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TO Florida Department of Environmental Protection
Waste Program Administrator
3319 Maguire Blvd, Suite 232
Orlando, Florida 32803-3767

DATE October 21, 2013
 JOB NO. 09207039.05
 ATTENTION Tom Lubozynski
 Re: Vista Road Landfill

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- ☐ Copy of letter ☐ Change Order
- ☐ The following items: ☐ Plans ☐ Samples
- ☐ Specifications ☐ _____

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REMARKS Mr. Lubozynski,

Enclosed is the 2013 Technical Water Quality Monitoring report for the referenced site.

Please do not hesitate to reach our offices with questions or concerns.

Jay Davoll, City of Apopka (report)
 Debbie Perez, WMI (cd)
 Jim Christiansen/Paul Bermillo, WMI (cd)
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**VISTA LANDFILL
TECHNICAL
WATER QUALITY MONITORING
REPORT
2011 THROUGH 2013**

Prepared for:

Vista Landfill, Inc.
242 West Keene Road
Apopka, Florida 32703

Prepared by:

SCS ENGINEERS
4041 Park Oaks Blvd., Suite 100
Tampa, Florida 33610
(813) 621-0080

October 18, 2013
File No. 09207039.05

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1 INTRODUCTION

SCS Engineers (SCS) prepared this technical water quality monitoring report for the Vista Landfill (VLF) on behalf of Vista Landfill, Inc. (VLI). The VLF is located approximately two miles south of Apopka, Florida, at 242 West Keene Road. The VLF lies south of Keene Road, west of Old Apopka-Clarcona Road, and east of Lake Mitchell in Orange County, Florida (Figure 1-1). The VLF is a Class III lined landfill with a leachate collection system. The bottom-liner system consists of three layers (from top to bottom): a 2-foot thick sand liner protective layer, a double-sided geocomposite drainage layer, and a 50-mil high density polyethylene (HDPE) geomembrane layer. Waste was initially placed in the landfill on November 17, 2008.

This report was prepared in general accordance with Florida Department of Environmental Protection (FDEP) Permit/certification No. SO48-0165969-20, Condition 26, Monitoring Plan Implementation Schedule (MPIS), and Chapter 62-701.510(9)(a) Florida Administrative Code (FAC). This report includes a summary and evaluation of the groundwater and leachate analytical data from monitoring events performed at the VLF from June 2011 through the most recent monitoring event, June 2013. Locations of monitoring sites are shown on Figure 1-2. The following lists the specific data and information included in this report.

- Tabular and graphical displays of data that show that a monitoring parameter has been detected, including hydrographs for monitoring wells water levels.
- Trend analysis of monitoring parameters detected.
- Comparison among shallow, middle, and deep zone wells.
- Comparison between up-gradient and down-gradient wells.
- Correlation between related parameters such as total dissolved solids and specific conductance.
- Discussion of erratic and/or poorly correlated data.
- An interpretation of the groundwater contour maps, including an evaluation of groundwater flow rates.
- An evaluation of the adequacy of the water quality monitoring frequency and sampling locations based upon site conditions.

Water quality sampling and physical readings and measurements were performed by technical staff of Pro-Tech Environmental (Pro-Tech), Atlanta, Georgia. Water quality analyses were performed by TestAmerica Laboratories, Inc. (TestAmerica Denver), Denver, Colorado. Field work, sampling methodologies, data evaluation, data Quality Assurance/Quality Control (QA/QC) were conducted in accordance with FAC Chapter 62-160 Standard Operating Procedures (DEP-SOP-001/01), the VLF MPIS, the VLF site permit, and the Pro-Tech sample

team quality manual. Laboratory analyses were performed in accordance with Chapter 62-160, FAC DEP-SOP-001/01, the BRL WQLMP, and the site permits. TestAmerica-Denver is certified by the Florida Department of Health Environmental Laboratory Certification Program (DoH ELCP).

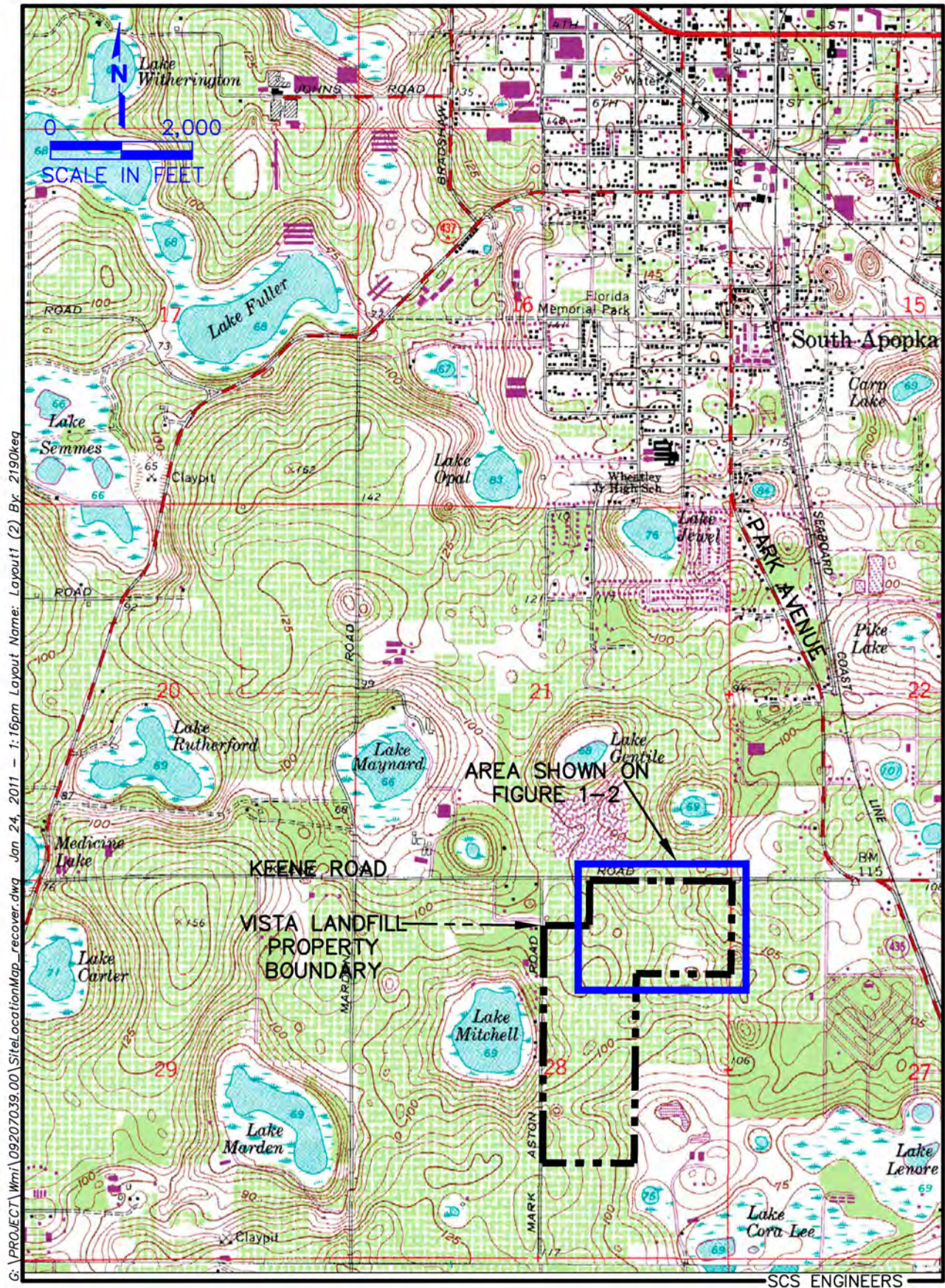


Figure 1-1. Site Location Map, Vista Landfill, Apopka, Florida.

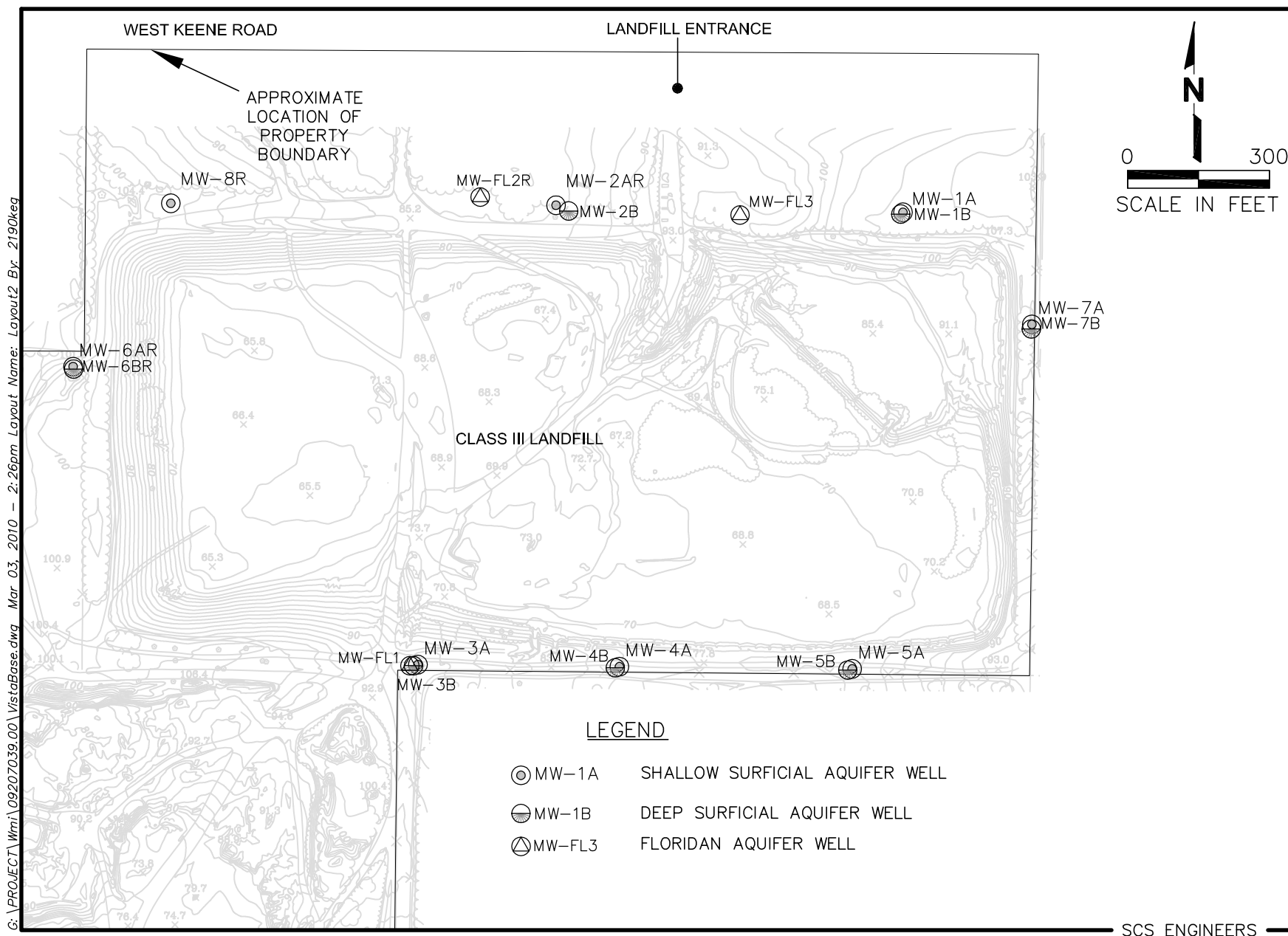


Figure 1-2. Site Map, Vista Landfill, Apopka, Florida.

2 GEOLOGIC AND HYDROGEOLOGIC CHARACTERISTICS

Figure 1-1 shows the topography of the VLF site and region prior to the site being developed as a borrow pit and then as a landfill. The topography indicates the site is located in a region that is internally drained.

Based on SCS' evaluation of the VLF hydrogeologic data, the groundwater at VLF primarily occurs in the Hawthorn Group and the underlying Floridan aquifer. The "surficial aquifer" consists of the water-bearing permeable zones of the Hawthorn Group that overlay the Floridan aquifer. The groundwater flow direction of the upper Hawthorn Group tends to mimic the pre-construction topography of the VLF. As seen on Figure 1-1, the topography of the VLF (Figure 1-1) generally slopes towards the north, west, and south.

The Floridan aquifer underlies the surficial aquifer at the KRL and is separated from it by the clay units of the Hawthorn Group.¹ Karst features (e.g., sinkholes) developed historically in the sediments overlying the upper Floridan aquifer, producing the internal drainage characteristics of the region. As a result, runoff and surficial aquifer groundwater flow moves toward and into these karst features, often resulting in the development of surface water bodies such as Lake Mitchell, which is located west of the VLF (Figure 1-1).

For this technical report, SCS performed groundwater flow assessment of the surficial aquifer for the period extending from June 2011 through June 2013. The activities included compiling groundwater depth measurements, calculating groundwater elevations, and plotting the data onto site figures to assess groundwater flow direction. Water level maps generated for the upper surficial aquifer (also referred to as the shallow surficial aquifer) and lower surficial aquifer (also referred to as the intermediate surficial aquifer) are presented in Appendix A. These maps are generated using the Surfer[®] Version 10 groundwater contouring computer program, with the interpretation verified by an SCS hydrogeologist.

Upper Surficial Aquifer

The upper surficial aquifer is defined as the uppermost water-bearing zone of the undifferentiated sands and clayey sands that are part of the Hawthorn Group. Water table maps of this aquifer were prepared by SCS from surficial aquifer well data for each of the sampling events (Figures A-1 through A-5, Appendix A). Groundwater flow typically is perpendicular to the water level contours. Therefore, the approximate direction of groundwater flow in the upper surficial aquifer is to the southwest. This groundwater flow configuration results from a combination of recharge from rainfall infiltration outside the bottom liner, interchange of groundwater with the underlying intermediate surficial aquifer, and lateral inflow to the shallow surficial aquifer from outside the VLF.

¹ The Rust Environment and Infrastructure (RUST) August 1996 (Revised September 1998) report entitled "Keene Road Hydrogeologic Evaluation" Prepared for Waste Management Inc.

Groundwater velocities along typical gradients within each flow regime shown on Figure A-5 (the most recent water level map) were calculated from average gradient estimated from the Figure A-5 of 0.020 feet/foot and hydraulic conductivity value reported in a 2004 permit application for VLF² of 1.03 ft/day. Based on lithology, the porosity is estimated to be approximately 0.3.

The velocity of groundwater in the surficial aquifer beneath the site was calculated using a form of Darcy's law³, $V = k(dh/dl)/\theta$, where:

- V is the average velocity of groundwater (ft/day).
- k is the aquifer horizontal hydraulic conductivity (ft/day).
- dh/dl is the aquifer hydraulic gradient (ft/ft).
- θ is the effective porosity of the aquifer (unitless).

The velocity in the surficial aquifer is approximately 25 feet/ year.

Based on the lithologic descriptions of the surficial aquifer of the VLF, the 1.03 ft/day hydraulic conductivity reported in the 2004 permit application appears to be representative of the VLF. Todd⁴ reports that a typical value for a silty aquifer is approximately 0.08 meters per day (0.02 ft/day) and clayey aquifers have even lower hydraulic conductivities. Descriptions of the surficial aquifer lithology of the PRL include silty sands and clayey sands, indicating the effective horizontal conductivity of the surficial aquifer is consistent.

Intermediate Surficial Aquifer

The intermediate surficial aquifer is defined as the lower water-bearing zone of the undifferentiated sands and clayey sands that are part of the Hawthorn Group. Water table maps of this aquifer were prepared by SCS from intermediate surficial well data for each of the sampling events (Figures A-6 through A-10, Appendix A). Groundwater flow within the intermediate surficial aquifer beneath the VLF apparently consists of multiple flow configurations, as indicated by the groundwater flow direction arrows on Figure A-10. Groundwater entering from the site's western boundary flows east and northeast towards a slight hydraulic depression on the site's northern boundary. A portion of the groundwater enters near the northeast corner and moves to the south and southwest. This groundwater flow configuration is caused by a contrast of groundwater flow conditions from the overlying shallow surficial aquifer and lateral inflow from the intermediate surficial aquifer from outside the VLF.

Floridan Aquifer

Due to the limited number of "FL" zone wells for the site, potentiometric maps were not prepared for the Floridan aquifer. Regional potentiometric maps for the Floridan aquifer indicate

2 Bishop & Buttrey, Inc., May 2004 report titled "Application for Keene Road Disposal Class III Landfill Expansion"

3 Lohman, S. W., "Ground-Water Hydraulics." Geological Survey Professional Paper 78, 1972, pp.10-11.

4 Todd, David Keith. Groundwater Hydrology. John Wiley & Sons, Inc., New York. 1980, p. 71.

that flow in the aquifer at the VLF is towards the northeast. This is confirmed by the water levels observed at the VLF at Floridan aquifer groundwater monitoring wells MW-FL1 and MW-FL3 (see Figure A-13, Appendix A).

Aquifer Hydraulic Relationships

Updated hydrographs depicting the groundwater elevations within each well for each sampling event over the monitoring period are included in Appendix A. Hydrographs are included that show the elevations of water levels over time for:

- Clusters of monitoring wells to show vertical relationships between potentiometric head levels.
- Upper surficial aquifer and lower surficial aquifer wells.

There are seven well pairs that were used to provide data for the comparison of the upper surficial aquifer to the lower surficial aquifer on the site, and one well pair that was used to provide data for the comparison of the lower surficial aquifer to the Floridan aquifer as listed below. Hydrographs for these well pairs can be used to assess the potential for vertical flow of groundwater between the upper and lower surficial aquifers for wells located in pairs. The presence of an upward or downward gradient between well pairs does not indicate flow between the wells, but demonstrates the different potentiometric heads and the potential for flow.

**Table 2-1. Vertical Hydraulic Pairs
at the Vista Landfill**

Vertical Hydraulic Pairs			
Vertical Pair (Lower/Upper)	Location	Difference in Potentiometric Levels During June 2013	Gradient Direction
MW-1B/MW-1A	Northeast	11.52	Upward
MW-2B/MW-2AR	North Center	1.35	Downward
MW-3B/MW-3A	South Center	0.01	Upward
MW-FL1/MW-3B	South Center	0.01	Upward
MW-4B/MW-4A	South Center	1.04	Upward
MW-5B/MW-5A	Southeast	4.02	Downward
MW-6BR/MW-6AR	West	0.01	Upward
MW-7B/MW-7A	East Northeast	12.79	Downward

3 WATER MONITORING PROGRAM

The water monitoring program consists of monitoring the surficial aquifer groundwater, Floridan aquifer groundwater, and leachate (December 2011). E-mail correspondence dated September 25, 2012, from Kim Rush, FDEP, granted approval to remove annual leachate sampling and analysis from the site requirements per the Chapter 62-701, FAC, rule change. Leachate sampling was terminated accordingly.

Across the Vista Landfill, the surficial and Floridan aquifer groundwater currently are monitored at eighteen locations. The surficial aquifer is monitored in two zones: the shallow zone ("A" wells) and the intermediate zone ("B" wells). The Floridan aquifer is monitored by the "FL" wells, with the exception of MW-FL2R. Based on well logs and similar water levels to surficial aquifer intermediate zone wells, MW-FL2R appears to be installed in a deep portion of the surficial aquifer deep zone, possibly in a relict karst feature.

Well locations for each monitored zone are shown on Figure 1-2. The monitoring wells and respective aquifers for each monitored zone are listed in Table 3-1. The construction details for the eighteen active wells comprising the monitoring system are included in Table 3-2.

Table 3-1. Active Surficial Aquifer and Floridan Aquifer Groundwater Monitoring Wells at the Vista Landfill

Surficial Aquifer Shallow Zone	Surficial Aquifer Intermediate Zone	Surficial Aquifer Deep Zone	Floridan Aquifer
Background Monitoring Wells			
MW-1A	MW-1B		
MW-2AR	MW-2B		
MW-6AR	MW-6BR		
MW-7A			
MW-8R			
Compliance Monitoring Wells			
MW-3A	MW-3B		MW-FL1
MW-4A	MW-4B		
MW-5A	MW-5B		
	MW-7B		
		MW-FL2R	
			MW-FL3

Note:

1. Wells listed in the same row are part of a cluster of wells.

TABLE 3-2. EXISTING MONITORING LOCATIONS AND CONSTRUCTION DETAILS, VISTA LANDFILL, APOPKA, FLORIDA

WACS ID	Water Quality Monitoring Site ID	Date Installed	Date Abandoned	Well Type	Aquifer Monitored	Top of Casing Elevation (NGVD)	Total Well Depth (Feet BLS)	Outer Casing Diameter/ Depth	Well Diameter	Screen Slot Size	Screen Length (feet)	Top of Screen (Feet BLS)	Bottom of Screen (Feet BLS)	Top of Screen (Feet NGVD)	Bottom of Screen (Feet NGVD)	Northing (NAD 1983)	Easting (NAD 1983)	Latitude (NAD 1983)	Longitude (NAD 1983)
19335	MW-1A ¹	4/20/2004	NA	BG	Shallow Surficial	109.47	69	NA	2	0.006	20	49	69	57	37	1565469.28	492550.11	28° 38' 21.30"	81° 30' 36.28"
19336	MW-1B	4/20/2004	NA	BG	Intermediate Surficial	109.53	96	NA	2	0.010	10	86	96	20	10	1565465.40	492545.32	28° 38' 21.27"	81° 30' 36.33"
ND	MW-2A	ND	1/15/2007	BG	Shallow Surficial	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
19337	MW-2AR	1/23/2007	NA	BG	Shallow Surficial	87.22	39.94	NA	2	0.006	10	29.44	39.44	59.91	49.91	1565481.98	491815.07	28° 38' 21.40"	81° 30' 44.53"
19338	MW-2B	4/22/2004	NA	BG	Intermediate Surficial	88.46	73	NA	2	0.006	10	63	73	20	10	1565471.82	491843.09	28° 38' 21.30"	81° 30' 44.21"
19339	MW-3A	4/13/2004	NA	CO	Shallow Surficial	92.87	56	NA	2	0.006	30	36	56	57	37	1564509.87	491522.95	28° 38' 11.76"	81° 30' 47.76"
19340	MW-3B	4/13/2004	NA	CO	Intermediate Surficial	93.06	83	NA	2	0.010	10	73	83	20	10	1564509.53	491514.75	28° 38' 11.76"	81° 30' 47.85"
19341	MW-4A	4/14/2004	NA	CO	Shallow Surficial	82.04	42	NA	2	0.006	20	22	42	57	37	1564505.59	491949.09	28° 38' 11.74"	81° 30' 42.98"
19342	MW-4B	4/14/2004	NA	CO	Intermediate Surficial	83.18	69	NA	2	0.006	10	59	69	20	10	1564505.16	491941.64	28° 38' 11.73"	81° 30' 43.06"
19343	MW-5A	4/14/2004	NA	CO	Shallow Surficial	81.86	40	NA	2	0.006	20	20	40	57	37	1564500.86	492441.55	28° 38' 11.71"	81° 30' 37.45"
19344	MW-5B	4/14/2004	NA	CO	Intermediate Surficial	81.27	67	NA	2	0.006	10	57	67	20	10	1564500.47	492433.39	28° 38' 11.71"	81° 30' 37.54"
ND	MW-6A	4/15/2004	1/12/2007	BG	Shallow Surficial	101.94	61	NA	2	0.010	20	41	61	57	37	ND	ND	ND	ND
19345	MW-6AR	1/30/2007	NA	BG	Shallow Surficial	104.11	69.37	NA	2	0.010	20	48.87	68.87	52.27	32.27	1565140.42	490793.55	28° 38' 17.97"	81° 30' 55.98"
ND	MW-6B	4/15/2004	1/12/2007	BG	Intermediate Surficial	101.98	88	NA	2	0.010	10	78	88	20	10	ND	ND	ND	ND
19346	MW-6BR	1/30/2007	NA	BG	Intermediate Surficial	103.99	88.58	NA	2	0.010	10	78.08	88.08	22.98	12.98	1565137.25	490795.56	28° 38' 17.94"	81° 30' 55.95"
19347	MW-7A	4/20/2004	NA	BG	Shallow Surficial	109.26	69	NA	2	0.006	20	49	69	57	37	1565230.04	492821.74	28° 38' 18.95"	81° 30' 33.22"
19348	MW-7B	4/19/2004	NA	CO	Intermediate Surficial	109.13	96	NA	2	0.01	10	86	96	20	10	1565222.30	492821.61	28° 38' 18.87"	81° 30' 33.22"
ND	MW-8	4/23/2004	1/12/2007	BG	Shallow Surficial	99.7	60	NA	2	0.006	10	50	60	47	37	ND	ND	ND	ND
19868	MW-8R	1/25/2007	NA	BG	Shallow Surficial	99.6	72.12	NA	2	0.006	10	61.62	71.72	35.05	25.05	1565489.06	490997.80	28° 38' 21.43"	81° 30' 53.70"
19879	MW-FL1	4/13/2004	NA	CO	Floridan	93.16	125	NA	2	0.010	10	115	125	-45	-35	1564509.43	491507.05	28° 38' 11.76"	81° 30' 47.94"
ND	MW-FL2	4/22/2004	1/15/2007	CO	Floridan	87.4	130	NA	2	0.006	10	120	130	-45	-35	ND	ND	ND	ND
19880	MW-FL2R	1/29/2007	NA	CO	Deep Surficial	86.76	129.95	6"/0' to 80'	2	0.006	10	119.45	129.45	-45.54	-35.54	1565501.29	491655.91	28° 38' 21.58"	81° 30' 46.32"
19881	MW-FL3	4/21/2004	NA	CO	Floridan	97.49	140	NA	2	0.010	10	130	140	-45	-35	1565463.35	492205.45	28° 38' 21.23"	81° 30' 40.15"
22828	L-1	NA	NA	CO	Leachate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND

Notes:

1. Survey Information was obtained from the May 25, 2007 Geosyntec Consultants Environmental Monitoring Location Map.
2. Well construction information obtained from the July 2004, Collinas Group, Inc., Groundwater Monitoring Well Installation Report, Buttrey Landfill Parcel.
3. Well construction information obtained from the March 15, 2007, Professional Service Industries, Inc., Monitoring Well Completion and Well Abandonment Report.
4. NGVD = National Geodetic Vertical Datum of 1929.
5. NAD 1983 = North American Datum of 1983.
6. WACS = State Water Assurance Compliance System.
7. BLS = Below Landsurface.
8. NA = Not Applicable.
9. BG = Background.
10. CO = Compliance.
11. ND = Data not available.
12. OT = Other.
13. ID = Identification.

The current permit requires semi-annual sampling of the background and compliance monitoring wells for the field and laboratory parameters listed below.

Field Parameters

- Static water level before purging
- Specific conductivity
- pH
- Dissolved oxygen
- Turbidity
- Temperature
- Color and sheens by observation

Laboratory Parameters

- Total ammonia-nitrogen
- Chlorides
- Iron
- Mercury
- Nitrate
- Sodium
- Total dissolved solids (TDS)
- Parameters listed in 40 CFR (Code of Federal Regulations) Part 258, Appendix I

Additional Parameters

During the initial background monitoring event prior to the placement of waste, some parameters exceeded the Primary Drinking Water Standards (PDWS) or Secondary Drinking Water Standards (SDWS) as listed in Chapter 62-550, FAC. These included the following parameters, which were added to the semi-annual monitoring:

- Aluminum
- Gross Alpha
- Manganese

Semi-annual reporting of the groundwater sampling results is performed in accordance with the VLF MPIS.

LEACHATE MONITORING PROGRAM

E-mail correspondence dated September 25, 2012, from Kim Rush, FDEP, granted approval to remove annual leachate sampling and analysis from the site requirements per the Chapter 62-701, FAC, rule change. Leachate sampling was terminated accordingly. The December 2011

Leachate was monitored at the site at the leachate storage tank (L-1). The permit required the annual sampling of L-1 for the field and laboratory parameters listed below.

Field Parameters

- Specific conductivity
- pH
- Dissolved oxygen
- Turbidity
- Temperature
- Color and sheens by observation

Laboratory Parameters

- Total ammonia-nitrogen
- Total Alkalinity (as mg/L CaCO_3)
- Chlorides
- Iron
- Mercury
- Nitrate
- Sodium
- Total dissolved solids (TDS)
- Biochemical Oxygen Demand (BOD₅)
- Chemical Oxygen Demand (COD)
- Parameters listed in 40 CFR (Code of Federal Regulations) Part 258, Appendix II

ZONE OF DISCHARGE

The zone of discharge (ZOD) for the landfill is defined in the permit as follows: “The zone of discharge for the facility shall be a three dimensional volume, defined in the horizontal plane as extending 100 feet from the edge of the solid waste deposit, or to the property boundary, whichever is less, as depicted in Attachment B of the Monitoring Plan Implementation Schedule (Exhibit I) of this permit, and defined in the vertical plane as extending from the top of the ground to the bottom of the screen of the lower surficial monitoring wells.”

Table 3-3 lists monitoring wells and approximate distances to the edge of the horizontal ZOD. The table also includes each well’s distance from the edge of waste.

Table 3-3. Locations of Monitoring Wells Relative to the Horizontal Zone of Discharge

Well No.	Purpose	ZOD Description Width, Feet	Monitoring Well Distance to ZOD (Feet)	Monitoring Well Distance to Edge of Waste (Feet)
MW-1A	Background	100	45	55
MW-1B	Background	100	49	51
MW-2AR	Background	100	37	63
MW-2B	Background	100	49	51
MW-3A	Compliance	PB	12	33
MW-3B	Compliance	PB	10	35
MW-4A	Compliance	PB	12	34
MW-4B	Compliance	PB	9	37
MW-5A	Compliance	PB	11	35
MW-5B	Compliance	PB	9	37
MW-6AR	Background	100	37	67
MW-6BR	Background	100	36	64
MW-7A	Background	PB	6	37
MW-7B	Compliance	PB	7	36
MW-8R	Background	100	40	60
MW-FL1	Compliance	100	10	36
MW-FL2R	Compliance	100	21	79
MW-FL3	Compliance	100	54	46

Notes:

1. Distances are measured to within +/- 10 feet and are based on the survey maps.
2. The 100 ft value in the "ZOD Description" indicates the ZOD is 100 feet from the edge of waste and lies within the property boundary.
3. The PB value in the "ZOD Description" indicates the ZOD is less than 100 feet from the edge of waste and lies at the property boundary.

GROUNDWATER QUALITY

Water quality data for the groundwater parameters monitored during this reporting period were evaluated in accordance with Chapter 62-701.510(9)(b), FAC. Selected data tables and graphs are presented to support the evaluation of the adequacy of the water quality monitoring frequency and sampling locations.

Appendix B includes tables listing water quality detections and exceedances. In accordance with Chapter 62-701, FAC, groundwater results were compared to primary drinking water standard (PDWS) and secondary drinking water standard (SDWS) listed in Chapter 62-550. For this technical report, groundwater cleanup target levels (GCTLs) in Rule 62-777, FAC, were used for constituents that do not have a PDWS or SDWS as a screening tool for potential anomalies in the

concentration data that may require further consideration or review. Exceedances of one or more parameters over the previous 24 months were evaluated in accordance with the permit.

Graphs of water quality data and water quality trends for selected detected constituents are included in Appendix C. Graphs are provided for constituents that frequently exceeded their respective drinking water standard and/or exhibited significant trends (by visual review of the graphs, not statistical analysis) in their concentrations over time. Laboratory analytical data from the 2004 background monitoring events and from 2008 through June 2013 semi-annual events, were used in the graphs of water quality data. The following section discusses exceedances and includes related trends, where appropriate. The relationship between total dissolved solids and specific conductance is presented following the exceedances discussion.

Metals Exceedances and Trends

Metals with concentrations in excess of applicable PDWS, SDWS, and/or GCTLs for at least one sampling event in the 24-month period of record include:

- Aluminum
- Iron
- Manganese

These exceedances are discussed below and are based on the exceedance tables included in Appendix B. Applicable trends are discussed based on the time series plots in Appendix C.

Aluminum

The FDEP SDWS of 200 micrograms per liter ($\mu\text{g/L}$) for aluminum was exceeded at surficial and Floridan aquifer wells including the background wells, with the exception of MW-1B, MW-4A, MW-4B, and MW-7A. This indicates that aluminum concentrations are naturally elevated in this area and do not appear to be related to landfill operations.

Trend charts are shown on Figures C-1 through C-3, Appendix C, for aluminum groundwater concentrations. In each aquifer, aluminum results generally have either remained the same or decreased relative to the initial 2004 background sampling. VLF does not appear to be adversely impacting the aluminum concentration in the local groundwater.

Iron

The concentration of iron in the groundwater ranged from undetected to 1,400 $\mu\text{g/L}$ in the surficial aquifer and undetected to 380 $\mu\text{g/L}$ in the Floridan aquifer. The SDWS of 300 $\mu\text{g/l}$ for iron was exceeded at MW-2AR, MW-2B, MW-3A, MW-5B, MW-6AR-, MW-6BR, MW-7B, MW-8R, MW-FL1, and MW-FL2R. Concentrations ranges for these wells are consistent with site data for iron. Trend charts are shown on Figures C-4 through C-6, Appendix C show iron concentrations decreasing or generally staying constant. Based on the background levels of iron, the iron exceedances are associated with naturally occurring iron and do not appear to be a concern at this time.

Manganese

The FDEP SDWS of 50 µg/L for manganese was exceeded at background well MW-6BR during the June 2011 monitoring event indicating that manganese concentrations are naturally elevated in the area. Subsequent sampling concentrations have been below the SDWS.

Organic Parameters Exceedances and Trends

Organic parameters were not detected above their respective PDWS, SDWS, and GCTLs.

Inorganic Parameters Exceedances and Trends

Inorganic analytes with concentrations in excess of applicable PDWS, SDWS, and/or GCTLs for at least one sampling event in the 24-month period of record include:

- Chlorine Dioxide
- Dissolved Oxygen Percent Saturation
- Nitrate
- pH

These parameters are discussed below.

Chlorine Dioxide

Chlorine dioxide was collected as part of the City of Apopka permit renewal requirements during the December 2012 monitoring event. During the December 2012 monitoring event, the FDEP PDWS of 0.8 mg/L for chlorine dioxide was exceeded at background wells MW-2B (1.34 mg/L), MW-7A (0.9 mg/L), and MW-8R (2.7 mg/L). The chlorine dioxide exceedances at wells MW-2B, MW-7A, and MW-8R are not due to the landfill. These wells are located hydraulically up gradient to the waste. Chlorine dioxide exceedances are believed to be related to nearby RIBs facilities.

Dissolved Oxygen Percent Saturation

The Dissolved Oxygen Percent Saturation exceeded the recommended guidelines at every monitoring well location except MW-1B, MW-2B, MW-4A, MW-5B, and MW-FL3 for at least one sampling event during this reporting period. The dissolved oxygen concentrations are thought to be related to natural background conditions (e.g., relatively high rainfall infiltration rates) since low flow sampling techniques are utilized at the site and the elevated oxygen saturations were present prior to waste placement.

Nitrate

The FDEP PDWS of 10 mg/L for nitrate was exceeded at monitoring wells MW-1A, MW-6AR, and MW-7A. Trend chart is shown on Figure C-7, Appendix C, for nitrate groundwater concentrations. These are background monitoring wells and indicate that exceedances are not due to landfill operations. Nitrate exceedances are believed to be related to RIB Facilities, which

have been previously documented as potential sources for nitrates: Special Publication SJ2006-SP3, *Estimates Of Upper Floridan Aquifer Recharge Augmentation Based On Hydraulic And Water-Quality Data (1986-2002) From The Water Conserv II RIB Systems, Orange County, Florida* (<http://sjr.state.fl.us/programs/outreach/pubs/techpubs/pdfs/SP/SJ2006-SP3.pdf>).

pH

The majority of the background and detection groundwater monitoring wells had pH concentrations below the FDEP SDWS range of 6.5 to 8.5 units for at least one sampling event. Trend analyses for pH measurements (Figures C-8 through C-10, Appendix C) indicate a wide range of concentrations with increasing and decreasing trends occurring in various wells. Low groundwater pH in this region is the result of low pH in precipitation, rapid recharge, and little buffering capacity of the surficial sands. The pH levels observed at VLF are characteristic of the ground water in this region of Florida.

The SDWS range was exceeded at MW-FL2R. This compliance monitoring well showed elevated pH values for most sampling events with the highest result at 10.84 units in the June 2011 sampling event. The high pH indicates that grout is in the sand pack and may be due to improper well construction or the abandonment of MW-FL2; however, the groundwater analytical data show that the problem only affects the pH, and that the overall geochemistry is similar to the other wells. Therefore, this well is suitable as a compliance well with the understanding that the pH may be elevated and is considered an artifact of well construction.

Total Dissolved Solids/Specific Conductance Correlation

A simple ratio was calculated to evaluate the correlation between TDS and specific conductance (SCond) data. The ratio between TDS and SCond may be evaluated using standard water/wastewater analysis methods to assess the accuracy of the laboratory methods. A generally acceptable correlation is a TDS to SCond ratio of 0.55 to 0.70. Ratios significantly outside this range may indicate that one or both measurements are suspect.

A summary of the TDS/SCond ratios for the reporting period is presented in Table 3-4. The ratios are generally within the acceptable range or are slightly outside the range. Overall, there are relatively few significant deviations. These deviations are most likely due to differences in field sampling techniques and/or calibration errors and do not affect the quality of the reported data.

Table 3-5. Total Dissolved Solids/Specific Conductivity Ratios

Well ID	June 2011	December 2011	June 2012	December 2012	June 2013
MW-1A	0.8	0.64	0.81	0.61	0.69
MW-1B	0.63	0.53	0.58	0.62	0.62
MW-2AR	---	0.56	---	1.23	0.88
MW-2B	0.53	0.51	0.52	0.66	0.53
MW-3A	0.77	0.72	0.74	0.56	0.53
MW-3B	0.83	0.69	0.66	0.92	0.45
MW-4A	0.75	0.85	0.73	0.50	0.33
MW-4B	0.84	0.90	0.12	0.73	0.48
MW-5A	0.73	0.69	0.70	0.89	0.23
MW-5B	0.59	0.55	0.59	0.67	0.50
MW-6AR	0.73	0.64	0.82	0.58	0.67
MW-6BR	0.61	0.63	0.53	0.57	0.51
MW-7A	0.84	0.64	0.87	0.62	0.78
MW-7B	0.62	0.52	0.62	0.65	0.58
MW-8R	0.56	0.60	0.58	0.82	0.56
MW-FL1	0.65	0.66	0.58	0.68	0.56
MW-FL2R	0.54	0.57	0.52	0.57	0.40
MW-FL3	0.57	0.70	0.77	0.64	0.60

Notes:

1. --- = Monitoring well not sampled due to low water level conditions.
2. Green highlight indicates data significantly outside the typical range (i.e., arbitrarily set at less than half the lower value or more than twice the upper value of the range).

LEACHATE QUALITY

The previous permit included annual leachate monitoring at the site of the leachate storage tank, L-1. The current permit does not require annual leachate monitoring which ceased in September 2012. The leachate data provided for one sampling event which was evaluated in accordance with Chapter 62-701.510(9)(b). Appendix B includes a table listing the leachate quality detections.

Results of the laboratory analysis of the leachate samples did not indicate detections in excess of the concentrations listed in Title 40 Code of Federal Regulations (CFR) Part 261.24.

ERRATIC AND POORLY CORRELATED DATA

No other erratic or poorly correlated data were observed in the water quality substantive analyses.

4 ADEQUACY OF MONITORING PROGRAM

This section assesses the adequacy of the monitoring program in observing the potential effects of the VLF operations on groundwater.

SURFICIAL AQUIFER MONITORING

The existing monitoring well locations were selected based on groundwater flow direction. Locations were selected to monitor hydraulically up-gradient groundwater and groundwater that potentially could be affected by landfill operations.

Table 3-2 lists monitoring wells and piezometers at the VLF and the aquifers the wells monitor. Monitoring wells listed under the “Type” column as “DE”, “CO”, and “BG” are included during the routine semi-annual monitoring events. This section discusses the adequacy of well location for horizontal and vertical monitoring and the adequacy of the semi-annual sampling frequency.

Monitoring Well Geographic Location

Geographic location is guided by the direction of lateral groundwater flow in the aquifers beneath the VLF. Figures A-5 and A-10 are thought to be representative of upper surficial aquifer and intermediate surficial aquifer flow, respectively, as represented by the flow arrows. Typically, background wells would be located at the hydraulically up gradient end of the flow arrows with compliance wells located at the down gradient end within or at the edge of the ZOD. The following discusses the locations of monitoring wells in each aquifer.

Upper Surficial Aquifer Well Location

Currently, there are five upper surficial aquifer background monitoring wells at the VLF (MW-1A, MW-2AR, MW-6AR, MW-7A, and MW-8R). These monitoring wells are located hydraulically up gradient from the landfill and appear to provide sufficient upper surficial aquifer background data for the VLF.

The geographic location of the detection wells appears to be adequate and effective in monitoring groundwater quality variations. The screen locations at each of the upper surficial aquifer locations appear to adequately monitor the upper surficial aquifer for water quality purposes.

Intermediate Surficial Aquifer Well Location

Currently, there are three lower surficial aquifer background monitoring wells at the PRL (MW-1B, MW-2B, and MW-6BR). These monitoring wells are located up-gradient from the landfill and appear to provide sufficient intermediate surficial aquifer background data for the VLF.

It is SCS’ understanding that the vertical ZOD is defined as extending from the top of the ground to the bottom of the screen of the lower surficial monitoring wells. The screen locations at each

of the locations appear to adequately monitor the middle and lower zones of the surficial aquifer for water quality purposes.

Floridan Aquifer Well Location

Currently, there are no regulatory-designated Floridan aquifer background monitoring wells at the VLF. Based on well logs and similar water levels to surficial aquifer intermediate zone wells MW-FL2R appears to be installed in a deep portion of the surficial aquifer intermediate zone, possibly in a relic karst feature. The screen locations at monitoring wells MW-FL1 and MW-FL3 appear to adequately monitor the upper Floridan aquifer for water quality purposes.

Monitoring Frequency

Groundwater monitoring frequency for the VLF is semi-annual and appears to provide sufficient data to evaluate trends in concentrations and plan appropriate evaluation monitoring where necessary. There have been no findings that indicate a need to modify the routine sampling frequency. The average groundwater velocity was calculated to be approximately 25 feet/year. Consequently, VLF will maintain the current groundwater quality monitoring frequency.

Monitoring Parameters

Current routine monitoring parameters include various volatile organic, metals, and inorganic constituents required by Chapter 62-550 and 62-701 and expected waste characteristics. There have been no findings or observations that indicate a need to modify the routine parameter list. Consequently, the VLF will maintain the current groundwater quality monitoring parameters.

LEACHATE MONITORING

E-mail correspondence dated September 25, 2012, from Kim Rush, FDEP, granted approval to remove annual leachate sampling and analysis from the site requirements per the Chapter 62-701, FAC, rule change. Leachate sampling was terminated accordingly.

APPENDIX A

WATER TABLE MAPS AND HYDROGRAPHS

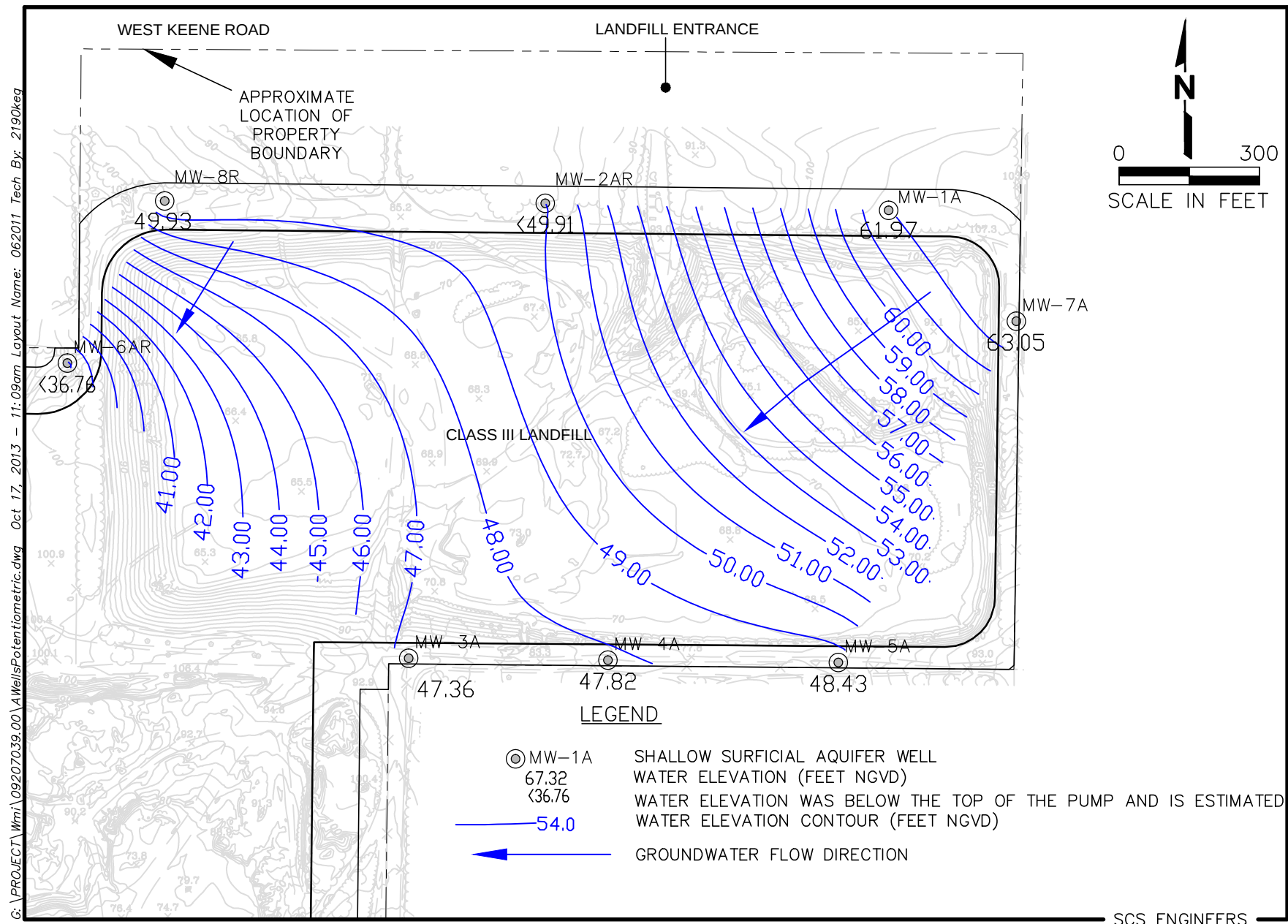


Figure A-1. June 2011 Shallow Surficial Aquifer Water Level Map, Vista Landfill, Apopka, Florida.

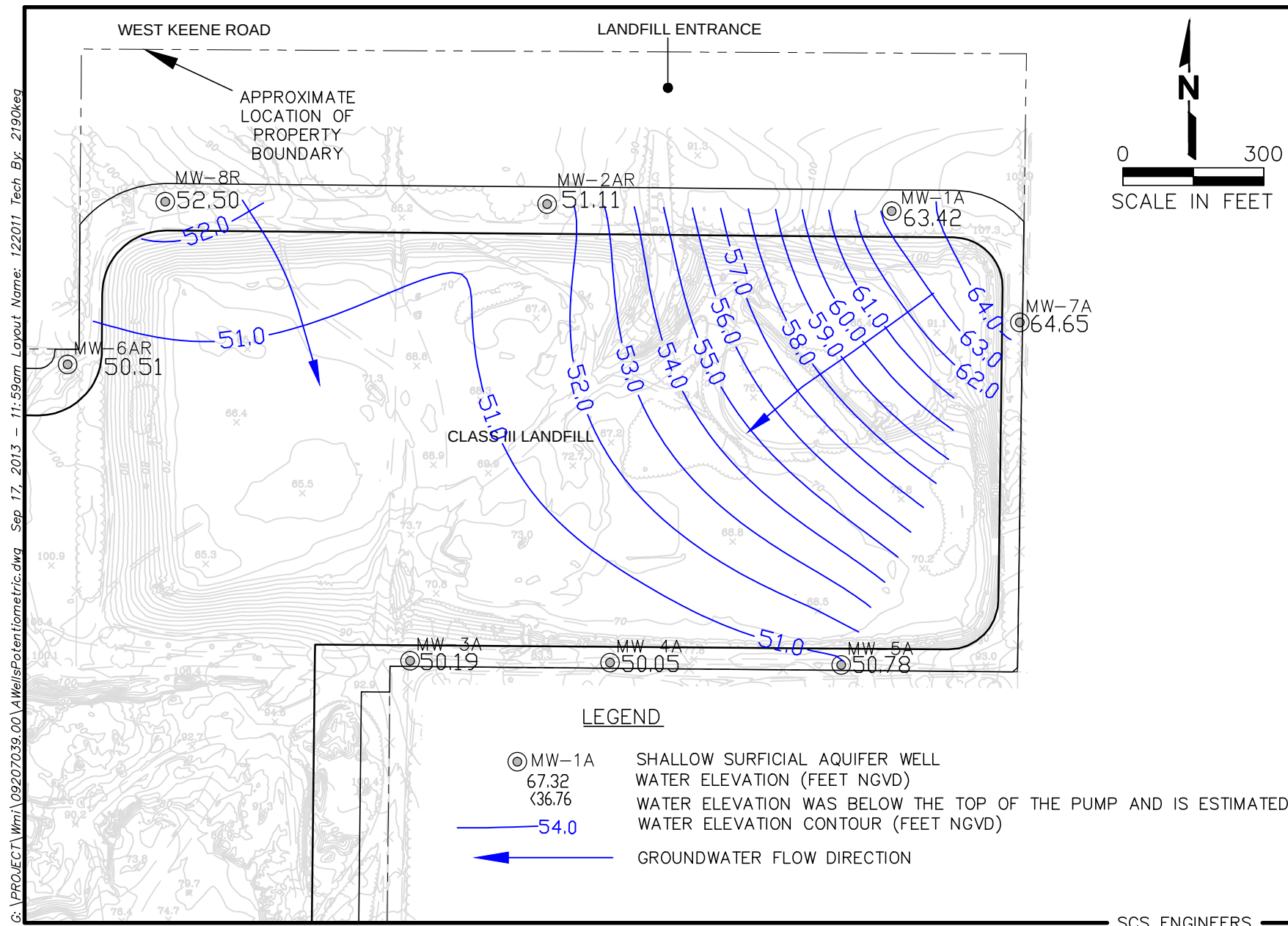


Figure A-2. December 2011 Shallow Surficial Aquifer Water Level Map, Vista Landfill, Apopka, Florida.

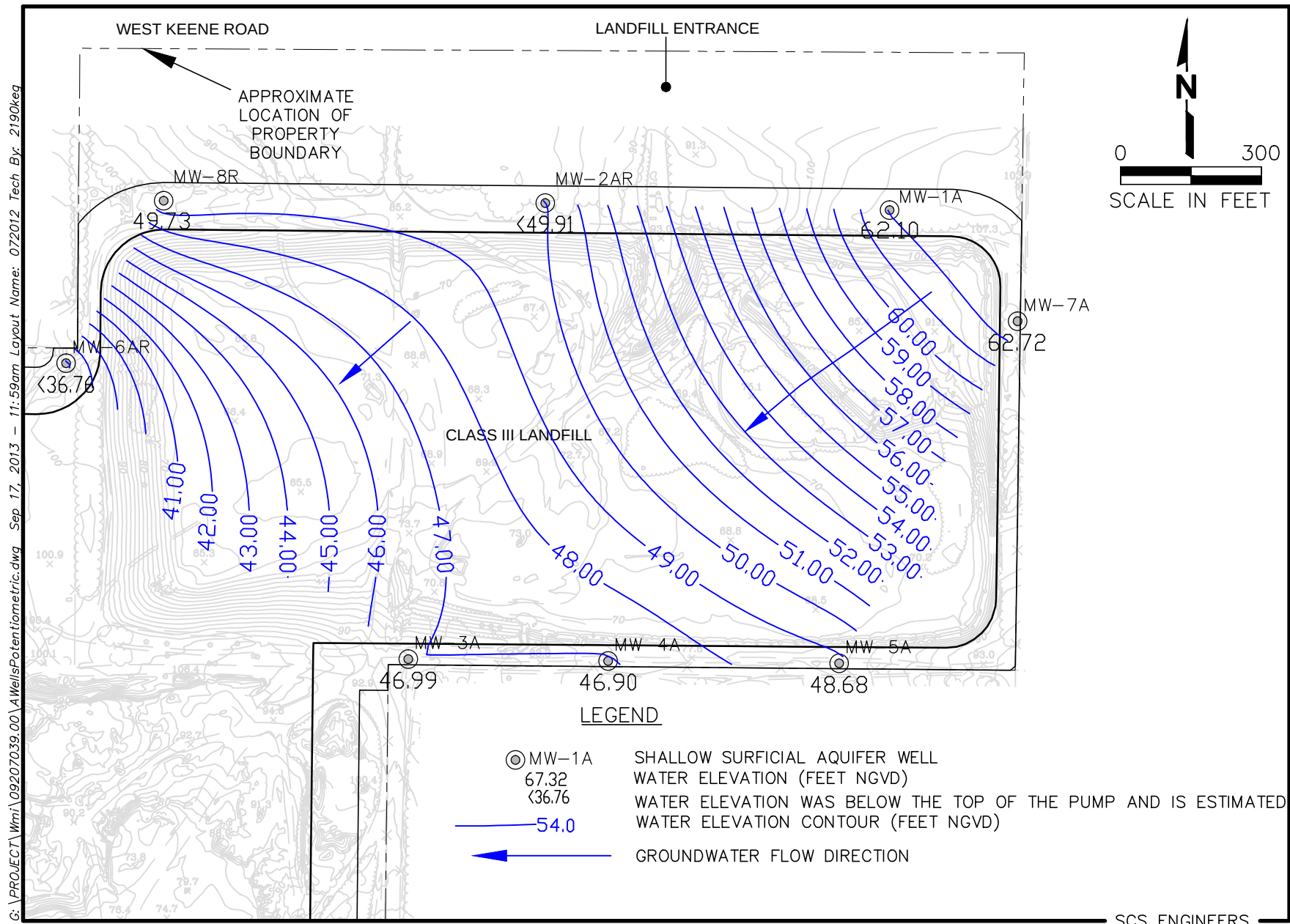


Figure A-3. July 2012 Shallow Surficial Aquifer Water Level Map, Vista Landfill, Apopka, Florida.

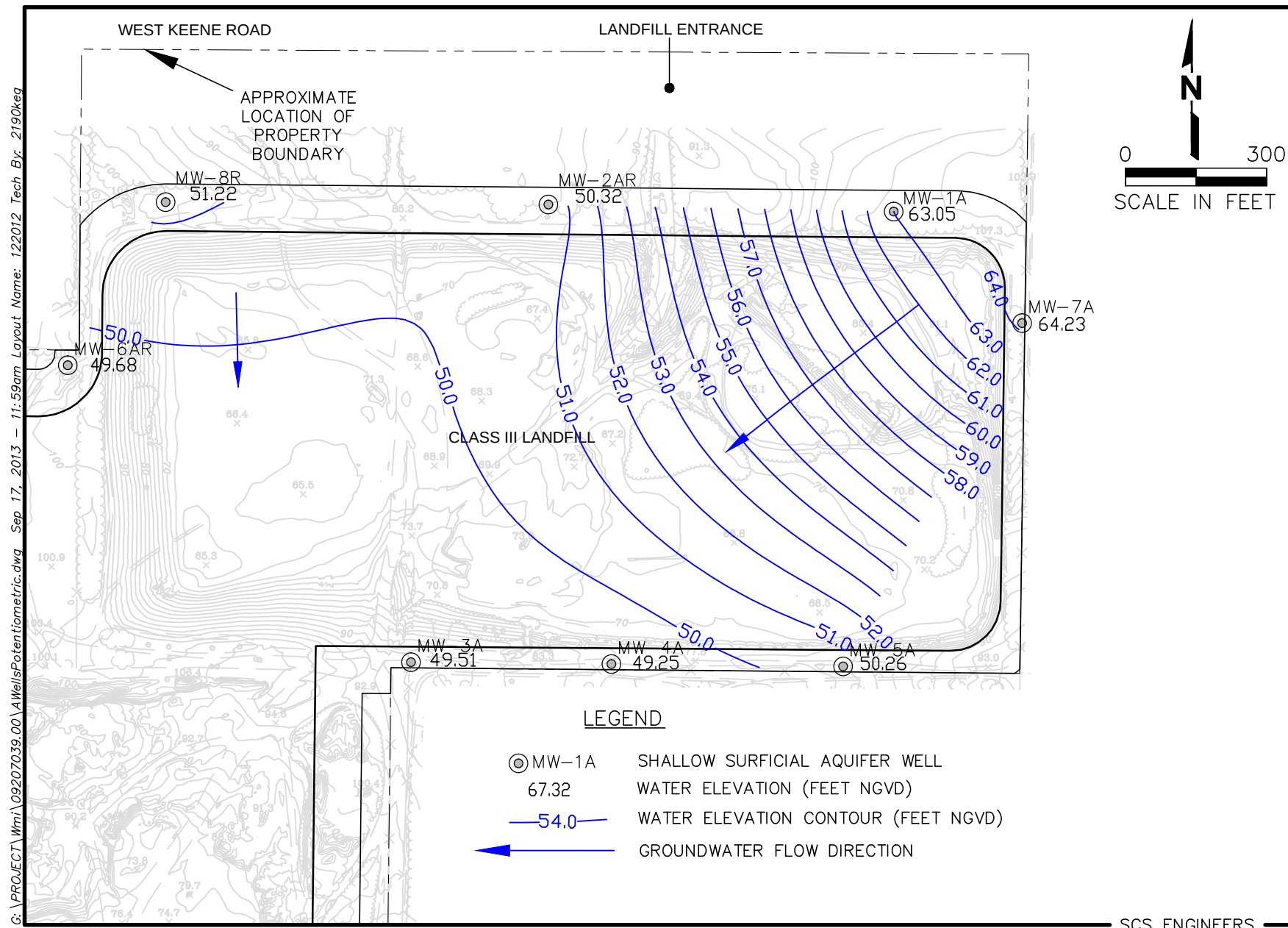


Figure A-4. December 2012 Shallow Surficial Aquifer Water Level Map, Vista Landfill, Apopka, Florida.

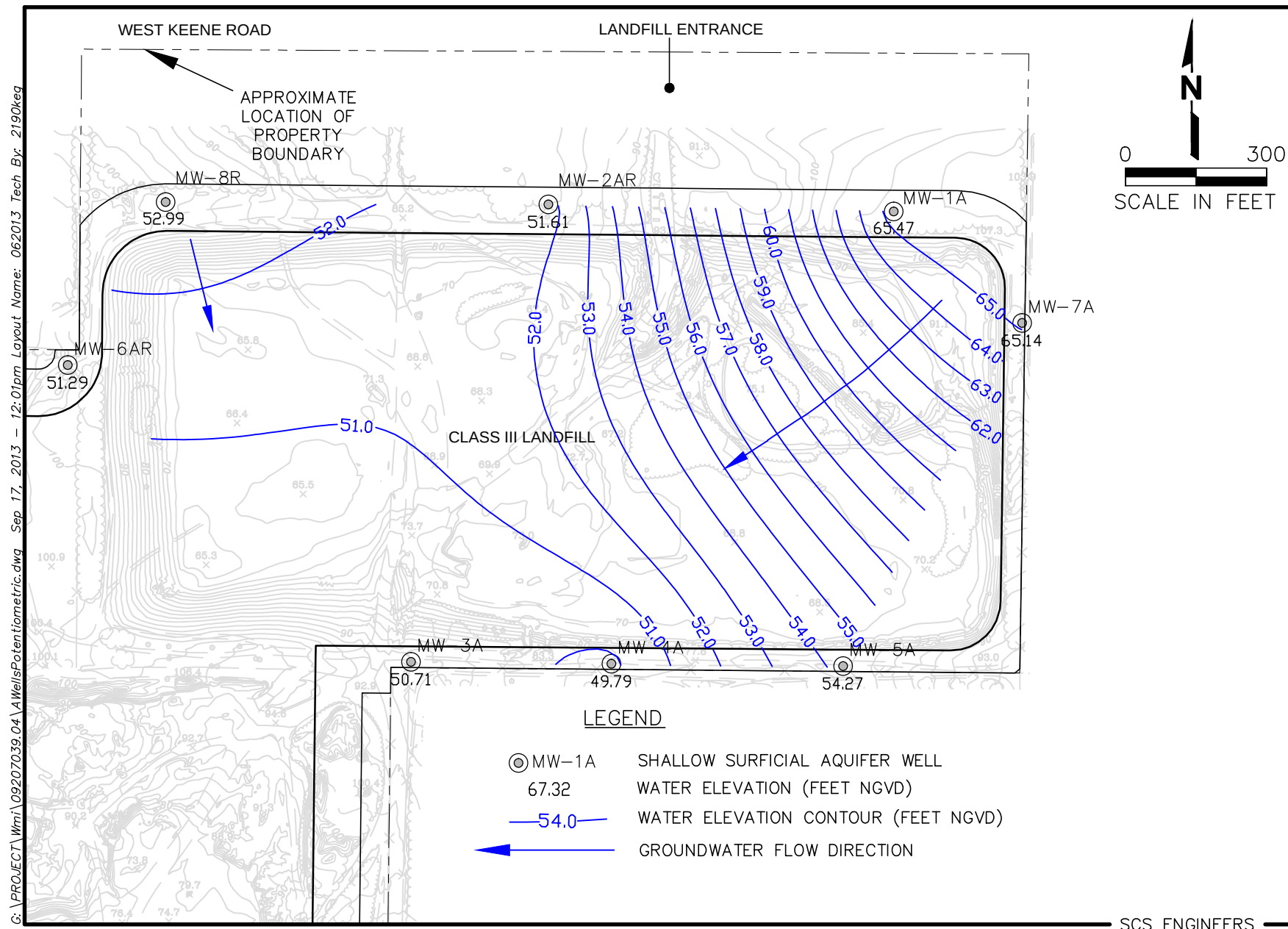


Figure A-5. June 2013 Shallow Surficial Aquifer Water Level Map, Vista Landfill, Apopka, Florida.

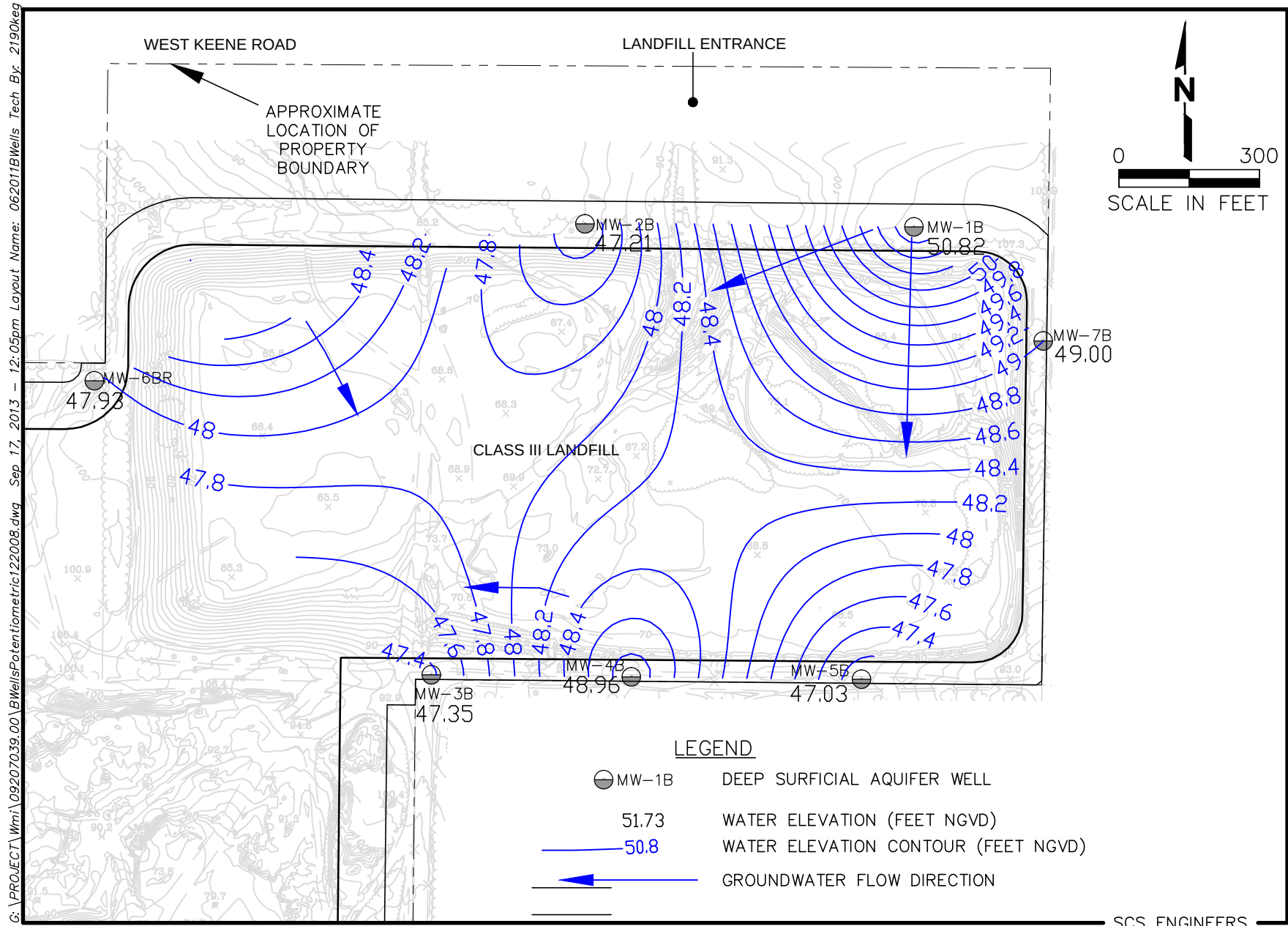


Figure A-6. June 2011 Intermediate Surficial Aquifer Potentiometric Surface Map, Vista Landfill, Apopka, Florida.

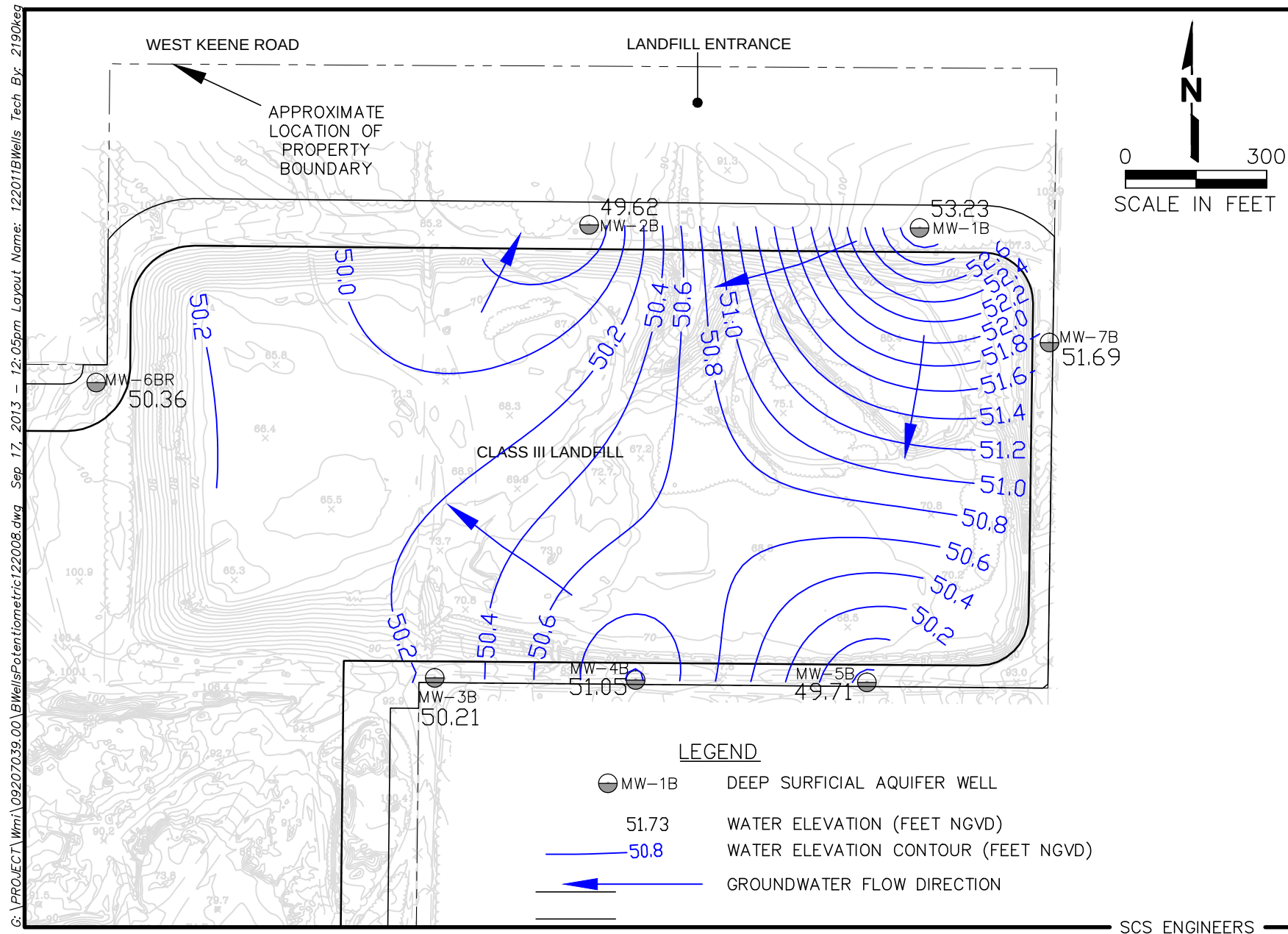


Figure A-7. December 2011 Intermediate Surficial Aquifer Potentiometric Surface Map, Vista Landfill, Apopka, Florida.

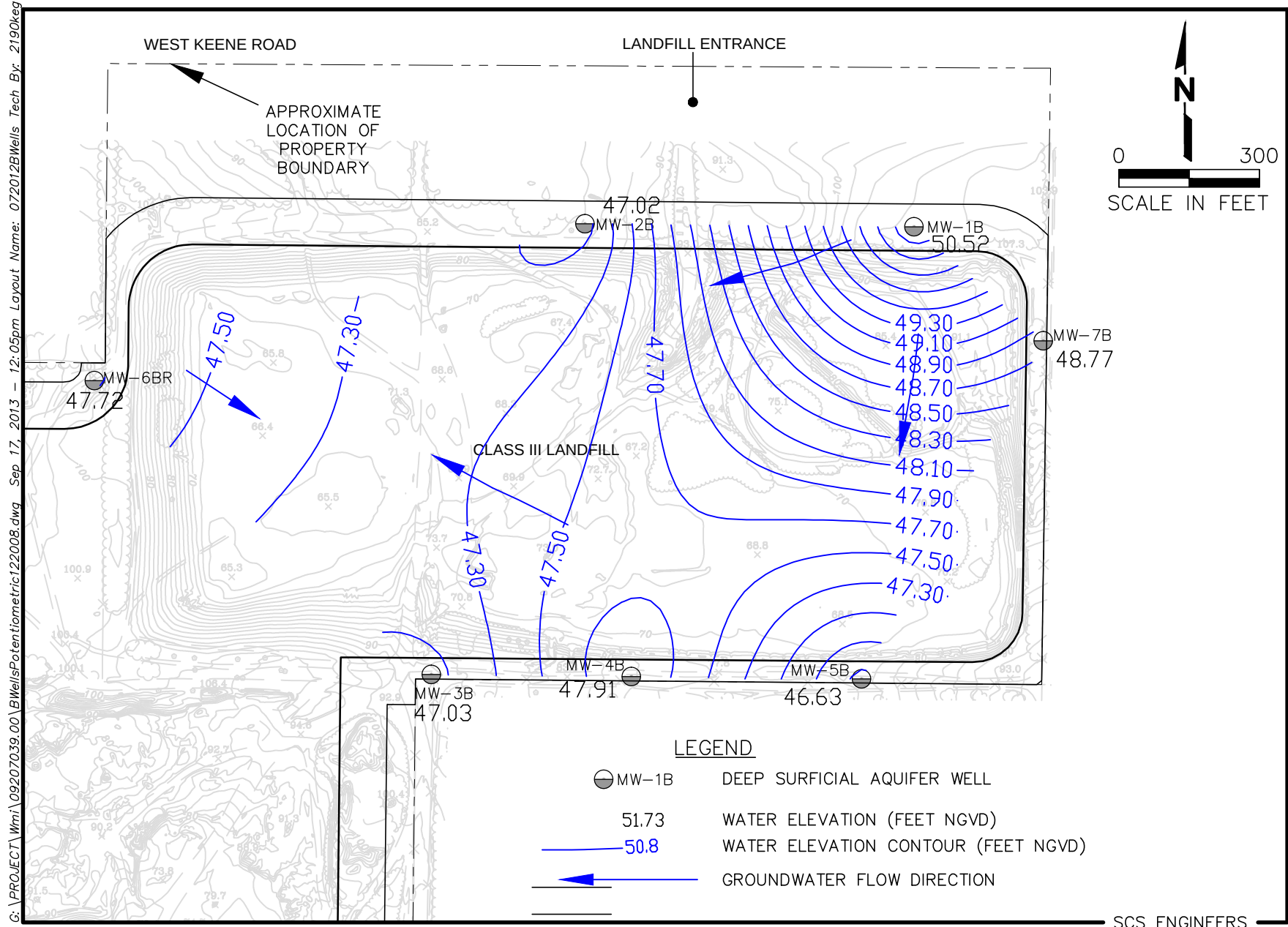


Figure A-8. July 2012 Intermediate Surficial Aquifer Potentiometric Surface Map, Vista Landfill, Apopka, Florida.

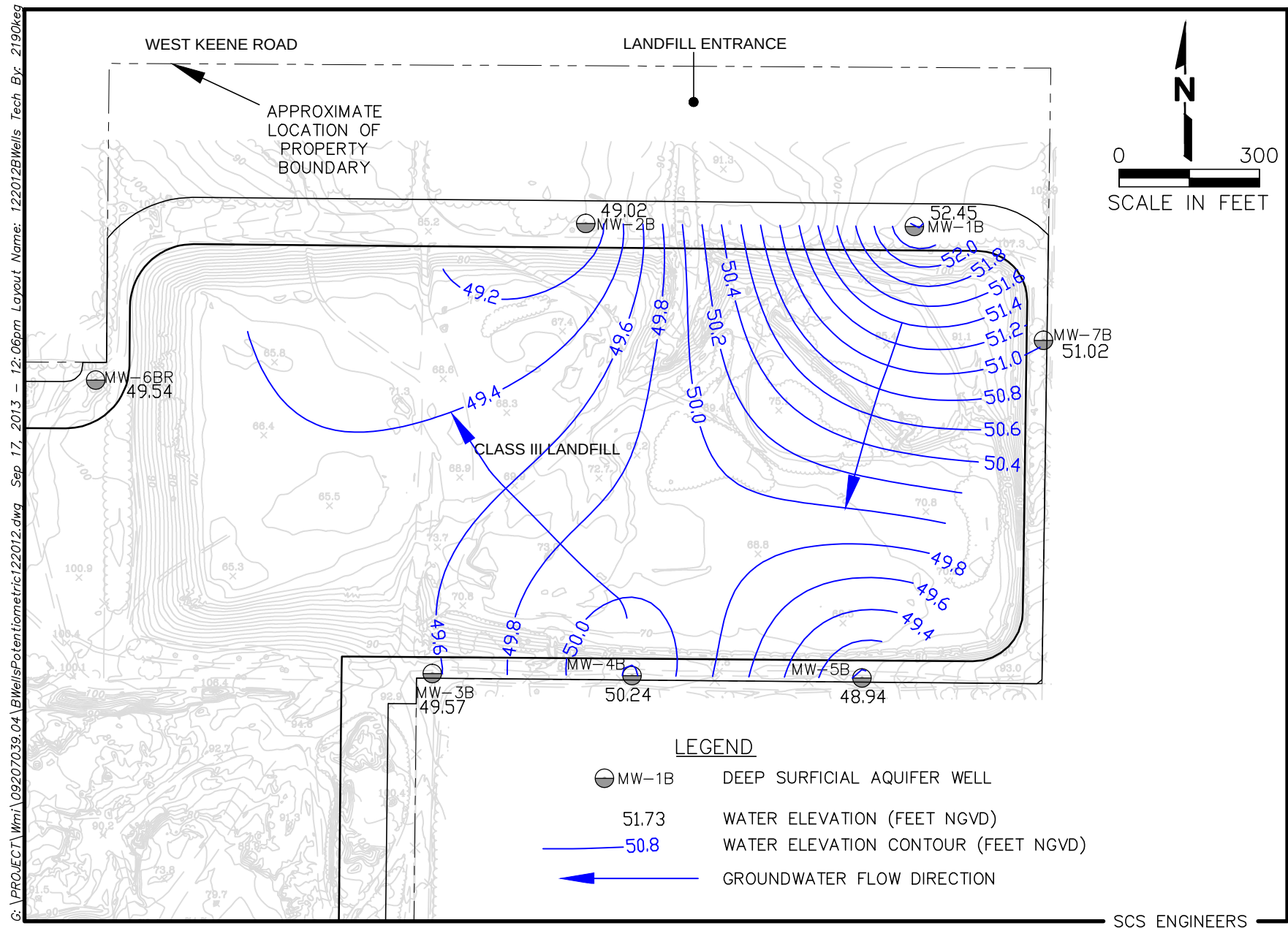


Figure A-9. December 2012 Intermediate Surficial Aquifer Potentiometric Surface Map, Vista Landfill, Apopka, Florida.

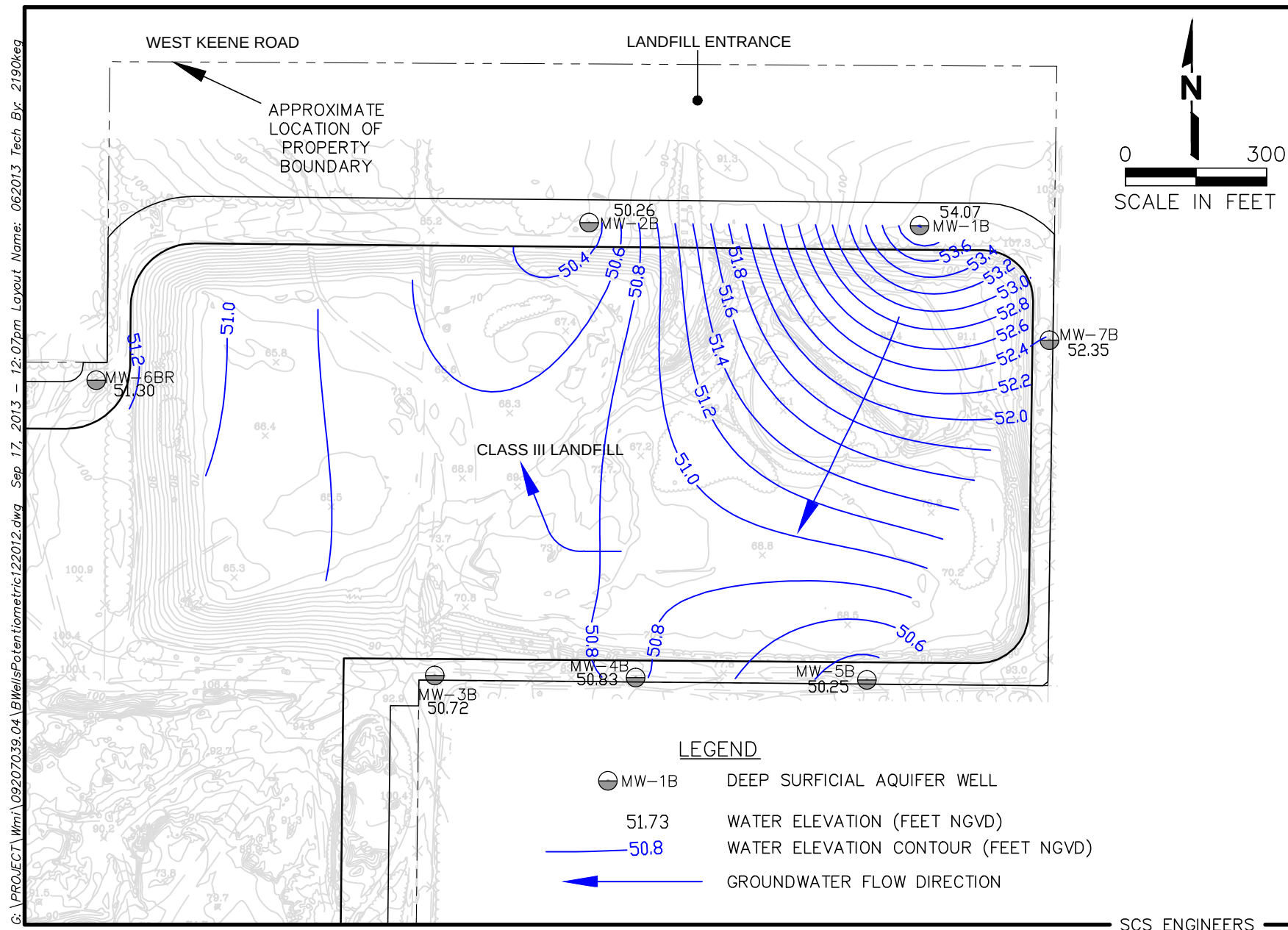
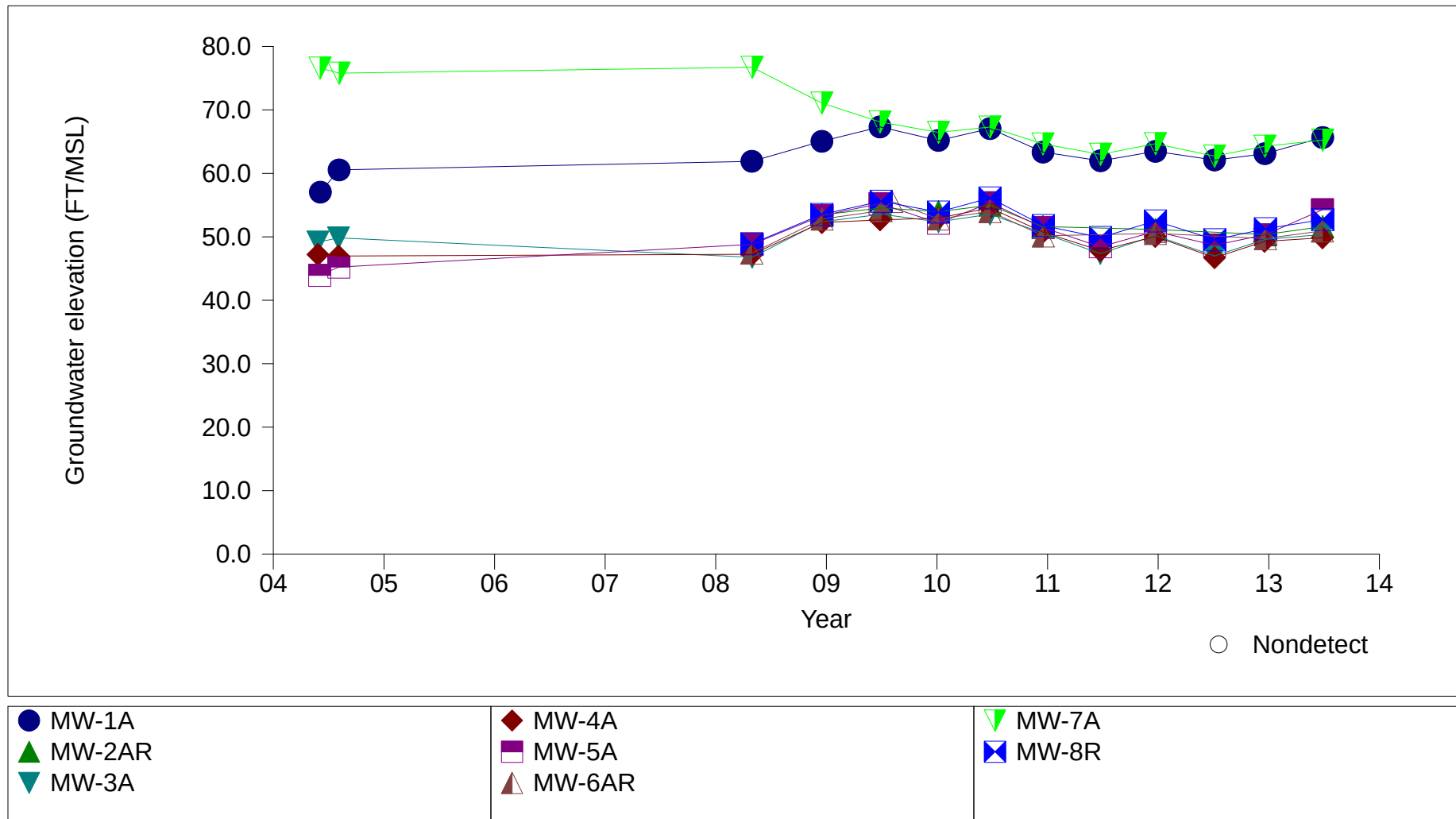


Figure A-10. June 2013 Intermediate Surficial Aquifer Potentiometric Surface Map, Vista Landfill, Apopka, Florida.

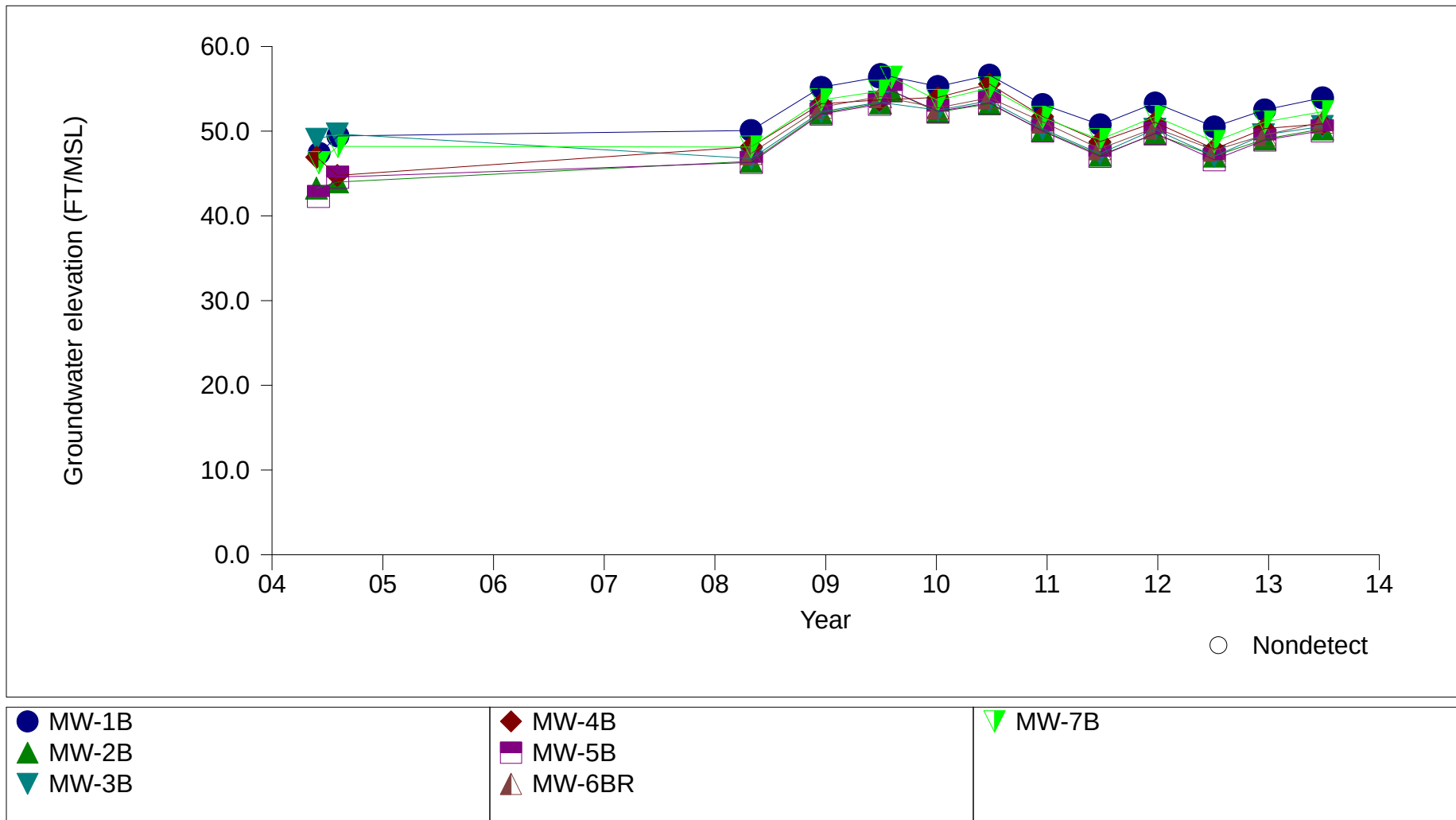
Vista Landfill

Figure A-11. Upper Surficial Time Series Plot for Groundwater elevation



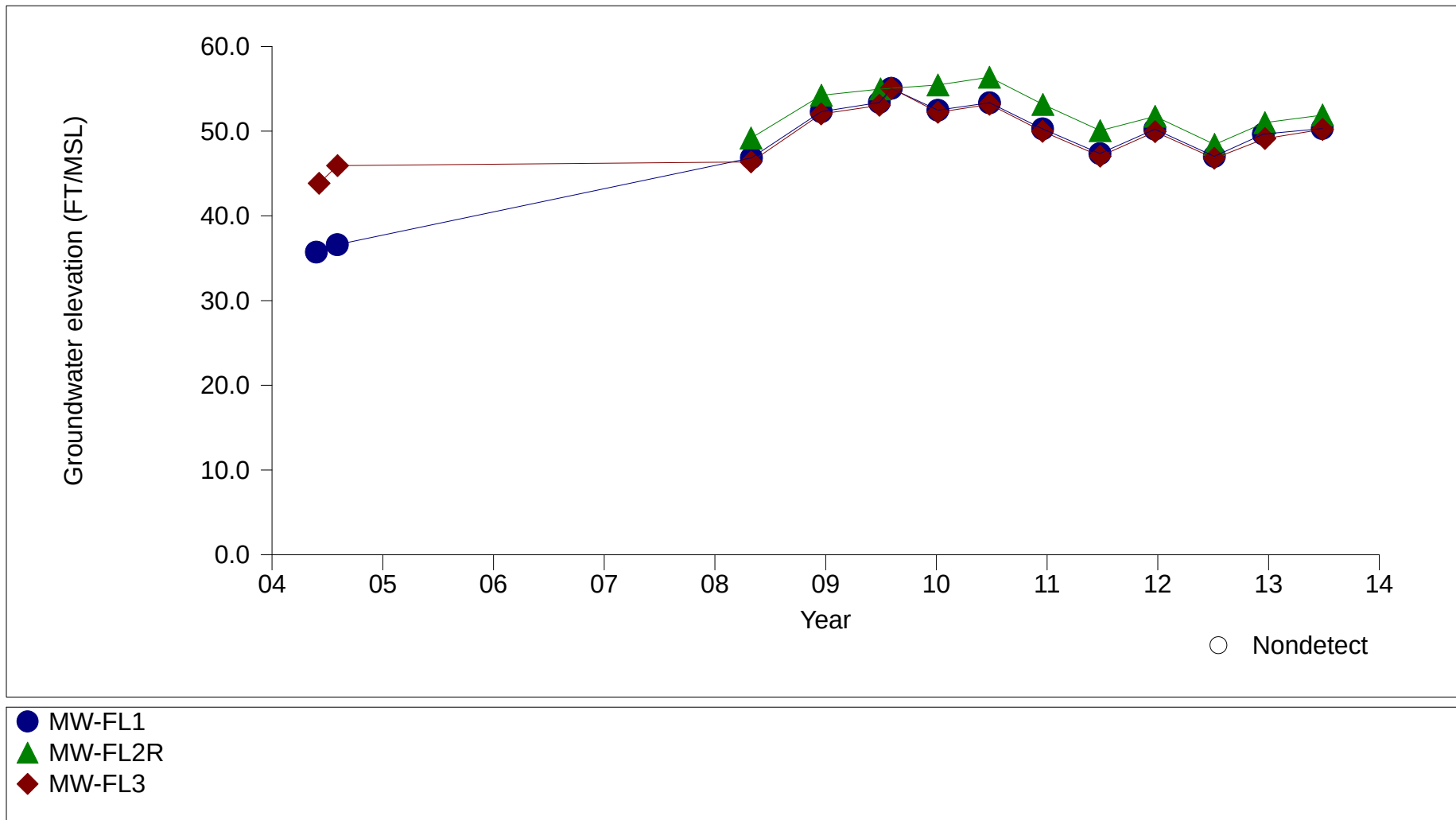
Vista Landfill

Figure A-12. Lower Surficial Time Series Plot for Groundwater elevation



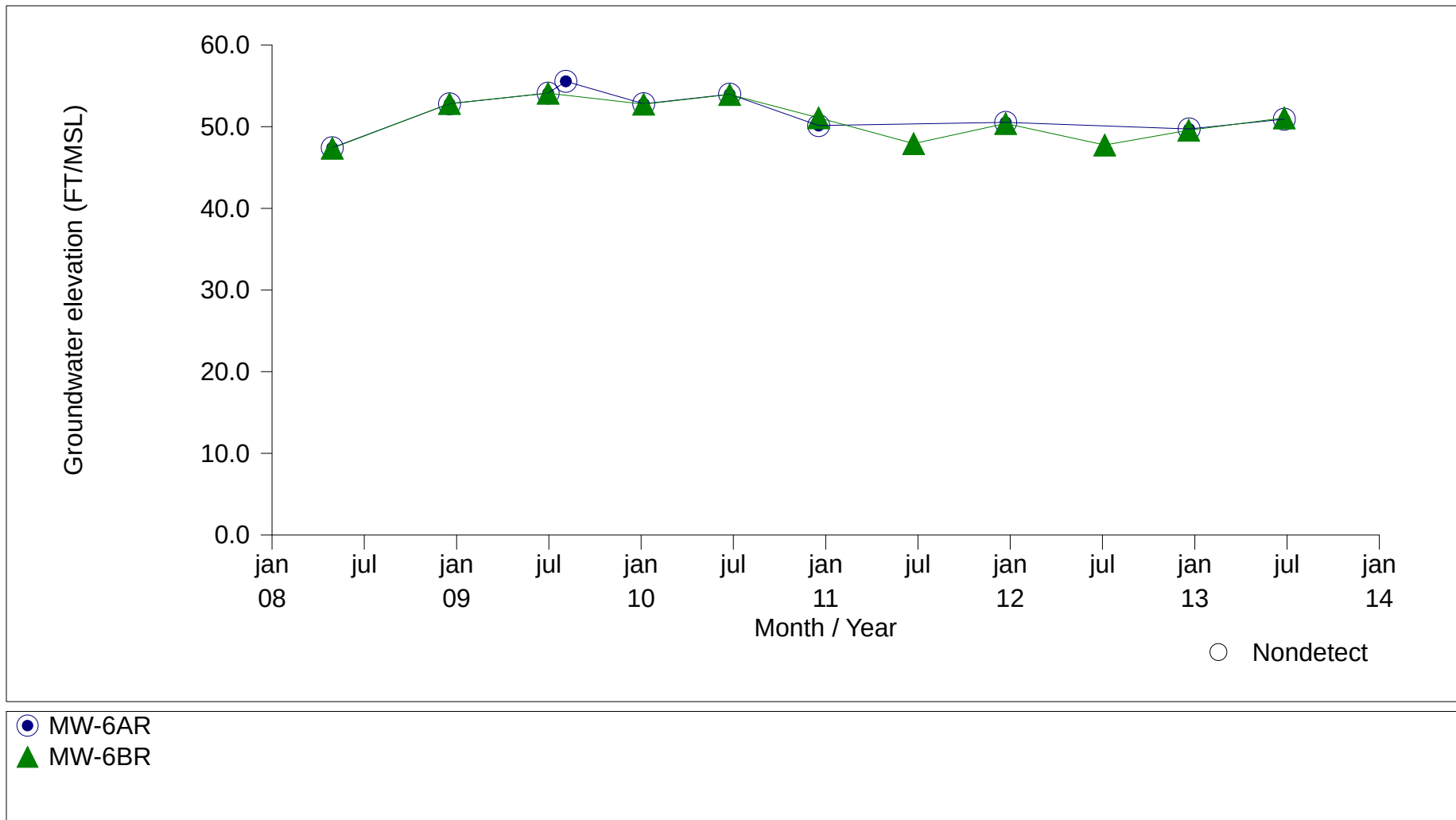
Vista Landfill

Figure A-13. FloridanTime Series Plot for Groundwater elevation



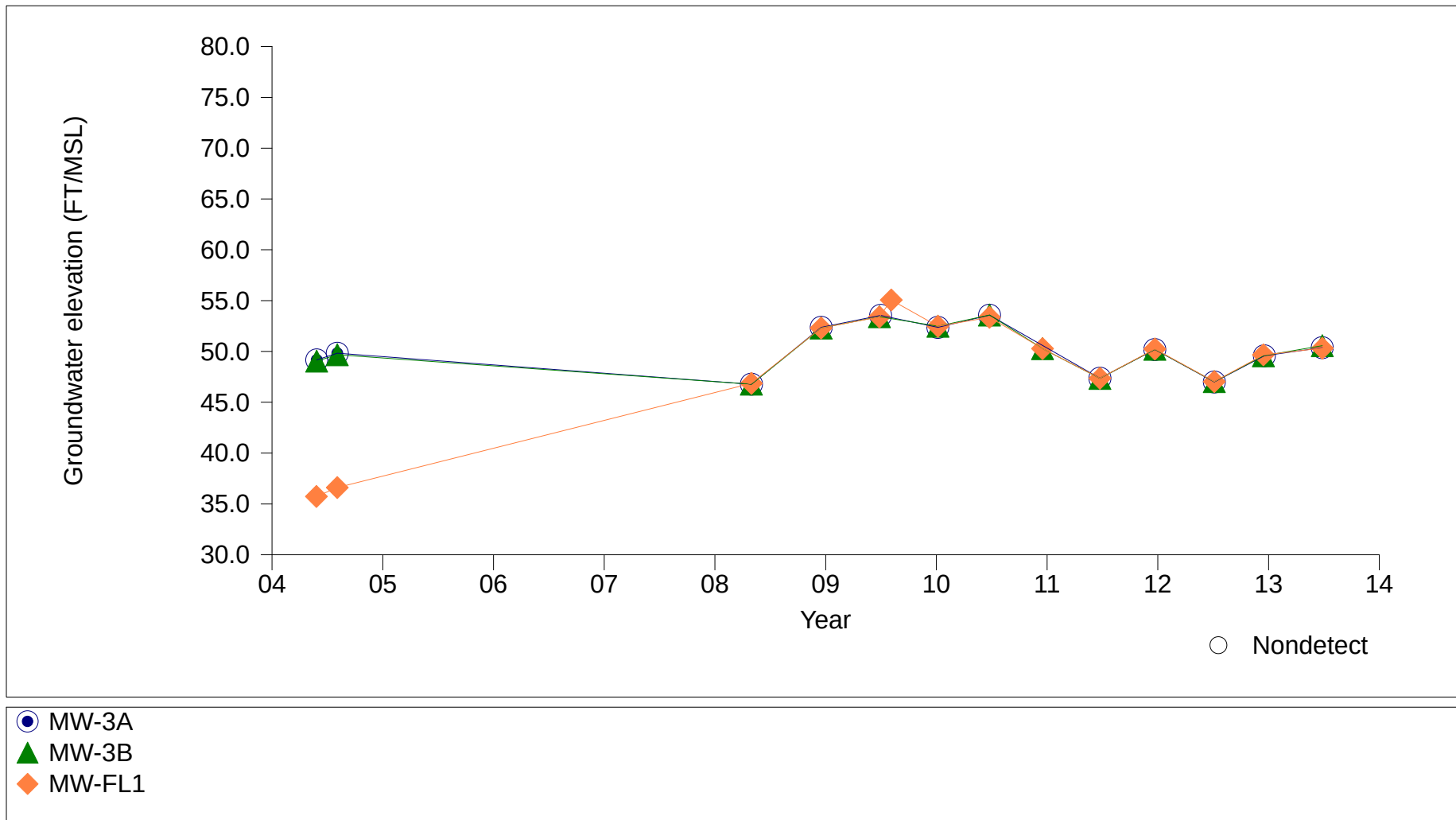
Vista Landfill

Figure A-14. MW-6AR and MW-6BR Time Series Plot for Groundwater elevation



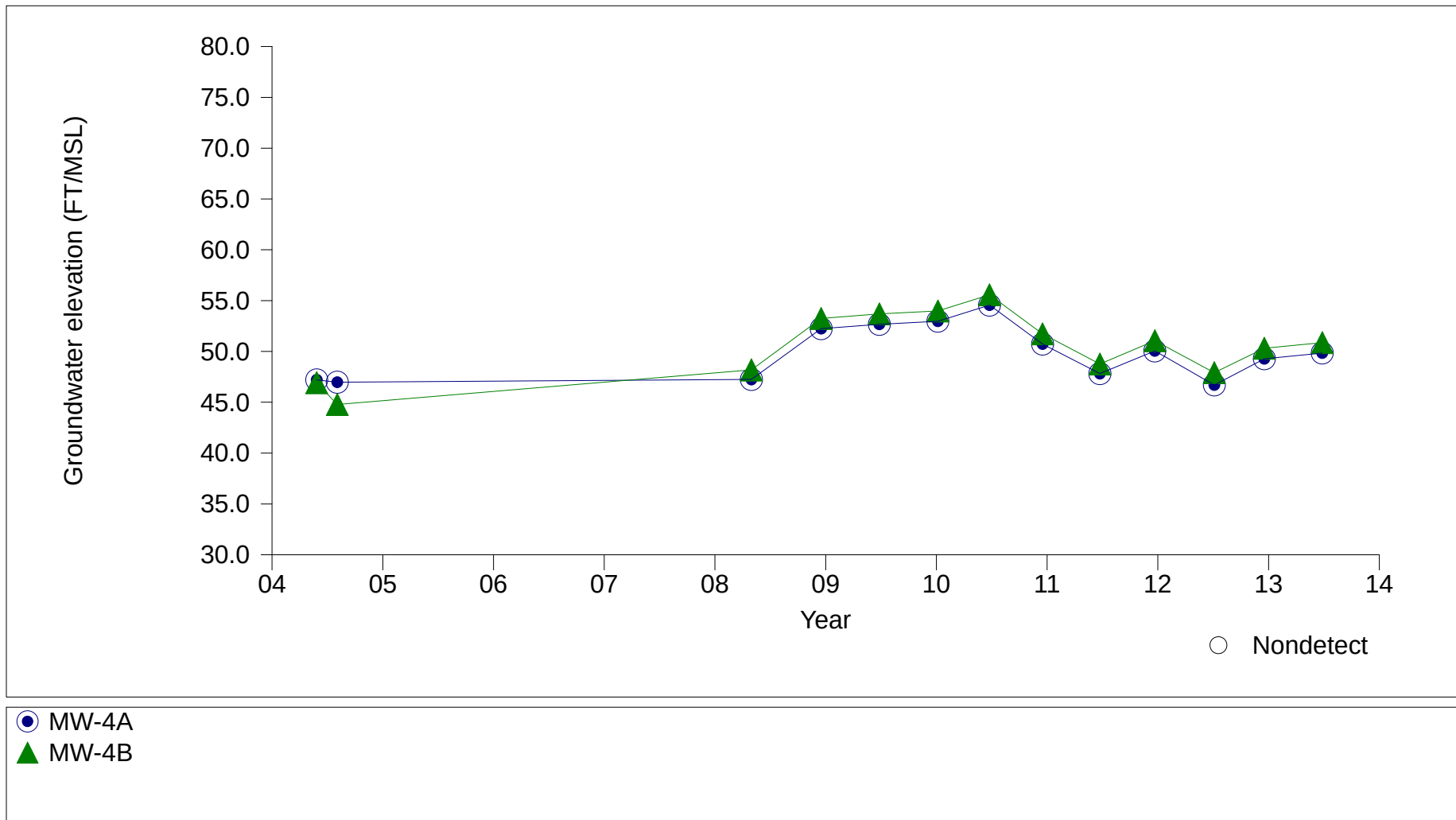
Vista Landfill

Figure A-15. MW-3A, MW-3B, and MW-FL1 Time Series Plot for Groundwater elevation



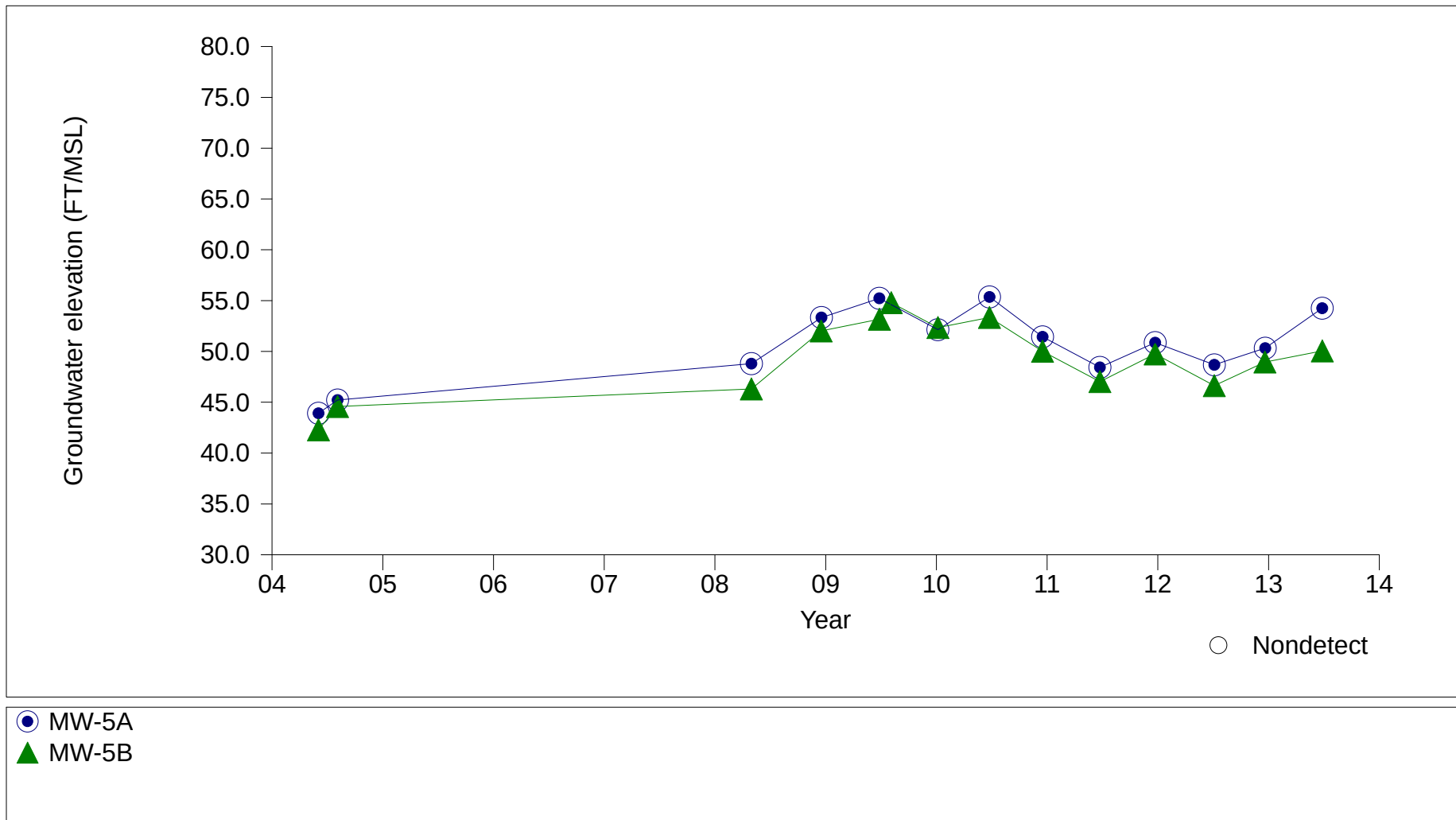
Vista Landfill

Figure A-16. MW-4A and MW-4B Time Series Plot for Groundwater elevation



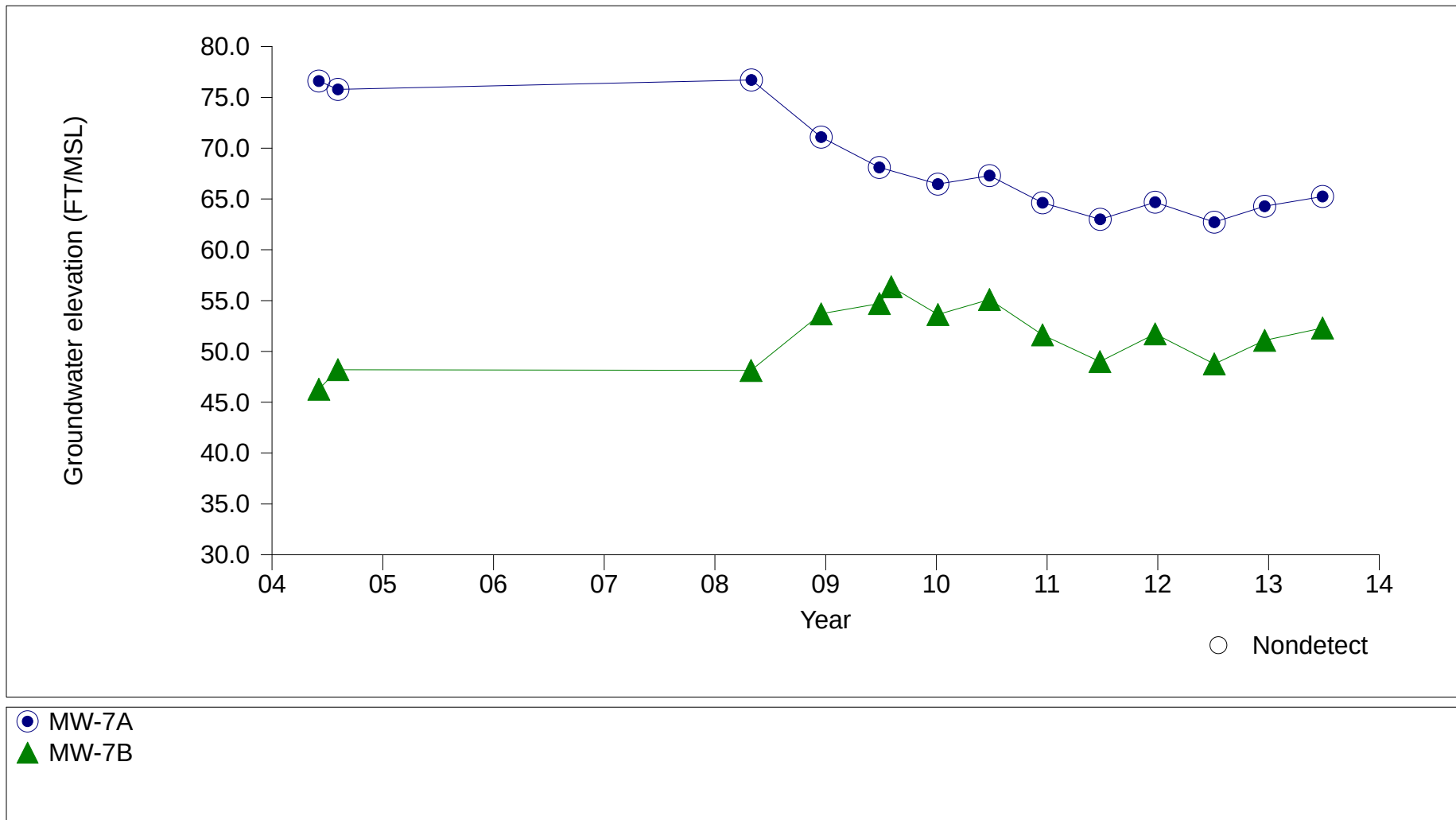
Vista Landfill

Figure A-17. MW-5A and MW-5B Time Series Plot for Groundwater elevation



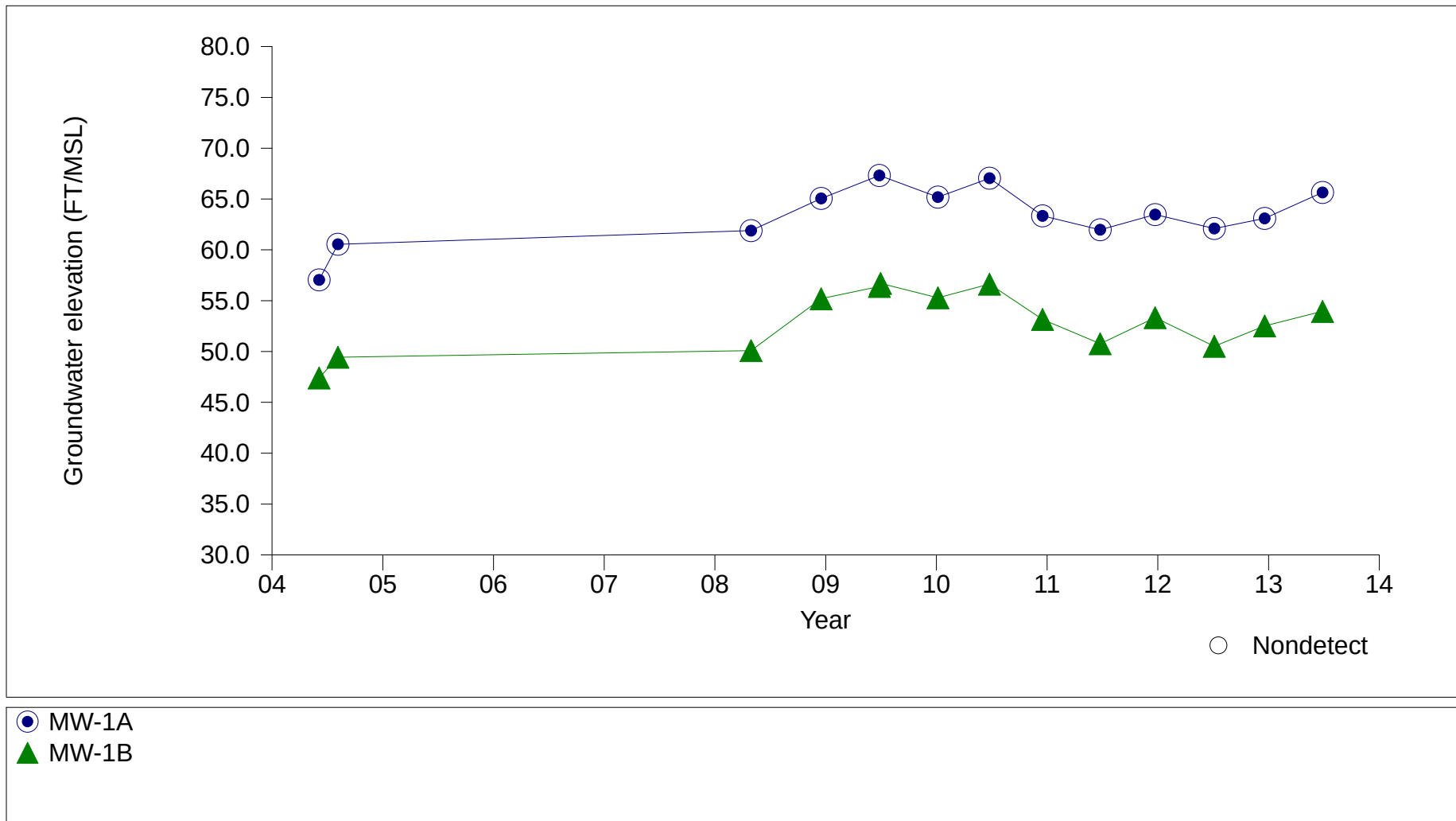
Vista Landfill

Figure A-18. MW-7A and MW-7B Time Series Plot for Groundwater elevation



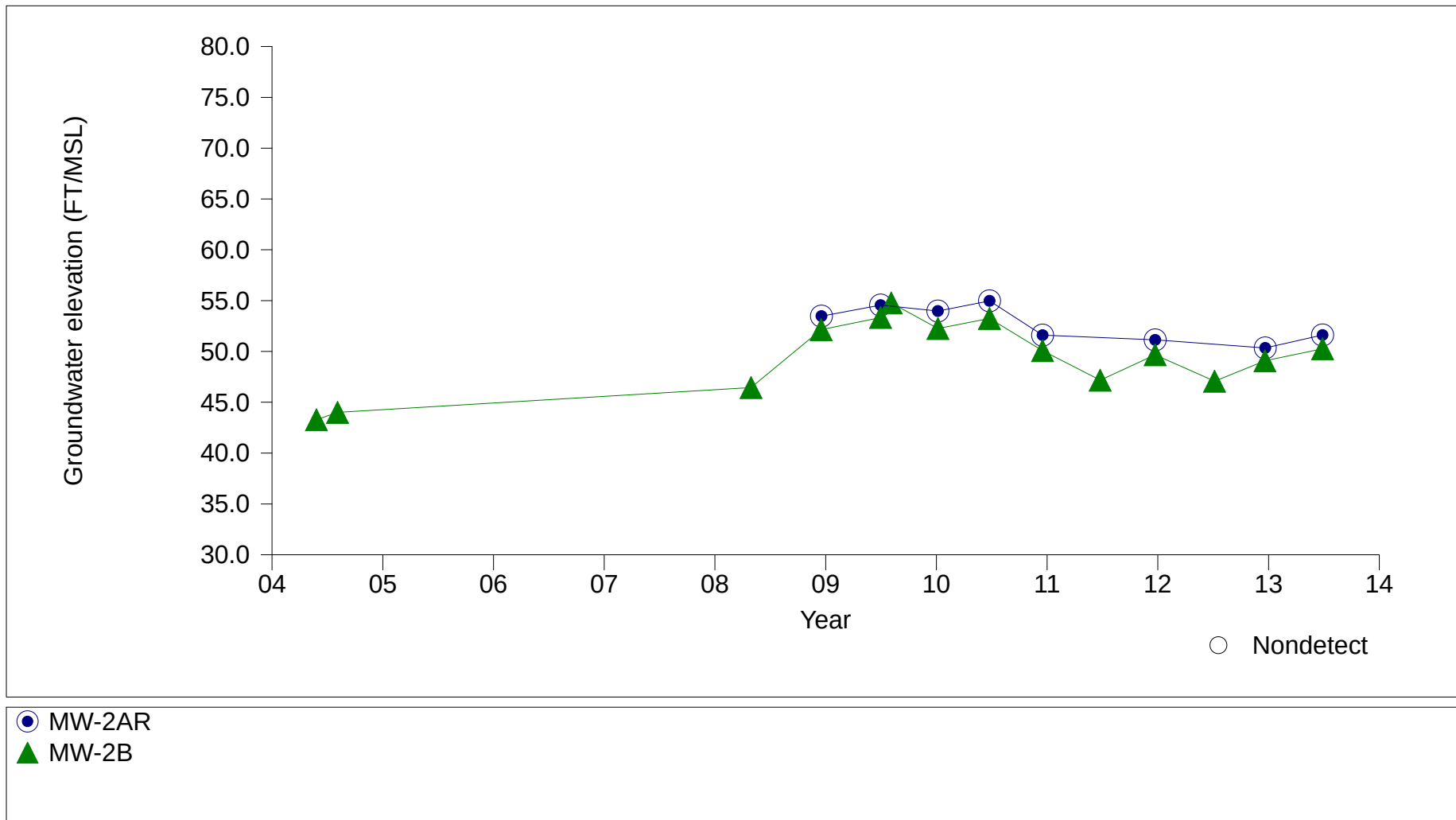
Vista Landfill

Figure A-19. MW-1A and MW-1B Time Series Plot for Groundwater elevation



Vista Landfill

Figure A-20. MW-2AR and MW-2B Time Series Plot for Groundwater elevation



APPENDIX B
TABLES OF EXCEEDANCES AND DETECTIONS

Summary of Detected Parameters, MW-1A

Parameter	Standard	MCL	Units	1/5/2010	6/24/2010	12/16/2010	6/24/2011	12/22/2011	7/5/2012	12/18/2012	6/27/2013
Volatile Organic Compounds											
Acetone	GCTL	6300	ug/L	1.9 U	2.1 I	2.9 IV	1.9 U	4.4 I	1.9 U	1.9 U	1.9 U
Benzene	PDWS	1	ug/L	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.18 U	0.16 U
Carbon disulfide	GCTL	700	ug/L	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U
Chloroform	GCTL	70	ug/L	0.16 U	0.16 U	0.16 U	0.16 U	0.16 I	0.18 I	0.29 U	0.16 U
Chloromethane	GCTL	2.7	ug/L	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Ethylbenzene	SDWS	30	ug/L	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.12 U	0.16 U
Methylene chloride	PDWS	5	ug/L	0.32 U	0.32 U	0.32 U	0.32 U	0.6 IV	0.32 U	0.36 U	0.32 U
Toluene	SDWS	40	ug/L	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.23 U	0.17 U
Trihalomethanes, Total	PDWS	80	ug/L	---	---	---	---	---	---	0.1 U	---
Vinyl Chloride	PDWS	1	ug/L	0.4 U	0.4 U	0.4 U	0.1 U	0.1 U	0.1 U	0.33 U	0.1 U
m-Xylene & p-Xylene	See Below	See Below	ug/L	---	---	---	---	---	---	0.42 U	---
Xylenes (total)	SDWS	20	ug/L	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.27 U	0.19 U
Semi-volatile Organic Compounds											
Bis(2-ethylhexyl) phthalate	PDWS	6	ug/L	---	---	---	---	---	---	1.9 I	---
Metals											
Aluminum	SDWS	200	ug/L	68 I	20 I	18 U	59 I	190	300	18 U	150
Antimony	PDWS	6	ug/L	0.1 I	0.07 U	0.07 U	0.07 U	0.2 U	0.4 U	0.16 U	0.4 U
Arsenic	PDWS	10	ug/L	0.21 U	0.21 U	0.21 U	0.21 U	0.33 U	0.33 U	0.5 U	0.33 U
Barium	PDWS	2000	ug/L	18 V	18	18	20	20	22	---	23 V
Beryllium	PDWS	4	ug/L	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.15 U	0.08 U
Cadmium	PDWS	5	ug/L	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.5 I	0.45 U
Chromium	PDWS	100	ug/L	1 I	1.1 I	0.85 I	1.1 I	1.3 I	1.7 I	0.67 I	1.5 I
Cobalt	GCTL	140	ug/L	1.2 U	0.94 I	1.2 U	1.2 U	1.2 I	1.3 I	1.2 U	1.2 I
Copper	SDWS	1000	ug/L	1.4 U	2.7 I	1.6 I	1.9 I	1.9 I	1.4 U	1.7 I	3.3 I
Iron	SDWS	300	ug/L	48 I	52 I	22 U	48 I	110	120	22 U	98 I
Lead	PDWS	15	ug/L	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U
Manganese	SDWS	50	ug/L	1.1 I	0.63 I	0.25 U	0.73 I	2.4 I	1.1 I	0.7 I	1.5 IV
Mercury	PDWS	2	ug/L	0.027 U	0.027 U	0.027 U	0.027 U	0.031 IV	0.027 U	0.033 IV	0.027 U
Nickel	PDWS	100	ug/L	3.3 I	3.6 I	4.5 I	3.4 I	4.3 I	4.3 I	4.3 I	4.6 I
Selenium	PDWS	50	ug/L	4.9 U	4.9 U	4.9 U	4.9 U	4.9 U	4.9 U	4.9 U	4.9 U
Silver	SDWS	100	ug/L	0.93 U	0.93 U	0.93 U	2.1 IV	0.93 U	0.93 U	0.93 U	0.93 U
Sodium	PDWS	160	mg/L	6.2	6.2	7.5 V	6.6	7.3	7.2	7.6 V	7
Thallium	PDWS	2	ug/L	0.071 I	0.088 IV	0.046 IV	0.061 IV	0.046 I	0.053 I	0.15 I	0.05 U
Vanadium	GCTL	49	ug/L	1.1 U	1.1 U	1.1 U	1.1 U	1.1 I	1.1 U	1.1 U	1.6 I
Zinc	SDWS	5000	ug/L	4.5 U	4.5 U	4.5 U	4.5 U	4.5 I	4.5 U	4.9 IV	4.5 U
Herbicides											
Dinoseb	PDWS	7	ug/L	---	---	---	---	---	---	0.17 U	---
Radiochemistry											
Gross Alpha	PDWS	15	PCi/L	3 U	3 IV	3 U	---	---	---	-0.0258 U	3.29
Radium-226	PDWS	5	PCi/L	---	---	---	---	---	---	0.424	---
Radium-228	PDWS	5	PCi/L	---	---	---	---	---	---	0.0481 U	---
General Chemistry											
Cyanide, Total	PDWS	0.2	mg/L	---	---	---	---	---	---	0.0025 I	---
Ammonia as N	GCTL	2.8	mg/L	0.022 U	0.022 U	0.043 IV	0.11 V	0.022 U	0.063 IV	0.022 U	0.022 U
Total Alkalinity	NS	NS	mg/L	99	---	94	---	110 V	---	110	---
Chloride	SDWS	250	mg/L	12	10	13	14	13	14	14	13
Coliform, Total	PDWS	2500	#/100 mL	---	---	---	---	---	---	350	---
Di(2-ethylhexyl)adipate	PDWS	400	ug/L	---	---	---	---	---	---	0.58 U	---
Fluoride	SDWS	2	mg/L	---	---	---	---	---	---	0.06 U	---
Methylene Blue Active Substances	NS	NS	mg/I LAS MW 340	---	---	---	---	---	---	0.12 U	---
Nitrate (as N)	PDWS	10	mg/L	11	9.7	10	11	11	11 Q	12	11
Nitrate/Nitrite	PDWS	10	mg/L	---	---	---	---	---	---	13	---
Nitrite (as N)	PDWS	1	mg/L	---	---	---	---	---	---	0.049 U	---
Total Dissolved Solids	SDWS	500	mg/L	220	1000 V	220	280	220	310	230	260
Total Sulfide	NS	NS	mg/L	---	---	---	---	---	---	1.4 I	---
Sulfate	SDWS	250	mg/L	---	---	---	---	---	---	20	---
Field Parameters											
Conductivity	NS	NS	umhos/cm	299	312	357	350	342	381	376	377
Dissolved Oxygen	NS	NS	mg/L	2	2.7	2.6	2.3	1.4	1.3	0.9	0.6
Dissolved Oxygen	MPIS	20	% Sat.	22.43	32.68	29.73	27.84	16.01	15.15	10.69	7.13
Field pH	SDWS	6.5-8.5	SU	7.44	6.38	7.52	7.64	6.79	7.08	7	7.46
Field Temperature	NS	NS	Degrees C	21.3	24.7	22.3	24.6	21.8	22.8	23.5	23.9
Turbidity	NS	NS	NTU	5.5	0.79	0.97	2.19	0.09	1.03	2.26	0.39

- Notes:
1. PDWS = Primary Drinking Water Standard (62-550 F.A.C.)
 2. SDWS = Secondary Drinking Water Standard (62-550 F.A.C.)
 3. GCTL = Groundwater Clean-Up Target Level (62-777 F.A.C.)
 4. NS = No numeric standard has been set for this analyte.
 5. --- = Parameter not analyzed.
 6. mg/L = milligrams per liter
 7. ug/L = micrograms per liter
 8. SU = Standard Units
 9. NTU = nephelometric turbidity units
 10. umhos/cm = micromhos per centimeter
 11. % Sat = percent saturation
 12. Yellow shaded values indicate parameter concentrations exceed primary, secondary drinking water standards, or groundwater cleanup target levels.
 13. Degrees C = degrees Celsius
 14. U = Analyte concentration was below the laboratory detection limit (value shown).
 15. I = Analyte concentration was between the laboratory detection limit and laboratory practical quantitation limit.
 16. V = Analyte was detected in the sample and associated method blank.
 17. Q = Sample held beyond the accepted holding time.
 18. Y = Laboratory analysis was from an improperly preserved sample. The data may not be accurate.
 19. Dry = Monitoring well purged dry and a sample was not collected.

Summary of Detected Parameters, MW-1B

Parameter	Standard	MCL	Units	1/5/2010	6/24/2010	12/16/2010	6/24/2011	12/22/2011	7/5/2012	12/18/2012	6/27/2013
Volatile Organic Compounds											
Acetone	GCTL	6300	ug/L	1.9 U	3 I	3.5 IV	1.9 U	2.5 I	1.9 U	1.9 U	1.9 U
Benzene	PDWS	1	ug/L	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.18 U	0.16 U
Carbon disulfide	GCTL	700	ug/L	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U
Chloroform	GCTL	70	ug/L	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.29 U	0.16 U
Chloromethane	GCTL	2.7	ug/L	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Ethylbenzene	SDWS	30	ug/L	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.12 U	0.16 U
Methylene chloride	PDWS	5	ug/L	0.32 U	0.32 U	0.32 U	0.32 U	0.6 IV	0.32 U	0.36 U	0.32 U
Toluene	SDWS	40	ug/L	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.23 U	0.17 U
Trihalomethanes, Total	PDWS	80	ug/L	---	---	---	---	---	---	0.1 U	---
Vinyl Chloride	PDWS	1	ug/L	0.4 U	0.4 U	0.4 U	0.1 U	0.1 U	0.1 U	0.33 U	0.1 U
m-Xylene & p-Xylene	See below	See below	ug/L	---	---	---	---	---	---	0.42 U	---
Xylenes (total)	SDWS	20	ug/L	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.27 U	0.19 U
Semi-volatile Organic Compounds											
Bis(2-ethylhexyl) phthalate	PDWS	6	ug/L	---	---	---	---	---	---	0.54 U	---
Metals											
Aluminum	SDWS	200	ug/L	20 I	18 U	21 I	18 I	18 U	18 U	18 U	18 U
Antimony	PDWS	6	ug/L	0.17 I	0.07 U	0.07 U	0.075 I	0.2 U	0.4 U	0.21 I	0.4 U
Arsenic	PDWS	10	ug/L	3.7 I	3.2 I	3.3 I	2.9 I	3 I	2.9 I	3.5 I	2.7 I
Barium	PDWS	2000	ug/L	8 IV	6.4 I	6.8 I	8.3 I	7.6 I	8.1 I	---	10 V
Beryllium	PDWS	4	ug/L	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.15 U	0.08 U
Cadmium	PDWS	5	ug/L	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U
Chromium	PDWS	100	ug/L	0.66 U	0.66 U	0.66 U	0.66 U	0.66 U	0.66 U	0.66 U	0.66 U
Cobalt	GCTL	140	ug/L	1.2 U	0.12 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
Copper	SDWS	1000	ug/L	1.4 U	0.29 I	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.5 I
Iron	SDWS	300	ug/L	22 I	22 U	25 I	42 I	22 U	22 U	34 I	22 U
Lead	PDWS	15	ug/L	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U
Manganese	SDWS	50	ug/L	1 I	1 I	1.1 I	0.66 I	0.54 I	0.96 I	3.1 I	0.8 IV
Mercury	PDWS	2	ug/L	0.027 U	0.027 U	0.027 U	0.027 U	0.032 IV	0.027 U	0.029 IV	0.027 U
Nickel	PDWS	100	ug/L	1.4 I	1.3 U	1.5 I	1.3 U	1.5 I	1.3 U	1.5 I	1.3 U
Selenium	PDWS	50	ug/L	4.9 U	4.9 U	6.7 I	4.9 U	4.9 U	4.9 U	4.9 U	4.9 U
Silver	SDWS	100	ug/L	0.93 U	0.93 U	0.93 U	2.4 IV	0.93 U	0.93 U	0.93 U	0.93 U
Sodium	PDWS	160	mg/L	4.6	4.7	4.6 V	4.6	4.8	4.7	5.4 V	4.8
Thallium	PDWS	2	ug/L	0.02 U	0.024 IV	0.02 U	0.047 IV	0.033 U	0.05 U	0.066 U	0.05 U
Vanadium	GCTL	49	ug/L	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
Zinc	SDWS	5000	ug/L	4.5 U	4.5 U	4.5 U	4.5 U	4.5 U	6.6 I	6.3 IV	8.6 I
Herbicides											
Dinoseb	PDWS	7	ug/L	---	---	---	---	---	---	0.17 U	---
Radiochemistry											
Gross Alpha	PDWS	15	PCi/L	3 IV	3 IV	3 I	---	---	---	8.05	4.62
Radium-226	PDWS	5	PCi/L	---	---	---	---	---	---	1.92	---
Radium-228	PDWS	5	PCi/L	---	---	---	---	---	---	0.0981 U	---
General Chemistry											
Cyanide, Total	PDWS	0.2	mg/L	---	---	---	---	---	---	0.0061 I	---
Ammonia as N	GCTL	2.8	mg/L	0.022 U	0.022 U	0.045 IV	0.12 V	0.022 U	0.062 IV	0.022 U	0.022 U
Total Alkalinity	NS	NS	mg/L	73	---	72	---	75 V	---	73	---
Chloride	SDWS	250	mg/L	6.5	6.3	6.5	7.1	6.6	6.8	6.9	6.8
Coliform, Total	PDWS	2500	#/100 mL	---	---	---	---	---	---	290	---
Di(2-ethylhexyl)adipate	PDWS	400	ug/L	---	---	---	---	---	---	0.59 U	---
Fluoride	SDWS	2	mg/L	---	---	---	---	---	---	0.12 I	---
Methylene Blue Active Substances	NS	NS	mg/I LAS MW 340	---	---	---	---	---	---	0.12 U	---
Nitrate (as N)	PDWS	10	mg/L	0.042 U	0.05 I	0.046 I	0.042 U	0.042 U	0.042 U	0.089 I	0.087 I
Nitrate/Nitrite	PDWS	10	mg/L	---	---	---	---	---	---	0.068 I	---
Nitrite (as N)	PDWS	1	mg/L	---	---	---	---	---	---	0.049 U	---
Total Dissolved Solids	SDWS	500	mg/L	100	100 V	110	100	88	100	100	110
Total Sulfide	NS	NS	mg/L	---	---	---	---	---	---	0.79 U	---
Sulfate	SDWS	250	mg/L	---	---	---	---	---	---	7.5	---
Field Parameters											
Conductivity	NS	NS	umhos/cm	149	168	178	164	165	172	161	178
Dissolved Oxygen	NS	NS	mg/L	0.8	0.5	0.5	0.4	0.4	0.2	0	0.7
Dissolved Oxygen	MPIS	20	% Sat.	8.97	6.28	5.83	4.84	4.57	2.33	0	8.32
Field pH	SDWS	6.5-8.5	SU	7.85	7.9	7.49	7.8	7.15	7.56	7.45	7.62
Field Temperature	NS	NS	Degrees C	21.4	26.6	22.8	24.7	22.1	23	23.7	23.8
Turbidity	NS	NS	NTU	4.1	0.29	1.52	2.08	2.14	2.47	2.67	1.29

- Notes:
1. PDWS = Primary Drinking Water Standard (62-550 F.A.C.)
 2. SDWS = Secondary Drinking Water Standard (62-550 F.A.C.)
 3. GCTL = Groundwater Clean-Up Target Level (62-777 F.A.C.)
 4. NS = No numeric standard has been set for this analyte.
 5. --- = Parameter not analyzed.
 6. mg/L = milligrams per liter
 7. ug/L = micrograms per liter
 8. SU = Standard Units
 9. NTU = nephelometric turbidity units
 10. umhos/cm = micromhos per centimeter
 11. % Sat = percent saturation
 12. Yellow shaded values indicate parameter concentrations exceed primary, secondary drinking water standards, or groundwater cleanup target levels.
 13. Degrees C = degrees Celsius
 14. U = Analyte concentration was below the laboratory detection limit (value shown).
 15. I = Analyte concentration was between the laboratory detection limit and laboratory practical quantitation limit.
 16. V = Analyte was detected in the sample and associated method blank.
 17. Q = Sample held beyond the accepted holding time.
 18. Y = Laboratory analysis was from an improperly preserved sample. The data may not be accurate.
 19. Dry = Monitoring well purged dry and a sample was not collected.

Summary of Detected Parameters, MW-2AR

Parameter	Standard	MCL	Units	1/5/2010	6/24/2010	12/16/2010	12/22/2011	12/20/2012	6/27/2013
Volatile Organic Compounds									
Acetone	GCTL	6300	ug/L	1.9 U	1.9 U	3.4 IV	2.7 I	1.9 U	1.9 U
Benzene	PDWS	1	ug/L	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
Carbon disulfide	GCTL	700	ug/L	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U
Chloroform	GCTL	70	ug/L	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
Chloromethane	GCTL	2.7	ug/L	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Ethylbenzene	SDWS	30	ug/L	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
Methylene chloride	PDWS	5	ug/L	0.32 U	0.32 U	0.32 U	0.6 IV	0.32 U	0.32 U
Toluene	SDWS	40	ug/L	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
Vinyl Chloride	PDWS	1	ug/L	0.4 U	0.4 U	0.4 U	0.1 U	0.1 U	0.1 U
Xylenes (total)	SDWS	20	ug/L	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
Metals									
Aluminum	SDWS	200	ug/L	430	100	59 I	1300	1400	1400
Antimony	PDWS	6	ug/L	0.092 I	0.18 I	0.07 U	0.2 U	0.4 U	0.4 U
Arsenic	PDWS	10	ug/L	0.21 U	0.21 U	0.21 U	0.33 U	0.33 U	0.33 I
Barium	PDWS	2000	ug/L	16 V	9.1 I	11	13	14	23 V
Beryllium	PDWS	4	ug/L	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.091 I
Cadmium	PDWS	5	ug/L	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U
Chromium	PDWS	100	ug/L	1.5 I	0.66 U	0.66 U	2.1 I	2.8 I	4.8 I
Cobalt	GCTL	140	ug/L	1.2 U	0.12 U	1.2 U	1.2 U	1.2 U	1.2 U
Copper	SDWS	1000	ug/L	1.4 U	0.57 I	1.4 U	1.4 U	1.4 U	2.1 I
Iron	SDWS	300	ug/L	160	30 I	22 I	260	240	530
Lead	PDWS	15	ug/L	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.8 I
Manganese	SDWS	50	ug/L	4.6 I	3.8 I	4 I	3.6 I	5.5 I	5.3 I
Mercury	PDWS	2	ug/L	0.027 U	0.027 U	0.027 U	0.033 IV	0.03 IV	0.027 U
Nickel	PDWS	100	ug/L	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
Selenium	PDWS	50	ug/L	4.9 U	4.9 U	4.9 U	4.9 U	4.9 U	4.9 U
Silver	SDWS	100	ug/L	0.93 U	0.93 U	1.3 I	0.93 U	0.93 U	0.93 U
Sodium	PDWS	160	mg/L	3.5	2.6	4.4 V	3.1	2.9 V	2
Thallium	PDWS	2	ug/L	0.024 I	0.032 IV	0.028 IV	0.033 U	0.05 U	0.05 U
Vanadium	GCTL	49	ug/L	1.1 U	1.1 U	1.1 U	1.1 U	1.4 I	2.6 I
Zinc	SDWS	5000	ug/L	5.8 I	4.5 U	5.1 I	5.2 I	8.9 IV	8.3 I
Radiochemistry									
Gross Alpha	PDWS	15	PCi/L	3 IV	3 IV	3 I	---	10.3	1.56
General Chemistry									
Ammonia as N	GCTL	2.8	mg/L	0.022 U	0.022 U	0.042 IV	0.022 U	0.022 U	0.062 I
Total Alkalinity	NS	NS	mg/L	1.6 I	---	1.1 U	1.7 I	2.3 I	---
Chloride	SDWS	250	mg/L	5.3	3.3	6.2	4.1	3.9	2.4 I
Nitrate (as N)	PDWS	10	mg/L	1.5	0.92	1.6	1.1	0.94	0.57
Total Dissolved Solids	SDWS	500	mg/L	30	34 V	32	19	37	22
Field Parameters									
Conductivity	NS	NS	umhos/cm	34	37	44	34	30	25
Dissolved Oxygen	NS	NS	mg/L	1.1	0.6	2.7	0.7	4.7	4.3
Dissolved Oxygen	MPIS	20	% Sat.	11.38	7.53	31.47	8.47	53.74	53.98
Field pH	SDWS	6.5-8.5	SU	6.27	5.2	5.06	4.84	5.65	5.28
Field Temperature	NS	NS	Degrees C	16.7	27.4	22.7	24.8	22.2	27.4
Turbidity	NS	NS	NTU	11.6	4.23	1.9	12.49	12.74	3.75

- Notes:
1. PDWS = Primary Drinking Water Standard (62-550 F.A.C.)
 2. SDWS = Secondary Drinking Water Standard (62-550 F.A.C.)
 3. GCTL = Groundwater Clean-Up Target Level (62-777 F.A.C.)
 4. NS = No numeric standard has been set for this analyte.
 5. --- = Parameter not analyzed.
 6. mg/L = milligrams per liter
 7. ug/L = micrograms per liter
 8. SU = Standard Units
 9. NTU = nephelometric turbidity units
 10. umhos/cm = micromhos per centimeter
 11. % Sat = percent saturation
 12. Yellow shaded values indicate parameter concentrations exceed primary, secondary drinking water standards, or groundwater cleanup target levels.
 13. Degrees C = degrees Celsius
 14. U = Analyte concentration was below the laboratory detection limit (value shown).
 15. I = Analyte concentration was between the laboratory detection limit and laboratory practical quantitation limit.
 16. V = Analyte was detected in the sample and associated method blank.
 17. Q = Sample held beyond the accepted holding time.
 18. Y = Laboratory analysis was from an improperly preserved sample. The data may not be accurate.
 19. Dry = Monitoring well purged dry and a sample was not collected.

Summary of Detected Parameters, MW-2B

Parameter	Standard	MCL	Units	1/5/2010	6/24/2010	12/16/2010	6/24/2011	12/22/2011	7/6/2012	12/19/2012	6/27/2013
Volatile Organic Compounds											
Acetone	GCTL	6300	ug/L	1.9 U	1.9 U	2.9 IV	1.9 U	4.8 I	1.9 U	1.9 U	1.9 U
Benzene	PDWS	1	ug/L	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.18 U	0.16 U
Carbon disulfide	GCTL	700	ug/L	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U
Chloroform	GCTL	70	ug/L	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.29 U	0.16 U
Chloromethane	GCTL	2.7	ug/L	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Ethylbenzene	SDWS	30	ug/L	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.12 U	0.16 U
Methylene chloride	PDWS	5	ug/L	0.32 U	0.32 U	0.32 U	0.32 U	0.6 IV	0.32 U	0.36 U	0.32 U
Toluene	SDWS	40	ug/L	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 UJ	0.23 U	0.17 U
Trihalomethanes, Total	PDWS	80	ug/L	---	---	---	---	---	---	0.1 U	---
Vinyl Chloride	PDWS	1	ug/L	0.4 U	0.4 U	0.4 U	0.1 U	0.1 U	0.1 U	0.33 U	0.1 U
m-Xylene & p-Xylene	See below	See below	ug/L	---	---	---	---	---	---	0.42 U	---
Xylenes (total)	SDWS	20	ug/L	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.27 U	0.19 U
Semi-volatile Organic Compounds											
Bis(2-ethylhexyl) phthalate	PDWS	6	ug/L	---	---	---	---	---	---	0.55 U	---
Metals											
Aluminum	SDWS	200	ug/L	2000	1600	1400	830	940	540	330	560
Antimony	PDWS	6	ug/L	0.11 I	0.1 I	0.075 I	0.07 U	0.2 U	0.4 U	0.19 I	0.4 U
Arsenic	PDWS	10	ug/L	0.62 I	0.58 I	0.59 I	0.43 I	0.36 I	0.35 I	0.5 U	0.37 I
Barium	PDWS	2000	ug/L	25 V	25	23	13	11	8.5 I	---	13 V
Beryllium	PDWS	4	ug/L	0.08 U	0.12 I	0.08 U	0.08 U	0.08 U	0.08 U	0.15 U	0.08 U
Cadmium	PDWS	5	ug/L	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U
Chromium	PDWS	100	ug/L	5.3 I	4.8 I	5.1 I	2.8 I	2.3 I	1.8 I	2.2 I	2.1 I
Cobalt	GCTL	140	ug/L	1.2 U	0.12 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
Copper	SDWS	1000	ug/L	1.4 U	2.7 I	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.8 I
Iron	SDWS	300	ug/L	870	850	730	360	290	150	140	220
Lead	PDWS	15	ug/L	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U
Manganese	SDWS	50	ug/L	9.3 I	9.8 I	8.7 I	4.4 I	3.1 I	1.6 I	1.6 I	2.7 IV
Mercury	PDWS	2	ug/L	0.027 U	0.027 U	0.027 U	0.027 U	0.03 IV	0.027 U	0.031 IV	0.027 U
Nickel	PDWS	100	ug/L	1.8 I	1.3 I	1.9 I	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
Selenium	PDWS	50	ug/L	4.9 U	4.9 U	11 I	4.9 U	4.9 U	4.9 U	4.9 U	4.9 U
Silver	SDWS	100	ug/L	0.93 U	0.93 U	1.1 I	2.8 IV	0.93 U	0.93 U	0.93 U	0.93 U
Sodium	PDWS	160	mg/L	4.7	4.7	5 V	4.4	4.6	5.2	5.3 V	4.8
Thallium	PDWS	2	ug/L	0.05 I	0.063 IV	0.028 IV	0.031 IV	0.033 U	0.05 U	0.12 IV	0.05 U
Vanadium	GCTL	49	ug/L	4.8 IV	4.5 I	3.1 I	3.4 I	2.9 I	1.8 I	2.6 I	3.2 I
Zinc	SDWS	5000	ug/L	5.6 I	6.6 I	8.9 I	4.5 U	4.5 U	4.5 U	6.9 IV	6.9 I
Herbicides											
Dinoseb	PDWS	7	ug/L	---	---	---	---	---	---	0.17 U	---
Radiochemistry											
Gross Alpha	PDWS	15	PCi/L	5.4	8	8.2	---	---	---	1.44	4.18
Radium-226	PDWS	5	PCi/L	---	---	---	---	---	---	0.284	---
Radium-228	PDWS	5	PCi/L	---	---	---	---	---	---	0.122 U	---
General Chemistry											
Cyanide, Total	PDWS	0.2	mg/L	---	---	---	---	---	---	0.002 U	---
Ammonia as N	GCTL	2.8	mg/L	0.022 U	0.022 U	0.054 IV	0.13 V	0.022 U	0.066 IV	0.022 U	0.03 I
Total Alkalinity	NS	NS	mg/L	61	---	66	---	62	---	62	---
Chloride	SDWS	250	mg/L	5.7	5.3	5.4	5.8	5.3	5.3	5.3	6.6
Coliform, Total	PDWS	2500	#/100 mL	---	---	---	---	---	---	1 U	---
Di(2-ethylhexyl)adipate	PDWS	400	ug/L	---	---	---	---	---	---	0.58 U	---
Fluoride	SDWS	2	mg/L	---	---	---	---	---	---	0.13 I	---
MBAS	NS	NS	mg/l LAS MW 340	---	---	---	---	---	---	0.05 U	---
Nitrate (as N)	PDWS	10	mg/L	0.51	0.51	0.49 I	0.58	0.57	0.53	0.63	0.64
Nitrate/Nitrite	PDWS	10	mg/L	---	---	---	---	---	---	0.61	---
Nitrite (as N)	PDWS	1	mg/L	---	---	---	---	---	---	0.1 U	---
Total Dissolved Solids	SDWS	500	mg/L	86	100 V	110	71	74	80	81	79
Total Sulfide	NS	NS	mg/L	---	---	---	---	---	---	0.79 U	---
Sulfate	SDWS	250	mg/L	---	---	---	---	---	---	3 I	---
Field Parameters											
Conductivity	NS	NS	umhos/cm	130	152	152	135	144	153	122	149
Dissolved Oxygen	NS	NS	mg/L	0.7	0.5	0.4	0.3	0.2	0.1	0	0.5
Dissolved Oxygen	MPIS	20	% Sat.	7.54	6.16	4.75	3.63	2.38	1.17	0	6.05
Field pH	SDWS	6.5-8.5	SU	7.9	7.86	7.5	8.17	8	7.76	7.8	7.94
Field Temperature	NS	NS	Degrees C	18.7	25.5	23.5	24.6	24.5	23.4	23.7	25.2
Turbidity	NS	NS	NTU	14.6	13.89	13.89	9.63	10.94	6.69	7.49	5.42

- Notes:
1. PDWS = Primary Drinking Water Standard (62-550 F.A.C.)
 2. SDWS = Secondary Drinking Water Standard (62-550 F.A.C.)
 3. GCTL = Groundwater Clean-Up Target Level (62-777 F.A.C.)
 4. NS = No numeric standard has been set for this analyte.
 5. --- = Parameter not analyzed.
 6. mg/L = milligrams per liter
 7. ug/L = micrograms per liter
 8. SU = Standard Units
 9. NTU = nephelometric turbidity units
 10. umhos/cm = micromhos per centimeter
 11. % Sat = percent saturation
 12. Yellow shaded values indicate parameter concentrations exceed primary, secondary drinking water standards, or groundwater cleanup target levels.
 13. Degrees C = degrees Celsius
 14. U = Analyte concentration was below the laboratory detection limit (value shown).
 15. I = Analyte concentration was between the laboratory detection limit and laboratory practical quantitation limit.
 16. V = Analyte was detected in the sample and associated method blank.
 17. Q = Sample held beyond the accepted holding time.
 18. Y = Laboratory analysis was from an improperly preserved sample. The data may not be accurate.
 19. Dry = Monitoring well purged dry and a sample was not collected.

Summary of Detected Parameters, MW-3A

Parameter	Standard	MCL	Units	1/5/2010	6/24/2010	12/16/2010	6/23/2011	12/21/2011	7/5/2012	12/17/2012	6/26/2013
Volatile Organic Compounds											
Acetone	GCTL	6300	ug/L	1.9 U	1.9 U	4 IV	1.9 U	1.9 U	1.9 U	2.1 U	1.9 U
Benzene	PDWS	1	ug/L	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.18 U	0.16 U
Carbon disulfide	GCTL	700	ug/L	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.5 U	0.45 U
Chloroform	GCTL	70	ug/L	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.29 U	0.16 U
Chloromethane	GCTL	2.7	ug/L	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.33 U	0.3 U
Ethylbenzene	SDWS	30	ug/L	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.12 U	0.16 U
Methylene chloride	PDWS	5	ug/L	0.32 U	0.32 U	0.32 U	0.42 IV	0.32 U	0.32 U	0.36 U	0.32 U
Toluene	SDWS	40	ug/L	0.33 I	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.23 U	0.26 I
Trihalomethanes, Total	PDWS	80	ug/L	---	---	---	---	---	---	0.1 U	---
Vinyl Chloride	PDWS	1	ug/L	0.4 U	0.4 U	0.4 U	0.1 U	0.1 U	0.1 U	0.33 U	0.1 U
m-Xylene & p-Xylene	See below	See below	ug/L	---	---	---	---	---	---	0.42 U	---
Xylenes (total)	SDWS	20	ug/L	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.27 U	0.19 U
Semi-volatile Organic Compounds											
Bis(2-ethylhexyl) phthalate	PDWS	6	ug/L	---	---	---	---	---	---	0.55 U	---
Metals											
Aluminum	SDWS	200	ug/L	1800	1100	1300	1100	430	1300	360	270
Antimony	PDWS	6	ug/L	0.07 U	0.07 U	0.07 U	0.07 U	0.2 U	0.4 U	0.16 U	0.4 U
Arsenic	PDWS	10	ug/L	0.21 U	0.21 U	0.21 U	0.21 U	0.33 U	0.33 U	0.5 U	0.33 U
Barium	PDWS	2000	ug/L	57 V	55	55	43	36	36		51
Beryllium	PDWS	4	ug/L	0.19 I	0.12 I	0.1 I	0.08 U	0.08 U	0.08 U	0.15 U	0.1 I
Cadmium	PDWS	5	ug/L	0.45 U	0.45 U	0.45 U	0.45 U	0.48 I	0.45 U	0.45 U	0.45 U
Chromium	PDWS	100	ug/L	4.8 I	3.6 I	4.4 I	3.3 I	2.9 I	2.7 I	1.8 I	1.5 I
Cobalt	GCTL	140	ug/L	1.2 U	0.58 I	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
Copper	SDWS	1000	ug/L	1.4 U	1 I	1.4 U	1.4 U	6.4 IV	1.4 U	1.4 U	1.6 I
Iron	SDWS	300	ug/L	1600	1400	1200	670	450	330	140	120
Lead	PDWS	15	ug/L	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U
Manganese	SDWS	50	ug/L	9.6 I	8 I	6.6 I	3.1 I	2.4 I	1.4 I	3.2 I	3.5 I
Mercury	PDWS	2	ug/L	0.027 U	0.027 U	0.027 U	0.027 U	0.032 IV	0.027 U	0.027 U	0.027 U
Nickel	PDWS	100	ug/L	1.8 I	1.3 U	1.4 I	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
Selenium	PDWS	50	ug/L	4.9 U	4.9 U	4.9 U	4.9 U	4.9 U	4.9 U	4.9 U	4.9 U
Silver	SDWS	100	ug/L	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U
Sodium	PDWS	160	mg/L	2	2	2.7 V	2.8	2.8 V	3.1	4.7 IV	2.5
Thallium	PDWS	2	ug/L	0.059 I	0.065 IV	0.042 IV	0.054 I	0.041 I	0.05 U	0.24 I	0.053 I
Vanadium	GCTL	49	ug/L	4.4 IV	4.3 I	3.1 I	2.7 I	1.5 I	1.7 I	2.2 I	1.1 U
Zinc	SDWS	5000	ug/L	15 I	11 I	8.7 I	5.4 I	5.5 I	5.2 I	7.2 IV	6.2 I
Herbicides											
Dinoseb	PDWS	7	ug/L	---	---	---	---	---	---	0.18 U	---
Radiochemistry											
Gross Alpha	PDWS	15	PCI/L	5.1	9.3	8.4	---	---	---	3.77	8.71
Radium-226	PDWS	5	PCI/L	---	---	---	---	---	---	1.39	---
Radium-228	PDWS	5	PCI/L	---	---	---	---	---	---	0.0729 U	---
General Chemistry											
Cyanide, Total	PDWS	0.2	mg/L	---	---	---	---	---	---	0.0026 I	---
Ammonia as N	GCTL	2.8	mg/L	0.022 U	0.032 I	0.051 IV	0.2 V	0.03 I	0.073 IV	0.044 U	0.022 U
Total Alkalinity	NS	NS	mg/L	11	---	16	---	16 V	---	18	---
Chloride	SDWS	250	mg/L	3.1	3.1	3.3	3.5	3.5	3.3	3.4	3.7
Coliform, Total	PDWS	2500	#/100 mL	---	---	---	---	---	---	1 U	---
Di(2-ethylhexyl)adipate	PDWS	400	ug/L	---	---	---	---	---	---	0.72 I	---
Fluoride	SDWS	2	mg/L	---	---	---	---	---	---	0.2 I	---
Methylene Blue Active Substances	NS	NS	mg/I LAS MW 340	---	---	---	---	---	---	0.12 U	---
Nitrate (as N)	PDWS	10	mg/L	3.4	3.2	2.7	2.5	2.7	2.3	2.7	3
Nitrate/Nitrite	PDWS	10	mg/L	---	---	---	---	---	---	3.1	---
Nitrite (as N)	PDWS	1	mg/L	---	---	---	---	---	---	0.049 U	---
Total Dissolved Solids	SDWS	500	mg/L	54	81 V	56	62	59	68	48	49
Total Sulfide	NS	NS	mg/L	---	---	---	---	---	---	0.79 U	---
Sulfate	SDWS	250	mg/L	---	---	---	---	---	---	5.5	---
Field Parameters											
Conductivity	NS	NS	umhos/cm	70	77	85	81	82	92	86	92
Dissolved Oxygen	NS	NS	mg/L	2.2	1.6	2.8	2.6	6	5	4.4	4.3
Dissolved Oxygen	MPIS	20	% Sat.	23.23	20.45	33.26	31.47	72.62	59.4	51.29	53.01
Field pH	SDWS	6.5-8.5	SU	4.99	6.07	6.26	6.3	5.24	5.33	5.56	5.39
Field Temperature	NS	NS	Degrees C	18.5	27.5	23.8	25.2	25	23.6	23.4	26.5
Turbidity	NS	NS	NTU	8.7	2.19	2.8	3.91	1.65	4.92	4.2	4.08

- Notes:
1. PDWS = Primary Drinking Water Standard (62-550 F.A.C.)
 2. SDWS = Secondary Drinking Water Standard (62-550 F.A.C.)
 3. GCTL = Groundwater Clean-Up Target Level (62-777 F.A.C.)
 4. NS = No numeric standard has been set for this analyte.
 5. --- = Parameter not analyzed.
 6. mg/L = milligrams per liter
 7. ug/L = micrograms per liter
 8. SU = Standard Units
 9. NTU = nephelometric turbidity units
 10. umhos/cm = micromhos per centimeter
 11. % Sat = percent saturation
 12. Yellow shaded values indicate parameter concentrations exceed primary, secondary drinking water standards, or groundwater cleanup target levels.
 13. Degrees C = degrees Celsius
 14. U = Analyte concentration was below the laboratory detection limit (value shown).
 15. I = Analyte concentration was between the laboratory detection limit and laboratory practical quantitation limit.
 16. V = Analyte was detected in the sample and associated method blank.
 17. Q = Sample held beyond the accepted holding time.
 18. Y = Laboratory analysis was from an improperly preserved sample. The data may not be accurate.
 19. Dry = Monitoring well purged dry and a sample was not collected.

Summary of Detected Parameters, MW-3B

Parameter	Standard	MCL	Units	1/5/2010	6/24/2010	12/16/2010	6/23/2011	12/21/2011	7/5/2012	12/14/2012	6/26/2013
Volatile Organic Compounds											
Acetone	GCTL	6300	ug/L	1.9 U	1.9 U	4.2 IV	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
Benzene	PDWS	1	ug/L	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.18 U	0.16 U
Carbon disulfide	GCTL	700	ug/L	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U
Chloroform	GCTL	70	ug/L	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.29 U	0.16 U
Chloromethane	GCTL	2.7	ug/L	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Ethylbenzene	SDWS	30	ug/L	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.12 U	0.16 U
Methylene chloride	PDWS	5	ug/L	0.32 U	0.32 U	0.32 U	0.39 IV	0.32 U	0.32 U	0.36 U	0.32 U
Toluene	SDWS	40	ug/L	---	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.23 U	0.17 U
Trihalomethanes, Total	PDWS	80	ug/L	---	---	---	---	---	---	0.1 U	---
Vinyl Chloride	PDWS	1	ug/L	0.4 U	0.4 U	0.4 U	0.1 U	0.1 U	0.1 U	0.33 U	0.1 U
m-Xylene & p-Xylene	See below	See below	ug/L	---	---	---	---	---	---	0.42 U	---
Xylenes (total)	SDWS	20	ug/L	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.27 U	0.19 U
Semi-volatile Organic Compounds											
Bis(2-ethylhexyl) phthalate	PDWS	6	ug/L	---	---	---	---	---	---	0.53 U	---
Metals											
Aluminum	SDWS	200	ug/L	1900	690	790	320	430	310	110	120
Antimony	PDWS	6	ug/L	0.078 I	0.07 U	0.07 U	0.07 U	0.2 U	0.4 U	0.16 U	0.4 U
Arsenic	PDWS	10	ug/L	1 I	0.49 I	0.28 I	0.25 I	0.33 U	0.33 U	0.5 U	0.33 I
Barium	PDWS	2000	ug/L	67 V	62	71	69	77	63	---	42
Beryllium	PDWS	4	ug/L	0.19 I	0.08 U	0.091 I	0.08 U	0.08 U	0.08 U	0.15 U	0.08 U
Cadmium	PDWS	5	ug/L	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U
Chromium	PDWS	100	ug/L	4.9 I	2.7 I	2.8 I	1.7 I	1.7 I	1.9 I	1.6 I	1.8 I
Cobalt	GCTL	140	ug/L	1.2 U	0.12 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
Copper	SDWS	1000	ug/L	1.4 U	0.43 I	1.4 U	1.4 U	5.9 IV	1.4 U	1.4 U	1.7 I
Iron	SDWS	300	ug/L	920	470	450	170	280	110	61 I	64 I
Lead	PDWS	15	ug/L	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U
Manganese	SDWS	50	ug/L	26	11	15	5.8 I	7.3 I	3.3 I	4.9 I	7.8 I
Mercury	PDWS	2	ug/L	0.027 U	0.027 U	0.027 U	0.027 U	0.031 IV	0.027 U	0.027 U	0.027 U
Nickel	PDWS	100	ug/L	1.7 I	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
Selenium	PDWS	50	ug/L	4.9 U	4.9 U	4.9 U	5.4 IV	4.9 U	4.9 U	4.9 U	4.9 U
Silver	SDWS	100	ug/L	0.93 U	0.93 U	1.1 I	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U
Sodium	PDWS	160	mg/L	2.1	2.3	1.8 V	1.7	2.1 V	2.4	2.6 IV	3.6
Thallium	PDWS	2	ug/L	0.096 I	0.085 IV	0.073 IV	0.073 I	0.066 I	0.078 I	0.066 U	0.1 I
Vanadium	GCTL	49	ug/L	4.5 IV	3.3 I	3.4 I	1.6 I	2.1 I	1.8 I	2 I	2 I
Zinc	SDWS	5000	ug/L	9.3 I	5.2 I	7 I	4.5 U	6.6 I	6.8 I	7.7 IV	4.9 I
Herbicides											
Dinoseb	PDWS	7	ug/L	---	---	---	---	---	---	0.17 U	---
Radiochemistry											
Gross Alpha	PDWS	15	PCI/L	5.8	6.1	10	---	---	---	3.28	4.2
Radium-226	PDWS	5	PCI/L	---	---	---	---	---	---	1.59	---
Radium-228	PDWS	5	PCI/L	---	---	---	---	---	---	0.25 U	---
General Chemistry											
Cyanide, Total	PDWS	0.2	mg/L	---	---	---	---	---	---	0.002 U	---
Ammonia as N	GCTL	2.8	mg/L	0.022 U	0.038 I	0.05 IV	0.12 V	0.025 I	0.055 IV	0.022 U	0.022 U
Total Alkalinity	NS	NS	mg/L	67	---	52	---	53 V	---	49	---
Chloride	SDWS	250	mg/L	3.5	3.5	2.7 I	2.9 I	2.9 I	3.9	3.3	6.6
Coliform, Total	PDWS	2500	#/100 mL	---	---	---	---	---	---	210	---
Di(2-ethylhexyl)adipate	PDWS	400	ug/L	---	---	---	---	---	---	0.58 U	---
Fluoride	SDWS	2	mg/L	---	---	---	---	---	---	0.097 I	---
Methylene Blue Active Substances	NS	NS	mg/I LAS MW 340	---	---	---	---	---	---	0.12 I	---
Nitrate (as N)	PDWS	10	mg/L	1.8	1.9	2.2	2.3	2.9	2.4	3	1.7
Nitrate/Nitrite	PDWS	10	mg/L	---	---	---	---	---	---	3.8	---
Nitrite (as N)	PDWS	1	mg/L	---	---	---	---	---	---	0.049 U	---
Total Dissolved Solids	SDWS	500	mg/L	110	110 V	87	88	83	100	110 V	92
Total Sulfide	NS	NS	mg/L	---	---	---	---	---	---	0.79 U	---
Sulfate	SDWS	250	mg/L	---	---	---	---	---	---	8.9	---
Field Parameters											
Conductivity	NS	NS	umhos/cm	166	165	122	106	121	151	120	203
Dissolved Oxygen	NS	NS	mg/L	1.5	1.9	2.1	1.9	5.5	4.8	2.4	3.1
Dissolved Oxygen	MPIS	20	% Sat.	15.51	23	24.95	23	66.57	55.95	27.98	39.62
Field pH	SDWS	6.5-8.5	SU	6.44	7.28	6.37	6.56	5.57	5.67	6.22	7.64
Field Temperature	NS	NS	Degrees C	16.8	25.1	23.9	24.9	24.6	23.3	22.7	27.7
Turbidity	NS	NS	NTU	10.3	7.88	3.11	4.24	8.04	5.76	4.86	2.75

- Notes:
1. PDWS = Primary Drinking Water Standard (62-550 F.A.C.)
 2. SDWS = Secondary Drinking Water Standard (62-550 F.A.C.)
 3. GCTL = Groundwater Clean-Up Target Level (62-777 F.A.C.)
 4. NS = No numeric standard has been set for this analyte.
 5. --- = Parameter not analyzed.
 6. mg/L = milligrams per liter
 7. ug/L = micrograms per liter
 8. SU = Standard Units
 9. NTU = nephelometric turbidity units
 10. umhos/cm = micromhos per centimeter
 11. % Sat = percent saturation
 12. Yellow shaded values indicate parameter concentrations exceed primary, secondary drinking water standards, or groundwater cleanup target levels.
 13. Degrees C = degrees Celsius
 14. U = Analyte concentration was below the laboratory detection limit (value shown).
 15. I = Analyte concentration was between the laboratory detection limit and laboratory practical quantitation limit.
 16. V = Analyte was detected in the sample and associated method blank.
 17. Q = Sample held beyond the accepted holding time.
 18. Y = Laboratory analysis was from an improperly preserved sample. The data may not be accurate.
 19. Dry = Monitoring well purged dry and a sample was not collected.

Summary of Detected Parameters, MW-4A

Parameter	Standard	MCL	Units	1/5/2010	6/24/2010	12/16/2010	6/23/2011	12/21/2011	7/5/2012	12/17/2012	6/26/2013
Volatile Organic Compounds											
Acetone	GCTL	6300	ug/L	1.9 U	1.9 U	3.1 IV	1.9 U	1.9 U	1.9 U	1.9 U	4 I
Benzene	PDWS	1	ug/L	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.18 U	0.16 U
Carbon disulfide	GCTL	700	ug/L	0.45 U	0.45 U	0.45 U	1.3 I	0.45 U	0.45 U	0.45 U	0.45 U
Chloroform	GCTL	70	ug/L	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.29 U	0.16 U
Chloromethane	GCTL	2.7	ug/L	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Ethylbenzene	SDWS	30	ug/L	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.12 U	0.16 U
Methylene chloride	PDWS	5	ug/L	0.32 U	0.32 U	0.32 U	0.37 IV	0.32 U	0.32 U	0.36 U	0.32 U
Toluene	SDWS	40	ug/L	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.23 U	0.17 U
Trihalomethanes, Total	PDWS	80	ug/L	---	---	---	---	---	---	0.1 U	---
Vinyl Chloride	PDWS	1	ug/L	0.4 U	0.4 U	0.4 U	0.1 U	0.1 U	0.1 U	0.33 U	0.1 U
m-Xylene & p-Xylene	See below	See below	ug/L	---	---	---	---	---	---	0.42 U	---
Xylenes (total)	SDWS	20	ug/L	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.27 U	0.19 U
Semi-volatile Organic Compounds											
Bis(2-ethylhexyl) phthalate	PDWS	6	ug/L	---	---	---	---	---	---	2.7 I	---
Metals											
Aluminum	SDWS	200	ug/L	400	140	120	150	60 I	62 I	22 I	150
Antimony	PDWS	6	ug/L	0.14 I	0.12 I	0.1 I	0.44 I	0.2 U	0.4 U	0.51 I	0.4 U
Arsenic	PDWS	10	ug/L	0.24 I	0.22 I	0.21 U	0.24 I	0.33 U	0.33 U	0.5 U	0.33 U
Barium	PDWS	2000	ug/L	23 V	22	23	19	20	17	---	19
Beryllium	PDWS	4	ug/L	0.08 U	0.083 I	0.13 I	0.1 I	0.12 I	0.091 I	0.32 I	0.11 I
Cadmium	PDWS	5	ug/L	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U
Chromium	PDWS	100	ug/L	1.2 I	0.72 I	0.66 U	0.92 I	0.66 U	0.66 U	0.66 U	0.96 I
Cobalt	GCTL	140	ug/L	1.2 U	0.12 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
Copper	SDWS	1000	ug/L	1.4 U	0.23 I	2.2 I	1.4 U	5.9 IV	1.4 U	1.4 U	1.9 I
Iron	SDWS	300	ug/L	140	82 I	71 I	76 I	83 I	27 I	22 U	160
Lead	PDWS	15	ug/L	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U
Manganese	SDWS	50	ug/L	52	26	27	26	28	21	26	32
Mercury	PDWS	2	ug/L	0.027 U	0.027 U	0.027 U	0.027 U	0.032 IV	0.027 U	0.027 U	0.027 U
Nickel	PDWS	100	ug/L	3 I	3.1 I	4.1 I	3 I	3.3 I	2.5 I	2.8 I	3.1 I
Selenium	PDWS	50	ug/L	4.9 U	4.9 U	4.9 U	4.9 U	4.9 U	4.9 U	4.9 U	4.9 U
Silver	SDWS	100	ug/L	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 IV
Sodium	PDWS	160	mg/L	1.4	1.4	1.4 V	1.3	1.2 V	1	4.9 IV	1.4
Thallium	PDWS	2	ug/L	0.02 U	0.02 U	0.02 U	0.02 U	0.033 U	0.05 U	0.28 I	0.05 U
Vanadium	GCTL	49	ug/L	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
Zinc	SDWS	5000	ug/L	190	180	200	180	300	160	230 V	230
Herbicides											
Dinoseb	PDWS	7	ug/L	---	---	---	---	---	---	0.22 U	---
Radiochemistry											
Gross Alpha	PDWS	15	PCi/L	3 U	3 IV	3 U	---	---	---	0.12 U	0.57 U
Radium-226	PDWS	5	PCi/L	---	---	---	---	---	---	0.132	---
Radium-228	PDWS	5	PCi/L	---	---	---	---	---	---	0.216 U	---
General Chemistry											
Cyanide, Total	PDWS	0.2	mg/L	---	---	---	---	---	---	0.0027 I	---
Ammonia as N	GCTL	2.8	mg/L	0.022 U	0.022 U	0.045 IV	0.062 IV	0.022 U	0.1 V	0.022 U	0.022 U
Total Alkalinity	NS	NS	mg/L	1.6 I	---	1.4 I	---	1.1 U	---	1.2 I	---
Chloride	SDWS	250	mg/L	2.8 I	2 I	2.5 I	1.9 I	1.8 I	1.8 I	1.7 I	1.8 I
Coliform, Total	PDWS	2500	#/100 mL	---	---	---	---	---	---	1 U	---
Di(2-ethylhexyl)adipate	PDWS	400	ug/L	---	---	---	---	---	---	0.59 U	---
Fluoride	SDWS	2	mg/L	---	---	---	---	---	---	0.06 U	---
Methylene Blue Active Substances	NS	NS	mg/I LAS MW 340	---	---	---	---	---	---	0.12 U	---
Nitrate (as N)	PDWS	10	mg/L	1.6	2	1.3	2	2.5	2	1.1	1.2
Nitrate/Nitrite	PDWS	10	mg/L	---	---	---	---	---	---	1.4	---
Nitrite (as N)	PDWS	1	mg/L	---	---	---	---	---	---	0.049 U	---
Total Dissolved Solids	SDWS	500	mg/L	52	61 V	37	44	50	40	28	19
Total Sulfide	NS	NS	mg/L	---	---	---	---	---	---	0.79 U	---
Sulfate	SDWS	250	mg/L	---	---	---	---	---	---	15	---
Field Parameters											
Conductivity	NS	NS	umhos/cm	64	69	67	59	59	55	56	57
Dissolved Oxygen	NS	NS	mg/L	2.2	1.3	1.1	1	0.8	0.6	0.8	0.6
Dissolved Oxygen	MPIS	20	% Sat.	24.67	16.03	13.31	12.1	9.68	7.13	10.04	7.53
Field pH	SDWS	6.5-8.5	SU	5.75	5.1	5.14	5.03	4.98	4.93	4.73	4.78
Field Temperature	NS	NS	Degrees C	20.6	26.5	24.9	25.1	25.3	23.9	26.8	27.3
Turbidity	NS	NS	NTU	1.8	3.41	3.45	5	1.42	4.14	3.91	2.18

- Notes:
1. PDWS = Primary Drinking Water Standard (62-550 F.A.C.)
 2. SDWS = Secondary Drinking Water Standard (62-550 F.A.C.)
 3. GCTL = Groundwater Clean-Up Target Level (62-777 F.A.C.)
 4. NS = No numeric standard has been set for this analyte.
 5. --- = Parameter not analyzed.
 6. mg/L = milligrams per liter
 7. ug/L = micrograms per liter
 8. SU = Standard Units
 9. NTU = nephelometric turbidity units
 10. umhos/cm = micromhos per centimeter
 11. % Sat = percent saturation
 12. Yellow shaded values indicate parameter concentrations exceed primary, secondary drinking water standards, or groundwater cleanup target levels.
 13. Degrees C = degrees Celsius
 14. U = Analyte concentration was below the laboratory detection limit (value shown).
 15. I = Analyte concentration was between the laboratory detection limit and laboratory practical quantitation limit.
 16. V = Analyte was detected in the sample and associated method blank.
 17. Q = Sample held beyond the accepted holding time.
 18. Y = Laboratory analysis was from an improperly preserved sample. The data may not be accurate.
 19. Dry = Monitoring well purged dry and a sample was not collected.

Summary of Detected Parameters, MW-4B

Parameter	Standard	MCL	Units	1/5/2010	6/24/2010	12/16/2010	6/23/2011	12/21/2011	7/5/2012	12/17/2012	6/26/2013
Volatile Organic Compounds											
Acetone	GCTL	6300	ug/L	1.9 U	1.9 U	2.8 IV	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
Benzene	PDWS	1	ug/L	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.18 U	0.16 U
Carbon disulfide	GCTL	700	ug/L	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U
Chloroform	GCTL	70	ug/L	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.29 U	0.16 U
Chloromethane	GCTL	2.7	ug/L	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Ethylbenzene	SDWS	30	ug/L	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.12 U	0.16 U
Methylene chloride	PDWS	5	ug/L	0.32 U	0.32 U	0.32 U	0.39 IV	0.32 U	0.32 U	0.36 U	0.32 U
Toluene	SDWS	40	ug/L	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.23 U	0.17 U
Trihalomethanes, Total	PDWS	80	ug/L	---	---	---	---	---	---	0.1 U	---
Vinyl Chloride	PDWS	1	ug/L	0.4 U	0.4 U	0.4 U	0.1 U	0.1 U	0.1 U	0.33 U	0.1 U
m-Xylene & p-Xylene	See below	See below	ug/L	---	---	---	---	---	---	0.42 U	---
Xylenes (total)	SDWS	20	ug/L	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.27 U	0.19 U
Semi-volatile Organic Compounds											
Bis(2-ethylhexyl) phthalate	PDWS	6	ug/L	---	---	---	---	---	---	2.2 I	---
Metals											
Aluminum	SDWS	200	ug/L	580	540	250	66 I	79 I	26 I	61 I	110
Antimony	PDWS	6	ug/L	0.12 I	0.1 I	0.11 I	0.07 U	0.2 U	0.4 U	0.17 I	0.4 U
Arsenic	PDWS	10	ug/L	0.25 I	0.31 I	0.27 I	0.21 U	0.33 U	0.33 U	0.5 U	0.33 U
Barium	PDWS	2000	ug/L	18 V	18	15	13	12	11	---	9.7 I
Beryllium	PDWS	4	ug/L	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.15 U	0.08 U
Cadmium	PDWS	5	ug/L	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U
Chromium	PDWS	100	ug/L	1.5 I	1.7 I	1.5 I	0.66 U	0.66 U	0.66 U	0.92 I	0.75 I
Cobalt	GCTL	140	ug/L	1.2 U	0.12 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
Copper	SDWS	1000	ug/L	1.4 U	0.69 I	1.4 U	1.4 U	5.8 IV	1.4 U	1.4 U	2.4 I
Iron	SDWS	300	ug/L	250	300	140	29 I	190	22 U	41 I	68 I
Lead	PDWS	15	ug/L	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U
Manganese	SDWS	50	ug/L	13	14	11	8.6 I	9.3 I	8.3 I	8.9 I	8.3 I
Mercury	PDWS	2	ug/L	0.027 U	0.027 U	0.027 U	0.027 U	0.033 IV	0.027 U	0.027 U	0.027 U
Nickel	PDWS	100	ug/L	2.9 I	2.7 I	2.9 I	2.4 I	2.2 I	2 I	2.6 I	2.2 I
Selenium	PDWS	50	ug/L	4.9 U	4.9 U	4.9 U	4.9 U	4.9 U	4.9 U	4.9 U	4.9 U
Silver	SDWS	100	ug/L	0.93 U	0.93 U	1.1 I	0.93 U	0.93 U	1 I	0.93 U	1.2 IV
Sodium	PDWS	160	mg/L	1.3	1.2	1.2 V	1.2	1.3 V	1.1	37 V	1
Thallium	PDWS	2	ug/L	0.02 U	0.02 U	0.02 U	0.02 U	0.033 U	0.05 U	0.15 I	0.05 U
Vanadium	GCTL	49	ug/L	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
Zinc	SDWS	5000	ug/L	6.1 I	6.9 I	9.8 I	4.5 U	5.8 I	5.1 I	8 IV	7.6 I
Herbicides											
Dinoseb	PDWS	7	ug/L	---	---	---	---	---	---	0.23 I	---
Radiochemistry											
Gross Alpha	PDWS	15	PCI/L	3 IV	3 IV	3 U	---	---	---	0.14 U	0.791
Radium-226	PDWS	5	PCI/L	---	---	---	---	---	---	0.111	---
Radium-228	PDWS	5	PCI/L	---	---	---	---	---	---	0.104 U	---
General Chemistry											
Cyanide, Total	PDWS	0.2	mg/L	---	---	---	---	---	---	0.003 I	---
Ammonia as N	GCTL	2.8	mg/L	0.022 U	0.022 U	0.05 IV	0.022 U	0.022 I	0.049 IV	0.022 U	0.022 U
Total Alkalinity	NS	NS	mg/L	2.7 I	---	4.1 I	---	1.9 IV	---	2 I	---
Chloride	SDWS	250	mg/L	3.2	2.6 I	2.6 I	2.4 I	2.4 I	2.6 I	2.4 I	2.4 I
Coliform, Total	PDWS	2500	#/100 mL	---	---	---	---	---	---	1 U	---
Di(2-ethylhexyl)adipate	PDWS	400	ug/L	---	---	---	---	---	---	0.58 U	---
Fluoride	SDWS	2	mg/L	---	---	---	---	---	---	0.06 U	---
Methylene Blue Active Substances	NS	NS	mg/I LAS MW 340	---	---	---	---	---	---	0.12 U	---
Nitrate (as N)	PDWS	10	mg/L	3	2.5	2.6	2.5	2.5	1.9	2	1.5
Nitrate/Nitrite	PDWS	10	mg/L	---	---	---	---	---	---	2.1	---
Nitrite (as N)	PDWS	1	mg/L	---	---	---	---	---	---	0.049 U	---
Total Dissolved Solids	SDWS	500	mg/L	44	53	45	36	37	4.7 U	24	16
Total Sulfide	NS	NS	mg/L	---	---	---	---	---	---	0.79 U	---
Sulfate	SDWS	250	mg/L	---	---	---	---	---	---	2.2 I	---
Field Parameters											
Conductivity	NS	NS	umhos/cm	49	47	47	43	41	39	33	33
Dissolved Oxygen	NS	NS	mg/L	2.3	0.9	0.8	0.6	0.5	0.6	0.7	6.4
Dissolved Oxygen	MPIS	20	% Sat.	26.3	11.3	9.68	7.26	6.05	7.13	8.32	81.79
Field pH	SDWS	6.5-8.5	SU	4.82	5.43	5.44	5.37	5.34	5.35	5.66	5
Field Temperature	NS	NS	Degrees C	21.9	27.1	24.6	25	24.9	23.6	24.3	28.1
Turbidity	NS	NS	NTU	4.5	10.06	9.76	2.83	1.26	3.03	3.49	4.04

- Notes:
1. PDWS = Primary Drinking Water Standard (62-550 F.A.C.)
 2. SDWS = Secondary Drinking Water Standard (62-550 F.A.C.)
 3. GCTL = Groundwater Clean-Up Target Level (62-777 F.A.C.)
 4. NS = No numeric standard has been set for this analyte.
 5. --- = Parameter not analyzed.
 6. mg/L = milligrams per liter
 7. ug/L = micrograms per liter
 8. SU = Standard Units
 9. NTU = nephelometric turbidity units
 10. umhos/cm = micromhos per centimeter
 11. % Sat = percent saturation
 12. Yellow shaded values indicate parameter concentrations exceed primary, secondary drinking water standards, or groundwater cleanup target levels.
 13. Degrees C = degrees Celsius
 14. U = Analyte concentration was below the laboratory detection limit (value shown).
 15. I = Analyte concentration was between the laboratory detection limit and laboratory practical quantitation limit.
 16. V = Analyte was detected in the sample and associated method blank.
 17. Q = Sample held beyond the accepted holding time.
 18. Y = Laboratory analysis was from an improperly preserved sample. The data may not be accurate.
 19. Dry = Monitoring well purged dry and a sample was not collected.

Summary of Detected Parameters, MW-5A

Parameter	Standard	MCL	Units	1/5/2010	6/24/2010	12/16/2010	6/23/2011	12/22/2011	7/5/2012	12/20/2012	6/26/2013
Volatile Organic Compounds											
Acetone	GCTL	6300	ug/L	1.9 U	1.9 U	3.2 IV	1.9 U	4.7 I	1.9 U	1.9 U	1.9 U
Benzene	PDWS	1	ug/L	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
Carbon disulfide	GCTL	700	ug/L	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U
Chloroform	GCTL	70	ug/L	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
Chloromethane	GCTL	2.7	ug/L	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Ethylbenzene	SDWS	30	ug/L	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
Methylene chloride	PDWS	5	ug/L	0.32 U	0.32 U	0.32 U	0.44 IV	0.58 IV	0.32 U	0.32 U	0.32 U
Toluene	SDWS	40	ug/L	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
Vinyl Chloride	PDWS	1	ug/L	0.4 U	0.4 U	0.4 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Xylenes (total)	SDWS	20	ug/L	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
Metals											
Aluminum	SDWS	200	ug/L	150	160	86 I	170	140	320	100	220
Antimony	PDWS	6	ug/L	0.07 U	0.07 U	0.07 U	0.07 U	0.2 U	0.4 U	0.4 U	0.4 U
Arsenic	PDWS	10	ug/L	0.21 U	0.21 U	0.21 U	0.21 U	0.33 U	0.33 U	0.33 U	0.33 U
Barium	PDWS	2000	ug/L	34 V	40	49	45	44	43	43	24
Beryllium	PDWS	4	ug/L	0.11 I	0.084 I	0.1 I	0.08 U	0.08 U	0.1 I	0.08 U	0.08 U
Cadmium	PDWS	5	ug/L	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U
Chromium	PDWS	100	ug/L	0.88 I	1.5 I	1.6 I	1.7 I	1.7 I	1.3 I	1.5 I	0.8 I
Cobalt	GCTL	140	ug/L	1.2 U	0.33 I	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
Copper	SDWS	1000	ug/L	1.4 U	0.29 I	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 I
Iron	SDWS	300	ug/L	29 I	40 I	22 I	50 I	33 I	84 I	22 U	80 I
Lead	PDWS	15	ug/L	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U
Manganese	SDWS	50	ug/L	13	13	6.7 I	4.7 I	5.2 I	5.2 I	4.2 I	20
Mercury	PDWS	2	ug/L	0.027 U	0.027 U	0.027 U	0.027 U	0.039 IV	0.027 U	0.034 IV	0.027 U
Nickel	PDWS	100	ug/L	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
Selenium	PDWS	50	ug/L	4.9 U	4.9 U	4.9 U	4.9 U	4.9 U	4.9 U	4.9 U	4.9 U
Silver	SDWS	100	ug/L	0.93 U	0.93 U	0.98 I	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U
Sodium	PDWS	160	mg/L	2.1	2	2.3 V	2.1	2.3	1.9	2.2 V	1.5
Thallium	PDWS	2	ug/L	0.031 I	0.036 IV	0.032 IV	0.036 I	0.033 I	0.05 U	0.092 I	0.05 U
Vanadium	GCTL	49	ug/L	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
Zinc	SDWS	5000	ug/L	57	22	15 I	6.7 I	7.3 I	6.9 I	8.3 IV	70
Radiochemistry											
Gross Alpha	PDWS	15	PCI/L	5.8	3.6	5	---	---	---	2.83	1.75
General Chemistry											
Ammonia as N	GCTL	2.8	mg/L	0.022 U	0.022 U	0.043 IV	0.13 V	0.022 U	0.064 IV	0.022 U	0.022 U
Total Alkalinity	NS	NS	mg/L	1.1 U		1.6 I		2.5 IV		1.2 I	
Chloride	SDWS	250	mg/L	2.7 I	2.4 I	2.9 I	2.5 I	2.8 I	2.7 I	2.8 I	2.7 I
Nitrate (as N)	PDWS	10	mg/L	2.8	2.8	3.2	1.2	2.1	1.5	2.4	2.7
Total Dissolved Solids	SDWS	500	mg/L	42	51	46	49	41	48	50	15
Field Parameters											
Conductivity	NS	NS	umhos/cm	56	64	71	67	59	69	56	65
Dissolved Oxygen	NS	NS	mg/L	2.3	2.2	2	1.9	4.8	4.3	4.2	2.5
Dissolved Oxygen	MPIS	20	% Sat.	26.3	27.62	24.21	23	59.17	51.08	45.26	31.38
Field pH	SDWS	6.5-8.5	SU	3.95	5.06	4.72	4.78	3.83	4.09	5.21	4.37
Field Temperature	NS	NS	Degrees C	21.5	26.8	25.3	25.3	26.5	24.3	19.3	27.3
Turbidity	NS	NS	NTU	2.5	2.39	3.5	6.7	9.47	7.14	6.27	5.89

- Notes:
1. PDWS = Primary Drinking Water Standard (62-550 F.A.C.)
 2. SDWS = Secondary Drinking Water Standard (62-550 F.A.C.)
 3. GCTL = Groundwater Clean-Up Target Level (62-777 F.A.C.)
 4. NS = No numeric standard has been set for this analyte.
 5. --- = Parameter not analyzed.
 6. mg/L = milligrams per liter
 7. ug/L = micrograms per liter
 8. SU = Standard Units
 9. NTU = nephelometric turbidity units
 10. umhos/cm = micromhos per centimeter
 11. % Sat = percent saturation
 12. Yellow shaded values indicate parameter concentrations exceed primary, secondary drinking water standards, or groundwater cleanup target levels.
 13. Degrees C = degrees Celsius
 14. U = Analyte concentration was below the laboratory detection limit (value shown).
 15. I = Analyte concentration was between the laboratory detection limit and laboratory practical quantitation limit.
 16. V = Analyte was detected in the sample and associated method blank.
 17. Q = Sample held beyond the accepted holding time.
 18. Y = Laboratory analysis was from an improperly preserved sample. The data may not be accurate.
 19. Dry = Monitoring well purged dry and a sample was not collected.

Summary of Detected Parameters, MW-SB

Parameter	Standard	MCL	Units	1/5/2010	6/24/2010	12/16/2010	6/23/2011	12/22/2011	7/5/2012	12/19/2012	6/26/2013
Volatile Organic Compounds											
Acetone	GCTL	6300	ug/L	1.9 U	1.9 U	2.7 IV	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
Benzene	PDWS	1	ug/L	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.18 U	0.16 U
Carbon disulfide	GCTL	700	ug/L	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U
Chloroform	GCTL	70	ug/L	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.29 U	0.16 U
Chloromethane	GCTL	2.7	ug/L	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Ethylbenzene	SDWS	30	ug/L	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.12 U	0.16 U
Methylene chloride	PDWS	5	ug/L	0.32 U	0.32 U	0.32 U	0.38 IV	0.56 IV	0.32 U	0.36 U	0.32 U
Toluene	SDWS	40	ug/L	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.23 U	0.17 U
Trihalomethanes, Total	PDWS	80	ug/L	---	---	---	---	---	---	0.1 U	---
Vinyl Chloride	PDWS	1	ug/L	0.4 U	0.4 U	0.4 U	0.1 U	0.1 U	0.1 U	0.33 U	0.1 U
m-Xylene & p-Xylene	See below	See below	ug/L	---	---	---	---	---	---	0.42 U	---
Xylenes (total)	SDWS	20	ug/L	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.27 U	0.19 U
Semi-volatile Organic Compounds											
Bis(2-ethylhexyl) phthalate	PDWS	6	ug/L	---	---	---	---	---	---	0.53 U	---
Metals											
Aluminum	SDWS	200	ug/L	3500	1600	420	700	1400	430	52 I	100
Antimony	PDWS	6	ug/L	0.2 I	0.17 I	0.2 I	0.18 I	0.2 U	0.4 U	0.34 I	0.4 U
Arsenic	PDWS	10	ug/L	7.9	6.1	8.7	7.2	6.6	6	8.3	8.3
Barium	PDWS	2000	ug/L	36 V	26	13	15	16	11	---	9.9 I
Beryllium	PDWS	4	ug/L	0.13 I	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.15 U	0.08 U
Cadmium	PDWS	5	ug/L	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U
Chromium	PDWS	100	ug/L	8.3 I	5.1 I	1.2 I	2 I	2.3 I	0.68 I	0.66 U	0.66 U
Cobalt	GCTL	140	ug/L	1.2 U	0.12 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
Copper	SDWS	1000	ug/L	1.4 U	1.3 I	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 I
Iron	SDWS	300	ug/L	1400	950	230	330	430	120	24 I	56 I
Lead	PDWS	15	ug/L	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U
Manganese	SDWS	50	ug/L	19	11	5.8 I	4.2 I	6.6 I	2.6 I	1.5 I	3.2 I
Mercury	PDWS	2	ug/L	0.027 U	0.027 U	0.027 U	0.027 U	0.035 IV	0.027 U	0.031 IV	0.027 U
Nickel	PDWS	100	ug/L	3 I	2 I	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
Selenium	PDWS	50	ug/L	4.9 U	4.9 U	4.9 U	4.9 U	4.9 U	4.9 U	4.9 U	4.9 U
Silver	SDWS	100	ug/L	0.93 U	0.93 U	1 I	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U
Sodium	PDWS	160	mg/L	3.9	4.1	3.5 V	3.7	3.8	3.9	4 IV	3.8
Thallium	PDWS	2	ug/L	0.21 I	0.22 IV	0.038 IV	0.089 I	0.087 I	0.12 I	0.067 IV	0.05 U
Vanadium	GCTL	49	ug/L	7 IV	5 I	1.1 I	1.4 I	2.7 I	1.3 I	1.1 U	1.1 U
Zinc	SDWS	5000	ug/L	11 I	8 I	4.5 U	5.2 I	4.6 I	4.5 U	6.3 IV	4.5 U
Herbicides											
Dinoseb	PDWS	7	ug/L	---	---	---	---	---	---	0.17 U	---
Radiochemistry											
Gross Alpha	PDWS	15	PCI/L	15.8	16.6	27.1	---	---	---	10.3	5.22
Radium-226	PDWS	5	PCI/L	---	---	---	---	---	---	2.22	---
Radium-228	PDWS	5	PCI/L	---	---	---	---	---	---	0.145 U	---
General Chemistry											
Cyanide, Total	PDWS	0.2	mg/L	---	---	---	---	---	---	0.0026 I	---
Ammonia as N	GCTL	2.8	mg/L	0.022 U	0.022 U	0.044 IV	0.12 V	0.022 U	0.091 IV	0.022 U	0.022 U
Total Alkalinity	NS	NS	mg/L	83	---	83	---	86 V	---	86	---
Chloride	SDWS	250	mg/L	7.7	7.4	7.3	7.9	7.7	8.7	8	7.5
Coliform, Total	PDWS	2500	#/100 mL	---	---	---	---	---	---	1 U	---
Di(2-ethylhexyl)adipate	PDWS	400	ug/L	---	---	---	---	---	---	0.58 U	---
Fluoride	SDWS	2	mg/L	---	---	---	---	---	---	0.12 I	---
MBAS	NS	NS	mg/l LAS MW 340	---	---	---	---	---	---	0.05 U	---
Nitrate (as N)	PDWS	10	mg/L	1.1	1.5	0.64	0.77	0.51	0.53	0.31 I	0.54
Nitrate/Nitrite	PDWS	10	mg/L	---	---	---	---	---	---	0.28	---
Nitrite (as N)	PDWS	1	mg/L	---	---	---	---	---	---	0.1 U	---
Total Dissolved Solids	SDWS	500	mg/L	120	150	130	120	110	130	140	110
Total Sulfide	NS	NS	mg/L	---	---	---	---	---	---	0.79 U	---
Sulfate	SDWS	250	mg/L	---	---	---	---	---	---	13	---
Field Parameters											
Conductivity	NS	NS	umhos/cm	216	217	212	205	200	220	208	219
Dissolved Oxygen	NS	NS	mg/L	0 T	0	0.3	0.3	0	0	0	0.1
Dissolved Oxygen	MPIS	20	% Sat.	0	0	3.56	3.63	0	0	0	1.28
Field pH	SDWS	6.5-8.5	SU	7.44	7.85	7.71	7.98	7.16	7.28	7.34	7.46
Field Temperature	NS	NS	Degrees C	18.9	25.4	24.5	25	25.9	23.7	23.8	28.3
Turbidity	NS	NS	NTU	19.1	13.6	2.15	5.16	8.71	7.82	5.03	3.19

- Notes:
1. PDWS = Primary Drinking Water Standard (62-550 F.A.C.)
 2. SDWS = Secondary Drinking Water Standard (62-550 F.A.C.)
 3. GCTL = Groundwater Clean-Up Target Level (62-777 F.A.C.)
 4. NS = No numeric standard has been set for this analyte.
 5. --- = Parameter not analyzed.
 6. mg/L = milligrams per liter
 7. ug/L = micrograms per liter
 8. SU = Standard Units
 9. NTU = nephelometric turbidity units
 10. umhos/cm = micromhos per centimeter
 11. % Sat = percent saturation
 12. Yellow shaded values indicate parameter concentrations exceed primary, secondary drinking water standards, or groundwater cleanup target levels.
 13. Degrees C = degrees Celsius
 14. U = Analyte concentration was below the laboratory detection limit (value shown).
 15. I = Analyte concentration was between the laboratory detection limit and laboratory practical quantitation limit.
 16. V = Analyte was detected in the sample and associated method blank.
 17. Q = Sample held beyond the accepted holding time.
 18. Y = Laboratory analysis was from an improperly preserved sample. The data may not be accurate.
 19. Dry = Monitoring well purged dry and a sample was not collected.

Summary of Detected Parameters, MW-6AR

Parameter	Standard	MCL	Units	1/5/2010	6/24/2010	12/17/2010	6/23/2011	12/22/2011	7/6/2012	12/20/2012	6/26/2013
Volatile Organic Compounds											
Acetone	GCTL	6300	ug/L	1.9 U	1.9 U	3.2 IV	1.9 U	3.5 I	1.9 U	1.9 U	1.9 U
Benzene	PDWS	1	ug/L	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.18 U	0.16 U
Carbon disulfide	GCTL	700	ug/L	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U
Chloroform	GCTL	70	ug/L	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.29 U	0.16 U
Chloromethane	GCTL	2.7	ug/L	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Ethylbenzene	SDWS	30	ug/L	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.12 U	0.16 U
Methylene chloride	PDWS	5	ug/L	0.32 U	0.32 U	0.32 U	0.37 IV	0.55 IV	0.32 U	0.36 U	0.32 U
Toluene	SDWS	40	ug/L	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 UJ	0.23 U	0.17 U
Trihalomethanes, Total	PDWS	80	ug/L	---	---	---	---	---	---	0.1 U	---
Vinyl Chloride	PDWS	1	ug/L	0.4 U	0.4 U	0.4 U	0.1 U	0.1 U	0.1 U	0.33 U	0.1 U
m-Xylene & p-Xylene	See below	See b elow	ug/L	---	---	---	---	---	---	0.42 U	---
Xylenes (total)	SDWS	20	ug/L	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.27 U	0.19 U
Semi-volatile Organic Compounds											
Bis(2-ethylhexyl) phthalate	PDWS	6	ug/L	---	---	---	---	---	---	0.53 U	---
Metals											
Aluminum	SDWS	200	ug/L	41 I	67 I	66 I	92 I	470	180	100	730
Antimony	PDWS	6	ug/L	0.07 U	0.07 U	0.1 I	0.07 U	0.2 U	0.4 U	0.16 U	0.4 U
Arsenic	PDWS	10	ug/L	0.21 U	0.21 U	0.21 U	0.27 I	0.33 U	0.33 U	0.5 U	0.38 I
Barium	PDWS	2000	ug/L	18 V	16	17 V	18	20	21	---	24
Beryllium	PDWS	4	ug/L	0.08 U	0.08 U	0.08 I	0.08 U	0.08 U	0.08 U	0.15 U	0.17 I
Cadmium	PDWS	5	ug/L	0.45 U	0.45 U	0.45 U	0.45 U	0.48 I	0.45 U	0.56 I	0.9 I
Chromium	PDWS	100	ug/L	1.3 I	1.2 I	0.7 I	1.1 I	2.7 I	1.5 I	1.7 I	4.1 I
Cobalt	GCTL	140	ug/L	1.2 U	0.12 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
Copper	SDWS	1000	ug/L	1.4 U	0.14 U	2.3 I	1.4 U	1.4 U	1.4 U	1.4 U	2.5 I
Iron	SDWS	300	ug/L	59 I	33 I	22 U	46 I	250	76 I	53 I	510
Lead	PDWS	15	ug/L	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U
Manganese	SDWS	50	ug/L	4.4 I	4.5 I	4.3 IV	4.6 I	17	12	6.7 I	12
Mercury	PDWS	2	ug/L	0.13 I	0.027 U	0.039 I	0.027 U	0.092 IV	0.027 U	0.054 IV	0.16 I
Nickel	PDWS	100	ug/L	1.3 U	1.3 U	1.3 U	1.3 I	1.7 I	1.3 U	1.3 U	2.3 I
Selenium	PDWS	50	ug/L	4.9 U	4.9 U	4.9 U	12 IV	4.9 U	4.9 U	4.9 U	4.9 U
Silver	SDWS	100	ug/L	0.93 U	0.93 U	0.93 U	1.1 I	0.93 U	0.93 U	0.93 U	0.93 U
Sodium	PDWS	160	mg/L	11	11	9.9	11	11	12	11 V	11
Thallium	PDWS	2	ug/L	0.045 I	0.063 IV	0.055 I	0.067 I	0.05 I	0.063 I	0.068 IV	0.075 I
Vanadium	GCTL	49	ug/L	1.1 U	1.1 U	1.1 U	1.1 U	2 I	1.1 U	1.1 U	2.5 I
Zinc	SDWS	5000	ug/L	4.5 U	4.5 U	4.5 U	4.5 U	6.2 I	5.3 I	7.5 IV	9.9 I
Herbicides											
Dinoseb	PDWS	7	ug/L	---	---	---	---	---	---	0.17 U	---
Radiochemistry											
Gross Alpha	PDWS	15	PCi/L	3.1	3 IV	3 I	---	---	---	3.49	3.11
Radium-226	PDWS	5	PCi/L	---	---	---	---	---	---	1.76	---
Radium-228	PDWS	5	PCi/L	---	---	---	---	---	---	0.0654 U	---
General Chemistry											
Cyanide, Total	PDWS	0.2	mg/L	---	---	---	---	---	---	0.0035 IV	---
Ammonia as N	GCTL	2.8	mg/L	0.022 U	0.022 U	0.057 IV	0.13 V	0.022 U	0.051 IV	0.022 U	0.022 U
Total Alkalinity	NS	NS	mg/L	11	---	13	---	24 V	---	15	---
Chloride	SDWS	250	mg/L	20	17	15	19	17	24	21	22
Coliform, Total	PDWS	2500	#/100 mL	---	---	---	---	---	---	1 U	---
Di(2-ethylhexyl)adipate	PDWS	400	ug/L	---	---	---	---	---	---	0.62 U	---
Fluoride	SDWS	2	mg/L	---	---	---	---	---	---	0.33 I	---
Methylene Blue Active Substances	NS	NS	mg/I LAS MW 340	---	---	---	---	---	---	0.12 U	---
Nitrate (as N)	PDWS	10	mg/L	11	11	11	13	13	12	13	12
Nitrate/Nitrite	PDWS	10	mg/L	---	---	---	---	---	---	15	---
Nitrite (as N)	PDWS	1	mg/L	---	---	---	---	---	---	0.049 U	---
Total Dissolved Solids	SDWS	500	mg/L	120	170	120	160	130	180	130	150
Total Sulfide	NS	NS	mg/L	---	---	---	---	---	---	0.79 U	---
Sulfate	SDWS	250	mg/L	---	---	---	---	---	---	1 I	---
Field Parameters											
Conductivity	NS	NS	umhos/cm	162	188	182	218	203	219	223	223
Dissolved Oxygen	NS	NS	mg/L	0.7	0.7	1.7	1.5	6.4	5.9	3.7	3.8
Dissolved Oxygen	MPIS	20	% Sat.	7.54	8.79	19.82	18.15	76.03	70.09	44.78	47.7
Field pH	SDWS	6.5-8.5	SU	6.02	5.64	5.7	5.78	4.66	4.82	4.96	4.87
Field Temperature	NS	NS	Degrees C	19.2	27.3	23.3	24.9	24.5	23.7	24.6	26.9
Turbidity	NS	NS	NTU	2.6	1.88	0.48	2.11	0.91	1.91	3.05	4.94

- Notes:
1. PDWS = Primary Drinking Water Standard (62-550 F.A.C.)
 2. SDWS = Secondary Drinking Water Standard (62-550 F.A.C.)
 3. GCTL = Groundwater Clean-Up Target Level (62-777 F.A.C.)
 4. NS = No numeric standard has been set for this analyte.
 5. --- = Parameter not analyzed.
 6. mg/L = milligrams per liter
 7. ug/L = micrograms per liter
 8. SU = Standard Units
 9. NTU = nephelometric turbidity units
 10. umhos/cm = micromhos per centimeter
 11. % Sat = percent saturation
 12. Yellow shaded values indicate parameter concentrations exceed primary, secondary drinking water standards, or groundwater cleanup target levels.
 13. Degrees C = degrees Celsius
 14. U = Analyte concentration was below the laboratory detection limit (value shown).
 15. I = Analyte concentration was between the laboratory detection limit and laboratory practical quantitation limit.
 16. V = Analyte was detected in the sample and associated method blank.
 17. Q = Sample held beyond the accepted holding time.
 18. Y = Laboratory analysis was from an improperly preserved sample. The data may not be accurate.
 19. Dry = Monitoring well purged dry and a sample was not collected.

Summary of Detected Parameters, MW-6BR

Parameter	Standard	MCL	Units	1/5/2010	6/24/2010	12/17/2010	6/23/2011	12/22/2011	7/6/2012	12/19/2012	6/26/2013
Volatile Organic Compounds											
Acetone	GCTL	6300	ug/L	1.9 U	1.9 U	3 IV	1.9 U	2.4 I	1.9 U	1.9 U	1.9 U
Benzene	PDWS	1	ug/L	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.18 U	0.16 U
Carbon disulfide	GCTL	700	ug/L	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U
Chloroform	GCTL	70	ug/L	0.42 I	0.46 I	0.5 I	0.43 I	0.58 I	0.45 I	0.58	0.37 I
Chloromethane	GCTL	2.7	ug/L	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Ethylbenzene	SDWS	30	ug/L	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.12 U	0.16 U
Methylene chloride	PDWS	5	ug/L	0.32 U	0.32 U	0.32 U	0.38 IV	0.57 IV	0.32 U	0.36 U	0.32 U
Toluene	SDWS	40	ug/L	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 UJ	0.23 U	0.17 U
Trihalomethanes, Total	PDWS	80	ug/L	---	---	---	---	---	---	0.58	---
Vinyl Chloride	PDWS	1	ug/L	0.4 U	0.4 U	0.4 U	0.1 U	0.1 U	0.1 U	0.33 U	0.1 U
m-Xylene & p-Xylene	See below	See below	ug/L	---	---	---	---	---	---	0.42 U	---
Xylenes (total)	SDWS	20	ug/L	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.27 U	0.19 U
Semi-volatile Organic Compounds											
Bis(2-ethylhexyl) phthalate	PDWS	6	ug/L	---	---	---	---	---	---	0.57 U	---
Metals											
Aluminum	SDWS	200	ug/L	190	1100	720	1100	670	250	67 I	520
Antimony	PDWS	6	ug/L	0.09 I	0.11 I	0.12 I	0.13 I	0.2 U	0.4 U	0.16 I	0.4 U
Arsenic	PDWS	10	ug/L	1.2 I	1.9 I	1.4 I	2 I	1 I	0.97 I	1 I	1.1 I
Barium	PDWS	2000	ug/L	8.7 IV	15	11 V	14	11	9.1 I	---	10
Beryllium	PDWS	4	ug/L	0.08 U	0.08 U	0.08 U	0.1 I	0.08 U	0.08 U	0.15 U	0.08 U
Cadmium	PDWS	5	ug/L	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.58 I
Chromium	PDWS	100	ug/L	6.1 I	44	22	45	19	7.7 I	4.4 I	22
Cobalt	GCTL	140	ug/L	1.2 U	0.34 I	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
Copper	SDWS	1000	ug/L	1.4 U	1.2 I	1.8 I	1.4 U	1.4 U	1.4 U	1.4 U	2.2 I
Iron	SDWS	300	ug/L	160	1600	760	1400	630	180	67 I	660
Lead	PDWS	15	ug/L	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U
Manganese	SDWS	50	ug/L	16	140	67 V	99	50	16	7.1 I	39
Mercury	PDWS	2	ug/L	0.027 U	0.027 U	0.027 U	0.027 U	0.032 IV	0.027 U	0.03 IV	0.027 U
Nickel	PDWS	100	ug/L	1.4 I	5.2 I	3.2 I	4.9 I	3 I	1.5 I	1.3 U	2.7 I
Selenium	PDWS	50	ug/L	4.9 U	4.9 U	4.9 U	13 IV	4.9 U	4.9 U	4.9 U	4.9 U
Silver	SDWS	100	ug/L	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	1.1 I	0.93 U	0.93 U
Sodium	PDWS	160	mg/L	6.1	6	6.6	6.8	7.9	7.8	7.2 V	7.4
Thallium	PDWS	2	ug/L	0.17 I	0.27 IV	0.19 I	0.26 I	0.17 I	0.22 I	0.19 IV	0.17 I
Vanadium	GCTL	49	ug/L	3 IV	9.6 I	6.4 I	8.8 I	5.6 I	2 I	3.4 I	5.2 I
Zinc	SDWS	5000	ug/L	4.5 U	10 I	5.1 I	8.8 I	5.9 I	4.5 U	6.2 IV	6.6 I
Herbicides											
Dinoseb	PDWS	7	ug/L	---	---	---	---	---	---	0.18 U	---
Radiochemistry											
Gross Alpha	PDWS	15	PCi/L	3 IV	4.5	4.7	---	---	---	2.8	3.39
Radium-226	PDWS	5	PCi/L	---	---	---	---	---	---	0.516	---
Radium-228	PDWS	5	PCi/L	---	---	---	---	---	---	0.177 U	---
General Chemistry											
Cyanide, Total	PDWS	0.2	mg/L	---	---	---	---	---	---	0.0027 I	---
Ammonia as N	GCTL	2.8	mg/L	0.022 U	0.022 U	0.061 IV	0.07 IV	0.022 U	0.065 IV	0.022 U	0.022 U
Total Alkalinity	NS	NS	mg/L	88	---	98	---	110 V	---	95	---
Chloride	SDWS	250	mg/L	17	17	18	19	21	22	19	20
Coliform, Total	PDWS	2500	#/100 mL	---	---	---	---	---	---	1 U	---
Di(2-ethylhexyl)adipate	PDWS	400	ug/L	---	---	---	---	---	---	0.59 U	---
Fluoride	SDWS	2	mg/L	---	---	---	---	---	---	0.16 I	---
MBAS	NS	NS	mg/I LAS MW 340	---	---	---	---	---	---	0.05 U	---
Nitrate (as N)	PDWS	10	mg/L	4.1	3.8	3.8	3.6	3.5	3.5	4.2	4
Nitrate/Nitrite	PDWS	10	mg/L	---	---	---	---	---	---	4.4	---
Nitrite (as N)	PDWS	1	mg/L	---	---	---	---	---	---	0.1 U	---
Total Dissolved Solids	SDWS	500	mg/L	140	170	150	160	160	160	170	140
Total Sulfide	NS	NS	mg/L	---	---	---	---	---	---	0.79 U	---
Sulfate	SDWS	250	mg/L	---	---	---	---	---	---	5.6	---
Field Parameters											
Conductivity	NS	NS	umhos/cm	219	270	277	264	255	302	297	274
Dissolved Oxygen	NS	NS	mg/L	0.5	0.4	3.8	3.7	2.6	2.2	1.6	2.8
Dissolved Oxygen	MPIS	20	% Sat.	5.39	5.02	44.3	43.95	31.47	25.64	19.01	33.89
Field pH	SDWS	6.5-8.5	SU	8.05	7.71	8.17	8.04	7.26	7.33	7.62	7.24
Field Temperature	NS	NS	Degrees C	19.2	27	23.1	24.5	25	23	23.9	25.3
Turbidity	NS	NS	NTU	4.9	4.26	0.72	3.04	3.86	2.34	5.47	2.11

- Notes:
1. PDWS = Primary Drinking Water Standard (62-550 F.A.C.)
 2. SDWS = Secondary Drinking Water Standard (62-550 F.A.C.)
 3. GCTL = Groundwater Clean-Up Target Level (62-777 F.A.C.)
 4. NS = No numeric standard has been set for this analyte.
 5. --- = Parameter not analyzed.
 6. mg/L = milligrams per liter
 7. ug/L = micrograms per liter
 8. SU = Standard Units
 9. NTU = nephelometric turbidity units
 10. umhos/cm = micromhos per centimeter
 11. % Sat = percent saturation
 12. Yellow shaded values indicate parameter concentrations exceed primary, secondary drinking water standards, or groundwater cleanup target levels.
 13. Degrees C = degrees Celsius
 14. U = Analyte concentration was below the laboratory detection limit (value shown).
 15. I = Analyte concentration was between the laboratory detection limit and laboratory practical quantitation limit.
 16. V = Analyte was detected in the sample and associated method blank.
 17. Q = Sample held beyond the accepted holding time.
 18. Y = Laboratory analysis was from an improperly preserved sample. The data may not be accurate.
 19. Dry = Monitoring well purged dry and a sample was not collected.

Summary of Detected Parameters, MW-7A

Parameter	Standard	MCL	Units	1/5/2010	6/24/2010	12/16/2010	6/24/2011	12/22/2011	7/5/2012	12/18/2012	6/27/2013
Volatile Organic Compounds											
Acetone	GCTL	6300	ug/L	1.9 U	1.9 U	4.1 IV	1.9 U	3.1 I	1.9 U	1.9 U	1.9 U
Benzene	PDWS	1	ug/L	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.18 U	0.16 U
Carbon disulfide	GCTL	700	ug/L	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	2.1	0.45 U	0.45 U
Chloroform	GCTL	70	ug/L	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.29 U	0.16 U
Chloromethane	GCTL	2.7	ug/L	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Ethylbenzene	SDWS	30	ug/L	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.12 U	0.16 U
Methylene chloride	PDWS	5	ug/L	0.32 U	0.32 U	0.32 U	0.32 U	0.57 IV	0.32 U	0.36 U	0.32 U
Toluene	SDWS	40	ug/L	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.23 U	0.17 U
Trihalomethanes, Total	PDWS	80	ug/L	---	---	---	---	---	---	0.1 U	---
Vinyl Chloride	PDWS	1	ug/L	0.4 U	0.4 U	0.4 U	0.1 U	0.1 U	0.1 U	0.33 U	0.1 U
m-Xylene & p-Xylene	See below	See below	ug/L	---	---	---	---	---	---	0.42 U	---
Xylenes (total)	SDWS	20	ug/L	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.27 U	0.19 U
Semi-volatile Organic Compounds											
Bis(2-ethylhexyl) phthalate	PDWS	6	ug/L	---	---	---	---	---	---	0.55 U	---
Metals											
Aluminum	SDWS	200	ug/L	52 I	23 I	18 U	18 U	18 U	170	25 I	85 I
Antimony	PDWS	6	ug/L	0.07 U	0.07 U	0.07 U	0.072 I	0.2 U	0.4 U	0.16 U	0.4 U
Arsenic	PDWS	10	ug/L	0.21 U	0.21 U	0.21 U	0.21 U	0.33 U	0.33 U	0.5 U	0.33 U
Barium	PDWS	2000	ug/L	15 V	11	12	14	13	14	---	15 V
Beryllium	PDWS	4	ug/L	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.15 U	0.08 U
Cadmium	PDWS	5	ug/L	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U
Chromium	PDWS	100	ug/L	1.2 I	0.97 I	0.83 I	1 I	0.76 I	1.4 I	0.83 I	1.2 I
Cobalt	GCTL	140	ug/L	1.2 U	0.12 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
Copper	SDWS	1000	ug/L	1.4 U	0.96 I	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	2.7 I
Iron	SDWS	300	ug/L	30 I	22 U	22 U	22 U	22 U	95 I	22 U	86 I
Lead	PDWS	15	ug/L	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U
Manganese	SDWS	50	ug/L	0.36 I	0.28 I	0.25 U	0.27 I	0.25 U	2.9 I	1.3 I	1.3 IV
Mercury	PDWS	2	ug/L	0.027 U	0.027 U	0.027 U	0.027 U	0.032 IV	0.027 U	0.031 IV	0.027 U
Nickel	PDWS	100	ug/L	2 I	1.5 I	2.4 I	1.6 I	1.8 I	1.7 I	1.9 I	1.9 I
Selenium	PDWS	50	ug/L	4.9 U	4.9 U	4.9 U	4.9 U	4.9 U	4.9 U	4.9 U	4.9 U
Silver	SDWS	100	ug/L	0.93 U	0.93 U	0.96 I	2.2 IV	0.93 U	0.93 U	0.93 U	0.93 U
Sodium	PDWS	160	mg/L	5.6	5.6	5.6 V	5.8	5.9	5.9	7.3 V	6
Thallium	PDWS	2	ug/L	0.065 I	0.088 IV	0.06 IV	0.078 IV	0.08 I	0.077 I	0.089 I	0.078 I
Vanadium	GCTL	49	ug/L	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.2 I	1.2 I
Zinc	SDWS	5000	ug/L	4.5 U	4.5 U	4.5 U	4.5 U	4.5 U	5.1 I	5.2 IV	4.5 U
Herbicides											
Dinoseb	PDWS	7	ug/L	---	---	---	---	---	---	0.17 U	---
Radiochemistry											
Gross Alpha	PDWS	15	PCi/L	3 U	3 U	3 I	---	---	---	2.51	2.63
Radium-226	PDWS	5	PCi/L	---	---	---	---	---	---	0.435	---
Radium-228	PDWS	5	PCi/L	---	---	---	---	---	---	0.231 U	---
General Chemistry											
Cyanide, Total	PDWS	0.2	mg/L	---	---	---	---	---	---	0.0083 I	---
Ammonia as N	GCTL	2.8	mg/L	0.022 U	0.022 U	0.042 IV	0.1 V	0.022 U	0.055 IV	0.022 U	0.029 I
Total Alkalinity	NS	NS	mg/L	59	---	66	---	72 V	---	77	---
Chloride	SDWS	250	mg/L	11	11	11	12	11	11	11	11
Coliform, Total	PDWS	2500	#/100 mL	---	---	---	---	---	---	330	---
Di(2-ethylhexyl)adipate	PDWS	400	ug/L	---	---	---	---	---	---	0.62 I	---
Fluoride	SDWS	2	mg/L	---	---	---	---	---	---	0.06 U	---
Methylene Blue Active Substances	NS	NS	mg/I LAS MW 340	---	---	---	---	---	---	0.12 U	---
Nitrate (as N)	PDWS	10	mg/L	13	13	13	13	13	13	13	13
Nitrate/Nitrite	PDWS	10	mg/L	---	---	---	---	---	---	14	---
Nitrite (as N)	PDWS	1	mg/L	---	---	---	---	---	---	0.049 U	---
Total Dissolved Solids	SDWS	500	mg/L	170	250	200	240	180	270	190	240
Total Sulfide	NS	NS	mg/L	---	---	---	---	---	---	0.79 U	---
Sulfate	SDWS	250	mg/L	---	---	---	---	---	---	12	---
Field Parameters											
Conductivity	NS	NS	umhos/cm	234	288	304	286	280	309	305	309
Dissolved Oxygen	NS	NS	mg/L	1.2	0.8	2.4	2.3	1.4	1.1	1	1.2
Dissolved Oxygen	MPIS	20	% Sat.	13.46	9.5	29.05	27.84	16.63	12.82	11.88	14.26
Field pH	SDWS	6.5-8.5	SU	7.94	7.54	7.08	7.7	7.12	7.15	6.84	6.95
Field Temperature	NS	NS	Degrees C	20.8	24.3	25	25	23.8	23	23.7	23.8
Turbidity	NS	NS	NTU	4.5	0.89	1.66	1.73	0.29	1.84	2.06	1.07

- Notes:
1. PDWS = Primary Drinking Water Standard (62-550 F.A.C.)
 2. SDWS = Secondary Drinking Water Standard (62-550 F.A.C.)
 3. GCTL = Groundwater Clean-Up Target Level (62-777 F.A.C.)
 4. NS = No numeric standard has been set for this analyte.
 5. --- = Parameter not analyzed.
 6. mg/L = milligrams per liter
 7. ug/L = micrograms per liter
 8. SU = Standard Units
 9. NTU = nephelometric turbidity units
 10. umhos/cm = micromhos per centimeter
 11. % Sat = percent saturation
 12. Yellow shaded values indicate parameter concentrations exceed primary, secondary drinking water standards, or groundwater cleanup target levels.
 13. Degrees C = degrees Celsius
 14. U = Analyte concentration was below the laboratory detection limit (value shown).
 15. I = Analyte concentration was between the laboratory detection limit and laboratory practical quantitation limit.
 16. V = Analyte was detected in the sample and associated method blank.
 17. Q = Sample held beyond the accepted holding time.
 18. Y = Laboratory analysis was from an improperly preserved sample. The data may not be accurate.
 19. Dry = Monitoring well purged dry and a sample was not collected.

Summary of Detected Parameters, MW-7B

Parameter	Standard	MCL	Units	1/5/2010	6/24/2010	12/16/2010	6/23/2011	12/22/2011	7/5/2012	12/18/2012	6/27/2013
Volatile Organic Compounds											
Acetone	GCTL	6300	ug/L	1.9 U	1.9 U	3.6 IV	1.9 U	4.5 I	1.9 U	1.9 U	1.9 U
Benzene	PDWS	1	ug/L	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.18 U	0.16 U
Carbon disulfide	GCTL	700	ug/L	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U
Chloroform	GCTL	70	ug/L	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.29 U	0.16 U
Chloromethane	GCTL	2.7	ug/L	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Ethylbenzene	SDWS	30	ug/L	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.12 U	0.16 U
Methylene chloride	PDWS	5	ug/L	0.32 U	0.32 U	0.32 U	0.41 IV	0.6 IV	0.32 U	0.36 U	0.32 U
Toluene	SDWS	40	ug/L	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.23 U	0.17 U
Trihalomethanes, Total	PDWS	80	ug/L	---	---	---	---	---	---	0.1 U	---
Vinyl Chloride	PDWS	1	ug/L	0.4 U	0.4 U	0.4 U	0.1 U	0.1 U	0.1 U	0.33 U	0.1 U
m-Xylene & p-Xylene	See below	See below	ug/L	---	---	---	---	---	---	0.42 U	---
Xylenes (total)	SDWS	20	ug/L	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.27 U	0.19 U
Semi-volatile Organic Compounds											
Bis(2-ethylhexyl) phthalate	PDWS	6	ug/L	---	---	---	---	---	---	0.55 U	---
Metals											
Aluminum	SDWS	200	ug/L	1900	410	170	650	460	430	740	63 I
Antimony	PDWS	6	ug/L	0.096 I	0.07 U	0.07 U	0.13 I	0.2 U	0.4 U	0.16 U	0.4 U
Arsenic	PDWS	10	ug/L	2.6 I	1.9 I	1.3 I	1.6 I	1.1 I	1 I	1.3 I	0.68 I
Barium	PDWS	2000	ug/L	9.3 IV	5.5 I	5 I	6.6 I	4.8 I	5.1 I	---	5.8 IV
Beryllium	PDWS	4	ug/L	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.15 U	0.08 U
Cadmium	PDWS	5	ug/L	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U
Chromium	PDWS	100	ug/L	3.9 I	2 I	3.3 I	2.8 I	1.4 I	1.1 I	3.2 I	0.66 U
Cobalt	GCTL	140	ug/L	1.2 U	0.12 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
Copper	SDWS	1000	ug/L	1.4 U	0.46 I	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
Iron	SDWS	300	ug/L	590	270	260	400	220	200	450	37 I
Lead	PDWS	15	ug/L	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U
Manganese	SDWS	50	ug/L	20	3.7 I	4.7 I	4 I	2.2 I	2.6 I	4.5 I	0.63 IV
Mercury	PDWS	2	ug/L	0.027 U	0.027 U	0.027 U	0.027 U	0.029 IV	0.027 U	0.032 IV	0.027 U
Nickel	PDWS	100	ug/L	1.6 I	1.3 U	2 I	1.3 U	1.3 U	1.3 U	1.4 I	1.3 U
Selenium	PDWS	50	ug/L	4.9 U	4.9 U	4.9 U	4.9 U	4.9 U	4.9 U	4.9 U	4.9 U
Silver	SDWS	100	ug/L	0.93 U	0.93 U	1.1 I	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U
Sodium	PDWS	160	mg/L	6.4	6.4	6.3 V	6.2	6.3	6.2	7 V	6.4
Thallium	PDWS	2	ug/L	0.055 I	0.038 IV	0.02 U	0.03 I	0.033 U	0.05 U	0.066 U	0.05 U
Vanadium	GCTL	49	ug/L	2.4 IV	1.2 I	1.1 U	1.7 I	1.1 U	1.1 U	3.4 I	1.1 U
Zinc	SDWS	5000	ug/L	6.9 I	5.8 I	4.5 U	4.6 I	4.5 U	6.8 I	8.2 IV	4.5 U
Herbicides											
Dinoseb	PDWS	7	ug/L	---	---	---	---	---	---	0.17 U	---
Radiochemistry											
Gross Alpha	PDWS	15	PCi/L	4.6	4.7	3 I	---	---	---	1.64	1.04
Radium-226	PDWS	5	PCi/L	---	---	---	---	---	---	0.952	---
Radium-228	PDWS	5	PCi/L	---	---	---	---	---	---	0.284 U	---
General Chemistry											
Cyanide, Total	PDWS	0.2	mg/L	---	---	---	---	---	---	0.0025 I	---
Ammonia as N	GCTL	2.8	mg/L	0.022 U	0.022 U	0.052 IV	0.11 V	0.022 U	0.066 IV	0.022 U	0.022 U
Total Alkalinity	NS	NS	mg/L	72	---	72	---	71 V	---	71	---
Chloride	SDWS	250	mg/L	4.3	4	4.2	4.2	4	4.4	4.3	4.1
Coliform, Total	PDWS	2500	#/100 mL	---	---	---	---	---	---	270	---
Di(2-ethylhexyl)adipate	PDWS	400	ug/L	---	---	---	---	---	---	1.1 I	---
Fluoride	SDWS	2	mg/L	---	---	---	---	---	---	0.24 I	---
Methylene Blue Active Substances	NS	NS	mg/I LAS MW 340	---	---	---	---	---	---	0.12 U	---
Nitrate (as N)	PDWS	10	mg/L	0.042 U	0.042 U	0.042 U	0.08 I	0.042 U	0.042 U	0.093 I	0.042 U
Nitrate/Nitrite	PDWS	10	mg/L	---	---	---	---	---	---	0.029 I	---
Nitrite (as N)	PDWS	1	mg/L	---	---	---	---	---	---	0.049 U	---
Total Dissolved Solids	SDWS	500	mg/L	94	100	110	91	75	90	89	79
Total Sulfide	NS	NS	mg/L	---	---	---	---	---	---	0.79 U	---
Sulfate	SDWS	250	mg/L	---	---	---	---	---	---	2.5 I	---
Field Parameters											
Conductivity	NS	NS	umhos/cm	128	158	156	146	143	145	137	136
Dissolved Oxygen	NS	NS	mg/L	1.3	0.7	1.9	1.8	1.4	1.1	0.4	0.5
Dissolved Oxygen	MPIS	20	% Sat.	14.01	8.47	22.15	21.79	16.32	12.82	4.66	5.94
Field pH	SDWS	6.5-8.5	SU	7.81	7.28	7.58	7.37	6.61	6.74	6.8	6.78
Field Temperature	NS	NS	Degrees C	19.4	24.8	22.9	24.6	23.3	22.9	23.1	23.5
Turbidity	NS	NS	NTU	16.1	7.49	2.3	5.94	10.2	5.9	4.93	4.58

- Notes:
1. PDWS = Primary Drinking Water Standard (62-550 F.A.C.)
 2. SDWS = Secondary Drinking Water Standard (62-550 F.A.C.)
 3. GCTL = Groundwater Clean-Up Target Level (62-777 F.A.C.)
 4. NS = No numeric standard has been set for this analyte.
 5. --- = Parameter not analyzed.
 6. mg/L = milligrams per liter
 7. ug/L = micrograms per liter
 8. SU = Standard Units
 9. NTU = nephelometric turbidity units
 10. umhos/cm = micromhos per centimeter
 11. % Sat = percent saturation
 12. Yellow shaded values indicate parameter concentrations exceed primary, secondary drinking water standards, or groundwater cleanup target levels.
 13. Degrees C = degrees Celsius
 14. U = Analyte concentration was below the laboratory detection limit (value shown).
 15. I = Analyte concentration was between the laboratory detection limit and laboratory practical quantitation limit.
 16. V = Analyte was detected in the sample and associated method blank.
 17. Q = Sample held beyond the accepted holding time.
 18. Y = Laboratory analysis was from an improperly preserved sample. The data may not be accurate.
 19. Dry = Monitoring well purged dry and a sample was not collected.

Summary of Detected Parameters, MW-8R

Parameter	Standard	MCL	Units	1/5/2010	6/24/2010	12/17/2010	6/24/2011	12/22/2011	7/6/2012	12/20/2012	6/27/2013
Volatile Organic Compounds											
Acetone	GCTL	6300	ug/L	1.9 U	1.9 U	3.3 IV	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
Benzene	PDWS	1	ug/L	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.18 U	0.16 U
Carbon disulfide	GCTL	700	ug/L	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.75 I	0.45 U	0.45 U
Chloroform	GCTL	70	ug/L	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.29 U	0.16 U
Chloromethane	GCTL	2.7	ug/L	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Ethylbenzene	SDWS	30	ug/L	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.12 U	0.16 U
Methylene chloride	PDWS	5	ug/L	0.32 U	0.32 U	0.32 U	0.32 U	0.62 IV	0.32 U	0.36 U	0.32 U
Toluene	SDWS	40	ug/L	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 UJ	0.23 U	0.17 U
Trihalomethanes, Total	PDWS	80	ug/L	---	---	---	---	---	---	0.1 U	---
Vinyl Chloride	PDWS	1	ug/L	0.4 U	0.4 U	0.4 U	0.1 U	0.1 U	0.1 U	0.33 U	0.1 U
m-Xylene & p-Xylene	See below	See below	ug/L	---	---	---	---	---	---	0.42 U	---
Xylenes (total)	SDWS	20	ug/L	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.27 U	0.19 U
Semi-volatile Organic Compounds											
Bis(2-ethylhexyl) phthalate	PDWS	6	ug/L	---	---	---	---	---	---	0.54 U	---
Metals											
Aluminum	SDWS	200	ug/L	720	23 I	310	220	110	1000	370	1400
Antimony	PDWS	6	ug/L	0.53 I	0.43 I	0.54 I	0.8 I	0.43 I	2.8	0.85 I	0.79 I
Arsenic	PDWS	10	ug/L	1.5 I	1.1 I	0.45 I	0.84 I	0.73 I	0.92 I	0.85 I	1.1 I
Barium	PDWS	2000	ug/L	9.1 IV	5.8 I	10 V	12	11	18	---	17 V
Beryllium	PDWS	4	ug/L	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.15 U	0.08 U
Cadmium	PDWS	5	ug/L	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U
Chromium	PDWS	100	ug/L	1.6 I	0.66 U	0.87 I	1.1 I	1.4 I	2.9 I	2.5 I	3.6 I
Cobalt	GCTL	140	ug/L	1.2 U	0.12 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
Copper	SDWS	1000	ug/L	1.4 U	0.74 I	3.7 I	2.1 I	1.5 I	6.4 I	1.4 U	2.2 I
Iron	SDWS	300	ug/L	420	23 I	190	160	86 I	650	240	1100
Lead	PDWS	15	ug/L	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U
Manganese	SDWS	50	ug/L	2.9 I	0.45 I	2.8 IV	1.9 I	0.53 I	5.1 I	2.6 I	7 I
Mercury	PDWS	2	ug/L	0.027 U	0.027 U	0.027 U	0.027 U	0.033 IV	0.027 U	0.031 IV	0.027 U
Nickel	PDWS	100	ug/L	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
Selenium	PDWS	50	ug/L	4.9 U	4.9 U	6.2 I	4.9 U	4.9 U	4.9 U	4.9 U	4.9 U
Silver	SDWS	100	ug/L	0.93 U	0.93 U	0.93 U	2.3 IV	0.93 U	0.93 U	0.93 U	0.93 U
Sodium	PDWS	160	mg/L	26	25	26	24	19	16	15 V	14
Thallium	PDWS	2	ug/L	0.052 I	0.049 IV	0.02 U	0.044 IV	0.041 I	0.058 I	0.067 IV	0.093 I
Vanadium	GCTL	49	ug/L	2.9 IV	2.1 I	2.4 I	2.6 I	2.1 I	2 I	2.9 I	4.4 I
Zinc	SDWS	5000	ug/L	5.7 I	4.5 U	8.2 I	5 I	4.5 U	19 I	7.7 IV	6.9 I
Herbicides											
Dinoseb	PDWS	7	ug/L	---	---	---	---	---	---	0.17 U	---
Radiochemistry											
Gross Alpha	PDWS	15	PCi/L	3.4	3 IV	3 I	---	---	---	8.63	13.5
Radium-226	PDWS	5	PCi/L	---	---	---	---	---	---	0.691	---
Radium-228	PDWS	5	PCi/L	---	---	---	---	---	---	0.53	---
General Chemistry											
Cyanide, Total	PDWS	0.2	mg/L	---	---	---	---	---	---	0.0024 IV	---
Ammonia as N	GCTL	2.8	mg/L	0.022 I	0.022 IV	0.066 IV	0.11 V	0.022 U	0.067 IV	0.022 U	0.022 U
Total Alkalinity	NS	NS	mg/L	85	---	91	---	94	---	80	---
Chloride	SDWS	250	mg/L	5	4.5	4.5	4.5	3.9	4.5	4.3	4.6
Coliform, Total	PDWS	2500	#/100 mL	---	---	---	---	---	---	160 B	---
Di(2-ethylhexyl)adipate	PDWS	400	ug/L	---	---	---	---	---	---	0.58 U	---
Fluoride	SDWS	2	mg/L	---	---	---	---	---	---	0.1 I	---
Methylene Blue Active Substances	NS	NS	mg/I LAS MW 340	---	---	---	---	---	---	0.12 U	---
Nitrate (as N)	PDWS	10	mg/L	1.5	0.22 I	1.2	1.7	1.8	1.8	1.6	1.3
Nitrate/Nitrite	PDWS	10	mg/L	---	---	---	---	---	---	1.9	---
Nitrite (as N)	PDWS	1	mg/L	---	---	---	---	---	---	0.049 U	---
Total Dissolved Solids	SDWS	500	mg/L	99	100	120	110	110	110	120	100
Total Sulfide	NS	NS	mg/L	---	---	---	---	---	---	0.79 U	---
Sulfate	SDWS	250	mg/L	---	---	---	---	---	---	5.1	---
Field Parameters											
Conductivity	NS	NS	umhos/cm	157	186	216	198	184	191	146	180
Dissolved Oxygen	NS	NS	mg/L	2.2	3.8	4.1	3.9	2.7	2.2	2.3	2.5
Dissolved Oxygen	MPIS	20	% Sat.	25.16	45.14	45.98	46.33	32.68	25.64	27.84	31.38
Field pH	SDWS	6.5-8.5	SU	8.26	7.24	7.02	6.99	6.76	6.84	6.92	7.04
Field Temperature	NS	NS	Degrees C	21.6	24	20.7	24.1	24.6	22.6	25.1	26.7
Turbidity	NS	NS	NTU	17.9	3.46	2.51	3.76	6.22	3.83	23.83	15.15

- Notes:
1. PDWS = Primary Drinking Water Standard (62-550 F.A.C.)
 2. SDWS = Secondary Drinking Water Standard (62-550 F.A.C.)
 3. GCTL = Groundwater Clean-Up Target Level (62-777 F.A.C.)
 4. NS = No numeric standard has been set for this analyte.
 5. --- = Parameter not analyzed.
 6. mg/L = milligrams per liter
 7. ug/L = micrograms per liter
 8. SU = Standard Units
 9. NTU = nephelometric turbidity units
 10. umhos/cm = micromhos per centimeter
 11. % Sat = percent saturation
 12. Yellow shaded values indicate parameter concentrations exceed primary, secondary drinking water standards, or groundwater cleanup target levels.
 13. Degrees C = degrees Celsius
 14. U = Analyte concentration was below the laboratory detection limit (value shown).
 15. I = Analyte concentration was between the laboratory detection limit and laboratory practical quantitation limit.
 16. V = Analyte was detected in the sample and associated method blank.
 17. Q = Sample held beyond the accepted holding time.
 18. Y = Laboratory analysis was from an improperly preserved sample. The data may not be accurate.
 19. Dry = Monitoring well purged dry and a sample was not collected.

Summary of Detected Parameters, MW-FL1

Parameter	Standard	MCL	Units	1/5/2010	6/24/2010	12/16/2010	6/23/2011	12/21/2011	7/5/2012	12/14/2012	6/26/2013
Volatile Organic Compounds											
Acetone	GCTL	6300	ug/L	1.9 U	2.8 I	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
Benzene	PDWS	1	ug/L	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.18 U	0.16 U
Carbon disulfide	GCTL	700	ug/L	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U
Chloroform	GCTL	70	ug/L	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.29 U	0.16 U
Chloromethane	GCTL	2.7	ug/L	0.3 U	0.34 I	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Ethylbenzene	SDWS	30	ug/L	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.12 U	0.16 U
Methylene chloride	PDWS	5	ug/L	0.32 U	0.32 U	0.32 U	0.38 IV	0.32 U	0.32 U	0.36 U	0.32 U
Toluene	SDWS	40	ug/L	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.23 U	0.17 U
Trihalomethanes, Total	PDWS	80	ug/L	---	---	---	---	---	---	0.1 U	---
Vinyl Chloride	PDWS	1	ug/L	0.4 U	0.4 U	0.4 U	0.1 U	0.1 U	0.1 U	0.33 U	0.1 U
m-Xylene & p-Xylene	See below	See below	ug/L	---	---	---	---	---	---	0.42 U	---
Xylenes (total)	SDWS	20	ug/L	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.27 U	0.19 U
Semi-volatile Organic Compounds											
Bis(2-ethylhexyl) phthalate	PDWS	6	ug/L	---	---	---	---	---	---	2 I	---
Metals											
Aluminum	SDWS	200	ug/L	1200	510	630	550	400	460	190	49 I
Antimony	PDWS	6	ug/L	0.14 I	0.09 I	0.076 I	0.12 I	0.2 U	0.4 U	0.16 U	0.4 U
Arsenic	PDWS	10	ug/L	0.58 I	0.48 I	0.44 I	0.43 I	0.42 I	0.42 I	0.52 I	0.44 I
Barium	PDWS	2000	ug/L	43 V	45	50	43	39	27	---	29
Beryllium	PDWS	4	ug/L	0.08 U	0.08 U	0.13 I	0.08 U	0.08 U	0.08 U	0.15 U	0.08 U
Cadmium	PDWS	5	ug/L	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U
Chromium	PDWS	100	ug/L	4 I	3.6 I	6.5 I	3.3 I	2.4 I	1.7 I	1.2 I	0.66 U
Cobalt	GCTL	140	ug/L	1.2 U	0.29 I	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
Copper	SDWS	1000	ug/L	1.4 U	0.79 I	1.4 U	1.4 U	6.3 IV	1.4 U	1.4 U	2.2 I
Iron	SDWS	300	ug/L	680	420	490	380	300	220	120	75 I
Lead	PDWS	15	ug/L	2.8 I	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U
Manganese	SDWS	50	ug/L	26	21	57	28	22	25	16	15
Mercury	PDWS	2	ug/L	0.027 U	0.027 U	0.027 U	0.027 U	0.033 IV	0.027 U	0.027 U	0.027 U
Nickel	PDWS	100	ug/L	2.6 I	1.4 I	2.2 I	1.9 I	2 I	1.8 I	1.9 I	1.8 I
Selenium	PDWS	50	ug/L	4.9 U	4.9 U	4.9 U	7 IV	4.9 U	4.9 U	4.9 U	4.9 U
Silver	SDWS	100	ug/L	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	1.2 IV
Sodium	PDWS	160	mg/L	9.8	5.4	4.1 V	6.8	7.3 V	9.9	8.9 V	6.2
Thallium	PDWS	2	ug/L	0.22 I	0.12 IV	0.11 IV	0.15 I	0.13 I	0.2 I	0.066 U	0.15 I
Vanadium	GCTL	49	ug/L	3.6 IV	2.4 I	2 I	2 I	2.4 I	1.1 I	1.4 I	1.1 U
Zinc	SDWS	5000	ug/L	6.1 I	5.3 I	9.3 I	4.9 I	5.4 I	5.2 I	6.4 IV	7 I
Herbicides											
Dinoseb	PDWS	7	ug/L	---	---	---	---	---	---	0.18 U	---
Radiochemistry											
Gross Alpha	PDWS	15	PCi/L	7.6	7.9	10.5	---	---	---	2.86	2.52
Radium-226	PDWS	5	PCi/L	---	---	---	---	---	---	1.24	---
Radium-228	PDWS	5	PCi/L	---	---	---	---	---	---	0.223 U	---
General Chemistry											
Cyanide, Total	PDWS	0.2	mg/L	---	---	---	---	---	---	0.002 U	---
Ammonia as N	GCTL	2.8	mg/L	0.022 U	0.022 U	0.047 IV	0.1 V	0.024 I	0.065 IV	0.022 U	0.022 U
Total Alkalinity	NS	NS	mg/L	130	---	94	---	120 V	---	120	---
Chloride	SDWS	250	mg/L	20	11	9	14	15	19	16	19
Coliform, Total	PDWS	2500	#/100 mL	---	---	---	---	---	---	1 U	---
Di(2-ethylhexyl)adipate	PDWS	400	ug/L	---	---	---	---	---	---	1.2 I	---
Fluoride	SDWS	2	mg/L	---	---	---	---	---	---	0.12 I	---
Methylene Blue Active Substances	NS	NS	mg/l LAS MW 340	---	---	---	---	---	---	0.12 U	---
Nitrate (as N)	PDWS	10	mg/L	1.1	1.3	1.6	1.3	1.3	0.91	1.2	1.1
Nitrate/Nitrite	PDWS	10	mg/L	---	---	---	---	---	---	1.4	---
Nitrite (as N)	PDWS	1	mg/L	---	---	---	---	---	---	0.091 I	---
Total Dissolved Solids	SDWS	500	mg/L	180	170	120	170	160	190	200	180
Total Sulfide	NS	NS	mg/L	---	---	---	---	---	---	0.8 I	---
Sulfate	SDWS	250	mg/L	---	---	---	---	---	---	15	---
Field Parameters											
Conductivity	NS	NS	umhos/cm	339	236	255	263	243	328	295	322
Dissolved Oxygen	NS	NS	mg/L	0	3.1	2.4	2.3	1.4	1.3	0.6	0.2
Dissolved Oxygen	MPIS	20	% Sat.	0	38.22	28.51	27.84	16.63	15.15	6.6	2.47
Field pH	SDWS	6.5-8.5	SU	7.1	7.35	7.56	7.55	6.54	6.53	6.73	7.19
Field Temperature	NS	NS	Degrees C	21.4	26.4	23.7	24.8	24.2	22.8	19.7	26.5
Turbidity	NS	NS	NTU	6.3	8.19	8.6	12.96	18.6	17.15	16.72	3.18

- Notes:
1. PDWS = Primary Drinking Water Standard (62-550 F.A.C.)
 2. SDWS = Secondary Drinking Water Standard (62-550 F.A.C.)
 3. GCTL = Groundwater Clean-Up Target Level (62-777 F.A.C.)
 4. NS = No numeric standard has been set for this analyte.
 5. --- = Parameter not analyzed.
 6. mg/L = milligrams per liter
 7. ug/L = micrograms per liter
 8. SU = Standard Units
 9. NTU = nephelometric turbidity units
 10. umhos/cm = micromhos per centimeter
 11. % Sat = percent saturation
 12. Yellow shaded values indicate parameter concentrations exceed primary, secondary drinking water standards, or groundwater cleanup target levels.
 13. Degrees C = degrees Celsius
 14. U = Analyte concentration was below the laboratory detection limit (value shown).
 15. I = Analyte concentration was between the laboratory detection limit and laboratory practical quantitation limit.
 16. V = Analyte was detected in the sample and associated method blank.
 17. Q = Sample held beyond the accepted holding time.
 18. Y = Laboratory analysis was from an improperly preserved sample. The data may not be accurate.
 19. Dry = Monitoring well purged dry and a sample was not collected.

Summary of Detected Parameters, MW-FL2R

Parameter	Standard	MCL	Units	1/5/2010	6/24/2010	12/17/2010	6/24/2011	12/22/2011	7/6/2012	12/19/2012	6/27/2013
Volatile Organic Compounds											
Acetone	GCTL	6300	ug/L	2.4 I	5.1 I	4.3 IV	1.9 U	3.9 I	1.9 U	1.9 U	1.9 U
Benzene	PDWS	1	ug/L	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.18 U	0.16 U
Carbon disulfide	GCTL	700	ug/L	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U
Chloroform	GCTL	70	ug/L	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.29 U	0.16 U
Chloromethane	GCTL	2.7	ug/L	0.3 U	0.41 I	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Ethylbenzene	SDWS	30	ug/L	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.12 U	0.16 U
Methylene chloride	PDWS	5	ug/L	0.32 U	0.32 U	0.32 U	0.32 U	0.58 IV	0.32 U	0.36 U	0.32 U
Toluene	SDWS	40	ug/L	0.17 U	0.17 U	0.19 I	0.17 U	0.17 U	0.17 UJ	0.23 U	0.17 U
Trihalomethanes, Total	PDWS	80	ug/L	---	---	---	---	---	---	0.1 U	---
Vinyl Chloride	PDWS	1	ug/L	0.42 I	0.45 I	0.43 I	0.1 U	0.1 U	0.1 U	0.33 U	0.1 U
m-Xylene & p-Xylene	See below	See below	ug/L	---	---	---	---	---	---	0.42 U	---
Xylenes (total)	SDWS	20	ug/L	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.27 U	0.19 U
Semi-volatile Organic Compounds											
Bis(2-ethylhexyl) phthalate	PDWS	6	ug/L	---	---	---	---	---	---	0.55 U	---
Metals											
Aluminum	SDWS	200	ug/L	3000	3000	2700	2100	2300	2300	1200	1100
Antimony	PDWS	6	ug/L	0.58 I	0.51 I	0.63 I	0.76 I	0.7 I	0.68 I	1.1 I	0.79 I
Arsenic	PDWS	10	ug/L	1.3 I	1.7 I	1.5 I	2 I	2.1 I	2.9 I	1.8 I	1.1 I
Barium	PDWS	2000	ug/L	42 V	31	29 V	23	19	16	---	19 V
Beryllium	PDWS	4	ug/L	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.15 U	0.08 U
Cadmium	PDWS	5	ug/L	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U
Chromium	PDWS	100	ug/L	26	23	24	17	15	15	18	12
Cobalt	GCTL	140	ug/L	1.2 U	0.33 I	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
Copper	SDWS	1000	ug/L	1.4 U	2.7 I	2.6 I	1.4 I	1.9 I	1.4 U	1.4 U	2 I
Iron	SDWS	300	ug/L	84 I	290	52 I	210	320	280	58 I	100
Lead	PDWS	15	ug/L	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U
Manganese	SDWS	50	ug/L	0.25 U	2.6 I	0.43 IV	1.9 I	2.1 I	1.9 I	0.42 I	1.1 IV
Mercury	PDWS	2	ug/L	0.027 U	0.027 U	0.027 U	0.027 U	0.033 IV	0.027 U	0.031 IV	0.027 U
Nickel	PDWS	100	ug/L	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
Selenium	PDWS	50	ug/L	4.9 U	4.9 U	4.9 U	4.9 U	4.9 U	4.9 U	4.9 U	4.9 U
Silver	SDWS	100	ug/L	0.93 U	0.93 U	0.93 U	2.3 IV	0.93 U	0.97 I	0.93 U	0.93 U
Sodium	PDWS	160	mg/L	1.3	1.4	1.6	1.7	1.8	1.6	1.9 IV	1.8
Thallium	PDWS	2	ug/L	0.02 U	0.021 IV	0.02 U	0.02 U	0.033 U	0.05 U	0.066 U	0.05 U
Vanadium	GCTL	49	ug/L	18 V	20	21	19	17	19	17	14
Zinc	SDWS	5000	ug/L	5.1 I	4.8 I	4.5 U	4.5 U	4.5 I	4.7 I	6.6 IV	4.5 U
Herbicides											
Dinoseb	PDWS	7	ug/L	---	---	---	---	---	---	0.4 I	---
Radiochemistry											
Gross Alpha	PDWS	15	PCI/L	3 U	3 U	3 U	---	---	---	1.17 U	0.699 U
Radium-226	PDWS	5	PCI/L	---	---	---	---	---	---	0.0881 U	---
Radium-228	PDWS	5	PCI/L	---	---	---	---	---	---	0.0381 U	---
General Chemistry											
Cyanide, Total	PDWS	0.2	mg/L	---	---	---	---	---	---	0.029	---
Ammonia as N	GCTL	2.8	mg/L	0.022 U	0.022 U	0.073 IV	0.12 V	0.022 U	0.071 IV	0.022 U	0.022 U
Total Alkalinity	NS	NS	mg/L	150	---	120	---	77 V	---	120	---
Chloride	SDWS	250	mg/L	10	11	11	8.4	7	5.9	5.4	5
Coliform, Total	PDWS	2500	#/100 mL	---	---	---	---	---	---	1 U	---
Di(2-ethylhexyl)adipate	PDWS	400	ug/L	---	---	---	---	---	---	0.58 U	---
Fluoride	SDWS	2	mg/L	---	---	---	---	---	---	0.061 I	---
MBAS	NS	NS	mg/l LAS MW 340	---	---	---	---	---	---	0.05 U	---
Nitrate (as N)	PDWS	10	mg/L	0.55	0.34 I	0.4 I	0.37 I	0.47 I	0.4 I	0.41 I	0.35 I
Nitrate/Nitrite	PDWS	10	mg/L	---	---	---	---	---	---	0.24	---
Nitrite (as N)	PDWS	1	mg/L	---	---	---	---	---	---	0.1 U	---
Total Dissolved Solids	SDWS	500	mg/L	250	230	220	160	140	150	160	99
Total Sulfide	NS	NS	mg/L	---	---	---	---	---	---	0.79 U	---
Sulfate	SDWS	250	mg/L	---	---	---	---	---	---	31	---
Field Parameters											
Conductivity	NS	NS	umhos/cm	559	712	574	296	247	291	280	249
Dissolved Oxygen	NS	NS	mg/L	1.3	0.7	1.7	1.6	3.4	1.8	1.9	2
Dissolved Oxygen	MPIS	20	% Sat.	13.73	8.63	19.44	19.01	41.15	20.98	22.57	24.21
Field pH	SDWS	6.5-8.5	SU	10.97	10.74	11.64	10.84	10.15	10.24	10.33	9.76
Field Temperature	NS	NS	Degrees C	17.7	26.4	21.9	24.3	24.7	22.7	24.1	25.1
Turbidity	NS	NS	NTU	4.9	7.81	2.23	1.99	4.15	5.91	7.8	2.13

- Notes:
1. PDWS = Primary Drinking Water Standard (62-550 F.A.C.)
 2. SDWS = Secondary Drinking Water Standard (62-550 F.A.C.)
 3. GCTL = Groundwater Clean-Up Target Level (62-777 F.A.C.)
 4. NS = No numeric standard has been set for this analyte.
 5. --- = Parameter not analyzed.
 6. mg/L = milligrams per liter
 7. ug/L = micrograms per liter
 8. SU = Standard Units
 9. NTU = nephelometric turbidity units
 10. umhos/cm = micromhos per centimeter
 11. % Sat = percent saturation
 12. Yellow shaded values indicate parameter concentrations exceed primary, secondary drinking water standards, or groundwater cleanup target levels.
 13. Degrees C = degrees Celsius
 14. U = Analyte concentration was below the laboratory detection limit (value shown).
 15. I = Analyte concentration was between the laboratory detection limit and laboratory practical quantitation limit.
 16. V = Analyte was detected in the sample and associated method blank.
 17. Q = Sample held beyond the accepted holding time.
 18. Y = Laboratory analysis was from an improperly preserved sample. The data may not be accurate.
 19. Dry = Monitoring well purged dry and a sample was not collected.

Summary of Detected Parameters, MW-FL3											
Parameter	Standard	MCL	Units	1/5/2010	6/24/2010	12/16/2010	6/24/2011	12/22/2011	7/5/2012	12/19/2012	6/27/2013
Volatile Organic Compounds											
Acetone	GCTL	6300	ug/L	1.9 U	1.9 U	3.3 IV	1.9 U	3.7 I	1.9 U	1.9 U	1.9 U
Benzene	PDWS	1	ug/L	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.81	0.16 U
Carbon disulfide	GCTL	700	ug/L	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U
Chloroform	GCTL	70	ug/L	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.29 U	0.16 U
Chloromethane	GCTL	2.7	ug/L	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Ethylbenzene	SDWS	30	ug/L	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.15 I	0.16 U
Methylene chloride	PDWS	5	ug/L	0.32 U	0.32 U	0.32 U	0.32 U	0.59 IV	0.32 U	0.36 U	0.32 U
Toluene	SDWS	40	ug/L	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	7.7	0.94 I
Trihalomethanes, Total	PDWS	80	ug/L	---	---	---	---	---	---	0.1 U	---
Vinyl Chloride	PDWS	1	ug/L	0.4 U	0.4 U	0.4 U	0.1 U	0.1 U	0.1 U	0.33 U	0.1 U
Xylenes (total)	SDWS	20	ug/L	0.19 U	0.39 I	0.19 U	0.19 U	0.19 U	0.19 U	0.48 I	3.5
Semi-volatile Organic Compounds											
Bis(2-ethylhexyl) phthalate	PDWS	6	ug/L	---	---	---	---	---	---	0.54 U	---
Metals											
Aluminum	SDWS	200	ug/L	1100	480	390	160	500	280	220	150
Antimony	PDWS	6	ug/L	0.12 I	0.071 I	0.83 I	0.07 U	0.28 I	0.4 U	1.6 I	0.4 U
Arsenic	PDWS	10	ug/L	1.1 I	1 I	1 I	0.77 I	0.67 I	0.61 I	0.76 I	0.65 I
Barium	PDWS	2000	ug/L	39 V	34	30	32	28	25	---	30 V
Beryllium	PDWS	4	ug/L	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.15 U	0.08 U
Cadmium	PDWS	5	ug/L	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U
Chromium	PDWS	100	ug/L	6.1 I	3 I	2.3 I	0.72 I	1.4 I	0.95 I	1.1 I	1.1 I
Cobalt	GCTL	140	ug/L	1.2 U	0.12 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
Copper	SDWS	1000	ug/L	1.4 U	1.2 I	2 I	1.4 U	1.9 I	1.4 U	1.4 U	1.4 U
Iron	SDWS	300	ug/L	750	460	350	130	290	160	160	150
Lead	PDWS	15	ug/L	2.6 U	2.6 U	3.5 I	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U
Manganese	SDWS	50	ug/L	89	72	60	41	38	32	29	27
Mercury	PDWS	2	ug/L	0.027 U	0.027 U	0.027 U	0.027 U	0.036 IV	0.027 U	0.032 IV	0.027 U
Nickel	PDWS	100	ug/L	1.7 I	1.3 U	1.8 I	1.3 U	1.3 I	1.3 U	1.3 U	1.3 U
Selenium	PDWS	50	ug/L	4.9 U	4.9 U	4.9 U	4.9 U	4.9 U	4.9 U	4.9 U	4.9 U
Silver	SDWS	100	ug/L	0.93 U	0.93 U	0.93 U	2.6 IV	0.93 U	0.93 U	0.93 U	0.93 U
Sodium	PDWS	160	mg/L	5.1	5	4.8 V	5	5.1	5	5300 V	5.1
Thallium	PDWS	2	ug/L	0.075 I	0.058 IV	0.091 IV	0.044 IV	0.087 I	0.06 I	0.26 IV	0.054 I
Vanadium	GCTL	49	ug/L	2.3 IV	1.8 I	1.1 I	1.1 U	1.3 I	1.1 U	1.2 I	1.2 I
Zinc	SDWS	5000	ug/L	9 I	6.1 I	25	4.5 U	14 I	7.6 I	9.3 IV	4.5 U
Herbicides											
Dinoseb	PDWS	7	ug/L	---	---	---	---	---	---	0.18 U	---
Radiochemistry											
Gross Alpha	PDWS	15	PCi/L	6.2	3.1	6.6	---	---	---	3.46	3.54
Radium-226	PDWS	5	PCi/L	---	---	---	---	---	---	0.915	---
Radium-228	PDWS	5	PCi/L	---	---	---	---	---	---	0.359 U	---
General Chemistry											
Cyanide, Total	PDWS	0.2	mg/L	---	---	---	---	---	---	0.0035 IV	---
Ammonia as N	GCTL	2.8	mg/L	0.022 U	0.022 U	0.071 IV	0.022 U	0.022 U	0.068 IV	0.022 U	0.022 U
Total Alkalinity	NS	NS	mg/L	100	---	110	---	130 V	---	120	---
Chloride	SDWS	250	mg/L	8.4	8.7	9.1	9.9	9.4	9.5	9.4	9.8
Coliform, Total	PDWS	2500	#/100 mL	---	---	---	---	---	---	1 U	---
Di(2-ethylhexyl)adipate	PDWS	400	ug/L	---	---	---	---	---	---	0.58 U	---
Fluoride	SDWS	2	mg/L	---	---	---	---	---	---	0.11 I	---
MBAS	NS	NS	mg/l LAS MW 340	---	---	---	---	---	---	0.081 I	---
Nitrate (as N)	PDWS	10	mg/L	0.042 U	0.042 U	0.042 U	0.042 U	0.042 U	0.042 U	0.1 U	0.042 U
Nitrate/Nitrite	PDWS	10	mg/L	---	---	---	---	---	---	0.019 U	---
Nitrite (as N)	PDWS	1	mg/L	---	---	---	---	---	---	0.1 U	---
Total Dissolved Solids	SDWS	500	mg/L	130	150	140	130	130	190	150	150
Total Sulfide	NS	NS	mg/L	---	---	---	---	---	---	0.79 U	---
Sulfate	SDWS	250	mg/L	---	---	---	---	---	---	4.9 I	---
Field Parameters											
Conductivity	NS	NS	umhos/cm	202	245	252	22.9	186	248	233	251
Dissolved Oxygen	NS	NS	mg/L	0.3	0	0	0.1	0	0	0	0
Dissolved Oxygen	MPIS	20	% Sat.	3.17	0	0	1.19	0	0	0	0
Field pH	SDWS	6.5-8.5	SU	7.98	7.36	7.46	7.64	7.11	7.07	7.2	7
Field Temperature	NS	NS	Degrees C	18.3	26.7	23.3	23.8	22.7	22.8	22.1	24.9
Turbidity	NS	NS	NTU	358.3	2.72	1.97	4.19	10.9	5.37	68.4	3.38

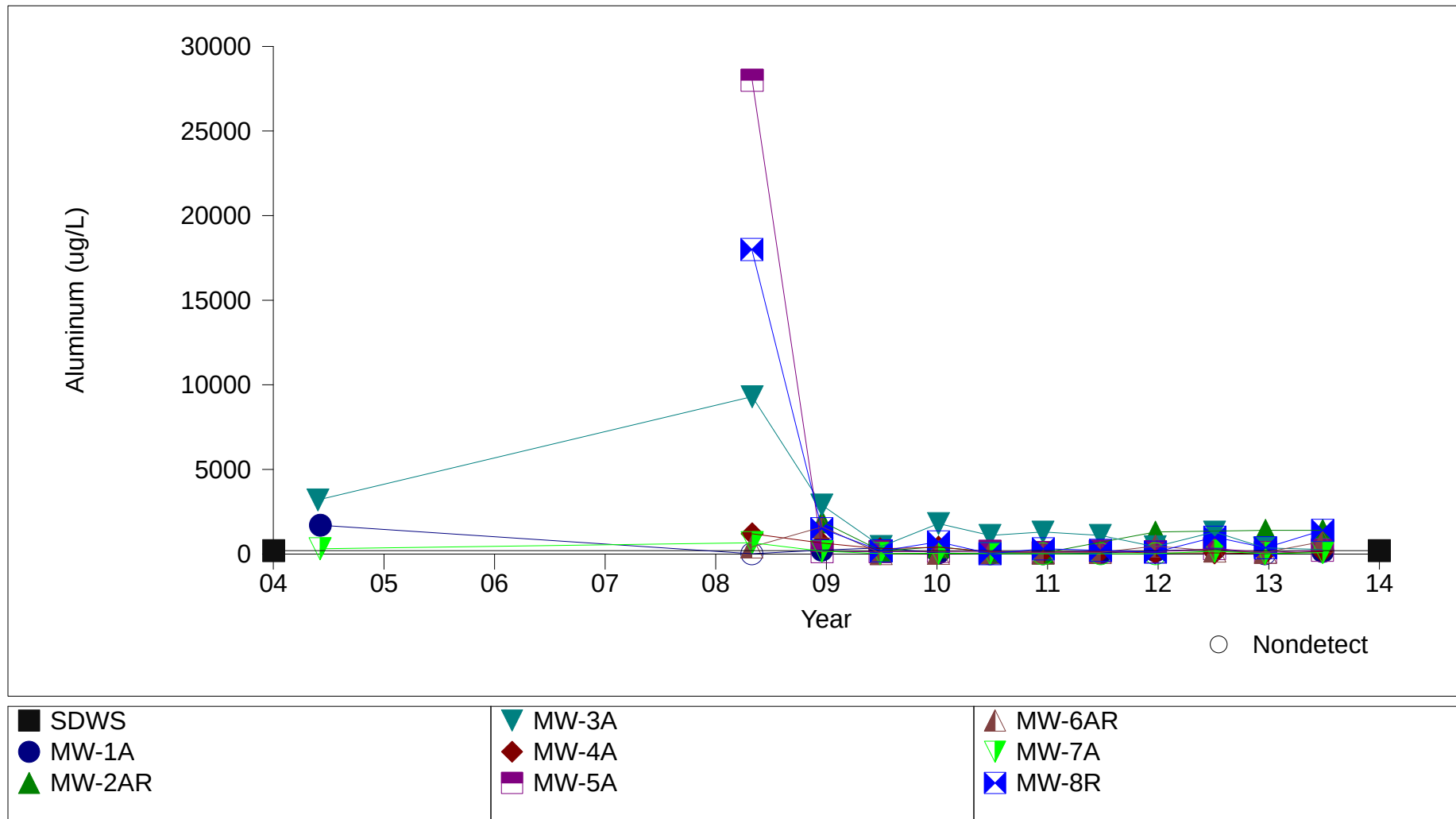
- Notes:
1. PDWS = Primary Drinking Water Standard (62-550 F.A.C.)
 2. SDWS = Secondary Drinking Water Standard (62-550 F.A.C.)
 3. GCTL = Groundwater Clean-Up Target Level (62-777 F.A.C.)
 4. NS = No numeric standard has been set for this analyte.
 5. --- = Parameter not analyzed.
 6. mg/L = milligrams per liter
 7. ug/L = micrograms per liter
 8. SU = Standard Units
 9. NTU = nephelometric turbidity units
 10. umhos/cm = micromhos per centimeter
 11. % Sat = percent saturation
 12. Yellow shaded values indicate parameter concentrations exceed primary, secondary drinking water standards, or groundwater cleanup target levels.
 13. Degrees C = degrees Celsius
 14. U = Analyte concentration was below the laboratory detection limit (value shown).
 15. I = Analyte concentration was between the laboratory detection limit and laboratory practical quantitation limit.
 16. V = Analyte was detected in the sample and associated method blank.
 17. Q = Sample held beyond the accepted holding time.
 18. Y = Laboratory analysis was from an improperly preserved sample. The data may not be accurate.
 19. Dry = Monitoring well purged dry and a sample was not collected.

APPENDIX C

TIME SERIES PLOTS OF WATER QUALITY TRENDS

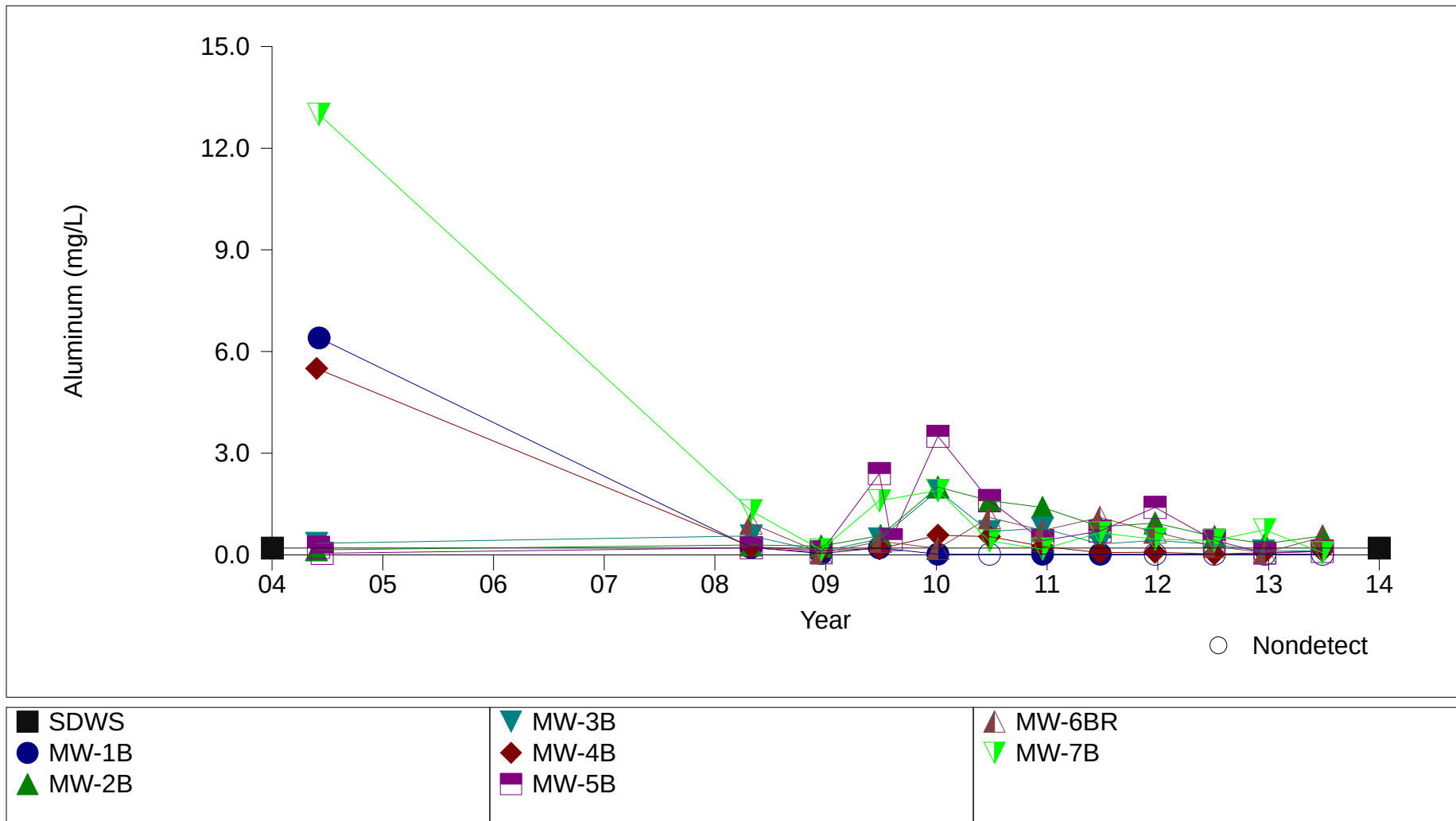
Vista Landfill

Figure C-1. Upper Surficial Time Series Plot for Aluminum



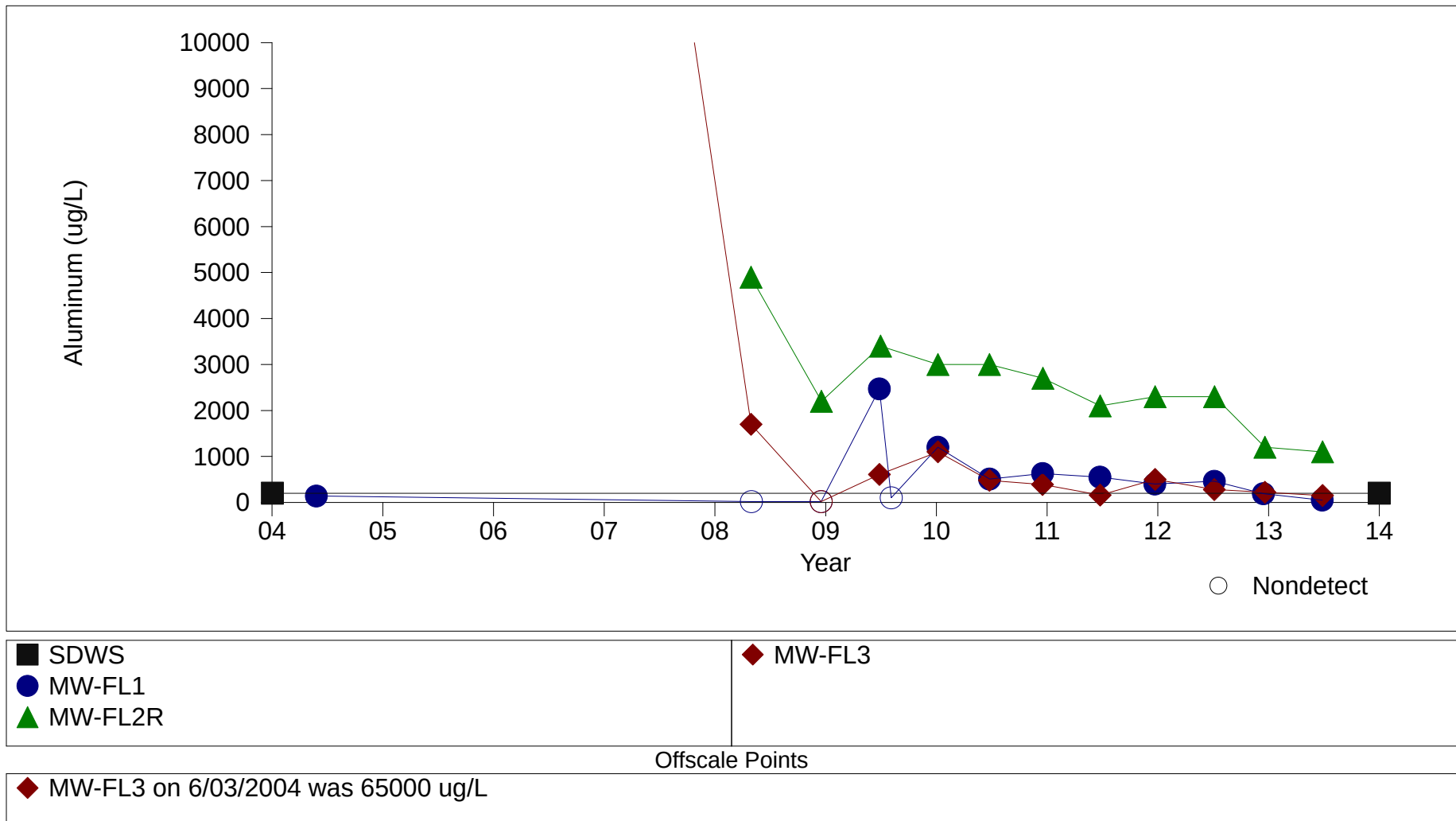
Vista Landfill

Figure C-2. Lower Surficial Time Series Plot for Aluminum



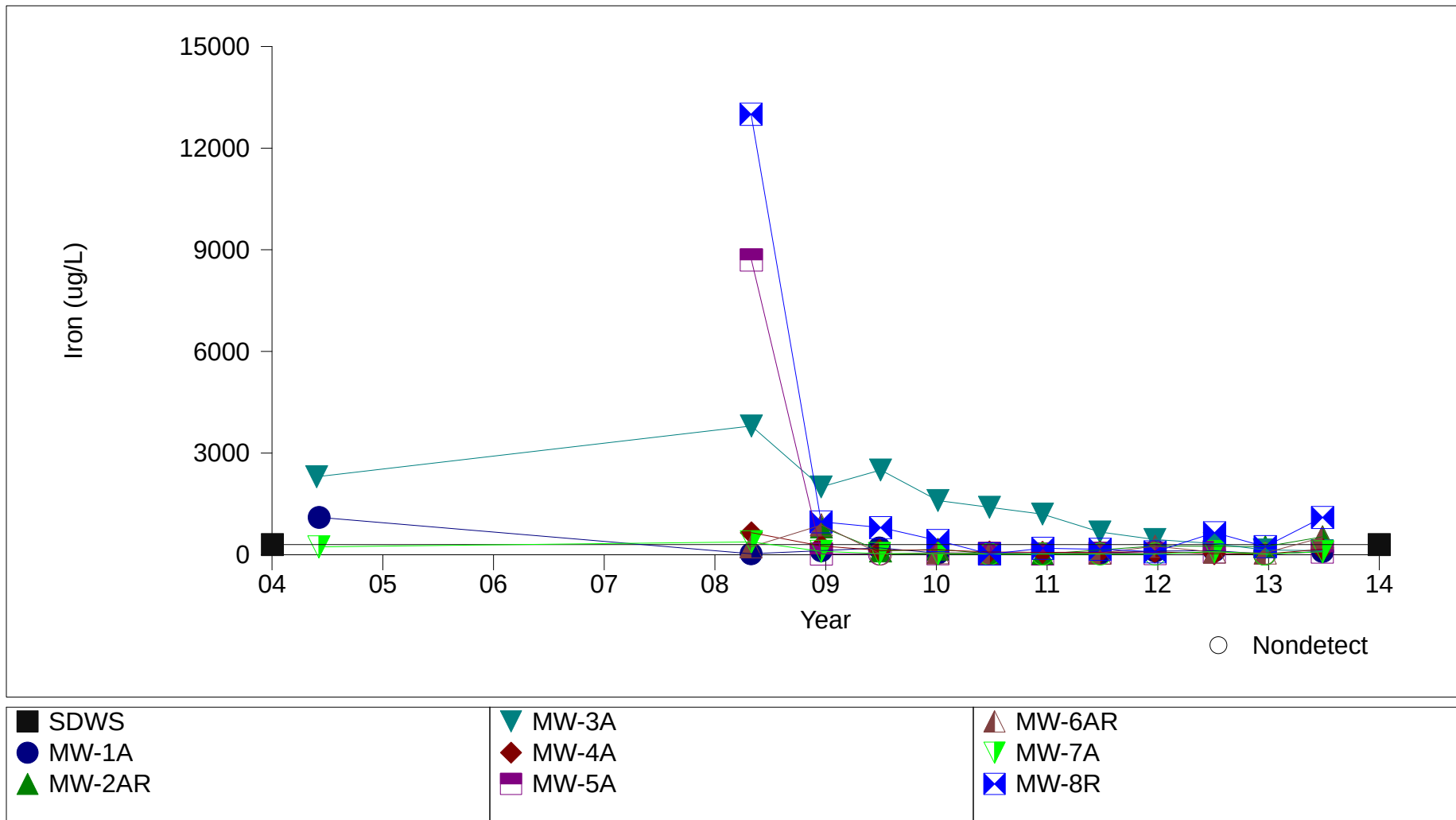
Vista Landfill

Figure C-3. Floridan Time Series Plot for Aluminum



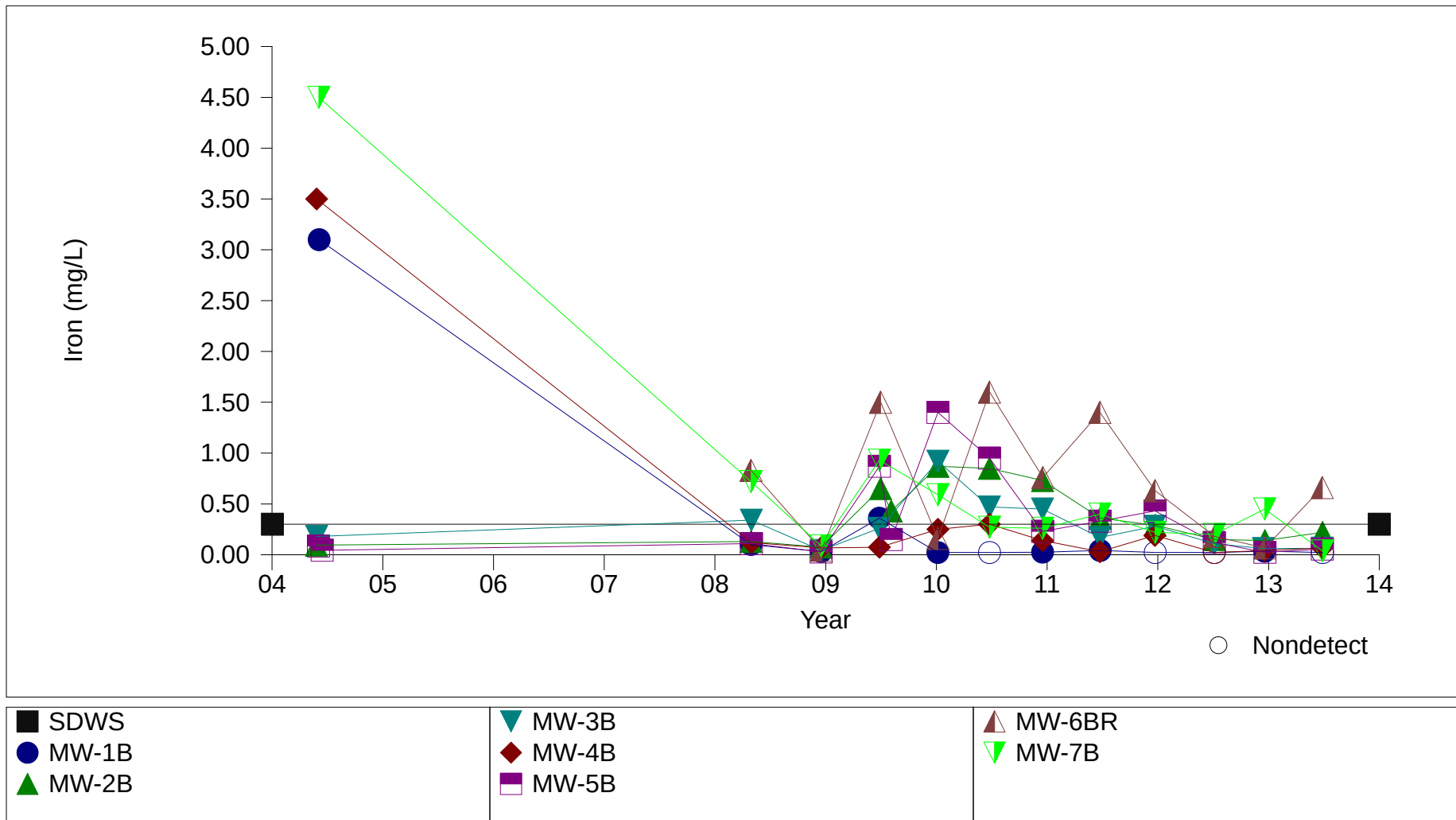
Vista Landfill

Figure C-4. Upper Surficial Time Series Plot for Iron



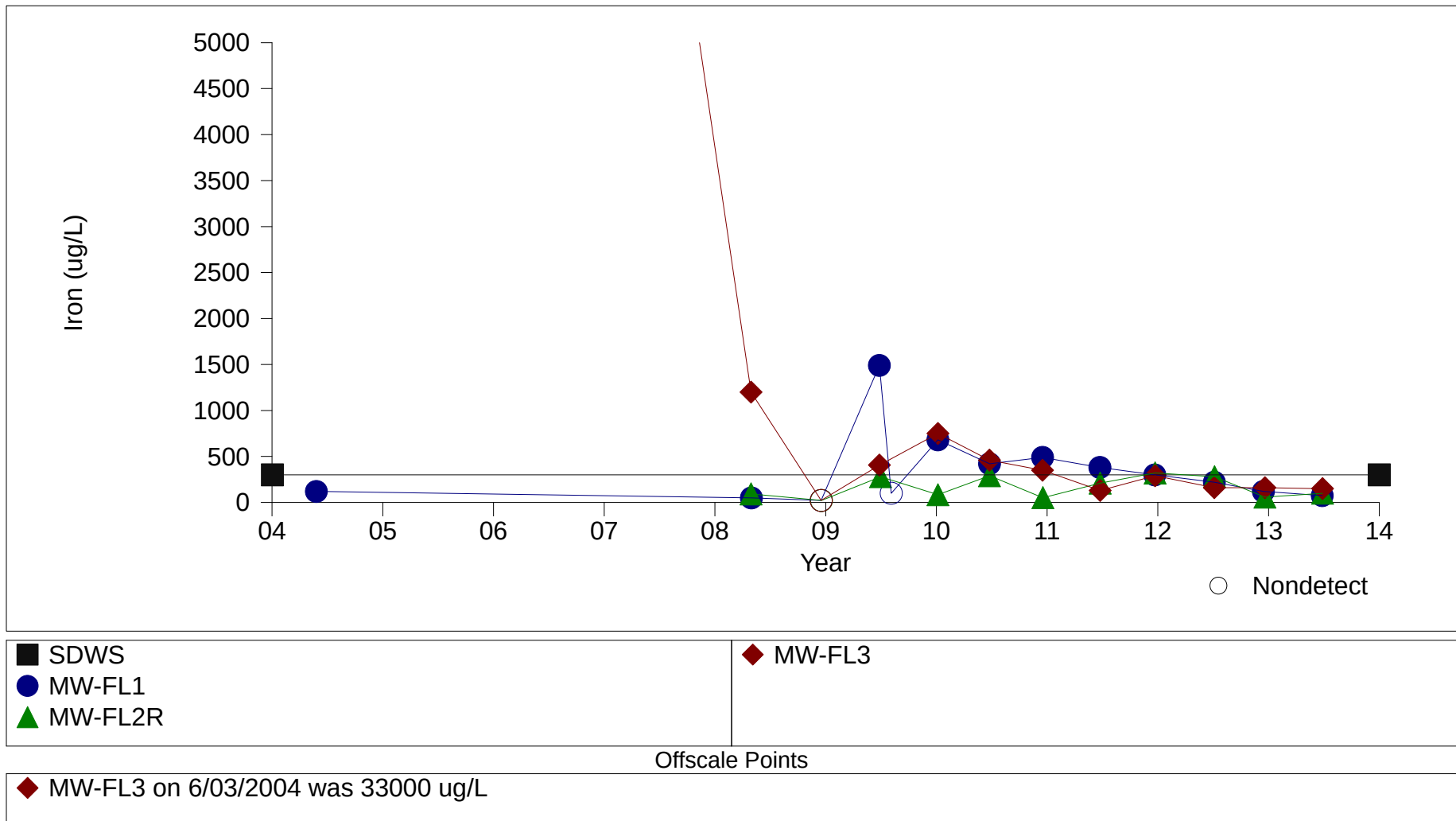
Vista Landfill

Figure C-5. Lower Surficial Time Series Plot for Iron



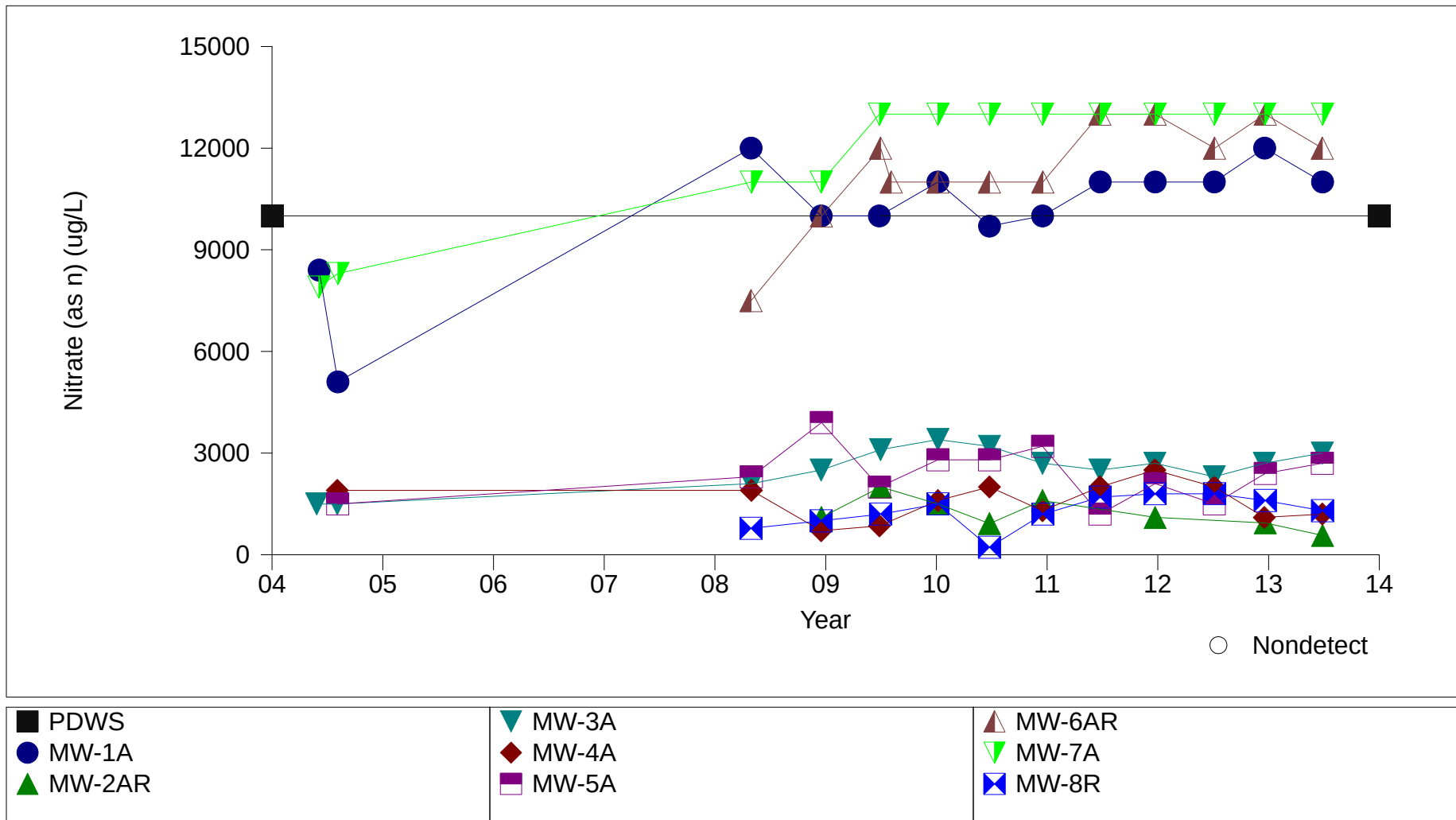
Vista Landfill

Figure C-6. Floridan Time Series Plot for Iron



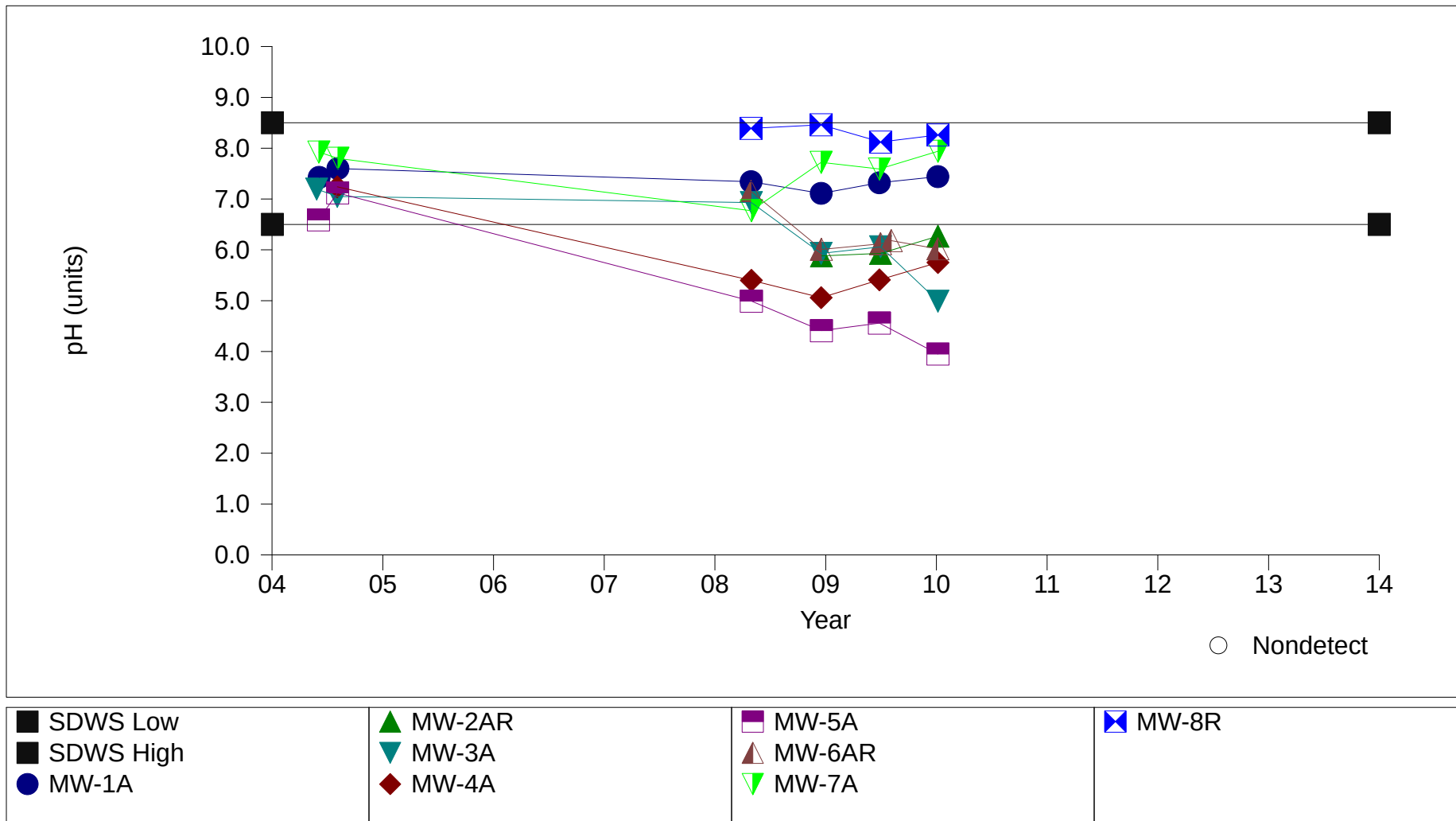
Vista Landfill

Figure C-7. Upper Surficial Time Series Plot for Nitrate (as n)



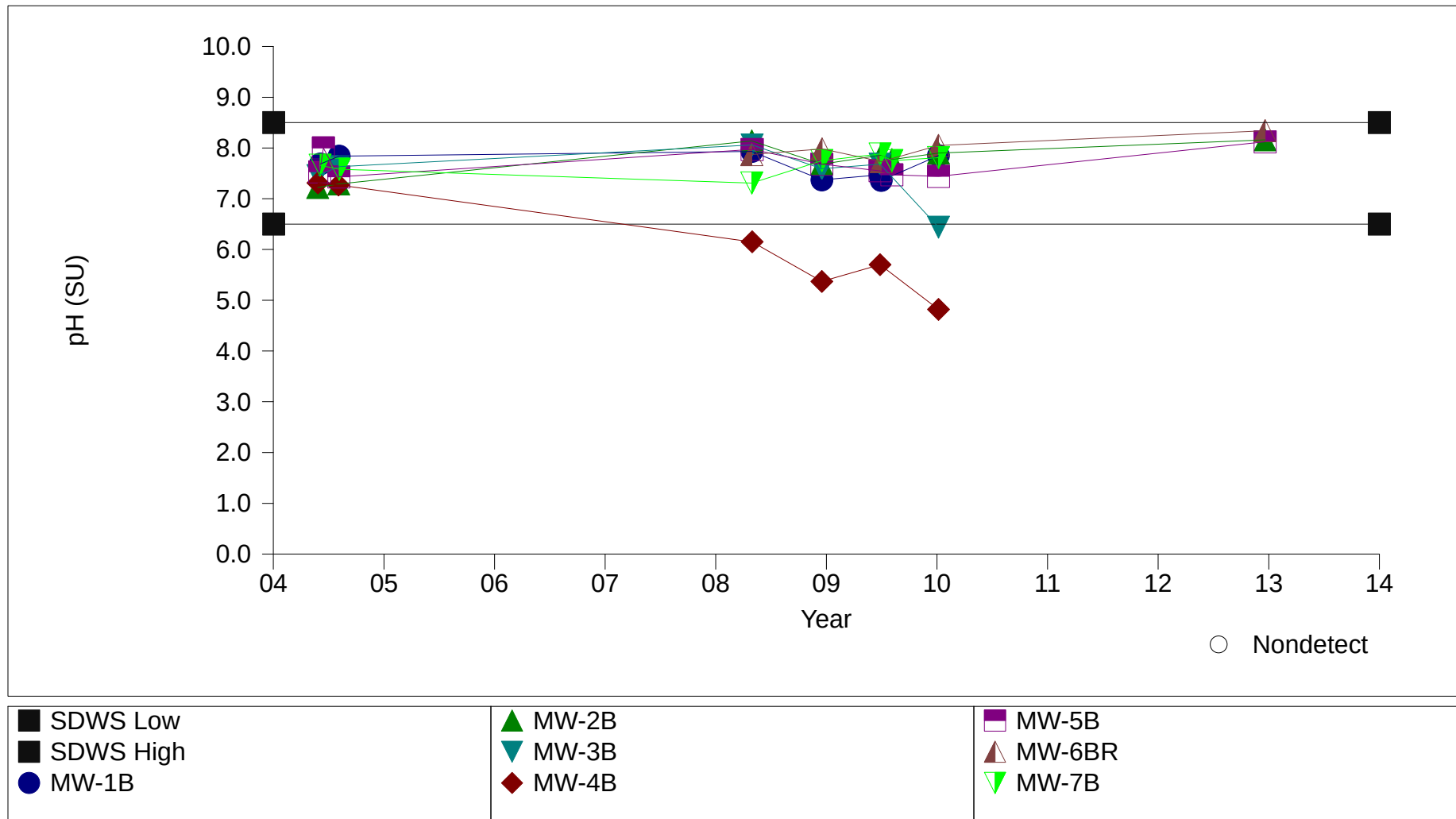
Vista Landfill

Figure C-8. Upper Surficial Time Series Plot for pH



Vista Landfill

Figure C-9. Lower Surficial Time Series Plot for pH



Vista Landfill

Figure C-10. Lower Surficial Time Series Plot for pH

