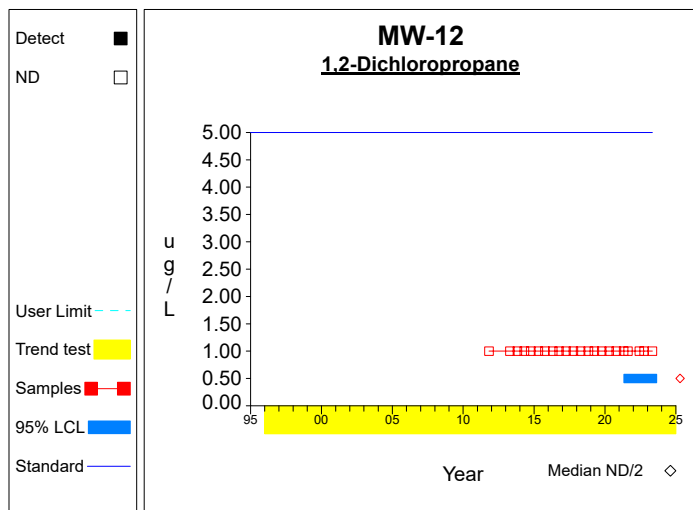
* - Insufficient Data

** - Significant Exceedance

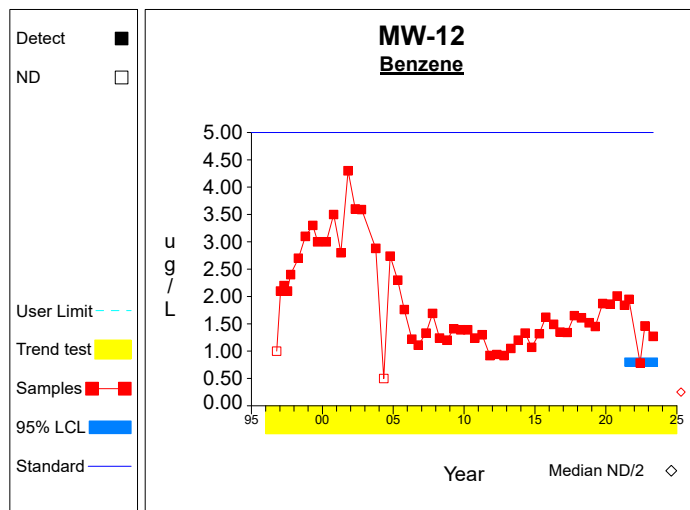
LCL = Lower Confidence Limit

UCL = Upper Confidence Limit

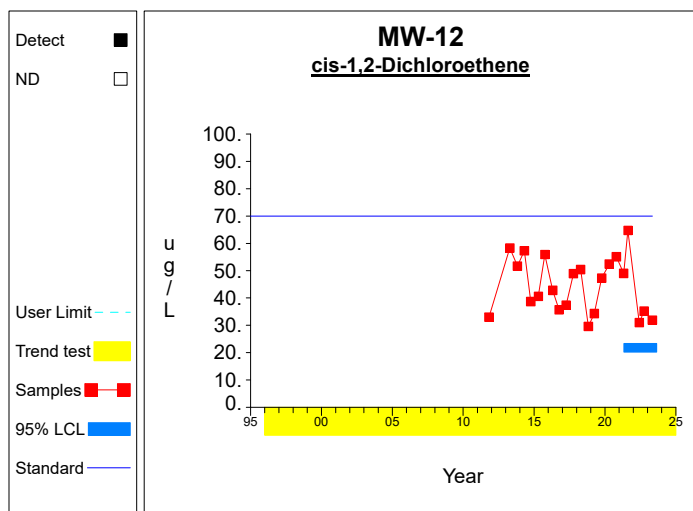
Confidence Limits (Assessment)



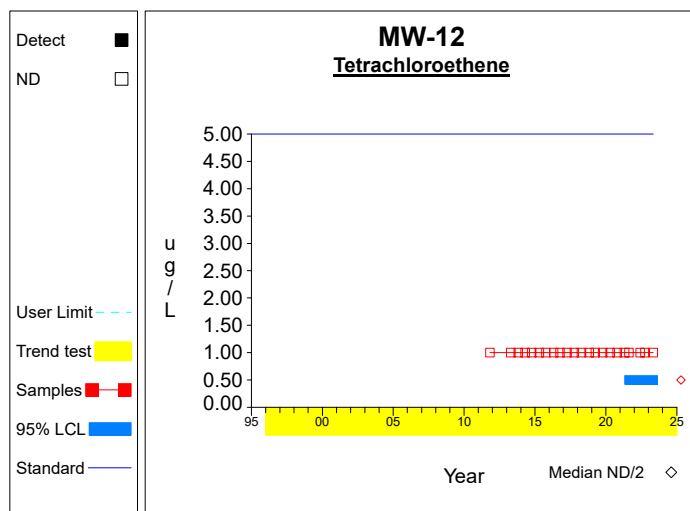
Graph 1



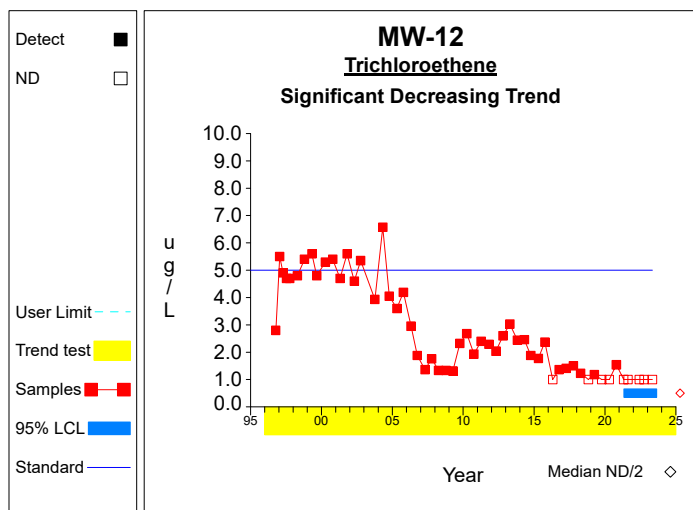
Graph 2



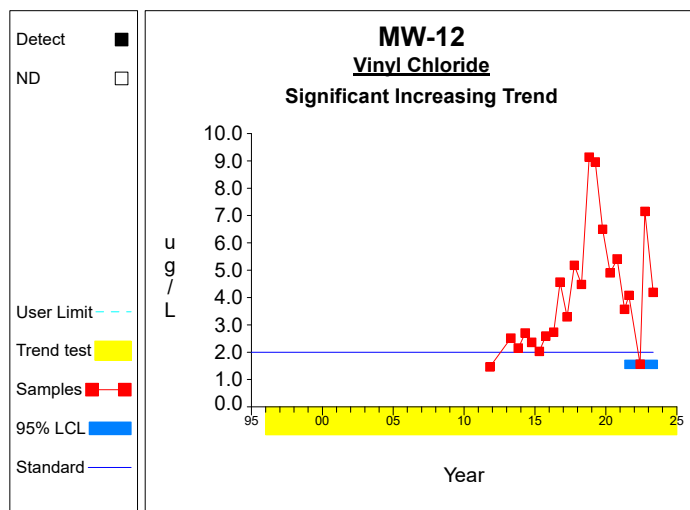
Graph 3



Graph 4

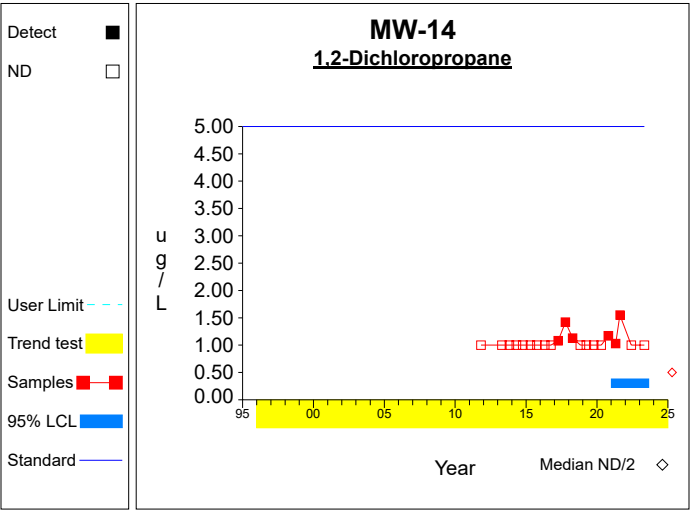


Graph 5

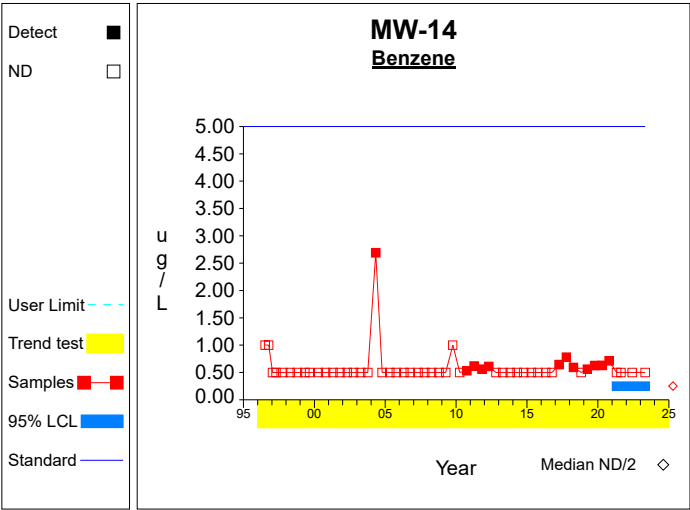


Graph 6

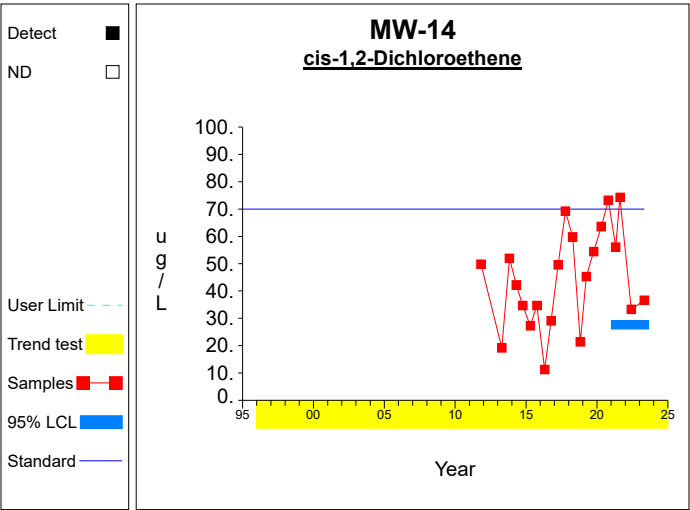
Confidence Limits (Assessment)



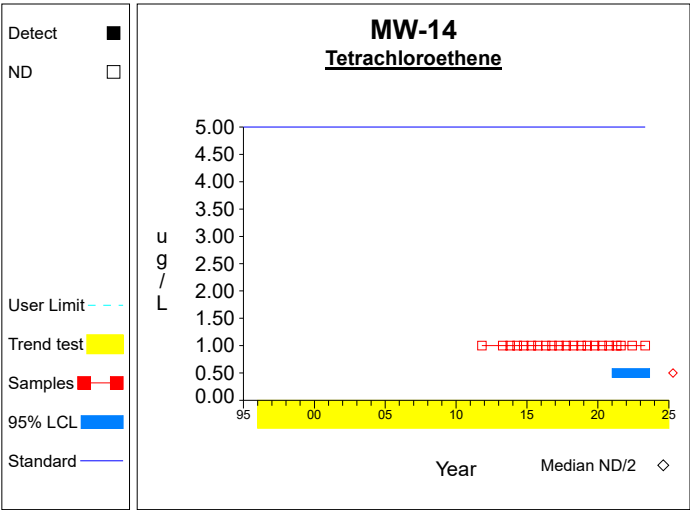
Graph 7



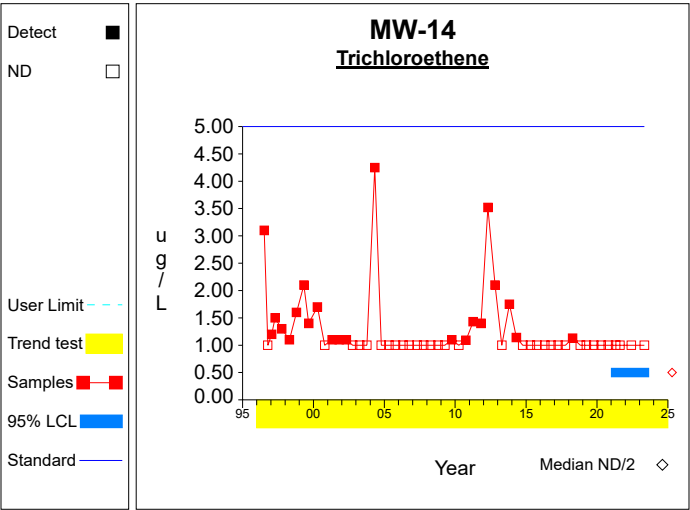
Graph 8



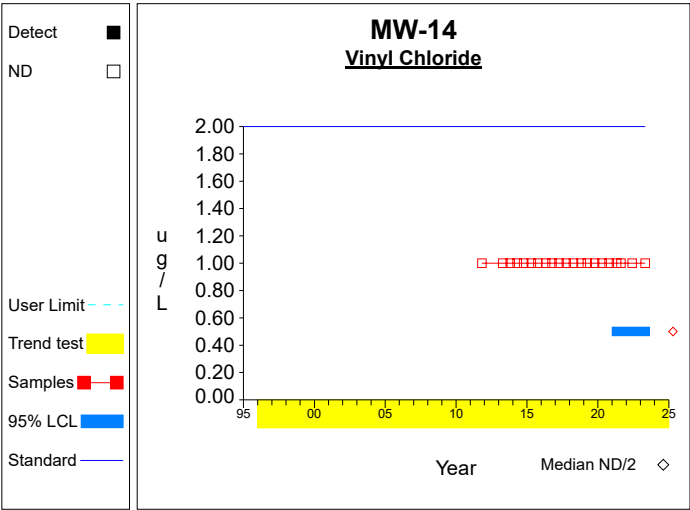
Graph 9



Graph 10

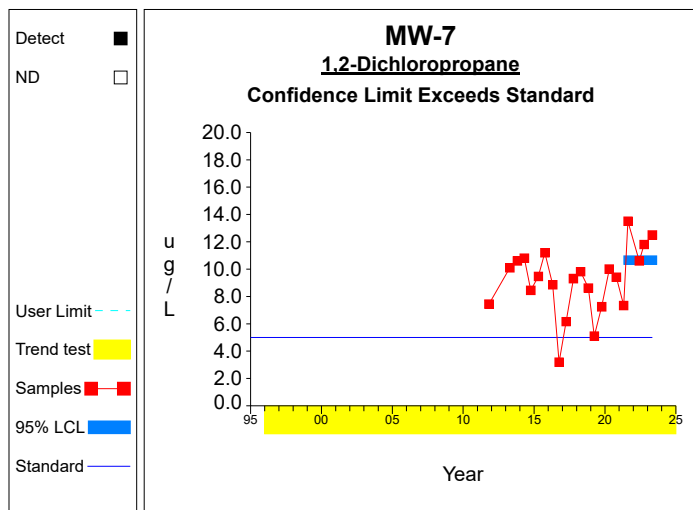


Graph 11

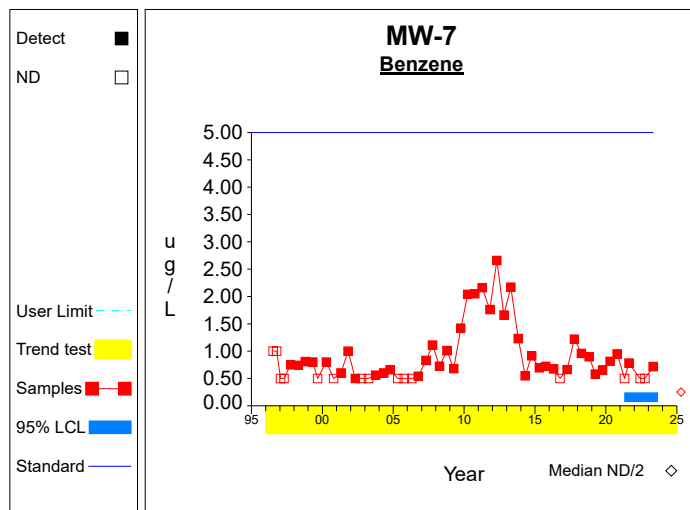


Graph 12

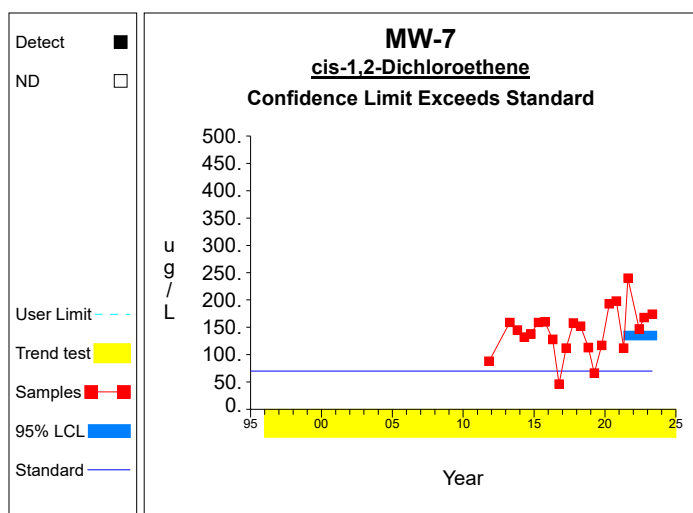
Confidence Limits (Assessment)



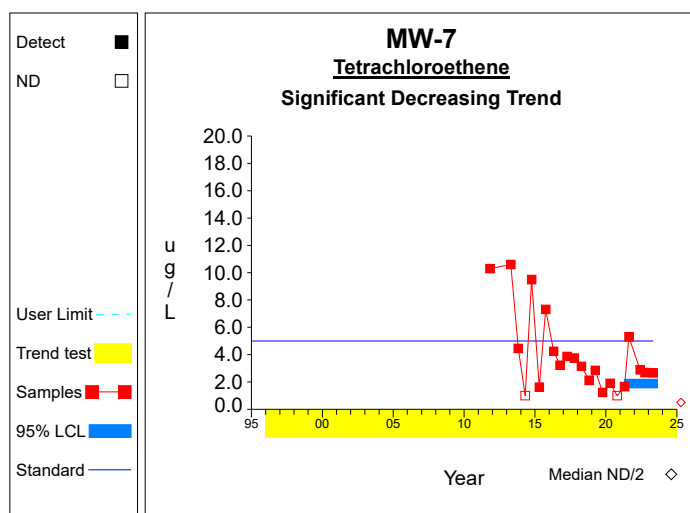
Graph 13



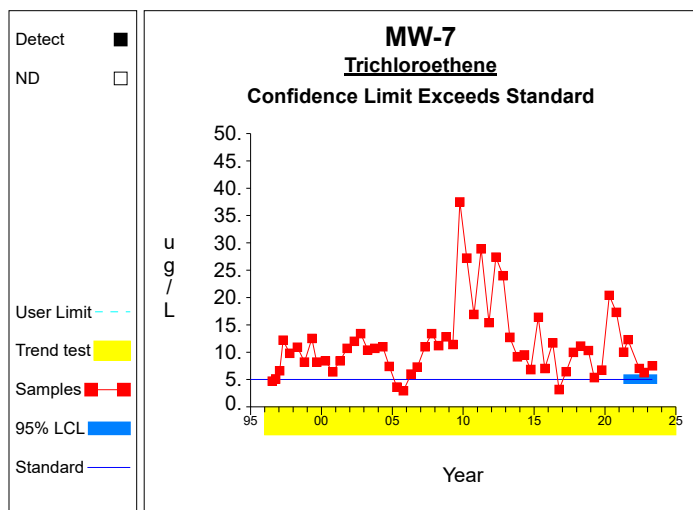
Graph 14



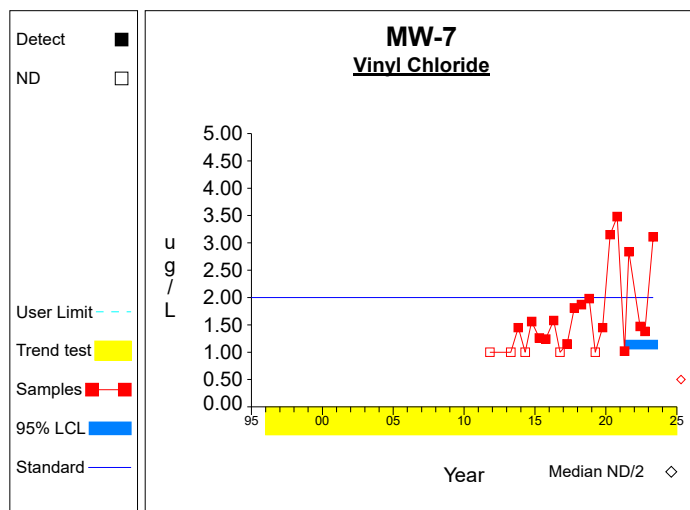
Graph 15



Graph 16

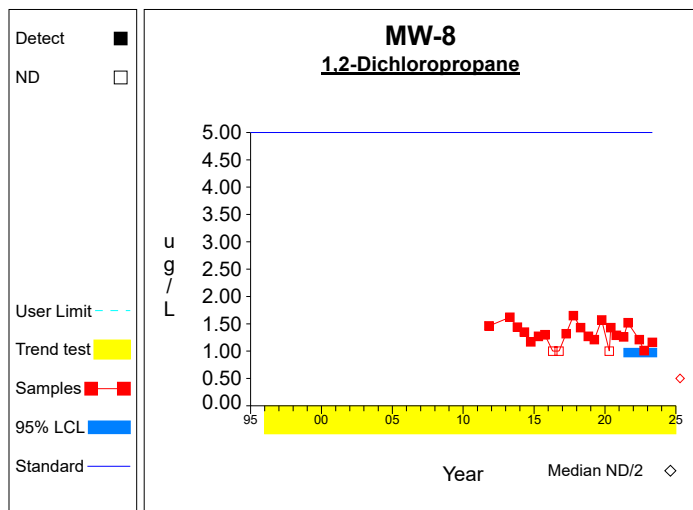


Graph 17

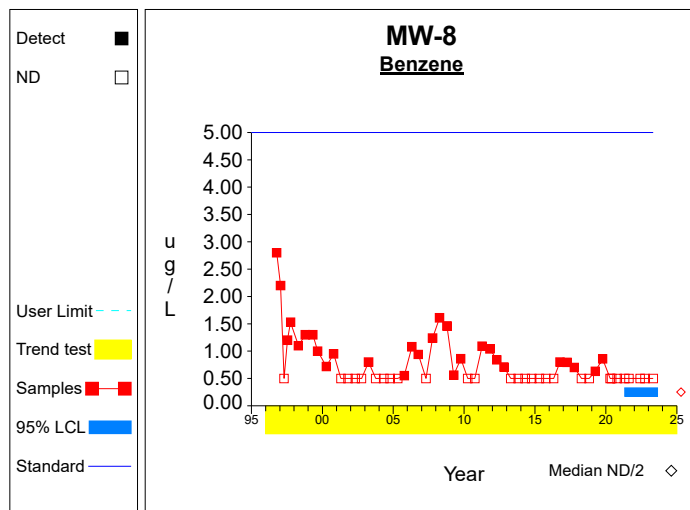


Graph 18

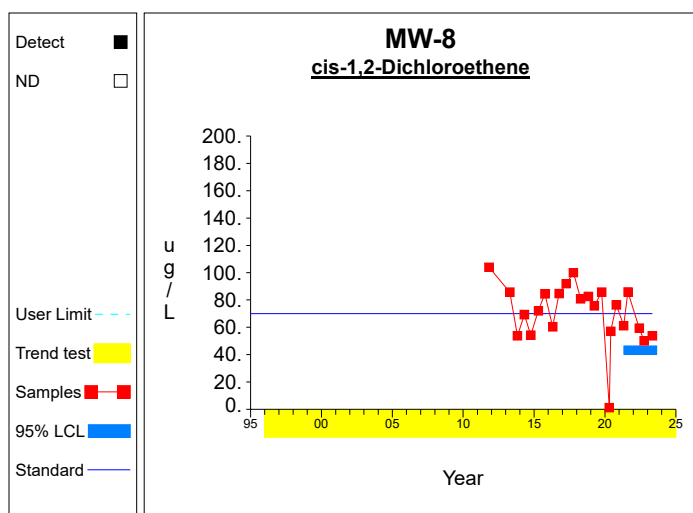
Confidence Limits (Assessment)



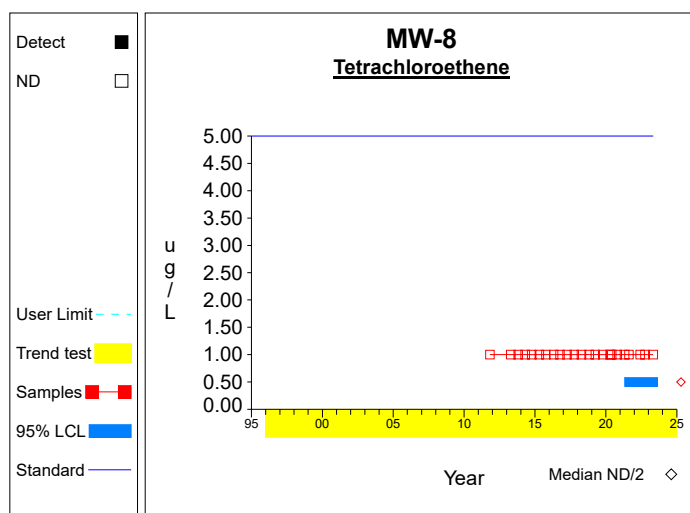
Graph 19



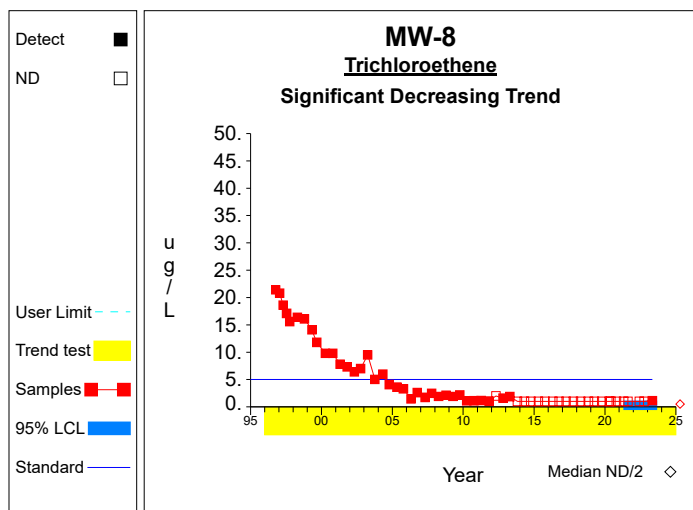
Graph 20



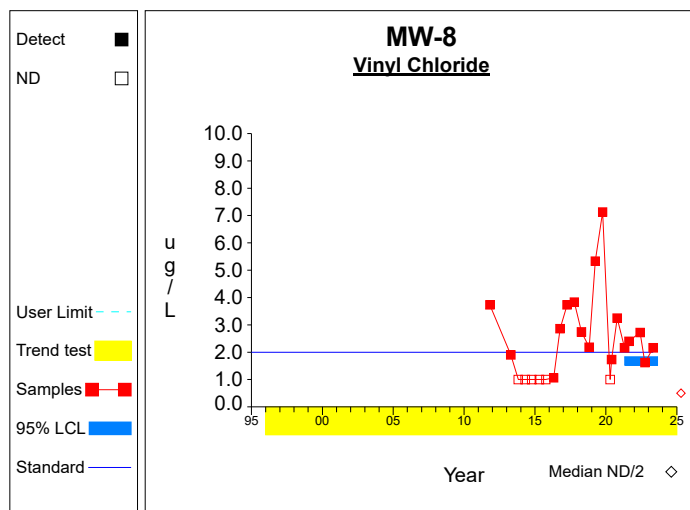
Graph 21



Graph 22



Graph 23



Graph 24

Attachment E

Summary Tables and Graphs for the Interwell Comparisons
Second Semi-Annual Monitoring Event in 2023

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Ammonia as N	mg/L	MW-17	11/10/1997	ND	0.2000		
Ammonia as N	mg/L	MW-17	01/08/1998	ND	0.2000		
Ammonia as N	mg/L	MW-17	04/22/1998	ND	0.2000		
Ammonia as N	mg/L	MW-17	07/01/1998	ND	0.2000		
Ammonia as N	mg/L	MW-17	10/19/1998	ND	0.2000		
Ammonia as N	mg/L	MW-17	04/30/1999	ND	0.2000		
Ammonia as N	mg/L	MW-17	09/01/1999	ND	0.2000		
Ammonia as N	mg/L	MW-17	04/12/2000	ND	0.2000		
Ammonia as N	mg/L	MW-17	10/17/2000	ND	0.2000		
Ammonia as N	mg/L	MW-17	04/25/2001	ND	0.2000		
Ammonia as N	mg/L	MW-17	10/23/2001	ND	0.2000		
Ammonia as N	mg/L	MW-17	04/28/2002	ND	0.2000		
Ammonia as N	mg/L	MW-17	10/06/2002	ND	0.2000		
Ammonia as N	mg/L	MW-17	04/03/2003	ND	0.2000		
Ammonia as N	mg/L	MW-17	10/07/2003	ND	0.2000		
Ammonia as N	mg/L	MW-17	04/30/2004	ND	0.2000		
Ammonia as N	mg/L	MW-17	10/12/2004	ND	0.2000		
Ammonia as N	mg/L	MW-17	04/26/2005	ND	0.2000		
Ammonia as N	mg/L	MW-17	10/11/2005	ND	0.2000		
Ammonia as N	mg/L	MW-17	04/26/2006	ND	0.2000		
Ammonia as N	mg/L	MW-17	10/05/2006	ND	0.2000		
Ammonia as N	mg/L	MW-17	04/23/2007	ND	0.2000		
Ammonia as N	mg/L	MW-17	10/09/2007	ND	0.2000		
Ammonia as N	mg/L	MW-17	04/07/2008	ND	0.2000		
Ammonia as N	mg/L	MW-17	10/14/2008	ND	0.2000		
Ammonia as N	mg/L	MW-17	04/07/2009	ND	0.2000		
Ammonia as N	mg/L	MW-17	10/05/2009	ND	0.2000		
Ammonia as N	mg/L	MW-17	04/01/2010	ND	0.2000		
Ammonia as N	mg/L	MW-17	10/01/2010	ND	0.2000		
Ammonia as N	mg/L	MW-17	04/07/2011	ND	0.2000		
Ammonia as N	mg/L	MW-17	10/27/2011	ND	0.2000		
Ammonia as N	mg/L	MW-17	04/23/2012	ND	0.2000		
Ammonia as N	mg/L	MW-17	10/23/2012	ND	0.2000		
Ammonia as N	mg/L	MW-17	04/16/2013	ND	0.2000		
Ammonia as N	mg/L	MW-17	10/28/2013	ND	0.2000		
Ammonia as N	mg/L	MW-17	04/24/2014	ND	0.2000		
Ammonia as N	mg/L	MW-17	10/06/2014	ND	0.2000		
Ammonia as N	mg/L	MW-17	04/21/2015	ND	0.2000		
Ammonia as N	mg/L	MW-17	10/05/2015	ND	0.2000		
Ammonia as N	mg/L	MW-17	04/26/2016	ND	0.2000		
Ammonia as N	mg/L	MW-17	10/05/2016	ND	0.2000		
Ammonia as N	mg/L	MW-17	04/04/2017	ND	0.2000		
Ammonia as N	mg/L	MW-17	10/10/2017	ND	0.2000		
Ammonia as N	mg/L	MW-17	04/11/2018	ND	0.2000		
Ammonia as N	mg/L	MW-17	10/30/2018	ND	0.2000		
Ammonia as N	mg/L	MW-17	04/01/2019	ND	0.2000		
Ammonia as N	mg/L	MW-17	10/08/2019	ND	0.2000		
Ammonia as N	mg/L	MW-17	04/20/2020	ND	0.2000		
Ammonia as N	mg/L	MW-17	10/20/2020	ND	0.2000		
Ammonia as N	mg/L	MW-17	04/26/2021	ND	0.2000		
Ammonia as N	mg/L	MW-17	08/16/2021	ND	0.2000		
Ammonia as N	mg/L	MW-17	06/01/2022	ND	0.2000		
Ammonia as N	mg/L	MW-17	10/03/2022	ND	0.2000		
Ammonia as N	mg/L	MW-17	05/03/2023	ND	0.2000		
Ammonia as N	mg/L	MW-17	10/11/2023	ND	0.2000		
Chemical Oxygen Demand	mg/L	MW-17	11/10/1997	ND	5.0000		
Chemical Oxygen Demand	mg/L	MW-17	01/08/1998	ND	5.0000		
Chemical Oxygen Demand	mg/L	MW-17	04/22/1998	ND	5.0000		
Chemical Oxygen Demand	mg/L	MW-17	07/01/1998	ND	5.0000		
Chemical Oxygen Demand	mg/L	MW-17	10/19/1998	ND	5.0000		
Chemical Oxygen Demand	mg/L	MW-17	04/30/1999	ND	5.0000		
Chemical Oxygen Demand	mg/L	MW-17	09/01/1999	ND	5.0000		
Chemical Oxygen Demand	mg/L	MW-17	04/12/2000	ND	5.0000		
Chemical Oxygen Demand	mg/L	MW-17	10/17/2000	ND	5.0000		
Chemical Oxygen Demand	mg/L	MW-17	04/25/2001	ND	5.0000		
Chemical Oxygen Demand	mg/L	MW-17	10/23/2001	ND	5.0000		
Chemical Oxygen Demand	mg/L	MW-17	04/28/2002	ND	5.0000		
Chemical Oxygen Demand	mg/L	MW-17	10/06/2002		11.0000		
Chemical Oxygen Demand	mg/L	MW-17	04/03/2003		7.5000		
Chemical Oxygen Demand	mg/L	MW-17	10/07/2003	ND	5.0000		
Chemical Oxygen Demand	mg/L	MW-17	04/30/2004	ND	5.0000		
Chemical Oxygen Demand	mg/L	MW-17	10/12/2004	ND	5.0000		
Chemical Oxygen Demand	mg/L	MW-17	04/26/2005	ND	5.0000		
Chemical Oxygen Demand	mg/L	MW-17	10/11/2005	ND	5.0000		

* - Outlier for that well and constituent.

** - ND value replaced with median RL.

*** - ND value replaced with manual RL.

ND = Not detected, Result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Chemical Oxygen Demand	mg/L	MW-17	04/26/2006	ND	5.0000		
Chemical Oxygen Demand	mg/L	MW-17	10/05/2006		8.4000		
Chemical Oxygen Demand	mg/L	MW-17	04/23/2007		10.6000		
Chemical Oxygen Demand	mg/L	MW-17	10/09/2007	ND	5.0000		
Chemical Oxygen Demand	mg/L	MW-17	04/07/2008	ND	5.0000		
Chemical Oxygen Demand	mg/L	MW-17	10/14/2008	ND	5.0000		
Chemical Oxygen Demand	mg/L	MW-17	04/07/2009	ND	5.0000		
Chemical Oxygen Demand	mg/L	MW-17	10/05/2009	ND	5.0000		
Chemical Oxygen Demand	mg/L	MW-17	04/01/2010	ND	5.0000		
Chemical Oxygen Demand	mg/L	MW-17	10/01/2010	ND	5.0000		
Chemical Oxygen Demand	mg/L	MW-17	04/07/2011	ND	5.0000		
Chemical Oxygen Demand	mg/L	MW-17	10/27/2011		14.3000		
Chemical Oxygen Demand	mg/L	MW-17	04/23/2012	ND	5.0000		
Chemical Oxygen Demand	mg/L	MW-17	10/23/2012	ND	5.0000		
Chemical Oxygen Demand	mg/L	MW-17	04/16/2013	ND	5.0000		
Chemical Oxygen Demand	mg/L	MW-17	10/28/2013	ND	5.0000		
Chemical Oxygen Demand	mg/L	MW-17	04/24/2014	ND	5.0000		
Chemical Oxygen Demand	mg/L	MW-17	10/06/2014	ND	5.0000		
Chemical Oxygen Demand	mg/L	MW-17	04/21/2015	ND	5.0000		
Chemical Oxygen Demand	mg/L	MW-17	10/05/2015	ND	5.0000		
Chemical Oxygen Demand	mg/L	MW-17	04/26/2016	ND	5.0000		
Chemical Oxygen Demand	mg/L	MW-17	10/05/2016	ND	5.0000		
Chemical Oxygen Demand	mg/L	MW-17	04/04/2017	ND	5.0000		
Chemical Oxygen Demand	mg/L	MW-17	10/10/2017	ND	25.0000	5.0000	**
Chemical Oxygen Demand	mg/L	MW-17	04/11/2018	ND	5.0000		
Chemical Oxygen Demand	mg/L	MW-17	10/30/2018	ND	5.0000		
Chemical Oxygen Demand	mg/L	MW-17	04/01/2019		5.3600		
Chemical Oxygen Demand	mg/L	MW-17	10/08/2019	ND	5.0000		
Chemical Oxygen Demand	mg/L	MW-17	04/20/2020	ND	5.0000		
Chemical Oxygen Demand	mg/L	MW-17	10/20/2020		5.3000		
Chemical Oxygen Demand	mg/L	MW-17	04/26/2021		7.4000		
Chemical Oxygen Demand	mg/L	MW-17	08/16/2021		5.7300		
Chemical Oxygen Demand	mg/L	MW-17	06/01/2022		21.2000		
Chemical Oxygen Demand	mg/L	MW-17	10/03/2022	ND	5.0000		
Chemical Oxygen Demand	mg/L	MW-17	05/03/2023		10.8000		
Chemical Oxygen Demand	mg/L	MW-17	10/11/2023		7.4500		
Chloride	mg/L	MW-17	11/10/1997	ND	5.0000		
Chloride	mg/L	MW-17	01/08/1998	ND	5.0000		
Chloride	mg/L	MW-17	04/22/1998	ND	5.0000		
Chloride	mg/L	MW-17	07/01/1998		7.3000		
Chloride	mg/L	MW-17	10/19/1998	ND	5.0000		
Chloride	mg/L	MW-17	04/30/1999	ND	5.0000		
Chloride	mg/L	MW-17	09/01/1999	ND	5.0000		
Chloride	mg/L	MW-17	04/12/2000	ND	5.0000		
Chloride	mg/L	MW-17	10/17/2000	ND	5.0000		
Chloride	mg/L	MW-17	04/25/2001	ND	5.0000		
Chloride	mg/L	MW-17	10/23/2001	ND	5.0000		
Chloride	mg/L	MW-17	04/28/2002	ND	5.0000		
Chloride	mg/L	MW-17	10/06/2002	ND	5.0000		
Chloride	mg/L	MW-17	04/03/2003	ND	5.0000		
Chloride	mg/L	MW-17	10/07/2003	ND	5.0000		
Chloride	mg/L	MW-17	04/30/2004	ND	5.0000		
Chloride	mg/L	MW-17	10/12/2004	ND	5.0000		
Chloride	mg/L	MW-17	04/26/2005	ND	5.0000		
Chloride	mg/L	MW-17	10/11/2005	ND	5.0000		
Chloride	mg/L	MW-17	04/26/2006	ND	5.0000		
Chloride	mg/L	MW-17	10/05/2006	ND	5.0000		
Chloride	mg/L	MW-17	04/23/2007	ND	5.0000		
Chloride	mg/L	MW-17	10/09/2007	ND	5.0000		
Chloride	mg/L	MW-17	04/07/2008	ND	5.0000		
Chloride	mg/L	MW-17	10/14/2008	ND	5.0000		
Chloride	mg/L	MW-17	04/07/2009	ND	5.0000		
Chloride	mg/L	MW-17	10/05/2009	ND	5.0000		
Chloride	mg/L	MW-17	04/01/2010	ND	5.0000		
Chloride	mg/L	MW-17	10/01/2010	ND	5.0000		
Chloride	mg/L	MW-17	04/07/2011	ND	5.0000		
Chloride	mg/L	MW-17	10/27/2011	ND	5.0000		
Chloride	mg/L	MW-17	04/23/2012	ND	5.0000		
Chloride	mg/L	MW-17	10/23/2012	ND	5.0000		
Chloride	mg/L	MW-17	04/16/2013	ND	2.0000	5.0000	**
Chloride	mg/L	MW-17	10/28/2013	ND	5.0000		
Chloride	mg/L	MW-17	04/24/2014		1.6500		
Chloride	mg/L	MW-17	10/06/2014		1.6600		
Chloride	mg/L	MW-17	04/21/2015	ND	5.0000		

* - Outlier for that well and constituent.

** - ND value replaced with median RL.

*** - ND value replaced with manual RL.

ND = Not detected, Result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Chloride	mg/L	MW-17	10/05/2015	ND	5.0000		
Chloride	mg/L	MW-17	04/26/2016	ND	5.0000		
Chloride	mg/L	MW-17	10/05/2016	ND	5.0000		
Chloride	mg/L	MW-17	04/04/2017	ND	5.0000		
Chloride	mg/L	MW-17	10/10/2017	ND	5.0000		
Chloride	mg/L	MW-17	04/11/2018	ND	5.0000		
Chloride	mg/L	MW-17	10/30/2018		6.4700		
Chloride	mg/L	MW-17	04/01/2019	ND	5.0000		
Chloride	mg/L	MW-17	10/08/2019	ND	5.0000		
Chloride	mg/L	MW-17	04/20/2020	ND	5.0000		
Chloride	mg/L	MW-17	10/20/2020	ND	5.0000		
Chloride	mg/L	MW-17	04/26/2021	ND	5.0000		
Chloride	mg/L	MW-17	08/16/2021	ND	5.0000		
Chloride	mg/L	MW-17	06/01/2022	ND	5.0000		
Chloride	mg/L	MW-17	10/03/2022	ND	5.0000		
Chloride	mg/L	MW-17	05/03/2023	ND	5.0000		
Chloride	mg/L	MW-17	10/11/2023	ND	5.0000		
Iron, Dissolved	ug/L	MW-17	11/10/1997	ND	100.0000		
Iron, Dissolved	ug/L	MW-17	01/08/1998	ND	100.0000		
Iron, Dissolved	ug/L	MW-17	04/22/1998	ND	100.0000		
Iron, Dissolved	ug/L	MW-17	07/01/1998	ND	100.0000		
Iron, Dissolved	ug/L	MW-17	10/19/1998	ND	100.0000		
Iron, Dissolved	ug/L	MW-17	04/30/1999	ND	100.0000		
Iron, Dissolved	ug/L	MW-17	09/01/1999	ND	100.0000		
Iron, Dissolved	ug/L	MW-17	04/12/2000	ND	100.0000		
Iron, Dissolved	ug/L	MW-17	10/17/2000	ND	100.0000		
Iron, Dissolved	ug/L	MW-17	04/25/2001	ND	100.0000		
Iron, Dissolved	ug/L	MW-17	10/23/2001	ND	100.0000		
Iron, Dissolved	ug/L	MW-17	04/28/2002	ND	100.0000		
Iron, Dissolved	ug/L	MW-17	10/06/2002	ND	100.0000		
Iron, Dissolved	ug/L	MW-17	04/03/2003	ND	100.0000		
Iron, Dissolved	ug/L	MW-17	10/07/2003	ND	100.0000		
Iron, Dissolved	ug/L	MW-17	04/30/2004	ND	100.0000		
Iron, Dissolved	ug/L	MW-17	10/12/2004	ND	100.0000		
Iron, Dissolved	ug/L	MW-17	04/26/2005	ND	100.0000		
Iron, Dissolved	ug/L	MW-17	10/11/2005	ND	100.0000		
Iron, Dissolved	ug/L	MW-17	04/26/2006	ND	100.0000		
Iron, Dissolved	ug/L	MW-17	10/05/2006	ND	100.0000		
Iron, Dissolved	ug/L	MW-17	04/23/2007	ND	100.0000		
Iron, Dissolved	ug/L	MW-17	10/09/2007	ND	100.0000		
Iron, Dissolved	ug/L	MW-17	04/07/2008	ND	100.0000		
Iron, Dissolved	ug/L	MW-17	10/14/2008	ND	100.0000		
Iron, Dissolved	ug/L	MW-17	04/07/2009	ND	100.0000		
Iron, Dissolved	ug/L	MW-17	10/05/2009	ND	100.0000		
Iron, Dissolved	ug/L	MW-17	04/01/2010	ND	100.0000		
Iron, Dissolved	ug/L	MW-17	10/01/2010	ND	100.0000		
Iron, Dissolved	ug/L	MW-17	04/07/2011	ND	100.0000		
Iron, Dissolved	ug/L	MW-17	10/27/2011	ND	100.0000		
Iron, Dissolved	ug/L	MW-17	04/23/2012	ND	100.0000		
Iron, Dissolved	ug/L	MW-17	10/23/2012	ND	100.0000		
Iron, Dissolved	ug/L	MW-17	04/16/2013	ND	100.0000		
Iron, Dissolved	ug/L	MW-17	10/28/2013	ND	100.0000		
Iron, Dissolved	ug/L	MW-17	04/24/2014	ND	100.0000		
Iron, Dissolved	ug/L	MW-17	10/06/2014	ND	100.0000		
Iron, Dissolved	ug/L	MW-17	04/21/2015	ND	100.0000		
Iron, Dissolved	ug/L	MW-17	10/05/2015	ND	100.0000		
Iron, Dissolved	ug/L	MW-17	04/26/2016	ND	100.0000		
Iron, Dissolved	ug/L	MW-17	10/05/2016	ND	100.0000		
Iron, Dissolved	ug/L	MW-17	04/04/2017	ND	500.0000	100.0000	**
Iron, Dissolved	ug/L	MW-17	10/10/2017	ND	500.0000	100.0000	**
Iron, Dissolved	ug/L	MW-17	04/11/2018	ND	500.0000	100.0000	**
Iron, Dissolved	ug/L	MW-17	10/30/2018	ND	500.0000	100.0000	**
Iron, Dissolved	ug/L	MW-17	04/01/2019	ND	500.0000	100.0000	**
Iron, Dissolved	ug/L	MW-17	10/08/2019	ND	500.0000	100.0000	**
Iron, Dissolved	ug/L	MW-17	04/20/2020	ND	500.0000	100.0000	**
Iron, Dissolved	ug/L	MW-17	10/20/2020	ND	500.0000	100.0000	**
Iron, Dissolved	ug/L	MW-17	04/26/2021	ND	500.0000	100.0000	**
Iron, Dissolved	ug/L	MW-17	08/16/2021	ND	500.0000	100.0000	**
Iron, Dissolved	ug/L	MW-17	06/01/2022	ND	500.0000	100.0000	**
Iron, Dissolved	ug/L	MW-17	10/03/2022	ND	500.0000	100.0000	**
Iron, Dissolved	ug/L	MW-17	05/03/2023	ND	500.0000	100.0000	**
Iron, Dissolved	ug/L	MW-17	10/11/2023	ND	500.0000	100.0000	**
pH	S.U.	MW-17	04/22/1998		7.0000		
pH	S.U.	MW-17	07/01/1998		7.0000		

* - Outlier for that well and constituent.

** - ND value replaced with median RL.

*** - ND value replaced with manual RL.

ND = Not detected, Result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date	Result	Adjusted
pH	S.U.	MW-17	10/19/1998	6.8000	
pH	S.U.	MW-17	04/30/1999	6.8000	
pH	S.U.	MW-17	09/01/1999	6.8000	
pH	S.U.	MW-17	04/12/2000	7.0000	
pH	S.U.	MW-17	10/17/2000	5.1000	
pH	S.U.	MW-17	04/25/2001	7.5000	
pH	S.U.	MW-17	10/23/2001	7.5000	
pH	S.U.	MW-17	04/28/2002	6.9000	
pH	S.U.	MW-17	10/06/2002	7.4000	
pH	S.U.	MW-17	04/03/2003	7.3000	
pH	S.U.	MW-17	10/07/2003	7.6000	
pH	S.U.	MW-17	04/30/2004	6.9000	
pH	S.U.	MW-17	10/12/2004	7.2000	
pH	S.U.	MW-17	04/26/2005	7.2000	
pH	S.U.	MW-17	10/11/2005	7.4000	
pH	S.U.	MW-17	04/26/2006	7.2000	
pH	S.U.	MW-17	10/05/2006	7.4000	
pH	S.U.	MW-17	04/23/2007	7.2000	
pH	S.U.	MW-17	10/09/2007	7.2000	
pH	S.U.	MW-17	04/07/2008	7.1000	
pH	S.U.	MW-17	10/14/2008	7.3000	
pH	S.U.	MW-17	04/07/2009	6.9000	
pH	S.U.	MW-17	10/05/2009	7.2000	
pH	S.U.	MW-17	04/01/2010	7.3000	
pH	S.U.	MW-17	10/01/2010	7.1000	
pH	S.U.	MW-17	04/07/2011	7.2000	
pH	S.U.	MW-17	10/27/2011	7.1000	
pH	S.U.	MW-17	04/23/2012	7.1000	
pH	S.U.	MW-17	10/23/2012	7.1000	
pH	S.U.	MW-17	04/16/2013	7.3000	
pH	S.U.	MW-17	10/28/2013	7.4000	
pH	S.U.	MW-17	04/24/2014	7.2300	
pH	S.U.	MW-17	10/06/2014	7.2800	
pH	S.U.	MW-17	04/21/2015	6.9000	
pH	S.U.	MW-17	10/05/2015	7.2100	
pH	S.U.	MW-17	04/26/2016	7.0800	
pH	S.U.	MW-17	10/05/2016	7.0000	
pH	S.U.	MW-17	04/04/2017	7.2900	
pH	S.U.	MW-17	10/10/2017	7.1400	
pH	S.U.	MW-17	04/11/2018	7.0700	
pH	S.U.	MW-17	10/30/2018	6.7300	
pH	S.U.	MW-17	04/01/2019	7.0500	
pH	S.U.	MW-17	10/08/2019	7.0600	
pH	S.U.	MW-17	04/20/2020	7.3300	
pH	S.U.	MW-17	10/20/2020	7.5900	
pH	S.U.	MW-17	04/26/2021	7.6900	
pH	S.U.	MW-17	08/16/2021	7.3900	
pH	S.U.	MW-17	06/01/2022	7.0500	
pH	S.U.	MW-17	10/03/2022	7.5100	
pH	S.U.	MW-17	05/03/2023	6.4700	
pH	S.U.	MW-17	10/11/2023	7.4500	
Specific Conductance	umhos/cm	MW-17	04/22/1998	408.0000	
Specific Conductance	umhos/cm	MW-17	07/01/1998	450.0000	
Specific Conductance	umhos/cm	MW-17	10/19/1998	444.0000	
Specific Conductance	umhos/cm	MW-17	04/30/1999	449.0000	
Specific Conductance	umhos/cm	MW-17	09/01/1999	449.0000	
Specific Conductance	umhos/cm	MW-17	04/12/2000	465.0000	
Specific Conductance	umhos/cm	MW-17	10/17/2000	440.0000	
Specific Conductance	umhos/cm	MW-17	04/25/2001	511.0000	
Specific Conductance	umhos/cm	MW-17	10/23/2001	473.0000	
Specific Conductance	umhos/cm	MW-17	04/28/2002	427.0000	
Specific Conductance	umhos/cm	MW-17	10/06/2002	417.0000	
Specific Conductance	umhos/cm	MW-17	04/03/2003	299.0000	
Specific Conductance	umhos/cm	MW-17	10/07/2003	572.0000	
Specific Conductance	umhos/cm	MW-17	04/30/2004	525.0000	
Specific Conductance	umhos/cm	MW-17	10/12/2004	861.0000	
Specific Conductance	umhos/cm	MW-17	04/26/2005	131.0000	*
Specific Conductance	umhos/cm	MW-17	10/11/2005	699.0000	
Specific Conductance	umhos/cm	MW-17	04/26/2006	632.0000	
Specific Conductance	umhos/cm	MW-17	10/05/2006	620.0000	
Specific Conductance	umhos/cm	MW-17	04/23/2007	638.0000	
Specific Conductance	umhos/cm	MW-17	10/09/2007	663.0000	
Specific Conductance	umhos/cm	MW-17	04/07/2008	729.0000	
Specific Conductance	umhos/cm	MW-17	10/14/2008	646.0000	

* - Outlier for that well and constituent.

** - ND value replaced with median RL.

*** - ND value replaced with manual RL.

ND = Not detected, Result = detection limit.

Table 1

Upgradient Data

Constituent	Units	Well	Date		Result	Adjusted	
Specific Conductance	umhos/cm	MW-17	04/07/2009		613.0000		
Specific Conductance	umhos/cm	MW-17	10/05/2009		625.0000		
Specific Conductance	umhos/cm	MW-17	04/01/2010		649.0000		
Specific Conductance	umhos/cm	MW-17	10/01/2010		636.0000		
Specific Conductance	umhos/cm	MW-17	04/07/2011		591.0000		
Specific Conductance	umhos/cm	MW-17	10/27/2011		611.0000		
Specific Conductance	umhos/cm	MW-17	04/23/2012		599.0000		
Specific Conductance	umhos/cm	MW-17	10/23/2012		774.0000		
Specific Conductance	umhos/cm	MW-17	04/16/2013		725.0000		
Specific Conductance	umhos/cm	MW-17	10/28/2013		745.0000		
Specific Conductance	umhos/cm	MW-17	04/24/2014		780.0000		
Specific Conductance	umhos/cm	MW-17	10/06/2014		769.0000		
Specific Conductance	umhos/cm	MW-17	04/21/2015		777.0000		
Specific Conductance	umhos/cm	MW-17	10/05/2015		800.0000		
Specific Conductance	umhos/cm	MW-17	04/26/2016		777.0000		
Specific Conductance	umhos/cm	MW-17	10/05/2016		845.0000		
Specific Conductance	umhos/cm	MW-17	04/04/2017		752.0000		
Specific Conductance	umhos/cm	MW-17	10/10/2017		644.0000		
Specific Conductance	umhos/cm	MW-17	04/11/2018		733.0000		
Specific Conductance	umhos/cm	MW-17	10/30/2018		1115.0000		
Specific Conductance	umhos/cm	MW-17	04/01/2019		806.0000		
Specific Conductance	umhos/cm	MW-17	10/08/2019		856.0000		
Specific Conductance	umhos/cm	MW-17	04/20/2020		908.0000		
Specific Conductance	umhos/cm	MW-17	10/20/2020		860.0000		
Specific Conductance	umhos/cm	MW-17	04/26/2021		1025.0000		
Specific Conductance	umhos/cm	MW-17	08/16/2021		1058.0000		
Specific Conductance	umhos/cm	MW-17	06/01/2022		1059.0000		
Specific Conductance	umhos/cm	MW-17	10/03/2022		852.0000		
Specific Conductance	umhos/cm	MW-17	05/03/2023		1326.0000		
Specific Conductance	umhos/cm	MW-17	10/11/2023		827.0000		

* - Outlier for that well and constituent.

** - ND value replaced with median RL.

*** - ND value replaced with manual RL.

ND = Not detected, Result = detection limit.

Table 2

Most Current Downgradient Monitoring Data

Constituent	Units	Well	Date		Result		Pred. Limit
Ammonia as N	mg/L	MW-10	10/11/2023	ND	0.2000		0.2000
Chemical Oxygen Demand	mg/L	MW-10	10/11/2023		40.9000	***	21.2000
Chloride	mg/L	MW-10	10/11/2023		101.0000	***	7.3000
Iron, Dissolved	ug/L	MW-10	10/11/2023	ND	500.0000		100.0000
pH	S.U.	MW-10	10/11/2023		7.3000		5.10 - 7.69
Specific Conductance	umhos/cm	MW-10	10/11/2023		1394.0000	***	1188.4824
Ammonia as N	mg/L	MW-11	10/11/2023	ND	0.2000		0.2000
Chemical Oxygen Demand	mg/L	MW-11	10/11/2023		9.4800		21.2000
Chloride	mg/L	MW-11	10/11/2023		55.4000	***	7.3000
Iron, Dissolved	ug/L	MW-11	10/11/2023	ND	500.0000		100.0000
pH	S.U.	MW-11	10/11/2023		7.0100		5.10 - 7.69
Specific Conductance	umhos/cm	MW-11	10/11/2023		1300.0000	***	1188.4824
Ammonia as N	mg/L	MW-12	10/11/2023	ND	0.2000		0.2000
Chemical Oxygen Demand	mg/L	MW-12	10/11/2023		20.3000		21.2000
Chloride	mg/L	MW-12	10/11/2023		34.0000	***	7.3000
Iron, Dissolved	ug/L	MW-12	10/11/2023		7290.0000	***	100.0000
pH	S.U.	MW-12	10/11/2023		6.5400		5.10 - 7.69
Specific Conductance	umhos/cm	MW-12	10/11/2023		1422.0000	***	1188.4824
Ammonia as N	mg/L	MW-13	10/11/2023	ND	0.2000		0.2000
Chemical Oxygen Demand	mg/L	MW-13	10/11/2023		20.3000	**	21.2000
Chloride	mg/L	MW-13	10/11/2023		33.1000	***	7.3000
Iron, Dissolved	ug/L	MW-13	10/11/2023		747.0000	***	100.0000
pH	S.U.	MW-13	10/11/2023		6.8700		5.10 - 7.69
Specific Conductance	umhos/cm	MW-13	10/11/2023		990.0000	**	1188.4824
Ammonia as N	mg/L	MW-14	10/11/2023	ND	0.2000		0.2000
Chemical Oxygen Demand	mg/L	MW-14	10/11/2023		42.6000	***	21.2000
Chloride	mg/L	MW-14	10/11/2023		109.0000	***	7.3000
Iron, Dissolved	ug/L	MW-14	10/11/2023	ND	500.0000		100.0000
pH	S.U.	MW-14	10/11/2023		6.6200		5.10 - 7.69
Specific Conductance	umhos/cm	MW-14	10/11/2023		1600.0000	***	1188.4824
Ammonia as N	mg/L	MW-16	10/11/2023	ND	0.2000		0.2000
Chemical Oxygen Demand	mg/L	MW-16	10/11/2023		28.7000	*	21.2000
Chloride	mg/L	MW-16	10/11/2023		7.8900	*	7.3000
Iron, Dissolved	ug/L	MW-16	10/11/2023	ND	500.0000		100.0000
pH	S.U.	MW-16	10/11/2023		6.9900		5.10 - 7.69
Specific Conductance	umhos/cm	MW-16	10/11/2023		1432.0000	***	1188.4824
Ammonia as N	mg/L	MW-8	10/11/2023	ND	0.2000		0.2000
Chemical Oxygen Demand	mg/L	MW-8	10/11/2023		14.2000		21.2000
Chloride	mg/L	MW-8	10/11/2023		12.7000	***	7.3000
Iron, Dissolved	ug/L	MW-8	10/11/2023	ND	500.0000		100.0000
pH	S.U.	MW-8	10/11/2023		7.2700		5.10 - 7.69
Specific Conductance	umhos/cm	MW-8	10/11/2023		1393.0000	***	1188.4824

* - Current value failed - awaiting verification.

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

*** - Current value failed - exceedance verified.

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

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

ND = Not Detected, Result = detection limit.

Table 3**Detection Frequencies in Upgradient and Downgradient Wells**

Constituent	Detect	Upgradient N	Proportion	Detect	Downgradient N	Proportion
Ammonia as N	0	55	0.000	7	348	0.020
Chemical Oxygen Demand	12	55	0.218	196	348	0.563
Chloride	4	55	0.073	348	348	1.000
Iron, Dissolved	0	55	0.000	108	348	0.310
pH	53	53	1.000	348	348	1.000
Specific Conductance	52	52	1.000	348	348	1.000

N = Total number of measurements in all wells.

Detect = Total number of detections in all wells.

Proportion = Detect/N.

Table 4

Shapiro-Wilk Multiple Group Test of Normality

Constituent	Detect	N	Detect Freq	G raw	G log	G cbrt	G sqrt	G sqr	G cub	Crit Value	Dist Form	Model Type
Ammonia as N	0	55	0.000									nonpar
Chemical Oxygen Demand	12	55	0.218	1.995	0.266					2.326	normal	nonpar
Chloride	4	55	0.073	1.334	1.586					2.326	normal	nonpar
Iron, Dissolved	0	55	0.000									nonpar
pH	53	53	1.000	5.735	6.521					2.326	non-norm	nonpar
Specific Conductance	52	52	1.000	0.652	0.548					2.326	normal	normal

* - Distribution override for that constituent.

Fit to distribution is confirmed if $G \leq$ critical value.

Model type may not match distributional form when detection frequency < 50%.

Table 5

Summary Statistics and Prediction Limits

Constituent	Units	Detect	N	Mean	SD	alpha	Factor	Pred Limit	Type		Conf
Ammonia as N	mg/L	0	55					0.2000	nonpar	***	0.99
Chemical Oxygen Demand	mg/L	12	55					21.2000	nonpar		0.99
Chloride	mg/L	4	55					7.3000	nonpar		0.99
Iron, Dissolved	ug/L	0	55					100.0000	nonpar	***	0.99
pH	S.U.	53	53					5.10- 7.69	nonpar		0.99
Specific Conductance	umhos/cm	52	52	691.4231	205.0026	0.0100	2.4246	1188.4824	normal		

Conf = confidence level for passing initial test or one verification resample at all downgradient wells for a single constituent (nonparametric test only).

* - Insufficient Data.

** - Calculated limit raised to Manual Reporting Limit.

*** - Nonparametric limit based on ND value.

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

All sample sizes and statistics are based on outlier free data.

For nonparametric limits, median reporting limits are substituted for extreme reporting limit values.

Table 6

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

Constituent	Units	Well	Date	Result	ND Qualifier	Date Range	N	Critical Value
Specific Conductance	umhos/cm	MW-17	04/26/2005	131.0000		04/22/1998-10/11/2023	53	0.3771

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

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

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

Table 8

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

Constituent	Units	Well	Date		Result	Pred. Limit
Chemical Oxygen Demand	mg/L	MW-10	08/09/1996		140.0000 *	21.2000
Chemical Oxygen Demand	mg/L	MW-10	10/10/1996	ND	5.0000	21.2000
Chemical Oxygen Demand	mg/L	MW-10	01/21/1997		5.7000	21.2000
Chemical Oxygen Demand	mg/L	MW-10	04/17/1997	ND	5.0000	21.2000
Chemical Oxygen Demand	mg/L	MW-10	10/04/1997	ND	5.0000	21.2000
Chemical Oxygen Demand	mg/L	MW-10	04/22/1998	ND	5.0000	21.2000
Chemical Oxygen Demand	mg/L	MW-10	10/19/1998	ND	5.0000	21.2000
Chemical Oxygen Demand	mg/L	MW-10	04/30/1999		63.0000 *	21.2000
Chemical Oxygen Demand	mg/L	MW-10	09/01/1999	ND	5.0000	21.2000
Chemical Oxygen Demand	mg/L	MW-10	04/12/2000	ND	5.0000	21.2000
Chemical Oxygen Demand	mg/L	MW-10	10/17/2000	ND	5.0000	21.2000
Chemical Oxygen Demand	mg/L	MW-10	04/25/2001	ND	5.0000	21.2000
Chemical Oxygen Demand	mg/L	MW-10	10/23/2001	ND	5.0000	21.2000
Chemical Oxygen Demand	mg/L	MW-10	04/28/2002		5.7000	21.2000
Chemical Oxygen Demand	mg/L	MW-10	10/06/2002		6.9000	21.2000
Chemical Oxygen Demand	mg/L	MW-10	04/03/2003	ND	5.0000	21.2000
Chemical Oxygen Demand	mg/L	MW-10	10/07/2003	ND	5.0000	21.2000
Chemical Oxygen Demand	mg/L	MW-10	04/30/2004	ND	5.0000	21.2000
Chemical Oxygen Demand	mg/L	MW-10	10/12/2004	ND	5.0000	21.2000
Chemical Oxygen Demand	mg/L	MW-10	04/26/2005	ND	5.0000	21.2000
Chemical Oxygen Demand	mg/L	MW-10	10/11/2005	ND	5.0000	21.2000
Chemical Oxygen Demand	mg/L	MW-10	04/26/2006	ND	5.0000	21.2000
Chemical Oxygen Demand	mg/L	MW-10	10/05/2006		11.3000	21.2000
Chemical Oxygen Demand	mg/L	MW-10	04/23/2007		12.1000	21.2000
Chemical Oxygen Demand	mg/L	MW-10	10/09/2007		8.0000	21.2000
Chemical Oxygen Demand	mg/L	MW-10	04/07/2008	ND	5.0000	21.2000
Chemical Oxygen Demand	mg/L	MW-10	10/14/2008		11.4000	21.2000
Chemical Oxygen Demand	mg/L	MW-10	04/07/2009		10.4000	21.2000
Chemical Oxygen Demand	mg/L	MW-10	10/05/2009	ND	5.0000	21.2000
Chemical Oxygen Demand	mg/L	MW-10	04/01/2010		9.6000	21.2000
Chemical Oxygen Demand	mg/L	MW-10	10/01/2010		21.8000 *	21.2000
Chemical Oxygen Demand	mg/L	MW-10	04/07/2011		9.1000	21.2000
Chemical Oxygen Demand	mg/L	MW-10	10/27/2011		26.7000 *	21.2000
Chemical Oxygen Demand	mg/L	MW-10	04/23/2012	ND	5.0000	21.2000
Chemical Oxygen Demand	mg/L	MW-10	10/23/2012		43.2000 *	21.2000
Chemical Oxygen Demand	mg/L	MW-10	04/16/2013		12.2000	21.2000
Chemical Oxygen Demand	mg/L	MW-10	10/28/2013		62.1000 *	21.2000
Chemical Oxygen Demand	mg/L	MW-10	04/24/2014		6.7000	21.2000
Chemical Oxygen Demand	mg/L	MW-10	10/06/2014		15.8000	21.2000
Chemical Oxygen Demand	mg/L	MW-10	04/21/2015		12.5000	21.2000
Chemical Oxygen Demand	mg/L	MW-10	10/05/2015		18.9000	21.2000
Chemical Oxygen Demand	mg/L	MW-10	04/26/2016		24.6000 *	21.2000
Chemical Oxygen Demand	mg/L	MW-10	10/05/2016		41.8000 *	21.2000
Chemical Oxygen Demand	mg/L	MW-10	04/04/2017	ND	5.0000	21.2000
Chemical Oxygen Demand	mg/L	MW-10	10/10/2017		12.1000	21.2000
Chemical Oxygen Demand	mg/L	MW-10	04/11/2018		21.4000 *	21.2000
Chemical Oxygen Demand	mg/L	MW-10	10/30/2018		55.1000 *	21.2000
Chemical Oxygen Demand	mg/L	MW-10	04/01/2019		37.8000 *	21.2000
Chemical Oxygen Demand	mg/L	MW-10	10/08/2019		44.5000 *	21.2000
Chemical Oxygen Demand	mg/L	MW-10	04/20/2020		53.4000 *	21.2000
Chemical Oxygen Demand	mg/L	MW-10	10/20/2020		64.2000 *	21.2000
Chemical Oxygen Demand	mg/L	MW-10	04/26/2021		66.8000 *	21.2000
Chemical Oxygen Demand	mg/L	MW-10	08/16/2021		28.6000 *	21.2000
Chemical Oxygen Demand	mg/L	MW-10	06/01/2022		36.2000 *	21.2000
Chemical Oxygen Demand	mg/L	MW-10	05/03/2023		26.6000 *	21.2000
Chemical Oxygen Demand	mg/L	MW-10	10/11/2023		40.9000 *	21.2000
Chloride	mg/L	MW-10	08/09/1996		13.0000 *	7.3000
Chloride	mg/L	MW-10	10/10/1996		14.0000 *	7.3000
Chloride	mg/L	MW-10	01/21/1997		15.0000 *	7.3000
Chloride	mg/L	MW-10	04/17/1997		22.0000 *	7.3000
Chloride	mg/L	MW-10	10/04/1997		19.0000 *	7.3000
Chloride	mg/L	MW-10	04/22/1998		19.6000 *	7.3000
Chloride	mg/L	MW-10	10/19/1998		20.0000 *	7.3000
Chloride	mg/L	MW-10	04/30/1999		21.0000 *	7.3000
Chloride	mg/L	MW-10	09/01/1999		21.0000 *	7.3000
Chloride	mg/L	MW-10	04/12/2000		18.6000 *	7.3000
Chloride	mg/L	MW-10	10/17/2000		19.7000 *	7.3000
Chloride	mg/L	MW-10	04/25/2001		16.7000 *	7.3000
Chloride	mg/L	MW-10	10/23/2001		18.6000 *	7.3000
Chloride	mg/L	MW-10	04/28/2002		17.9000 *	7.3000
Chloride	mg/L	MW-10	10/06/2002		17.8000 *	7.3000

* - Significantly increased over background.

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

*** - Manual exclusion.

ND = Not Detected, Result = detection limit.

Table 8

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

Constituent	Units	Well	Date		Result	Pred. Limit
Chloride	mg/L	MW-10	04/03/2003		23.0000 *	7.3000
Chloride	mg/L	MW-10	10/07/2003		23.6000 *	7.3000
Chloride	mg/L	MW-10	04/30/2004		24.0000 *	7.3000
Chloride	mg/L	MW-10	10/12/2004		26.2000 *	7.3000
Chloride	mg/L	MW-10	04/26/2005		28.1000 *	7.3000
Chloride	mg/L	MW-10	10/11/2005		28.7000 *	7.3000
Chloride	mg/L	MW-10	04/26/2006		26.2000 *	7.3000
Chloride	mg/L	MW-10	10/05/2006		25.1000 *	7.3000
Chloride	mg/L	MW-10	04/23/2007		28.8000 *	7.3000
Chloride	mg/L	MW-10	10/09/2007		31.1000 *	7.3000
Chloride	mg/L	MW-10	04/07/2008		33.9000 *	7.3000
Chloride	mg/L	MW-10	10/14/2008		35.4000 *	7.3000
Chloride	mg/L	MW-10	04/07/2009		37.4000 *	7.3000
Chloride	mg/L	MW-10	10/05/2009		39.6000 *	7.3000
Chloride	mg/L	MW-10	04/01/2010		50.8000 *	7.3000
Chloride	mg/L	MW-10	10/01/2010		52.4000 *	7.3000
Chloride	mg/L	MW-10	04/07/2011		51.8000 *	7.3000
Chloride	mg/L	MW-10	10/27/2011		65.7000 *	7.3000
Chloride	mg/L	MW-10	04/23/2012		56.1000 *	7.3000
Chloride	mg/L	MW-10	10/23/2012		46.7000 *	7.3000
Chloride	mg/L	MW-10	04/16/2013		47.0000 *	7.3000
Chloride	mg/L	MW-10	10/28/2013		58.5000 *	7.3000
Chloride	mg/L	MW-10	04/24/2014		55.4000 *	7.3000
Chloride	mg/L	MW-10	10/06/2014		69.7000 *	7.3000
Chloride	mg/L	MW-10	04/21/2015		81.8000 *	7.3000
Chloride	mg/L	MW-10	10/05/2015		80.2000 *	7.3000
Chloride	mg/L	MW-10	04/26/2016		101.0000 *	7.3000
Chloride	mg/L	MW-10	10/05/2016		179.0000 *	7.3000
Chloride	mg/L	MW-10	04/04/2017		112.0000 *	7.3000
Chloride	mg/L	MW-10	10/10/2017		85.4000 *	7.3000
Chloride	mg/L	MW-10	04/11/2018		102.0000 *	7.3000
Chloride	mg/L	MW-10	10/30/2018		140.0000 *	7.3000
Chloride	mg/L	MW-10	04/01/2019		372.0000 *	7.3000
Chloride	mg/L	MW-10	10/08/2019		196.0000 *	7.3000
Chloride	mg/L	MW-10	04/20/2020		295.0000 *	7.3000
Chloride	mg/L	MW-10	10/20/2020		269.0000 *	7.3000
Chloride	mg/L	MW-10	04/26/2021		392.0000 *	7.3000
Chloride	mg/L	MW-10	08/16/2021		115.0000 *	7.3000
Chloride	mg/L	MW-10	06/01/2022		107.0000 *	7.3000
Chloride	mg/L	MW-10	05/03/2023		166.0000 *	7.3000
Chloride	mg/L	MW-10	10/11/2023		101.0000 *	7.3000
Specific Conductance	umhos/cm	MW-10	08/09/1996		787.0000	1188.4824
Specific Conductance	umhos/cm	MW-10	10/10/1996		695.0000	1188.4824
Specific Conductance	umhos/cm	MW-10	01/21/1997		625.0000	1188.4824
Specific Conductance	umhos/cm	MW-10	04/17/1997		724.0000	1188.4824
Specific Conductance	umhos/cm	MW-10	10/04/1997		644.0000	1188.4824
Specific Conductance	umhos/cm	MW-10	04/22/1998		684.0000	1188.4824
Specific Conductance	umhos/cm	MW-10	10/19/1998		742.0000	1188.4824
Specific Conductance	umhos/cm	MW-10	04/30/1999		713.0000	1188.4824
Specific Conductance	umhos/cm	MW-10	09/01/1999		774.0000	1188.4824
Specific Conductance	umhos/cm	MW-10	04/12/2000		700.0000	1188.4824
Specific Conductance	umhos/cm	MW-10	10/17/2000		729.0000	1188.4824
Specific Conductance	umhos/cm	MW-10	04/25/2001		570.0000	1188.4824
Specific Conductance	umhos/cm	MW-10	10/23/2001		740.0000	1188.4824
Specific Conductance	umhos/cm	MW-10	04/28/2002		463.0000	1188.4824
Specific Conductance	umhos/cm	MW-10	10/06/2002		645.0000	1188.4824
Specific Conductance	umhos/cm	MW-10	04/03/2003		753.0000	1188.4824
Specific Conductance	umhos/cm	MW-10	10/07/2003		550.0000	1188.4824
Specific Conductance	umhos/cm	MW-10	04/30/2004		693.0000	1188.4824
Specific Conductance	umhos/cm	MW-10	10/12/2004		532.0000	1188.4824
Specific Conductance	umhos/cm	MW-10	04/26/2005		575.0000	1188.4824
Specific Conductance	umhos/cm	MW-10	10/11/2005		1051.0000	1188.4824
Specific Conductance	umhos/cm	MW-10	04/26/2006		879.0000	1188.4824
Specific Conductance	umhos/cm	MW-10	10/05/2006		972.0000	1188.4824
Specific Conductance	umhos/cm	MW-10	04/23/2007		943.0000	1188.4824
Specific Conductance	umhos/cm	MW-10	10/09/2007		1062.0000	1188.4824
Specific Conductance	umhos/cm	MW-10	04/07/2008		1199.0000 *	1188.4824
Specific Conductance	umhos/cm	MW-10	10/14/2008		1069.0000	1188.4824
Specific Conductance	umhos/cm	MW-10	04/07/2009		982.0000	1188.4824
Specific Conductance	umhos/cm	MW-10	10/05/2009		973.0000	1188.4824
Specific Conductance	umhos/cm	MW-10	04/01/2010		1045.0000	1188.4824

* - Significantly increased over background.

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

*** - Manual exclusion.

ND = Not Detected, Result = detection limit.

Table 8

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

Constituent	Units	Well	Date		Result	Pred. Limit
Specific Conductance	umhos/cm	MW-10	10/01/2010		1100.0000	1188.4824
Specific Conductance	umhos/cm	MW-10	04/07/2011		1014.0000	1188.4824
Specific Conductance	umhos/cm	MW-10	10/27/2011		1141.0000	1188.4824
Specific Conductance	umhos/cm	MW-10	04/23/2012		1075.0000	1188.4824
Specific Conductance	umhos/cm	MW-10	10/23/2012		1258.0000 *	1188.4824
Specific Conductance	umhos/cm	MW-10	04/16/2013		1166.0000	1188.4824
Specific Conductance	umhos/cm	MW-10	10/28/2013		1297.0000 *	1188.4824
Specific Conductance	umhos/cm	MW-10	04/24/2014		1248.0000 *	1188.4824
Specific Conductance	umhos/cm	MW-10	10/06/2014		1394.0000 *	1188.4824
Specific Conductance	umhos/cm	MW-10	04/21/2015		1374.0000 *	1188.4824
Specific Conductance	umhos/cm	MW-10	10/05/2015		1394.0000 *	1188.4824
Specific Conductance	umhos/cm	MW-10	04/26/2016		1241.0000 *	1188.4824
Specific Conductance	umhos/cm	MW-10	10/05/2016		1785.0000 *	1188.4824
Specific Conductance	umhos/cm	MW-10	04/04/2017		1325.0000 *	1188.4824
Specific Conductance	umhos/cm	MW-10	10/10/2017		1146.0000	1188.4824
Specific Conductance	umhos/cm	MW-10	04/11/2018		1200.0000 *	1188.4824
Specific Conductance	umhos/cm	MW-10	10/30/2018		1776.0000 *	1188.4824
Specific Conductance	umhos/cm	MW-10	04/01/2019		1890.0000 *	1188.4824
Specific Conductance	umhos/cm	MW-10	10/08/2019		1855.0000 *	1188.4824
Specific Conductance	umhos/cm	MW-10	04/20/2020		1861.0000 *	1188.4824
Specific Conductance	umhos/cm	MW-10	10/20/2020		2520.0000 *	1188.4824
Specific Conductance	umhos/cm	MW-10	04/26/2021		1999.0000 *	1188.4824
Specific Conductance	umhos/cm	MW-10	08/16/2021		1673.0000 *	1188.4824
Specific Conductance	umhos/cm	MW-10	06/01/2022		1472.0000 *	1188.4824
Specific Conductance	umhos/cm	MW-10	05/03/2023		1538.0000 *	1188.4824
Specific Conductance	umhos/cm	MW-10	10/11/2023		1394.0000 *	1188.4824
Chloride	mg/L	MW-11	07/12/1996		19.0000 *	7.3000
Chloride	mg/L	MW-11	10/10/1996		19.0000 *	7.3000
Chloride	mg/L	MW-11	01/21/1997		22.0000 *	7.3000
Chloride	mg/L	MW-11	04/17/1997		20.0000 *	7.3000
Chloride	mg/L	MW-11	10/04/1997		28.0000 *	7.3000
Chloride	mg/L	MW-11	04/22/1998		20.2000 *	7.3000
Chloride	mg/L	MW-11	10/19/1998		32.0000 *	7.3000
Chloride	mg/L	MW-11	04/30/1999		37.0000 *	7.3000
Chloride	mg/L	MW-11	09/01/1999		33.0000 *	7.3000
Chloride	mg/L	MW-11	04/12/2000		6.4000	7.3000
Chloride	mg/L	MW-11	10/17/2000		5.5000	7.3000
Chloride	mg/L	MW-11	04/25/2001		12.9000 *	7.3000
Chloride	mg/L	MW-11	10/23/2001		16.0000 *	7.3000
Chloride	mg/L	MW-11	04/28/2002		18.0000 *	7.3000
Chloride	mg/L	MW-11	10/06/2002		18.8000 *	7.3000
Chloride	mg/L	MW-11	04/03/2003		12.3000 *	7.3000
Chloride	mg/L	MW-11	10/07/2003		15.8000 *	7.3000
Chloride	mg/L	MW-11	04/30/2004		23.4000 *	7.3000
Chloride	mg/L	MW-11	10/12/2004		44.9000 *	7.3000
Chloride	mg/L	MW-11	04/26/2005		56.3000 *	7.3000
Chloride	mg/L	MW-11	10/11/2005		50.5000 *	7.3000
Chloride	mg/L	MW-11	04/26/2006		38.2000 *	7.3000
Chloride	mg/L	MW-11	10/05/2006		14.0000 *	7.3000
Chloride	mg/L	MW-11	04/23/2007		16.0000 *	7.3000
Chloride	mg/L	MW-11	10/09/2007		23.9000 *	7.3000
Chloride	mg/L	MW-11	04/07/2008		67.9000 *	7.3000
Chloride	mg/L	MW-11	10/14/2008		67.1000 *	7.3000
Chloride	mg/L	MW-11	04/07/2009		64.9000 *	7.3000
Chloride	mg/L	MW-11	10/05/2009		61.3000 *	7.3000
Chloride	mg/L	MW-11	04/01/2010		61.6000 *	7.3000
Chloride	mg/L	MW-11	10/01/2010		46.1000 *	7.3000
Chloride	mg/L	MW-11	04/07/2011		59.9000 *	7.3000
Chloride	mg/L	MW-11	10/27/2011		61.9000 *	7.3000
Chloride	mg/L	MW-11	04/23/2012		72.4000 *	7.3000
Chloride	mg/L	MW-11	10/23/2012		29.3000 *	7.3000
Chloride	mg/L	MW-11	04/16/2013		17.6000 *	7.3000
Chloride	mg/L	MW-11	10/28/2013		57.6000 *	7.3000
Chloride	mg/L	MW-11	04/24/2014		64.2000 *	7.3000
Chloride	mg/L	MW-11	10/06/2014		45.1000 *	7.3000
Chloride	mg/L	MW-11	04/21/2015		78.7000 *	7.3000
Chloride	mg/L	MW-11	10/05/2015		84.3000 *	7.3000
Chloride	mg/L	MW-11	04/26/2016		61.1000 *	7.3000
Chloride	mg/L	MW-11	10/05/2016		78.5000 *	7.3000
Chloride	mg/L	MW-11	04/04/2017		102.0000 *	7.3000
Chloride	mg/L	MW-11	10/10/2017		91.8000 *	7.3000

* - Significantly increased over background.

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

*** - Manual exclusion.

ND = Not Detected, Result = detection limit.

Table 8

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

Constituent	Units	Well	Date		Result	Pred. Limit
Chloride	mg/L	MW-11	04/11/2018		89.3000 *	7.3000
Chloride	mg/L	MW-11	10/30/2018		75.1000 *	7.3000
Chloride	mg/L	MW-11	04/01/2019		81.0000 *	7.3000
Chloride	mg/L	MW-11	10/08/2019		69.2000 *	7.3000
Chloride	mg/L	MW-11	04/20/2020		72.0000 *	7.3000
Chloride	mg/L	MW-11	10/20/2020		84.1000 *	7.3000
Chloride	mg/L	MW-11	04/26/2021		100.0000 *	7.3000
Chloride	mg/L	MW-11	08/16/2021		38.4000 *	7.3000
Chloride	mg/L	MW-11	06/01/2022		26.9000 *	7.3000
Chloride	mg/L	MW-11	10/03/2022		24.3000 *	7.3000
Chloride	mg/L	MW-11	05/03/2023		25.1000 *	7.3000
Chloride	mg/L	MW-11	10/11/2023		55.4000 *	7.3000
Specific Conductance	umhos/cm	MW-11	07/12/1996		465.0000	1188.4824
Specific Conductance	umhos/cm	MW-11	10/10/1996		622.0000	1188.4824
Specific Conductance	umhos/cm	MW-11	01/21/1997		515.0000	1188.4824
Specific Conductance	umhos/cm	MW-11	04/17/1997		537.0000	1188.4824
Specific Conductance	umhos/cm	MW-11	10/04/1997		543.0000	1188.4824
Specific Conductance	umhos/cm	MW-11	04/22/1998		625.0000	1188.4824
Specific Conductance	umhos/cm	MW-11	10/19/1998		667.0000	1188.4824
Specific Conductance	umhos/cm	MW-11	04/30/1999		707.0000	1188.4824
Specific Conductance	umhos/cm	MW-11	09/01/1999		736.0000	1188.4824
Specific Conductance	umhos/cm	MW-11	04/12/2000		737.0000	1188.4824
Specific Conductance	umhos/cm	MW-11	10/17/2000		740.0000	1188.4824
Specific Conductance	umhos/cm	MW-11	04/25/2001		428.0000	1188.4824
Specific Conductance	umhos/cm	MW-11	10/23/2001		733.0000	1188.4824
Specific Conductance	umhos/cm	MW-11	04/28/2002		784.0000	1188.4824
Specific Conductance	umhos/cm	MW-11	10/06/2002		684.0000	1188.4824
Specific Conductance	umhos/cm	MW-11	04/03/2003		735.0000	1188.4824
Specific Conductance	umhos/cm	MW-11	10/07/2003		832.0000	1188.4824
Specific Conductance	umhos/cm	MW-11	04/30/2004		615.0000	1188.4824
Specific Conductance	umhos/cm	MW-11	10/12/2004		1266.0000 *	1188.4824
Specific Conductance	umhos/cm	MW-11	04/26/2005		658.0000	1188.4824
Specific Conductance	umhos/cm	MW-11	10/11/2005		989.0000	1188.4824
Specific Conductance	umhos/cm	MW-11	04/26/2006		882.0000	1188.4824
Specific Conductance	umhos/cm	MW-11	10/05/2006		975.0000	1188.4824
Specific Conductance	umhos/cm	MW-11	04/23/2007		979.0000	1188.4824
Specific Conductance	umhos/cm	MW-11	10/09/2007		1030.0000	1188.4824
Specific Conductance	umhos/cm	MW-11	04/07/2008		1170.0000	1188.4824
Specific Conductance	umhos/cm	MW-11	10/14/2008		992.0000	1188.4824
Specific Conductance	umhos/cm	MW-11	04/07/2009		1034.0000	1188.4824
Specific Conductance	umhos/cm	MW-11	10/05/2009		1052.0000	1188.4824
Specific Conductance	umhos/cm	MW-11	04/01/2010		1121.0000	1188.4824
Specific Conductance	umhos/cm	MW-11	10/01/2010		1071.0000	1188.4824
Specific Conductance	umhos/cm	MW-11	04/07/2011		1039.0000	1188.4824
Specific Conductance	umhos/cm	MW-11	10/27/2011		1003.0000	1188.4824
Specific Conductance	umhos/cm	MW-11	04/23/2012		1060.0000	1188.4824
Specific Conductance	umhos/cm	MW-11	10/23/2012		1187.0000	1188.4824
Specific Conductance	umhos/cm	MW-11	04/16/2013		1121.0000	1188.4824
Specific Conductance	umhos/cm	MW-11	10/28/2013		1193.0000 *	1188.4824
Specific Conductance	umhos/cm	MW-11	04/24/2014		1178.0000	1188.4824
Specific Conductance	umhos/cm	MW-11	10/06/2014		1082.0000	1188.4824
Specific Conductance	umhos/cm	MW-11	04/21/2015		1215.0000 *	1188.4824
Specific Conductance	umhos/cm	MW-11	10/05/2015		1221.0000 *	1188.4824
Specific Conductance	umhos/cm	MW-11	04/26/2016		1218.0000 *	1188.4824
Specific Conductance	umhos/cm	MW-11	10/05/2016		1299.0000 *	1188.4824
Specific Conductance	umhos/cm	MW-11	04/04/2017		1234.0000 *	1188.4824
Specific Conductance	umhos/cm	MW-11	10/10/2017		1196.0000 *	1188.4824
Specific Conductance	umhos/cm	MW-11	04/11/2018		1175.0000	1188.4824
Specific Conductance	umhos/cm	MW-11	10/30/2018		1204.0000 *	1188.4824
Specific Conductance	umhos/cm	MW-11	04/01/2019		1296.0000 *	1188.4824
Specific Conductance	umhos/cm	MW-11	10/08/2019		1316.0000 *	1188.4824
Specific Conductance	umhos/cm	MW-11	04/20/2020		1416.0000 *	1188.4824
Specific Conductance	umhos/cm	MW-11	10/20/2020		1462.0000 *	1188.4824
Specific Conductance	umhos/cm	MW-11	04/26/2021		1553.0000 *	1188.4824
Specific Conductance	umhos/cm	MW-11	08/16/2021		1465.0000 *	1188.4824
Specific Conductance	umhos/cm	MW-11	06/01/2022		1245.0000 *	1188.4824
Specific Conductance	umhos/cm	MW-11	10/03/2022		1266.0000 *	1188.4824
Specific Conductance	umhos/cm	MW-11	05/03/2023		1259.0000 *	1188.4824
Specific Conductance	umhos/cm	MW-11	10/11/2023		1300.0000 *	1188.4824
Chloride	mg/L	MW-12	10/10/1996		5.4000	7.3000
Chloride	mg/L	MW-12	01/21/1997		6.4000	7.3000

* - Significantly increased over background.

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

*** - Manual exclusion.

ND = Not Detected, Result = detection limit.

Table 8

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

Constituent	Units	Well	Date		Result	Pred. Limit
Chloride	mg/L	MW-12	04/17/1997		7.5000 *	7.3000
Chloride	mg/L	MW-12	07/15/1997		6.8000	7.3000
Chloride	mg/L	MW-12	10/04/1997		6.6000	7.3000
Chloride	mg/L	MW-12	04/22/1998		8.1000 *	7.3000
Chloride	mg/L	MW-12	10/19/1998		7.4000 *	7.3000
Chloride	mg/L	MW-12	04/30/1999		9.6000 *	7.3000
Chloride	mg/L	MW-12	09/01/1999		8.3000 *	7.3000
Chloride	mg/L	MW-12	04/12/2000		6.4000	7.3000
Chloride	mg/L	MW-12	10/17/2000		7.9000 *	7.3000
Chloride	mg/L	MW-12	04/25/2001		8.0000 *	7.3000
Chloride	mg/L	MW-12	10/23/2001		16.2000 *	7.3000
Chloride	mg/L	MW-12	04/28/2002		17.4000 *	7.3000
Chloride	mg/L	MW-12	10/06/2002		27.0000 *	7.3000
Chloride	mg/L	MW-12	04/03/2003		43.1000 *	7.3000
Chloride	mg/L	MW-12	10/07/2003		81.1000 *	7.3000
Chloride	mg/L	MW-12	04/30/2004		60.4000 *	7.3000
Chloride	mg/L	MW-12	10/12/2004		50.1000 *	7.3000
Chloride	mg/L	MW-12	04/26/2005		21.5000 *	7.3000
Chloride	mg/L	MW-12	10/11/2005		21.4000 *	7.3000
Chloride	mg/L	MW-12	04/26/2006		9.8800 *	7.3000
Chloride	mg/L	MW-12	10/05/2006		14.5000 *	7.3000
Chloride	mg/L	MW-12	04/23/2007		10.7000 *	7.3000
Chloride	mg/L	MW-12	10/09/2007		23.9000 *	7.3000
Chloride	mg/L	MW-12	04/07/2008		13.2000 *	7.3000
Chloride	mg/L	MW-12	10/14/2008		19.8000 *	7.3000
Chloride	mg/L	MW-12	04/07/2009		9.3000 *	7.3000
Chloride	mg/L	MW-12	10/05/2009		9.8000 *	7.3000
Chloride	mg/L	MW-12	04/01/2010		11.0000 *	7.3000
Chloride	mg/L	MW-12	10/01/2010		25.9000 *	7.3000
Chloride	mg/L	MW-12	04/07/2011		16.0000 *	7.3000
Chloride	mg/L	MW-12	10/27/2011		14.2000 *	7.3000
Chloride	mg/L	MW-12	04/23/2012		12.3000 *	7.3000
Chloride	mg/L	MW-12	10/23/2012		9.3700 *	7.3000
Chloride	mg/L	MW-12	04/16/2013		9.3200 *	7.3000
Chloride	mg/L	MW-12	10/28/2013		35.8000 *	7.3000
Chloride	mg/L	MW-12	04/24/2014		23.8000 *	7.3000
Chloride	mg/L	MW-12	10/06/2014		37.9000 *	7.3000
Chloride	mg/L	MW-12	04/21/2015		63.7000 *	7.3000
Chloride	mg/L	MW-12	10/05/2015		61.4000 *	7.3000
Chloride	mg/L	MW-12	04/26/2016		130.0000 *	7.3000
Chloride	mg/L	MW-12	10/05/2016		106.0000 *	7.3000
Chloride	mg/L	MW-12	04/04/2017		42.9000 *	7.3000
Chloride	mg/L	MW-12	10/10/2017		19.2000 *	7.3000
Chloride	mg/L	MW-12	04/11/2018		15.2000 *	7.3000
Chloride	mg/L	MW-12	10/30/2018		42.6000 *	7.3000
Chloride	mg/L	MW-12	04/01/2019		31.5000 *	7.3000
Chloride	mg/L	MW-12	10/08/2019		12.0000 *	7.3000
Chloride	mg/L	MW-12	04/20/2020		11.2000 *	7.3000
Chloride	mg/L	MW-12	10/20/2020		12.3000 *	7.3000
Chloride	mg/L	MW-12	04/26/2021		9.3200 *	7.3000
Chloride	mg/L	MW-12	08/16/2021		12.5000 *	7.3000
Chloride	mg/L	MW-12	06/01/2022		32.0000 *	7.3000
Chloride	mg/L	MW-12	10/03/2022		21.7000 *	7.3000
Chloride	mg/L	MW-12	05/03/2023		29.1000 *	7.3000
Chloride	mg/L	MW-12	10/11/2023		34.0000 *	7.3000
Iron, Dissolved	ug/L	MW-12	10/10/1996	ND	100.0000	100.0000
Iron, Dissolved	ug/L	MW-12	01/21/1997	ND	100.0000	100.0000
Iron, Dissolved	ug/L	MW-12	04/17/1997	ND	100.0000	100.0000
Iron, Dissolved	ug/L	MW-12	07/15/1997	ND	100.0000	100.0000
Iron, Dissolved	ug/L	MW-12	10/04/1997	ND	100.0000	100.0000
Iron, Dissolved	ug/L	MW-12	04/22/1998	ND	100.0000	100.0000
Iron, Dissolved	ug/L	MW-12	10/19/1998	ND	100.0000	100.0000
Iron, Dissolved	ug/L	MW-12	04/30/1999	ND	100.0000	100.0000
Iron, Dissolved	ug/L	MW-12	09/01/1999	ND	100.0000	100.0000
Iron, Dissolved	ug/L	MW-12	04/12/2000	ND	100.0000	100.0000
Iron, Dissolved	ug/L	MW-12	10/17/2000	ND	100.0000	100.0000
Iron, Dissolved	ug/L	MW-12	04/25/2001	ND	100.0000	100.0000
Iron, Dissolved	ug/L	MW-12	10/23/2001	ND	100.0000	100.0000
Iron, Dissolved	ug/L	MW-12	04/28/2002	ND	100.0000	100.0000
Iron, Dissolved	ug/L	MW-12	10/06/2002	ND	100.0000	100.0000
Iron, Dissolved	ug/L	MW-12	04/03/2003	ND	100.0000	100.0000

* - Significantly increased over background.

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

*** - Manual exclusion.

ND = Not Detected, Result = detection limit.

Table 8

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

Constituent	Units	Well	Date		Result	Pred. Limit
Iron, Dissolved	ug/L	MW-12	10/07/2003	ND	100.0000	100.0000
Iron, Dissolved	ug/L	MW-12	04/30/2004	ND	100.0000	100.0000
Iron, Dissolved	ug/L	MW-12	10/12/2004	ND	100.0000	100.0000
Iron, Dissolved	ug/L	MW-12	04/26/2005		300.0000 *	100.0000
Iron, Dissolved	ug/L	MW-12	10/11/2005		1500.0000 *	100.0000
Iron, Dissolved	ug/L	MW-12	04/26/2006		2290.0000 *	100.0000
Iron, Dissolved	ug/L	MW-12	10/05/2006		650.0000 *	100.0000
Iron, Dissolved	ug/L	MW-12	04/23/2007		816.0000 *	100.0000
Iron, Dissolved	ug/L	MW-12	10/09/2007		3090.0000 *	100.0000
Iron, Dissolved	ug/L	MW-12	04/07/2008		465.0000 *	100.0000
Iron, Dissolved	ug/L	MW-12	10/14/2008		1610.0000 *	100.0000
Iron, Dissolved	ug/L	MW-12	04/07/2009		2400.0000 *	100.0000
Iron, Dissolved	ug/L	MW-12	10/05/2009		7220.0000 *	100.0000
Iron, Dissolved	ug/L	MW-12	04/01/2010		5400.0000 *	100.0000
Iron, Dissolved	ug/L	MW-12	10/01/2010		6230.0000 *	100.0000
Iron, Dissolved	ug/L	MW-12	04/07/2011		5660.0000 *	100.0000
Iron, Dissolved	ug/L	MW-12	10/27/2011		5300.0000 *	100.0000
Iron, Dissolved	ug/L	MW-12	04/23/2012		4510.0000 *	100.0000
Iron, Dissolved	ug/L	MW-12	10/23/2012		7640.0000 *	100.0000
Iron, Dissolved	ug/L	MW-12	04/16/2013		5970.0000 *	100.0000
Iron, Dissolved	ug/L	MW-12	10/28/2013		8850.0000 *	100.0000
Iron, Dissolved	ug/L	MW-12	04/24/2014		10100.0000 *	100.0000
Iron, Dissolved	ug/L	MW-12	10/06/2014		13500.0000 *	100.0000
Iron, Dissolved	ug/L	MW-12	04/21/2015		19800.0000 *	100.0000
Iron, Dissolved	ug/L	MW-12	10/05/2015		21700.0000 *	100.0000
Iron, Dissolved	ug/L	MW-12	04/26/2016		15600.0000 *	100.0000
Iron, Dissolved	ug/L	MW-12	10/05/2016		19200.0000 *	100.0000
Iron, Dissolved	ug/L	MW-12	04/04/2017		13100.0000 *	100.0000
Iron, Dissolved	ug/L	MW-12	10/10/2017		17100.0000 *	100.0000
Iron, Dissolved	ug/L	MW-12	04/11/2018		22900.0000 *	100.0000
Iron, Dissolved	ug/L	MW-12	10/30/2018		27900.0000 *	100.0000
Iron, Dissolved	ug/L	MW-12	04/01/2019		20200.0000 *	100.0000
Iron, Dissolved	ug/L	MW-12	10/08/2019		27400.0000 *	100.0000
Iron, Dissolved	ug/L	MW-12	04/20/2020		24800.0000 *	100.0000
Iron, Dissolved	ug/L	MW-12	10/20/2020		19400.0000 *	100.0000
Iron, Dissolved	ug/L	MW-12	04/26/2021		27800.0000 *	100.0000
Iron, Dissolved	ug/L	MW-12	08/16/2021		29900.0000 *	100.0000
Iron, Dissolved	ug/L	MW-12	06/01/2022		25300.0000 *	100.0000
Iron, Dissolved	ug/L	MW-12	10/03/2022		9460.0000 *	100.0000
Iron, Dissolved	ug/L	MW-12	05/03/2023		10800.0000 *	100.0000
Iron, Dissolved	ug/L	MW-12	10/11/2023		7290.0000 *	100.0000
Specific Conductance	umhos/cm	MW-12	10/10/1996		1026.0000	1188.4824
Specific Conductance	umhos/cm	MW-12	01/21/1997		922.0000	1188.4824
Specific Conductance	umhos/cm	MW-12	04/17/1997		1010.0000	1188.4824
Specific Conductance	umhos/cm	MW-12	07/15/1997		1017.0000	1188.4824
Specific Conductance	umhos/cm	MW-12	10/04/1997		906.0000	1188.4824
Specific Conductance	umhos/cm	MW-12	04/22/1998		1044.0000	1188.4824
Specific Conductance	umhos/cm	MW-12	10/19/1998		1046.0000	1188.4824
Specific Conductance	umhos/cm	MW-12	04/30/1999		1102.0000	1188.4824
Specific Conductance	umhos/cm	MW-12	09/01/1999		1171.0000	1188.4824
Specific Conductance	umhos/cm	MW-12	04/12/2000		1087.0000	1188.4824
Specific Conductance	umhos/cm	MW-12	10/17/2000		1129.0000	1188.4824
Specific Conductance	umhos/cm	MW-12	04/25/2001		1223.0000 *	1188.4824
Specific Conductance	umhos/cm	MW-12	10/23/2001		1165.0000	1188.4824
Specific Conductance	umhos/cm	MW-12	04/28/2002		1040.0000	1188.4824
Specific Conductance	umhos/cm	MW-12	10/06/2002		1051.0000	1188.4824
Specific Conductance	umhos/cm	MW-12	04/03/2003		1319.0000 *	1188.4824
Specific Conductance	umhos/cm	MW-12	10/07/2003		671.0000	1188.4824
Specific Conductance	umhos/cm	MW-12	04/30/2004		1106.0000	1188.4824
Specific Conductance	umhos/cm	MW-12	10/12/2004		496.0000	1188.4824
Specific Conductance	umhos/cm	MW-12	04/26/2005		182.0000	1188.4824
Specific Conductance	umhos/cm	MW-12	10/11/2005		1571.0000 *	1188.4824
Specific Conductance	umhos/cm	MW-12	04/26/2006		1374.0000 *	1188.4824
Specific Conductance	umhos/cm	MW-12	10/05/2006		1369.0000 *	1188.4824
Specific Conductance	umhos/cm	MW-12	04/23/2007		1270.0000 *	1188.4824
Specific Conductance	umhos/cm	MW-12	10/09/2007		1451.0000 *	1188.4824
Specific Conductance	umhos/cm	MW-12	04/07/2008		1571.0000 *	1188.4824
Specific Conductance	umhos/cm	MW-12	10/14/2008		1377.0000 *	1188.4824
Specific Conductance	umhos/cm	MW-12	04/07/2009		1326.0000 *	1188.4824
Specific Conductance	umhos/cm	MW-12	10/05/2009		1371.0000 *	1188.4824
Specific Conductance	umhos/cm	MW-12	04/01/2010		1357.0000 *	1188.4824

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ND = Not Detected, Result = detection limit.

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

Constituent	Units	Well	Date		Result	Pred. Limit
Specific Conductance	umhos/cm	MW-12	10/01/2010		1399.0000 *	1188.4824
Specific Conductance	umhos/cm	MW-12	04/07/2011		1184.0000	1188.4824
Specific Conductance	umhos/cm	MW-12	10/27/2011		1205.0000 *	1188.4824
Specific Conductance	umhos/cm	MW-12	04/23/2012		1199.0000 *	1188.4824
Specific Conductance	umhos/cm	MW-12	10/23/2012		1518.0000 *	1188.4824
Specific Conductance	umhos/cm	MW-12	04/16/2013		1476.0000 *	1188.4824
Specific Conductance	umhos/cm	MW-12	10/28/2013		1523.0000 *	1188.4824
Specific Conductance	umhos/cm	MW-12	04/24/2014		1512.0000 *	1188.4824
Specific Conductance	umhos/cm	MW-12	10/06/2014		1547.0000 *	1188.4824
Specific Conductance	umhos/cm	MW-12	04/21/2015		1601.0000 *	1188.4824
Specific Conductance	umhos/cm	MW-12	10/05/2015		1637.0000 *	1188.4824
Specific Conductance	umhos/cm	MW-12	04/26/2016		1786.0000 *	1188.4824
Specific Conductance	umhos/cm	MW-12	10/05/2016		1706.0000 *	1188.4824
Specific Conductance	umhos/cm	MW-12	04/04/2017		1375.0000 *	1188.4824
Specific Conductance	umhos/cm	MW-12	10/10/2017		1287.0000 *	1188.4824
Specific Conductance	umhos/cm	MW-12	04/11/2018		1304.0000 *	1188.4824
Specific Conductance	umhos/cm	MW-12	10/30/2018		1556.0000 *	1188.4824
Specific Conductance	umhos/cm	MW-12	04/01/2019		1399.0000 *	1188.4824
Specific Conductance	umhos/cm	MW-12	10/08/2019		1499.0000 *	1188.4824
Specific Conductance	umhos/cm	MW-12	04/20/2020		1386.0000 *	1188.4824
Specific Conductance	umhos/cm	MW-12	10/20/2020		1684.0000 *	1188.4824
Specific Conductance	umhos/cm	MW-12	04/26/2021		1637.0000 *	1188.4824
Specific Conductance	umhos/cm	MW-12	08/16/2021		1754.0000 *	1188.4824
Specific Conductance	umhos/cm	MW-12	06/01/2022		1371.0000 *	1188.4824
Specific Conductance	umhos/cm	MW-12	10/03/2022		1494.0000 *	1188.4824
Specific Conductance	umhos/cm	MW-12	05/03/2023		1481.0000 *	1188.4824
Specific Conductance	umhos/cm	MW-12	10/11/2023		1422.0000 *	1188.4824
Chemical Oxygen Demand	mg/L	MW-13	07/12/1996		63.0000 *	21.2000
Chemical Oxygen Demand	mg/L	MW-13	10/10/1996	ND	5.0000	21.2000
Chemical Oxygen Demand	mg/L	MW-13	01/21/1997		7.5000	21.2000
Chemical Oxygen Demand	mg/L	MW-13	04/17/1997	ND	5.0000	21.2000
Chemical Oxygen Demand	mg/L	MW-13	10/04/1997	ND	5.0000	21.2000
Chemical Oxygen Demand	mg/L	MW-13	04/22/1998	ND	5.0000	21.2000
Chemical Oxygen Demand	mg/L	MW-13	10/19/1998	ND	5.0000	21.2000
Chemical Oxygen Demand	mg/L	MW-13	04/30/1999	ND	5.0000	21.2000
Chemical Oxygen Demand	mg/L	MW-13	09/01/1999	ND	5.0000	21.2000
Chemical Oxygen Demand	mg/L	MW-13	04/12/2000		22.0000 *	21.2000
Chemical Oxygen Demand	mg/L	MW-13	10/17/2000	ND	5.0000	21.2000
Chemical Oxygen Demand	mg/L	MW-13	04/25/2001		6.3000	21.2000
Chemical Oxygen Demand	mg/L	MW-13	10/23/2001	ND	5.0000	21.2000
Chemical Oxygen Demand	mg/L	MW-13	04/28/2002		8.2000	21.2000
Chemical Oxygen Demand	mg/L	MW-13	10/06/2002		8.4000	21.2000
Chemical Oxygen Demand	mg/L	MW-13	04/03/2003		10.0000	21.2000
Chemical Oxygen Demand	mg/L	MW-13	10/07/2003	ND	5.0000	21.2000
Chemical Oxygen Demand	mg/L	MW-13	04/30/2004		12.0000	21.2000
Chemical Oxygen Demand	mg/L	MW-13	10/12/2004	ND	5.0000	21.2000
Chemical Oxygen Demand	mg/L	MW-13	04/26/2005	ND	5.0000	21.2000
Chemical Oxygen Demand	mg/L	MW-13	10/11/2005	ND	5.0000	21.2000
Chemical Oxygen Demand	mg/L	MW-13	04/26/2006		6.3000	21.2000
Chemical Oxygen Demand	mg/L	MW-13	10/05/2006		13.1000	21.2000
Chemical Oxygen Demand	mg/L	MW-13	04/23/2007		9.7000	21.2000
Chemical Oxygen Demand	mg/L	MW-13	10/09/2007	ND	5.0000	21.2000
Chemical Oxygen Demand	mg/L	MW-13	04/07/2008	ND	5.0000	21.2000
Chemical Oxygen Demand	mg/L	MW-13	10/14/2008		5.5000	21.2000
Chemical Oxygen Demand	mg/L	MW-13	04/07/2009		8.8000	21.2000
Chemical Oxygen Demand	mg/L	MW-13	10/05/2009	ND	5.0000	21.2000
Chemical Oxygen Demand	mg/L	MW-13	04/01/2010		9.6000	21.2000
Chemical Oxygen Demand	mg/L	MW-13	10/01/2010		17.9000	21.2000
Chemical Oxygen Demand	mg/L	MW-13	04/07/2011		12.1000	21.2000
Chemical Oxygen Demand	mg/L	MW-13	10/27/2011		14.3000	21.2000
Chemical Oxygen Demand	mg/L	MW-13	04/23/2012	ND	5.0000	21.2000
Chemical Oxygen Demand	mg/L	MW-13	10/23/2012	ND	5.0000	21.2000
Chemical Oxygen Demand	mg/L	MW-13	04/16/2013	ND	5.0000	21.2000
Chemical Oxygen Demand	mg/L	MW-13	10/28/2013		15.4000	21.2000
Chemical Oxygen Demand	mg/L	MW-13	04/24/2014	ND	5.0000	21.2000
Chemical Oxygen Demand	mg/L	MW-13	10/06/2014		8.3000	21.2000
Chemical Oxygen Demand	mg/L	MW-13	04/21/2015		10.1000	21.2000
Chemical Oxygen Demand	mg/L	MW-13	10/05/2015		7.9400	21.2000
Chemical Oxygen Demand	mg/L	MW-13	04/26/2016		15.3000	21.2000
Chemical Oxygen Demand	mg/L	MW-13	10/05/2016		10.6000	21.2000
Chemical Oxygen Demand	mg/L	MW-13	04/04/2017		5.2300	21.2000

* - Significantly increased over background.

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

*** - Manual exclusion.

ND = Not Detected, Result = detection limit.

Table 8

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

Constituent	Units	Well	Date		Result	Pred. Limit
Chemical Oxygen Demand	mg/L	MW-13	10/10/2017		6.5100	21.2000
Chemical Oxygen Demand	mg/L	MW-13	04/11/2018		17.2000	21.2000
Chemical Oxygen Demand	mg/L	MW-13	10/30/2018		18.6000	21.2000
Chemical Oxygen Demand	mg/L	MW-13	04/01/2019		32.5000 *	21.2000
Chemical Oxygen Demand	mg/L	MW-13	10/08/2019		60.2000 *	21.2000
Chemical Oxygen Demand	mg/L	MW-13	04/20/2020		26.7000 *	21.2000
Chemical Oxygen Demand	mg/L	MW-13	10/20/2020		8.5600	21.2000
Chemical Oxygen Demand	mg/L	MW-13	04/26/2021		22.5000 *	21.2000
Chemical Oxygen Demand	mg/L	MW-13	08/16/2021		12.5000	21.2000
Chemical Oxygen Demand	mg/L	MW-13	06/01/2022		20.9000	21.2000
Chemical Oxygen Demand	mg/L	MW-13	10/03/2022		13.5000	21.2000
Chemical Oxygen Demand	mg/L	MW-13	05/03/2023		23.5000 *	21.2000
Chemical Oxygen Demand	mg/L	MW-13	10/11/2023		20.3000	21.2000
Chloride	mg/L	MW-13	07/12/1996		12.0000 *	7.3000
Chloride	mg/L	MW-13	10/10/1996		13.0000 *	7.3000
Chloride	mg/L	MW-13	01/21/1997		14.0000 *	7.3000
Chloride	mg/L	MW-13	04/17/1997		18.0000 *	7.3000
Chloride	mg/L	MW-13	10/04/1997		18.0000 *	7.3000
Chloride	mg/L	MW-13	04/22/1998		15.6000 *	7.3000
Chloride	mg/L	MW-13	10/19/1998		18.0000 *	7.3000
Chloride	mg/L	MW-13	04/30/1999		17.0000 *	7.3000
Chloride	mg/L	MW-13	09/01/1999		18.0000 *	7.3000
Chloride	mg/L	MW-13	04/12/2000		17.5000 *	7.3000
Chloride	mg/L	MW-13	10/17/2000		19.9000 *	7.3000
Chloride	mg/L	MW-13	04/25/2001		15.1000 *	7.3000
Chloride	mg/L	MW-13	10/23/2001		16.7000 *	7.3000
Chloride	mg/L	MW-13	04/28/2002		16.6000 *	7.3000
Chloride	mg/L	MW-13	10/06/2002		16.5000 *	7.3000
Chloride	mg/L	MW-13	04/03/2003		24.8000 *	7.3000
Chloride	mg/L	MW-13	10/07/2003		19.7000 *	7.3000
Chloride	mg/L	MW-13	04/30/2004		19.3000 *	7.3000
Chloride	mg/L	MW-13	10/12/2004		18.4000 *	7.3000
Chloride	mg/L	MW-13	04/26/2005		11.6000 *	7.3000
Chloride	mg/L	MW-13	10/11/2005		19.0000 *	7.3000
Chloride	mg/L	MW-13	04/26/2006		18.8000 *	7.3000
Chloride	mg/L	MW-13	10/05/2006		18.2000 *	7.3000
Chloride	mg/L	MW-13	04/23/2007		17.5000 *	7.3000
Chloride	mg/L	MW-13	10/09/2007		20.1000 *	7.3000
Chloride	mg/L	MW-13	04/07/2008		20.0000 *	7.3000
Chloride	mg/L	MW-13	10/14/2008		19.3000 *	7.3000
Chloride	mg/L	MW-13	04/07/2009		18.1000 *	7.3000
Chloride	mg/L	MW-13	10/05/2009		19.9000 *	7.3000
Chloride	mg/L	MW-13	04/01/2010		73.3000 *	7.3000
Chloride	mg/L	MW-13	10/01/2010		51.8000 *	7.3000
Chloride	mg/L	MW-13	04/07/2011		43.1000 *	7.3000
Chloride	mg/L	MW-13	10/27/2011		27.5000 *	7.3000
Chloride	mg/L	MW-13	04/23/2012		15.4000 *	7.3000
Chloride	mg/L	MW-13	10/23/2012		18.3000 *	7.3000
Chloride	mg/L	MW-13	04/16/2013		28.5000 *	7.3000
Chloride	mg/L	MW-13	10/28/2013		60.7000 *	7.3000
Chloride	mg/L	MW-13	04/24/2014		21.6000 *	7.3000
Chloride	mg/L	MW-13	10/06/2014		77.7000 *	7.3000
Chloride	mg/L	MW-13	04/21/2015		143.0000 *	7.3000
Chloride	mg/L	MW-13	10/05/2015		75.7000 *	7.3000
Chloride	mg/L	MW-13	04/26/2016		93.2000 *	7.3000
Chloride	mg/L	MW-13	10/05/2016		73.8000 *	7.3000
Chloride	mg/L	MW-13	04/04/2017		130.0000 *	7.3000
Chloride	mg/L	MW-13	10/10/2017		62.8000 *	7.3000
Chloride	mg/L	MW-13	04/11/2018		124.0000 *	7.3000
Chloride	mg/L	MW-13	10/30/2018		132.0000 *	7.3000
Chloride	mg/L	MW-13	04/01/2019		147.0000 *	7.3000
Chloride	mg/L	MW-13	10/08/2019		179.0000 *	7.3000
Chloride	mg/L	MW-13	04/20/2020		116.0000 *	7.3000
Chloride	mg/L	MW-13	10/20/2020		32.5000 *	7.3000
Chloride	mg/L	MW-13	04/26/2021		85.2000 *	7.3000
Chloride	mg/L	MW-13	08/16/2021		33.1000 *	7.3000
Chloride	mg/L	MW-13	06/01/2022		24.7000 *	7.3000
Chloride	mg/L	MW-13	10/03/2022		21.7000 *	7.3000
Chloride	mg/L	MW-13	05/03/2023		73.0000 *	7.3000
Chloride	mg/L	MW-13	10/11/2023		33.1000 *	7.3000
Iron, Dissolved	ug/L	MW-13	07/12/1996		900.0000 *	100.0000

* - Significantly increased over background.

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

*** - Manual exclusion.

ND = Not Detected, Result = detection limit.

Table 8

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

Constituent	Units	Well	Date		Result	Pred. Limit
Iron, Dissolved	ug/L	MW-13	10/10/1996		3400.0000 *	100.0000
Iron, Dissolved	ug/L	MW-13	01/21/1997		3600.0000 *	100.0000
Iron, Dissolved	ug/L	MW-13	04/17/1997	ND	100.0000	100.0000
Iron, Dissolved	ug/L	MW-13	10/04/1997		490.0000 *	100.0000
Iron, Dissolved	ug/L	MW-13	04/22/1998		200.0000 *	100.0000
Iron, Dissolved	ug/L	MW-13	10/19/1998		50.0000	100.0000
Iron, Dissolved	ug/L	MW-13	04/30/1999		50.0000	100.0000
Iron, Dissolved	ug/L	MW-13	09/01/1999		720.0000 *	100.0000
Iron, Dissolved	ug/L	MW-13	04/12/2000		1050.0000 *	100.0000
Iron, Dissolved	ug/L	MW-13	10/17/2000	ND	100.0000	100.0000
Iron, Dissolved	ug/L	MW-13	04/25/2001		160.0000 *	100.0000
Iron, Dissolved	ug/L	MW-13	10/23/2001	ND	100.0000	100.0000
Iron, Dissolved	ug/L	MW-13	04/28/2002		710.0000 *	100.0000
Iron, Dissolved	ug/L	MW-13	10/06/2002		850.0000 *	100.0000
Iron, Dissolved	ug/L	MW-13	04/03/2003	ND	100.0000	100.0000
Iron, Dissolved	ug/L	MW-13	10/07/2003		880.0000 *	100.0000
Iron, Dissolved	ug/L	MW-13	04/30/2004	ND	100.0000	100.0000
Iron, Dissolved	ug/L	MW-13	10/12/2004	ND	100.0000	100.0000
Iron, Dissolved	ug/L	MW-13	04/26/2005		150.0000 *	100.0000
Iron, Dissolved	ug/L	MW-13	10/11/2005		340.0000 *	100.0000
Iron, Dissolved	ug/L	MW-13	04/26/2006		560.0000 *	100.0000
Iron, Dissolved	ug/L	MW-13	10/05/2006		934.0000 *	100.0000
Iron, Dissolved	ug/L	MW-13	04/23/2007		178.0000 *	100.0000
Iron, Dissolved	ug/L	MW-13	10/09/2007		177.0000 *	100.0000
Iron, Dissolved	ug/L	MW-13	04/07/2008	ND	100.0000	100.0000
Iron, Dissolved	ug/L	MW-13	10/14/2008		278.0000 *	100.0000
Iron, Dissolved	ug/L	MW-13	04/07/2009		106.0000 *	100.0000
Iron, Dissolved	ug/L	MW-13	10/05/2009		717.0000 *	100.0000
Iron, Dissolved	ug/L	MW-13	04/01/2010	ND	100.0000	100.0000
Iron, Dissolved	ug/L	MW-13	10/01/2010		1840.0000 *	100.0000
Iron, Dissolved	ug/L	MW-13	04/07/2011		1660.0000 *	100.0000
Iron, Dissolved	ug/L	MW-13	10/27/2011		211.0000 *	100.0000
Iron, Dissolved	ug/L	MW-13	04/23/2012		121.0000 *	100.0000
Iron, Dissolved	ug/L	MW-13	10/23/2012		241.0000 *	100.0000
Iron, Dissolved	ug/L	MW-13	04/16/2013	ND	100.0000	100.0000
Iron, Dissolved	ug/L	MW-13	10/28/2013		172.0000 *	100.0000
Iron, Dissolved	ug/L	MW-13	04/24/2014		153.0000 *	100.0000
Iron, Dissolved	ug/L	MW-13	10/06/2014	ND	100.0000	100.0000
Iron, Dissolved	ug/L	MW-13	04/21/2015	ND	100.0000	100.0000
Iron, Dissolved	ug/L	MW-13	10/05/2015	ND	100.0000	100.0000
Iron, Dissolved	ug/L	MW-13	04/26/2016	ND	100.0000	100.0000
Iron, Dissolved	ug/L	MW-13	10/05/2016	ND	100.0000	100.0000
Iron, Dissolved	ug/L	MW-13	04/04/2017	ND	500.0000	100.0000
Iron, Dissolved	ug/L	MW-13	10/10/2017		663.0000 *	100.0000
Iron, Dissolved	ug/L	MW-13	04/11/2018	ND	500.0000	100.0000
Iron, Dissolved	ug/L	MW-13	10/30/2018	ND	500.0000	100.0000
Iron, Dissolved	ug/L	MW-13	04/01/2019	ND	500.0000	100.0000
Iron, Dissolved	ug/L	MW-13	10/08/2019		1780.0000 *	100.0000
Iron, Dissolved	ug/L	MW-13	04/20/2020		1370.0000 *	100.0000
Iron, Dissolved	ug/L	MW-13	10/20/2020	ND	500.0000	100.0000
Iron, Dissolved	ug/L	MW-13	04/26/2021	ND	500.0000	100.0000
Iron, Dissolved	ug/L	MW-13	08/16/2021		3430.0000 *	100.0000
Iron, Dissolved	ug/L	MW-13	06/01/2022		1710.0000 *	100.0000
Iron, Dissolved	ug/L	MW-13	10/03/2022		1740.0000 *	100.0000
Iron, Dissolved	ug/L	MW-13	05/03/2023		1200.0000 *	100.0000
Iron, Dissolved	ug/L	MW-13	10/11/2023		747.0000 *	100.0000
Specific Conductance	umhos/cm	MW-13	07/12/1996		390.0000	1188.4824
Specific Conductance	umhos/cm	MW-13	10/10/1996		475.0000	1188.4824
Specific Conductance	umhos/cm	MW-13	01/21/1997		479.0000	1188.4824
Specific Conductance	umhos/cm	MW-13	04/17/1997		645.0000	1188.4824
Specific Conductance	umhos/cm	MW-13	10/04/1997		548.0000	1188.4824
Specific Conductance	umhos/cm	MW-13	04/22/1998		584.0000	1188.4824
Specific Conductance	umhos/cm	MW-13	10/19/1998		525.0000	1188.4824
Specific Conductance	umhos/cm	MW-13	04/30/1999		605.0000	1188.4824
Specific Conductance	umhos/cm	MW-13	09/01/1999		558.0000	1188.4824
Specific Conductance	umhos/cm	MW-13	04/12/2000		517.0000	1188.4824
Specific Conductance	umhos/cm	MW-13	10/17/2000		536.0000	1188.4824
Specific Conductance	umhos/cm	MW-13	04/25/2001		648.0000	1188.4824
Specific Conductance	umhos/cm	MW-13	10/23/2001		530.0000	1188.4824
Specific Conductance	umhos/cm	MW-13	04/28/2002		423.0000	1188.4824
Specific Conductance	umhos/cm	MW-13	10/06/2002		499.0000	1188.4824

* - Significantly increased over background.

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

*** - Manual exclusion.

ND = Not Detected, Result = detection limit.

Table 8

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

Constituent	Units	Well	Date		Result	Pred. Limit
Specific Conductance	umhos/cm	MW-13	04/03/2003		930.0000	1188.4824
Specific Conductance	umhos/cm	MW-13	10/07/2003		646.0000	1188.4824
Specific Conductance	umhos/cm	MW-13	04/30/2004		792.0000	1188.4824
Specific Conductance	umhos/cm	MW-13	10/12/2004		346.0000	1188.4824
Specific Conductance	umhos/cm	MW-13	04/26/2005		608.0000	1188.4824
Specific Conductance	umhos/cm	MW-13	10/11/2005		764.0000	1188.4824
Specific Conductance	umhos/cm	MW-13	04/26/2006		641.0000	1188.4824
Specific Conductance	umhos/cm	MW-13	10/05/2006		687.0000	1188.4824
Specific Conductance	umhos/cm	MW-13	04/23/2007		668.0000	1188.4824
Specific Conductance	umhos/cm	MW-13	10/09/2007		868.0000	1188.4824
Specific Conductance	umhos/cm	MW-13	04/07/2008		804.0000	1188.4824
Specific Conductance	umhos/cm	MW-13	10/14/2008		1057.0000	1188.4824
Specific Conductance	umhos/cm	MW-13	04/07/2009		747.0000	1188.4824
Specific Conductance	umhos/cm	MW-13	10/05/2009		759.0000	1188.4824
Specific Conductance	umhos/cm	MW-13	04/01/2010		1205.0000	* 1188.4824
Specific Conductance	umhos/cm	MW-13	10/01/2010		1329.0000	* 1188.4824
Specific Conductance	umhos/cm	MW-13	04/07/2011		1115.0000	1188.4824
Specific Conductance	umhos/cm	MW-13	10/27/2011		1018.0000	1188.4824
Specific Conductance	umhos/cm	MW-13	04/23/2012		1084.0000	1188.4824
Specific Conductance	umhos/cm	MW-13	10/23/2012		806.0000	1188.4824
Specific Conductance	umhos/cm	MW-13	04/16/2013		1336.0000	* 1188.4824
Specific Conductance	umhos/cm	MW-13	10/28/2013		1421.0000	* 1188.4824
Specific Conductance	umhos/cm	MW-13	04/24/2014		847.0000	1188.4824
Specific Conductance	umhos/cm	MW-13	10/06/2014		1590.0000	* 1188.4824
Specific Conductance	umhos/cm	MW-13	04/21/2015		1583.0000	* 1188.4824
Specific Conductance	umhos/cm	MW-13	10/05/2015		1204.0000	* 1188.4824
Specific Conductance	umhos/cm	MW-13	04/26/2016		1195.0000	* 1188.4824
Specific Conductance	umhos/cm	MW-13	10/05/2016		1159.0000	1188.4824
Specific Conductance	umhos/cm	MW-13	04/04/2017		1341.0000	* 1188.4824
Specific Conductance	umhos/cm	MW-13	10/10/2017		1193.0000	* 1188.4824
Specific Conductance	umhos/cm	MW-13	04/11/2018		1332.0000	* 1188.4824
Specific Conductance	umhos/cm	MW-13	10/30/2018		1578.0000	* 1188.4824
Specific Conductance	umhos/cm	MW-13	04/01/2019		1590.0000	* 1188.4824
Specific Conductance	umhos/cm	MW-13	10/08/2019		1854.0000	* 1188.4824
Specific Conductance	umhos/cm	MW-13	04/20/2020		1680.0000	* 1188.4824
Specific Conductance	umhos/cm	MW-13	10/20/2020		990.0000	1188.4824
Specific Conductance	umhos/cm	MW-13	04/26/2021		1595.0000	* 1188.4824
Specific Conductance	umhos/cm	MW-13	08/16/2021		1209.0000	* 1188.4824
Specific Conductance	umhos/cm	MW-13	06/01/2022		938.0000	1188.4824
Specific Conductance	umhos/cm	MW-13	10/03/2022		917.0000	1188.4824
Specific Conductance	umhos/cm	MW-13	05/03/2023		1446.0000	* 1188.4824
Specific Conductance	umhos/cm	MW-13	10/11/2023		990.0000	1188.4824
Chemical Oxygen Demand	mg/L	MW-14	07/12/1996		24.0000	* 21.2000
Chemical Oxygen Demand	mg/L	MW-14	10/10/1996	ND	5.0000	21.2000
Chemical Oxygen Demand	mg/L	MW-14	01/21/1997	ND	5.0000	21.2000
Chemical Oxygen Demand	mg/L	MW-14	04/17/1997	ND	5.0000	21.2000
Chemical Oxygen Demand	mg/L	MW-14	10/04/1997	ND	5.0000	21.2000
Chemical Oxygen Demand	mg/L	MW-14	04/22/1998	ND	5.0000	21.2000
Chemical Oxygen Demand	mg/L	MW-14	10/19/1998	ND	5.0000	21.2000
Chemical Oxygen Demand	mg/L	MW-14	04/30/1999	ND	5.0000	21.2000
Chemical Oxygen Demand	mg/L	MW-14	09/01/1999	ND	5.0000	21.2000
Chemical Oxygen Demand	mg/L	MW-14	04/12/2000	ND	5.0000	21.2000
Chemical Oxygen Demand	mg/L	MW-14	10/17/2000	ND	5.0000	21.2000
Chemical Oxygen Demand	mg/L	MW-14	04/25/2001	ND	5.0000	21.2000
Chemical Oxygen Demand	mg/L	MW-14	10/23/2001	ND	5.0000	21.2000
Chemical Oxygen Demand	mg/L	MW-14	04/28/2002	ND	5.0000	21.2000
Chemical Oxygen Demand	mg/L	MW-14	10/06/2002		15.0000	21.2000
Chemical Oxygen Demand	mg/L	MW-14	04/03/2003		7.7000	21.2000
Chemical Oxygen Demand	mg/L	MW-14	10/07/2003		10.0000	21.2000
Chemical Oxygen Demand	mg/L	MW-14	04/30/2004	ND	5.0000	21.2000
Chemical Oxygen Demand	mg/L	MW-14	10/12/2004		6.0000	21.2000
Chemical Oxygen Demand	mg/L	MW-14	04/26/2005		5.3000	21.2000
Chemical Oxygen Demand	mg/L	MW-14	10/11/2005	ND	5.0000	21.2000
Chemical Oxygen Demand	mg/L	MW-14	04/26/2006	ND	5.0000	21.2000
Chemical Oxygen Demand	mg/L	MW-14	10/05/2006		12.0000	21.2000
Chemical Oxygen Demand	mg/L	MW-14	04/23/2007	ND	5.0000	21.2000
Chemical Oxygen Demand	mg/L	MW-14	10/09/2007		5.8000	21.2000
Chemical Oxygen Demand	mg/L	MW-14	04/07/2008	ND	5.0000	21.2000
Chemical Oxygen Demand	mg/L	MW-14	10/14/2008		10.0000	21.2000
Chemical Oxygen Demand	mg/L	MW-14	04/07/2009		10.0000	21.2000
Chemical Oxygen Demand	mg/L	MW-14	10/05/2009	ND	5.0000	21.2000

* - Significantly increased over background.

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

*** - Manual exclusion.

ND = Not Detected, Result = detection limit.

Table 8

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

Constituent	Units	Well	Date		Result	Pred. Limit
Chemical Oxygen Demand	mg/L	MW-14	04/01/2010	ND	5.0000	21.2000
Chemical Oxygen Demand	mg/L	MW-14	10/01/2010	ND	5.0000	21.2000
Chemical Oxygen Demand	mg/L	MW-14	04/07/2011		10.5000	21.2000
Chemical Oxygen Demand	mg/L	MW-14	10/27/2011		13.3000	21.2000
Chemical Oxygen Demand	mg/L	MW-14	04/23/2012	ND	5.0000	21.2000
Chemical Oxygen Demand	mg/L	MW-14	10/23/2012		7.7000	21.2000
Chemical Oxygen Demand	mg/L	MW-14	04/16/2013	ND	5.0000	21.2000
Chemical Oxygen Demand	mg/L	MW-14	10/28/2013		22.8000 *	21.2000
Chemical Oxygen Demand	mg/L	MW-14	04/24/2014		5.1000	21.2000
Chemical Oxygen Demand	mg/L	MW-14	10/06/2014		7.7000	21.2000
Chemical Oxygen Demand	mg/L	MW-14	04/21/2015	ND	5.0000	21.2000
Chemical Oxygen Demand	mg/L	MW-14	10/05/2015		11.3000	21.2000
Chemical Oxygen Demand	mg/L	MW-14	04/26/2016		6.4700	21.2000
Chemical Oxygen Demand	mg/L	MW-14	10/05/2016		5.6900	21.2000
Chemical Oxygen Demand	mg/L	MW-14	04/04/2017	ND	5.0000	21.2000
Chemical Oxygen Demand	mg/L	MW-14	10/10/2017	ND	5.0000	21.2000
Chemical Oxygen Demand	mg/L	MW-14	04/11/2018		6.6000	21.2000
Chemical Oxygen Demand	mg/L	MW-14	10/30/2018	ND	5.0000	21.2000
Chemical Oxygen Demand	mg/L	MW-14	04/01/2019		12.8000	21.2000
Chemical Oxygen Demand	mg/L	MW-14	10/08/2019	ND	5.0000	21.2000
Chemical Oxygen Demand	mg/L	MW-14	04/20/2020		6.2400	21.2000
Chemical Oxygen Demand	mg/L	MW-14	10/20/2020	ND	5.0000	21.2000
Chemical Oxygen Demand	mg/L	MW-14	04/26/2021		15.5000	21.2000
Chemical Oxygen Demand	mg/L	MW-14	08/16/2021		12.5000	21.2000
Chemical Oxygen Demand	mg/L	MW-14	06/01/2022		13.9000	21.2000
Chemical Oxygen Demand	mg/L	MW-14	05/03/2023		29.6000 *	21.2000
Chemical Oxygen Demand	mg/L	MW-14	10/11/2023		42.6000 *	21.2000
Chloride	mg/L	MW-14	07/12/1996		12.0000 *	7.3000
Chloride	mg/L	MW-14	10/10/1996		14.0000 *	7.3000
Chloride	mg/L	MW-14	01/21/1997		13.0000 *	7.3000
Chloride	mg/L	MW-14	04/17/1997		17.0000 *	7.3000
Chloride	mg/L	MW-14	10/04/1997		15.0000 *	7.3000
Chloride	mg/L	MW-14	04/22/1998		18.5000 *	7.3000
Chloride	mg/L	MW-14	10/19/1998		19.0000 *	7.3000
Chloride	mg/L	MW-14	04/30/1999		20.0000 *	7.3000
Chloride	mg/L	MW-14	09/01/1999		18.0000 *	7.3000
Chloride	mg/L	MW-14	04/12/2000		17.7000 *	7.3000
Chloride	mg/L	MW-14	10/17/2000		17.0000 *	7.3000
Chloride	mg/L	MW-14	04/25/2001		16.8000 *	7.3000
Chloride	mg/L	MW-14	10/23/2001		22.6000 *	7.3000
Chloride	mg/L	MW-14	04/28/2002		27.9000 *	7.3000
Chloride	mg/L	MW-14	10/06/2002		23.1000 *	7.3000
Chloride	mg/L	MW-14	04/03/2003		30.9000 *	7.3000
Chloride	mg/L	MW-14	10/07/2003		24.8000 *	7.3000
Chloride	mg/L	MW-14	04/30/2004		43.4000 *	7.3000
Chloride	mg/L	MW-14	10/12/2004		80.6000 *	7.3000
Chloride	mg/L	MW-14	04/26/2005		53.3000 *	7.3000
Chloride	mg/L	MW-14	10/11/2005		43.6000 *	7.3000
Chloride	mg/L	MW-14	04/26/2006		38.1000 *	7.3000
Chloride	mg/L	MW-14	10/05/2006		38.4000 *	7.3000
Chloride	mg/L	MW-14	04/23/2007		39.9000 *	7.3000
Chloride	mg/L	MW-14	10/09/2007		43.9000 *	7.3000
Chloride	mg/L	MW-14	04/07/2008		45.1000 *	7.3000
Chloride	mg/L	MW-14	10/14/2008		40.5000 *	7.3000
Chloride	mg/L	MW-14	04/07/2009		37.3000 *	7.3000
Chloride	mg/L	MW-14	10/05/2009		44.7000 *	7.3000
Chloride	mg/L	MW-14	04/01/2010		43.6000 *	7.3000
Chloride	mg/L	MW-14	10/01/2010		53.6000 *	7.3000
Chloride	mg/L	MW-14	04/07/2011		49.7000 *	7.3000
Chloride	mg/L	MW-14	10/27/2011		35.0000 *	7.3000
Chloride	mg/L	MW-14	04/23/2012		33.5000 *	7.3000
Chloride	mg/L	MW-14	10/23/2012		29.4000 *	7.3000
Chloride	mg/L	MW-14	04/16/2013		16.4000 *	7.3000
Chloride	mg/L	MW-14	10/28/2013		66.1000 *	7.3000
Chloride	mg/L	MW-14	04/24/2014		62.3000 *	7.3000
Chloride	mg/L	MW-14	10/06/2014		61.6000 *	7.3000
Chloride	mg/L	MW-14	04/21/2015		78.8000 *	7.3000
Chloride	mg/L	MW-14	10/05/2015		62.0000 *	7.3000
Chloride	mg/L	MW-14	04/26/2016		26.4000 *	7.3000
Chloride	mg/L	MW-14	10/05/2016		38.1000 *	7.3000
Chloride	mg/L	MW-14	04/04/2017		59.0000 *	7.3000

* - Significantly increased over background.

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

*** - Manual exclusion.

ND = Not Detected, Result = detection limit.

Table 8

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

Constituent	Units	Well	Date		Result	Pred. Limit
Chloride	mg/L	MW-14	10/10/2017		53.2000 *	7.3000
Chloride	mg/L	MW-14	04/11/2018		48.2000 *	7.3000
Chloride	mg/L	MW-14	10/30/2018		20.5000 *	7.3000
Chloride	mg/L	MW-14	04/01/2019		36.5000 *	7.3000
Chloride	mg/L	MW-14	10/08/2019		30.5000 *	7.3000
Chloride	mg/L	MW-14	04/20/2020		41.6000 *	7.3000
Chloride	mg/L	MW-14	10/20/2020		50.2000 *	7.3000
Chloride	mg/L	MW-14	04/26/2021		51.0000 *	7.3000
Chloride	mg/L	MW-14	08/16/2021		50.3000 *	7.3000
Chloride	mg/L	MW-14	06/01/2022		50.0000 *	7.3000
Chloride	mg/L	MW-14	05/03/2023		58.8000 *	7.3000
Chloride	mg/L	MW-14	10/11/2023		109.0000 *	7.3000
Specific Conductance	umhos/cm	MW-14	07/12/1996		528.0000	1188.4824
Specific Conductance	umhos/cm	MW-14	10/10/1996		690.0000	1188.4824
Specific Conductance	umhos/cm	MW-14	01/21/1997		582.0000	1188.4824
Specific Conductance	umhos/cm	MW-14	04/17/1997		698.0000	1188.4824
Specific Conductance	umhos/cm	MW-14	10/04/1997		682.0000	1188.4824
Specific Conductance	umhos/cm	MW-14	04/22/1998		764.0000	1188.4824
Specific Conductance	umhos/cm	MW-14	10/19/1998		831.0000	1188.4824
Specific Conductance	umhos/cm	MW-14	04/30/1999		913.0000	1188.4824
Specific Conductance	umhos/cm	MW-14	09/01/1999		900.0000	1188.4824
Specific Conductance	umhos/cm	MW-14	04/12/2000		914.0000	1188.4824
Specific Conductance	umhos/cm	MW-14	10/17/2000		808.0000	1188.4824
Specific Conductance	umhos/cm	MW-14	04/25/2001		941.0000	1188.4824
Specific Conductance	umhos/cm	MW-14	10/23/2001		889.0000	1188.4824
Specific Conductance	umhos/cm	MW-14	04/28/2002		742.0000	1188.4824
Specific Conductance	umhos/cm	MW-14	10/06/2002		757.0000	1188.4824
Specific Conductance	umhos/cm	MW-14	04/03/2003		930.0000	1188.4824
Specific Conductance	umhos/cm	MW-14	10/07/2003		1050.0000	1188.4824
Specific Conductance	umhos/cm	MW-14	04/30/2004		930.0000	1188.4824
Specific Conductance	umhos/cm	MW-14	10/12/2004		419.0000	1188.4824
Specific Conductance	umhos/cm	MW-14	04/26/2005		286.0000	1188.4824
Specific Conductance	umhos/cm	MW-14	10/11/2005		1237.0000 *	1188.4824
Specific Conductance	umhos/cm	MW-14	04/26/2006		1055.0000	1188.4824
Specific Conductance	umhos/cm	MW-14	10/05/2006		1145.0000	1188.4824
Specific Conductance	umhos/cm	MW-14	04/23/2007		1146.0000	1188.4824
Specific Conductance	umhos/cm	MW-14	10/09/2007		1211.0000 *	1188.4824
Specific Conductance	umhos/cm	MW-14	04/07/2008		1397.0000 *	1188.4824
Specific Conductance	umhos/cm	MW-14	10/14/2008		1254.0000 *	1188.4824
Specific Conductance	umhos/cm	MW-14	04/07/2009		1282.0000 *	1188.4824
Specific Conductance	umhos/cm	MW-14	10/05/2009		1266.0000 *	1188.4824
Specific Conductance	umhos/cm	MW-14	04/01/2010		1246.0000 *	1188.4824
Specific Conductance	umhos/cm	MW-14	10/01/2010		1279.0000 *	1188.4824
Specific Conductance	umhos/cm	MW-14	04/07/2011		1179.0000	1188.4824
Specific Conductance	umhos/cm	MW-14	10/27/2011		1158.0000	1188.4824
Specific Conductance	umhos/cm	MW-14	04/23/2012		1177.0000	1188.4824
Specific Conductance	umhos/cm	MW-14	10/23/2012		1383.0000 *	1188.4824
Specific Conductance	umhos/cm	MW-14	04/16/2013		1184.0000	1188.4824
Specific Conductance	umhos/cm	MW-14	10/28/2013		1487.0000 *	1188.4824
Specific Conductance	umhos/cm	MW-14	04/24/2014		1403.0000 *	1188.4824
Specific Conductance	umhos/cm	MW-14	10/06/2014		1443.0000 *	1188.4824
Specific Conductance	umhos/cm	MW-14	04/21/2015		1431.0000 *	1188.4824
Specific Conductance	umhos/cm	MW-14	10/05/2015		1423.0000 *	1188.4824
Specific Conductance	umhos/cm	MW-14	04/26/2016		1314.0000 *	1188.4824
Specific Conductance	umhos/cm	MW-14	10/05/2016		1377.0000 *	1188.4824
Specific Conductance	umhos/cm	MW-14	04/04/2017		1272.0000 *	1188.4824
Specific Conductance	umhos/cm	MW-14	10/10/2017		1238.0000 *	1188.4824
Specific Conductance	umhos/cm	MW-14	04/11/2018		1227.0000 *	1188.4824
Specific Conductance	umhos/cm	MW-14	10/30/2018		1317.0000 *	1188.4824
Specific Conductance	umhos/cm	MW-14	04/01/2019		1328.0000 *	1188.4824
Specific Conductance	umhos/cm	MW-14	10/08/2019		1338.0000 *	1188.4824
Specific Conductance	umhos/cm	MW-14	04/20/2020		1541.0000 *	1188.4824
Specific Conductance	umhos/cm	MW-14	10/20/2020		1542.0000 *	1188.4824
Specific Conductance	umhos/cm	MW-14	04/26/2021		1570.0000 *	1188.4824
Specific Conductance	umhos/cm	MW-14	08/16/2021		1608.0000 *	1188.4824
Specific Conductance	umhos/cm	MW-14	06/01/2022		1382.0000 *	1188.4824
Specific Conductance	umhos/cm	MW-14	05/03/2023		1501.0000 *	1188.4824
Specific Conductance	umhos/cm	MW-14	10/11/2023		1600.0000 *	1188.4824
Chemical Oxygen Demand	mg/L	MW-16	04/20/2020	ND	5.0000	21.2000
Chemical Oxygen Demand	mg/L	MW-16	10/20/2020		8.2300	21.2000
Chemical Oxygen Demand	mg/L	MW-16	04/26/2021		7.0500	21.2000

* - Significantly increased over background.

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

*** - Manual exclusion.

ND = Not Detected, Result = detection limit.

Table 8

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

Constituent	Units	Well	Date		Result	Pred. Limit
Chemical Oxygen Demand	mg/L	MW-16	08/16/2021		9.8900	21.2000
Chemical Oxygen Demand	mg/L	MW-16	06/01/2022		38.2000 *	21.2000
Chemical Oxygen Demand	mg/L	MW-16	10/03/2022		50.4000 *	21.2000
Chemical Oxygen Demand	mg/L	MW-16	05/03/2023		12.1000	21.2000
Chemical Oxygen Demand	mg/L	MW-16	10/11/2023		28.7000 *	21.2000
Chloride	mg/L	MW-16	04/20/2020		12.0000 *	7.3000
Chloride	mg/L	MW-16	10/20/2020		27.8000 *	7.3000
Chloride	mg/L	MW-16	04/26/2021		5.5000	7.3000
Chloride	mg/L	MW-16	08/16/2021		8.8000 *	7.3000
Chloride	mg/L	MW-16	06/01/2022		9.7300 *	7.3000
Chloride	mg/L	MW-16	10/03/2022		9.5800 *	7.3000
Chloride	mg/L	MW-16	05/03/2023		6.9500	7.3000
Chloride	mg/L	MW-16	10/11/2023		7.8900 *	7.3000
Specific Conductance	umhos/cm	MW-16	04/20/2020		1524.0000 *	1188.4824
Specific Conductance	umhos/cm	MW-16	10/20/2020		1680.0000 *	1188.4824
Specific Conductance	umhos/cm	MW-16	04/26/2021		1436.0000 *	1188.4824
Specific Conductance	umhos/cm	MW-16	08/16/2021		1382.0000 *	1188.4824
Specific Conductance	umhos/cm	MW-16	06/01/2022		1103.0000	1188.4824
Specific Conductance	umhos/cm	MW-16	10/03/2022		1134.0000	1188.4824
Specific Conductance	umhos/cm	MW-16	05/03/2023		1319.0000 *	1188.4824
Specific Conductance	umhos/cm	MW-16	10/11/2023		1432.0000 *	1188.4824
Chloride	mg/L	MW-8	10/10/1996		12.0000 *	7.3000
Chloride	mg/L	MW-8	01/21/1997		12.0000 *	7.3000
Chloride	mg/L	MW-8	04/17/1997		13.0000 *	7.3000
Chloride	mg/L	MW-8	07/15/1997		15.0000 *	7.3000
Chloride	mg/L	MW-8	10/04/1997		11.0000 *	7.3000
Chloride	mg/L	MW-8	04/22/1998		11.0000 *	7.3000
Chloride	mg/L	MW-8	10/19/1998		12.0000 *	7.3000
Chloride	mg/L	MW-8	04/30/1999		12.0000 *	7.3000
Chloride	mg/L	MW-8	09/01/1999		10.0000 *	7.3000
Chloride	mg/L	MW-8	04/12/2000		8.4000 *	7.3000
Chloride	mg/L	MW-8	10/17/2000		6.2000	7.3000
Chloride	mg/L	MW-8	04/25/2001		9.4000 *	7.3000
Chloride	mg/L	MW-8	10/23/2001		21.6000 *	7.3000
Chloride	mg/L	MW-8	04/28/2002		55.4000 *	7.3000
Chloride	mg/L	MW-8	10/06/2002		26.7000 *	7.3000
Chloride	mg/L	MW-8	04/03/2003		14.2000 *	7.3000
Chloride	mg/L	MW-8	10/07/2003		21.6000 *	7.3000
Chloride	mg/L	MW-8	04/30/2004		14.3000 *	7.3000
Chloride	mg/L	MW-8	10/12/2004		22.8000 *	7.3000
Chloride	mg/L	MW-8	04/26/2005		36.0000 *	7.3000
Chloride	mg/L	MW-8	10/11/2005		37.2000 *	7.3000
Chloride	mg/L	MW-8	04/26/2006		23.9000 *	7.3000
Chloride	mg/L	MW-8	10/05/2006		23.0000 *	7.3000
Chloride	mg/L	MW-8	04/23/2007		24.1000 *	7.3000
Chloride	mg/L	MW-8	10/09/2007		30.2000 *	7.3000
Chloride	mg/L	MW-8	04/07/2008		34.0000 *	7.3000
Chloride	mg/L	MW-8	10/14/2008		32.5000 *	7.3000
Chloride	mg/L	MW-8	04/07/2009		23.3000 *	7.3000
Chloride	mg/L	MW-8	10/05/2009		20.5000 *	7.3000
Chloride	mg/L	MW-8	04/01/2010		14.5000 *	7.3000
Chloride	mg/L	MW-8	10/01/2010		16.9000 *	7.3000
Chloride	mg/L	MW-8	04/07/2011		19.6000 *	7.3000
Chloride	mg/L	MW-8	10/27/2011		16.0000 *	7.3000
Chloride	mg/L	MW-8	04/23/2012		13.5000 *	7.3000
Chloride	mg/L	MW-8	10/23/2012		12.3000 *	7.3000
Chloride	mg/L	MW-8	04/16/2013		11.9000 *	7.3000
Chloride	mg/L	MW-8	10/28/2013		9.8600 *	7.3000
Chloride	mg/L	MW-8	04/24/2014		12.5000 *	7.3000
Chloride	mg/L	MW-8	10/06/2014		11.5000 *	7.3000
Chloride	mg/L	MW-8	04/21/2015		13.9000 *	7.3000
Chloride	mg/L	MW-8	10/05/2015		10.5000 *	7.3000
Chloride	mg/L	MW-8	04/26/2016		18.7000 *	7.3000
Chloride	mg/L	MW-8	10/05/2016		35.8000 *	7.3000
Chloride	mg/L	MW-8	04/04/2017		29.6000 *	7.3000
Chloride	mg/L	MW-8	10/10/2017		20.8000 *	7.3000
Chloride	mg/L	MW-8	04/11/2018		16.4000 *	7.3000
Chloride	mg/L	MW-8	10/30/2018		35.6000 *	7.3000
Chloride	mg/L	MW-8	04/01/2019		30.3000 *	7.3000
Chloride	mg/L	MW-8	10/08/2019		26.3000 *	7.3000
Chloride	mg/L	MW-8	04/20/2020		21.7000 *	7.3000

* - Significantly increased over background.

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

*** - Manual exclusion.

ND = Not Detected, Result = detection limit.

Table 8

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

Constituent	Units	Well	Date		Result	Pred. Limit
Chloride	mg/L	MW-8	10/20/2020		21.7000 *	7.3000
Chloride	mg/L	MW-8	04/26/2021		16.3000 *	7.3000
Chloride	mg/L	MW-8	08/16/2021		15.6000 *	7.3000
Chloride	mg/L	MW-8	06/01/2022		13.1000 *	7.3000
Chloride	mg/L	MW-8	10/03/2022		12.8000 *	7.3000
Chloride	mg/L	MW-8	05/03/2023		12.9000 *	7.3000
Chloride	mg/L	MW-8	10/11/2023		12.7000 *	7.3000
Specific Conductance	umhos/cm	MW-8	10/10/1996		923.0000	1188.4824
Specific Conductance	umhos/cm	MW-8	01/21/1997		823.0000	1188.4824
Specific Conductance	umhos/cm	MW-8	04/17/1997		896.0000	1188.4824
Specific Conductance	umhos/cm	MW-8	07/15/1997		929.0000	1188.4824
Specific Conductance	umhos/cm	MW-8	10/04/1997		888.0000	1188.4824
Specific Conductance	umhos/cm	MW-8	04/22/1998		945.0000	1188.4824
Specific Conductance	umhos/cm	MW-8	10/19/1998		1003.0000	1188.4824
Specific Conductance	umhos/cm	MW-8	04/30/1999		1050.0000	1188.4824
Specific Conductance	umhos/cm	MW-8	09/01/1999		1092.0000	1188.4824
Specific Conductance	umhos/cm	MW-8	04/12/2000		970.0000	1188.4824
Specific Conductance	umhos/cm	MW-8	10/17/2000		942.0000	1188.4824
Specific Conductance	umhos/cm	MW-8	04/25/2001		1034.0000	1188.4824
Specific Conductance	umhos/cm	MW-8	10/23/2001		538.0000	1188.4824
Specific Conductance	umhos/cm	MW-8	04/28/2002		984.0000	1188.4824
Specific Conductance	umhos/cm	MW-8	10/06/2002		895.0000	1188.4824
Specific Conductance	umhos/cm	MW-8	04/03/2003		1060.0000	1188.4824
Specific Conductance	umhos/cm	MW-8	10/07/2003		1115.0000	1188.4824
Specific Conductance	umhos/cm	MW-8	04/30/2004		832.0000	1188.4824
Specific Conductance	umhos/cm	MW-8	10/12/2004		563.0000	1188.4824
Specific Conductance	umhos/cm	MW-8	04/26/2005		90.0000	1188.4824
Specific Conductance	umhos/cm	MW-8	10/11/2005		1529.0000 *	1188.4824
Specific Conductance	umhos/cm	MW-8	04/26/2006		1337.0000 *	1188.4824
Specific Conductance	umhos/cm	MW-8	10/05/2006		1351.0000 *	1188.4824
Specific Conductance	umhos/cm	MW-8	04/23/2007		1258.0000 *	1188.4824
Specific Conductance	umhos/cm	MW-8	10/09/2007		1402.0000 *	1188.4824
Specific Conductance	umhos/cm	MW-8	04/07/2008		1574.0000 *	1188.4824
Specific Conductance	umhos/cm	MW-8	10/14/2008		1366.0000 *	1188.4824
Specific Conductance	umhos/cm	MW-8	04/07/2009		1331.0000 *	1188.4824
Specific Conductance	umhos/cm	MW-8	10/05/2009		1271.0000 *	1188.4824
Specific Conductance	umhos/cm	MW-8	04/01/2010		1312.0000 *	1188.4824
Specific Conductance	umhos/cm	MW-8	10/01/2010		1321.0000 *	1188.4824
Specific Conductance	umhos/cm	MW-8	04/07/2011		1215.0000 *	1188.4824
Specific Conductance	umhos/cm	MW-8	10/27/2011		1269.0000 *	1188.4824
Specific Conductance	umhos/cm	MW-8	04/23/2012		1223.0000 *	1188.4824
Specific Conductance	umhos/cm	MW-8	10/23/2012		1427.0000 *	1188.4824
Specific Conductance	umhos/cm	MW-8	04/16/2013		1419.0000 *	1188.4824
Specific Conductance	umhos/cm	MW-8	10/28/2013		1362.0000 *	1188.4824
Specific Conductance	umhos/cm	MW-8	04/24/2014		1345.0000 *	1188.4824
Specific Conductance	umhos/cm	MW-8	10/06/2014		1339.0000 *	1188.4824
Specific Conductance	umhos/cm	MW-8	04/21/2015		1389.0000 *	1188.4824
Specific Conductance	umhos/cm	MW-8	10/05/2015		1380.0000 *	1188.4824
Specific Conductance	umhos/cm	MW-8	04/26/2016		1442.0000 *	1188.4824
Specific Conductance	umhos/cm	MW-8	10/05/2016		1585.0000 *	1188.4824
Specific Conductance	umhos/cm	MW-8	04/04/2017		1326.0000 *	1188.4824
Specific Conductance	umhos/cm	MW-8	10/10/2017		1245.0000 *	1188.4824
Specific Conductance	umhos/cm	MW-8	04/11/2018		1232.0000 *	1188.4824
Specific Conductance	umhos/cm	MW-8	10/30/2018		1473.0000 *	1188.4824
Specific Conductance	umhos/cm	MW-8	04/01/2019		1507.0000 *	1188.4824
Specific Conductance	umhos/cm	MW-8	10/08/2019		1564.0000 *	1188.4824
Specific Conductance	umhos/cm	MW-8	04/20/2020		1622.0000 *	1188.4824
Specific Conductance	umhos/cm	MW-8	10/20/2020		1557.0000 *	1188.4824
Specific Conductance	umhos/cm	MW-8	04/26/2021		1618.0000 *	1188.4824
Specific Conductance	umhos/cm	MW-8	08/16/2021		1834.0000 *	1188.4824
Specific Conductance	umhos/cm	MW-8	06/01/2022		1466.0000 *	1188.4824
Specific Conductance	umhos/cm	MW-8	10/03/2022		1456.0000 *	1188.4824
Specific Conductance	umhos/cm	MW-8	05/03/2023		1390.0000 *	1188.4824
Specific Conductance	umhos/cm	MW-8	10/11/2023		1393.0000 *	1188.4824

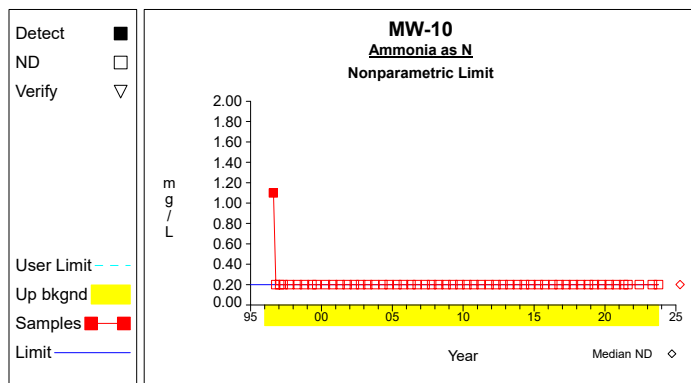
* - Significantly increased over background.

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

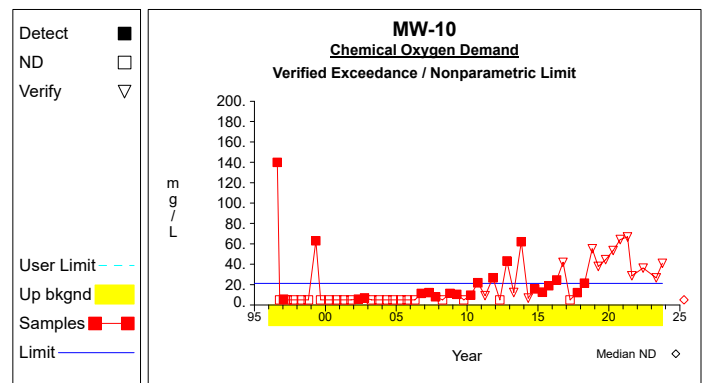
*** - Manual exclusion.

ND = Not Detected, Result = detection limit.

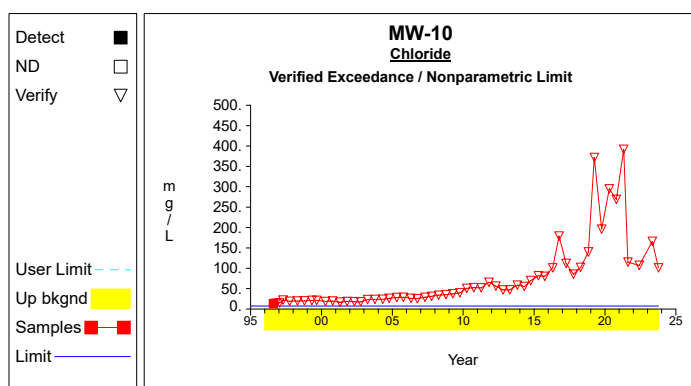
Up vs. Down Prediction Limits



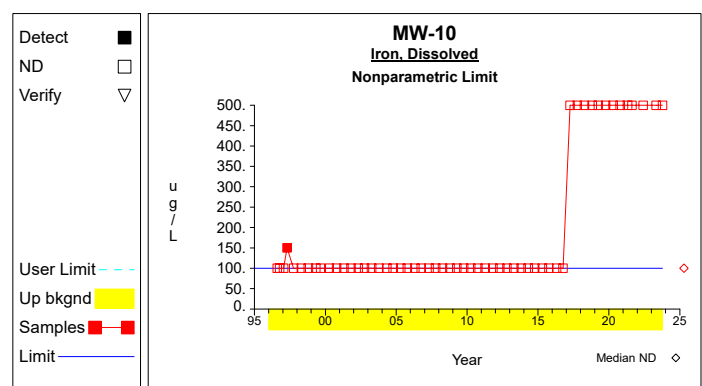
Graph 1



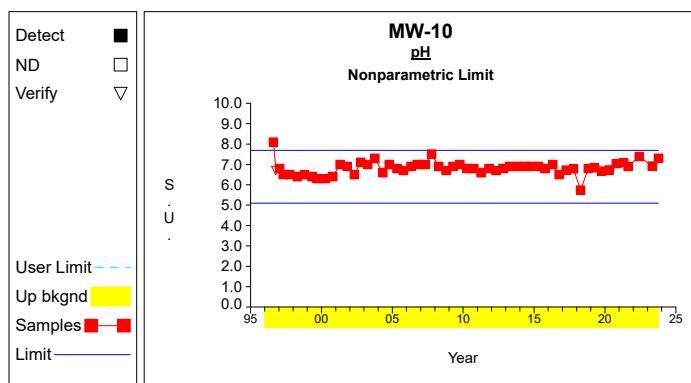
Graph 2



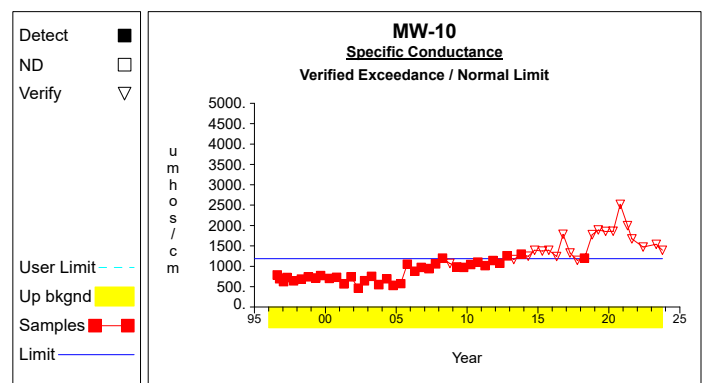
Graph 3



Graph 4

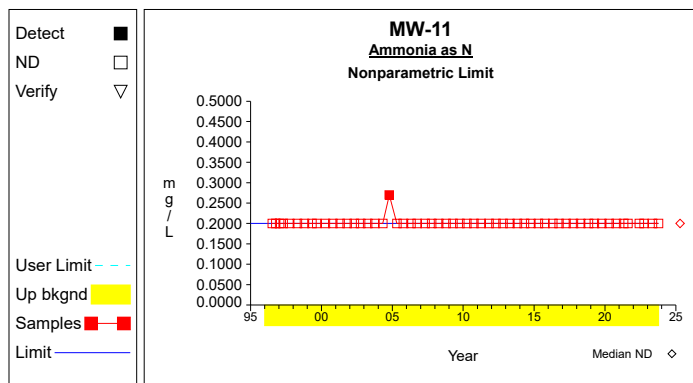


Graph 5

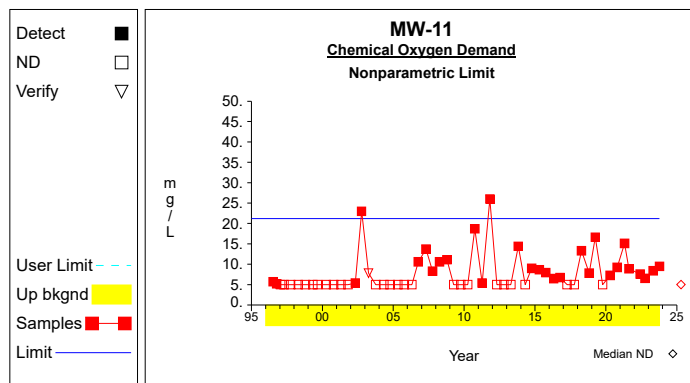


Graph 6

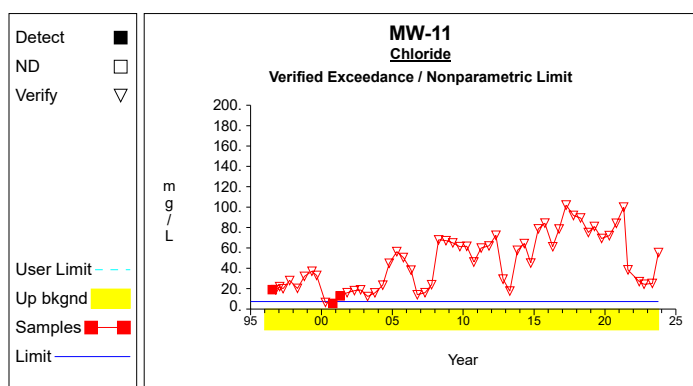
Up vs. Down Prediction Limits



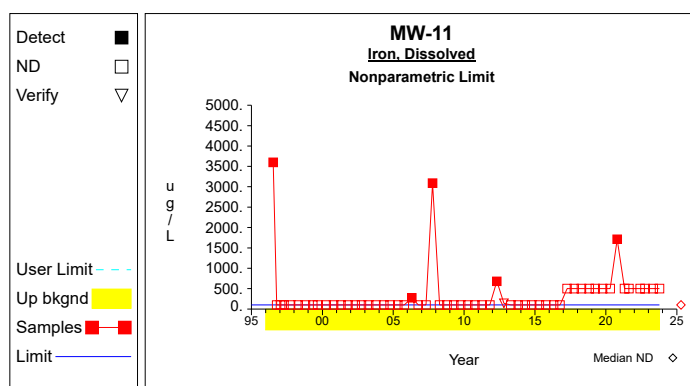
Graph 7



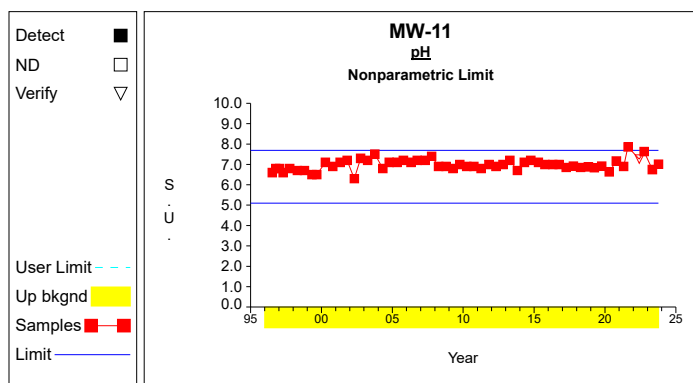
Graph 8



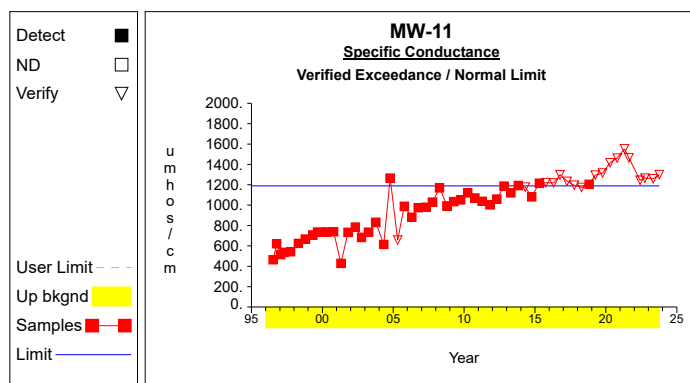
Graph 9



Graph 10

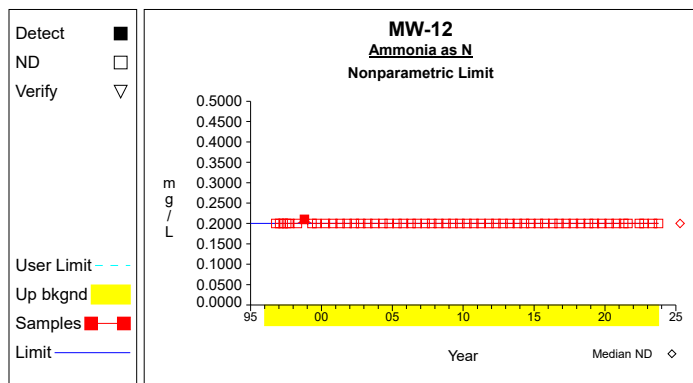


Graph 11

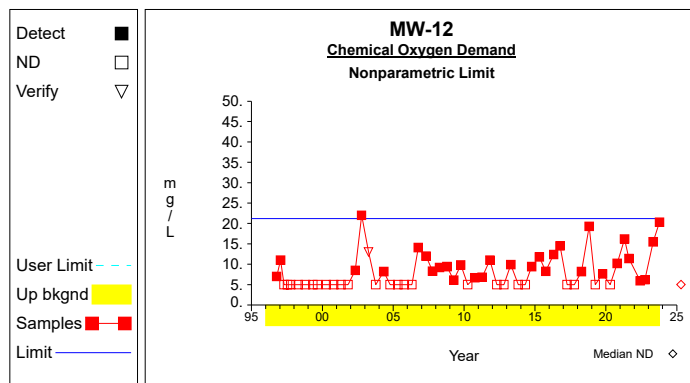


Graph 12

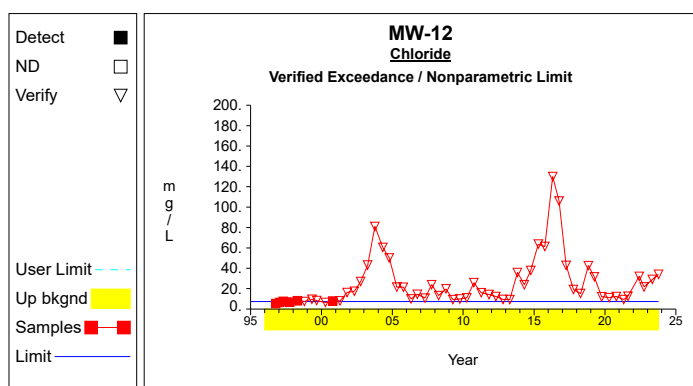
Up vs. Down Prediction Limits



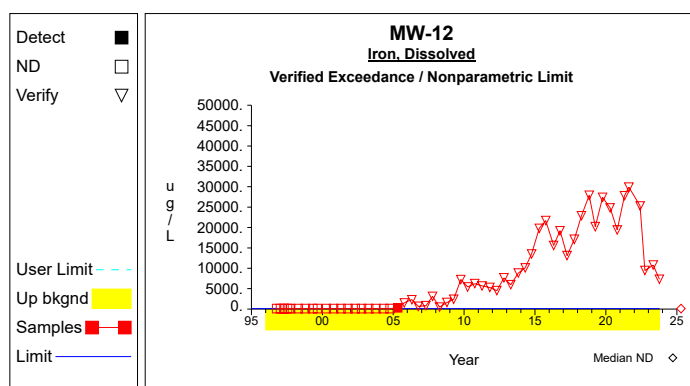
Graph 13



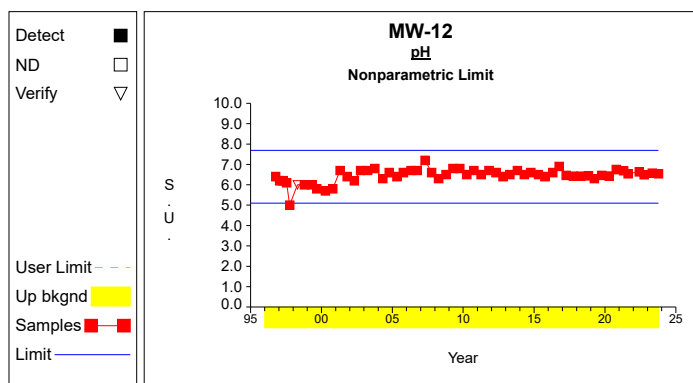
Graph 14



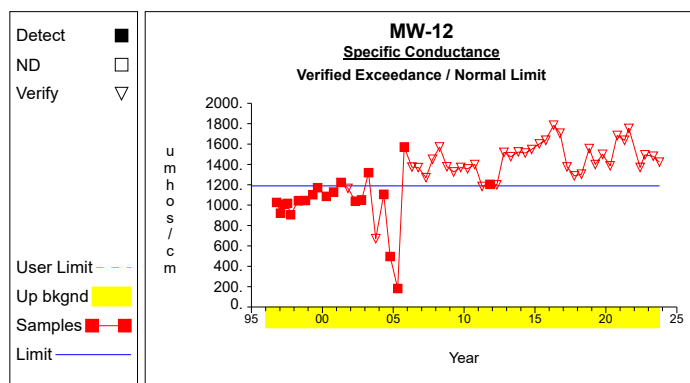
Graph 15



Graph 16

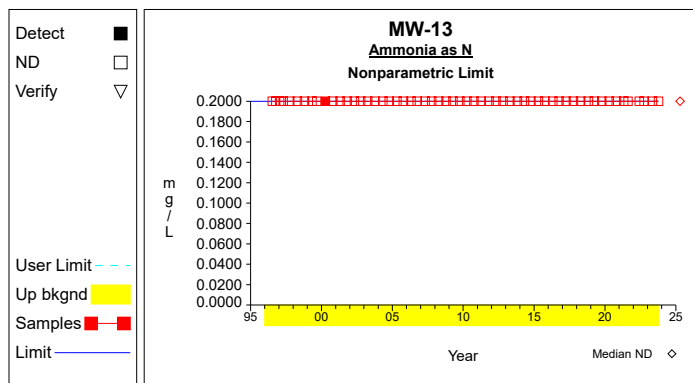


Graph 17

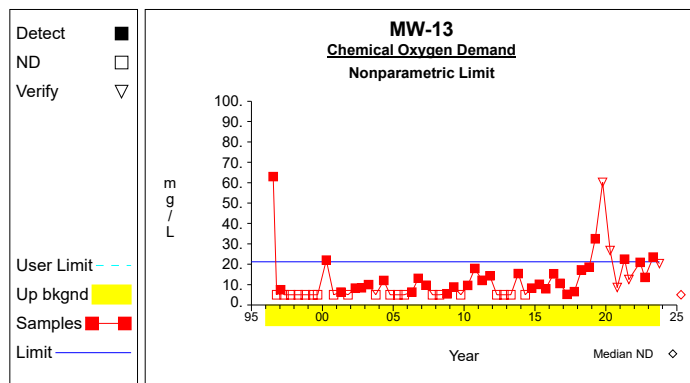


Graph 18

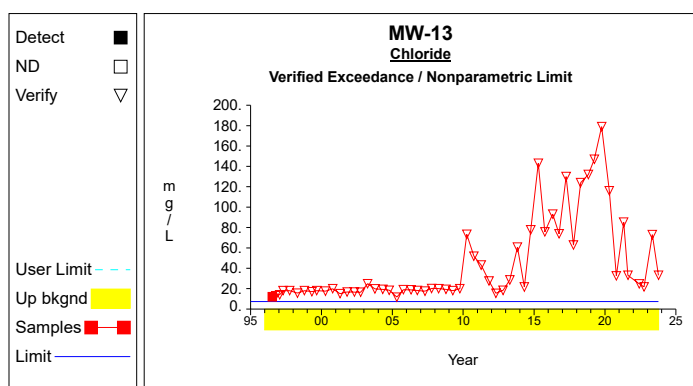
Up vs. Down Prediction Limits



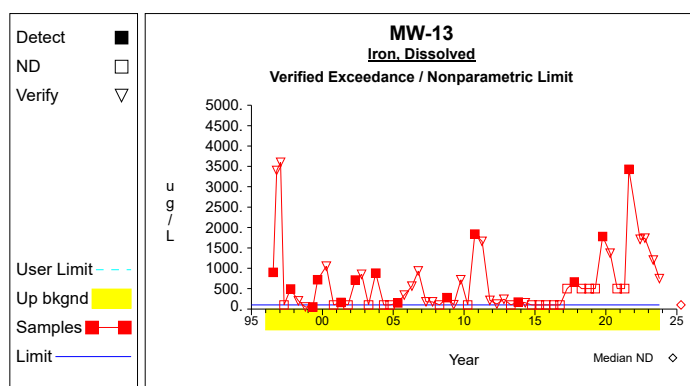
Graph 19



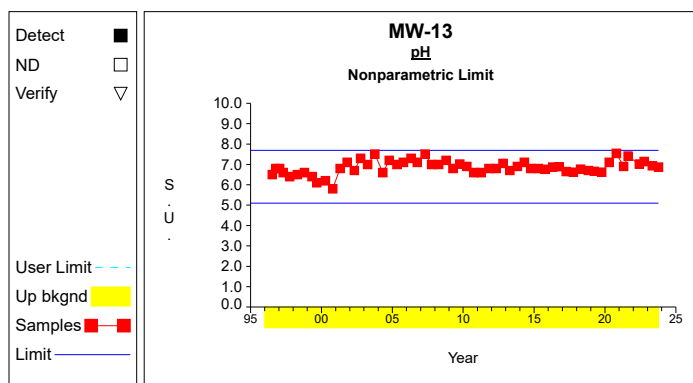
Graph 20



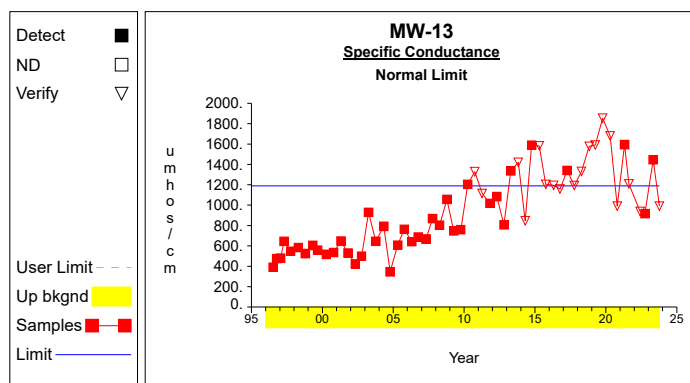
Graph 21



Graph 22

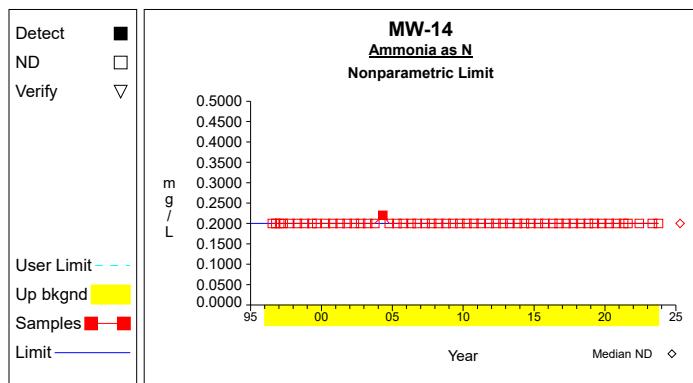


Graph 23

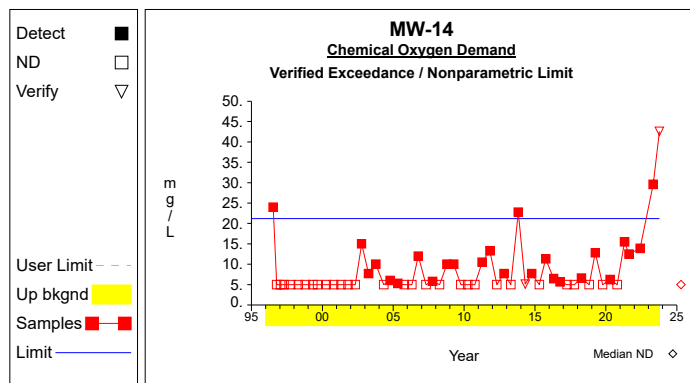


Graph 24

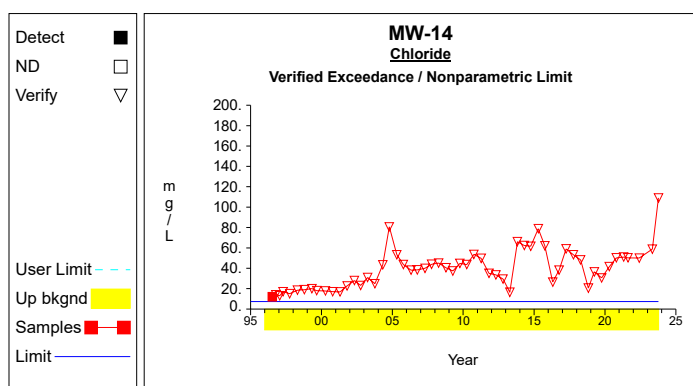
Up vs. Down Prediction Limits



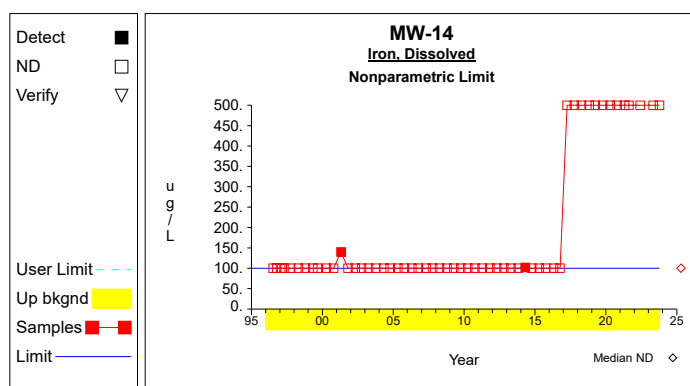
Graph 25



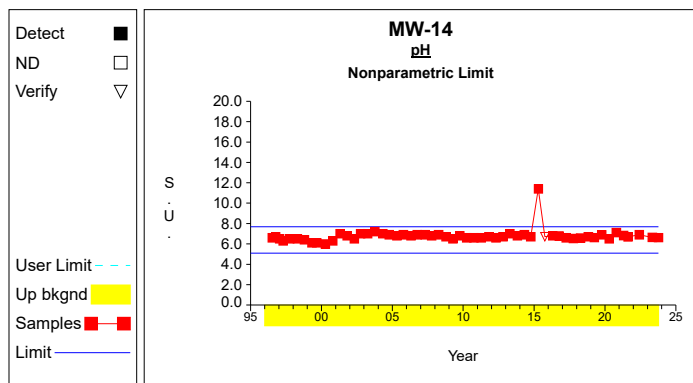
Graph 26



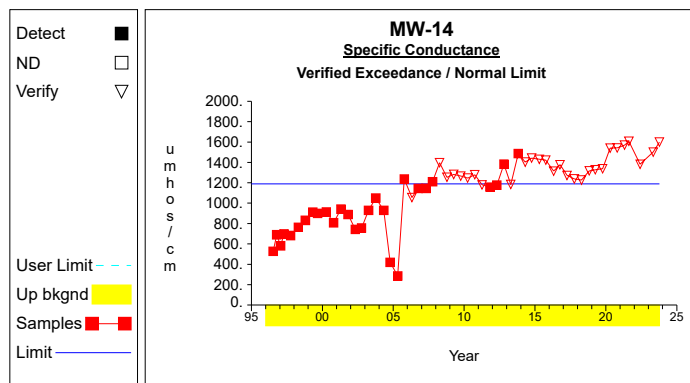
Graph 27



Graph 28

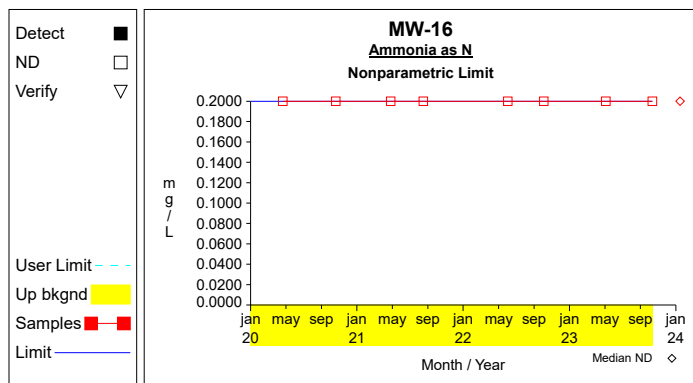


Graph 29

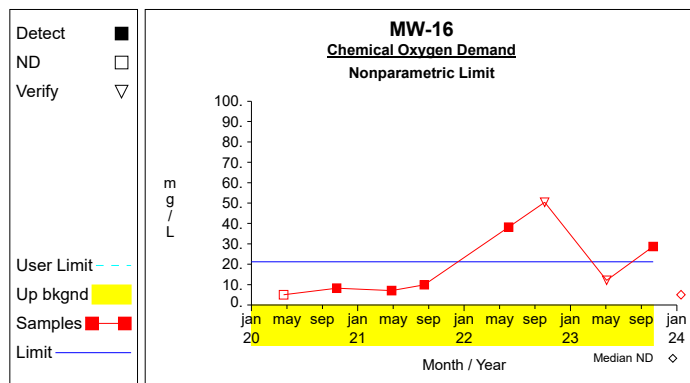


Graph 30

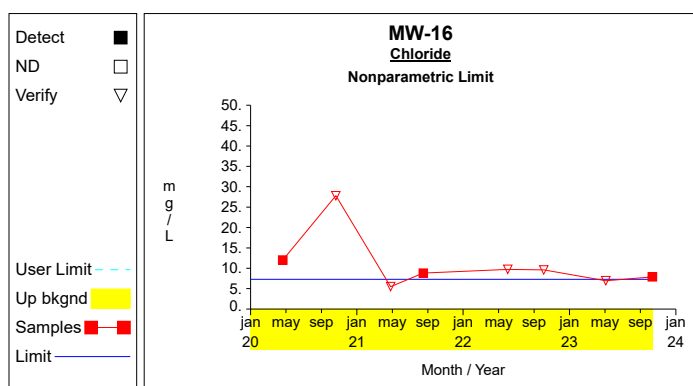
Up vs. Down Prediction Limits



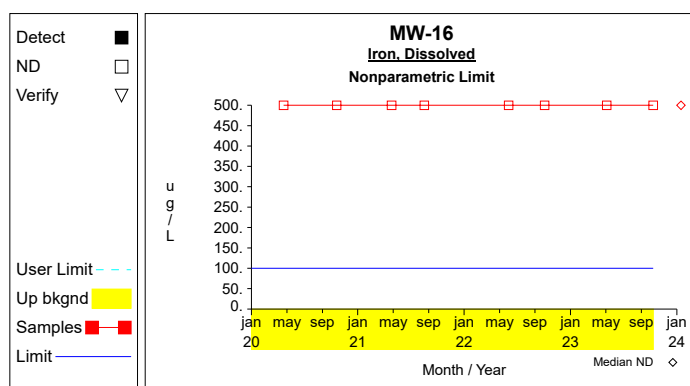
Graph 31



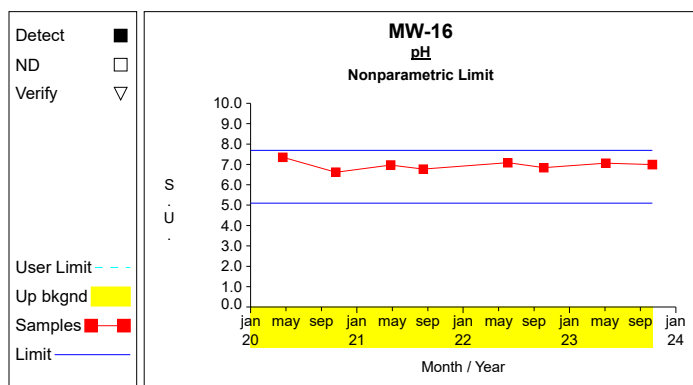
Graph 32



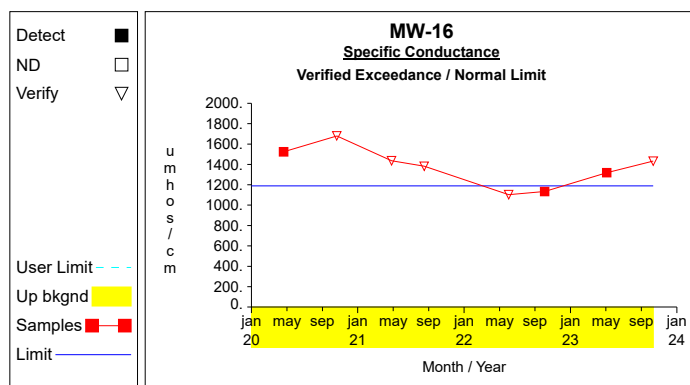
Graph 33



Graph 34

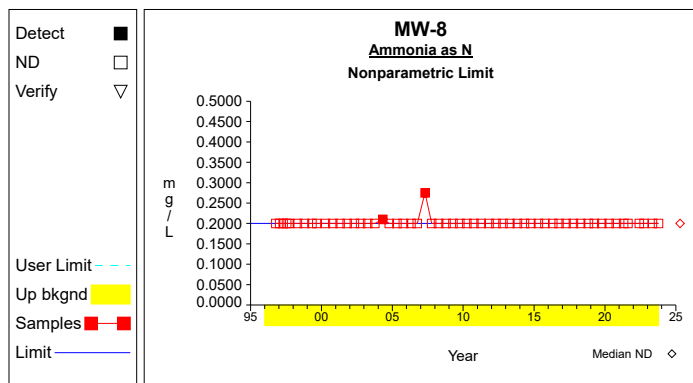


Graph 35

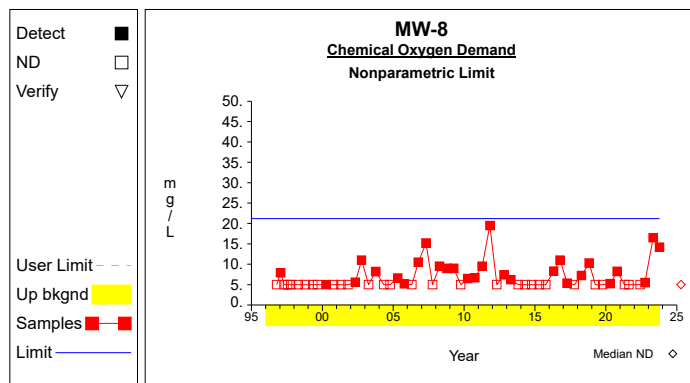


Graph 36

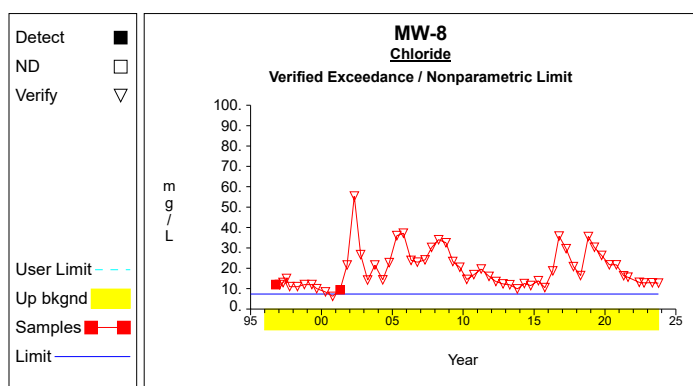
Up vs. Down Prediction Limits



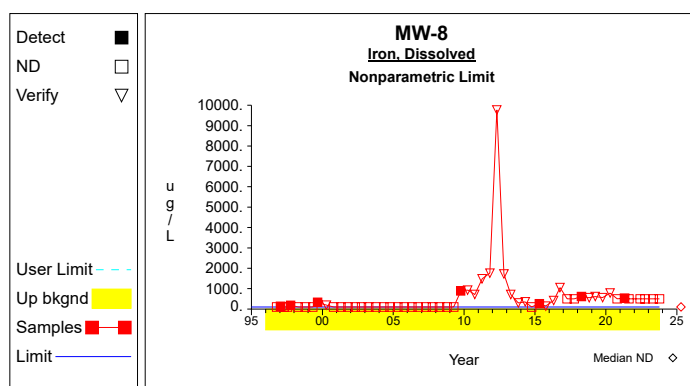
Graph 37



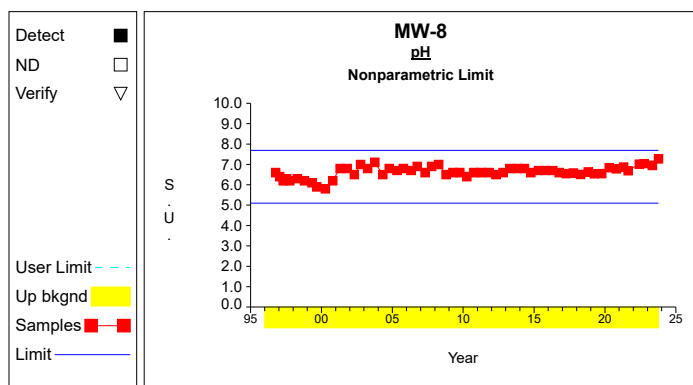
Graph 38



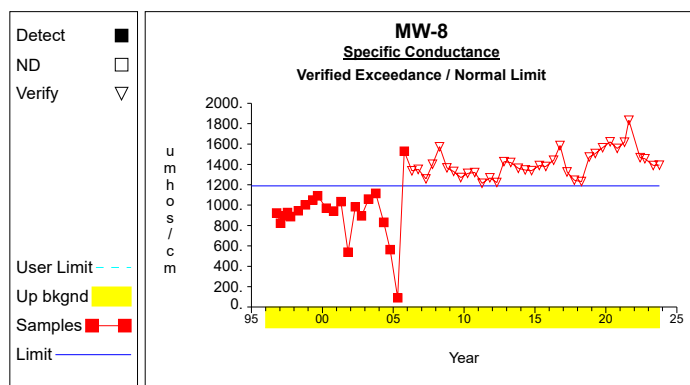
Graph 39



Graph 40

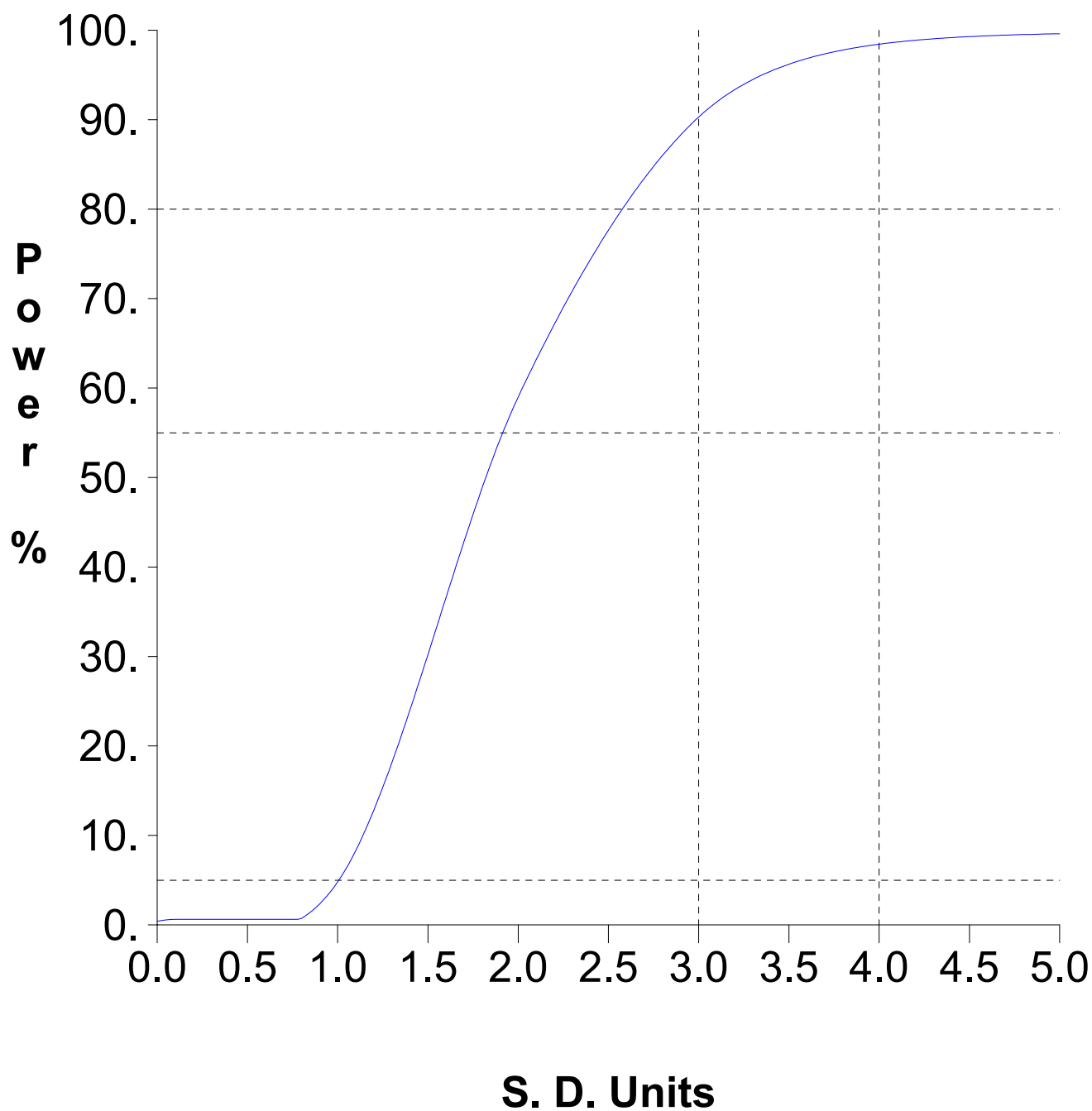


Graph 41



Graph 42

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



Attachment F

Assessment Statistics on Verified VOCs
Second Semi-Annual Monitoring Event in 2023

Table 1

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

Constituent	Units	Well	N	Mean	SD	Factor	95% LCL	95% UCL	Standard	Trend	
1,2-Dichloroethane	ug/L	MW-12	4	0.500	0.000	1.176	0.500	0.500	5.000		
1,2-Dichloropropane	ug/L	MW-12	4	0.500	0.000	1.176	0.500	0.500	5.000		
Benzene	ug/L	MW-12	4	1.168	0.285	1.176	0.834	1.503	5.000		
cis-1,2-Dichloroethene	ug/L	MW-12	4	32.350	1.936	1.176	30.072	34.628	70.000		
Tetrachloroethene	ug/L	MW-12	4	0.500	0.000	1.176	0.500	0.500	5.000		
Trichloroethene	ug/L	MW-12	4	0.500	0.000	1.176	0.500	0.500	5.000	dec	
Vinyl Chloride	ug/L	MW-12	4	4.115	2.313	1.176	1.394	6.836	2.000		
1,2-Dichloroethane	ug/L	MW-14	4	0.500	0.000	1.176	0.500	0.500	5.000		
1,2-Dichloropropane	ug/L	MW-14	4	0.763	0.525	1.176	0.145	1.380	5.000		
Benzene	ug/L	MW-14	4	0.250	0.000	1.176	0.250	0.250	5.000		
cis-1,2-Dichloroethene	ug/L	MW-14	4	46.450	18.878	1.176	24.245	68.655	70.000		
Tetrachloroethene	ug/L	MW-14	4	0.500	0.000	1.176	0.500	0.500	5.000		
Trichloroethene	ug/L	MW-14	4	0.500	0.000	1.176	0.500	0.500	5.000		
Vinyl Chloride	ug/L	MW-14	4	0.500	0.000	1.176	0.500	0.500	2.000		
1,2-Dichloroethane	ug/L	MW-7	4	0.698	0.395	1.176	0.233	1.162	5.000		
1,2-Dichloropropane	ug/L	MW-7	4	11.950	1.008	1.176	10.764	13.136	5.000		**
Benzene	ug/L	MW-7	4	0.524	0.323	1.176	0.144	0.903	5.000		
cis-1,2-Dichloroethene	ug/L	MW-7	4	173.000	23.108	1.176	145.818	200.182	70.000		**
Tetrachloroethene	ug/L	MW-7	4	2.500	0.510	1.176	1.900	3.100	5.000	dec	
Trichloroethene	ug/L	MW-7	4	7.543	1.320	1.176	5.990	9.095	5.000		**
Vinyl Chloride	ug/L	MW-7	4	2.560	1.395	1.176	0.919	4.201	2.000	inc	
1,2-Dichloroethane	ug/L	MW-8	4	0.500	0.000	1.176	0.500	0.500	5.000	dec	
1,2-Dichloropropane	ug/L	MW-8	4	0.970	0.325	1.176	0.588	1.352	5.000		
Benzene	ug/L	MW-8	4	0.250	0.000	1.176	0.250	0.250	5.000		
cis-1,2-Dichloroethene	ug/L	MW-8	4	52.275	5.792	1.176	45.462	59.088	70.000		
Tetrachloroethene	ug/L	MW-8	4	0.500	0.000	1.176	0.500	0.500	5.000		
Trichloroethene	ug/L	MW-8	4	0.658	0.315	1.176	0.287	1.028	5.000	dec	
Vinyl Chloride	ug/L	MW-8	4	1.883	0.724	1.176	1.030	2.735	2.000		

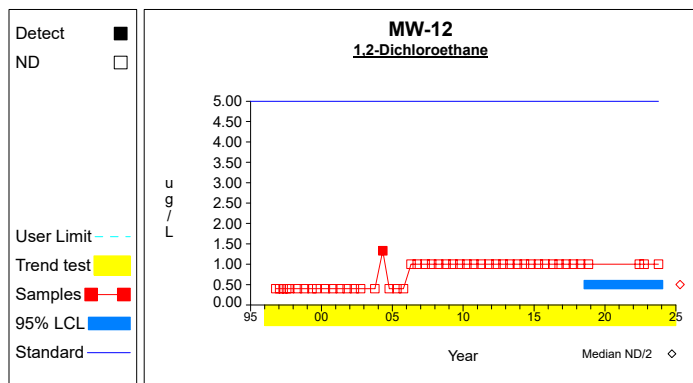
* - Insufficient Data

** - Significant Exceedance

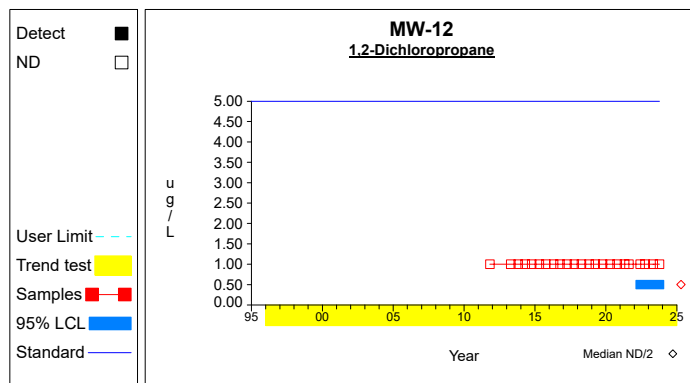
LCL = Lower Confidence Limit

UCL = Upper Confidence Limit

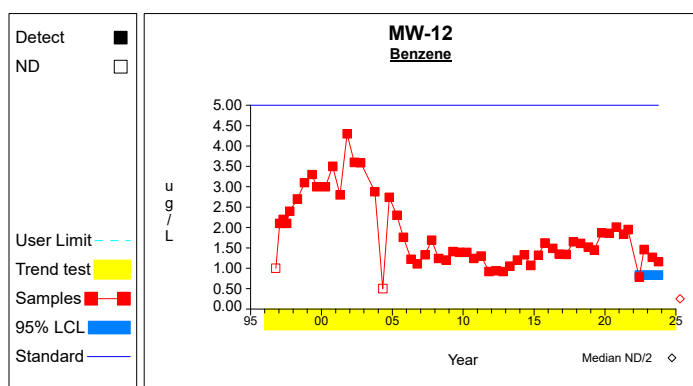
Confidence Limits (Assessment)



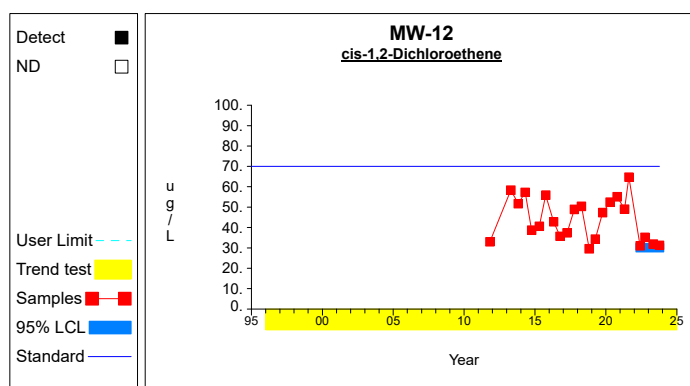
Graph 1



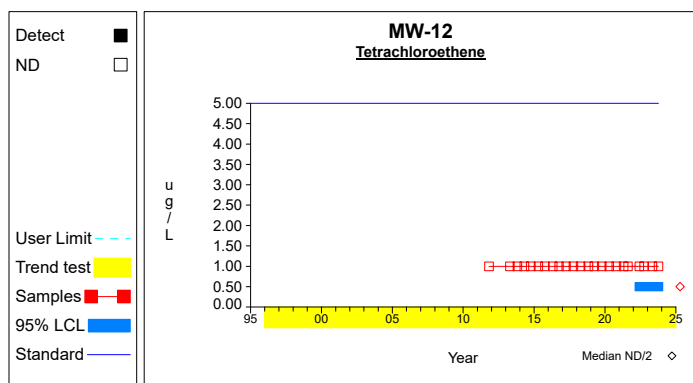
Graph 2



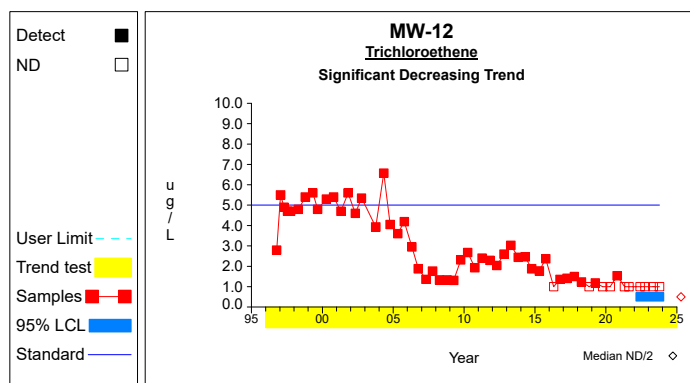
Graph 3



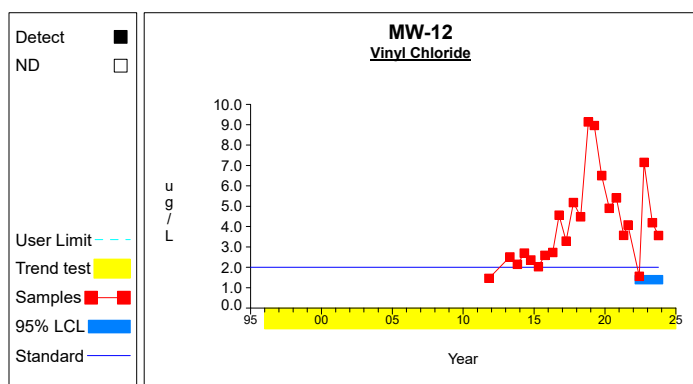
Graph 4



Graph 5

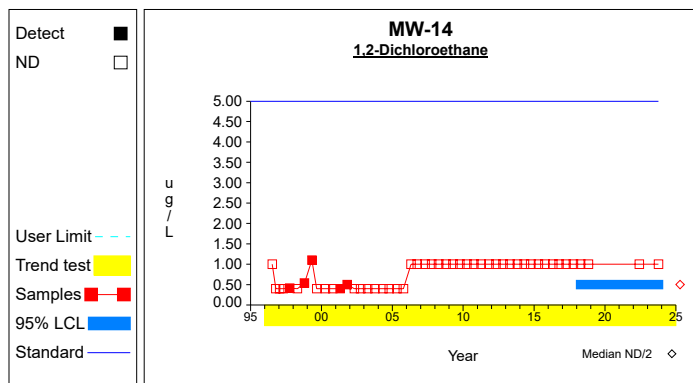


Graph 6

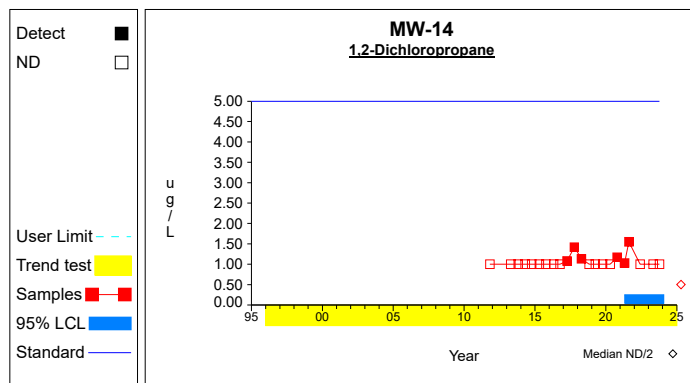


Graph 7

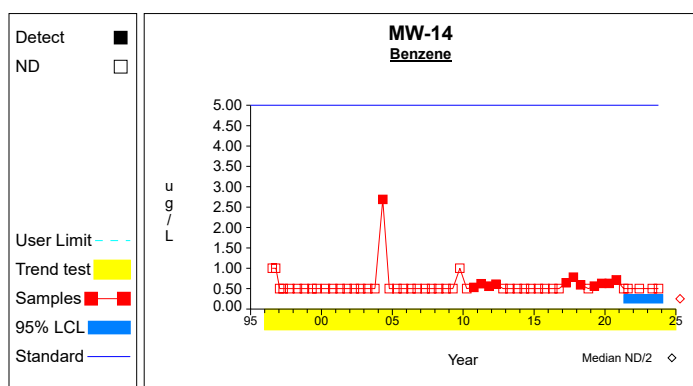
Confidence Limits (Assessment)



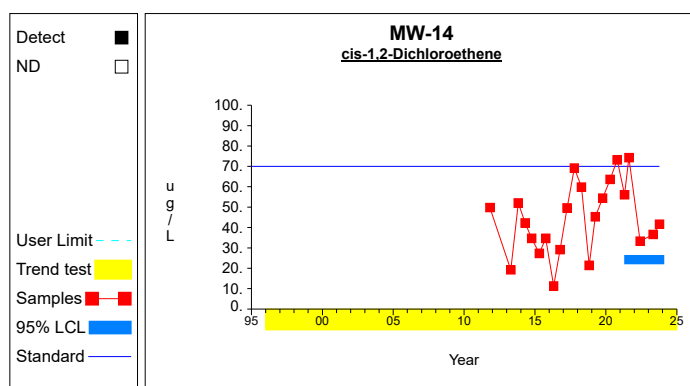
Graph 8



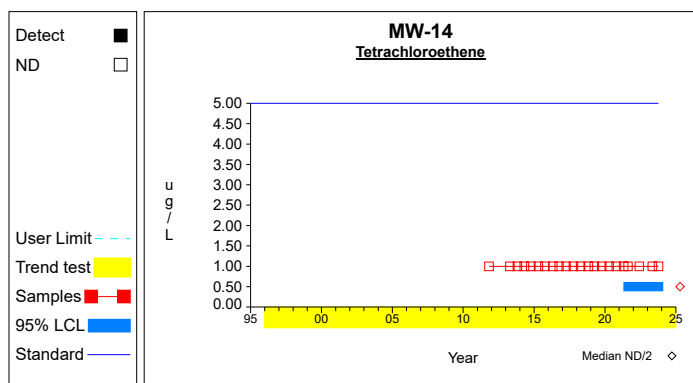
Graph 9



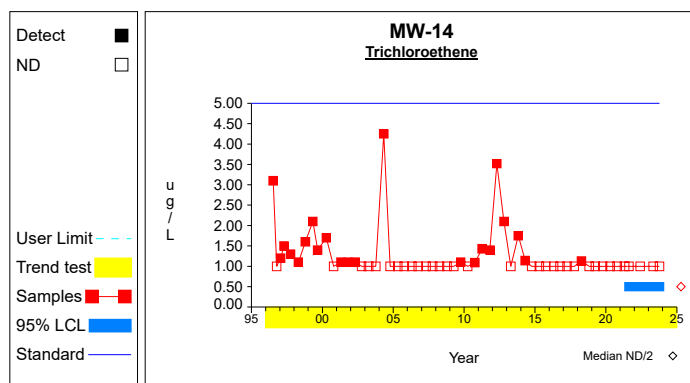
Graph 10



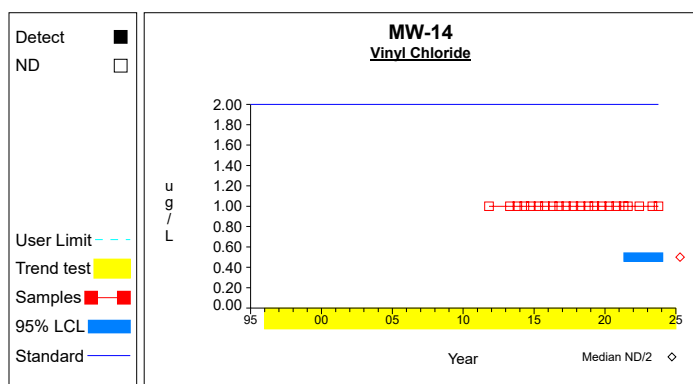
Graph 11



Graph 12

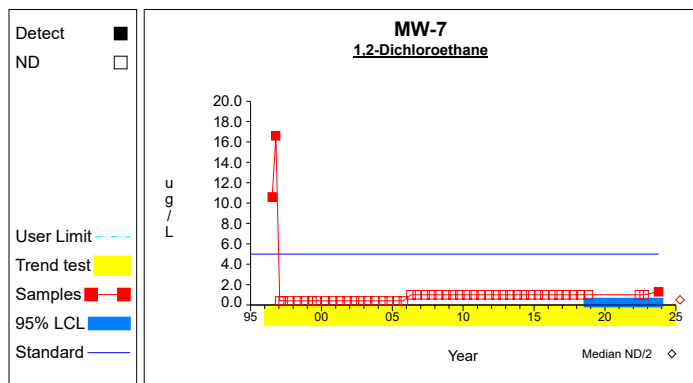


Graph 13

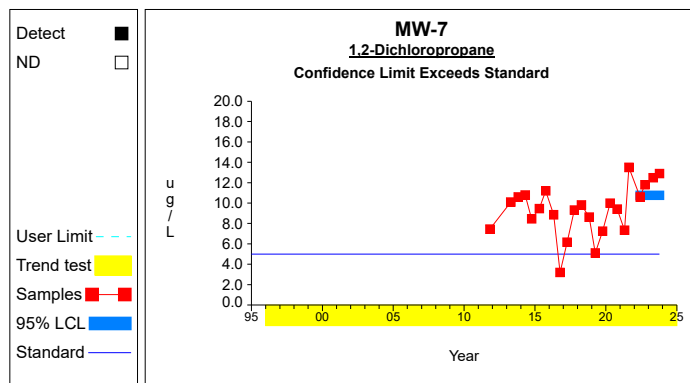


Graph 14

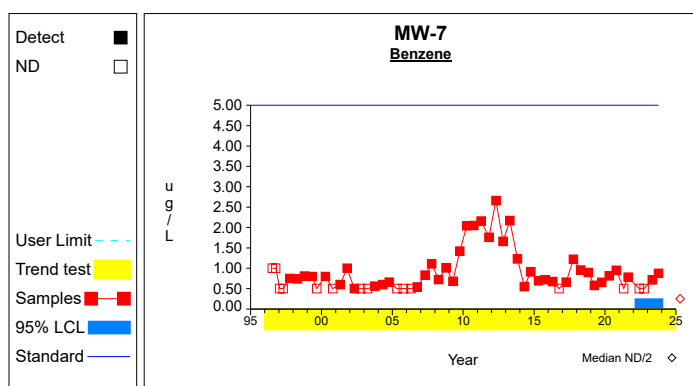
Confidence Limits (Assessment)



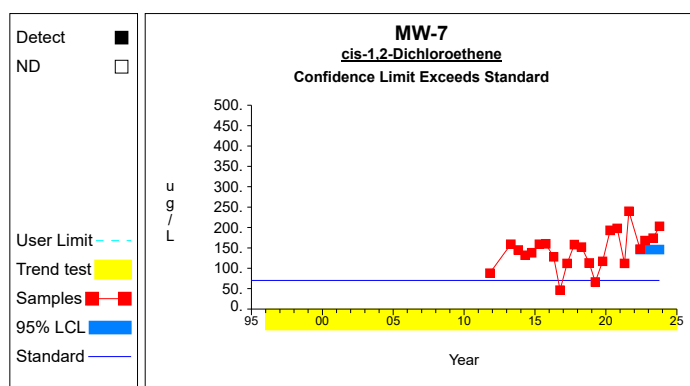
Graph 15



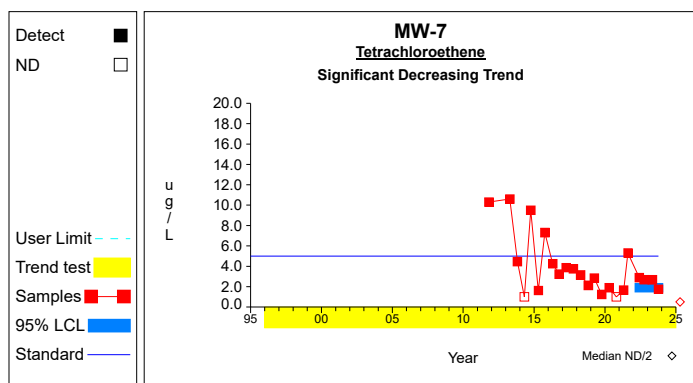
Graph 16



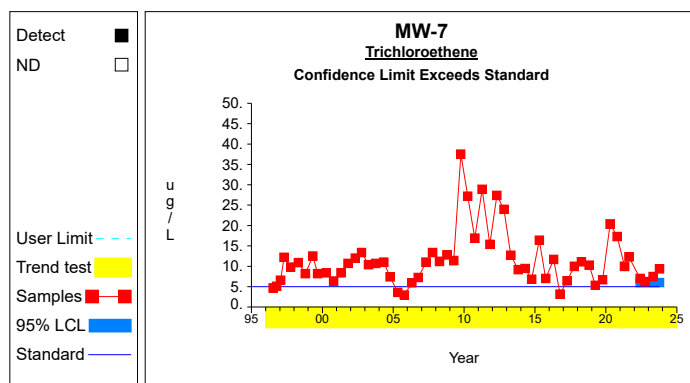
Graph 17



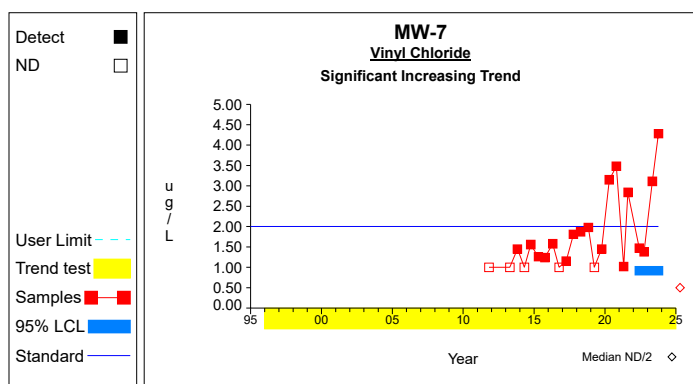
Graph 18



Graph 19

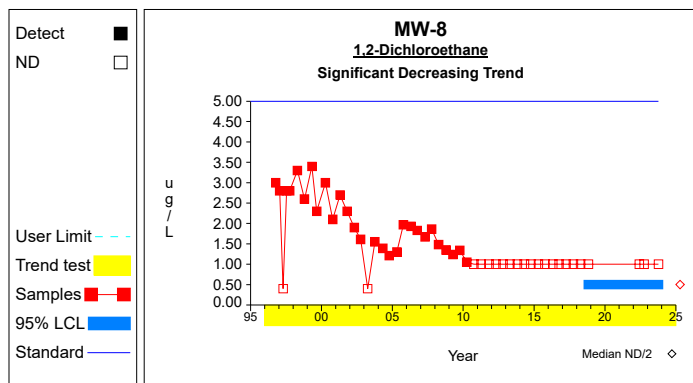


Graph 20

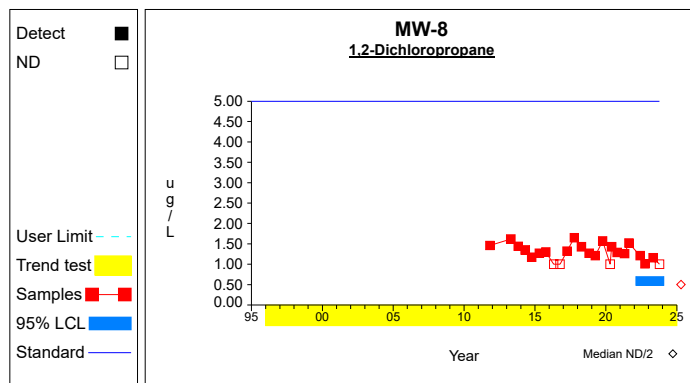


Graph 21

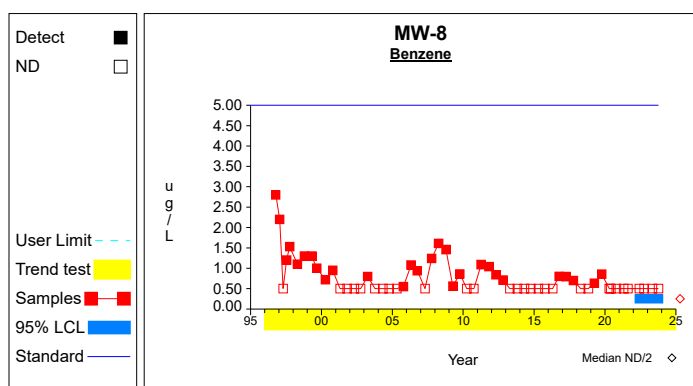
Confidence Limits (Assessment)



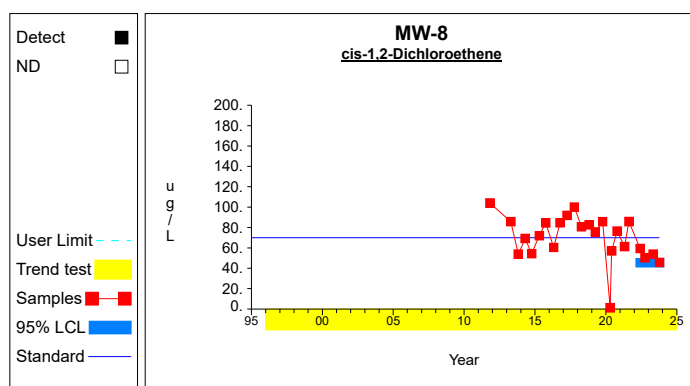
Graph 22



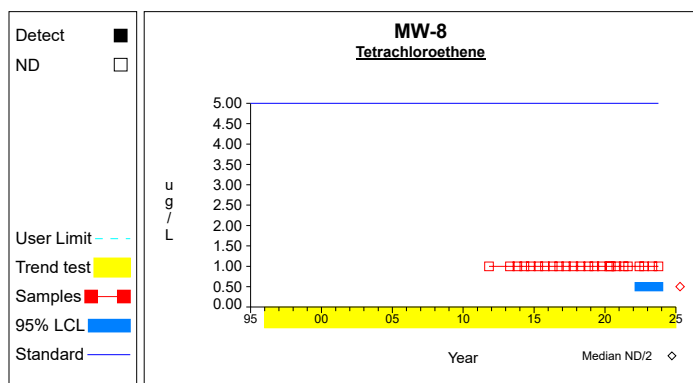
Graph 23



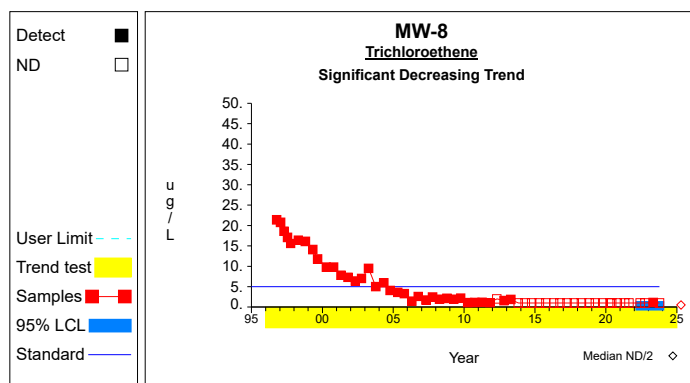
Graph 24



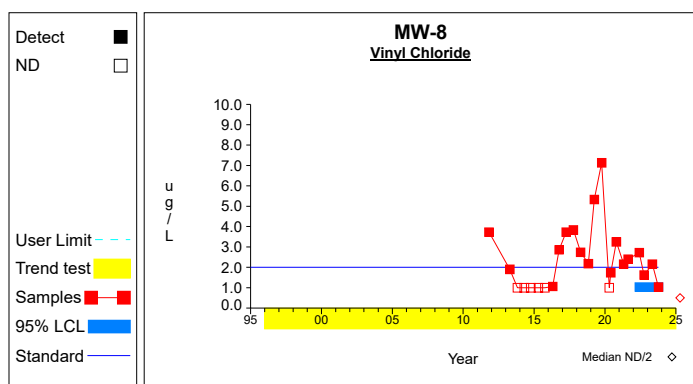
Graph 25



Graph 26



Graph 27



Graph 28