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December 3, 2010

Mr. F. Thomas Lubozynski, P.E.
Waste Program Administrator
Solid and Hazardous Waste Program
Florida Department of Environmental Protection, Central District
3319 Maguire Boulevard, Suite 232
Orlando, Florida 32803-3767

RECEIVED
DEC 7 2010
DEP Central Dist.

Re: Third Biennial Technical Report on Water Quality
J.E.D. Solid Waste Management Facility, Osceola County, Florida
Permit No. SC49-0199726-004 and SO49-0199726-005

Dear Mr. Lubozynski:

Submitted herewith is the Third Biennial Technical Report on Water Quality for the J.E.D. Solid Waste Management (JED) Facility located in Osceola County, Florida. This report is being submitted as required for compliance with Specific Condition 14 and the conditions contained within Exhibit I, Monitoring Plan Implementation Schedule (MPIS) of the above referenced permit. This report satisfies the biennial technical reporting compliance requirements as described in Exhibit I of the permit.

As noted in the permit, one hard copy of the report along with an electronic copy of the report on a CD is being submitted to FDEP. The CD with a pdf copy of the entire report is attached to the inside of the front cover of the report. If you have any questions or need additional information, please do not hesitate to contact the undersigned at (813) 388-1026.

Sincerely,

Kirk Wills
Senior Engineer

Attachments

Copy: Mike Kaiser, WSI

Submitted to:



**Florida Department of Environmental Protection,
Central District**

**THIRD BIENNIAL TECHNICAL REPORT ON
WATER QUALITY**

**J.E.D. SOLID WASTE MANAGEMENT
FACILITY**

Osceola County, Florida

Prepared for:



Omni Waste of Osceola County, LLC

1501 Omni Way
St. Cloud, Florida 34773

Prepared by:



Environmental Planning Specialists, Inc.

1936 Bruce B. Downs Blvd. No. 328
Wesley Chapel, Florida 33543
(813) 388-1026

November 2010

[Signature]
November 2010

Submitted to:



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A handwritten signature in blue ink.
11/30/2010

TABLE OF CONTENTS

1.	Introduction.....	1
1.1	Terms of Reference.....	1
1.2	Overview.....	1
1.3	Project Background.....	2
1.4	Objective of Report.....	3
1.5	Report Organization.....	3
2.	Monitoring Well Details	5
2.1	Well Layout and Construction	5
3.	Water Quality Monitoring.....	7
3.1	Groundwater Sampling	7
3.1.1	Sampling Locations and Procedures.....	7
3.1.2	Sample Analyses.....	8
3.2	Surface Water Sampling	9
3.2.1	Sampling Locations and Procedures.....	9
3.2.2	Sample Analyses.....	9
3.3	Leachate Sampling.....	10
3.3.1	Sampling Locations and Procedures.....	10
3.3.2	Sample Analyses.....	10
4.	Field-Measured parameters.....	12
4.1	Overview.....	12
4.2	Groundwater	12
4.3	Surface Water	12
4.4	Leachate	12
5.	Detected parameters.....	13
5.1	Overview.....	13
5.2	Groundwater	13
5.3	Surface Water	13
5.4	Leachate	14
6.	Trend analyses	15
6.1	Overview.....	15

6.2	Groundwater	15
6.2.1	Arsenic	15
6.2.2	Ammonia (as N)	17
6.2.3	Beryllium	18
6.2.4	Chromium	19
6.2.5	Iron.....	19
6.2.6	Lead	19
6.2.7	Toluene	20
6.2.8	Total Dissolved Solids (TDS).....	20
6.2.9	Vanadium.....	20
6.2.10	Benzene.....	21
6.2.11	Vinyl Chloride	21
6.2.12	pH	21
6.2.13	Turbidity	22
6.3	Surface Water	23
6.3.1	pH	23
6.3.2	Dissolved Oxygen.....	23
6.3.3	Iron	24
6.3.4	Fecal Coliform	24
7.	Comparison Among Wells In Different Hydrologic Zones.....	25
7.1	Overview.....	25
7.2	Field-Measured Parameters	25
7.3	Detected Parameters	25
8.	Comparison Between Background and Detection Wells.....	26
8.1	Overview.....	26
8.2	Statistical Analysis.....	26
9.	Correlations Between Related Parameters.....	28
9.1	Overview.....	28
10.	Discussion of Erratic or Poorly Correlated Data	29
10.1	Overview	29
10.2	Detected Analytes	29
10.2.1	Acetone	29
10.2.2	Antimony	30
10.2.3	Cadmium.....	30

10.2.4	Chloroform	30
10.2.5	Cobalt.....	30
10.2.6	Copper.....	30
10.2.7	Cis-1,2-Dichloroethene.....	30
10.2.8	Ethylbenzene.....	31
10.2.9	Mercury.....	31
10.2.10	Nickel.....	31
10.2.11	Nitrate-N	31
10.2.12	Selenium	31
10.2.13	Silver.....	32
10.2.14	Thallium.....	32
10.2.15	Xylene.....	32
10.2.16	Zinc	32
10.2.17	Other Volatile Organic Compounds	32
11.	Groundwater Contour Map Evaluation.....	34
11.1	Groundwater Level Contour Map	34
11.2	Groundwater Flow Rate Calculations	35
12.	Evaluation of Adequacy of Monitoring Frequency and Sampling locations.....	36
	References.....	38

LIST OF TABLES

2-1	Summary of Monitoring Well Construction Details
3-1	Surface Water Monitoring Geographic Locations
3-2	Leachate Sampling Sites Geographic Locations
4-1	Groundwater Field-Measured Parameters - pH
4-2	Groundwater Field-Measured Parameters - Temperature
4-3	Groundwater Field-Measured Parameters - Specific Conductance
4-4	Groundwater Field-Measured Parameters - Turbidity
4-5	Groundwater Field-Measured Parameters – Dissolved Oxygen
4-6	Surface Water Field-Measured Parameters
4-7	Leachate Field Measured Parameters
5-1	Arsenic Concentrations in Monitoring Wells
5-2	Ammonia (as N) Concentrations in Monitoring Wells
5-3	Beryllium Concentrations in Monitoring Wells

- 5-4 Chromium Concentrations in Monitoring Wells
- 5-5 Iron Concentrations in Monitoring Wells
- 5-6 Lead Concentrations in Monitoring Wells
- 5-7 Toluene Concentrations in Monitoring Wells
- 5-8 Total Dissolved Solids (TDS) Concentrations in Monitoring Wells
- 5-9 Vanadium Concentrations in Monitoring Wells
- 5-10 Benzene Concentrations in Monitoring Wells
- 5-11 Vinyl Chloride Concentrations in Monitoring Wells
- 5-12 Surface Water Detections (SW-3)
- 5-13 Surface Water Detections (SW-4)
- 5-14 Leachate Detections (L-1 through L-6)

- 11-1 Groundwater Elevation Measurements

LIST OF FIGURES

- 2-1A Monitoring Well Location Map
- 2-1B Monitoring Well Location Map
- 2-1C Surface Water Sampling Locations Map

- 6-1 Groundwater Trends – Arsenic
- 6-2 Groundwater Trends – Ammonia (as N)
- 6-3 Groundwater Trends – Beryllium
- 6-4 Groundwater Trends – Chromium
- 6-5 Groundwater Trends – Iron
- 6-6 Groundwater Trends – Lead
- 6-7 Groundwater Trends – Toluene
- 6-8 Groundwater Trends – Total Dissolved Solids (TDS)
- 6-9 Groundwater Trends – Vanadium
- 6-10 Groundwater Trends – Benzene
- 6-11 Groundwater Trends – Vinyl Chloride
- 6-12 Groundwater Trends – pH
- 6-13 Groundwater Trends –Turbidity
- 6-14 Surface Water Trends – pH, DO, and Iron

- 9-1 Correlation Plot for TDS and Specific Conductance
- 9-2 Correlation Plot for Iron and Arsenic

- 11-1 Hydrographs for “A” zone Wells
- 11-2 Hydrographs for “B” zone Wells
- 11-3 Hydrographs for “C” zone Wells
- 11-4 Hydrographs for Piezometers
- 11-5 Hydrographs of Up-gradient Wells (MW-1 and MW-5)
- 11-6 Hydrographs of Down-gradient Wells (MW-9 and MW-13)

APPENDICES

- Appendix A CD Containing Laboratory Reports for 9th – 12th Semi-Annual Monitoring Events
- Appendix B Detected Parameters With No Regulatory Levels Exceeded
- Appendix C Groundwater Contour Maps for the 9th – 12th Semi-Annual Monitoring Events

1. INTRODUCTION

1.1 Terms of Reference

On behalf of Omni Waste of Osceola County, LLC, Environmental Planning Specialists, Inc. (EPS) has prepared this third biennial technical report on water quality (BTRWQ) for the J.E.D. Solid Waste Management (JED) facility. This BTRWQ summarizes and interprets the water quality monitoring performed in accordance with the Water Quality Monitoring Plan (Plan) prepared as part of the JED facility permit application. The requirements for executing the Plan are presented in the Exhibit I - Monitoring Plan Implementation Schedule (MPIS) of the current Permit (Permit Numbers SC49-0199726-004 and SO49-0199726-005) that authorizes the development of Phases 1 through 3 at the JED facility issued by the Florida Department of Environmental Protection (FDEP) on March 22, 2007. It is noted that these permits were modified by Permit Numbers SC49-0199726-006 and SO49-0199726-007, issued by FDEP on April 4, 2008 for the vertical expansion of the JED facility, and by Permit Number SO49-0199726-11 issued by FDEP on June 22, 2009 which updated the electronic data submittal requirements. In addition to these Permit modifications, the MPIS was revised on April 6, 2009 updating the sampling locations and schedule.

This third BTRWQ was prepared by Mr. Kirk Wills and Mr. Don Thompson, P.G. of EPS.

1.2 Overview

The Plan and Exhibit I (MPIS) describe a water quality monitoring program at the JED facility that has as its intent to: (i) measure and report groundwater and surface water conditions for the monitoring network; (ii) monitor the groundwater flow direction; (iii) monitor the groundwater and surface water quality on a semi-annual basis; and (iv) monitor leachate on an annual basis. To date, in addition to the initial background (baseline) events for Phase 1, 2, and 3 monitoring well networks, twelve (12) semi-annual water quality monitoring events have been completed. This report includes the summary and interpretation of water quality data collected from the following water quality monitoring events:

- (i) initial background event for Phase 1 performed in January 2004;
- (ii) first semi-annual event performed in July 2004;
- (iii) second semi-annual event performed in January 2005;
- (iv) third semi-annual event performed in July 2005;
- (v) fourth semi-annual event performed in February 2006;

- (vi) fifth semi-annual event performed in July 2006;
- (vii) sixth semi-annual event performed in February 2007;
- (viii) initial background event for Phases 2 and 3 performed in September 2007;
- (ix) seventh semi-annual event performed in November 2007;
- (x) eighth semi-annual event performed in May 2008;
- (xi) ninth semi-annual event performed in November 2008;
- (xii) tenth semi-annual event performed in May 2009;
- (xiii) eleventh semi-annual event performed in November 2009; and
- (xiv) twelfth semi-annual event performed in May 2010.

The first BTRWQ was submitted to FDEP in November 2006 after completion of the fourth semi-annual monitoring event. The second BTRWQ was submitted to FDEP in September 2008 after the eighth semi-annual monitoring event. This is the third BTRWQ prepared for the JED facility and includes all the data collected from all of the previous events listed above. The format of this third BTRWQ is consistent with the previous two BTRWQ's that have been submitted to the FDEP for the JED facility.

1.3 Project Background

The JED facility is located in eastern Osceola County, Florida, west of highway U.S. 441, and approximately 6.5 miles south of Holopaw. The facility includes a Class I landfill which is linked to highway U.S. 441 by a 2.86-mile access road. The JED facility comprises a total of approximately 2,179 acres. The landfill footprint at build-out will be approximately 264 acres and consist of a total of 21 landfill cells that will provide available waste capacity for a period of approximately 30 years. The FDEP issued a permit to construct and operate the Phase 1 development of the JED facility in October 2003. Phase 1 development includes four landfill cells (Cells 1 through 4) located in the northern part of the landfill and covering approximately 54 acres. As part of Phase 1, forty-five (45) groundwater monitoring wells were installed in fifteen (15) clusters (MW-1 through MW-15) around the perimeter of the Phase 1 development area. The baseline water quality report for the Phase 1 monitoring well network was submitted to FDEP in May 2004. All components of the Phase 1 development have been constructed.

The FDEP issued a permit to construct and operate Phases 2 and 3 at the JED facility in March 2007. The development of Phases 2 and 3 includes six cells (Cells 5 through 10) with a total footprint of approximately 72 acres. As part of Phases 2 and 3 development, and as approved by FDEP, six (6) existing Phase 1 monitoring wells (MW-14 A, B, and C, and MW-15 A, B, and C), and ten (10) piezometers were decommissioned. The wells and piezometers were decommissioned for construction of future cells, construction of a

storm water retention basin located within Phases 2 and 3, and due to the proximity of piezometers to the new network wells installed. The decommissioning of the monitoring wells and piezometers was discussed in the Phase 2 and 3 baseline water quality report. For the development of Phases 2 and 3, twenty four (24) additional groundwater monitoring wells were installed in eight (8) well clusters (MW-16 through MW-23) around the perimeter of the Phase 2 and 3 development areas in September 2007. The baseline water quality report for the Phase 2 and 3 monitoring well network was submitted to FDEP in January 2008.

The FDEP issued a permit to construct and operate Phases 1 through 3 with vertical expansion at the JED facility in April 2008. In April 2009, the MPIS for the semi-annual water quality monitoring well network and sampling schedule were updated for Phases 1, 2 and 3. The modification included a reduction of the Phase 3 monitoring wells required to be sampled semi-annually until such time that waste placement commences in one of the Phase 3 cells and the sampling schedule was modified for the B-zone (intermediate) and C-zone (deep) monitoring wells to an alternating annual basis. At the time of this report, Cell 7 has been constructed but waste placement within the cell has not commenced. Cell 1 was completed in January 2004, Cell 4 was completed in May 2005, Cell 2 was completed in April 2006, Cell 3 was completed in October 2006, Cell 5 was completed in October 2007, Cell 6 was completed in July 2008, and Cell 7 was completed in August 2010. For monitoring purposes, the JED facility was given the Water Assurance Compliance System (WACS) facility identification number 89544.

1.4 Objective of Report

The objective of this third BTRWQ is to summarize and interpret the water quality monitoring results and water level measurements collected at the JED facility, as required by the MPIS of the current FDEP permit.

1.5 Report Organization

To facilitate review, the remainder of this third BTRWQ is organized in accordance with the requirements presented in the MPIS, which are as follows:

- Section 2 presents a summary of the monitoring well construction details;
- Section 3 describes the water quality monitoring sampling and analysis procedures;
- Section 4 presents tabular displays of the field measured parameters;

- Section 5 includes tabular displays of water quality data of detected monitoring parameters exceeding regulatory levels;
- Section 6 presents trend analyses and graphical displays of monitoring parameters exceeding regulatory levels;
- Section 7 addresses the requirement for comparison of wells completed in different hydrologic zones;
- Section 8 provides comparisons of water quality between background wells and detection wells;
- Section 9 presents correlations between related parameters such as total dissolved solids and specific conductance;
- Section 10 presents a discussion of erratic and/or poorly correlated data;
- Section 11 presents an interpretation of groundwater contour maps and an evaluation of groundwater flow rates including hydrographs for all monitoring wells; and
- Section 12 provides a discussion on the adequacy of water quality monitoring frequency and sampling locations based on site conditions and the available data.

2. MONITORING WELL DETAILS

2.1 Well Layout and Construction

For the Phase 1 development, forty five (45) groundwater monitoring wells were installed in fifteen (15) clusters (MW-1 through MW-15) around the perimeter of the Phase 1 development area. Monitoring well clusters were located such that the spacing between well clusters was no greater than 500 ft, in accordance with the FDEP permit requirements. For development of Phases 2 and 3, twenty four (24) groundwater monitoring wells were installed in eight (8) clusters (MW-16 through MW-23) around the perimeter of the Phase 2 and 3 development areas. In accordance with the FDEP permit requirements, the monitoring well clusters were located such that the spacing between detection well clusters (MW-16 through MW-21) was approximately 500 feet, and the spacing between background well clusters (MW-22 and MW-23) was approximately 800 feet. Each monitoring well cluster consisted of three (3) groundwater monitoring wells installed (i) across the water table to monitor the upper limit of the surficial aquifer (identified as A-zone [shallow] wells); (ii) within the lower limit of the upper surficial aquifer above the intermediate clay layer (identified as C-zone [deep] wells); and (iii) at an intermediate depth between the shallow and deep wells (identified as B-zone [intermediate] wells).

A layout depicting the location of groundwater monitoring wells installed for Phases 1, 2 and 3, and the piezometers installed as part of the hydrogeologic investigation are shown on Figures 2-1A and 2-1B. As shown, groundwater monitoring well clusters MW-1 through MW-13 and MW-23 were installed along the top outer edge of the landfill perimeter berm. The ground surface at the location of the wells in the perimeter berm is at approximately Elevation 92 feet with respect to National Geodetic Vertical Datum of 1929 (NGVD, 1929). Groundwater monitoring well clusters MW-16 and MW-17 were installed along the outer edge of the landfill perimeter berm that serves as the initial storm water berm. The ground surface at these two well locations is at approximately Elevation 85 feet (NGVD, 1929). Groundwater monitoring well clusters MW-18 through MW-22 were installed along the interim Phase 3 storm water berm at the southern limit of the Phase 3 development at approximately Elevation 84 feet (NGVD, 1929). The location of each well (latitude and longitude, and elevation [NGVD, 1929]) was surveyed by professional land surveyors licensed in the State of Florida.

Wells were constructed with 2-in diameter threaded schedule 40 PVC casing. The well screens were 10-ft in length with #6-slot (0.006-in.) machine slotted PVC screen. A 30/45 graded silica sand was placed around the screen to a height of 2 to 3 ft above the

top of the screen. A seal of 30/65 graded fine silica sand was placed above the sand filter around the screen. The remaining annular space from the top of the fine sand filter seal to the existing ground surface was grouted using a tremmie pipe with a cement/bentonite mixture containing no more than 5 percent bentonite by dry weight. The PVC well casings were extended approximately 2.5 to 3 ft above the existing ground surface. Surface completion consisted of a protective steel or aluminum casing with a lockable cover set in a concrete pad. Each well was provided with a well cap, padlock, and an identification label. A summary of the monitoring well construction details are presented in Table 2-1.

Table 2-1 (1 of 3)

**Summary of Monitoring Well Construction Details
Third Biennial Technical Report on Water Quality
J.E.D. Solid Waste Management Facility**

Well Designation	Latitude (NAD 1983)	Longitude (NAD 1983)	WACS ID	Date Installed	Top of Casing Elevation, TOC (feet)	Total Depth (feet BTOC)	Screen Setting				Sand Pack (feet BTOC)	Fine-Grained Sand Seal (feet BTOC)
							(feet BTOC)		(feet Elevation)			
							Top	Bottom	Top	Bottom		
MW-1A	28 03 48.55	81 05 59.88	19900	9-Dec-03	95.1	23.0	13.0	23.0	82.1	72.1	10.6	8.2
MW-2A	28 03 51.99	81 05 59.90	19903	10-Dec-03	95.2	22.6	12.6	22.6	82.6	72.6	10.3	8.9
MW-3A	28 03 55.34	81 05 59.91	19906	11-Dec-03	94.6	22.8	12.8	22.8	81.9	71.9	10.4	9.0
MW-4A	28 03 58.97	81 05 59.92	19909	12-Dec-03	95.5	23.1	13.1	23.1	82.4	72.4	10.8	9.4
MW-5A	28 04 02.92	81 05 59.95	19912	24-Nov-03	95.3	22.5	12.5	22.5	82.8	72.8	10.1	9.1
MW-6A	28 04 06.50	81 05 59.15	19915	25-Nov-03	94.7	22.6	12.6	22.6	82.2	72.2	10.6	8.6
MW-7A	28 04 07.13	81 05 54.78	19918	26-Nov-03	95.5	23.3	13.3	23.3	82.2	72.2	10.3	9.3
MW-8A	28 04 06.20	81 05 50.64	19921	5-Dec-03	94.7	22.5	12.5	22.5	82.2	72.2	10.2	8.6
MW-9A	28 04 04.34	81 05 46.60	19924	4-Dec-03	94.7	22.4	12.4	22.4	82.3	72.3	10.0	8.6
MW-10A	28 04 00.07	81 05 44.77	19927	3-Dec-03	96.3	22.1	12.1	22.1	84.1	74.1	9.8	7.6
MW-11A	28 03 55.43	81 05 43.27	19930	3-Dec-03	93.6	22.8	12.8	22.8	80.7	70.7	10.5	9.1
MW-12A	28 03 52.08	81 05 43.26	19933	2-Dec-03	95.1	23.0	13.0	23.0	82.1	72.1	10.7	9.3
MW-13A	28 03 48.67	81 05 43.25	19936	8-Dec-03	95.2	22.5	12.5	22.5	82.7	72.7	10.2	7.7
MW-14A	Monitoring Well Abandoned 10 July 2007											
MW-15A	Monitoring Well Abandoned 10 July 2007											
MW-16A	28 03 44.55	81 05 40.22	22342	21-Sep-07	88.69	18.63	8.1	18.1	80.6	70.6	6.1	5.1
MW-17A	28 03 42.38	81 05 35.42	22345	22-Sep-07	88.86	19.88	9.4	19.4	79.5	69.5	7.4	6.4
MW-18A	28 03 37.21	81 05 35.16	22348	11-Sep-07	87.56	17.70	7.2	17.2	80.4	70.4	5.2	4.2
MW-19A	28 03 33.40	81 05 39.60	22351	11-Sep-07	87.54	17.65	7.2	17.2	80.4	70.4	5.2	4.2
MW-20A	28 03 31.82	81 05 45.45	22354	19-Sep-07	87.12	17.93	7.4	17.4	79.7	69.7	5.4	4.4
MW-21A	28 03 32.10	81 05 52.48	22357	14-Sep-07	87.20	18.04	7.5	17.5	79.7	69.7	5.5	4.5
MW-22A	28 03 32.35	81 05 59.48	22360	14-Sep-07	87.71	18.00	7.5	17.5	80.2	70.2	5.5	4.5
MW-23A	28 03 42.41	81 05 59.79	22363	25-Sep-07	97.90	27.75	17.3	27.3	80.7	70.7	15.3	14.3

Table 2-1 (2 of 3)

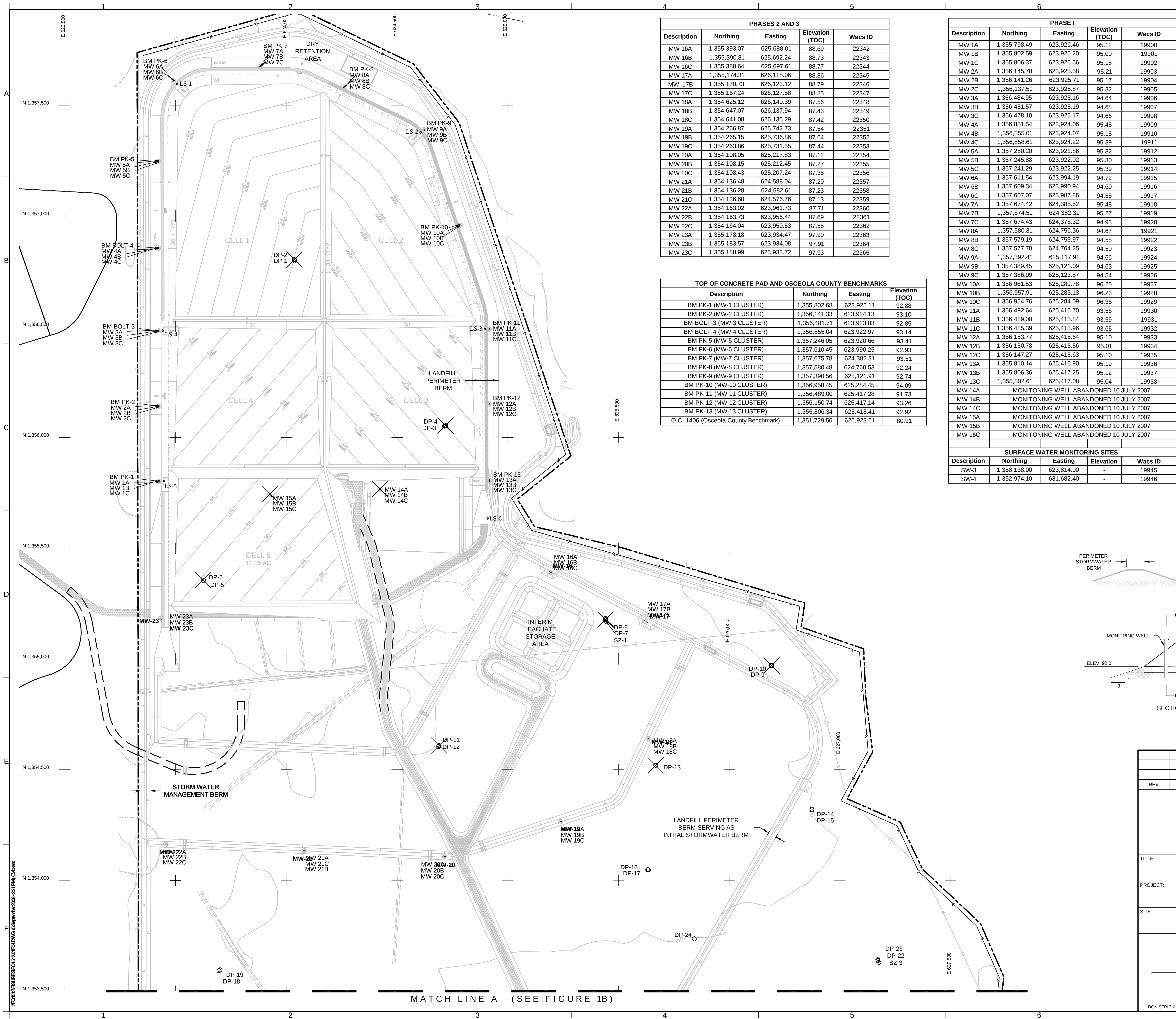
**Summary of Monitoring Well Construction Details
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Well Designation	Latitude (NAD 1983)	Longitude (NAD 1983)	WACS ID	Date Installed	Top of Casing Elevation, TOC (feet)	Total Depth (feet BTOC)	Screen Setting				Sand Pack (feet BTOC)	Fine-Grained Sand Seal (feet BTOC)
							(feet BTOC)		(feet Elevation)			
							Top	Bottom	Top	Bottom		
MW-1B	28 03 48.59	81 05 59.89	19901	9-Dec-03	95.0	47.9	37.9	47.9	57.1	47.1	35.6	33.1
MW-2B	28 03 51.94	81 05 59.90	19904	10-Dec-03	95.2	48.3	38.3	48.3	56.9	46.9	36.0	34.6
MW-3B	28 03 55.31	81 05 59.91	19907	11-Dec-03	94.7	47.6	37.6	47.6	57.1	47.1	35.3	33.9
MW-4B	28 03 59.01	81 05 59.92	19910	12-Dec-03	95.2	47.4	37.4	47.4	57.8	47.8	35.1	33.5
MW-5B	28 04 02.88	81 05 59.95	19913	24-Nov-03	95.3	47.1	37.1	47.1	58.2	48.2	34.4	32.7
MW-6B	28 04 06.48	81 05 59.18	19916	25-Nov-03	94.6	47.4	37.4	47.4	57.2	47.2	34.9	33.5
MW-7B	28 04 07.13	81 05 54.81	19919	26-Nov-03	95.3	47.5	37.5	47.5	57.8	47.8	34.5	33.5
MW-8B	28 04 06.19	81 05 50.60	19922	5-Dec-03	94.6	49.6	39.6	49.6	55.0	45.0	37.1	35.6
MW-9B	28 04 04.31	81 05 46.56	19925	4-Dec-03	94.6	49.1	39.1	49.1	55.5	45.5	36.8	35.3
MW-10B	28 04 00.04	81 05 44.75	19928	3-Dec-03	96.2	48.3	38.3	48.3	58.0	48.0	35.9	33.9
MW-11B	28 03 55.40	81 05 43.27	19931	2-Dec-03	93.6	47.9	37.9	47.9	55.7	45.7	35.5	34.0
MW-12B	28 03 52.05	81 05 43.27	19934	1-Dec-03	95.0	49.0	39.0	49.0	56.1	46.1	36.6	35.1
MW-13B	28 03 48.64	81 05 43.24	19937	8-Dec-03	95.1	47.2	37.2	47.2	58.0	48.0	34.8	33.4
MW-14B	Monitoring Well Abandoned 10 July 2007											
MW-15B	Monitoring Well Abandoned 10 July 2007											
MW-16B	28 03 44.52	81 05 40.17	22343	21-Sep-07	88.73	38.09	27.6	37.6	61.1	51.1	25.6	24.6
MW-17B	28 03 42.35	81 05 35.36	22346	20-Sep-07	88.79	40.18	29.7	39.7	59.1	49.1	27.7	26.7
MW-18B	28 03 37.16	81 05 35.19	22349	11-Sep-07	87.43	37.80	27.3	37.3	60.1	50.1	25.3	24.3
MW-19B	28 03 33.38	81 05 39.66	22352	11-Sep-07	87.64	37.73	27.2	37.2	60.4	50.4	25.2	24.2
MW-20B	28 03 31.82	81 05 45.51	22355	19-Sep-07	87.27	37.76	27.3	37.3	60.0	50.0	25.3	24.3
MW-21B	28 03 32.09	81 05 52.55	22358	17-Sep-07	87.23	37.63	27.1	37.1	60.1	50.1	25.1	24.1
MW-22B	28 03 32.36	81 05 59.54	22361	14-Sep-07	87.69	37.96	27.5	37.5	60.2	50.2	25.5	24.5
MW-23B	28 03 42.46	81 05 59.79	22364	25-Sep-07	97.91	42.75	32.3	42.3	65.7	55.7	30.3	29.3

Table 2-1 (3 of 3)

**Summary of Monitoring Well Construction Details
Third Biennial Technical Report on Water Quality
J.E.D. Solid Waste Management Facility**

Well Designation	Latitude (NAD 1983)	Longitude (NAD 1983)	WACS ID	Date Installed	Top of Casing Elevation, TOC (feet)	Total Depth (feet BTOC)	Screen Setting				Sand Pack (feet BTOC)	Fine-Grained Sand Seal (feet BTOC)
							(feet BTOC)		(feet Elevation)			
							Top	Bottom	Top	Bottom		
MW-1C	28 03 48.63	81 05 59.88	19902	9-Dec-03	95.2	75.2	65.2	75.2	30.0	20.0	62.9	61.4
MW-2C	28 03 51.90	81 05 59.89	19905	10-Dec-03	95.3	68.4	58.4	68.4	36.9	26.9	56.1	53.7
MW-3C	28 03 55.28	81 05 59.91	19908	11-Dec-03	94.7	68.7	58.7	68.7	36.0	26.0	56.3	54.8
MW-4C	28 03 59.04	81 05 59.92	19911	12-Dec-03	95.4	72.5	62.5	72.5	32.9	22.9	61.2	59.6
MW-5C	28 04 02.83	81 05 59.95	19914	24-Nov-03	95.4	73.0	63.0	73.0	32.4	22.4	60.7	58.7
MW-6C	28 04 06.46	81 05 59.22	19917	25-Nov-03	94.6	73.2	63.2	73.2	31.4	21.4	60.2	57.7
MW-7C	28 04 07.13	81 05 54.86	19920	25-Nov-03	94.9	73.3	63.3	73.3	31.6	21.6	60.3	59.3
MW-8C	28 04 06.17	81 05 50.55	19923	5-Dec-03	94.5	73.9	63.9	73.9	30.6	20.6	61.6	59.8
MW-9C	28 04 04.29	81 05 46.53	19926	4-Dec-03	94.5	73.8	63.8	73.8	30.8	20.8	61.4	59.4
MW-10C	28 04 00.01	81 05 44.74	19929	3-Dec-03	96.4	73.7	63.7	73.7	32.7	22.7	61.4	60.0
MW-11C	28 03 55.36	81 05 43.26	19932	2-Dec-03	93.7	73.4	63.4	73.4	30.3	20.3	61.0	59.6
MW-12C	28 03 52.01	81 05 43.26	19935	1-Dec-03	95.1	73.6	63.6	73.6	31.5	21.5	60.2	58.7
MW-13C	28 03 48.60	81 05 43.25	19938	8-Dec-03	95.0	73.0	63.0	73.0	32.1	22.1	60.7	58.2
MW-14C	Monitoring Well Abandoned 10 July 2007											
MW-15C	Monitoring Well Abandoned 10 July 2007											
MW-16C	28 03 44.50	81 05 40.11	22344	21-Sep-07	88.8	67.7	57.2	67.2	31.6	21.6	55.2	54.2
MW-17C	28 03 42.31	81 05 35.31	22347	20-Sep-07	88.9	67.3	56.8	66.8	32.0	22.0	54.8	53.8
MW-18C	28 03 37.10	81 05 35.22	22350	12-Sep-07	87.4	67.2	56.7	66.7	30.8	20.8	54.7	53.7
MW-19C	28 03 33.37	81 05 39.72	22353	10-Sep-07	87.4	66.7	56.2	66.2	31.2	21.2	54.2	53.2
MW-20C	28 03 31.82	81 05 45.57	22356	18-Sep-07	87.4	66.8	56.3	66.3	31.1	21.1	54.3	53.3
MW-21C	28 03 32.10	81 05 52.61	22359	17-Sep-07	87.1	62.6	52.1	62.1	35.1	25.1	50.1	49.1
MW-22C	28 03 32.36	81 05 59.60	22362	13-Sep-07	87.6	67.3	56.8	66.8	30.8	20.8	54.8	53.8
MW-23C	28 03 42.51	81 05 59.80	22365	24-Sep-07	97.9	67.1	56.6	66.6	41.4	31.4	54.6	53.6



PHASES 2 AND 3				
Description	Northing	Easting	Elevation (TOC)	Wacs ID
MW 16A	1,355,393.07	625,688.01	88.69	22342
MW 16B	1,355,390.81	625,692.24	88.73	22343
MW 16C	1,355,388.64	625,697.61	88.77	22344
MW 17A	1,355,174.31	626,118.06	88.86	22345
MW 17B	1,355,170.73	626,123.12	88.79	22346
MW 17C	1,355,167.24	626,127.58	88.85	22347
MW 18A	1,354,625.12	626,140.39	87.56	22348
MW 18B	1,354,647.07	626,137.94	87.43	22349
MW 18C	1,354,641.08	626,135.29	87.42	22350
MW 19A	1,354,266.87	625,742.73	87.54	22351
MW 19B	1,354,265.15	625,736.86	87.64	22352
MW 19C	1,354,263.86	625,731.55	87.44	22353
MW 20A	1,354,108.05	625,217.83	87.12	22354
MW 20B	1,354,108.15	625,212.45	87.27	22355
MW 20C	1,354,108.43	625,207.24	87.35	22356
MW 21A	1,354,136.48	624,588.04	87.20	22357
MW 21B	1,354,136.28	624,582.61	87.23	22358
MW 21C	1,354,136.60	624,576.76	87.13	22359
MW 22A	1,354,163.02	623,961.73	87.71	22360
MW 22B	1,354,163.73	623,956.44	87.69	22361
MW 22C	1,354,164.04	623,950.53	87.55	22362
MW 23A	1,355,178.18	623,934.47	97.90	22363
MW 23B	1,355,183.57	623,934.08	97.91	22364
MW 23C	1,355,188.99	623,933.72	97.93	22365

TOP OF CONCRETE PAD AND OSCEOLA COUNTY BENCHMARKS				
Description	Northing	Easting	Elevation (TOC)	
BM PK-1 (MW-1 CLUSTER)	1,355,802.68	623,925.11	92.88	
BM PK-2 (MW-2 CLUSTER)	1,356,141.33	623,924.13	93.10	
BM PK-3 (MW-3 CLUSTER)	1,356,481.71	623,923.83	92.85	
BM BOLT-4 (MW-4 CLUSTER)	1,356,855.04	623,922.97	93.14	
BM PK-5 (MW-5 CLUSTER)	1,357,246.05	623,920.66	93.41	
BM PK-6 (MW-6 CLUSTER)	1,357,610.45	623,990.25	92.93	
BM PK-7 (MW-7 CLUSTER)	1,357,675.78	624,382.31	93.51	
BM PK-8 (MW-8 CLUSTER)	1,357,580.48	624,760.53	92.24	
BM PK-9 (MW-9 CLUSTER)	1,357,390.56	625,121.91	92.74	
BM PK-10 (MW-10 CLUSTER)	1,356,958.45	625,284.45	94.09	
BM PK-11 (MW-11 CLUSTER)	1,356,489.00	625,417.28	91.73	
BM PK-12 (MW-12 CLUSTER)	1,356,150.74	625,417.14	93.26	
BM PK-13 (MW-13 CLUSTER)	1,355,806.34	625,418.41	92.92	
O.C. 1406 (Osceola County Benchmark)	1,351,729.56	626,923.61	80.91	

PHASE I				
Description	Northing	Easting	Elevation (TOC)	Wacs ID
MW 1A	1,355,798.49	623,926.46	95.12	19900
MW 1B	1,355,802.59	623,926.20	95.00	19901
MW 1C	1,355,806.37	623,926.66	95.18	19902
MW 2A	1,356,145.78	623,925.58	95.21	19903
MW 2B	1,356,141.26	623,925.71	95.17	19904
MW 2C	1,356,137.51	623,925.87	95.32	19905
MW 3A	1,356,484.95	623,925.16	94.64	19906
MW 3B	1,356,481.57	623,925.19	94.68	19907
MW 3C	1,356,478.10	623,925.17	94.66	19908
MW 4A	1,356,851.54	623,924.06	95.48	19909
MW 4B	1,356,855.01	623,924.07	95.18	19910
MW 4C	1,356,858.61	623,924.22	95.39	19911
MW 5A	1,357,250.20	623,921.86	95.32	19912
MW 5B	1,357,245.88	623,922.02	95.30	19913
MW 5C	1,357,241.29	623,922.25	95.39	19914
MW 6A	1,357,611.54	623,994.19	94.72	19915
MW 6B	1,357,609.34	623,990.94	94.60	19916
MW 6C	1,357,607.07	623,987.86	94.58	19917
MW 7A	1,357,674.42	624,385.52	95.48	19918
MW 7B	1,357,674.51	624,382.31	95.27	19919
MW 7C	1,357,674.43	624,378.32	94.93	19920
MW 8A	1,357,580.31	624,756.36	94.67	19921
MW 8B	1,357,579.19	624,759.97	94.58	19922
MW 8C	1,357,577.70	624,764.25	94.50	19923
MW 9A	1,357,392.41	625,117.91	94.66	19924
MW 9B	1,357,389.45	625,121.09	94.63	19925
MW 9C	1,357,386.99	625,123.87	94.54	19926
MW 10A	1,356,961.53	625,281.78	96.25	19927
MW 10B	1,356,957.91	625,283.13	96.23	19928
MW 10C	1,356,954.76	625,284.09	96.36	19929
MW 11A	1,356,492.64	625,415.70	93.56	19930
MW 11B	1,356,489.00	625,415.84	93.59	19931
MW 11C	1,356,485.39	625,415.96	93.65	19932
MW 12A	1,356,153.77	625,415.64	95.10	19933
MW 12B	1,356,150.78	625,415.56	95.01	19934
MW 12C	1,356,147.27	625,415.63	95.10	19935
MW 13A	1,355,810.14	625,416.90	95.19	19936
MW 13B	1,355,806.36	625,417.25	95.12	19937
MW 13C	1,355,802.61	625,417.08	95.04	19938
MW 14A				MONITORING WELL ABANDONED 10 JULY 2007
MW 14B				MONITORING WELL ABANDONED 10 JULY 2007
MW 14C				MONITORING WELL ABANDONED 10 JULY 2007
MW 15A				MONITORING WELL ABANDONED 10 JULY 2007
MW 15B				MONITORING WELL ABANDONED 10 JULY 2007
MW 15C				MONITORING WELL ABANDONED 10 JULY 2007
SURFACE WATER MONITORING SITES				
Description	Northing	Easting	Elevation	Wacs ID
SW-3	1,356,138.00	623,814.00	-	19945
SW-4	1,352,974.10	631,682.40	-	19946

NORTH

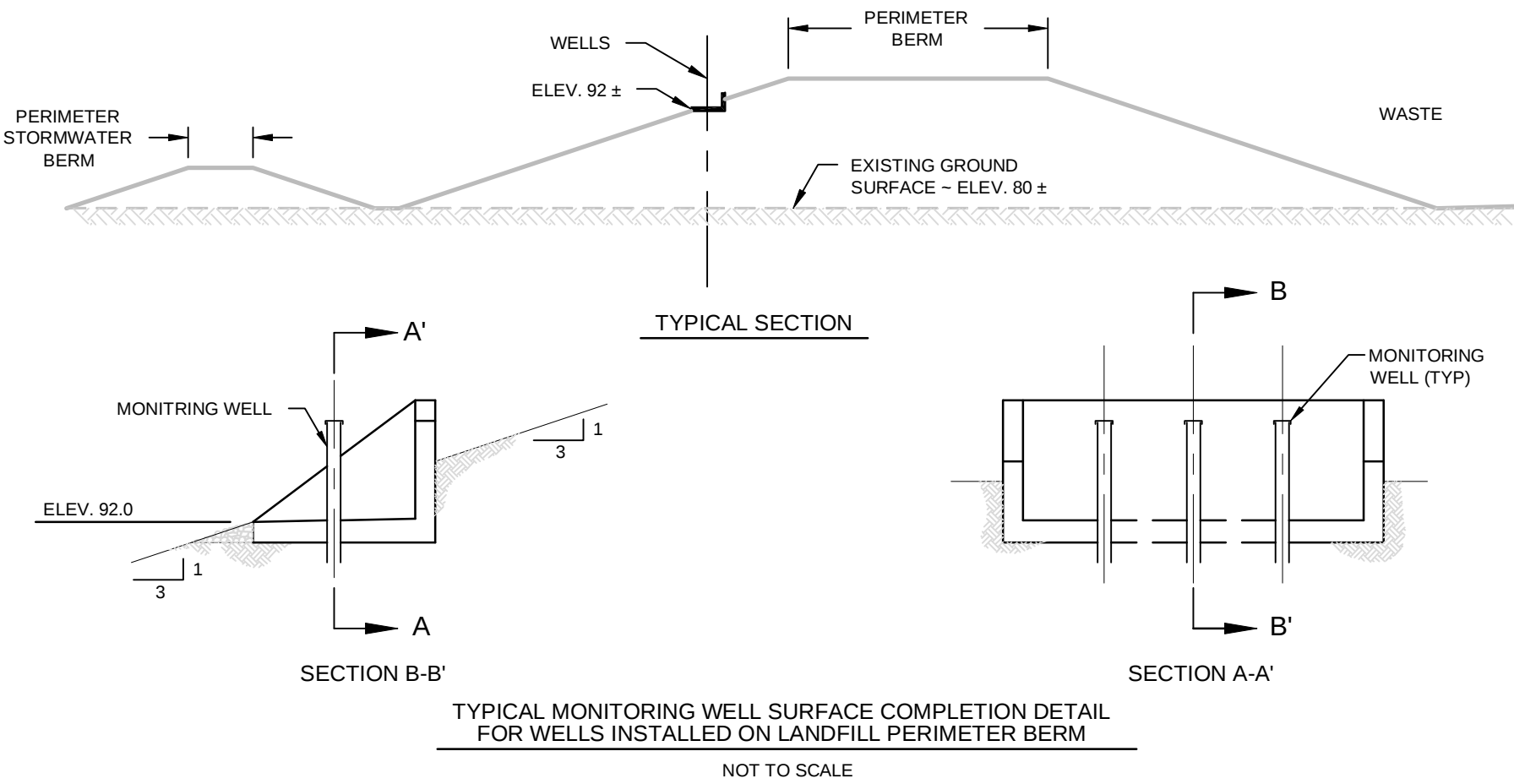
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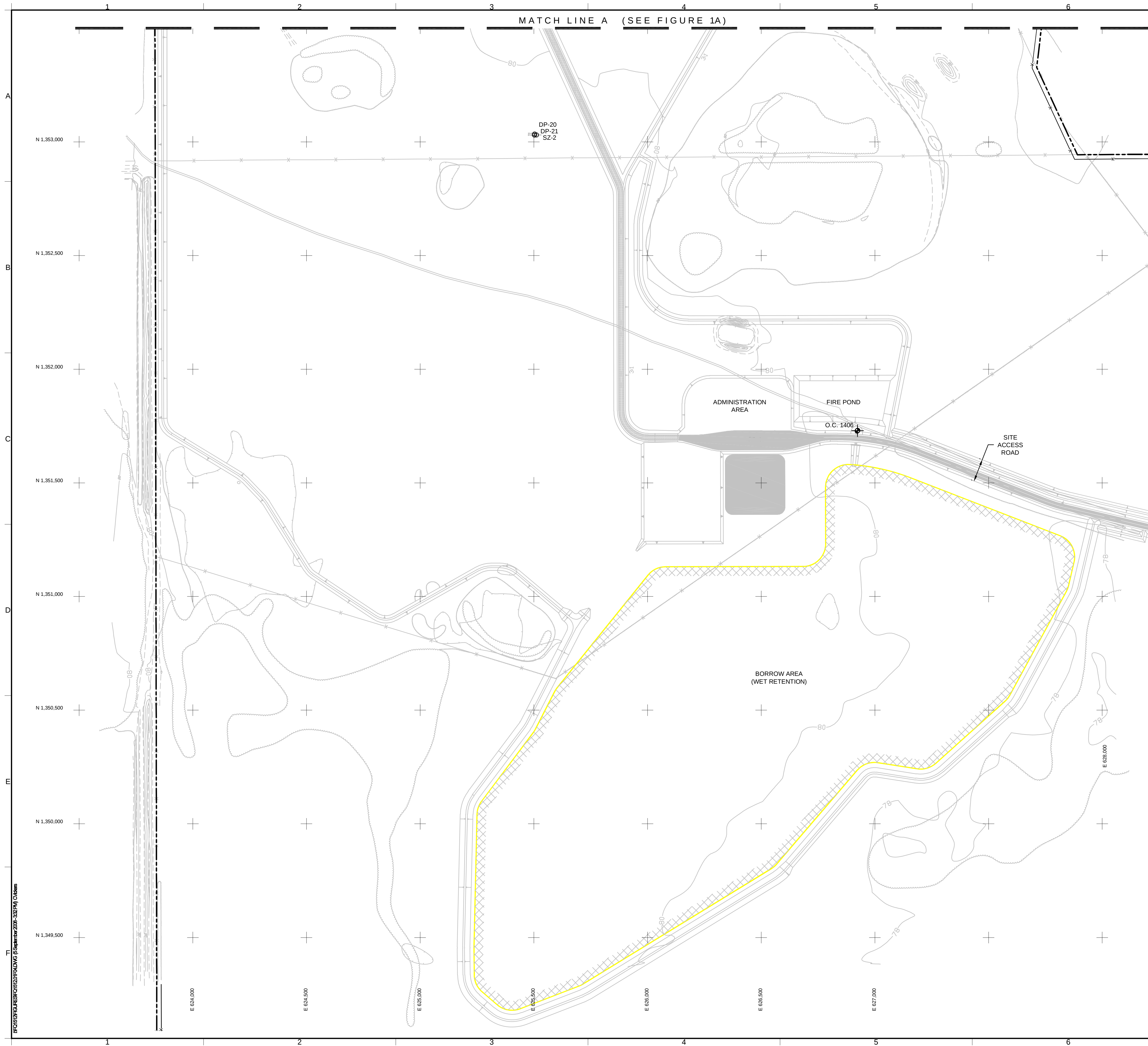
LEGEND

- PROPERTY BOUNDARY
- APPROXIMATE LOCATION OF INTERMITTENT STREAM
- EXISTING GROUND ELEVATION (FEET) (SEE NOTE 4)
- EXISTING FENCE
- WETLAND BOUNDARY BY PHOTO INTERPRETATION BY BRA
- WETLAND BOUNDARY PER BRA FLAGGING AND SURVEY BY JOHNSTON SURVEYING INC.
- STORMWATER MANAGEMENT POND
- BORROW AREA BOUNDARY
- PROPOSED FENCE
- PIEZOMETER / MONITORING WELL LOCATION
- PIEZOMETER / MONITORING WELL LOCATION (REMOVED)
- SHELL ZONE WELL LOCATION
- GROUNDWATER MONITORING WELL TOP OF CONCRETE PAD BENCHMARK
- EXISTING GROUNDWATER MONITORING WELL CLUSTER
- GROUNDWATER MONITORING WELL CLUSTER INSTALLED

- NOTES:
- NORTHING AND EASTING COORDINATES SHOWN REPRESENT FLORIDA STATE PLANE EAST ZONE NORTH AMERICAN DATUM OF 1983 (NAD83).
 - THE ELEVATIONS SHOWN REPRESENT NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD29)(FEET).
 - PROPOSED GRADING IS SHOWN IN THE BACKGROUND TO ILLUSTRATE MONITORING WELL LOCATIONS RELATIVE TO LANDFILL.

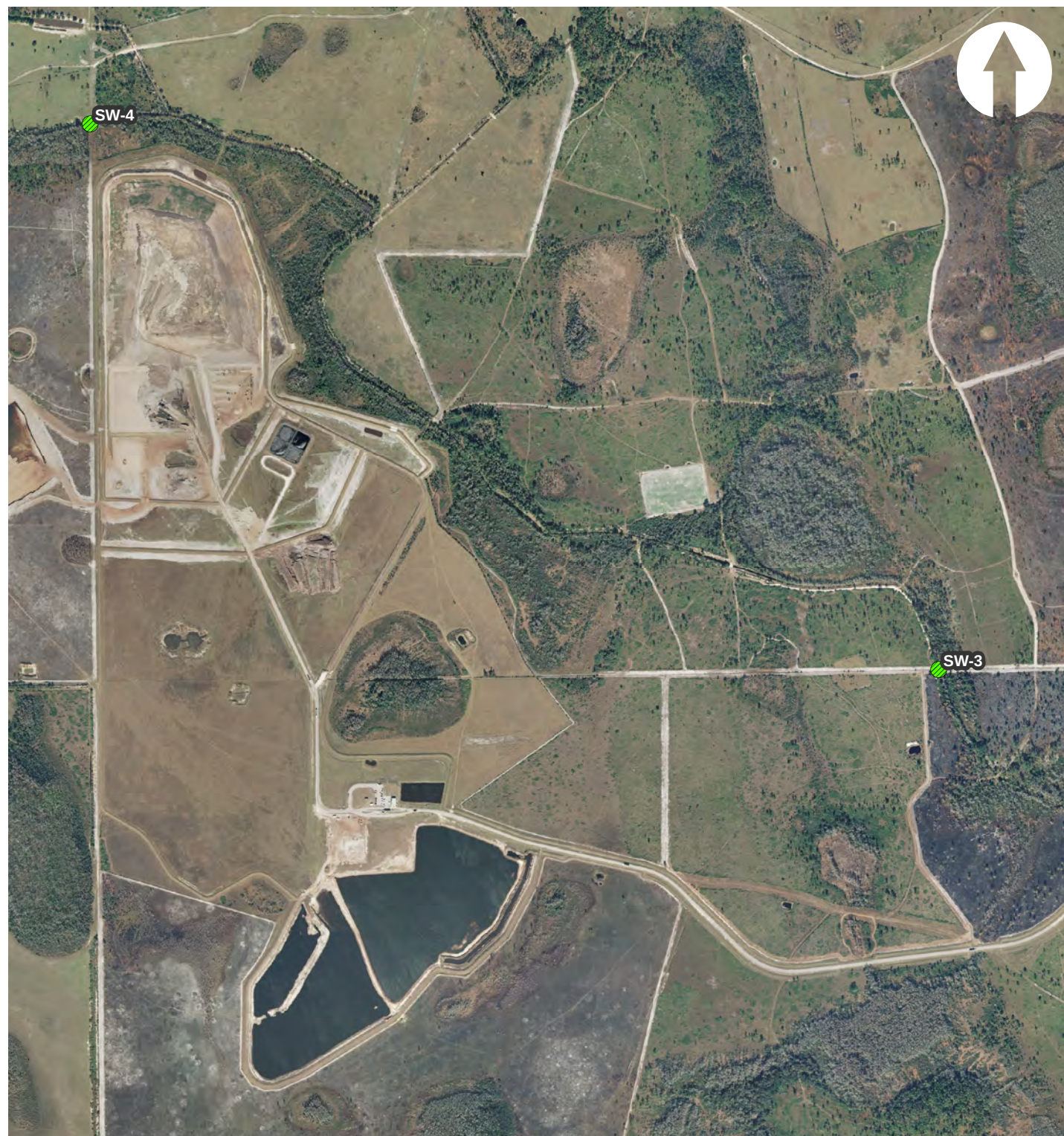


REV	DATE	DESCRIPTION	DRN	APP
14055 RIVEREDGE DRIVE, SUITE 300 TAMPA, FLORIDA 33637 USA PH: 813.558.0990 - FX: 813.558.9726 AUTHORIZATION NUMBER 4321 1501 OMNI WAY ST. CLOUD, FLORIDA 34773 PH: 407.841.3720 - FX: 407.841.3730				
TITLE: GROUNDWATER MONITORING NETWORK				
PROJECT: SECOND BIENNIAL TECHNICAL REPORT ON WATER QUALITY				
SITE: J.E.D. SOLID WASTE DISPOSAL FACILITY				
DESIGN BY: AG		DATE: SEPTEMBER 2008		
DRAWN BY: JWO		PROJECT NO.: FQ1512		
CHECKED BY: JE		FILE: FQ1512.01F04		
REVIEWED BY: KEW		FIGURE NO.: 2-1A		
APPROVED BY: DS				
SIGNATURE				
DATE				
DON STRICKLAND - LICENSE NO. 1565				



REV	DATE	DESCRIPTION	DRN	APP
Geosyntec[®] consultants 14055 RIVEREDGE DRIVE, SUITE 300 TAMPA, FLORIDA 33637 USA PH: 813.558.0990 - FX: 813.558.9726 AUTHORIZATION NUMBER 4321 WSI 1501 OMNI WAY ST. CLOUD, FLORIDA 34773 PH: 407.841.3720 - FX: 407.841.3730				
TITLE: GROUNDWATER MONITORING NETWORK				
PROJECT: SECOND BIENNIAL TECHNICAL REPORT ON WATER QUALITY				
SITE: J.E.D. SOLID WASTE DISPOSAL FACILITY				
SIGNATURE		DESIGN BY: AG	DATE: SEPTEMBER 2008	
DATE		DRAWN BY: JWO	PROJECT NO.: FQ1512	
		CHECKED BY: JE	FILE: FQ1512.01F04	
		REVIEWED BY: KEW	FIGURE NO.: 2-1B	
DON STRICKLAND - LICENSE NO. 1565		APPROVED BY: DS		

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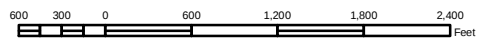


Legend

- Monitor Water Monitoring Location

NOTES:

AERIAL PHOTOGRAPH
ACQUIRED FROM LABINS
(2009).



BIENNIAL WATER QUALITY MONITORING REPORT 2010 SURFACE WATER QUALITY MONITORING POINTS

WASTE SERVICES OF FLORIDA, INC.
J.E.D. SOLID WASTE
1501 OMNI WAY
ST. CLOUD, FLORIDA



ENVIRONMENTAL PLANNING SPECIALISTS, INC.
ENVIRONMENTAL CONSULTANTS

FIGURE
2-1C

TAMPA, FL

NOVEMBER 2010

3. WATER QUALITY MONITORING

3.1 Groundwater Sampling

3.1.1 Sampling Locations and Procedures

All forty five (45) monitoring wells installed as part of the Phase 1 monitoring plan were sampled during the first through sixth semi-annual monitoring events. During the seventh, eighth, and ninth monitoring events, fifty-seven (57) monitoring wells installed as part of the Phase 1 development (all except monitoring well clusters MW-1 and MW-6) and all twenty-four (24) monitoring wells installed as part of the Phase 2 and 3 development were sampled. Starting with the tenth semi-annual monitoring event, twenty-six (26) of the Phase 1 development area wells and seven (7) of the Phase 2 and 3 development area wells were sampled (total of 33 wells) in accordance with the current MPIS. Low-flow sampling techniques were used for groundwater sample collection. Except for the turbidity considerations as described in Section 6.2.14, all groundwater sampling was performed in accordance with the current applicable FDEP Standard Operating Procedures (SOP's, December 2008) for groundwater sampling. Additionally for quality control (QC) purposes, sample duplicates and equipment blanks were collected and analyzed for each event.

In general, peristaltic pumps were used to purge and sample the majority of the A-zone (shallow), some of B-zone (intermediate), and some of the C-zone (deep) groundwater monitoring wells. A stainless steel submersible pump was used to purge and sample the remainder of the wells, primarily the B-zone (intermediate) and C-zone (deep) groundwater wells. New tubing (silicone and/or polyethylene) was used at each monitoring well.

During the purging process, a multi-parameter water quality meter with flow-through cell was used to monitor the following field parameters: pH; temperature; specific conductance; oxidation-reduction potential (ORP); and dissolved oxygen. Turbidity levels were measured using a separate turbidity meter. Field parameters were recorded on sample collection forms. When the field parameters stabilized within the acceptable tolerances required by the FDEP SOP, well purging was considered complete and groundwater samples were collected. For wells where the turbidity was not less than 20 NTU, turbidity stability was established by purging at least 5 well volumes and observing variations in the turbidity measurements. For these wells, once the turbidity had stabilized and all other parameters conformed to the guidance set forth in the FDEP SOP's, samples were collected. A non-filtered and field-filtered (1-micron) metals

sample was collected for each monitoring well where turbidity measurements exceeded the 20 NTU level.

For monitoring wells where peristaltic pumps were used, volatile organic compound (VOC) sample vials were filled by removing the down well sample tubing, disconnecting the tubing from the water quality meter flow through cell, and reversing the flow direction on the peristaltic pump. For the monitoring wells that were purged and sampled with a submersible pump, all sample aliquots were filled directly from the down-well tubing.

The calibration of the water quality monitoring instruments was checked on a daily basis, and re-calibrated as necessary. Samples were placed in coolers and packed with bagged ice for transport to the analytical laboratory. Chain-of-Custody forms were completed and accompanied the samples to the analytical laboratory. Trip blank samples accompanied all sample coolers with VOC samples. Temperature blanks were packed in each sample cooler. Security seals were affixed to every cooler shipped.

3.1.2 Sample Analyses

Four different analytical laboratories were used for the water quality monitoring events included in this report. Environmental Conservation Laboratories, Inc (ENCO), Orlando, Florida performed the laboratory analyses for the initial (baseline) event for Phase 1 development. Severn Trent Laboratories (STL), Tampa, Florida performed the laboratory analyses for the first and second semi-annual events. Accutest Laboratories Southeast Inc., (Accutest) Orlando, Florida performed the laboratory analyses for the third semi-annual event. Columbia Analytical Services, Inc. (CAS) Jacksonville, Florida has performed the laboratory analyses for all other monitoring events since the fourth semi-annual event. All laboratory analyses were performed in accordance with the National Environmental Laboratory Accreditation Conference (NELAC) standards. Each laboratory holds certification from the Florida Department of Health (FDOH) for the analytical test methods used for this project and are all certified in the State of Florida for analysis of environmental samples.

For the initial background (baseline) monitoring events for Phase 1, and Phases 2 and 3, groundwater samples were analyzed for total ammonia as nitrogen (N), chlorides, nitrate, total dissolved solids (TDS), iron, mercury, sodium, and the 40 CFR, Part 258 Appendix I and Appendix II parameters. The same analyses were performed for each of the semi-annual monitoring events, with the exception of the Appendix II parameters, which are not required after the baseline event. Other required parameters (i.e., pH; temperature;

specific conductance; turbidity; ORP; and dissolved oxygen) were field measured during collection of the groundwater samples during each monitoring event.

Utilizing four different laboratories created disparities with relation to the practical quantitative limit (PQL) for each constituent analyzed. A review of the tables contained in Section 5 shows that each laboratory was able to achieve different PQLs for the constituents analyzed.

3.2 Surface Water Sampling

3.2.1 Sampling Locations and Procedures

Two (2) surface water sampling locations established during the initial hydrogeological investigation were selected by FDEP for routine water quality monitoring. As stated in the Permit, surface water samples are only to be collected when there is flow in Bull Creek. The latitude and longitude of the two surface water monitoring locations (SW-3 and SW-4) is included in Table 3-1, and the locations are shown in Figure 2-1C.

Collection of surface water samples commenced at the downstream monitoring location (SW-3) followed by the upstream monitoring location (SW-4). Bull Creek was visually observed to be flowing at the time of each sampling event except during the eleventh semi-annual event in November 2009. Since no flow was observed in Bull Creek at either of the two monitoring locations, no surface water samples were collected during the eleventh monitoring event. Surface water samples were collected from the approximate center of Bull Creek. A multi-parameter water quality meter was used to measure field parameters including temperature, pH, dissolved oxygen, specific conductance, and ORP at each sampling location. Turbidity levels were measured using a separate turbidity meter. Surface water samples were collected in accordance with the applicable FDEP surface water sampling SOP's.

3.2.2 Sample Analyses

Surface water samples were analyzed by the same laboratories as described in Section 3.1.2. For the initial background (baseline) and all semi-annual monitoring events, surface water samples were analyzed for unionized ammonia, total hardness as CaCO_3 , total organic carbon, chloride, nitrate, total dissolved solids (TDS), total suspended solids (TSS), biological oxygen demand (BOD), chemical oxygen demand (COD), total nitrogen as N, nitrate as N, total phosphates as P, chlorophyll-A, iron, mercury, fecal coliform, and the 40 CFR, Part 258 Appendix I parameters. It is noted that the fecal

coliform test was not required by FDEP until the seventh semi-annual monitoring event (November 2007). Other required parameters (pH; temperature; specific conductance; turbidity; ORP; and dissolved oxygen) were measured in the field during collection of the surface water samples.

3.3 Leachate Sampling

3.3.1 Sampling Locations and Procedures

In accordance with the Permit requirements, a leachate sample is to be collected from each active disposal cell on an annual basis. To date, Cells 1 through 7 have been constructed. Cells 1 through 6 have received waste. Currently, Cell 7 has been certified, but placement of waste has not commenced. A leachate sample was collected from Cell 1 for year 2004 as part of the first semi-annual water quality monitoring event performed in July 2004. A leachate sample was collected from Cell 1 for year 2005 as part of the third semi-annual water quality monitoring event performed in July 2005. Leachate samples from Cells 1, 2, and 4 were collected for year 2006 as part of the fifth semi-annual sampling event performed in July 2006. Leachate from Cells 1-4 were collected for year 2007 as part of the fifth semi-annual sampling event performed in November 2007. Leachate from Cells 1-5 were collected for year 2008 as part of the ninth semi-annual sampling event performed in November 2008. Leachate from Cells 1-6 were collected for year 2009 as part of the eleventh semi-annual sampling event performed in November 2009. It should be noted that a leachate sample was collected from each cell that had been constructed and had received waste at the time of sampling to satisfy the annual leachate sample requirement. The latitude and longitude of the leachate monitoring sites (L-1 through L-6) is included in Table 3-2 and the locations are shown on Figure 2-1A.

The leachate samples were collected from a sampling port on the primary leachate sump piping using the dedicated leachate sump pump. A multi-parameter water quality meter was used to measure field parameters including: temperature; pH; dissolved oxygen; specific conductance; and ORP. A separate meter was used to measure turbidity. The leachate samples were collected in accordance with the applicable FDEP SOPs.

3.3.2 Sample Analyses

Leachate samples were analyzed by the same laboratories as described in Section 3.1.2. The laboratory analyses for leachate samples collected from each disposal cell were performed in accordance with the NELAC standards for total ammonia-N, bicarbonate, chlorides, nitrate, total dissolved solids (TDS), iron, mercury, sodium and the 40 CFR,

Part 258 Appendix II parameters. Other required parameters (i.e., pH; temperature; specific conductance; turbidity; ORP; and dissolved oxygen) were field measured during collection of the leachate samples.

Table 3-1
Surface Water Monitoring Geographic Locations
Third Biennial Technical Report on Water Quality
J.E.D. Solid Waste Management Facility

Surface Water Monitoring Location	WACS ID	Latitude (NAD 1983)	Longitude (NAD 1983)
SW - 3	19945	28 03 20.63973	81 04 33.16311
SW - 4	19946	28 04 11.71727	81 06 01.16679

Table 3-2
Leachate Sampling Sites Geographic Locations
Third Biennial Technical Report on Water Quality
J.E.D. Solid Waste Management Facility

Leachate Sampling Site Location	WACS ID	Latitude (NAD 1983)	Longitude (NAD 1983)
L - 1	19947	28 04 06.29227	81 05 40.08305
L - 2	19948	28 04 04.14722	81 05 46.75141
L - 3	19949	28 03 55.34894	81 05 43.54716
L - 4	19950	28 03 55.33060	81 05 59.59289
L - 5	22369	28 03 48.63809	81 05 59.56476
L - 6	22370	28 03 47.07045	81 05 43.48708

4. FIELD-MEASURED PARAMETERS

4.1 Overview

As discussed previously in Section 3 of this report, field parameters including: pH; turbidity; specific conductance; temperature; ORP; and dissolved oxygen were measured and recorded for each water quality (groundwater, surface water, and leachate) sample collected during the various monitoring events.

4.2 Groundwater

A summary of the final field-measured parameters for groundwater for all twelve monitoring events is presented in Tables 4-1 through 4-5. Field-measured parameters exceeding or not within the acceptable levels of the secondary drinking water standard (SDWS) for that parameter have been highlighted in orange. The two field-measured parameters with SDWS criteria are pH (between 6.5 and 8.5 standard units) and turbidity (< 20 NTU). The field-measured parameters exceeding the SDWS are discussed in Section 6 of this report.

4.3 Surface Water

A summary of the field-measured parameters collected at the two surface water locations during the twelve monitoring events are presented in Table 4-6. Field-measured parameters exceeding or not within the acceptable levels of the Class III surface water standards for that parameter have been highlighted in orange. Table 4-6 also includes the Class III standard criteria for each field measured parameter. The field-measured parameters exceeding the Class III surface water standards are discussed in Section 6 of this report.

4.4 Leachate

A summary of the field-measured parameters for leachate samples collected on an annual basis is presented in Table 4-7. There are no regulatory requirements for field measured parameters for the leachate samples.

Table 4-1

Groundwater Field Measured Parameter - pH

Third Biennial Technical Report on Water Quality

J.E.D. Solid Waste Management Facility

Well ID	Type	PH 1 Baseline Jan-04 (pH)	1st Event Jul-04 (pH)	2nd Event Jan-05 (pH)	3rd Event Jul-05 (pH)	4th Event Feb-06 (pH)	5th Event Jul-06 (pH)	6th Event Feb-07 (pH)	PH 2&3 Baseline Sep-07 (pH)	7th Event Nov-07 (pH)	8th Event May-08 (pH)	9th Event Nov-08 (pH)	10th Event May-09 (pH)	11th Event Nov-09 (pH)	12th Event May-10 (pH)	
MW-1A	B	5.01	3.51	4.95	5.03	5.03	4.68	4.67	MW-1A through MW-15A are monitoring wells constructed as part of the Phase 1 development	NA	NA	NA	4.73	4.5	4.63	
MW-2A	B	4.68	2.69	4.60	4.82	4.82	4.72	4.80		4.77	4.94	5.31	4.82	4.5	4.65	
MW-3A	B	5.83	3.79	5.05	5.32	5.32	4.91	4.85		4.48	5.01	4.81	4.93	4.8	5.01	
MW-4A	B	4.61	4.87	5.07	5.08	5.08	5.02	4.62		4.75	5.12	5.06	4.53	4.7	4.59	
MW-5A	B	4.55	4.40	4.55	4.71	4.71	4.45	4.43		4.19	4.49	4.86	4.42	4.5	4.39	
MW-6A	B	5.43	5.07	5.07	5.06	5.06	4.92	4.51		NA	NA	NA	4.99	4.7	4.87	
MW-7A	D	5.51	4.78	5.29	4.78	4.78	4.68	4.59		4.36	5.03	4.92	5.31	4.8	4.60	
MW-8A	D	5.71	4.71	4.95	4.75	4.75	4.76	4.45		4.16	4.82	4.35	4.94	4.3	4.20	
MW-9A	D	5.77	3.59	4.86	4.92	4.92	4.51	4.68		4.29	4.64	4.74	4.80	4.8	4.86	
MW-10A	D	5.60	4.66	4.95	4.95	4.95	4.69	4.57		4.40	4.33	4.53	5.22	4.6	4.67	
MW-11A	D	5.42	4.58	5.48	5.44	5.44	5.61	5.05		5.20	6.30	4.91	5.55	5.1	4.86	
MW-12A	D	4.55	4.32	4.61	4.44	4.44	4.37	4.18		4.54	6.16	4.35	5.37	4.2	4.36	
MW-13A	D	6.18	4.79	5.17	5.36	5.36	5.31	5.07		5.10	5.46	4.77	5.34	5.1	5.01	
MW-14A	D	5.24	4.24	5.03	5.12	5.12	5.06	5.01		NA	NA	NA	NA	NA	NA	
MW-15A	D	5.55	4.27	5.15	4.96	4.96	4.79	4.74		NA	NA	NA	NA	NA	NA	
MW-16A	D	MW- 16A through MW-23A were constructed as part of the Phases 2 and 3 development in Sep 2007							5.56	4.81	5.13	5.15	5.45	4.9	4.67	
MW-17A	D								5.04	4.77	5.00	4.23	NA	NA	NA	
MW-18A	D								5.06	4.84	4.55	4.72	NA	NA	NA	
MW-19A	D								5.27	4.71	5.61	5.23	5.85	5.4	5.81	
MW-20A	D								4.71	4.97	4.84	4.91	NA	NA	NA	
MW-21A	D								5.25	4.43	4.87	4.14	NA	NA	NA	
MW-22A	B								5.15	4.66	4.72	4.34	NA	NA	NA	
MW-23A	B								5.50	5.29	4.93	4.91	4.41	4.6	5.04	
MW-1B	B	4.83	5.01	4.74	4.79	4.79	4.85	4.69	MW-1A through MW-15A are monitoring wells constructed as part of the Phase 1 development	NA	NA	NA	5.00	NA	4.61	
MW-2B	B	4.93	4.73	4.41	4.88	4.88	4.79	4.48		4.60	4.43	4.45	4.92	NA	NA	4.60
MW-3B	B	5.24	5.05	4.93	5.16	5.16	4.99	4.56		4.70	5.46	5.12	4.76	NA	NA	4.81
MW-4B	B	4.52	4.69	4.70	4.93	4.93	4.76	4.76		4.81	4.41	3.47	4.32	NA	NA	4.15
MW-5B	B	4.10	4.53	4.43	4.64	4.64	4.49	4.07		4.13	4.51	4.69	4.70	NA	NA	4.31
MW-6B	B	5.49	5.27	5.12	5.10	5.10	5.00	4.53		NA	NA	NA	5.13	NA	NA	4.85
MW-7B	D	5.10	5.23	5.12	5.04	5.04	4.80	4.88		4.50	4.63	4.94	5.03	NA	NA	4.66
MW-8B	D	4.97	3.34	5.02	5.10	5.10	4.68	4.97		4.63	4.78	4.64	5.30	NA	NA	4.95
MW-9B	D	5.15	4.91	5.05	5.10	5.10	4.87	5.02		4.82	4.70	4.59	5.01	NA	NA	4.73
MW-10B	D	5.05	4.56	4.67	4.96	4.96	4.70	5.14		5.57	5.09	4.82	5.14	NA	NA	4.19
MW-11B	D	5.49	5.47	5.13	5.09	5.09	5.02	4.65		4.82	6.01	5.02	5.21	NA	NA	4.94
MW-12B	D	5.25	5.29	5.23	5.19	5.19	5.42	4.69		4.46	5.76	4.59	5.02	NA	NA	4.82
MW-13B	D	5.34	4.69	4.80	5.00	5.00	4.62	4.61		4.70	5.38	4.86	4.98	NA	NA	4.80
MW-14B	D	4.73	4.77	4.58	5.04	5.04	5.22	4.87		NA	NA	NA	NA	NA	NA	NA
MW-15B	D	4.38	3.21	4.86	4.94	4.94	4.44	4.50		NA	NA	NA	NA	NA	NA	NA
MW-16B	D	MW- 16B through MW-23B were constructed as part of the Phases 2 and 3 development in Sep 2007							4.83	5.06	5.03	4.96	5.16	4.8	4.78	
MW-17B	D								4.99	5.07	5.02	4.93	NA	NA	NA	
MW-18B	D								5.02	4.94	4.96	4.51	NA	NA	NA	
MW-19B	D								4.67	4.96	4.77	4.72	5.14	NA	4.80	
MW-20B	D								4.97	5.09	5.11	5.02	NA	NA	NA	
MW-21B	D								4.85	5.04	4.96	5.10	NA	NA	NA	
MW-22B	B								4.88	5.02	4.60	5.26	NA	NA	NA	
MW-23B	B								4.54	4.76	4.36	4.72	4.69	NA	4.56	
MW-1C	B	4.86	5.20	5.33	5.41	5.41	5.24	5.11	MW-1A through MW-15A are monitoring wells constructed as part of the Phase 1 development	NA	NA	NA	NA	4.9	NA	
MW-2C	B	4.85	5.05	4.94	5.21	5.21	5.05	4.94		5.32	4.87	5.30	NA	NA	4.8	NA
MW-3C	B	5.09	5.23	4.97	5.31	5.31	5.25	5.13		5.03	5.54	5.57	NA	NA	4.7	NA
MW-4C	B	5.52	5.56	5.44	5.61	5.61	5.54	5.20		5.92	6.09	5.33	NA	NA	5.3	NA
MW-5C	B	5.37	5.04	4.81	5.13	5.13	5.01	4.65		4.83	5.22	4.91	NA	NA	5.1	NA
MW-6C	B	4.60	4.90	4.93	5.02	5.02	4.88	4.88		NA	NA	NA	NA	NA	4.8	NA
MW-7C	D	5.92	5.29	5.19	5.19	5.19	5.13	5.14		4.92	5.53	4.98	NA	NA	5.1	NA
MW-8C	D	5.44	4.90	4.68	5.05	5.05	4.80	4.55		4.64	4.66	4.66	NA	NA	4.8	NA
MW-9C	D	5.15	4.96	4.79	5.05	5.05	4.78	4.99		5.02	5.33	5.52	NA	NA	5.9	NA
MW-10C	D	4.84	4.84	5.06	5.15	5.15	5.04	4.72		4.99	4.51	4.73	NA	NA	4.7	NA
MW-11C	D	5.79	5.26	5.42	5.51	5.51	5.79	4.98		5.08	5.53	5.46	NA	NA	5.2	NA
MW-12C	D	4.70	4.71	4.83	5.01	5.01	5.32	4.55		4.23	5.13	4.51	NA	NA	4.8	NA
MW-13C	D	5.07	4.72	4.84	5.02	5.02	4.87	4.66		6.03	5.18	4.97	NA	NA	4.7	NA
MW-14C	D	5.24	5.35	5.34	5.20	5.20	5.68	5.11		NA	NA	NA	NA	NA	NA	NA
MW-15C	D	5.56	5.37	5.12	5.42	5.42	5.29	5.45		NA	NA	NA	NA	NA	NA	NA
MW-16C	D	MW- 16C through MW-23C were constructed as part of the Phases 2 and 3 development in Sep 2007							5.01	5.15	5.04	5.11	5.23	5.0	4.89	
MW-17C	D								5.35	5.45	5.31	5.33	NA	NA	NA	
MW-18C	D								5.34	5.80	5.36	5.21	NA	NA	NA	
MW-19C	D								5.30	5.25	5.21	5.15	NA	5.3	NA	
MW-20C	D								5.14	5.22	5.10	5.19	NA	NA	NA	
MW-21C	D								5.20	5.10	5.33	5.42	NA	NA	NA	
MW-22C	B								6.84	6.68	6.82	6.99	NA	NA	NA	
MW-23C	B								5.54	5.83	5.37	5.78	NA	5.1	NA	

Notes:

NA = Not Analyzed

Well type: (B) Background well (D) Detection well

MW-14A, 14B, 14C and MW-15A, 15B, 15C were decommissioned on 10 July 2007

MW-1A, 1B, 1C and MW-6A, 6B, 6C were converted to piezometers starting from the 7th event.

Table 4-2
Groundwater Field Measured Parameter - Temperature
Third Biennial Technical Report on Water Quality
J.E.D. Solid Waste Management Facility

Well ID	Type	PH 1 Baseline Jan-04 (°C)	1st Event Jul-04 (°C)	2nd Event Jan-05 (°C)	3rd Event Jul-05 (°C)	4th Event Feb-06 (°C)	5th Event Jul-06 (°C)	6th Event Feb-07 (°C)	PH 2&3 Baseline Sep-07 (°C)	7th Event Nov-07 (°C)	8th Event May-08 (°C)	9th Event Nov-08 (°C)	10th Event May-09 (°C)	11th Event Nov-09 (°C)	12th Event May-10 (°C)
MW-1A	B	16.90	26.17	23.11	23.32	23.32	24.70	21.87	MW-1A through MW-15A are monitoring wells constructed as part of the Phase 1 development	NA	NA	NA	25.57	26.9	25.48
MW-2A	B	18.10	27.57	23.24	21.55	21.55	23.66	21.08		25.79	23.96	26.30	25.25	28.1	24.13
MW-3A	B	23.17	26.63	23.35	22.95	22.95	24.83	25.12		26.32	26.64	26.05	24.92	27.1	25.57
MW-4A	B	23.28	25.18	23.61	22.86	22.86	24.48	24.17		26.62	24.36	24.12	23.84	26.8	23.33
MW-5A	B	22.62	26.12	23.43	22.09	22.09	25.20	23.35		27.00	23.89	25.92	26.38	26.6	23.45
MW-6A	B	24.10	30.90	23.10	23.26	23.26	24.80	22.38		NA	NA	NA	24.92	26.7	23.99
MW-7A	D	23.81	29.41	22.85	22.43	22.43	23.92	22.90		24.90	24.02	24.29	24.45	25.7	24.67
MW-8A	D	23.89	29.40	23.32	22.66	22.66	25.34	22.92		25.36	25.79	24.71	25.47	25.5	24.77
MW-9A	D	23.19	29.17	23.08	22.01	22.01	25.70	23.47		27.53	26.26	25.17	25.79	28.4	25.01
MW-10A	D	23.43	27.74	23.68	22.82	22.82	25.29	21.47		26.69	24.82	24.90	26.29	27.3	25.55
MW-11A	D	24.12	26.93	23.28	23.47	23.47	25.52	22.56		27.10	27.60	26.06	26.43	28.7	25.89
MW-12A	D	23.51	28.70	23.47	24.11	24.11	24.84	22.70		26.13	25.98	24.75	24.60	27.2	23.44
MW-13A	D	22.62	27.32	24.11	23.42	23.42	24.64	21.83		25.07	24.49	24.77	23.72	26.6	24.70
MW-14A	D	24.01	27.00	22.10	21.93	21.93	25.89	23.33		NA	NA	NA	NA	NA	NA
MW-15A	D	19.20	28.30	23.02	22.22	22.22	24.92	23.80		NA	NA	NA	NA	NA	NA
MW-16A	D	MW- 16A through MW-23A were constructed as part of the Phases 2 and 3 development in Sep 2007							27.69	26.11	25.99	26.11	23.00	27.4	24.56
MW-17A	D								27.37	25.78	25.26	25.25	NA	NA	NA
MW-18A	D								27.30	24.53	24.14	24.58	NA	NA	NA
MW-19A	D								33.32	28.58	28.82	27.38	26.10	27.5	23.48
MW-20A	D								27.44	26.01	25.07	24.98	NA	NA	NA
MW-21A	D								26.89	25.90	23.87	25.50	NA	NA	NA
MW-22A	B								27.10	26.31	25.11	25.38	NA	NA	NA
MW-23A	B								26.02	27.58	26.96	23.55	30.42	26.5	23.13
MW-1B	B	23.04	23.70	24.02	24.55	24.55	24.65	22.80	MW-1A through MW-15A are monitoring wells constructed as part of the Phase 1 development	NA	NA	NA	24.81	NA	25.51
MW-2B	B	22.81	23.61	24.09	23.92	23.92	25.27	23.99		24.52	23.85	24.06	24.30	NA	24.41
MW-3B	B	23.06	23.80	24.29	24.13	24.13	24.72	25.05		25.03	25.17	25.31	24.90	NA	25.45
MW-4B	B	23.01	24.11	24.49	24.40	24.40	25.50	24.06		25.65	24.86	23.85	24.36	NA	24.39
MW-5B	B	23.83	24.22	24.69	23.32	23.32	24.39	23.64		25.72	24.22	24.65	25.50	NA	24.60
MW-6B	B	23.32	24.76	24.13	24.94	24.94	25.03	24.37		NA	NA	NA	24.43	NA	24.58
MW-7B	D	22.22	23.87	24.18	24.34	24.34	24.38	24.42		23.91	24.25	24.05	24.30	NA	24.29
MW-8B	D	22.64	24.25	24.50	24.74	24.74	25.20	24.64		24.03	24.35	24.04	24.93	NA	24.89
MW-9B	D	23.93	24.19	24.77	24.56	24.56	25.59	24.90		24.99	24.98	24.83	25.41	NA	25.50
MW-10B	D	24.24	23.95	24.55	23.42	23.42	24.31	21.92		24.73	24.65	24.79	25.06	NA	25.92
MW-11B	D	22.73	23.70	24.11	24.80	24.80	25.43	23.06		25.33	24.59	25.00	25.23	NA	25.35
MW-12B	D	23.94	24.05	24.39	24.58	24.58	25.02	24.67		24.95	24.39	24.31	24.66	NA	24.35
MW-13B	D	23.98	23.68	24.19	25.00	25.00	24.81	24.32		24.69	24.37	24.25	24.19	NA	24.80
MW-14B	D	23.73	23.73	24.33	23.29	23.29	24.65	23.76		NA	NA	NA	NA	NA	NA
MW-15B	D	17.60	23.83	24.10	23.26	23.26	24.58	24.00		NA	NA	NA	NA	NA	NA
MW-16B	D	MW- 16B through MW-23B were constructed as part of the Phases 2 and 3 development in Sep 2007							24.52	25.17	24.27	24.80	23.56	24.8	23.73
MW-17B	D								24.86	24.45	23.95	24.09	NA	NA	NA
MW-18B	D								24.20	24.45	23.37	23.82	NA	NA	NA
MW-19B	D								33.81	32.50	29.39	28.08	26.49	NA	24.47
MW-20B	D								24.22	24.24	23.63	24.49	NA	NA	NA
MW-21B	D								24.35	24.56	23.74	24.46	NA	NA	NA
MW-22B	B								24.32	24.32	23.63	24.79	NA	NA	NA
MW-23B	B								25.48	25.46	24.58	24.41	24.87	NA	24.32
MW-1C	B	23.49	23.89	24.13	24.21	24.21	24.56	24.11	MW-1A through MW-15A are monitoring wells constructed as part of the Phase 1 development	NA	NA	NA	NA	23.9	NA
MW-2C	B	22.83	23.88	24.05	23.99	23.99	24.28	22.15		24.02	24.40	24.88	NA	26.2	NA
MW-3C	B	22.62	23.96	23.90	23.26	23.26	24.40	24.22		24.66	27.02	25.27	NA	26.2	NA
MW-4C	B	23.37	24.53	24.37	24.26	24.26	25.02	24.42		24.17	24.45	23.74	NA	24.5	NA
MW-5C	B	22.95	24.34	24.41	23.09	23.09	24.48	23.71		25.68	24.00	24.25	NA	24.9	NA
MW-6C	B	23.01	23.99	24.01	23.43	23.43	24.40	22.58		NA	NA	NA	NA	25.9	NA
MW-7C	D	23.00	23.86	23.81	23.84	23.84	24.57	23.15		23.73	25.03	23.40	NA	25.0	NA
MW-8C	D	23.67	24.09	24.02	22.76	22.76	24.64	22.84		24.58	25.20	23.54	NA	24.5	NA
MW-9C	D	24.02	24.16	24.18	23.01	23.01	25.17	23.00		25.24	26.28	24.32	NA	26.8	NA
MW-10C	D	23.31	24.01	24.08	24.66	24.66	24.64	24.10		23.87	23.94	24.16	NA	26.7	NA
MW-11C	D	23.38	23.91	24.01	23.38	23.38	24.99	22.70		24.90	26.13	24.74	NA	26.8	NA
MW-12C	D	23.45	24.07	24.17	24.39	24.39	24.26	22.48		24.85	25.77	23.72	NA	25.9	NA
MW-13C	D	23.66	23.87	23.89	23.33	23.33	24.49	21.90		24.39	24.99	23.82	NA	24.8	NA
MW-14C	D	23.40	23.82	23.77	24.16	24.16	24.86	24.09		NA	NA	NA	NA	NA	NA
MW-15C	D	23.30	24.05	23.95	23.60	23.60	24.51	23.78		NA	NA	NA	NA	NA	NA
MW-16C	D	MW- 16C through MW-23C were constructed as part of the Phases 2 and 3 development in Sep 2007							24.26	24.45	24.45	24.28	23.55	24.1	23.70
MW-17C	D								24.20	23.90	24.46	23.68	NA	NA	NA
MW-18C	D								24.99	24.29	24.38	23.60	NA	NA	NA
MW-19C	D								28.07	28.26	28.29	26.95	NA	26.5	NA
MW-20C	D								23.70	24.18	24.30	23.69	NA	NA	NA
MW-21C	D								24.13	24.48	24.44	23.97	NA	NA	NA
MW-22C	B								24.52	24.42	24.83	24.33	NA	NA	NA
MW-23C	B								24.64	24.27	24.82	23.92	NA	24.2	NA

Notes:

NA = Not Analyzed

Well type: (B) Background well (D) Detection well

MW-14A, 14B, 14C and MW-15A, 15B, 15C were decommissioned on 10 July 2007

MW-1A, 1B, 1C and MW-6A, 6B, 6C were converted to piezometers starting from the 7th event.

Table 4-3
Groundwater Field Measured Parameter - **Specific Conductance**
Third Biennial Technical Report on Water Quality
J.E.D. Solid Waste Management Facility

Well ID	Type	PH 1 Baseline Jan-04 (mS/cm)	1st Event Jul-04 (mS/cm)	2nd Event Jan-05 (mS/cm)	3rd Event Jul-05 (mS/cm)	4th Event Feb-06 (mS/cm)	5th Event Jul-06 (mS/cm)	6th Event Feb-07 (mS/cm)	PH 2&3 Baseline Sep-07 (mS/cm)	7th Event Nov-07 (mS/cm)	8th Event May-08 (mS/cm)	9th Event Nov-08 (mS/cm)	10th Event May-09 (mS/cm)	11th Event Nov-09 (mS/cm)	12th Event May-10 (mS/cm)
MW-1A	B	0.140	0.187	0.080	0.149	0.149	0.115	0.130	MW-1A through MW-15A are monitoring wells constructed as part of the Phase 1 development	NA	NA	NA	0.143	0.154	0.172
MW-2A	B	0.180	0.141	0.080	0.164	0.164	0.174	0.164		0.133	0.125	0.134	0.190	0.206	0.174
MW-3A	B	0.232	0.249	0.095	0.221	0.221	0.265	0.225		0.307	0.242	0.430	0.491	0.727	0.550
MW-4A	B	0.067	0.188	0.067	0.168	0.168	0.130	0.137		0.148	0.126	0.261	0.318	0.294	0.350
MW-5A	B	0.102	0.138	0.085	0.127	0.127	0.172	0.160		0.185	0.138	0.235	0.320	0.274	0.326
MW-6A	B	0.099	0.090	0.044	0.100	0.100	0.094	0.103		NA	NA	NA	0.247	0.288	0.309
MW-7A	D	0.164	0.120	0.045	0.225	0.225	0.143	0.120		0.150	0.099	0.159	0.188	0.185	0.179
MW-8A	D	0.215	0.159	0.092	0.136	0.136	0.119	0.221		0.254	0.136	0.285	0.273	0.333	0.360
MW-9A	D	0.152	0.120	0.071	0.177	0.177	0.124	0.163		0.145	0.095	0.176	0.168	0.221	0.209
MW-10A	D	0.107	0.147	0.083	0.163	0.163	0.133	0.124		0.123	0.087	0.142	0.156	0.143	0.177
MW-11A	D	0.212	0.271	0.155	0.213	0.213	0.222	0.194		0.222	0.193	0.203	0.208	0.441	0.529
MW-12A	D	0.078	0.115	0.073	0.126	0.126	0.113	0.087		0.139	0.284	0.085	0.206	0.125	0.149
MW-13A	D	0.333	0.164	0.101	0.171	0.171	0.175	0.153		0.156	0.127	0.111	0.155	0.132	0.156
MW-14A	D	0.120	0.201	0.102	0.162	0.162	0.250	0.110		NA	NA	NA	NA	NA	NA
MW-15A	D	0.161	0.109	0.062	0.146	0.146	0.107	0.109		NA	NA	NA	NA	NA	NA
MW-16A	D	MW- 16A through MW-23A were constructed as part of the Phases 2 and 3 development in Sep 2007							0.115	0.120	0.078	0.061	0.115	0.072	0.038
MW-17A	D								0.111	0.118	0.078	0.072	NA	NA	NA
MW-18A	D								0.089	0.087	0.066	0.066	NA	NA	NA
MW-19A	D								0.383	0.154	0.373	0.147	0.307	0.275	0.572
MW-20A	D								0.117	0.222	0.174	0.094	NA	NA	NA
MW-21A	D								0.105	0.191	0.115	0.105	NA	NA	NA
MW-22A	B								0.154	0.152	0.114	0.093	NA	NA	NA
MW-23A	B								0.149	0.162	0.137	0.159	0.493	0.218	0.200
MW-1B	B	0.045	0.062	0.029	0.056	0.056	0.042	0.040	MW-1A through MW-15A are monitoring wells constructed as part of the Phase 1 development	NA	NA	NA	0.046	NA	0.051
MW-2B	B	0.045	0.056	0.030	0.055	0.055	0.070	0.051		0.047	0.043	0.048	0.062	NA	0.068
MW-3B	B	0.068	0.090	0.049	0.084	0.084	0.083	0.074		0.072	0.066	0.099	0.155	NA	0.096
MW-4B	B	0.086	0.140	0.077	0.097	0.097	<0.200	0.085		0.079	0.515	0.844	0.485	NA	0.449
MW-5B	B	0.055	0.062	0.036	0.063	0.063	0.072	0.050		0.052	0.033	0.067	0.066	NA	0.155
MW-6B	B	0.082	0.088	0.040	0.054	0.054	0.057	0.049		NA	NA	NA	0.056	NA	0.067
MW-7B	D	0.074	0.106	0.049	0.091	0.091	0.088	0.077		0.088	0.069	0.089	0.109	NA	0.147
MW-8B	D	0.076	0.086	0.042	Fluctuated	0.069	0.069	0.054		0.055	0.043	0.048	0.064	NA	0.068
MW-9B	D	0.085	0.082	0.049	0.083	0.083	0.073	0.066		0.071	0.056	0.069	0.092	NA	0.153
MW-10B	D	0.056	0.068	0.043	0.091	0.091	0.074	0.088		0.087	0.055	0.064	0.084	NA	0.224
MW-11B	D	0.146	0.225	0.080	0.137	0.137	0.132	0.114		0.118	0.085	0.064	0.099	NA	0.101
MW-12B	D	0.062	0.112	0.045	0.077	0.077	0.074	0.070		0.077	0.061	0.072	0.101	NA	0.113
MW-13B	D	0.095	0.077	0.042	Fluctuated	0.070	0.068	0.063		0.064	0.048	0.047	0.068	NA	0.083
MW-14B	D	0.048	0.056	0.032	0.064	0.064	0.056	0.048		NA	NA	NA	NA	NA	NA
MW-15B	D	0.048	0.078	0.034	0.056	0.056	0.050	0.050		NA	NA	NA	NA	NA	NA
MW-16B	D	MW- 16B through MW-23B were constructed as part of the Phases 2 and 3 development in Sep 2007							0.074	0.087	0.052	0.054	0.084	0.080	0.078
MW-17B	D								0.089	0.117	0.073	0.082	NA	NA	NA
MW-18B	D								0.096	0.116	0.067	0.067	NA	NA	NA
MW-19B	D								0.135	0.121	0.096	0.086	0.129	NA	0.145
MW-20B	D								0.135	0.110	0.092	0.085	NA	NA	NA
MW-21B	D								0.126	0.100	0.081	0.09	NA	NA	NA
MW-22B	B								0.066	0.057	0.053	0.057	NA	NA	NA
MW-23B	B								0.084	0.080	0.058	0.065	0.085	NA	0.085
MW-1C	B	0.040	0.068	0.045	Fluctuated	0.076	0.058	0.057	MW-1A through MW-15A are monitoring wells constructed as part of the Phase 1 development	NA	NA	NA	NA	0.068	NA
MW-2C	B	0.033	0.065	0.038	0.066	0.066	0.054	0.050		0.048	0.041	0.043	NA	0.049	NA
MW-3C	B	0.045	0.085	0.043	0.080	0.080	0.076	0.066		0.064	0.048	0.053	NA	0.060	NA
MW-4C	B	0.092	0.143	0.072	0.110	0.110	0.122	0.094		0.120	0.075	0.093	NA	0.128	NA
MW-5C	B	0.101	0.097	0.054	0.085	0.085	0.093	0.081		0.088	0.057	0.071	NA	0.097	NA
MW-6C	B	0.035	0.060	0.032	0.046	0.046	0.054	0.044		NA	NA	NA	NA	0.050	NA
MW-7C	D	0.082	0.103	0.048	0.074	0.074	0.066	0.059		0.064	0.050	0.051	NA	0.067	NA
MW-8C	D	0.038	0.068	0.037	0.063	0.063	0.061	0.051		0.066	0.041	0.047	NA	0.062	NA
MW-9C	D	0.085	0.078	0.041	0.066	0.066	0.064	0.055		0.065	0.055	0.081	NA	0.196	NA
MW-10C	D	0.062	0.075	0.042	0.071	0.071	0.064	0.057		0.058	0.043	0.042	NA	0.064	NA
MW-11C	D	0.128	0.161	0.087	0.146	0.146	0.137	0.102		0.132	0.112	0.087	NA	0.114	NA
MW-12C	D	0.050	0.065	0.035	0.063	0.063	0.058	0.052		0.058	0.050	0.046	NA	0.061	NA
MW-13C	D	0.067	0.079	0.043	0.071	0.071	0.068	0.057		0.065	0.059	0.048	NA	0.069	NA
MW-14C	D	0.065	0.100	0.058	0.078	0.078	0.090	0.073		NA	NA	NA	NA	NA	NA
MW-15C	D	0.095	0.095	0.049	0.083	0.083	0.081	0.087		NA	NA	NA	NA	NA	NA
MW-16C	D	MW- 16C through MW-23C were constructed as part of the Phases 2 and 3 development in Sep 2007							0.083	0.107	0.066	0.073	0.108	0.109	0.111
MW-17C	D								0.099	0.125	0.073	0.074	NA	NA	NA
MW-18C	D								0.121	0.122	0.075	0.081	NA	NA	NA
MW-19C	D								0.115	0.101	0.086	0.087	NA	0.121	NA
MW-20C	D								0.118	0.096	0.085	0.077	NA	NA	NA
MW-21C	D								0.117	0.101	0.080	0.094	NA	NA	NA
MW-22C	B								0.517	0.473	0.400	0.433	NA	NA	NA
MW-23C	B								0.112	0.113	0.088	0.086	NA	0.105	NA

Notes:
NA = Not Analyzed
mS/cm = millisiemens per centimeter
Well type: (B) Background well (D) Detection well
MW-14A, 14B, 14C and MW-15A, 15B, 15C were decommissioned on 10 July 2007
MW-1A, 1B, 1C and MW-6A, 6B, 6C were converted to piezometers starting from the 7th event.

Some specific conductance values still fluctuated after purging five well volumes

Table 4-4
Groundwater Field Measured Parameter - Turbidity
Third Biennial Technical Report on Water Quality
J.E.D. Solid Waste Management Facility

Well ID	Type	PH 1 Baseline Jan-04 (NTUs)	1st Event Jul-04 (NTUs)	2nd Event Jan-05 (NTUs)	3rd Event Jul-05 (NTUs)	4th Event Feb-06 (NTUs)	5th Event Jul-06 (NTUs)	6th Event Feb-07 (NTUs)	PH 2&3 Baseline Sep-07 (NTUs)	7th Event Nov-07 (NTUs)	8th Event May-08 (NTUs)	9th Event Nov-08 (NTUs)	10th Event May-09 (NTUs)	11th Event Nov-09 (NTUs)	12th Event May-10 (NTUs)
MW-1A	B	17.0	0.8	1.3	0.5	0.1	0.0	0.7	MW-1A through MW-15A are monitoring wells constructed as part of the Phase 1 development	NA	NA	NA	0	0.5	0.1
MW-2A	B	0.6	2.4	0.0	1.5	0.0	0.9	1.5		0.5	8.2	1.1	0.1	3.0	1.2
MW-3A	B	5.0	1.0	1.3	1.3	5.5	0.5	0.4		0.3	0.9	0.9	0	0.4	0.3
MW-4A	B	6.9	32.7	9.0	0.5	1.0	1.4	2.2		0.5	2.2	2.9	0.1	2.1	0.3
MW-5A	B	45.0	51.5	13.6	10.5	17.2	4.9	10.3		6.2	10.0	10.4	3.7	12.0	7.4
MW-6A	B	6.1	1.5	6.0	2.5	4.5	0.1	1.2		NA	NA	NA	0	0.4	4.1
MW-7A	D	5.1	1321.0	5.6	0.8	0.4	0.0	0.3		0.5	11.3	0.4	0	0.0	0.3
MW-8A	D	7.8	5.6	2.0	3.6	1.0	0.6	2.4		1.0	0.0	0.6	0	1.1	1.7
MW-9A	D	5.0	14.0	16.3	10.4	6.5	0.0	17.0		2.2	2.4	8.8	1.1	8.9	6.5
MW-10A	D	2.8	12.5	14.0	8.8	14.9	1.4	16.4		4.7	15.8	12.4	1.9	19.0	11.2
MW-11A	D	9.3	8.1	10.1	6.3	7.0	5.8	9.8		12.4	9.9	6.0	1.1	9.8	1.8
MW-12A	D	4.2	1.5	2.0	0.9	0.1	0.7	2.3		0.0	0.2	0.4	0	0.1	0.0
MW-13A	D	2.8	0.0	0.0	0.9	0.3	1.0	1.5		2.5	1.9	2.9	7.1	3.6	2.4
MW-14A	D	0.0	4.8	34.0	101.0	55.7	20.0	29.5		NA	NA	NA	NA	NA	NA
MW-15A	D	13.0	4.5	2.0	1.1	0.0	1.2	0.0		NA	NA	NA	NA	NA	NA
MW-16A	D	MW- 16A through MW-23A were constructed as part of the Phases 2 and 3 development in Sep 2007							0.5	2.4	0.0	4.0	11.8	6.1	4.2
MW-17A	D								2.8	4.2	0.0	2.1	NA	NA	NA
MW-18A	D								42.0	3.1	0.3	8.1	NA	NA	NA
MW-19A	D								69.9	0.0	65.7	15.8	71	55.0	56.5
MW-20A	D								2.0	3.9	7.7	18.7	NA	NA	NA
MW-21A	D								0.0	0.0	3.9	1.3	NA	NA	NA
MW-22A	B								0.0	0.4	0.1	1.9	NA	NA	NA
MW-23A	B								11.0	3.2	3.2	1.5	13	1.8	18.2
MW-1B	B	360.0	258.0	115.0	14.2	5.4	0.0	0.7	MW-1A through MW-15A are monitoring wells constructed as part of the Phase 1 development	NA	NA	NA	0	NA	0.5
MW-2B	B	800.0	85.3	38.9	55.0	31.7	6.2	4.2		6.2	17.5	0.2	2	NA	3.8
MW-3B	B	550.0	695.0	233.0	44.3	62.0	14.5	6.9		6.2	2.5	0.7	1	NA	1.2
MW-4B	B	61.0	28.0	13.1	18.6	14.4	3.8	0.6		0.5	0.0	0.1	0.2	NA	0.3
MW-5B	B	22.0	5.4	8.9	3.3	2.3	1.9	0.3		0.4	3.7	0.6	0.2	NA	0.3
MW-6B	B	573.0	378.0	128.0	63.5	19.5	14.7	19.2		NA	NA	NA	5.5	NA	3.0
MW-7B	D	550.0	1184.0	130.0	62.0	82.0	16.0	18.9		17.7	8.5	3.2	17.1	NA	1.2
MW-8B	D	668.0	720.0	144.0	157.0	62.0	69.3	31.4		59.2	19.1	44.4	20	NA	16.4
MW-9B	D	179.0	130.0	135.0	49.0	22.6	8.9	8.3		7.0	16.2	8.2	14	NA	6.6
MW-10B	D	37.6	26.3	5.5	2.4	0.6	1.0	0.6		0.4	0.0	0.1	0.9	NA	0.3
MW-11B	D	13.0	625.0	92.3	19.2	3.1	11.0	1.7		3.3	13.0	6.2	8.5	NA	9.9
MW-12B	D	>999	1178.0	123.0	30.0	19.7	20.0	41.4		5.7	5.9	8.2	4	NA	3.1
MW-13B	D	>999	161.5	161.0	48.4	19.0	19.7	13.0		18.7	19.5	10.0	17.9	NA	16.9
MW-14B	D	78.3	66.4	57.0	65.0	16.3	4.2	9.2		NA	NA	NA	NA	NA	NA
MW-15B	D	10.8	207.0	226.0	8.3	7.9	0.8	0.1		NA	NA	NA	NA	NA	NA
MW-16B	D	MW- 16B through MW-23B were constructed as part of the Phases 2 and 3 development in Sep 2007							96.9	276.0	590.0	57.1	16.8	70.8	15.0
MW-17B	D								149.0	65.3	42.4	11.2	NA	NA	NA
MW-18B	D								63.1	5.4	11.0	6.8	NA	NA	NA
MW-19B	D								66.8	19.2	44.2	17.4	17.6	NA	18.0
MW-20B	D								186.0	190.0	76.0	76.2	NA	NA	NA
MW-21B	D								189.0	100.0	47.0	18.8	NA	NA	NA
MW-22B	B								> 1000	113.0	45.3	50.2	NA	NA	NA
MW-23B	B								2.2	3.5	2.0	0.5	0.5	NA	2.1
MW-1C	B	408.0	43.0	54.0	19.5	19.4	6.0	4.9	MW-1A through MW-15A are monitoring wells constructed as part of the Phase 1 development	NA	NA	NA	NA	6.0	NA
MW-2C	B	350.0	65.3	35.7	19.0	10.1	9.0	4.2		4.2	2.2	0.6	NA	0.6	NA
MW-3C	B	450.0	130.0	9.8	19.0	7.2	5.4	5.4		2.3	2.7	1.6	NA	1.8	NA
MW-4C	B	907.0	1130.0	228.0	114.0	102.0	81.2	17.1		59.0	18.9	17.7	NA	41.0	NA
MW-5C	B	215.0	14.4	10.8	3.0	0.0	4.1	4.2		13.2	10.8	3.5	NA	2.7	NA
MW-6C	B	789.0	35.0	32.1	15.3	9.3	16.8	12.2		NA	NA	NA	NA	2.7	NA
MW-7C	D	>999	1184.0	121.0	19.0	19.4	8.8	6.4		4.6	6.0	2.2	NA	1.2	NA
MW-8C	D	87.1	7.0	5.4	7.4	2.1	2.6	3.9		3.7	2.6	1.5	NA	1.6	NA
MW-9C	D	72.0	0.0	2.3	2.0	1.5	1.0	1.1		0.9	10.2	6.2	NA	8.8	NA
MW-10C	D	657.0	48.6	17.5	17.6	30.8	11.2	9.7		4.9	7.9	11.6	NA	14.2	NA
MW-11C	D	121.0	15.5	10.2	8.5	1.2	1.6	1.9		0.9	0.0	1.0	NA	1.0	NA
MW-12C	D	109.0	8.5	10.9	12.9	1.3	2.4	1.2		0.4	0.0	4.1	NA	0.6	NA
MW-13C	D	70.7	5.0	4.7	4.7	4.0	3.5	2.1		2.2	12.0	1.7	NA	3.1	NA
MW-14C	D	160.0	156.0	75.0	17.3	9.5	19.6	10.1		NA	NA	NA	NA	NA	NA
MW-15C	D	70.0	5.4	7.0	2.5	1.6	1.9	0.4		NA	NA	NA	NA	NA	NA
MW-16C	D	MW- 16C through MW-23C were constructed as part of the Phases 2 and 3 development in Sep 2007							16.9	10.4	11.7	6.2	4.1	13.7	4.8
MW-17C	D								53.1	18.0	12.7	6.9	NA	NA	NA
MW-18C	D								176.0	70.7	88.4	19.0	NA	NA	NA
MW-19C	D								171.0	226.0	66.5	71.0	NA	70.8	NA
MW-20C	D								192.0	113.0	178.0	60.0	NA	NA	NA
MW-21C	D								162.0	68.2	105.6	72.0	NA	NA	NA
MW-22C	B								19.7	5.8	1.2	2.1	NA	NA	NA
MW-23C	B								700.0	80.1	18.7	16.8	NA	17.7	NA

Notes:

NA = Not Analyzed

Well type: (B) Background well (D) Detection well

MW-14A, 14B, 14C and MW-15A, 15B, 15C were decommissioned on 10 July 2007

MW-1A, 1B, 1C and MW-6A, 6B, 6C were converted to piezometers starting from the 7th event.

NTU = Nephelometric Turbidity Units

Highlighted values exceed Secondary Drinking Water Standard for turbidity (20 NTUs)

Table 4-5
Groundwater Field Measured Parameter - Dissolved Oxygen
Third Biennial Technical Report on Water Quality
J.E.D. Solid Waste Management Facility

Well ID	Type	PH 1 Baseline Jan-04 (mg/L)	1st Event Jul-04 (mg/L)	2nd Event Jan-05 (mg/L)	3rd Event Jul-05 (mg/L)	4th Event Feb-06 (mg/L)	5th Event Jul-06 (mg/L)	6th Event Feb-07 (mg/L)	PH 2&3 Baseline Sep-07 (mg/L)	7th Event Nov-07 (mg/L)	8th Event May-08 (mg/L)	9th Event Nov-08 (mg/L)	10th Event May-09 (mg/L)	11th Event Nov-09 (mg/L)	12th Event May-10 (mg/L)
MW-1A	B	1.06	0.50	0.82	0.22	0.22	1.49	1.57	MW-1A through MW-15A are monitoring wells constructed as part of the Phase 1 development	NA	NA	NA	0.23	0.6	0.44
MW-2A	B	0.45	0.88	0.62	0.19	0.19	0.39	0.70		0.26	0.50	0.18	0.21	0.7	0.40
MW-3A	B	0.49	0.38	0.68	0.16	0.16	0.28	1.20		0.32	0.36	0.27	0.3	0.5	0.44
MW-4A	B	0.52	0.36	0.54	0.31	0.31	0.33	1.54		0.42	0.81	0.23	0.23	0.6	0.54
MW-5A	B	0.52	1.23	0.83	0.26	0.26	0.24	1.20		0.28	0.24	0.26	0.39	0.4	0.51
MW-6A	B	0.39	0.34	0.44	0.21	0.21	0.12	1.07		NA	NA	NA	0.33	0.4	0.46
MW-7A	D	0.63	1.17	0.78	0.43	0.43	0.19	1.33		0.41	0.76	0.30	0.59	0.4	0.46
MW-8A	D	2.08	0.56	0.50	0.44	0.44	0.27	1.68		0.21	0.65	0.33	0.4	0.5	0.42
MW-9A	D	0.47	1.03	0.85	0.26	0.26	0.18	1.27		0.27	0.22	0.90	0.54	0.7	0.43
MW-10A	D	0.76	0.40	0.53	0.31	0.31	0.18	1.13		0.32	0.65	0.72	0.22	0.5	0.59
MW-11A	D	3.30	1.41	0.91	0.09	0.09	0.22	0.90		0.16	0.45	0.42	0.16	0.5	0.73
MW-12A	D	0.46	0.09	0.61	0.19	0.19	0.17	1.24		0.19	0.42	0.28	0.17	0.5	0.69
MW-13A	D	1.13	0.24	0.45	0.37	0.37	0.33	0.95		0.78	0.45	0.59	0.35	0.3	0.35
MW-14A	D	1.95	0.27	0.92	0.15	0.15	0.06	0.74		NA	NA	NA	NA	NA	NA
MW-15A	D	0.46	0.37	0.45	0.13	0.13	0.13	0.73		NA	NA	NA	NA	NA	NA
MW-16A	D	MW- 16A through MW-23A were constructed as part of the Phases 2 and 3 development in Sep 2007							1.11	0.91	0.31	2.62	0.34	1.6	2.43
MW-17A	D								1.25	0.25	0.86	0.56	NA	NA	NA
MW-18A	D								0.28	0.49	0.94	0.40	NA	NA	NA
MW-19A	D								0.16	0.27	0.34	0.28	0.13	0.6	0.32
MW-20A	D								0.40	0.96	0.53	1.42	NA	NA	NA
MW-21A	D								0.93	0.23	0.79	1.58	NA	NA	NA
MW-22A	B								0.56	0.40	0.36	0.41	NA	NA	NA
MW-23A	B								0.56	0.18	0.36	0.45	0.25	0.6	0.53
MW-1B	B	0.83	0.64	0.47	0.12	0.12	0.41	0.75	MW-1A through MW-15A are monitoring wells constructed as part of the Phase 1 development	NA	NA	NA	0.08	NA	0.26
MW-2B	B	0.60	0.19	0.80	0.10	0.10	0.24	0.88		0.29	0.42	0.44	0.05	NA	0.14
MW-3B	B	0.51	0.20	0.42	0.12	0.12	0.24	1.07		0.21	0.19	0.13	0.19	NA	0.14
MW-4B	B	1.17	0.12	0.90	0.35	0.35	0.21	1.00		0.41	0.43	0.27	0.11	NA	0.23
MW-5B	B	0.70	0.15	0.44	0.21	0.21	0.24	0.58		0.44	0.53	0.37	0.33	NA	0.30
MW-6B	B	0.67	0.16	0.80	0.18	0.18	0.14	0.59		NA	NA	NA	0.2	NA	0.51
MW-7B	D	1.12	0.09	0.36	0.18	0.18	0.09	0.69		0.26	0.33	0.13	0.41	NA	0.23
MW-8B	D	0.77	0.34	0.48	0.01	0.01	0.29	0.57		0.19	0.32	0.26	0.2	NA	0.13
MW-9B	D	0.64	0.27	0.46	0.02	0.02	0.18	0.38		0.31	0.28	0.32	0.36	NA	0.59
MW-10B	D	0.55	0.31	0.38	0.14	0.14	0.38	0.91		0.35	0.29	0.19	0.12	NA	0.32
MW-11B	D	0.48	0.24	0.53	0.15	0.15	0.20	0.77		0.10	0.37	0.07	0.12	NA	0.19
MW-12B	D	0.46	0.17	0.80	0.12	0.12	0.20	0.49		0.20	0.26	0.31	0.08	NA	0.26
MW-13B	D	0.48	0.21	0.38	0.30	0.30	0.15	0.58		0.11	0.17	0.11	0.13	NA	0.19
MW-14B	D	0.72	1.32	0.38	0.17	0.17	0.28	0.56		NA	NA	NA	NA	NA	NA
MW-15B	D	0.35	0.26	0.69	0.15	0.15	0.74	1.32		NA	NA	NA	NA	NA	NA
MW-16B	D	MW- 16B through MW-23B were constructed as part of the Phases 2 and 3 development in Sep 2007							0.75	0.18	0.40	0.22	0.08	0.5	0.22
MW-17B	D								0.41	0.42	0.27	0.25	NA	NA	NA
MW-18B	D								0.18	0.34	1.37	0.36	NA	NA	NA
MW-19B	D								0.15	0.87	0.17	0.19	0.06	NA	0.29
MW-20B	D								0.17	0.73	0.29	0.30	NA	NA	NA
MW-21B	D								0.26	0.35	0.31	0.18	NA	NA	NA
MW-22B	B								0.18	0.33	0.25	0.30	NA	NA	NA
MW-23B	B								0.22	0.20	0.53	0.47	0.11	NA	0.41
MW-1C	B	0.83	0.17	0.44	0.12	0.12	0.13	0.72	MW-1A through MW-15A are monitoring wells constructed as part of the Phase 1 development	NA	NA	NA	NA	0.5	NA
MW-2C	B	3.44	0.18	0.78	0.11	0.11	0.24	0.55		0.24	0.79	0.66	NA	0.3	NA
MW-3C	B	0.92	0.17	0.82	0.16	0.16	0.27	0.87		0.58	0.29	0.35	NA	0.3	NA
MW-4C	B	0.37	0.22	0.48	0.19	0.19	0.18	0.63		0.30	0.29	0.32	NA	0.3	NA
MW-5C	B	0.71	0.20	0.42	0.17	0.17	0.38	1.55		0.67	0.51	0.43	NA	0.6	NA
MW-6C	B	0.49	0.23	0.38	0.20	0.20	0.23	1.02		NA	NA	NA	NA	0.4	NA
MW-7C	D	0.33	0.10	0.50	0.38	0.38	0.11	1.62		0.72	0.71	0.51	NA	0.5	NA
MW-8C	D	0.57	0.19	0.46	0.02	0.02	0.29	1.11		0.44	0.46	0.53	NA	0.4	NA
MW-9C	D	0.87	0.22	0.36	0.26	0.26	0.28	0.71		0.42	0.33	0.44	NA	0.3	NA
MW-10C	D	0.46	0.27	0.71	0.13	0.13	0.22	0.86		0.37	0.31	0.10	NA	0.6	NA
MW-11C	D	0.39	0.27	0.40	0.13	0.13	0.36	0.83		0.26	0.39	0.21	NA	0.3	NA
MW-12C	D	1.19	0.21	0.51	0.31	0.31	0.34	0.62		0.29	0.22	0.58	NA	0.5	NA
MW-13C	D	0.94	0.21	0.82	0.52	0.52	0.23	0.68		0.23	0.23	0.45	NA	0.4	NA
MW-14C	D	0.99	0.34	0.71	0.13	0.13	0.26	0.78		NA	NA	NA	NA	NA	NA
MW-15C	D	0.46	0.15	0.42	0.22	0.22	0.23	1.01		NA	NA	NA	NA	NA	NA
MW-16C	D	MW- 16C through MW-23C were constructed as part of the Phases 2 and 3 development in Sep 2007							0.64	0.27	0.27	0.25	0.09	0.6	0.27
MW-17C	D								0.40	0.27	0.19	0.18	NA	NA	NA
MW-18C	D								0.11	0.33	0.30	0.22	NA	NA	NA
MW-19C	D								0.32	0.18	0.18	0.50	NA	0.5	NA
MW-20C	D								0.18	1.26	0.40	0.41	NA	NA	NA
MW-21C	D								0.12	0.13	0.56	0.25	NA	NA	NA
MW-22C	B								0.24	0.56	0.33	0.42	NA	NA	NA
MW-23C	B								0.22	0.20	0.36	0.26	NA	0.5	NA

Notes:

NA = Not Analyzed

Well type: (B) Background well (D) Detection well

MW-14A, 14B, 14C and MW-15A, 15B, 15C were decommissioned on 10 July 2007.

MW-1A, 1B, 1C and MW-6A, 6B, 6C were converted to piezometers starting from the 7th event.

mg/L = milligram per liter

Table 4-6
Surface Water Field Measured Parameters
Third Biennial Technical Report on Water Quality
J.E.D. Solid Waste Management Facility

Parameter Monitored	Class III Standard Criteria	Units	Baseline Jan-04	1st Event July-04	2nd Event Jan-05	3rd Event July-05	4th Event Feb-06	5th Event July-06	6th Event Feb-07	7th Event Nov-07	8th Event May-08	9th Event Nov-08	10th Event May-09	11th Event Nov-09	12th Event May-10
SW-3															
Dissolved Oxygen	>5	mg/L	7.84	4.03	6.55	3.23	5.55	7.58	10.95	7.41	3.24	6.8	2.16	No Sample	2.45
pH	6.0 - 8.5	pH units	6.09	4.37	4.77	4.37	5.06	5.07	4.63	4.58	5.43	5.06	5.64	No Sample	5.18
Temperature	--	degrees C	19.34	27.65	14.76	28.88	17.17	31.29	19.88	15.11	22.9	17.56	23.43	No Sample	22.44
Specific Conductance	not 50% above background or 1275	µS/cm	114	46	67	42	92	76	73	95	31	56	116	No Sample	50
Turbidity	< 29 plus background	NTU	*	1.4	3.82	2.2	1.56	0.75	2.1	0.2	0	0.2	0.6	No Sample	0
SW-4															
Dissolved Oxygen	>5	mg/L	*	3.19	8.4	2.24	6.16	4.13	8.75	7.47	3.74	5.36	1.98	No Sample	1.5
pH	6.0 - 8.5	pH units	*	3.72	4.78	3.61	4.71	4.54	4.48	4.29	4.8	4.7	5.88	No Sample	4.58
Temperature	--	degrees C	*	27.72	14.60	28.31	15.82	28.1	18.23	14.08	22.35	18	24.08	No Sample	23.39
Specific Conductance	not 50% above background or 1275	µS/cm	*	43	55	40	94	60	53	98	30	55	107	No Sample	44
Turbidity	< 29 plus background	NTU	*	1.2	15.5	3.6	1.6	1.14	3	0.3	7.4	0.2	2.2	No Sample	0

- Notes:
1. Shaded values exceed Class III Standard Criteria
 2. "--" indicates that no criteria has been established.
 3. "*" indicates that measurements were taken at the time of sampling but forms were lost.
 4. Per the Permit requirements, surface water samples are to be collected only if flow is observed in Bull Creek. No samples were collected when no flow was observed.

Table 4-7
Leachate Field Measured Parameters
Third Biennial Technical Report on Water Quality
J.E.D Solid Waste Management Facility

Parameter	Regulatory Level	Unit	July 2004 Event	July 2005 Event	July 2006 Event			Nov 2007 Event			
			L-1	L-1	L-1	L-2	L-4	L-1	L-2	L-3	L-4
Temperature	-	°C	28.22	31.57	32.5	33.6	31.7	28.75	30	28.23	37.28
pH	-	Std Units	4.88	5.21	6.9	4.55	6.85	6.75	5.97	4.74	6.4
Conductivity	-	mS/cm	0.478	6.45	14.28	2.696	15.66	5.312	6.362	4.044	10.14
Turbidity	-	NTU	0	79.5	1	24.8	4.82	3	28.2	12.8	1
Oxidation/Reduction Potential (ORP)	-	mV	27.2	-85.2	-342.3	-94.6	-330.5	-57.5	-208.5	-171.7	-295.3
Dissolved Oxygen (DO)	-	mg/L	0.99	4.84	0.99	3.75	0.18	0.3	0.26	0.22	0.22

Parameter	Regulatory Level	Unit	Nov 2008 Event					Nov 2009 Event					
			L-1	L-2	L-3	L-4	L-5	L-1	L-2	L-3	L-4	L-5	L-6
Temperature	-	°C	28.9	28.79	27.66	33.05	29.86	31.23	29.98	31.03	38.86	39.09	31.7
pH	-	Std Units	7.3	6.2	6.5	7.2	5.2	7.2	6.6	6.6	6.8	6.4	6.4
Conductivity	-	mS/cm	20.8	11.82	3.42	15.8	6.37	23.4	13.4	12	17.3	9.8	7.8
Turbidity	-	NTU	5	8.3	34.7	0.1	87.7	0.8	1.6	37	0.9	22.8	68.8
Oxidation/Reduction Potential (ORP)	-	mV	-194.8	-215.7	-184.1	-111.5	-89.7	-34.7	-260.6	-168.5	-255.8	-161.7	-238.3
Dissolved Oxygen (DO)	-	mg/L	0.57	2.77	1.06	0.85	2.68	2.2	0.17	0.56	0.13	0.33	0.4

Notes:
°C = Degrees Celsius
Std Units = Standard Units
mS/cm = milliSiemens per centimeter
NTU = Nephalometric Turbidity Units
mV = Millivolts
mg/L = milligram per liter

5. DETECTED PARAMETERS

5.1 Overview

In accordance with the MPIS of the current FDEP permit and Rule 62-701.510(9)(b) F.A.C., the biennial technical report is to include: (i) tabular displays of any monitoring parameter that has been detected; and (ii) graphical displays of any key leachate indicator parameter detected such as; pH, specific conductance, TDS, TOC, sulfate, chloride, sodium, and iron. The laboratory analytical test results for the two initial background events (i.e., Phase 1 wells, and Phases 2 and 3 wells) and the twelve semi-annual water quality monitoring reports were used to create the tabular and graphical displays required. Copies of the analytical laboratory reports not previously submitted with the first or second BTRWQ (i.e., for the ninth through twelfth semi-annual monitoring events) have been provided on a compact disk (CD) included in Appendix A.

5.2 Groundwater

Analytical laboratory results have been summarized to show all parameters reported above the practical quantitative limit. The tables generated showing all parameters detected above the PQL's but below the Groundwater Cleanup Target Levels (GCTL's) are included in Appendix B. Sample data for parameters detected above the PQL, but within the regulatory guidelines are shaded green. Tables for all detected parameters exceeding GCTL's as provided in Chapter 62-777 F.A.C. are presented in the orange shaded cells and are included in this Section. These parameters are discussed further in Section 6 of this report. Parameters which exceeded the GCTL's at a minimum of one well location for all monitoring events are; arsenic, ammonia-N, beryllium, chromium, iron, lead, toluene, total dissolved solids (TDS), vanadium, benzene, and vinyl chloride.

5.3 Surface Water

Table 5-12 (SW-3) and Table 5-13 (SW-4) summarize the parameters that have been detected in the surface water samples collected during the water quality monitoring events and compared with the Class III surface water quality standards (SWQS) presented in Rule 62-302.530 F.A.C. Graphical displays of the surface water data for pH, dissolved oxygen and iron are depicted in Figure 6-14.

Iron and fecal coliform were the only parameters detected that exceed the Class III SWQS. As shown in Tables 5-12 and 5-13, the detected iron concentrations in SW-3 and SW-4 are very comparable. The iron exceedances at the up-gradient monitoring station, SW-4 were encountered during the performance of the Phase 1 background monitoring event and during the twelfth semi-annual monitoring event performed in May 2010. The iron exceedances in the down-gradient monitoring station, SW-3 were encountered during the performance of the tenth and twelfth semi-annual monitoring events in May 2009 and May 2010, respectively. The iron concentrations detected for these two exceedances at SW-3 are of the same magnitude as the baseline iron concentration detected during the background sampling event for Phase 1. Based on this historical data, it doesn't appear as though the operation of the JED facility is the cause of the iron concentrations exceeding the SWQS. The highest iron detection at either monitoring station in Bull Creek was recorded prior to any waste being accepted at the JED facility.

Fecal coliform testing was not required by the FDEP prior to the performance of the seventh semi-annual monitoring event in November 2007. Analysis for fecal coliform has only been performed for the last five monitoring events. Fecal coliform was detected in the up-gradient monitoring station, SW-4 at concentrations exceeding the Class III SWQS during the seventh and eighth semi-annual monitoring events. Fecal coliform concentrations at the down-gradient monitoring station, SW-3 have been below the Class III SWQS level and always at lower concentrations detected at the up-gradient monitoring station, SW-4. It should be noted that all of the land surrounding Bull Creek, from which the surface water samples are collected, near the site is used for cattle grazing operations.

5.4 Leachate

The leachate analytical laboratory results have been summarized in Table 5-14 to show all parameters reported above the practical quantitative limit for the leachate samples collected from 2004 to 2009. No parameter detected in the leachate samples has exceeded the regulatory levels established in 40 Code of Federal Regulations (CFR) Part 261.24 (Hazardous Waste Toxicity Characteristic).

Table 5-1

Arsenic Concentrations in Monitoring Wells

Third Biennial Technical Report on Water Quality

J.E.D. Solid Waste Management Facility

Well ID	Type	PH 1 Baseline Jan-04 (µg/L)		1st Event Jul-04 (µg/L)		2nd Event Jan-05 (µg/L)		3rd Event Jul-05 (µg/L)		4th Event Feb-06 (µg/L)		5th Event Jul-06 (µg/L)		6th Event Feb-07 (µg/L)		PH 2&3 Baseline Sep-07 (µg/L)	7th Event Nov-07 (µg/L)		8th Event May-08 (µg/L)		9th Event Nov-08 (µg/L)		10th Event May-09 (µg/L)		11th Event Nov-09 (µg/L)		12th Event May-10 (µg/L)			
MW-1A	B	10	U	3.8	U	3.8	I	2.8	U	1.1		0.73		0.3	U	MW-1A through MW-15A are monitoring wells constructed as part of the Phase 1 development	NA		NA		NA		0.95		1.25		2.01			
MW-2A	B	10	U	3.8	U	3.8	U	2.8	U	2.2		1.5		1.7			0.5	I	0.7		0.9		1.24		1.14		0.87			
MW-3A	B	10	U	3.8	U	3.8	U	2.8	U	1.1		1.2		0.3	U		0.3	I	1.4		1.2		0.68		2.26		1.58			
MW-4A	B	10	U	3.8	U	3.8	U	2.8	U	0.9		0.32	I	0.5	I		0.8		1.9		0.9		1.39		1.56		1.41			
MW-5A	B	10	U	3.8	U	3.8	U	2.8	U	0.9		0.81		1.0			1.2		1.3		1.4		1.72		1.76		1.75			
MW-6A	B	10	U	3.8	U	3.8	U	2.8	U	0.6		0.58		0.3	U		NA		NA		NA		3.38		0.68		0.99			
MW-7A	D	10	U	16	I	3.8	U	2.8	U	0.8		0.56		0.8			0.7		1.4		1.2		6.98		1.68		1.74			
MW-8A	D	10	U	3.8	U	3.8	U	2.8	U	0.6		0.53		0.8			0.6	U	0.2	U	0.9		0.53		1.12		1.04			
MW-9A	D	10	U	3.8	U	3.8	U	2.8	U	1.8		0.88		2.3			2.2		2.2		2.4		2.42		1.51		1.67			
MW-10A	D	10	U	3.8	U	3.8	U	2.8	U	2.5		1.5		2.3			0.9	I	1.2		1.9		1.57		1.81		1.12			
MW-11A	D	17		27		31		21		18.0		20		20.0			19		21		19		12.7		11		6.34			
MW-12A	D	10	U	3.8	U	4.7	I	2.8	U	1.9		2.5		1.3			4.1		12		2		6.79		1.97		1.22			
MW-13A	D	10	U	5.3	I	13		15.5		18.0		21		19.0			16		24		16		17.5		16.4		16.1			
MW-14A	D	10	U	3.8	U	3.8	U	2.8	U	1.5		0.59		0.6			MW-14A & MW-15A were abandoned in July 2007													
MW-15A	D	10	U	3.8	U	3.8	U	2.8	U	0.8		0.28	U	0.5																
MW-16A	D	MW- 16A through MW-23A were constructed as part of the Phases 2 and 3 development in Sep 2007															0.74		0.6		0.6		0.2	U	0.4	I	0.2	U	0.2	I
MW-17A	D																0.54		0.9		0.5	I	0.5	I	NA		NA			
MW-18A	D																0.39	I	0.3	I	0.2	U	1.3		NA		NA			
MW-19A	D																13		0.7		7.4		1.9		3.98		2.61		8.72	
MW-20A	D																0.5		0.3	I	0.4	I	0.2	U	NA		NA			
MW-21A	D																0.85		0.4	I	0.2	U	0.2	U	NA		NA			
MW-22A	B																0.29	I	0.4	I	0.2	U	0.2	I	NA		NA			
MW-23A	B																0.36	I	0.4	I	0.4	I	0.3	I	0.35	I	0.49	I	0.65	
MW-1B	B	10	U	3.8	U	3.8	U	2.8	U	1.0		0.28	U	0.3	U	MW-1A through MW-15A are monitoring wells constructed as part of the Phase 1 development	NA		NA		NA		0.2	U	NA		0.14	U		
MW-2B	B	10	U	3.8	U	3.8	U	2.8	U	0.7		0.41	I	0.3	U		0.3	U	0.2	U	1.4		0.2	U	NA		0.14	U		
MW-3B	B	10	U	7.2	I	3.8	U	2.8	U	0.5		0.43	I	0.7			0.3	U	0.4	I	0.2	U	0.33	I	NA		0.14	U		
MW-4B	B	10	U	3.8	U	3.8	U	2.8	U	0.3	U	0.28	U	0.3	U		0.3	U	1.3		1.1		1.12		NA		1.32			
MW-5B	B	10	U	3.8	U	3.8	U	2.8	U	0.3	U	0.28	U	0.3	I		0.3	U	0.2	U	0.5		0.49	I	NA		0.85			
MW-6B	B	10	U	3.8	U	3.8	U	2.8	U	0.3	U	0.62		0.3	U		NA		NA		NA		0.79		NA		0.46	I		
MW-7B	D	10	U	7.4	I	3.8	U	2.8	U	0.5	I	0.34	I	0.3	U		0.3	U	0.2	U	0.4	I	1.76		NA		0.83			
MW-8B	D	10	U	5.4	I	3.8	U	4.9	I	0.6		0.43	I	0.3	U		0.6	U	0.2	U	0.3	I	0.24	I	NA		0.55			
MW-9B	D	10	U	3.8	U	3.8	U	2.8	U	0.3	U	0.32	I	0.3	U		0.6	U	0.2	U	0.4	I	0.38	I	NA		0.69			
MW-10B	D	10	U	3.8	U	3.8	U	2.8	U	0.6		0.34	I	0.3	U		0.6	U	0.2	U	0.4	i	0.2	U	NA		0.66			
MW-11B	D	10	U	3.8	U	3.8	U	2.8	U	0.3	U	0.29		0.3	U		0.3	U	0.4	I	0.7		0.57		NA		0.76			
MW-12B	D	10	U	3.8	U	3.8	U	2.8	U	0.3	U	0.28	U	1.0			0.3	U	0.2	I	0.4	i	0.46	I	NA		0.15	I		
MW-13B	D	10	U	3.8	U	3.8	U	2.8	U	0.3	U	0.46		0.3	U		0.3	U	0.2	U	0.2	i	0.32	I	NA		0.14	U		
MW-14B	D	10	U	3.8	U	3.8	U	2.8	U	0.3	I	0.28	U	0.3	U		MW-14B & MW-15B were abandoned in July 2007													
MW-15B	D	10	U	3.8	U	3.8	U	2.8	U	1.0		0.42	i	0.3	U															
MW-16B	D	MW- 16B through MW-23B were constructed as part of the Phases 2 and 3 development in Sep 2007															0.33	I	0.6	U	1.0		0.2	U	0.26	I	0.37	I	0.34	I
MW-17B	D																0.78		0.6	U	0.3	I	0.2	I	NA		NA			
MW-18B	D																0.68		0.3	U	0.5		0.2	U	NA		NA			
MW-19B	D																0.44	I	0.5	I	0.3	I	0.2	U	0.51		NA		0.28	I
MW-20B	D																1.0		0.6		0.7		0.3	I	NA		NA			
MW-21B	D																1.7		0.9		0.6		0.2	I	NA		NA			
MW-22B	B																7.4		0.7		0.6		0.8		NA		NA			
MW-23B	B																0.28	U	0.3	U	0.2	U	0.2	U	NA		NA		0.22	I
MW-1C	B	10	U	3.8	U	3.8	U	2.8	U	0.3	U	0.28	U	0.3	U	MW-1A through MW-15A are monitoring wells constructed as part of the Phase 1 development	NA		NA		NA		NA		0.28	I	NA			
MW-2C	B	13		3.8	U	3.8	U	2.8	U	0.8		0.29	I	0.3	U		0.3	U	0.2	U	0.2	U	NA		0.2	U	NA			
MW-3C	B	10	U	4.1	I	4		2.8	U	0.3	U	0.28	U	0.3	U		0.3	U	0.2	U	0.3	I	NA		0.42	I	NA			
MW-4C	B	10	U	15		3.8	U	2.8	U	0.5	I	0.6		0.3	U		0.3	U	0.2	I	0.2	I	NA		0.26	I	NA			
MW-5C	B	10	U	3.8	U	3.8	U	2.8	U	0.3	U	0.28	U	0.3	U		0.3	U	0.3	I	0.2	U	NA		0.26	I	NA			
MW-6C	B	10	U	3.8	U	3.8	U	2.8	U	0.4	I	0.49	I	0.3	I		NA		NA		NA		NA		0.21	I	NA			
MW-7C	D	10	U	10		3.8	U	2.8	U	0.7		0.28	U	0.3	U		0.3	U	0.2	U	0.2	U	NA		0.33	I	NA			
MW-8C	D	10	U	3.8	U	3.8	U	2.8	U	0.3	U	0.28	U	0.3	U		0.6	U	0.2	U	0.2	U	NA		0.24	I	NA			
MW-9C	D	10	U	3.8	U	3.8	U	2.8	U	0.5	I	0.28	U	0.3	I		0.6	U	0.2	U	0.2	U	NA		0.27	I	NA			
MW-10C	D	10	U	3.8	U	3.8	U	2.8	U	1.2		0.42	I	0.4	I		0.6	U	0.2	U	0.6		NA		0.63		NA			
MW-11C	D	10	U	3.8	U	3.8	U	2.8	U	0.3	U	0.28	U	0.3	U		0.3	U	0.2	U	0.2	U	NA		0.29	I	NA			
MW-12C	D	10	U	3.8	U	3.8	U	2.8	U	0.3	U	0.28	U	0.3	I		0.3	U	0.2	U	0.2	U	NA		0.2	U	NA			
MW-13C	D	10	U	3.8	U	3.8	U	2.8	U	0.3	U	0.38		0.3	U		0.3	U	0.2	U	0.2	U	NA		0.29	I	NA			
MW-14C	D	10	U	3.8	U	3.8	U	2.8	U	1.3		0.63		0.5	I		MW-14C & MW-15C were abandoned in July 2007													
MW-15C	D	10	U	3.8	U	3.8	U	2.8	U	0.4	I	0.28	U	0.3	U															
MW-16C	D	MW- 16C through MW-23C were constructed as part of the Ph																												

Table 5-2

Ammonia (as N) Concentrations in Monitoring Wells

Third Biennial Technical Report on Water Quality

J.E.D. Solid Waste Management Facility

Well ID	Type	PH 1 Baseline Jan-04 (mg/L)	1st Event Jul-04 (mg/L)	2nd Event Jan-05 (mg/L)	3rd Event Jul-05 (mg/L)	4th Event Feb-06 (mg/L)	5th Event Jul-06 (mg/L)	6th Event Feb-07 (mg/L)	PH 2&3 Baseline Sep-07 (mg/L)	7th Event Nov-07 (mg/L)	8th Event May-08 (mg/L)	9th Event Nov-08 (µg/L)	10th Event May-09 (µg/L)	11th Event Nov-09 (µg/L)	12th Event May-10 (µg/L)	
MW-1A	B	0.51	1.2	1.1	2	1.4	0.71	1.20	MW-1A through MW-15A are monitoring wells constructed as part of the Phase 1 development	NA	NA	NA	1.7	1.2	3.68	
MW-2A	B	0.95	0.62	0.76	0.51	1.1	0.46	0.79		0.21	0.2	0.6	1.3	0.87	0.67	
MW-3A	B	0.34	2.9	0.51	5.6	1.5	0.66	1.40		1.30	3.1	6.1	6.4	8.7	6.82	
MW-4A	B	0.51	0.05 U	1.60	0.82	2.80	1.5	4.30		2.80	6.2	4.3	5.8	10	6.5 J	
MW-5A	B	4.40	3.60	5.60	3.40	6.90	7.3	6.50		8.40	7.5	14	13	9.6	7.6	
MW-6A	B	0.14	0.18	0.20	0.54	0.61	0.36	0.75		NA	NA	NA	1.3	1.6	1.9	
MW-7A	D	0.059	0.05 U	0.071	0.19	1.30	0.69	0.89		1.80	1.1	3.7	2.2	3.5	4.4	
MW-8A	D	0.047	0.14	0.44	0.55	0.77	0.71	1.00		1.60	1.4	3	3.1	4.9	5.2	
MW-9A	D	0.14	2.30	3.40	4.70	9.30	1.4	9.80		5.70	4.5	16	6.8	11	9.8	
MW-10A	D	0.14	2.70	5.40	6.20	8.90	0.08	6.40		6.00	3.8	12	8.4	7.1	7.5 J	
MW-11A	D	1.30	2.10	2.90	3.60	4.50	4.2	6.10		9.40	8.0	8.8	4.7	6.6	4.8	
MW-12A	D	0.044	0.19	0.17	0.24	0.20	0.26	0.18		0.70	1.6	0.3	1.2	0.31	0.3	
MW-13A	D	0.12	0.05 U	0.54	0.83	1.40	1.1	1.70		1.30	1.5	1.5	1.5	1.2	1.1	
MW-14A	D	0.08	0.36	1.70	1.30	1.40	1.5	1.40		MW-14A & MW-15A were abandoned in July 2007						
MW-15A	D	0.02	0.10	0.06	0.16	0.021 I	0.031 i	0.09								
MW-16A	D	MW- 16A through MW-23A were constructed as part of the Phases 2 and 3 development in Sep 2007								1.4	1.30	0.5	0.2	0.29	0.05	0.005 U
MW-17A	D									1.7	1.80	0.6	0.3	NA	NA	
MW-18A	D									0.92	0.37	0.3	1.2	NA	NA	
MW-19A	D									16	0.93	9.2	3.3	7.3	4.6	15.3
MW-20A	D									0.32	0.13	0.1	0.6	NA	NA	
MW-21A	D									0.47	0.18	0.3	0.02 U	NA	NA	
MW-22A	B									0.56	0.40	0.3	0.1	NA	NA	
MW-23A	B									0.44	0.57	0.5	0.4	1.2	1.4	2.2
MW-1B	B	0.12	0.13	0.10	0.27	0.071	0.042 i	0.12	MW-1A through MW-15A are monitoring wells constructed as part of the Phase 1 development	NA	NA	NA	0.085	NA	0.055	
MW-2B	B	0.089	0.12	0.08	0.19	0.07	0.07	0.16		0.15	0.2	0.1	0.16	NA	0.069	
MW-3B	B	0.11	0.12	0.10	0.18	0.12	0.14	0.18		0.17	0.2	0.2	0.17	NA	0.086	
MW-4B	B	0.02	0.09	0.049 I	0.31	0.046 I	0.009 I	0.08		0.04 I	2.3	6.9	2.3	NA	2.7	
MW-5B	B	0.14	0.13	0.15	0.35	0.19	0.16	0.22		0.18	0.2	0.2	0.17	NA	0.22	
MW-6B	B	0.14	0.11	0.11	0.21	0.11	0.08	0.19		NA	NA	0.1	0.19	NA	0.069	
MW-7B	D	0.085	0.20	0.08	0.15	0.093	0.08	0.18		0.15	0.2	0.2	0.16	NA	0.12	
MW-8B	D	0.11	0.05 U	0.077	0.61	0.081	0.1	0.18		0.18	0.2	0.1	0.14	NA	0.056	
MW-9B	D	0.072	0.11	0.052	10.50	0.09	0.07	0.13		0.14	0.2	0.1	0.2	NA	0.13	
MW-10B	D	0.08	0.10	0.07	0.32	0.077	0.07	0.12 J		0.13	0.2	0.1	0.12	NA	0.2	
MW-11B	D	0.03	0.15	0.051	0.37	0.013 I	0.03 I	0.08		0.06	0.1	0.1	0.083	NA	0.006 U	
MW-12B	D	0.095	0.12	0.053	1.00	0.10	0.08	0.16		0.12	0.2	0.1	0.16	NA	0.063	
MW-13B	D	0.12	0.11	0.08	0.50	0.11	0.08	0.13		0.14	0.2	0.1	0.15	NA	0.049	
MW-14B	D	0.09	0.11	0.07	0.16	0.096	0.11	0.17		MW-14B & MW-15B were abandoned in July 2007						
MW-15B	D	0.07	0.05 U	0.085	0.19	0.063	0.05	0.11								
MW-16B	D	MW- 16B through MW-23B were constructed as part of the Phases 2 and 3 development in Sep 2007								0.33	0.61	0.3	0.3	0.25	0.2	0.119
MW-17B	D									0.36	0.28	0.3	0.2	NA	NA	
MW-18B	D									0.15	0.07	0.1	0.03 I	NA	NA	
MW-19B	D									0.21	0.16	0.2	0.1	0.13	0.043	
MW-20B	D									0.59	0.54	0.3	0.2	NA	NA	
MW-21B	D									0.91	0.43	0.3	0.2	NA	NA	
MW-22B	B									3.2	0.27	0.2	0.1	NA	NA	
MW-23B	B									0.14	0.16	0.2	0.1	0.12	0.025	
MW-1C	B	0.054	0.01	0.071	0.19 I	0.057	0.049 i	0.11	MW-1A through MW-15A are monitoring wells constructed as part of the Phase 1 development	NA	NA	NA	NA	0.065	NA	
MW-2C	B	0.06	0.11	0.07	0.16	0.07	0.06	0.12		0.13	0.2	0.1	NA	0.055	NA	
MW-3C	B	0.068	0.11	0.083	0.19	0.061	0.07	0.14		0.13	0.2	0.1	NA	0.053	NA	
MW-4C	B	0.098	0.11	0.12	0.13	0.10	0.11	0.18		0.19	0.2	0.2	NA	0.089	NA	
MW-5C	B	0.066	0.08	0.088	0.11	0.084	0.06	0.12		0.10	0.2	0.1	NA	0.064	NA	
MW-6C	B	0.11	0.11	0.12	0.33	0.13	0.1	0.17		NA	NA	NA	NA	0.09	NA	
MW-7C	D	0.14	0.15	0.075	0.20	0.066	0.06	0.13		0.11	0.2	0.1	NA	0.06	NA	
MW-8C	D	0.06	0.11	0.066	0.33	0.082	0.07	0.13		0.11	0.2	0.1	NA	0.08	NA	
MW-9C	D	0.07	0.11	0.08	0.46	0.08	0.53	0.14		0.12	0.2	0.2	NA	0.3	NA	
MW-10C	D	0.11	0.12	0.09	0.22	0.088	0.08	0.15		0.15	0.2	0.2	NA	0.09	NA	
MW-11C	D	0.062	0.11	0.072	0.31	0.045 I	0.05	0.10		0.09	0.1	0.1	NA	0.04 I	NA	
MW-12C	D	0.075	0.14	0.068	0.17	0.11	0.08	0.13		0.11	0.2	0.1	NA	0.06	NA	
MW-13C	D	0.09	0.13	0.08	0.37	0.12	0.08	0.13		0.17	0.2	0.1	NA	0.08	NA	
MW-14C	D	0.09	0.13	0.08	3.00	0.08	0.11	0.19		MW-14C & MW-15C were abandoned in July 2007						
MW-15C	D	0.09	0.11	0.07	0.19	0.071	0.07	0.14								
MW-16C	D	MW- 16C through MW-23C were constructed as part of the Phases 2 and 3 development in Sep 2007								0.18	0.15	0.2	0.2	0.15	0.1	0.088
MW-17C	D									0.24	0.22	0.2	0.2	NA	NA	
MW-18C	D									0.72	0.24	0.3	0.1	NA	NA	
MW-19C	D									0.43	0.77	0.3	0.2	NA	0.05	
MW-20C	D									0.43	0.36	0.4	0.2	NA	NA	
MW-21C	D									0.56	0.34	0.3	0.2	NA	NA	
MW-22C	B									0.2	0.14	0.2	0.1	NA	NA	
MW-23C	B									0.72	0.27	0.2	0.1	NA	0.074	

Notes:

µg/L=micrograms per liter

U = Not detected at value represented

I = Value is estimated to be between method detection limit and practical quantitation limit.

NA = Not Analyzed

Well type: (B) Background well (D) Detection well

Constituent detections are shown in shaded cells (green color)

Constituent detections exceeding the GWCTL are shown in shaded cells (tan color)

MW-14A, 14B, 14C and MW-15A, 15B, 15C were decommissioned on 10 July 2007

Table 5-3
Beryllium Concentrations in Monitoring Wells
Third Biennial Technical Report on Water Quality
J.E.D. Solid Waste Management Facility

Well ID	Type	PH 1 Baseline Jan-04 (µg/L)		1st Event Jul-04 (µg/L)		2nd Event Jan-05 (µg/L)		3rd Event Jul-05 (µg/L)		4th Event Feb-06 (µg/L)		5th Event Jul-06 (µg/L)		6th Event Feb-07 (µg/L)		PH 2&3 Baseline Sep-07 (µg/L)		7th Event Nov-07 (µg/L)		8th Event May-08 (µg/L)		9th Event Nov-08 (µg/L)		10th Event May-09 (µg/L)		11th Event Nov-09 (µg/L)		12th Event May-10 (µg/L)	
MW-1A	B	1.0	U	0.74	U	0.74	U	0.3	U	0.08	U	0.084	U	0.1	U	MW-1A through MW-15A are monitoring wells constructed as part of the Phase 1 development		NA		NA		NA		0.2	U	0.2	U	0.3	U
MW-2A	B	1.0	U	0.74	U	0.74	U	0.3	U	0.50	U	0.084	U	0.1	U			0.12	I	0.20	U	0.20	I	0.2	U	0.2	U	0.3	U
MW-3A	B	1.0	U	0.74	U	0.74	U	0.3	U	0.50	U	0.084	U	0.1	U			0.084	U	0.20	U	0.20	U	0.2	U	0.2	U	0.3	U
MW-4A	B	1.0	U	0.74	U	0.74	U	0.3	U	0.08	U	0.1	I	0.1	U			0.084	U	0.20	U	0.20	U	0.2	U	0.2	U	0.3	U
MW-5A	B	1.0	U	0.74	U	0.74	U	0.3	U	0.08	U	0.11	I	0.1	U			0.084	U	0.20	U	0.20	U	0.2	U	0.2	U	0.3	U
MW-6A	B	1.0	U	0.74	U	0.74	U	0.3	U	0.08	U	0.084	U	0.1	U			NA		NA		NA		0.2	U	0.2	U	0.3	U
MW-7A	D	1.0	U	5.1		0.74	U	0.3	U	0.10	I	0.084	U	0.1	I			0.084	U	0.20	U	0.20	U	0.2	U	0.2	U	0.3	U
MW-8A	D	1.0	U	0.74	U	0.74	U	0.3	U	0.57	I	0.084	U	0.1	I			0.17	U	0.20	U	0.20	U	0.2	U	0.2	U	0.3	U
MW-9A	D	1.0	U	0.74	U	0.74	U	0.3	U	0.50	U	0.084	U	0.1	U			0.17	U	0.20	U	0.20	U	0.2	U	0.2	U	0.3	U
MW-10A	D	1.0	U	0.74	U	0.74	U	0.3	U	0.50	U	0.084	U	0.1	U			0.17	U	0.20	U	0.20	U	0.2	U	0.2	U	0.3	U
MW-11A	D	1.0	U	0.74	U	0.74	U	0.3	U	0.82	I	0.24		0.1	U			0.084	U	0.20	U	0.20	U	0.2	U	0.2	U	0.3	U
MW-12A	D	1.0	U	0.74	U	0.74	U	0.3	U	0.09	I	0.2		0.2	I			0.084	U	0.20	U	0.20	U	0.2	U	0.2	U	0.3	U
MW-13A	D	1.0	U	0.74	U	0.74	U	0.3	U	0.08	U	0.28		0.1	U			0.084	U	0.20	U	0.20	U	0.2	U	0.2	U	0.3	U
MW-14A	D	1.0	U	0.74	U	0.74	U	0.3	U	0.50	U	0.23		0.1	U			0.084	U	0.20	U	0.20	U	0.2	U	0.2	U	0.3	U
MW-15A	D	1.0	U	0.74	U	0.74	U	0.3	U	0.08	U	0.084	U	0.1	U			MW-14A & MW-15A were abandoned in July 2007											
MW-16A	D	MW- 16A through MW-23A were constructed as part of the Phases 2 and 3 development in Sep 2007														0.084	U	0.084	U	0.20	U	0.20	U	0.2	U	0.20	U	0.3	U
MW-17A	D															0.084	U	0.084	U	0.20	U	0.20	U	0.2	U	NA		NA	
MW-18A	D															0.084	U	0.084	U	0.20	U	0.20	U	0.2	U	NA		NA	
MW-19A	D															1.1		0.084	U	1.30		0.20	U	0.2	U	0.30	I	1.1	
MW-20A	D															0.084	U	0.084	U	0.20	U	0.20	U	0.2	U	NA		NA	
MW-21A	D															0.084	U	0.084	U	0.20	U	0.20	U	0.2	U	NA		NA	
MW-22A	B															0.084	U	0.084	U	0.20	U	0.20	U	0.2	U	NA		NA	
MW-23A	B															0.084	U	0.084	U	0.20	U	0.20	U	0.2	U	0.20	U	0.3	U
MW-1B	B	1.0	U	0.74	U	0.74	U	0.3	U	0.08	U	0.084	U	0.1	U	MW-1A through MW-15A are monitoring wells constructed as part of the Phase 1 development		NA		NA		NA		0.2	U	NA		0.3	U
MW-2B	B	1.0	U	0.74	U	0.74	U	0.3	U	0.50	U	0.24	I	0.1	U			0.084	U	0.20	U	0.20	U	0.2	U	NA		0.3	U
MW-3B	B	1.0	U	1.4	I	0.74	U	0.3	U	0.50	U	0.1	I	0.1	U			0.091	I	0.20	U	0.20	U	0.2	U	NA		0.3	I
MW-4B	B	1.0	U	0.74	U	0.74	U	0.3	U	0.10	I	0.14	I	0.1	U			0.084	U	0.98	I	1.6		0.2	U	NA		0.3	U
MW-5B	B	1.0	U	0.74	U	0.74	U	0.3	U	0.12	I	0.15	I	0.1	U			0.084	U	0.20	U	0.20	U	0.2	U	NA		0.3	U
MW-6B	B	1.0	U	0.74	U	0.74	U	0.77	I	0.16	I	0.11	I	0.2	I			NA		NA		NA		0.2	U	NA		0.3	U
MW-7B	D	1.0	U	2.6	I	0.74	U	0.75	I	0.19	I	0.084	U	0.1	I			0.084	U	0.20	U	0.20	U	0.2	U	NA		0.3	U
MW-8B	D	1.0	U	1.2	I	0.74	U	1.2	I	0.50	U	0.27	I	0.2	I			0.17	U	0.20	U	0.20	U	0.2	U	NA		0.3	U
MW-9B	D	1.0	U	0.74	U	0.74	U	0.7	I	0.50	U	0.13	I	0.1	I			0.17	U	0.20	U	0.20	U	0.2	U	NA		0.3	U
MW-10B	D	1.0	U	0.74	U	0.74	U	0.3	U	0.50	U	0.084	U	0.1	I			0.17	U	0.20	U	0.20	U	0.2	U	NA		0.3	U
MW-11B	D	1.0	U	0.86	I	0.74	U	0.3	U	0.09	I	0.23		0.1	U			0.084	U	0.20	U	0.20	U	0.2	U	NA		0.3	U
MW-12B	D	3.7		1.1	I	0.74	U	0.3	U	0.08	U	0.28		0.1	U			0.084	U	0.20	U	0.20	U	0.2	U	NA		0.3	U
MW-13B	D	3.1		0.74	U	0.74	U	0.84	I	0.50	U	0.25		0.1	U			0.084	U	0.20	U	0.20	U	0.2	U	NA		0.3	U
MW-14B	D	1.0	U	0.74	U	0.74	U	0.88	I	0.08	U	0.2		0.1	U			MW-14B & MW-15B were abandoned in July 2007											
MW-15B	D	1.0	U	0.74	U	0.74	U	0.3	U	0.08	U	0.084	U	0.1	U			0.14	I	0.18	I	0.39	I	0.20	U	0.2	U	0.3	U
MW-16B	D	MW- 16B through MW-23B were constructed as part of the Phases 2 and 3 development in Sep 2007														0.25	I	0.19	I	0.20	U	0.20	U	0.2	U	NA		NA	
MW-17B	D															0.25	I	0.093	I	0.20	U	0.20	U	0.2	U	NA		NA	
MW-18B	D															0.17	I	0.1	I	0.20	U	0.20	U	0.2	U	NA		0.3	U
MW-19B	D															0.69	I	0.57	I	0.20	U	0.3	I	0.2	U	NA		NA	
MW-20B	D															0.8	I	0.21	I	0.20	U	0.20	U	0.2	U	NA		NA	
MW-21B	D															2.1		0.084	U	0.20	U	0.20	U	0.2	U	NA		NA	
MW-22B	B															0.084	U	0.1	I	0.20	U	0.2	U	0.2	U	NA		0.3	U
MW-23B	B																NA		NA		NA		NA		0.2	U	NA		
MW-1C	B	1.6		0.74	U	0.74	U	0.75	I	0.11	I	0.084	U	0.1	U	MW-1A through MW-15A are monitoring wells constructed as part of the Phase 1 development		0.15	I	0.20	U	0.20	U	NA		0.2	U	NA	
MW-2C	B	2.4		0.74	U	0.74	U	0.3	U	0.50	U	0.16	I	0.1	I			0.084	U	0.20	U	0.20	U	NA		0.2	U	NA	
MW-3C	B	1.0	U	0.74	U	0.74	U	0.3	U	0.50	U	0.084	U	0.1	U			0.084	U	0.20	U	0.20	U	NA		0.2	U	NA	
MW-4C	B	1.4		4	I	0.74	U	0.3	U	0.25	I	0.42	I	0.1	U			0.11	I	0.20	U	0.20	U	NA		0.2	U	NA	
MW-5C	B	1.0	U	0.74	U	0.74	U	0.72	I	0.08	U	0.14	I	0.1	U			NA		NA		NA		NA		0.2	U	NA	
MW-6C	B	1.8		0.74	U	0.74	U	0.76	I	0.11	I	0.28	I	0.2	I			0.13	I	0.20	U	0.20	U	NA		0.2	U	NA	
MW-7C	D	2.4		2.9	I	0.74	U	0.83	I	0.24	I	0.12	I	0.2	I			0.17	U	0.20	U	0.20	U	NA		0.2	U	NA	
MW-8C	D	1.0	U	0.74	U	0.74	U	0.3	U	1.00	I	0.11	I	0.1	I			0.17	U	0.20	U	0.20	U	NA		0.2	U	NA	
MW-9C	D	1.0	U	0.74	U	0.74	U	0.73	I	0.50	U	0.084	U	0.1	I			0.17	U	0.20	U	0.20	U	NA		0.2	U	NA	
MW-10C	D	1.6		0.74	U	0.74	U	0.3	U	0.50	U	0.13	I	0.1	U			0.17	U	0.20	U	0.2							

Table 5-4

Chromium Concentrations in Monitoring Wells

Third Biennial Technical Report on Water Quality

J.E.D. Solid Waste Management Facility

Well ID	Type	PH 1 Baseline Jan-04 (µg/L)	1st Event Jul-04 (µg/L)	2nd Event Jan-05 (µg/L)	3rd Event Jul-05 (µg/L)	4th Event Feb-06 (µg/L)	5th Event Jul-06 (µg/L)	6th Event Feb-07 (µg/L)	PH 2&3 Baseline Sep-07 (µg/L)	7th Event Nov-07 (µg/L)	8th Event May-08 (µg/L)	9th Event Nov-08 (µg/L)	10th Event May-09 (µg/L)	11th Event Nov-09 (µg/L)	12th Event May-10 (µg/L)	
MW-1A	B	10 U	1.7 U	1.7 U	2.1 I	3.6	2.5	2.4	MW-1A through MW-15A are monitoring wells constructed as part of the Phase 1 development	NA	NA	NA	2.1	2	1.8 I	
MW-2A	B	10 U	1.7 U	1.7 U	1.7 I	3.4	2.8	2.6		2	3	1.9 I	1.4 I	4.5	1.8 I	
MW-3A	B	10 U	2.2 I	1.7 U	2.6 I	2.7	2.3	1.8 I		4	1.7 I	1.8 I	1.4 I	1	1.3 I	
MW-4A	B	10 U	2.4 I	2.1 I	2 I	3.3	2.6	2.8		2.8	3.7	2.1	1.5 I	2.4	2.4	
MW-5A	B	10 U	6.1 I	2.3 I	3 I	4.1	3.8	6.3		4.8	4	3.7	4.5	4.6	4.6	
MW-6A	B	10 U	1.8 I	1.7 U	1.2 I	2	3.4	1.5 I		NA	NA	NA	5.5	0.8 U	1.8 I	
MW-7A	D	10 U	170	1.7 U	0.4 U	2.4	1.5 I	1.9 I		3.3	2.6	1.8 I	6.9	1.3 I	2.1	
MW-8A	D	10 U	2.6 I	1.7 U	2.4 I	2.8	3.1	2.6		2.8 I	2.8	1.8 I	2.5	5.2	1.7 I	
MW-9A	D	10 U	3.4 I	8.5 I	2.4 I	3.7	1.9 I	6.4		2.4 I	2.5	2.8	2.2	2	2.9	
MW-10A	D	10 U	2.8 I	3 I	2.6 I	4.8	2.4	4.4		3.4 I	2.2	2.6	2.9	4.2	2.2	
MW-11A	D	10 U	5.8 I	6.2 I	5.2 I	5.6	6	6		7	5.6	4.6	7.1	2.2	2.2	
MW-12A	D	10 U	1.9 I	1.7 U	1.1 I	2.5	2.9	2.3		3.3	1.7 I	1.6 I	3.1	1.4 I	1.3 I	
MW-13A	D	10 U	1.7 U	2.2 I	2.4 I	3.6	3.8	3.2		5.9	4.6	3.3	4.8	3.2	2.5	
MW-14A	D	10 U	1.7 U	6.1 I	9.5 I	11	5.4	5.5		MW-14A & MW-15A were abandoned in July 2007						
MW-15A	D	10 U	2.2 I	1.7 U	0.4 U	3	1.4 i	1.6 I								
MW-16A	D	MW- 16A through MW-23A were constructed as part of the Phases 2 and 3 development in Sep 2007								1.9 I	2.1	2.3	1.1 I	2.7	1.1 I	1.5 I
MW-17A	D									2.0	2.5	1.8 I	1.6 I	NA	NA	NA
MW-18A	D									4.7	2	1.9 I	1.8 I	NA	NA	NA
MW-19A	D									47	3.5	45	5.5	14	14.1	38.8
MW-20A	D									1.6 I	2.9	2 I	3.5	NA	NA	NA
MW-21A	D									1.4 I	1.3 I	1.2 I	1.5 I	NA	NA	NA
MW-22A	B									2 I	2.3	1.7 I	1.9 I	NA	NA	NA
MW-23A	B									2.3	2.4	1.3 I	1.6 I	2	2.4	3.3
MW-1B	B	10 U	16	2.2 I	1.7 I	2.1	1.1 i	1.2 I	MW-1A through MW-15A are monitoring wells constructed as part of the Phase 1 development	NA	NA	NA	1.2 I	NA	0.7 I	
MW-2B	B	10 U	9.3 I	2 I	3.2 I	6.4	2.8	1.6 I		2.4	1.8 I	0.8 U	1 I	NA	0.8 I	
MW-3B	B	10 U	61	1.7 U	0.81 I	5.3	3	1.7 I		2.1	1.8 I	0.8 U	1 I	NA	0.6 I	
MW-4B	B	10 U	4.7 I	1.7 U	2.2 I	2.4	1.7 I	1.3 I		3	1.4 I	1.2 I	2.6	NA	0.8 I	
MW-5B	B	10 U	1.9 I	1.7 U	0.57 I	1.3 I	3	1.3 I		2.3	1.6 I	0.9 I	1.4 I	NA	0.7 I	
MW-6B	B	10 U	30	14	0.91 I	4.3	3.8	3.7		NA	NA	NA I	11.3	NA	1.4 I	
MW-7B	D	10 U	120	9.4 I	0.65 I	6.4	3.2	3.2		2.9	2	1 I	8.4	NA	1.2 I	
MW-8B	D	10 U	57	1.7 U	18.5	8.7	8.9	5.2		5.6	3.3	3.8	3.1	NA	4.4	
MW-9B	D	10 U	36	12	14.7 I	4.1	3.2	2.7		3.2 I	2.7	1.6 I	2	NA	1.4 I	
MW-10B	D	10 U	3.8 I	1.7 U	1 I	1.6 I	1.2 I	1.5 I		1.6 I	1.2 I	0.9 I	1.1 I	NA	2.2	
MW-11B	D	10 U	40	1.7 U	2.1 I	3.1	2.6	1.9 I		2.2	1.9 I	1.8 I	2.2	NA	2.7	
MW-12B	D	10 U	44	11	4.3 I	3.5	3.2	3.6		2.1	2.1	1.3 I	1.2 I	NA	1.4 I	
MW-13B	D	10 U	11	1.7 U	5.2 I	7.4	3.5	2.3		2.5	1.7 I	1.4 I	2	NA	1.4 I	
MW-14B	D	10 U	10	2.2 I	0.5 I	4.3	1.7	1.9 I		MW-14B & MW-15B were abandoned in July 2007						
MW-15B	D	10 U	9.1 I	1.7 U	0.74 I	3.7	1.1 i	0.94 I								
MW-16B	D	MW- 16B through MW-23B were constructed as part of the Phases 2 and 3 development in Sep 2007								8.1	11	20	2.6	1.9 I	0.8 U	1.6 I
MW-17B	D									9.3	5.5	4.3	1.1 I	NA	NA	NA
MW-18B	D									7.1	2.6	2	1.2 I	NA	NA	NA
MW-19B	D									5.3	2.4	5.3	1.4	2.2	NA	2.3
MW-20B	D									19	15	6.4	9.6	NA	NA	NA
MW-21B	D									28	8.8	4.7	2.3	NA	NA	NA
MW-22B	B									67	1.8 I	4.4	4.1	NA	NA	NA
MW-23B	B									1.8 I	4.3	2	1 I	1.9 I	NA	4.8
MW-1C	B	10 U	3.8 I	2.5 I	3 I	3.1	1.7 i	1.4 I	MW-1A through MW-15A are monitoring wells constructed as part of the Phase 1 development	NA	NA	NA	NA	0.8 U	NA	
MW-2C	B	10 U	9.7 I	1.7 U	1.5 I	1.8 I	1.8 I	1.3 I		2.2	2 I	0.8 U	NA	0.8 U	NA	
MW-3C	B	10 U	15	1.7 U	1.4 I	1.6 I	1.4 I	1.4 I		2	1.7 I	2.8	NA	0.8 U	NA	
MW-4C	B	10 U	130	2.4 I	0.95 I	7.3	9.5	2.7		1.8 I	4.9	2.9	NA	2.6	NA	
MW-5C	B	10 U	2.5 I	1.7 U	0.4 U	1.4 I	1.2 I	1.3 I		2.4	2.2	0.8 I	NA	0.8 U	NA	
MW-6C	B	10 U	3.4 I	3.3 I	1.2 I	2 I	3.1	2.1		NA	NA	NA	1 I	NA		
MW-7C	D	10 U	86	8.4 I	1.6 I	3.9	2.5	2.3		2.6	1.8 I	1 I	NA	0.8 I	NA	
MW-8C	D	10 U	1.7 U	1.7 U	0.75 I	1.8 I	1.6 I	1.7 I		4.7	1.8 I	0.9 I	NA	0.8 U	NA	
MW-9C	D	10 U	1.7 U	1.7 U	0.4 U	1.9 I	1.4 I	1.5 I		2	1.7 I	1.3 I	NA	1.3 I	NA	
MW-10C	D	10 U	4.1 I	2.2 I	1.2 I	3.9	4.6	2.2		1.8 I	2.6	1.8 I	NA	1.5 I	NA	
MW-11C	D	10 U	1.8 I	1.7 U	0.9 I	2	1.2	1.5 I		1.8 I	1.5 I	1 I	NA	0.9 I	NA	
MW-12C	D	10 U	2.3 I	1.8 I	1.2 I	2	1.2	1.3 I		1.7 I	0.85 I	1.2 I	NA	0.8 U	NA	
MW-13C	D	10 U	1.7 U	1.7 U	0.4 U	2.5	2.1	1.3 I		2.2	1.5 I	1 I	NA	0.8 U	NA	
MW-14C	D	15	12	1.7 U	0.84 I	3.4	3.1	1.8 I		MW-14C & MW-15C were abandoned in July 2007						
MW-15C	D	10 U	2.5 I	1.7 U	0.4 U	1.9 I	1.4 i	1.1 I								
MW-16C	D	MW- 16C through MW-23C were constructed as part of the Phases 2 and 3 development in Sep 2007								3.0	3.1 I	2.1	0.9 I	1.2 I	1.2 I	1.3 I
MW-17C	D									6.5	2.8	2.7	1.5 I	NA	NA	NA
MW-18C	D									32	7.5	9.1	2.1	NA	NA	NA
MW-19C	D									21	32	7	4.9	NA	4.5	NA
MW-20C	D									11	8.2	13	4.1	NA	NA	NA
MW-21C	D									18	14	6.5	3.7	NA	NA	NA
MW-22C	B									3.9	5.8	2.9	1.4 I	NA	NA	NA
MW-23C	B									29	7.1	2.6	1.8 I	NA	3.3	NA
MW-14A, 14B, 14C and MW-15A, 15B, 15C were decommissioned on 10 July 2007																

Notes:

µg/L=micrograms per liter

U = Not detected at value represented

I = Value is estimated to be between method detection limit and practical quantitation limit.

NA = Not Analyzed

Well type: (B) Background well (D) Detection well

Constituent detections are shown in shaded cells (green color)

Constituent detections exceeding the GWCTL are shown in shaded cells (tan color)

MW-14A, 14B, 14C and MW-15A, 15B, 15C were decommissioned on 10 July 2007

Table 5-5
Iron Concentrations in Monitoring Wells
Third Biennial Technical Report on Water Quality
J.E.D. Solid Waste Management Facility

Well ID	Type	PH 1 Baseline Jan-04 (mg/L)	1st Event Jul-04 (mg/L)	2nd Event Jan-05 (mg/L)	3rd Event Jul-05 (mg/L)	4th Event Feb-06 (mg/L)	5th Event Jul-06 (mg/L)	6th Event Feb-07 (mg/L)	PH 2&3 Baseline Sep-07 (mg/L)	7th Event Nov-07 (mg/L)	8th Event May-08 (mg/L)	9th Event Nov-08 (µg/L)	10th Event May-09 (µg/L)	11th Event Nov-09 (µg/L)	12th Event May-10 (µg/L)	
MW-1A	B	1.2	4	2.7	3.0	1.8	1.1	1.6	MW-1A through MW-15A are monitoring wells constructed as part of the Phase 1 development	NA	NA	NA	1.34	1.9	3.14	
MW-2A	B	4.4	1.9	3.8	1.9	4.9	10.0	13.0		3.8	11.9	6.5	11.1	16.4	9.89	
MW-3A	B	1.2	5.8	2.8	5.1	3.9	4.4	3.6		1.7	1.5	2.5	2.21	4.4	2.45	
MW-4A	B	1.4	2.9	2.6	2.6	2.3	1.9	2.1		1.9	1.7	3.4	1.69	1.85	1.27	
MW-5A	B	0.7	2	1.9	1.7	0.9	1.5	1.0		0.23	0.5	0.32	0.293	0.334	0.19	
MW-6A	B	1.2	1.6	1	2.9	2.5	1.8	2.7		NA	NA	NA	5.46	10.2	11.8	
MW-7A	D	1.2	19	0.71	1.7	4.9	3.1	2.3		5.9	5.1	5.2	2.76	7.8	6.68	
MW-8A	D	2.1	2.4	2.2	1.8	1.4	2.0	2.6		2.7	2.3	2.6	3.45	2.51	3.13	
MW-9A	D	1.9	1.9	2	1.2	1.0	2.2	1.4		2.1	1.8	0.63	1.38	0.65	0.79	
MW-10A	D	2.1	2	1.7	1.0	0.6	2.0	2.0		2.8	2.8	0.43	1.57	0.676	0.59	
MW-11A	D	39	33	35	23.6	18.0	21.2	20.0		20.3	23.3	18	16.8	13.3	13.8	
MW-12A	D	1.3	1.2	1.5	1.4	1.1	1.6	0.4		17.3	75.1	1	27.9	1.24	1.71	
MW-13A	D	2.1	6.2	13	12.8	16.0	20.3	16.0		17.3	23.0	13.8	17.8	14.1	15	
MW-14A	D	2.2	5	2.4	1.5	0.5	1.6	1.4		MW-14A & MW-15A were abandoned in July 2007						
MW-15A	D	0.59	2.5	2.1	1.9	1.9	1.2	1.2								
MW-16A	D	MW- 16A through MW-23A were constructed as part of the Phases 2 and 3 development in Sep 2007								1.2	0.7	0.9	0.19	1.35	0.131	0.18
MW-17A	D									1.4	1.3	0.8	0.4	NA	NA	NA
MW-18A	D									0.5	0.6	0.7	1	NA	NA	NA
MW-19A	D									12.5	1.0	13.7	2.2	3.32	4.33	10.3
MW-20A	D									2.1	0.5	0.2	0.89	NA	NA	NA
MW-21A	D									1.5	0.20	0.2	0.18	NA	NA	NA
MW-22A	B									1.5	1.8	1.0	0.29	NA	NA	NA
MW-23A	B									0.6	1.7	2.3	2.8	5.64	2.95	2.37
MW-1B	B	1.1	2.6	0.82	0.7	0.6	0.4	0.34	MW-1A through MW-15A are monitoring wells constructed as part of the Phase 1 development	NA	NA	NA	0.214	NA	0.23	
MW-2B	B	1.3	1.4	0.7	0.9	0.9	0.8	0.8		0.7	0.8	0.85	0.875	NA	0.95	
MW-3B	B	1.5	8.5	1	1.0	1.0	0.9	0.9		0.9	1.1	1.3	1.83	NA	0.91	
MW-4B	B	1.3	1.5	0.97	0.7	0.8	0.8	0.8		0.7	14.4	10.4	7.56	NA	3.05	
MW-5B	B	0.85	0.64	0.55	0.4	0.4	0.5	0.4		0.3	0.31	0.28	0.29	NA	0.66	
MW-6B	B	1.2	4.8	2.1	1.5	1.1	1.3	1.3		NA	NA	NA	0.965	NA	1.00	
MW-7B	D	1.7	17	1.7	1.4	1.4	1.4	1.3		1.6	1.3	1.5	1.52	NA	1.92	
MW-8B	D	1.5	6.6	1.1	2.8	1.5	1.4	0.7		1.0	0.8	1	0.859	NA	0.85	
MW-9B	D	0.93	5.8	2.5	2.1	1.0	0.9	0.8		0.9	1.0	1	0.998	NA	1.9	
MW-10B	D	1.2	0.97	0.57	0.5	0.7	0.6	0.7		0.7	0.6	0.5	0.538	NA	1.65	
MW-11B	D	1.6	5.5	0.97	0.8	0.8	0.8	0.7		0.7	0.7	0.6	0.565	NA	0.56	
MW-12B	D	1.1	6.8	2.1	1.2	1.0	0.9	1.0		1.0	1.1	1.1	1.13	NA	1.14	
MW-13B	D	1.9	2.3	0.82	1.4	1.0	0.9	0.8		0.9	0.9	0.8	0.868	NA	0.84	
MW-14B	D	1.2	1.9	0.97	1.1	0.5	0.7	0.7		MW-14B & MW-15B were abandoned in July 2007						
MW-15B	D	0.57	1.4	0.41	0.4	0.4	0.3	0.4								
MW-16B	D	MW- 16B through MW-23B were constructed as part of the Phases 2 and 3 development in Sep 2007								1.6	1.7	3.8	1.6	1.78	1.45	1.3
MW-17B	D									1.9	2.0	2.0	1.4	NA	NA	NA
MW-18B	D									1.0	0.8	0.7	0.46	NA	NA	NA
MW-19B	D									1.0	0.9	1.0	0.75	0.873	NA	0.8
MW-20B	D									2.5	2.8	2.3	1.7	NA	NA	NA
MW-21B	D									3.8	3.1	2.2	1.9	NA	NA	NA
MW-22B	B									9.3	2.5	1.5	1.7	NA	NA	NA
MW-23B	B									0.8	0.7	0.4	0.45	0.51	NA	0.49
MW-1C	B	0.65	0.69	0.51	0.6	0.5	0.5	0.4	MW-1A through MW-15A are monitoring wells constructed as part of the Phase 1 development	NA	NA	NA	NA	0.412	NA	
MW-2C	B	0.94	1.7	1.5	1.4	1.1	1.1	1.0		0.7	0.7	0.53	NA	0.489	NA	
MW-3C	B	1.2	3.1	1.4	1.4	1.6	1.4	1.2		0.9	0.8	0.73	NA	0.683	NA	
MW-4C	B	1.2	17	1.1	1.6	1.3	1.8	0.8		1.5	0.8	0.83	NA	0.984	NA	
MW-5C	B	1.1	1.9	1.7	1.2	1.1	1.2	1.1		1.3	1.0	0.92	NA	0.834	NA	
MW-6C	B	1.2	1.8	1.3	0.7	0.6	0.9	0.7		NA	NA	NA	NA	0.479	NA	
MW-7C	D	2.9	10	1.4	0.9	0.9	0.9	0.8		0.9	0.7	0.68	NA	0.624	NA	
MW-8C	D	1.3	1.7	1.1	0.9	0.9	1.1	0.9		1.0	0.8	0.85	NA	0.745	NA	
MW-9C	D	1.1	1.3	0.89	0.8	0.8	0.7	0.7		0.7	0.9	0.74	NA	0.69	NA	
MW-10C	D	1.2	1.5	0.92	0.9	0.4	1.0	0.8		0.9	0.8	0.89	NA	0.845	NA	
MW-11C	D	1.3	0.76	0.55	0.6	0.5	0.5	0.6		0.5	0.5	0.56	NA	0.496	NA	
MW-12C	D	1.4	1.2	0.87	0.9	0.7	0.6	0.6		0.7	0.7	0.7	NA	0.617	NA	
MW-13C	D	1.8	0.92	0.65	0.6	0.6	0.5	0.5		0.6	0.6	0.58	NA	0.533	NA	
MW-14C	D	2.4	2.2	1	1.2	1.1	0.9	0.8		MW-14C & MW-15C were abandoned in July 2007						
MW-15C	D	0.6	0.69	0.56	0.5	0.5	0.5	0.6								
MW-16C	D	MW- 16C through MW-23C were constructed as part of the Phases 2 and 3 development in Sep 2007								1.0	1.4	1.8	1.1	1.14	1.42	0.93
MW-17C	D									1.4	1.0	1.3	1.1	NA	NA	NA
MW-18C	D									3.8	1.7	2.0	1.3	NA	NA	NA
MW-19C	D									2.9	5.1	1.6	1.7	NA	1.11	NA
MW-20C	D									3.4	2.9	3.4	1.8	NA	NA	NA
MW-21C	D									5.5	2.5	2.7	1.9	NA	NA	NA
MW-22C	B									1.2	0.8	0.4	0.5	NA	NA	NA
MW-23C	B									2.9	0.6	0.6	0.5	NA	0.495	NA

Notes:

µg/L=micrograms per liter

U = Not detected at value represented

I = Value is estimated to be between method detection limit and practical quantitation limit.

NA = Not Analyzed

Well type: (B) Background well (D) Detection well

Constituent detections are shown in shaded cells (green color)

Constituent detections exceeding the GWCTL are shown in shaded cells (tan color)

MW-14A, 14B, 14C and MW-15A, 15B, 15C were decommissioned on 10 July 2007

Table 5-6
Lead Concentrations in Monitoring Wells
Third Biennial Technical Report on Water Quality
J.E.D. Solid Waste Management Facility

Well ID	Type	PH 1 Baseline Jan-04 (µg/L)		1st Event Jul-04 (µg/L)		2nd Event Jan-05 (µg/L)		3rd Event Jul-05 (µg/L)		4th Event Feb-06 (µg/L)		5th Event Jul-06 (µg/L)		6th Event Feb-07 (µg/L)		PH 2&3 Baseline Sep-07 (µg/L)		7th Event Nov-07 (µg/L)		8th Event May-08 (µg/L)		9th Event Nov-08 (µg/L)		10th Event May-09 (µg/L)		11th Event Nov-09 (µg/L)		12th Event May-10 (µg/L)		
MW-1A	B	10	U	1.5	U	1.5	U	1.2	U	0.12	U	0.12	U	0.12	U	MW-1A through MW-15A are monitoring wells constructed as part of the Phase 1 development		NA		NA		NA		0.2	U	0.4	I	0.3	U	
MW-2A	B	10	U	1.5	U	1.5	U	1.5	I	0.12	U	0.12	U	0.12	U			0.3	U	0.7	I	0.2	U	0.2	U	0.2	U	0.3	U	
MW-3A	B	10	U	1.5	U	1.5	U	1.7	I	0.19	I	1.5		0.12	U			0.3	U	0.2	U	0.2	U	0.2	U	0.2	U	1.3		
MW-4A	B	10	U	1.5	U	1.5	U	1.3	I	0.12	U	0.12	U	0.13	I			0.3	U	0.2	U	0.2	U	0.2	U	0.3	I	0.5	I	
MW-5A	B	5	U	2	I	2.5	I	1.4	I	0.91	I	0.67	I	1.2				1.3		1.2		1.4		1.2		2.1		2.4		
MW-6A	B	10	U	1.5	U	1.5	U	1.2	U	0.12	U	0.12	U	0.12	U			NA		NA		NA		0.2	U	0.2	U	0.3	U	
MW-7A	D	10	U	130		1.5	U	1.2	U	0.12	U	0.12	U	0.12	U			0.3	U	1.0	I	0.2	U	0.2	U	0.2	U	0.3	U	
MW-8A	D	10	U	1.5	U	1.5	U	1.8	I	0.19	I	0.13	I	0.24	I			0.6	U	0.2	U	0.2	U	0.2	U	0.2	U	0.3	U	
MW-9A	D	10	U	1.5	U	1.5	U	1.2	U	0.32	I	0.17	I	1				0.6	U	0.2	U	0.3	I	0.2	U	0.2	U	0.3	U	
MW-10A	D	10	U	1.5	U	1.5	U	1.9	I	0.73	I	0.25	I	0.91	I			0.6	U	0.2	U	0.6	I	0.2	I	0.8	I	0.4	I	
MW-11A	D	10	U	1.5	U	7.7		1.2	U	0.58	I	0.51		0.52	I			0.6	I	0.3	I	0.3	I	0.2	U	0.2	U	0.3	U	
MW-12A	D	10	U	1.5	U	1.5	U	7.4		0.12	U	0.12	U	0.7	I			0.3	U	0.2	U	0.2	U	0.2	U	0.2	U	0.3	U	
MW-13A	D	10	U	1.5	U	2.7	I	1.2	U	0.12	U	0.12	U	0.12	U			0.3	U	0.2	U	0.2	U	0.2	I	0.2	U	0.3	U	
MW-14A	D	10	U	1.5	U	1.7	I	1.4	I	5.6		0.87		0.86	I		MW-14A & MW-15A were abandoned in July 2007													
MW-15A	D	10	U	1.5	U	1.5	U	1.2	U	0.12	U	0.14	I	0.12	U															
MW-16A	D	MW- 16A through MW-23A were constructed as part of the Phases 2 and 3 development in Sep 2007														0.3		U	1.8		1.1		0.2	I	0.7	I	0.5	I	0.6	I
MW-17A	D															0.3		U	0.3	U	0.3	I	0.2	U	NA		NA		NA	
MW-18A	D															1.7			0.7	I	1.0		2.1		NA		NA		NA	
MW-19A	D															19			0.3	U	11.0		1	I	7.3		3.7		13.5	
MW-20A	D															0.3		U	1.0	I	0.9	I	1.5		NA		NA		NA	
MW-21A	D															0.3		U	0.4	I	0.2	I	0.6	I	NA		NA		NA	
MW-22A	B															0.3		U	0.3	U	0.2	U	0.3	I	NA		NA		NA	
MW-23A	B															0.3		U	0.3	U	0.2	U	0.2	U	0.4	I	0.2	U	1.2	
MW-1B	B	5	U	12		1.6	I	1.8	I	0.14	I	0.12	U	0.12	U	MW-1A through MW-15A are monitoring wells constructed as part of the Phase 1 development		NA		NA		0.2	U	NA		0.3	U			
MW-2B	B	5	U	5.2		1.7	I	6.1		3		2.5		2.4				0.5	I	0.5	I	0.2	U	0.2	U	NA		0.3	U	
MW-3B	B	5	U	43		1.5	U	1.6	I	4.4		2.1		0.88	I			0.4	I	1.8		0.2	U	0.2	U	NA		0.3	U	
MW-4B	B	5	U	1.6	I	1.5	U	2.6	I	0.5	I	0.63	I	0.12	U			0.3	U	0.2	U	0.2	U	0.2	U	NA		0.3	U	
MW-5B	B	5	U	1.5	U	1.5	U	1.7	I	0.12	U	0.12	U	0.12	U			0.3	U	0.2	U	0.2	U	0.2	U	NA		0.3	U	
MW-6B	B	10	U	24		9.6		6.9		1.5		1.8		1.9				NA		NA		NA		2.5		NA		0.3	U	
MW-7B	D	5	U	100		7.1		2.6	I	3.1		1.8		1.5				1.1		0.6	I	0.2	I	4.2		NA		0.3	U	
MW-8B	D	5	U	39		1.5	U	20		11		13		5.6				5.3		3.2		5.7		3.9		NA		3.4		
MW-9B	D	5	U	28		10		8		1.7		1.5		1.7				0.8	I	1.3		0.8	I	1	I	NA		0.4	I	
MW-10B	D	5	U	1.5	U	1.5	U	3.9	I	0.15	I	0.22	I	0.12	I			0.6	U	0.2	U	0.2	U	0.2	U	NA		0.3	U	
MW-11B	D	10	U	24		1.5	U	1.6	I	0.82	I	1.1		0.2	I			0.7	I	0.4	I	0.7	I	0.7	I	NA		0.8	I	
MW-12B	D	5	U	38		10		5		11		2.9		3.7				1.1		1.3		1		0.4	I	NA		0.4	I	
MW-13B	D	5	U	7.4		1.5	U	5.7		2.8		2.9		1.4				2.0		0.9	I	1	I	1.6		NA		1.4		
MW-14B	D	5	U	8.9		1.5	U	1.2	I	1.6		0.47		1		MW-14B & MW-15B were abandoned in July 2007														
MW-15B	D	10	U	7.2		1.5	U	1.3	I	0.34	I	0.12	U	0.12	U															
MW-16B	D	MW- 16B through MW-23B were constructed as part of the Phases 2 and 3 development in Sep 2007															7.6		14.0		28		3.6		1.5		2.4		1	I
MW-17B	D																12		6.3		3.0		0.4	I	NA		NA		NA	
MW-18B	D																3.4		0.6	I	0.6	I	0.4	I	NA		NA		NA	
MW-19B	D																5.2		2.2		6.1		1.3		2.5		NA		1.8	
MW-20B	D																15		19.0		4.3		8.3		NA		NA		NA	
MW-21B	D																21		7.8		2.6		1.4		NA		NA		NA	
MW-22B	B																80		0.3	U	3.2		4		NA		NA		NA	
MW-23B	B																0.3	U	0.3	I	0.2	U	0.3	I	0.2	U	0.3	I	0.2	U
MW-1C	B	5	U	1.5	U	1.5	U	1.8	I	0.22	I	0.18	I	0.14	I	MW-1A through MW-15A are monitoring wells constructed as part of the Phase 1 development		NA		NA		NA		NA		0.2	U	NA		
MW-2C	B	5	U	2.1	I	1.5	U	1.2	U	0.14	I	0.89	I	0.2	I			0.3	U	0.3	I	0.2	U	NA		0.2	U	NA		
MW-3C	B	5	U	3.8	I	1.6	I	1.4	I	0.13	I	0.12	I	0.14	I			0.3	U	0.2	U	2.4		NA		0.2	U	NA		
MW-4C	B	5	U	19		1.5	U	2.7	I	0.91	I	1.5		0.45	I			0.3	U	0.3	I	0.4	I	NA		0.2	U	NA		
MW-5C	B	5	U	1.5	U	1.5	U	1.3	I	0.12	U	0.12	U	0.17	I			0.3	I	0.2	U	0.2	U	NA		0.2	U	NA		
MW-6C	B	10	U	1.5	U	2.3	I	1.2	U	0.23	I	0.49	I	0.36	I			NA		NA		NA		NA		0.2	U	NA		
MW-7C	D	5	U	60		4.2	I	2.4	I	1.7		1.4		1.4				1.6		0.5	I	0.5	I	NA		0.4	I	NA		
MW-8C	D	5	U	1.5	U	1.5	U	1.4	I	0.15	I	0.25	I	0.25	I			0.6	U	0.2	U	0.2	U	NA		0.2	U	NA		
MW-9C	D	5	U	1.5	U	1.5	U	1.2	U	0.12	I	0.14	I	0.12	U			0.6	U	0.3	I	0.2	U	NA		0.2	U	NA		
MW-10C	D	5	U	1.5	U	1.5	U	1.9	I	0.85	I	0.88	I	0.54	I			0.6	U	0.2	U	0.3	I	NA		0.3	I	NA		
MW-11C	D	5	U	1.5	U	1.5	U	1.5	I	2.7		0.12	U	0.33	I			0.3	U	0.2	U	0.2	U	NA		0.2	U	NA		
MW-12C	D	5	U	1.5	U	1.5	U	1.2	U	0.13	I	0.12	U	0.12	I			0.3	U	0.2	U	0.9	I	NA		0.2	U	NA		
MW-13C	D	10	U	1.5	U	1.5	U	1.2	U	0.2	I	0.12	I	0.18	I			0.3	U	0.3	I	0.2	U	NA		0.2	U	NA		
MW-14C	D	10	U	3.8	I	1.5	U	1.2	U	1.4		0.94		0.49	I	MW-14C & MW-15C were abandoned in July 2007														
MW-15C	D	10	U	1.5	U	1.5	U	1.2	I	0.12	U	0.28	I	0.12	U															
MW-16C	D	MW- 16C through MW-23C were constructed as part of the Phases 2 and 3 development in Sep 2007															0.65	I	0.7	I	0.2	I	0.2	U	0.2	U	0.4	I	0.3	U
MW-17C	D																1.7		0.4	I	0.2	U	0.2	U	NA		NA		NA	
MW-18C	D																13		2.2		1.5		0.4	I	NA		NA		NA	
MW-19C	D																5.1		6.5		1.4		0.7	I	NA		0.7	I	NA	
MW-20C	D																3.2		2.5		3.1		0.7	I	NA		NA		NA	
MW-21C	D																4.8		1.3		1.3		1	I	NA		NA		NA	
MW-22C	B																0.3	U	0.3	U	0.2	U	0.2	U	NA		NA		NA	
MW-23C	B																4.3		0.7	I	0.2	I	0.2	I	0.2	I	NA		0.3	I

Notes:
µg/L=micrograms per liter
U = Not detected at value represented
I = Value is estimated to be between method detection limit and practical quantitation limit.
NA = Not Analyzed
Well type: (B) Background well (D) Detection well
Constituent detections are shown in shaded cells (green color)
Constituent detections exceeding the GWCTL are shown in shaded cells (tan color)
MW-14A, 14B, 14C and MW-15A, 15B, 15C were decommissioned on 10 July 2007

Table 5-7
Toluene Concentrations in Monitoring Wells
Third Biennial Technical Report on Water Quality
J.E.D. Solid Waste Management Facility

Well ID	Type	PH 1 Baseline Jan-04 (µg/L)	1st Event Jul-04 (µg/L)	2nd Event Jan-05 (µg/L)	3rd Event Jul-05 (µg/L)	4th Event Feb-06 (µg/L)	5th Event Jul-06 (µg/L)	6th Event Feb-07 (µg/L)	PH 2&3 Baseline Sep-07 (µg/L)	7th Event Nov-07 (µg/L)	8th Event May-08 (µg/L)	9th Event Nov-08 (µg/L)	10th Event May-09 (µg/L)	11th Event Nov-09 (µg/L)	12th Event May-10 (µg/L)	
MW-1A	B	1 U	1.9	3.5	2.2	0.9 I	0.57 J	0.21 I	MW-1A through MW-15A are monitoring wells constructed as part of the Phase 1 development	NA	NA	NA	0.52 U	0.52 U	1.8	
MW-2A	B	100	1.8	0.51 U	0.5 U	0.15 I	0.13 U	0.13 U		0.13 U	0.13 U	0.54 I	0.52 U	0.52 U	0.52 U	0.47 U
MW-3A	B	17	7.6	0.51 U	0.52 I	0.13 U	0.13 U	0.13 U		0.13 U	0.13 U	0.77 I	0.52 U	0.52 U	0.52 U	0.47 U
MW-4A	B	1.7	190	0.51 U	0.5 U	0.13 U	0.13 U	0.13 U		0.13 U	0.13 U	0.15 I	0.52 U	0.52 U	0.52 U	1.3
MW-5A	B	76	170	0.51 U	0.69 I	0.13 U	0.13 U	0.13 U		0.13 U	0.13 U	0.18 I	0.52 U	0.52 U	0.52 U	2.4 U
MW-6A	B	1.4	1.8	0.51 U	0.5 U	0.49 I	0.47 I	0.52 I		0.13 U	0.13 U	NA	NA	0.52 U	0.52 U	0.47 U
MW-7A	D	2.8	0.51 U	0.51 U	0.51 I	0.13 U	0.13 U	0.13 U		0.13 U	0.14 U	0.14 U	0.52 U	0.52 U	0.52 U	0.47 U
MW-8A	D	7.8	0.51 U	0.51 U	0.5 U	0.22 I	0.13 U	0.14 I		0.13 U	0.14 U	0.14 U	0.52 U	0.52 U	0.52 U	0.47 U
MW-9A	D	1.2	0.51 U	0.51 U	0.5 U	0.22 I	0.13 U	2.6		0.33 I	0.45 I	1.6	0.57 I	1.4	1.3	1.3
MW-10A	D	1 U	24	0.51 U	0.5 U	0.13 U	0.13 U	0.22 I		0.29 I	0.41 I	0.52 U	0.52 U	1.3	0.47 U	0.47 U
MW-11A	D	2.2	0.51 U	0.51 U	0.5 U	0.13 U	0.13 U	0.14 I		0.13 U	1.2	0.52 U	0.52 U	0.52 U	0.47 U	0.47 U
MW-12A	D	2.3	0.51 U	0.51 U	0.5 U	0.3 I	0.13 U	0.13 U		0.13 U	0.14 U	0.52 U	0.52 U	0.52 U	0.47 U	0.47 U
MW-13A	D	1.3	1.8	0.51 U	0.5 U	0.5 I	0.13 U	0.13 U		0.3 I	0.14 U	0.52 U	0.52 U	0.52 U	0.47 U	0.47 U
MW-14A	D	1 U	7.1	14	3.2	0.13 U	0.13 U	0.13 U		0.13 U	0.14 U	0.52 U	0.52 U	0.52 U	0.47 U	0.47 U
MW-15A	D	1 U	0.51 U	0.51 U	0.5 U	0.13 U	0.13 U	0.13 U		MW-14A & MW-15A were abandoned in July 2007						
MW-16A	D	MW- 16A through MW-23A were constructed as part of the Phases 2 and 3 development in Sep 2007								0.13 U	8.6	2.4	0.52 U	0.52 U	0.47 U	0.47 U
MW-17A	D									0.13 U	1.6	0.14 U	0.52 U	NA	NA	
MW-18A	D									0.13 U	0.13 U	0.14 U	0.52 U	NA	NA	
MW-19A	D									0.71 I	0.13 U	0.65 I	0.52 U	0.52 U	2.4 U	
MW-20A	D									0.13 U	0.13 U	0.14 U	0.52 U	NA	NA	
MW-21A	D									0.13 U	0.13 U	0.14 U	0.52 U	NA	NA	
MW-22A	B									0.13 U	0.13 U	2.7	0.52 U	NA	NA	
MW-23A	B									0.13 U	0.13 U	0.76 I	0.52 U	0.52 U	0.47 U	
MW-1B	B	1 U	4.8	2.2	0.79 I	0.13 U	0.13 U	0.13 U	MW-1A through MW-15A are monitoring wells constructed as part of the Phase 1 development	NA	NA	NA	0.52 U	NA	0.47 U	
MW-2B	B	1 U	4.5	1.3	2.7	0.13 U	0.13 U	0.13 U		0.13 U	0.14 U	0.52 U	0.52 U	NA	0.47 U	
MW-3B	B	1 U	2.9	0.51 U	0.5 U	0.13 U	0.13 U	0.13 U		0.13 U	0.14 U	0.52 U	0.52 U	NA	0.47 U	
MW-4B	B	1 U	0.51 U	0.51 U	0.5 U	0.13 U	0.13 U	0.13 U		0.13 U	0.15 I	0.52 U	0.52 U	NA	0.47 U	
MW-5B	B	1 U	8.8	0.51 U	0.5 U	0.13 U	0.13 U	0.13 U		0.13 U	0.14 U	0.52 U	0.52 U	NA	0.47 U	
MW-6B	B	1 U	0.51 U	5.3	0.66 I	0.13 U	0.13 U	0.13 U		NA	NA	NA	0.52 U	NA	0.47 U	
MW-7B	D	1 U	8.5	0.51 U	0.5 U	0.13 U	0.13 U	0.13 U		0.13 U	0.14 U	0.52 U	0.52 U	NA	0.47 U	
MW-8B	D	1 U	7.8	0.51 U	3.3	0.62 I	0.55 I	0.18 I		0.13 U	0.14 U	0.52 U	0.52 U	NA	0.47 U	
MW-9B	D	1.2	8.1	1.6	0.5 U	0.16 I	0.13 U	0.13 U		0.13 U	0.14 U	0.52 U	0.52 U	NA	0.47 U	
MW-10B	D	1 U	0.51 U	0.51 U	0.5 U	0.13 U	0.13 U	0.16 I		0.13 U	0.19 I	0.52 U	0.52 U	NA	0.47 U	
MW-11B	D	1	0.51 U	0.51 U	0.5 U	0.13 U	0.13 U	0.18 I		0.13 U	0.14 U	0.52 U	0.52 U	NA	0.47 U	
MW-12B	D	1 U	1.7	1.5	1.1	0.3 I	0.13 U	0.13 U		0.13 U	0.14 U	0.52 U	0.52 U	NA	0.47 U	
MW-13B	D	1 U	0.51 U	0.51 U	0.5 U	0.35 I	0.13 U	0.13 U		0.13 U	0.14 U	0.52 U	0.52 U	NA	0.47 U	
MW-14B	D	1 U	2.1	0.51 U	0.5 U	0.13 U	0.13 U	0.13 U		0.13 U	0.14 U	0.52 U	0.52 U	NA	0.47 U	
MW-15B	D	1 U	0.51 U	0.51 U	0.5 U	0.13 U	0.13 U	0.13 U		MW-14B & MW-15B were abandoned in July 2007						
MW-16B	D	MW- 16B through MW-23B were constructed as part of the Phases 2 and 3 development in Sep 2007								0.13 U	0.19 I	0.51 I	0.52 U	0.52 U	0.47 U	0.47 U
MW-17B	D									0.13 U	0.48 I	5.8	0.52 U	NA	NA	
MW-18B	D									0.13 U	0.13 U	8.9	16	NA	NA	
MW-19B	D									0.13 U	2.9	1.7	2	0.81 I	0.47 U	
MW-20B	D									0.1 U	0.13 U	0.14 U	0.52 U	NA	NA	
MW-21B	D									0.1 U	3	0.68 I	0.52 U	NA	NA	
MW-22B	B									0.1 U	3.7	1.3	0.52 U	NA	NA	
MW-23B	B									0.13 U	0.35 I	1.1	0.58 I	0.52 U	0.47 U	
MW-1C	B	1 U	0.51 U	0.51 U	0.5 U	0.13 U	0.13 U	0.13 U	MW-1A through MW-15A are monitoring wells constructed as part of the Phase 1 development	NA	NA	NA	NA	0.52 U	NA	
MW-2C	B	1 U	0.51 U	0.51 U	0.5 U	0.13 U	0.13 U	0.13 U		0.13 U	0.14 U	0.52 U	NA	0.52 U	NA	
MW-3C	B	1 U	0.51 U	0.51 U	0.5 U	0.13 U	0.13 U	0.13 U		0.13 U	0.14 U	0.52 U	NA	0.52 U	NA	
MW-4C	B	1 U	0.51 U	0.51 U	0.5 U	0.13 U	0.13 U	0.13 U		0.13 U	0.14 U	0.52 U	NA	0.52 U	NA	
MW-5C	B	1 U	0.51 U	0.51 U	0.5 U	0.13 U	0.13 U	0.13 U		0.13 U	0.14 U	0.52 U	NA	0.52 U	NA	
MW-6C	B	1 U	0.51 U	0.51 U	0.5 U	0.13 U	0.13 U	0.2 I		NA	NA	NA	NA	0.52 U	NA	
MW-7C	D	1 U	0.51 U	0.51 U	0.5 U	0.13 U	0.13 U	0.13 U		0.13 U	0.14 U	0.52 U	NA	0.52 U	NA	
MW-8C	D	1 U	0.51 U	0.51 U	0.5 U	0.19 I	0.13 U	0.15 I		0.13 U	0.14 U	0.52 U	NA	0.52 U	NA	
MW-9C	D	1 U	0.51 U	0.51 U	0.5 U	0.21 I	0.13 U	0.17 I		0.13 U	0.16 I	0.52 U	NA	0.52 U	NA	
MW-10C	D	1 U	0.51 U	0.51 U	0.5 U	0.13 U	0.13 U	0.13 U		0.13 U	0.14 U	0.52 U	NA	0.52 U	NA	
MW-11C	D	1 U	0.51 U	0.51 U	0.5 U	0.13 U	0.13 U	0.21 I		0.23 I	0.14 U	0.52 U	NA	0.52 U	NA	
MW-12C	D	1 U	0.51 U	0.51 U	0.5 U	0.27 I	0.13 U	0.13 U		0.13 U	0.14 U	0.52 U	NA	0.52 U	NA	
MW-13C	D	1 U	0.51 U	0.51 U	0.5 U	0.36 I	0.13 U	0.13 U		0.13 U	0.14 U	0.52 U	NA	0.52 U	NA	
MW-14C	D	1 U	0.51 U	0.51 U	0.5 U	0.13 U	0.13 U	0.13 U		MW-14C & MW-15C were abandoned in July 2007						
MW-15C	D	1 U	0.51 U	0.51 U	0.5 U	0.13 U	0.13 U	0.13 U		0.13 U	6.6	10	5.2	1.7	0.81 I	1.1
MW-16C	D	MW- 16C through MW-23C were constructed as part of the Phases 2 and 3 development in Sep 2007								0.13 U	2.6	8.7	0.52 U	NA	NA	
MW-17C	D									0.13 U	0.13 U	0.14 U	0.52 U	NA	NA	
MW-18C	D									0.13 U	0.13 U	0.14 U	0.52 U	NA	NA	
MW-19C	D									0.13 U	0.13 U	0.14 U	0.52 U	0.52 U	NA	
MW-20C	D									0.13 U	0.13 U	0.14 U	0.52 U	NA	NA	
MW-21C	D									0.13 U	0.13 U	0.14 U	0.52 U	NA	NA	
MW-22C	B									0.13 U	1.3	2.5	0.52 U	NA	NA	
MW-23C	B									0.13 U	0.51 I	0.14 U	0.52 U	NA	NA	

Notes:
µg/L=micrograms per liter
U = Not detected at value represented
I = Value is estimated to be between method detection limit and practical quantitation limit.
NA = Not Analyzed
Well type: (B) Background well (D) Detection well
Constituent detections are shown in shaded cells (green color)
Constituent detections exceeding the GWCTL are shown in shaded cells (tan color)
MW-14A, 14B, 14C and MW-15A, 15B, 15C were decommissioned on 10 July 2007

Table 5-8
Total Dissolved Solids Concentrations in Monitoring Wells
Third Biennial Technical Report on Water Quality
J.E.D. Solid Waste Management Facility

Well ID	Type	PH 1 Baseline Jan-04 (mg/L)	1st Event Jul-04 (mg/L)	2nd Event Jan-05 (mg/L)	3rd Event Jul-05 (mg/L)	4th Event Feb-06 (mg/L)	5th Event Jul-06 (mg/L)	6th Event Feb-07 (mg/L)	PH 2&3 Baseline Sep-07 (mg/L)	7th Event Nov-07 (mg/L)	8th Event May-08 (mg/L)	9th Event Nov-08 (µg/L)	10th Event May-09 (µg/L)	11th Event Nov-09 (µg/L)	12th Event May-10 (µg/L)	
MW-1A	B	110	94	6	5900	69	67	71	MW-1A through MW-15A are monitoring wells constructed as part of the Phase 1 development	NA	NA	NA	61	66	73	
MW-2A	B	140	50	10	105	65	83	88		61	80	85	75	87	85	
MW-3A	B	140	160	56	208	100	140	140		150	180	300	250	380	280	
MW-4A	B	92	120	64	146	104	86	97		110	120	200	150	140	150	
MW-5A	B	120	120	130	166	130	190	187		190	200	210	210	290	330	
MW-6A	B	96	60	36	86	53	47	57		NA	NA	NA	120	110	120	
MW-7A	D	140	1800	34	60	100	66	75		69	69	96	94	58	89	
MW-8A	D	190	76	26	119	87	85	130		150	110	190	140	150	160	
MW-9A	D	160	82	52	129	110	70	140		95	86	160	100	140	140	
MW-10A	D	88	110	48	181	95	93	81		97	82	140	120	130	120	
MW-11A	D	270	180	110	234	140	210	190		180	190	200	170	210	260	
MW-12A	D	68	48	5	66	74	67	67		100	180	73	130	72	78	
MW-13A	D	240	90	100	217	109	130	120		110	130	110	120	110	110	
MW-14A	D	80	110	190	250	170	200	135		MW-14A & MW-15A were abandoned in July 2007						
MW-15A	D	140	56	48	117	54	59	70								
MW-16A	D	MW- 16A through MW-23A were constructed as part of the Phases 2 and 3 development in Sep 2007								79	110	100	52	72	47	16
MW-17A	D									80	99	95	52	NA	NA	NA
MW-18A	D									100	79	86	87	NA	NA	NA
MW-19A	D									840	100	870	230	340	350	860
MW-20A	D									75	170	150	130	NA	NA	NA
MW-21A	D									73	110	81	73	NA	NA	NA
MW-22A	B									110	100	78	67	NA	NA	NA
MW-23A	B									130	110	97	130	200	220	117
MW-1B	B	280	190	48	68	31	25	32	MW-1A through MW-15A are monitoring wells constructed as part of the Phase 1 development	NA	NA	NA	25	NA	34	
MW-2B	B	610	110	20	96	39	41	42		37	40	46	37	NA	27	
MW-3B	B	530	530	260	120	53	66	57		50	64	61	82	NA	57	
MW-4B	B	140	84	68	69	60	60	53		81	520	660	280	NA	220	
MW-5B	B	64	42	22	57	41	37	41		42	33	51	51	NA	89	
MW-6B	B	710	270	130	197	47	130	54		NA	NA	NA	49	NA	49	
MW-7B	D	500	1000	90	122	52	59	72		69	59	68	75	NA	91	
MW-8B	D	830	600	150	259	120	140	59		86	55	110	100	NA	67	
MW-9B	D	80	260	120	71	65	55	49		61	69	67	95	NA	89	
MW-10B	D	140	58	40	53	37	46	53		59	60	57	50	NA	97	
MW-11B	D	120	530	36	96	57	83	74		69	66	63	63	NA	52	
MW-12B	D	980	930	200	80	63	86	80		56	60	60	74	NA	59	
MW-13B	D	2000	86	56	86	61	58	57		59	49	46	49	NA	56	
MW-14B	D	160	130	78	77	36	44	52		MW-14B & MW-15B were abandoned in July 2007						
MW-15B	D	40	140	74	55	21	29	37								
MW-16B	D	MW- 16B through MW-23B were constructed as part of the Phases 2 and 3 development in Sep 2007								130	180	190	65	58	59	44
MW-17B	D									160	110	88	65	NA	NA	NA
MW-18B	D									110	81	56	69	NA	NA	NA
MW-19B	D									140	87	110	34	80	NA	87
MW-20B	D									260	210	95	160	NA	NA	NA
MW-21B	D									310	120	73	56	NA	NA	NA
MW-22B	B									810	67	55	62	NA	NA	NA
MW-23B	B									47	48	42	32	46	NA	45
MW-1C	B	120	70	46	78	32	38	37	MW-1A through MW-15A are monitoring wells constructed as part of the Phase 1 development	NA	NA	NA	NA	45	NA	
MW-2C	B	250	74	14	39	36	33	41		44	28	34	NA	31	NA	
MW-3C	B	290	130	5	63	45	37	40		35	36	46	NA	37	NA	
MW-4C	B	710	490	130	186	72	95	77		100	110	90	NA	88	NA	
MW-5C	B	210	56	26	71	42	52	53		59	54	60	NA	55	NA	
MW-6C	B	550	44	42	63	43	50	43		NA	NA	NA	NA	34	NA	
MW-7C	D	2500	590	34	38	41	51	54		59	38	45	NA	37	NA	
MW-8C	D	44	50	260	53	53	46	43		57	45	44	NA	35	NA	
MW-9C	D	80	50	44	43	62	42	41		50	48	68	NA	93	NA	
MW-10C	D	320	50	40	67	42	58	44		56	65	39	NA	43	NA	
MW-11C	D	170	100	82	100	61	85	69		85	76	79	NA	62	NA	
MW-12C	D	160	52	5	42	41	38	42		43	33	41	NA	33	NA	
MW-13C	D	140	82	42	47	50	47	51		32	47	41	NA	40	NA	
MW-14C	D	200	120	72	38	31	55	57		MW-14C & MW-15C were abandoned in July 2007						
MW-15C	D	80	54	46	62	42	50	53								
MW-16C	D	MW- 16C through MW-23C were constructed as part of the Phases 2 and 3 development in Sep 2007								75	81	69	67	65	71	69
MW-17C	D									100	94	84	78	NA	NA	NA
MW-18C	D									220	91	86	73	NA	NA	NA
MW-19C	D									150	120	94	72	NA	82	NA
MW-20C	D									100	93	110	75	NA	NA	NA
MW-21C	D									97	83	90	85	NA	NA	NA
MW-22C	B									330	330	310	300	NA	NA	NA
MW-23C	B									110	74	69	54	NA	69	NA

Notes:
µg/L=micrograms per liter
U = Not detected at value represented
I = Value is estimated to be between method detection limit and practical quantitation limit.
NA = Not Analyzed
Well type: (B) Background well (D) Detection well
Constituent detections are shown in shaded cells (green color)
Constituent detections exceeding the GWCTL are shown in shaded cells (tan color)
MW-14A, 14B, 14C and MW-15A, 15B, 15C were decommissioned on 10 July 2007

Table 5-9

Vanadium Concentrations in Monitoring Wells

Third Biennial Technical Report on Water Quality

J.E.D. Solid Waste Management Facility

Well ID	Type	PH 1 Baseline Jan-04 (µg/L)	1st Event Jul-04 (µg/L)	2nd Event Jan-05 (µg/L)	3rd Event Jul-05 (µg/L)	4th Event Feb-06 (µg/L)	5th Event Jul-06 (µg/L)	6th Event Feb-07 (µg/L)	PH 2&3 Baseline Sep-07 (µg/L)	7th Event Nov-07 (µg/L)	8th Event May-08 (µg/L)	9th Event Nov-08 (µg/L)	10th Event May-09 (µg/L)	11th Event Nov-09 (µg/L)	12th Event May-10 (µg/L)	
MW-1A	B	10 U	2.5 U	2.5 U	1.7 I	4.1 U	0.18 U	1.4 I	MW-1A through MW-15A are monitoring wells constructed as part of the Phase 1 development	NA	NA	NA	1.2 U	1.9 I	1.3 I	
MW-2A	B	10 U	2.5 U	2.5 U	2.1 I	4.1 U	1.3 I	4.8 I		0.5 I	2.0 U	1.5 I	1.2 U	1.6 I	2 I	
MW-3A	B	10 U	2.8 I	2.5 U	3.5 I	4.1 U	2.6	0.18 U		0.5 I	2.0 U	2.6 I	1.2 U	2.3 I	1.5 I	
MW-4A	B	10 U	2.5 U	2.5 U	1.9 I	4.1 U	0.18 U	1.2 I		1.4 I	2.5 I	1.7 I	1.2 U	3 I	1.6 I	
MW-5A	B	10 U	3.9 I	2.5 U	1.8 I	4.1 U	1.6 I	7.2		2.2	2.0 U	1.9 I	1.8 I	5.1	3.1 I	
MW-6A	B	10 U	2.5 U	2.5 U	2 I	4.1 U	1.6 I	0.18 U		NA	NA	NA	5.3	1.3 I	1.6 I	
MW-7A	D	10 U	270	2.5 U	0.5 U	4.1 U	0.18 U	6.8		0.7 I	2.0 U	1.2 U	6.3	1.5 I	1.9 I	
MW-8A	D	10 U	3.1 I	2.5 U	3 I	4.1 U	1.3 I	7		1.9 I	2.7 I	2.8 I	3.5 I	2.4 I	3.0 I	
MW-9A	D	10 U	4.6 I	2.7 I	2.8 I	4.1 U	3.4	8.3		2.8 I	2.2 I	1.7 I	2.5 I	1.4 I	2.2 I	
MW-10A	D	10 U	4.4 I	3.4 I	2.3 I	4.1 I	2.4	5		2.8 I	2.3 I	1.2 U	4.2 I	2.4 I	1.4 I	
MW-11A	D	14	2.5 U	2.5 U	5.2 I	8.8 I	4.2	5.8		5.5	5.0	3.9 I	3.7 I	2.1 I	3.8 I	
MW-12A	D	10 U	2.8 I	2.5 U	2.4 I	4.1 U	1.8	1.7 I		1.5 I	2.0 U	1.4 I	1.2 I	2 I	1.5 I	
MW-13A	D	10 U	2.5 U	3.1 I	4.8 I	6.2 I	4.8	5.1		3.5	4.4 I	3.7 I	4.3 I	3 I	3.6 I	
MW-14A	D	10 U	2.5 U	7.5 I	7.6 I	12	4.4	9.4		MW-14A & MW-15A were abandoned in July 2007						
MW-15A	D	10 U	2.5 U	2.5 U	1.1 I	4.1 U	0.18 U	1.1 I								
MW-16A	D	MW- 16A through MW-23A were constructed as part of the Phases 2 and 3 development in Sep 2007								1.7 I	7.9	5.2	6.2	5	7	10
MW-17A	D									1.4 I	2.9	4.2 I	6	NA	NA	NA
MW-18A	D									4.7	2.6	2.0 U	4.9 I	NA	NA	NA
MW-19A	D									43	2.8	40.0	8.4	15.9	15.3	39.3
MW-20A	D									0.46 I	7.1	4.9 I	6.2	NA	NA	NA
MW-21A	D									0.74 I	0.2 U	2.0 U	4.3 I	NA	NA	NA
MW-22A	B									0.18 U	0.4 I	2.0 U	2.8 I	NA	NA	NA
MW-23A	B									2.8	2.0	2.0 U	1.5 I	1.5 I	3.9 I	4.7 I
MW-1B	B	10 U	18	3.1 I	1.8 I	4.1 U	0.18 U	0.18 U	MW-1A through MW-15A are monitoring wells constructed as part of the Phase 1 development	NA	NA	NA	1.2 U	NA	1.2 U	
MW-2B	B	35	14	5.5 I	5.9 I	8.4 I	1.9 I	4.4 I		2.1	2.0 U	1.2 U	1.2 U	NA	1.2 U	
MW-3B	B	26	81	12	8 I	5.1 I	3.4	2.1 I		1.7 I	2.0 U	1.2 U	1.2 U	NA	1.2 U	
MW-4B	B	10 U	5.6 I	3.6 I	3.4 I	4.1 U	1.6 I	0.18 U		1.6 I	2.0 U	2.7 I	1.2 U	NA	1.4 I	
MW-5B	B	10 U	3.6 I	2.5 U	1.4 I	4.1 U	2.7	3 I		1.0 I	2.0 U	1.2 U	1.2 U	NA	1.2 I	
MW-6B	B	11	43	21	12.5 I	5.8 I	4.5	6.4		NA	NA	NA	14.4	NA	2.0 I	
MW-7B	D	15	180	12	1.6 I	7.1 I	2.6	6.8		2.6	2.0 U	1.2 U	12.5	NA	1.2 U	
MW-8B	D	54	120	18	3.9 I	16	16	12		13.0	6.2	9	7.4	NA	8.5	
MW-9B	D	13	51	18	3.3 I	5.9 I	0.79 I	6.7		2.8 I	3.2 I	2.2 I	2.9 I	NA	1.9 I	
MW-10B	D	10 U	4.1 I	2.5 U	0.98 I	4.1 U	0.18 U	5.2		1.1 I	2.0 U	1.2 U	1.2 U	NA	1.2 U	
MW-11B	D	10 U	56	3.5 I	3 I	4.1 U	1.6	4		1.4 I	2.0 U	2.4 I	3.2 I	NA	3.0 I	
MW-12B	D	10 U	53	12	1.5 I	4.8 I	2.1	2.3		0.5 I	2.0 U	1.2 U	1.4 I	NA	1.2 I	
MW-13B	D	11	12	3.3 I	0.92 I	4.2 I	3.1	3.2		1.3 I	2.0 U	1.2 U	1.6 I	NA	1.8 I	
MW-14B	D	10 U	12	4.6 I	5.1 I	4.1 U	1.6	4.3 I		MW-14B & MW-15B were abandoned in July 2007						
MW-15B	D	10 U	13	4.7 I	1.4 I	4.1 U	0.18 U	2.4 I								
MW-16B	D	MW- 16B through MW-23B were constructed as part of the Phases 2 and 3 development in Sep 2007								5.1	11.0	20.0	3.6 I	1.2 U	1.8 I	1.8 I
MW-17B	D									10	5.7	5.0 I	2.5 I	NA	NA	NA
MW-18B	D									12	2.2	2.1 I	1.5 I	NA	NA	NA
MW-19B	D									7	2.6	6.1	1.9 I	1.8 I	NA	3.1 I
MW-20B	D									27	17.0	7.3	12	NA	NA	NA
MW-21B	D									41	12.0	5.1	2.9 I	NA	NA	NA
MW-22B	B									106	0.9 I	5.8	6.8	NA	NA	NA
MW-23B	B									1.6 I	2.7	2.0 U	1.2 U	1.2 U	NA	1.2 U
MW-1C	B	14	5.6 I	3.3 I	4.1 I	4.1 U	0.18 U	2.3 I	MW-1A through MW-15A are monitoring wells constructed as part of the Phase 1 development	NA	NA	NA	NA	2.2 I	NA	
MW-2C	B	18	9.5 I	2.8 I	2.4 I	4.1 U	3.1	4 I		1.8 I	2.0 U	1.2 U	NA	1.5 I	NA	
MW-3C	B	18	18	2.5 I	2.5 I	4.1 U	1.2 I	0.18 U		1.3 I	2.0 U	1.7 I	NA	1.8 I	NA	
MW-4C	B	24	120	8.9 I	7.2 I	5.6 I	9.7	5.2		1.7 I	2.0 U	2.7 I	NA	1.6 I	NA	
MW-5C	B	10 U	2.5 U	2.5 U	0.78 I	4.1 U	0.4 I	4.1 I		1.5 I	2.0 U	1.2 U	NA	1.9 I	NA	
MW-6C	B	24	4.6 I	2.5 U	2.2 I	4.3 I	3.1	3 I		NA	NA	NA	NA	1.2 U	NA	
MW-7C	D	93	140	9.8 I	3.2 I	4.1 U	1.8 I	3 I		2.8	2.0 U	1.4 I	NA	1.2 U	NA	
MW-8C	D	10 U	2.5 U	2.5 U	1.9 I	4.1 U	0.34 I	7.3		2.4 I	2.0 U	1.6 I	NA	1.4 I	NA	
MW-9C	D	10 U	2.6 I	2.5 U	2 I	4.1 U	0.18 U	2.5 I		1.9 I	2.2 I	2.9 I	NA	2.8 I	NA	
MW-10C	D	33	5.7 I	2.5 U	2.4 I	4.1 U	1.1 I	6.8		1.2 I	2.0 U	2.1 I	NA	2.2 I	NA	
MW-11C	D	10 U	2.5 U	2.6 I	1.6 I	4.1 U	0.83	2.4		0.8 I	2.0 U	1.2 U	NA	1.2 U	NA	
MW-12C	D	10 U	3 I	2.5 U	2.3 I	4.1 U	0.68	4		0.4 I	2.0 U	1.2 U	NA	1.2 U	NA	
MW-13C	D	10 U	2.5 U	2.5 U	1.2 I	4.1 U	0.88	1.3 I		0.8 I	2.0 U	1.2 U	NA	1.2 U	NA	
MW-14C	D	17	15	2.8 I	1.8 I	4.1 U	3.9	1.3 I		MW-14C & MW-15C were abandoned in July 2007						
MW-15C	D	10 U	3.4 I	2.5 U	0.87 I	4.1 U	0.18 U	0.18 U								
MW-16C	D	MW- 16C through MW-23C were constructed as part of the Phases 2 and 3 development in Sep 2007								3.3	3.5 I	2.0 U	2 I	1.2 U	1.2 U	1.7 I
MW-17C	D									7.4	2.9	2.3 I	2.4 I	NA	NA	NA
MW-18C	D									46	9.4	8.3	2.8 I	NA	NA	NA
MW-19C	D									29	37.0	8.1	6.4	NA	4 I	NA
MW-20C	D									10	8.1	11.0	4.9 I	NA	NA	NA
MW-21C	D									18	5.5	6.0	4 I	NA	NA	NA
MW-22C	B									2.9	0.6 I	2.0 U	1.2 U	NA	NA	NA
MW-23C	B									29	5.0	2.0 U	1.3 I	NA	1.2 U	NA

Notes:

µg/L=micrograms per liter

U = Not detected at value represented

I = Value is estimated to be between method detection limit and practical quantitation limit.

NA = Not Analyzed

Well type: (B) Background well (D) Detection well

Constituent detections are shown in shaded cells (green color)

Constituent detections exceeding the GWCTL are shown in shaded cells (tan color)

MW-14A, 14B, 14C and MW-15A, 15B, 15C were decommissioned on 10 July 2007

Table 5-10
Benzene Concentrations in Monitoring Wells
Third Biennial Technical Report on Water Quality
J.E.D. Solid Waste Management Facility

Well ID	Type	PH 1 Baseline Jan-04 (µg/L)		1st Event Jul-04 (µg/L)		2nd Event Jan-05 (µg/L)		3rd Event Jul-05 (µg/L)		4th Event Feb-06 (µg/L)		5th Event Jul-06 (µg/L)		6th Event Feb-07 (µg/L)		PH 2&3 Baseline Sep-07 (µg/L)		7th Event Nov-07 (µg/L)		8th Event May-08 (µg/L)		9th Event Nov-08 (µg/L)		10th Event May-09 (µg/L)		11th Event Nov-09 (µg/L)		12th Event May-10 (µg/L)				
MW-1A	B	1.0	U	0.27	U	0.27	U	0.5	U	0.088	U	0.088	U	0.088	U	MW-1A through MW-15A are monitoring wells constructed as part of the Phase 1 development	NA		NA		NA		0.52	U	0.56	I	5.6					
MW-2A	B	1.0	U	0.27	U	0.27	U	0.5	U	0.088	U	0.088	U	0.088	U		0.1	U	0.2	U	0.5	U	0.52	U	0.52	U	0.066	U				
MW-3A	B	1.0	U	0.27	U	0.27	U	0.5	U	0.088	U	0.088	U	0.088	U		0.1	U	0.2	U	0.9	I	0.52	U	0.75	I	1.2					
MW-4A	B	1.0	U	0.27	U	0.27	U	0.5	U	0.088	U	0.088	U	0.088	U		0.1	U	0.2	U	0.5	U	0.52	U	0.52	U	0.066	U				
MW-5A	B	1.0	U	0.27	U	0.27	U	0.5	U	0.088	U	0.088	U	0.088	U		0.1	U	0.3	I	0.8	I	0.65	I	0.52	U	0.33	U				
MW-6A	B	1.0	U	0.27	U	0.27	U	0.5	U	0.088	U	0.088	U	0.088	U		0.1	U	NA		NA		0.52	U	0.58	I	0.41	I				
MW-7A	D	1.0	U	0.27	U	0.27	U	0.5	U	0.088	U	0.088	U	0.088	U		NA		0.2	U	0.5	U	0.52	U	0.52	U	0.066	U				
MW-8A	D	1.0	U	0.27	U	0.27	U	0.5	U	0.088	U	0.088	U	0.088	U		0.3	I	0.2	U	0.5	U	0.52	U	1.3		1.6					
MW-9A	D	1.0	U	0.27	U	0.27	U	0.5	U	0.088	U	0.088	U	3.9			1.4		2.8		7.7		2.5		9.6		11.0					
MW-10A	D	1.0	U	0.27	U	0.27	U	0.5	U	0.088	U	0.088	U	0.088	U		0.1	U	0.4	I	1.3		0.96	I	2.9		3.3					
MW-11A	D	1.0	U	0.27	U	0.27	U	0.5	U	0.088	U	0.088	U	0.088	U		1	I	3.3		1.8		0.62	I	2.9		8.0					
MW-12A	D	1.0	U	0.27	U	0.27	U	0.5	U	0.088	U	0.088	U	0.088	U		0.1	U	0.2	U	0.5	U	0.52	U	0.52	U	2.0					
MW-13A	D	1.0	U	0.27	U	0.27	U	0.5	U	0.088	U	0.088	U	0.088	U		0	U	0.2	U	0.5	U	0.65	I	0.9	I	1.2					
MW-14A	D	1.0	U	0.27	U	0.27	U	0.5	U	0.088	U	0.088	U	0.088	U		MW-14A & MW-15A were abandoned in July 2007															
MW-15A	D	1.0	U	0.27	U	0.27	U	0.5	U	0.088	U	0.088	U	0.088	U																	
MW-16A	D	MW- 16A through MW-23A were constructed as part of the Phases 2 and 3 development in Sep 2007															0.088	U	0.1	U	0.2	U	0.5	U	0.52	U	0.52	U	0.066	U		
MW-17A	D																0.088	U	0.1	U	0.2	U	0.5	U	NA		NA		NA		NA	
MW-18A	D																0.088	U	0.1	U	0.2	U	0.5	U	NA		NA		NA		NA	
MW-19A	D																0.44	U	0.1	U	0.2	U	0.5	U	0.52	U	0.52	U	0.33	U		
MW-20A	D																0.088	U	0.1	U	0.2	U	0.5	U	NA		NA		NA			
MW-21A	D																0.088	U	0.1	U	0.2	U	0.5	U	NA		NA		NA			
MW-22A	B																0.088	U	0.1	U	0.2	U	0.5	U	NA		NA		NA			
MW-23A	B																0.088	U	0.1	U	0.2	U	0.5	U	0.52	U	0.52	U	0.066	U		
MW-1B	B	1.0	U	0.27	U	0.27	U	0.5	U	0.088	U	0.088	U	0.088	U	MW-1A through MW-15A are monitoring wells constructed as part of the Phase 1 development	NA		NA		NA		0.52	U	NA		0.066	U				
MW-2B	B	1.0	U	0.27	U	0.27	U	0.5	U	0.088	U	0.088	U	0.088	U		0.1	U	0.2	U	0.5	U			NA		0.066	U				
MW-3B	B	1.0	U	0.27	U	0.27	U	0.5	U	0.088	U	0.088	U	0.088	U		0.1	U	0.2	U	0.5	U			NA		0.066	U				
MW-4B	B	1.0	U	0.27	U	0.27	U	0.5	U	0.088	U	0.088	U	0.088	U		0.1	U	0.2	U	0.5	U			NA		0.066	U				
MW-5B	B	1.0	U	0.27	U	0.27	U	0.5	U	0.088	U	0.088	U	0.088	U		0.1	U	0.2	U	0.5	U			NA		0.066	U				
MW-6B	B	1.0	U	0.27	U	0.27	U	0.5	U	0.088	U	0.088	U	0.088	U		NA		NA		NA				0.52	U	0.066	U				
MW-7B	D	1.0	U	0.27	U	0.27	U	0.5	U	0.088	U	0.088	U	0.088	U		0.1	U	0.2	U	0.5	U			NA		0.066	U				
MW-8B	D	1.0	U	0.27	U	0.27	U	0.5	U	0.088	U	0.088	U	0.088	U		0.1	U	0.2	U	0.5	U			NA		0.066	U				
MW-9B	D	1.0	U	0.27	U	0.27	U	0.5	U	0.088	U	0.088	U	0.088	U		0.1	U	0.2	U	0.5	U			NA		0.066	U				
MW-10B	D	1.0	U	0.27	U	0.27	U	0.5	U	0.088	U	0.088	U	0.088	U		0.1	U	0.2	U	0.5	U			NA		0.066	U				
MW-11B	D	1.0	U	0.27	U	0.27	U	0.5	U	0.088	U	0.088	U	0.088	U		0.1	U	0.2	U	0.5	U			NA		0.066	U				
MW-12B	D	1.0	U	0.27	U	0.27	U	0.5	U	0.088	U	0.088	U	0.088	U		0.1	U	0.2	U	0.5	U			NA		0.066	U				
MW-13B	D	1.0	U	0.27	U	0.27	U	0.5	U	0.088	U	0.088	U	0.088	U		0.1	U	0.2	U	0.5	U			NA		0.066	U				
MW-14B	D	1.0	U	0.27	U	0.27	U	0.5	U	0.088	U	0.088	U	0.088	U		MW-14B & MW-15B were abandoned in July 2007															
MW-15B	D	1.0	U	0.27	U	0.27	U	0.5	U	0.088	U	0.088	U	0.088	U																	
MW-16B	D	MW- 16B through MW-23B were constructed as part of the Phases 2 and 3 development in Sep 2007															0.088	U	0.1	U	0.2	U	0.5	U	0.52	U	0.52	U	0.066	U		
MW-17B	D																0.088	U	0.1	U	0.2	U	0.5	U	NA		NA		NA			
MW-18B	D																0.088	U	0.1	U	0.2	U	0.5	U	NA		NA		NA			
MW-19B	D																0.088	U	0.1	U	0.2	U	0.5	U	0.52	U	0.066	U				
MW-20B	D																0.088	U	0.1	U	0.2	U	0.5	U	NA		NA					
MW-21B	D																0.088	U	0.1	U	0.2	U	0.5	U	NA		NA					
MW-22B	B																0.088	U	0.1	U	0.2	U	0.5	U	NA		NA					
MW-23B	B																0.088	U	0.1	U	0.2	U	0.5	U	0.52	U	0.066	U				
MW-1C	B	1.0	U	0.27	U	0.27	U	0.5	U	0.088	U	0.088	U	0.088	U	MW-1A through MW-15A are monitoring wells constructed as part of the Phase 1 development	NA		NA		NA		0.52	U	NA		NA					
MW-2C	B	1.0	U	0.27	U	0.27	U	0.5	U	0.088	U	0.088	U	0.088	U		0.1	U	0.2	U	0.5	U			NA		NA					
MW-3C	B	1.0	U	0.27	U	0.27	U	0.5	U	0.088	U	0.088	U	0.088	U		0.1	U	0.2	U	0.5	U			NA		NA					
MW-4C	B	1.0	U	0.27	U	0.27	U	0.5	U	0.088	U	0.088	U	0.088	U		0.1	U	0.2	U	0.5	U			NA		NA					
MW-5C	B	1.0	U	0.27	U	0.27	U	0.5	U	0.088	U	0.088	U	0.088	U		0.1	U	0.2	U	0.5	U			NA		NA					
MW-6C	B	1.0	U	0.27	U	0.27	U	0.5	U	0.088	U	0.088	U	0.088	U		NA		NA		NA				0.52	U	NA					
MW-7C	D	1.0	U	0.27	U	0.27	U	0.5	U	0.088	U	0.088	U	0.088	U		0.1	U	0.2	U	0.5	U			NA		NA					
MW-8C	D	1.0	U	0.27	U	0.27	U	0.5	U	0.088	U	0.088	U	0.088	U		0.1	U	0.2	U	0.5	U			NA		NA					
MW-9C	D	1.0	U	0.27	U	0.27	U	0.5	U	0.088	U	0.088	U	0.088	U		0.1	U	0.2	U	0.5	U			NA		NA					
MW-10C	D	1.0	U	0.27	U	0.27	U	0.5	U	0.088	U	0.088	U	0.088	U		0.1	U	0.2	U	0.5	U			NA		NA					
MW-11C	D	1.0	U	0.27	U	0.27	U	0.5	U	0.088	U	0.088	U	0.088	U		0.1	U	0.2	U	0.5	U			NA		NA					
MW-12C	D	1.0	U	0.27	U	0.27	U	0.5	U	0.088	U	0.088	U	0.088	U		0.1	U	0.2	U	0.5	U			NA		NA					
MW-13C	D	1.0	U	0.27	U	0.27	U	0.5	U	0.088	U	0.088	U	0.088	U		0.1	U	0.2	U	0.5	U			NA		NA					
MW-14C	D	1.0	U	0.27	U	0.27	U	0.5	U	0.088	U	0.088	U	0.088	U		MW-14C & MW-15C were abandoned in July 2007															
MW-15C	D	1.0	U	0.27	U	0.27	U	0.5	U	0.088	U	0.088	U	0.088	U																	
MW-16C	D																															

Table 5-11
Vinyl Chloride Concentrations in Monitoring Wells
Third Biennial Technical Report on Water Quality
J.E.D. Solid Waste Management Facility

Well ID	Type	PH 1 Baseline Jan-04 (µg/L)		1st Event Jul-04 (µg/L)		2nd Event Jan-05 (µg/L)		3rd Event Jul-05 (µg/L)		4th Event Feb-06 (µg/L)		5th Event Jul-06 (µg/L)		6th Event Feb-07 (µg/L)		PH 2&3 Baseline Sep-07 (µg/L)		7th Event Nov-07 (µg/L)		8th Event May-08 (µg/L)		9th Event Nov-08 (µg/L)		10th Event May-09 (µg/L)		11th Event Nov-09 (µg/L)		12th Event May-10 (µg/L)		
MW-1A	B	1.0	U	0.5	U	0.5	U	0.5	U	0.12	U	0.12	U	0.12	U	MW-1A through MW-15A are monitoring wells constructed as part of the Phase 1 development	NA		NA		NA		0.25	U	0.25	U	3.7			
MW-2A	B	1.0	U	0.5	U	0.5	U	0.5	U	0.12	U	0.12	U	0.12	U		0.12	U	0.23	U	0.25	U	0.25	U	0.25	U	0.16	U		
MW-3A	B	1.0	U	0.5	U	0.5	U	0.5	U	0.12	U	0.12	U	0.12	U		0.12	U	0.23	U	0.25	U	0.25	U	0.25	U	0.16	U		
MW-4A	B	1.0	U	0.5	U	0.5	U	0.5	U	0.12	U	0.12	U	0.12	U		0.12	U	0.23	U	0.25	U	0.25	U	0.25	U	0.16	U		
MW-5A	B	1.0	U	0.5	U	0.5	U	0.5	U	0.12	U	0.12	U	0.12	U		0.12	U	0.4	I	0.42	I	0.53	I	0.25	U	0.25	U	0.8	U
MW-6A	B	1.0	U	0.5	U	0.5	U	0.5	U	0.12	U	0.12	U	0.12	U		0.12	U	0.12	U	NA		NA		0.25	U	0.25	U	0.16	U
MW-7A	D	1.0	U	0.5	U	0.5	U	0.5	U	0.12	U	0.12	U	0.12	U		0.12	U	NA		0.23	U	0.25	U	0.25	U	0.25	U	0.16	U
MW-8A	D	1.0	U	0.5	U	0.5	U	0.5	U	0.12	U	0.12	U	0.12	U		0.12	U	0.12	U	0.23	U	0.25	U	0.25	U	0.25	U	0.41	I
MW-9A	D	1.0	U	0.5	U	0.5	U	0.5	U	0.12	U	0.12	U	0.12	U		3.00		2.1		2.4		2.1		1.1		1.4		1.9	
MW-10A	D	1.0	U	0.5	U	0.5	U	0.5	U	0.12	U	0.12	U	0.12	U		0.12	U	0.12	U	0.61	I	0.64	I	0.25	U	0.25	U	0.16	U
MW-11A	D	1.0	U	0.5	U	0.5	U	0.5	U	0.12	U	0.12	U	0.12	U		0.12	U	0.12	U	1.7		0.74	I	0.25	U	1.1		1.7	
MW-12A	D	1.0	U	0.5	U	0.5	U	0.5	U	0.12	U	0.12	U	0.12	U		0.12	U	0.12	U	0.23	U	0.53	I	0.25	U	0.25	U	0.16	U
MW-13A	D	1.0	U	0.5	U	0.5	U	0.5	U	0.12	U	0.12	U	0.12	U		0.12	U	0.12	U	0.23	U	0.25	U	0.25	U	0.25	U	0.16	U
MW-14A	D	1.0	U	0.5	U	0.5	U	0.5	U	0.12	U	0.12	U	0.12	U		0.12	U	MW-14A & MW-15A were abandoned in July 2007											
MW-15A	D	1.0	U	0.5	U	0.5	U	0.5	U	0.12	U	0.12	U	0.12	U		0.12	U												
MW-16A	D	MW- 16A through MW-23A were constructed as part of the Phases 2 and 3 development in Sep 2007															0.12	U	0.12	U	0.23	U	0.25	U	0.25	U	0.25	U	0.16	U
MW-17A	D																0.12	U	0.12	U	0.23	U	0.25	U	0.25	U	NA		NA	
MW-18A	D																0.12	U	0.12	U	0.23	U	0.25	U	0.25	U	NA		NA	
MW-19A	D																0.12	U	0.12	U	0.23	U	0.25	U	0.25	U	0.25	U	0.8	U
MW-20A	D																0.12	U	0.12	U	0.23	U	0.25	U	0.25	U	NA		NA	
MW-21A	D																0.12	U	0.12	U	0.23	U	0.25	U	0.25	U	NA		NA	
MW-22A	B																0.12	U	0.12	U	0.23	U	0.25	U	0.25	U	NA		NA	
MW-23A	B																0.12	U	0.12	U	0.23	U	0.25	U	0.25	U	0.16	U		
MW-1B	B	1.0	U	0.5	U	0.5	U	0.5	U	0.12	U	0.12	U	0.12	U	MW-1A through MW-15A are monitoring wells constructed as part of the Phase 1 development	NA		NA		NA		0.25	U	NA		0.16	U		
MW-2B	B	1.0	U	0.5	U	0.5	U	0.5	U	0.12	U	0.12	U	0.12	U		0.12	U	0.23	U	0.25	U	0.25	U	NA		0.16	U		
MW-3B	B	1.0	U	0.5	U	0.5	U	0.5	U	0.12	U	0.12	U	0.12	U		0.12	U	0.23	U	0.25	U	0.25	U	NA		0.16	U		
MW-4B	B	1.0	U	0.5	U	0.5	U	0.5	U	0.12	U	0.12	U	0.12	U		0.12	U	0.23	U	0.25	U	0.25	U	NA		0.16	U		
MW-5B	B	1.0	U	0.5	U	0.5	U	0.5	U	0.12	U	0.12	U	0.12	U		0.12	U	0.23	U	0.25	U	0.25	U	NA		0.16	U		
MW-6B	B	1.0	U	0.5	U	0.5	U	0.5	U	0.12	U	0.12	U	0.12	U		0.12	U	NA		NA		0.25	U	NA		0.16	U		
MW-7B	D	1.0	U	0.5	U	0.5	U	0.5	U	0.12	U	0.12	U	0.12	U		0.12	U	0.23	U	0.25	U	0.25	U	NA		0.16	U		
MW-8B	D	1.0	U	0.5	U	0.5	U	0.5	U	0.12	U	0.12	U	0.12	U		0.12	U	0.23	U	0.25	U	0.25	U	NA		0.16	U		
MW-9B	D	1.0	U	0.5	U	0.5	U	0.5	U	0.12	U	0.12	U	0.12	U		0.12	U	0.23	U	0.25	U	0.25	U	NA		0.16	U		
MW-10B	D	1.0	U	0.5	U	0.5	U	0.5	U	0.12	U	0.12	U	0.12	U		0.12	U	0.23	U	0.25	U	0.25	U	NA		0.16	U		
MW-11B	D	1.0	U	0.5	U	0.5	U	0.5	U	0.12	U	0.12	U	0.12	U		0.12	U	0.23	U	0.25	U	0.25	U	NA		0.16	U		
MW-12B	D	1.0	U	0.5	U	0.5	U	0.5	U	0.12	U	0.12	U	0.12	U		0.12	U	0.23	U	0.25	U	0.25	U	NA		0.16	U		
MW-13B	D	1.0	U	0.5	U	0.5	U	0.5	U	0.12	U	0.12	U	0.12	U		0.12	U	0.23	U	0.25	U	0.25	U	NA		0.16	U		
MW-14B	D	1.0	U	0.5	U	0.5	U	0.5	U	0.12	U	0.12	U	0.12	U		0.12	U	MW-14B & MW-15B were abandoned in July 2007											
MW-15B	D	1.0	U	0.5	U	0.5	U	0.5	U	0.12	U	0.12	U	0.12	U		0.12	U												
MW-16B	D	MW- 16B through MW-23B were constructed as part of the Phases 2 and 3 development in Sep 2007															0.12	U	0.12	U	0.23	U	0.25	U	0.25	U	0.25	U	0.16	U
MW-17B	D																0.12	U	0.12	U	0.23	U	0.25	U	0.25	U	NA		NA	
MW-18B	D																0.12	U	0.12	U	0.23	U	0.25	U	0.25	U	NA		NA	
MW-19B	D																0.12	U	0.12	U	0.23	U	0.25	U	0.25	U	0.25	U	0.16	U
MW-20B	D																0.12	U	0.12	U	0.23	U	0.25	U	0.25	U	NA		NA	
MW-21B	D																0.12	U	0.12	U	0.23	U	0.25	U	0.25	U	NA		NA	
MW-22B	B																0.12	U	0.12	U	0.23	U	0.25	U	0.25	U	NA		NA	
MW-23B	B																0.12	U	0.12	U	0.23	U	0.25	U	0.25	U	0.16	U		
MW-1C	B	1.0	U	0.5	U	0.5	U	0.5	U	0.12	U	0.12	U	0.12	U	MW-1A through MW-15A are monitoring wells constructed as part of the Phase 1 development	NA		NA		NA		NA		0.25	U	NA			
MW-2C	B	1.0	U	0.5	U	0.5	U	0.5	U	0.12	U	0.12	U	0.12	U		0.12	U	0.23	U	0.25	U	NA		0.25	U	NA			
MW-3C	B	1.0	U	0.5	U	0.5	U	0.5	U	0.12	U	0.12	U	0.12	U		0.12	U	0.23	U	0.25	U	NA		0.25	U	NA			
MW-4C	B	1.0	U	0.5	U	0.5	U	0.5	U	0.12	U	0.12	U	0.12	U		0.12	U	0.23	U	0.25	U	NA		0.25	U	NA			
MW-5C	B	1.0	U	0.5	U	0.5	U	0.5	U	0.12	U	0.12	U	0.12	U		0.12	U	0.23	U	0.25	U	NA		0.25	U	NA			
MW-6C	B	1.0	U	0.5	U	0.5	U	0.5	U	0.12	U	0.12	U	0.12	U		0.12	U	NA		NA		NA		0.25	U	NA			
MW-7C	D	1.0	U	0.5	U	0.5	U	0.5	U	0.12	U	0.12	U	0.12	U		0.12	U	0.23	U	0.25	U	NA		0.25	U	NA			
MW-8C	D	1.0	U	0.5	U	0.5	U	0.5	U	0.12	U	0.12	U	0.12	U		0.12	U	0.23	U	0.25	U	NA		0.25	U	NA			
MW-9C	D	1.0	U	0.5	U	0.5	U	0.5	U	0.12	U	0.12	U	0.12	U		0.12	U	0.23	U	0.25	U	NA		0.25	U	NA			
MW-10C	D	1.0	U	0.5	U	0.5	U	0.5	U	0.12	U	0.12	U	0.12	U		0.12	U	0.23	U	0.25	U	NA		0.25	U	NA			
MW-11C	D	1.0	U	0.5	U	0.5	U	0.5	U	0.12																				

Table 5-12
Surface Water Detections (SW - 3)
Third Biennial Technical Report on Water Quality
J.E.D. Solid Waste Management Facility

Parameter Monitored	Class III Standard Criteria	Units	Baseline Jan-04	1st Event July-04	2nd Event Jan-05	3rd Event July-05	4th Event Feb-06	5th Event July-06	6th Event Feb-07	7th Event Nov-07	8th Event May-08	9th Event Nov-08	10th Event May-09	11th Event Nov-09	12th Event May-10
Ammonia (as N)	--	mg/L	ND	0.069	0.33	0.18	0.01	ND	ND	ND	NA	NA	NA	NA	NA
Arsenic	50	ug/L	ND	ND	ND	ND	0.78	ND	ND	0.5	ND	0.61	1.4	NA	0.47
B.O.D.	--	mg/L	NA	NA	NA	ND	NA	82	ND	ND	ND	NA	NA	NA	NA
Barium	--	ug/L	ND	ND	10	ND	7.7	11	9.2	14	6.7	11	14.1	NA	7.1
Chloride	--	mg/L	NA	NA	NA	4.1	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorophyll-a	--	mg/m ³	NA	3.5	1.1	NA	2.1	3.2	3.2	2.4	11	NA	NA	NA	NA
Chromium	--	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
COD	--	mg/L	NA	99	81	50.7	65	100	28	87	33	74	160	NA	120
Fecal Coliform	800	#/100mL	NA	NA	NA	NA	NA	NA	NA	560	240	23	48	NA	16
Hardness as CaCO ₃	--	mg/L	NA	8.1	16	8.4	13	13	12	16	5.8	15	22.4	NA	9.7
Iron	1000	ug/L	790	730	670	630	360	870	370	795	279	742	1060	NA	1050
Nitrate-N	--	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
Nitrogen, Total as N	--	mg/L	NA	0.78	1.2	0.72	0.79	1.1	0.5	1.5	1.2	0.78	1.6	NA	1.2
Organic Carbon, Total	--	mg/L	NA	25	29	19.1	32	26	16	36	9.2	29	34	NA	29
Phosphates, Total	--	mg/L	NA	ND	ND	ND	62	0.054	0.056	0.045	0.038	NA	NA	NA	NA
Sodium	--	mg/L	NA	NA	NA	NA	ND	NA	NA	9.9	NA	NA	NA	NA	NA
Total Dissolved Solids	--	mg/L	120	26	86	645	49	92	56	95	30	87	130	NA	78
Total Suspended Solids	--	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	8	NA	NA	NA	NA
Vanadium	--	ug/L	ND	ND	ND	0.6	ND	ND	ND	ND	ND	NA	NA	NA	NA
Zinc	--	ug/L	ND	ND	ND	3.8	ND	ND	ND	ND	ND	NA	NA	NA	NA

- Notes:
- 1. Shaded values exceed Class III Standard Criteria
 - 2. "--" indicates that no criteria has been established
 - 3. NA = not analyzed.
 - 4. ND = not detected

Table 5-13
Surface Water Detections (SW - 4)
Third Biennial Technical Report on Water Quality
J.E.D. Solid Waste Management Facility

	Class III Standard Criteria	Units	Baseline Jan-04	1st Event July-04	2nd Event Jan-05	3rd Event July-05	4th Event Feb-06	5th Event July-06	6th Event Feb-07	7th Event Nov-07	8th Event May-08	9th Event Nov-08	10th Event May-09	11th Event Nov-09	12th Event May-10
Ammonia (as N)	--	mg/L	0.032	0.062	0.093	0.12	0.01	ND	ND	ND	NA	NA	NA	NA	NA
Arsenic	50	ug/L	ND	ND	ND	ND	ND	0.9	ND	ND	ND	ND	1.27	NA	0.55
B.O.D.	--	mg/L	ND	ND	ND	ND	ND	53	ND	ND	ND	NA	NA	NA	NA
Barium	--	ug/L	ND	ND	ND	ND	9	8	7.1	15	7.7	12	12.7	NA	5.7
Chloride	--	mg/L	NA	NA	NA	3.6	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorophyll-a	--	mg/m ³	NA	1.1	ND	NA	3.1	ND	2.7	ND	24	NA	NA	NA	NA
Chromium	--	ug/L	ND	ND	ND	ND	2.7	ND	ND	ND	ND	NA	NA	NA	NA
COD	--	mg/L	NA	64	94	61.3	57	92	6.9	95	31	76	94	NA	97
Fecal Coliform	800	#/100mL	NA	NA	NA	NA	NA	NA	NA	1000	7200	460	600		200
Hardness as CaCO ₃	--	mg/L	NA	6.2	13	5.8	12	6.4	8.1	16	5.6	13	21.3	NA	6.2
Iron	1000	ug/L	1100	590	670	707	460	510	270	875	261	817	947	NA	1060
Nitrate-N	--	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
Nitrogen, Total as N	--	mg/L	NA	0.78	1.7	0.84	0.88	1.2	ND	1.4	0.82	0.83	1.5	NA	1.5
Organic Carbon, Total	--	mg/L	NA	23	28	17.7	30	17	11	37	8.6	31	25	NA	30
Phosphates, Total	--	mg/L	ND	ND	0.29	0.065	NA	0.044	0.063	0.053	0.11	NA	NA	NA	NA
Sodium	--	mg/L	NA	NA	NA	NA	NA	NA	NA	10	NA	NA	NA	NA	NA
Total Dissolved Solids	--	mg/L	130	ND	92	157	47	64	51	88	36	84	97	NA	68
Vanadium	--	ug/L	ND	ND	ND	ND	ND	3.1	ND	ND	ND	NA	NA	NA	NA
Zinc	--	ug/L	ND	ND	ND	ND	ND	ND	10	ND	ND	NA	NA	NA	NA

- Notes:
- 1. Shaded values exceed Class III Standard Criteria
 - 2. "--" indicates that no criteria has been established
 - 3. NA = not analyzed.
 - 4. ND = not detected

Table 5-14 (1 of 2)
Leachate Detections
Third Biennial Technical Report on Water Quality
J.E.D. Solid Waste Management Facility

Parameter	Regulatory Level	Unit	July 2004 Event	July 2005 Event	July 2006 Event			Nov 2007 Event			
			L-1	L-1	L-1	L-2	L-4	L-1	L-2	L-3	L-4
1,1-Dichloroethane	-	ug/L	1	0.97	ND	1.6	ND	ND	ND	12	ND
1,2-Dichloroethane	500	ug/L	1.9	11.9	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	-	ug/L	ND	2.78	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	7,500	ug/L	ND	5.55	ND	ND	ND	ND	ND	ND	ND
2-Methylphenol	-	ug/L	ND	ND	ND	ND	64	ND	ND	ND	ND
2,4 -D	10,000	ug/L	ND	ND	ND	0.8	ND	ND	ND	ND	ND
2-Butanone (MEK)	200,000	ug/L	1200	25200	ND	ND	ND	ND	ND	25000	ND
2-Hexanone	-	ug/L	ND	30.6	ND	ND	ND	ND	ND	ND	ND
4-Methylphenol	-	ug/L	ND	1420	ND	92	ND	ND	16	2500	ND
4-Methyl-2-pentanone	-	ug/L	ND	203	ND	29	ND	ND	ND	420	ND
Acetone	-	ug/L	350	11200	ND	730	ND	ND	ND	12000	ND
Acetonitrile	-	ug/L	ND	90.3	ND	ND	ND	ND	ND	ND	ND
Alkalinity, Bicarbonate	-	mg/L	37	1390	2400	10	2600	1200	570	420	2200
Ammonia-N	-	mg/L	3.9	NA	520	17	690	57	200	190	760
Antimony	-	ug/L	ND	ND	ND	2.8	ND	ND	ND	3.4	56
Arsenic	5,000	ug/L	ND	16	0.86	3.5	1.9	21	27	13	97
B.O.D.	-	mg/L	ND	228	NA	NA	NA	NA	NA	NA	NA
Barium	100,000	ug/L	83	424	9	220	8.9	817	234	281	281
Benzene	500	ug/L	2	15.6	ND	11	ND	ND	11	20	ND
Benzyl alcohol	-	ug/L	ND	36	ND	ND	ND	ND	ND	ND	ND
Bicarbonate Ion	-	mg/L	ND	ND	2400	10	2600	ND	ND	ND	ND
C.O.D.	-	mg/L	ND	7300	NA	NA	NA	NA	NA	NA	NA
Cadmium	1,000	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	3.6
Carbon disulfide	-	ug/L	1.7	16.1	ND	ND	ND	ND	ND	ND	ND
CFC-11	-	ug/L	ND	ND	ND	9.9	ND	ND	ND	ND	ND
Chloride	-	mg/L	79	1250	2300	360	2600	1100	1800	720	2200
Chlorobenzene	100,000	ug/L	ND	0.4	ND	ND	ND	ND	ND	ND	ND
Chloroethane	-	ug/L	ND	1.46	ND	1.6	ND	ND	ND	ND	ND
Chloromethane	-	ug/L	ND	ND	ND	2.5	ND	ND	ND	ND	ND
Chromium	5,000	ug/L	ND	20.1	3.8	8.4	6.7	50	41	14	534
cis-1,2-Dichloroethene	-	ug/L	ND	21.3	ND	1.1	ND	ND	ND	ND	ND
Cobalt	-	ug/L	ND	ND	ND	3.9	ND	12	ND	1.5	28
Copper	-	ug/L	ND	ND	ND	2.6	2.7	ND	ND	ND	27
Cresol, m & p	200,000	ug/L	130	NA	NA	NA	NA	NA	NA	NA	NA
Diethylphthalate	-	ug/L	10	ND	ND	6.2	ND	ND	ND	ND	ND
Ethylbenzene	-	ug/L	ND	40.6	ND	13	ND	16	44	48	23
Ethylene dichloride	-	ug/L	ND	ND	ND	18	ND	ND	ND	22	ND
Ethyl Methacrylate	-	ug/L	ND	ND	ND	1.4	ND	ND	ND	ND	ND
Fluorene	-	ug/L	ND	10.5	ND	ND	ND	ND	ND	ND	ND
Iron	-	ug/L	6300	16100	270	11200	130	12700	2940	16500	346
Lead	5,000	ug/L	ND	ND	ND	1.2	ND	ND	ND	N	14
Methyl methacrylate	-	ug/L	ND	ND	ND	6.7	ND	ND	ND	ND	ND
Methylene Chloride	-	ug/L	7.3	7.18	ND	57	ND	ND	ND	ND	ND
Naphthalene	-	ug/L	12	2.09	ND	ND	ND	ND	ND	ND	ND
Nickel	-	ug/L	ND	89.4	7.9	6.5	4.1	59	41	27	168
Nitrate	-	mg/L	ND	1.3	ND	ND	ND	ND	ND	ND	ND
Nitrate + Nitrite-N	-	mg/L	ND	271	NA	NA	NA	NA	NA	NA	NA
Nitrogen, Total	-	mg/L	ND	573	NA	NA	NA	NA	NA	NA	NA
Nitrogen, Total Kjeldahl	-	mg/L	ND	302	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	100,000	ug/L	ND	ND	2	0.1	1	ND	ND	ND	ND
Phenol	-	ug/L	29	366	ND	35	120	ND	ND	300	ND
Phosphorus	-	mg/L	ND	1.6	NA	NA	NA	NA	NA	NA	NA
Total Dissolved Solids	-	mg/L	280	133	7900	1720	11000	4400	4100	2600	10000
Selenium	1,000	ug/L	ND	ND	ND	8.6	ND	12	12	3.8	162
Sodium	-	mg/L	38	680	52	230	52	1300	829	447	237
Sulfate	-	mg/L	ND	201	NA	NA	NA	NA	NA	NA	NA
Sulfide	-	mg/L	4.2	NA	95	8.6	180	50	11	29	16
Styrene	-	ug/L	ND	ND	ND	4.8	ND	ND	ND	ND	ND
Tetrachloroethene	700	ug/L	ND	1.75	ND	3.6	ND	ND	ND	ND	ND
Toluene	-	ug/L	5.2	178	ND	75	ND	ND	51	930	44
Trichloroethene	-	ug/L	ND	2.26	ND	2.4	ND	ND	ND	ND	ND
Trichlorofluoromethane	500	ug/L	ND	0.46	NA	NA	NA	NA	NA	NA	NA
Vanadium	-	ug/L	ND	61.6	9.3	27	12	44	102	55	712
Xylenes, total	-	ug/L	ND	73.8	ND	23	ND	ND	55	56	40
Zinc	-	ug/L	ND	40.9	ND	32	26	ND	ND	ND	ND

Notes:
1. ND = Not detected
2. NA = Not analyzed
3. Regulatory level is listed in 40 CFR Part 261.24

Table 5-14 (2 of 2)
Leachate Detections
Third Biennial Technical Report on Water Quality
J.E.D. Solid Waste Management Facility

Parameter	Regulatory Level	Unit	Nov 2008 Event					Nov 2009 Event					
			L-1	L-2	L-3	L-4	L-5	L-1	L-2	L-3	L-4	L-5	L-6
1,4-Dichlorobenzene	7,500	ug/L	7.5 i	5.7 i	2.8 u	12	6.9 i	9.3 i	7.6 i	7.1 i	5 i	6.9 i	3.7 i
2-Butanone (MEK)	200,000	ug/L	5.6 u	360	580	5.6 u	24,000	210	5.6 u	5.6 u	72 i	190	12,000
4-Methylphenol	-	ug/L	2.4 i	0.86 u	110	2 i	1,900	0.86 u	0.86 u	0.86 u	53	0.86 u	3,200
4-Methyl-2-pentanone (MIBK)	-	ug/L	3.7 u	28 i	7.4 u	3.7 u	260	3.7 u	3.7 u	3.7 u	3.7 u	3.7 u	98 i
Acetone	-	ug/L	31 i	300 i	420 i	50 i	11,000	190 i	24 u	24 u	78 i	83 i	6,400
Alkalinity, Total (as Ca CO ₃)	-	mg/L	2,800	570	720	2600	880	3,900	1,800	3,300	1,300	1,900	
Ammonia-N	-	mg/L	720	370	190	780	210	1,200	680	440	1,200	330	400
Antimony	-	ug/L	24	10	5	39	3.4	30	23	11 i	54	10 i	12 i
Arsenic	5,000	ug/L	24	39	13	36	13	56.4	71.2	27.7	71.2	21.9	40.4
Barium	100,000	ug/L	912	305	126	469	244	472	341	180	332	142	203
Benzene	500	ug/L	5.2 u	11	12 i	5.7 i	16	5.6 i	8.8 i	11	7.1 i	9 i	8.4 i
Beryllium	-	ug/L	1.9	0.4 i	0.3 i	1.9	0.4 i	4 i	6 i	2 u	3 i	2 u	ND
bis(2-chloroethoxy)methane	-	ug/L	1.1 u	13	1.1 u	1.2 u	26 u	1.1 u	1.1 u	1.1 u	1.1 u	1.2 u	9.9 i
Cadmium	1,000	ug/L	2.8	0.99	0.72	6.1	0.12 u	5.1	0.12 u	0.12 u	4.7 i	0.12 u	0.12 u
Chloride	-	mg/L	4,100	4,700	930	2,300	830	4,700	2,900	2,400	2,600	1,600	1,500
Chromium	5,000	ug/L	314	97	46	538	24	483	340	95	700	106	71
Cobalt	-	ug/L	16	4.6	5.1	21	2	38	9 i	16	40	15	12
Copper	-	ug/L	11	6.8	4.7	46	7.6	75	13 i	8 i	29	10 i	23
Cyanide, Total	-	mg/L	0.02	0.012	0.013	0.038	0.004 u	19	6.9 i	5.7 i	9 i	9.7 i	6 i
Ethylbenzene	-	ug/L	27	38	30	22	30	34	34	48	35	41	30
Ethylene dichloride	-	ug/L	1.5 u	1.5 u	3 u	1.5 u	40	1.5 u	1.5 u	1.5 u	1.5 u	1.5 u	1.5 u
Iron	-	ug/L	5,150	4,370	3,380	2,130	18,900	7,340	4,230	3,220	1,920	3,900	6,010
Lead	5,000	ug/L	73	6.8	5.1	49	2.4	33	10 i	6 i	26	7 i	11
Nickel	-	ug/L	252	58	37	110	58	440	97	134	219	124	244
Total Dissolved Solids	-	mg/L	13,000	8,400	2,700	11,000	3,700	9,700	6,800	5,700	11,000	4,400	5,600
Selenium	1,000	ug/L	34	48	18	85	5.1	72	28	31	153	33	29
Sodium	-	mg/L	2,190	1,940	481	1,290	475	2,470	1,220	1,270	1,420	897	892
Sulfide	-	mg/L	4.4	15	4.9	5.2	13	15 u	15 u	7.6 u	15 u	7.6 u	5.3 i
Toluene	-	ug/L	13	48	54	27	490	13	13	23	29	21	350
Vanadium	-	ug/L	472	247	120	691	64	596	514	231	847	225	242
Xylenes, total	-	ug/L	46	63	35 i	41	56	56	69	83	52	79	66
Zinc	-	ug/L	26	12	54	39	27	40 u	40 u	40 u	40 u	40 u	380

Maximum concentration of contaminants for the toxicity characteristic listed in 40 CFR 261.24.
u = Not detected at MDL listed.
i = Value is estimated to be between method detection limit and practical quantitation limit.
Only these parameters with detections above the Method Reporting Limit are shown.

6. TREND ANALYSES

6.1 Overview

Section 4 presented a summary of the field-measured parameters and Section 5 provided a summary of the detected parameters, as compared to the regulatory criteria for groundwater, surface water, and leachate samples collected during the water quality monitoring events performed between January 2004 and May 2010. The Permit requires that a trend analyses be completed for any monitoring parameters detected. For this report, only those field measured or detected parameters exceeding the regulatory criteria are addressed. The tables for all parameters detected but at concentrations below the regulatory criteria have been included in Appendix B. The subsequent sections present discussions of the visual trends for the parameters detected exceeding regulatory criteria for groundwater, surface water, and leachate samples.

6.2 Groundwater

Trend analyses have been completed for parameters that exceeded the GCTL at a minimum of one well location for all monitoring events. These parameters include; arsenic, beryllium, chromium, iron, lead, vanadium, ammonia-N, toluene, total dissolved solids (TDS), beryllium, benzene, and vinyl chloride. The results are discussed below for each parameter with respect to either the GCTL or secondary drinking water standards (SDWS), whichever is applicable.

6.2.1 Arsenic

Figure 6-1 shows that the GCTL for arsenic (10 µg/L) was exceeded in at least one monitoring event for seven (7) monitoring wells (MW-11A, 12A, 13A, 19A, 2C, 4C, and 7C). MW-2C, 4C, and 7C all had arsenic concentrations slightly exceeding the GCTL during the baseline event for Phase 1 or the first semi-annual event and all three monitoring wells show a similar visual downward trend over the last six years. The turbidity levels for all three of these wells were well above the SDWS of 20 NTUs (350 to 1,130 NTUs) for the sampling event(s) that exceeded the arsenic GCTL. The dissolved (filtered) samples from these three wells were analyzed for arsenic, and only MW-2C had a dissolved arsenic concentration above the GCTL.

Arsenic was detected in MW-11A (17 µg/L) for the baseline monitoring event (performed prior to placement of any waste in landfill) which exceeded the GCTL. The

arsenic levels in MW-11A have varied between 6.34 and 31 µg/L during the monitoring events performed. Figure 6-1 shows a gradual downward trend in the arsenic concentrations detected in MW-11A over time. Arsenic has been detected consistently in MW-13A since the second semi-annual monitoring event performed in November 2005. The arsenic levels in MW-13A are close in concentration and show a slight incremental upward trend. MW-12A had an arsenic concentration exceeding the GCTL during the eighth monitoring event only. Arsenic was detected in MW-19A above the GCTL during the performance of the baseline monitoring event for Phase 2 and 3. It should be noted that the measured turbidity for this sample was 69.9 NTU, which is above the SDWS of 20 NTU.

The presence of soluble (ferrous) iron is an excellent predictor of arsenic concentrations. Figure 9-2 shows the correlation plot between iron and arsenic. The correlation coefficient of 0.77 indicates a positive correlation between the two analytes. The positive correlation observed in Figure 9-2 has also been observed at many other landfills statewide. A review of FDEP's data base for C&D landfills shows similar correlations at virtually every site that has arsenic impacts. This behavior is not surprising when considering the local aquifer geochemistry and the analytes in question. One of the primary solubility controls as it relates to the presence of arsenic is iron (ferric) hydroxides (FeOH(x)) in the aquifer. These oxy-hydroxides have a strong affinity for arsenic and, even at relatively low levels, serve to render arsenic insoluble in groundwater systems. However, under low oxygen (reducing) conditions, the oxidized (ferric) form is reduced to the soluble ferrous form. Arsenic levels go up because arsenic is solubilized during the iron reduction process.

This is precisely what has happened in shallow groundwater at the JED facility. Each of the arsenic exceedances occurred when iron was higher than 10 mg/L. No arsenic exceedances occur under any other conditions except for MW-2C in the baseline event for Phase 1. However, MW-2C has not had an arsenic detection in the past twelve monitoring events. The fact that the levels in MW-11A have not changed appreciably since before waste was placed and that the biochemical conditions are favorable for arsenic dissolution suggest that the arsenic exceedances encountered at the JED facility are naturally occurring.

6.2.2 Ammonia (as N)

Figure 6-2 shows the monitoring wells where the GCTL for ammonia (2.8 mg/L) was exceeded in at least one monitoring event for fourteen (14) monitoring wells (MW-1A, 3A, 4A, 5A, 7A, 8A, 9A, 10A, 11A, 19A, 4B, 9B, 22B, and 14C). Ammonia was detected in all of the Phase 1 wells during the baseline sampling event. There appears to be an upward visual trend for ammonia in all of the wells listed above except for MW-4B and 9B where no discernable trend is apparent, and in MW-22 where a downward trend is apparent. Overall, the ammonia concentrations above the GCTL have been reported in an increased number of wells and in concentrations that appear to be increasing slightly over time. The GCTL for ammonia was exceeded in the Phase 2 and 3 baseline event for MW-19A and MW-22B. This was the only exceedances of the GCTL for ammonia in MW-22B, however ammonia has been consistently detected in MW-19A at concentrations above the GCTL for five of the last six monitoring events but at concentrations lower than the baseline event.

It is suspected that a primary source of ammonia reported in groundwater is related to previous activity at the site and or land use in the adjacent area. Prior to construction of the landfill, the property was used as a sod farm. Any number of nitrogen-based compounds that can easily be converted to ammonia or can be applied in an ammonia form were likely used to fertilize the grass to achieve optimum growth. Though nitrate has not been consistently detected in groundwater, the use of nitrate fertilizer is likely masked by the reducing groundwater conditions at and in the vicinity of the landfill. Under reducing conditions, nitrate undergoes a denitrification process whereby nitrogen gas is released to the atmosphere. In addition to the sod farming activities discussed above, the adjacent property was and continues to be used for cattle grazing, which may provide an additional ammonia source. Cattle manure contains between 2 and 2.5 percent organic nitrogen (Singer and Munns, 1991), which if converted to an inorganic form may serve as another potential groundwater ammonia source.

Other geochemical parameters that are currently monitored in groundwater were evaluated to determine if other constituent levels in groundwater provide evidence of a landfill operations-derived release. Leachate generated in landfills can generally be characterized as reducing, with a high concentration of organic material, and various ions. The following four groups of constituents are generally found in landfill leachate, and if present at elevated levels, may be indicative of leachate migration to groundwater (Christensen, et al, 2001). The four groups include:

- dissolved organic matter
- inorganic macro-components – Ca, Mg, Na, K, ammonia, Fe, Mn, Cl, sulfate, and bicarbonate;
- heavy metals – Cd, Cr, Cu, Pb, Ni, and Zn; and
- xenobiotic organic compounds – aromatic hydrocarbons, phenols, and chlorinated aliphatics.

Although other constituents may be present in leachate from landfills, they are likely to be present at very low concentrations and are generally viewed as having a secondary importance (Christensen, et al 2001). Select metals have been infrequently detected previously in “A” zone groundwater. However; subsequent groundwater monitoring events indicated that these detections were not representative of “A” zone groundwater and/or not associated with landfill operations.

Chloride levels in “A” zone groundwater were evaluated for evidence of landfill impacts to groundwater. Chloride and sodium are inorganic constituents that are generally present at elevated levels in leachate and have been widely used as tracers for landfill impacts to groundwater. Table B-6 included in Appendix B of this report provides a summary of chloride concentrations reported from the baseline event (January 2004), prior to liner installation and the acceptance of waste, to the May 2010 sampling event. The average reported concentrations of chloride for the A-zone monitoring wells has increased gradually since the completion of the Phase 1 baseline monitoring event. If leachate were impacting groundwater, the chloride concentrations would be expected to increase proportionally with the increased chloride levels detected in the leachate samples. The reported chloride concentrations in leachate have ranged between 79 and 4,700 mg/L, which are much higher than background chloride levels. The increase in the number of wells where ammonia has been detected above the GCTL and the increase in concentrations may be attributable to the migration of landfill gas as seen with the detections of several volatile organic compounds. The ammonia detections will be addressed as part of the gas migration investigation mentioned in Section 6.2.10.

6.2.3 Beryllium

As shown on Figure 6-3, the GCTL for beryllium (4 µg/L) was exceeded at one well (MW-7A) during the first semi-annual monitoring event. The beryllium concentration of 5.1 µg/L for this sample was just slightly above the GCTL. The turbidity for MW-7A for this sample was 1,321 NTU, which is well above the SDWS of 20 NTU. The dissolved beryllium (filtered) concentration for this sample was below the PQL of 0.74 µg/L. It

appears likely that this elevated beryllium detection can be associated with the high turbidity level measured. The GCTL for Beryllium has not been exceeded in any of the monitoring wells during any of the last twelve monitoring events.

6.2.4 Chromium

Figure 6-4 shows the monitoring wells where the GCTL for chromium (100 µg/L) was exceeded in at least one monitoring event for three (3) monitoring wells (MW-4C, 7A, and 7B). The turbidity levels for these three samples for the first monitoring event ranged between 1,130 and 1,321 NTU. Chromium levels for these three wells in the other twelve monitoring events have all been well below the GCTL. These spikes in chromium concentrations are attributed to extremely high turbidities.

6.2.5 Iron

As shown in Figure 6-5, the GCTL for iron (0.3 mg/L) has been exceeded practically in every monitoring well during every monitoring event. Upward spikes in the iron concentrations seen during the first semi-annual event in the “B” and “C” zones wells can be attributed primarily to high turbidity levels. The source of the iron is naturally occurring. There appears to be no general trend in iron concentrations in the monitoring wells at the site. There is no substantial difference between the total and dissolved iron concentrations for samples with turbidity levels greater than 20 NTU.

6.2.6 Lead

Figure 6-6 shows the monitoring wells where the GCTL for lead (15 µg/L) was exceeded in at least one monitoring event for fifteen (15) monitoring wells (MW-7A, 19A, 3B, 6B, 7B, 8B, 9B, 11B, 12B, 16B, 20B, 21B, 22B, 4C, and 7C). A review of the data shows that all fifteen of the wells that exceeded the lead GCTL had turbidity levels significantly above the SDWS of 20 NTU (70 – 1,321 NTU). These turbidity levels have been shown on Figure 6-6 adjacent to the corresponding data points above the GCTL. Filtered (dissolved) samples from each of these fifteen wells were also analyzed for lead and all were non-detect for lead except for MW-7B, which still had a detection, but below the GCTL. Based on Figure 6-6, a downward trend is identified for all of these wells. Lead has not been detected above the GCTL in any well over the last four monitoring events. The exceedances are attributable to the high turbidity levels and not associated with landfill operations.

6.2.7 Toluene

As shown on Figure 6-7, an overall downward trend in toluene concentrations can be observed for the three (3) wells (MW-2A, 4A, and 5A) where the GCTL for toluene (40 µg/L) was exceeded in at least one monitoring event. Two of the toluene detections (MW-2A and 5A) were encountered during the baseline monitoring event for Phase 1. Toluene is commonly found in petroleum products. The toluene detections exceeding the GCTL have been limited to the “A” zone wells and are likely the result of heavy equipment usage during landfill construction and pre-landfill site usage. Toluene has not been detected above the GCTL in any of the site monitoring wells during the last eleven monitoring events.

6.2.8 Total Dissolved Solids (TDS)

Figure 6-8 shows an overall downward trend in TDS concentrations for the majority of the monitoring wells where the GCTL for TDS (500 mg/L) was exceeded in at least one monitoring event. A significant spike in the TDS concentration for MW-1A can be seen for the third semi-annual monitoring event, which appears to be a spurious result and not representative of TDS results for the same well during the other monitoring events where TDS ranged between 6 and 110 mg/L. The same can be said for elevated TDS concentrations detected in MW-7A, 7B and 7C during the first semi-annual monitoring event and MW-22B during the Phase 2 and 3 baseline event. These exceedances of TDS may be attributable to turbidity issues previously noted and are not associated with the landfill operations. Only monitoring wells MW-4B and MW-19A have exceeded the GCTL for TDS within the last five monitoring events. A trend in the TDS data is not discernable for these two wells.

6.2.9 Vanadium

Figure 6-9 shows the monitoring wells where the GCTL for vanadium (49 µg/L) was exceeded in at least one monitoring event for ten (10) monitoring wells (MW-7A, 3B, 7B, 8B, 9B, 11B, 12B, 22B, 4C, and 7C). A review of the data shows that for the baseline and first semi-annual monitoring events all wells that exceeded the vanadium GCTL had turbidity levels significantly above 20 NTU (130 – 1,321 NTU). Filtered (dissolved) samples from each of these wells were also analyzed for vanadium and all were non-detect for vanadium except for MW-7B, which still had a detection, but well below the GCTL. As shown on Figure 6-9, an overall downward trend in vanadium

concentrations can be observed. Vanadium has not been detected in any of these wells above the GCTL in the past six monitoring events.

6.2.10 Benzene

Figure 6-10 shows the monitoring wells where the GCTL for benzene (1 µg/L) was exceeded in at least one monitoring event for eight (8) monitoring wells (MW-1A, 3A, 8A, 9A, 10A, 11A, 12A, and 13A). Benzene has been detected in MW-9A since the sixth semi-annual monitoring event and the number of wells where benzene has been detected and in levels exceeding the GCTL has increased over the last five semi-annual monitoring events. A visible upward trend in the benzene concentrations is apparent in the eight wells listed above. It should be noted that the benzene detections are limited to the A-zone (shallow) monitoring wells.

It was originally thought that the early detections of benzene were attributable to residual contamination remaining from the erosion caused by surface water run-off from the landfill in the vicinity of MW-9A, but as benzene has been detected in more wells around the Phase 1 area it appears that this is not the primary cause of the elevated benzene detections. It appears more likely that the elevated benzene (and other VOCs) detections may be attributable to landfill gas. Omni is currently performing a gas migration investigation around the periphery of the landfill. The results of this investigation should determine if landfill gas is the source of the benzene detected in the monitoring wells.

6.2.11 Vinyl Chloride

Figure 6-11 shows the monitoring wells where the GCTL for vinyl chloride (1 µg/L) was exceeded in at least one monitoring event for three (3) monitoring wells (MW-1A, 9A, and 11A). Like benzene, vinyl chloride has been detected in MW-9A since the sixth semi-annual monitoring event and the number of wells where vinyl chloride has been detected and in levels exceeding the GCTL has increased over the last five semi-annual monitoring events. Vinyl chloride had not detected in any wells prior to the sixth monitoring event (February 2007). The cause of the vinyl chloride detections will be addressed as part of the gas migration investigation mentioned previously.

6.2.12 pH

A plot of the final field measured pH for each groundwater monitoring well in the network for each sampling event compared with the secondary drinking water standard (SDWS) for pH (between 6.5 and 8.5 standard units) is presented in Figure 6-12. The pH

values have been relatively consistent over the monitoring period. Figure 6-12 shows that the measured pH typically ranges between 4 and 6 standard units. All pH measurements are below the lower limit of the SDWS of 6.5 standard units, except for MW-22C where the measured pH has ranged between 6.68 and 6.99 standard units. These results can be attributable to the shallow nature of some monitoring wells and groundwater levels. The average pH for precipitation in Florida is 4.77 (Florida Geological Survey, 1992). The data obtained from the monitoring wells appear to be consistent with what would be expected in shallow groundwater from this environment.

6.2.13 Turbidity

As discussed in the baseline water quality reports for Phase 1 (May 2004) and Phases 2 and 3 (September 2007), the formation around the screened intervals consists primarily of a fine, brown to dark brown, silty sand. Due to the subsurface formation properties, fine-grained and colloidal material are able to pass through the sand filter pack in many wells, primarily in the B-zone and C-zone wells. Most of the intermediate and deep wells had turbidity values in excess of the 20-NTU criterion even after extended well development and the removal of multiple well volumes of water.

The difficulty in attaining the desired turbidity criterion was discussed at a meeting between Geosyntec Consultants and FDEP on January 12, 2004. In accordance with these discussions, it was agreed to collect field-filtered (1-micron) and unfiltered samples for metals analyses for any sample with a turbidity value greater than 20 NTU. The data generated by the dual sampling is expected to help demonstrate: (i) what effect turbidity may have on metal analyses (i.e., compare total and dissolved metal concentrations); and (ii) whether groundwater samples with turbidities greater than 20 NTU showed higher concentrations of metals than those samples with turbidities less than 20 NTU. The overall goal is to establish a site-specific turbidity level at which samples could be collected in future sampling events without the need of collecting filtered samples.

Overall, the turbidity levels have improved dramatically from the initial background (Baseline) events for Phase 1 (MW-1 thorough MW-15) and the Phase 2 and 3 monitoring well networks (MW-16 thorough MW-23) to the most recent semi-annual event completed in May 2010. The number of wells requiring the collection of a filtered metals sample has decreased dramatically from twenty-nine (29) wells during the initial background event for Phase 1 to one well (MW-19A) during the twelfth semi-annual monitoring event completed in May 2010.

A plot of the final field-measured turbidity for each groundwater monitoring well in the network for each sampling event compared with the secondary drinking water standard (SDWS) for turbidity (below 20 NTUs) is presented in Figure 6-13. An overall downward trend in the turbidity levels can be observed.

Based upon a review of Figure 6-13, the measured turbidities for all of the “A” zone wells, except MW-19A are below the SDWS. The “B” and “C” zone wells have shown an improvement in turbidity levels since the initial background events. During the last three (tenth through twelfth) semi-annual monitoring events, only MW-16B, 4C, and 19C have exceeded the SDWS for turbidity.

6.3 Surface Water

6.3.1 pH

A plot of the field-measured pH for each surface water monitoring location in the network for each sampling event compared with the Class III surface water quality standard (SWQS) for pH (between 6.0 and 8.5 standard units) is presented in Figure 6-14. The pH values have been relatively consistent over the monitoring period. Figure 6-14 shows that the measured pH typically ranges between 3.6 and 6.1 standard units. The pH values have been below the SWQS acceptable pH range of approximately 6.0 to 8.5 standard units from Jan 2004 to May 2010 with the exception of the Jan 2004 baseline event for the SW-3 location (6.09). The average pH for precipitation in Florida is 4.77 (Florida Geological Survey, 1992). The pH data obtained from the monitoring wells appears to be consistent with that of the surface water samples. The low pH values detected from the surface water samples are consistent with the environmental conditions in the region.

6.3.2 Dissolved Oxygen

A plot of the field measured DO levels are presented on Figure 6-14. The dissolved oxygen (DO) concentrations in the surface water samples collected at the two monitoring stations (SW-3 and SW-4) were below the SWQS of 5 milligrams per liter (mg/L) during the monitoring events performed during the summer months (i.e., May and July) except for SW-3 measured during the fifth monitoring event. The most likely explanation for the decrease in DO is warmer surface water temperatures and algal blooms consuming DO in greater amounts during the summer months. Alternatively, the results could be

due to a lack of precipitation immediately prior to sampling. In either case, it is highly unlikely that these are the reflection of any landfill impacts.

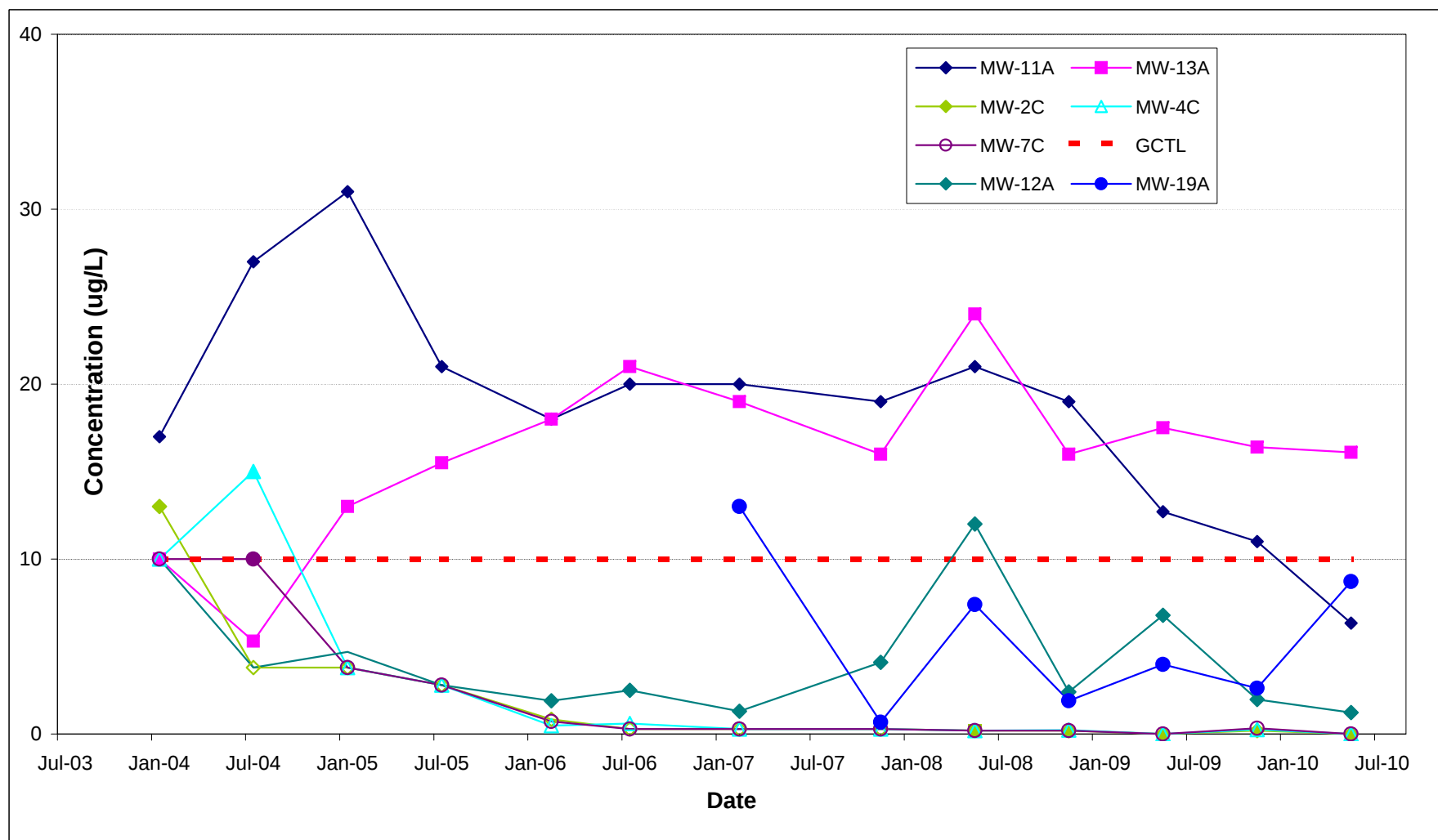
6.3.3 Iron

Figure 6-14 shows the iron concentrations in the two surface water locations for the twelve monitoring events. The SWQS for iron is 1 mg/L. With the exception of the baseline (January 2004), tenth (May 2009), and twelfth (May 2010) semi-annual monitoring events, there have been no other exceedances of the iron SWQS in any of the surface water samples collected. No discernable trend is apparent, but iron concentrations are typically below the 1 mg/L standard.

6.3.4 Fecal Coliform

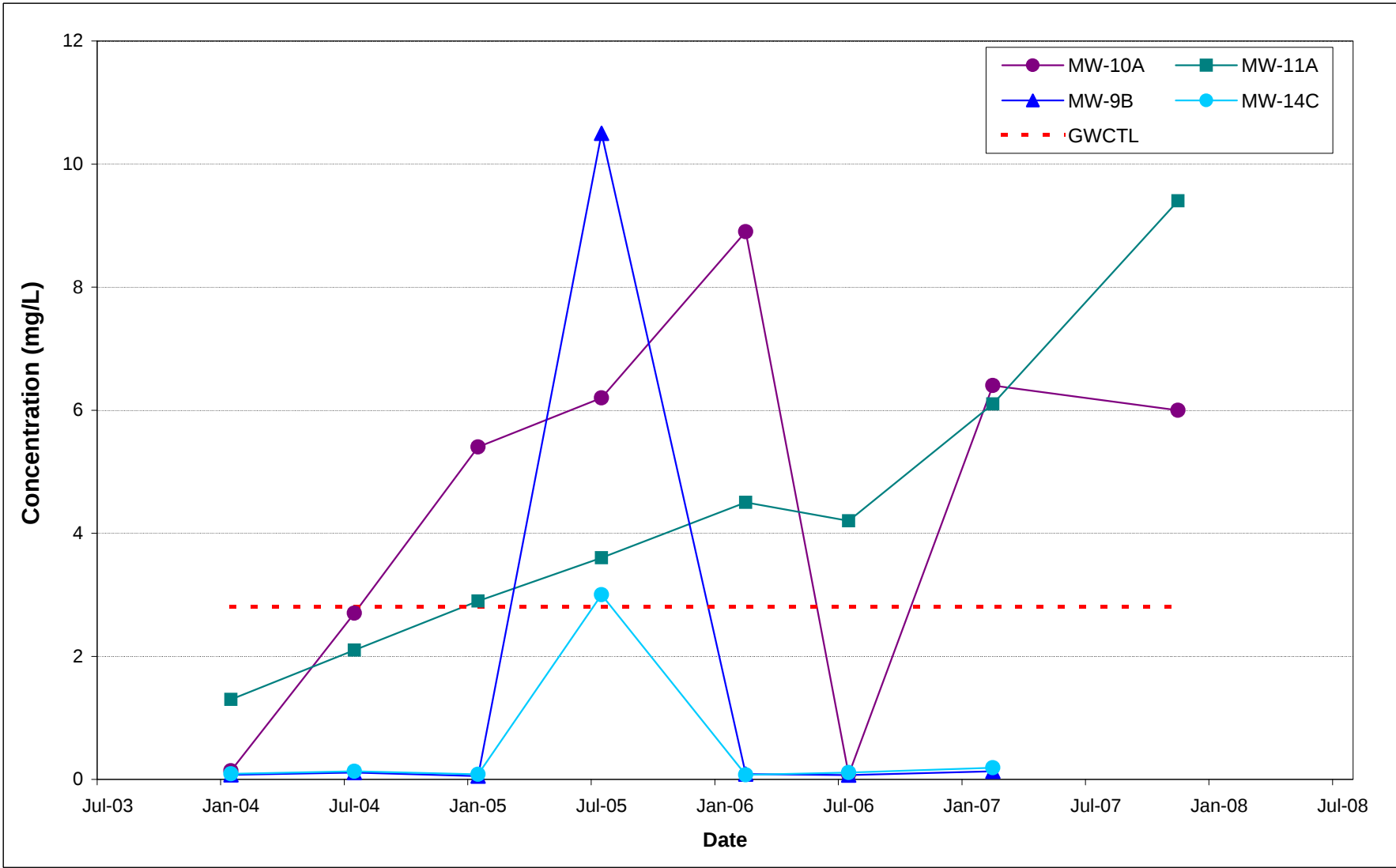
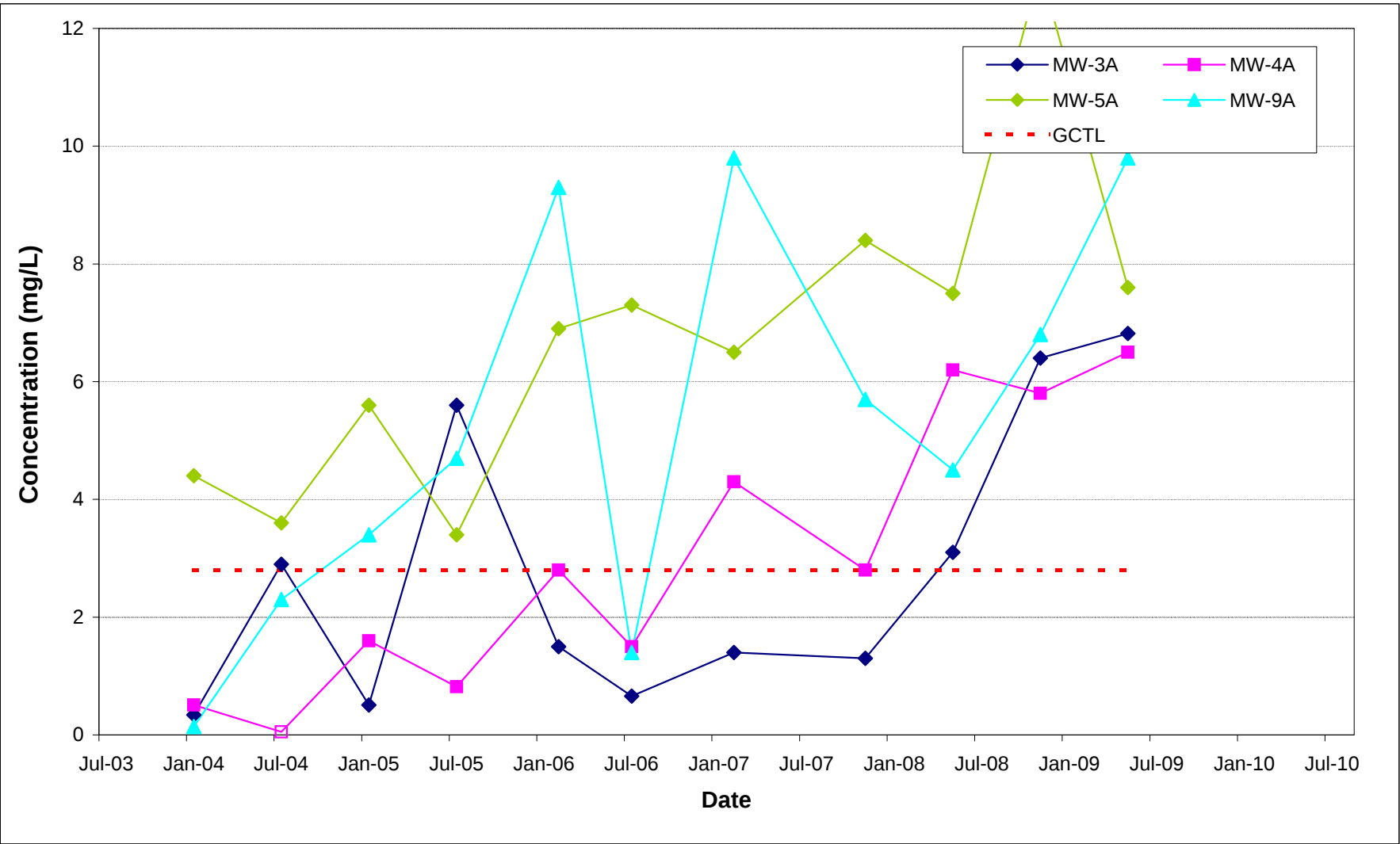
Table 5-13 presents that the fecal coliform concentrations for the SW-4 (upstream or background) monitoring station exceeded the SWQC for a Class III water standard of 800 #/100ml during the seventh and eighth semi-annual monitoring events. Please note that the fecal coliform testing requirement commenced during seventh semi-annual monitoring event (November 2007). Although the SWQC was exceeded, this monitoring location is upstream of the site. The fecal coliform concentrations for the downstream monitoring station (SW-3) were below the SWQC Class III level. Therefore, it is highly unlikely that these are the reflection of any landfill impacts and are related to cattle and wildlife activities in the surrounding areas.

Figure 6-1
Groundwater Trends - Arsenic
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J.E.D. Solid Waste Management Facility



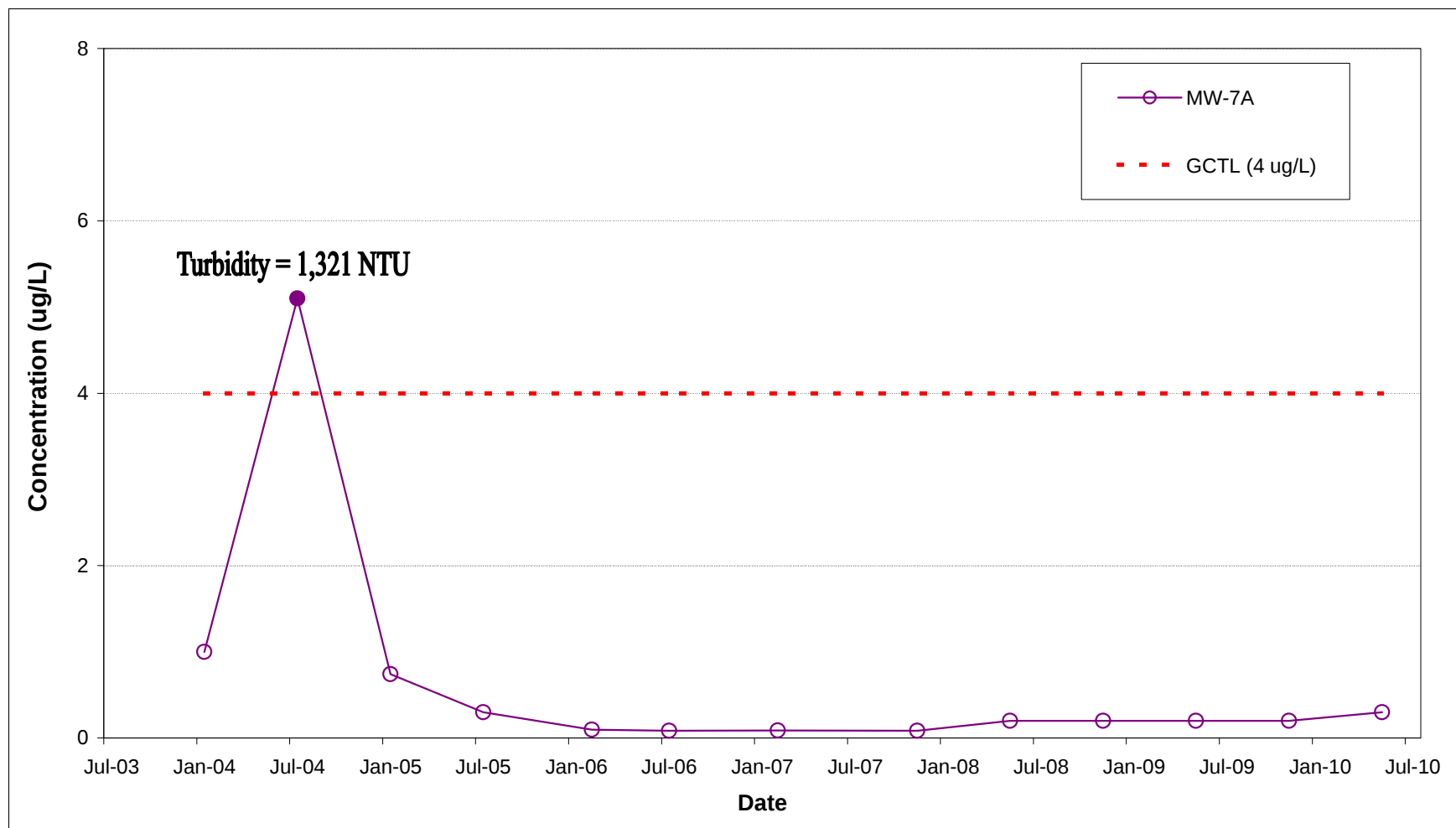
GCTL = Groundwater Cleanup Target Level (10 ug/L)

Figure 6-2
Groundwater Trends - ~~Ammonia-N~~
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Notes:
GCTL = Groundwater Cleanup Target Level (2.8 mg/L)

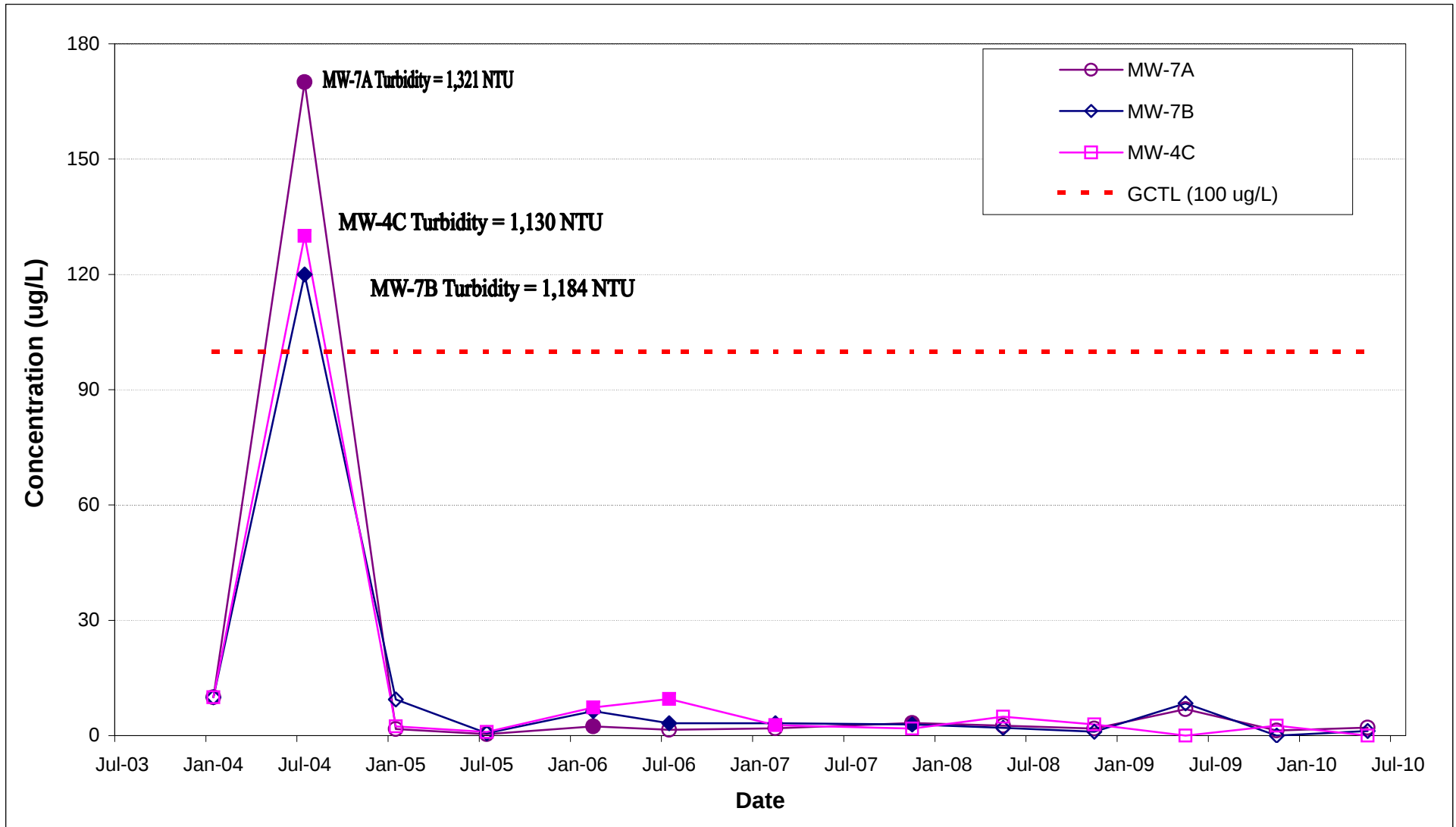
Figure 6-3
Groundwater Trends - Beryllium
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GCTL = Groundwater Cleanup Target Level (4 ug/L)

Open symbols indicate non-detects and closed symbols indicate detections.

Figure 6-4
Groundwater Trends - Chromium
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Notes:

GWCTL = Groundwater Cleanup Target Level (100 ug/L)

Open symbols indicate non-detects and closed symbols indicate detections.

Figure 6-5 (1 of 3)
Groundwater Trends - Iron
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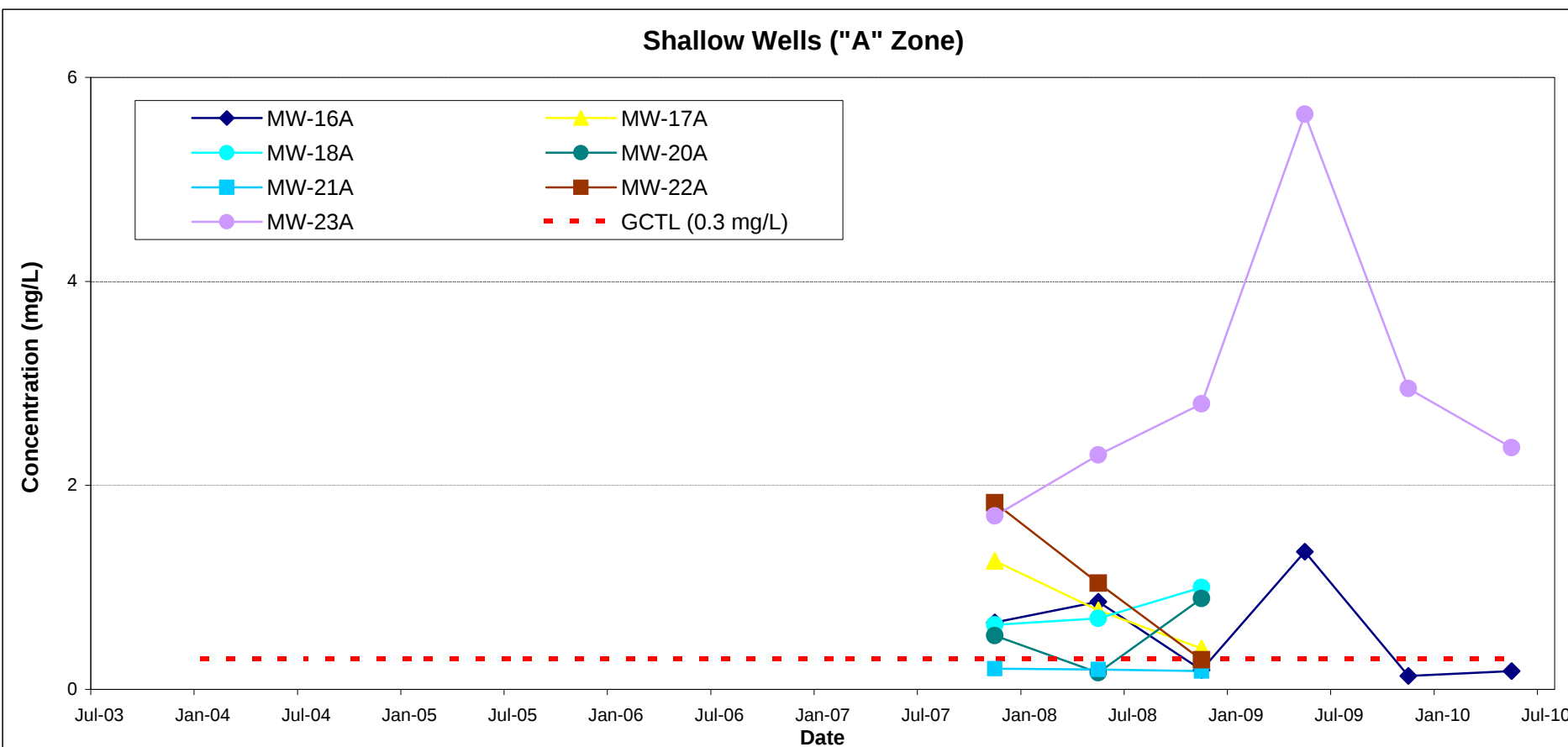
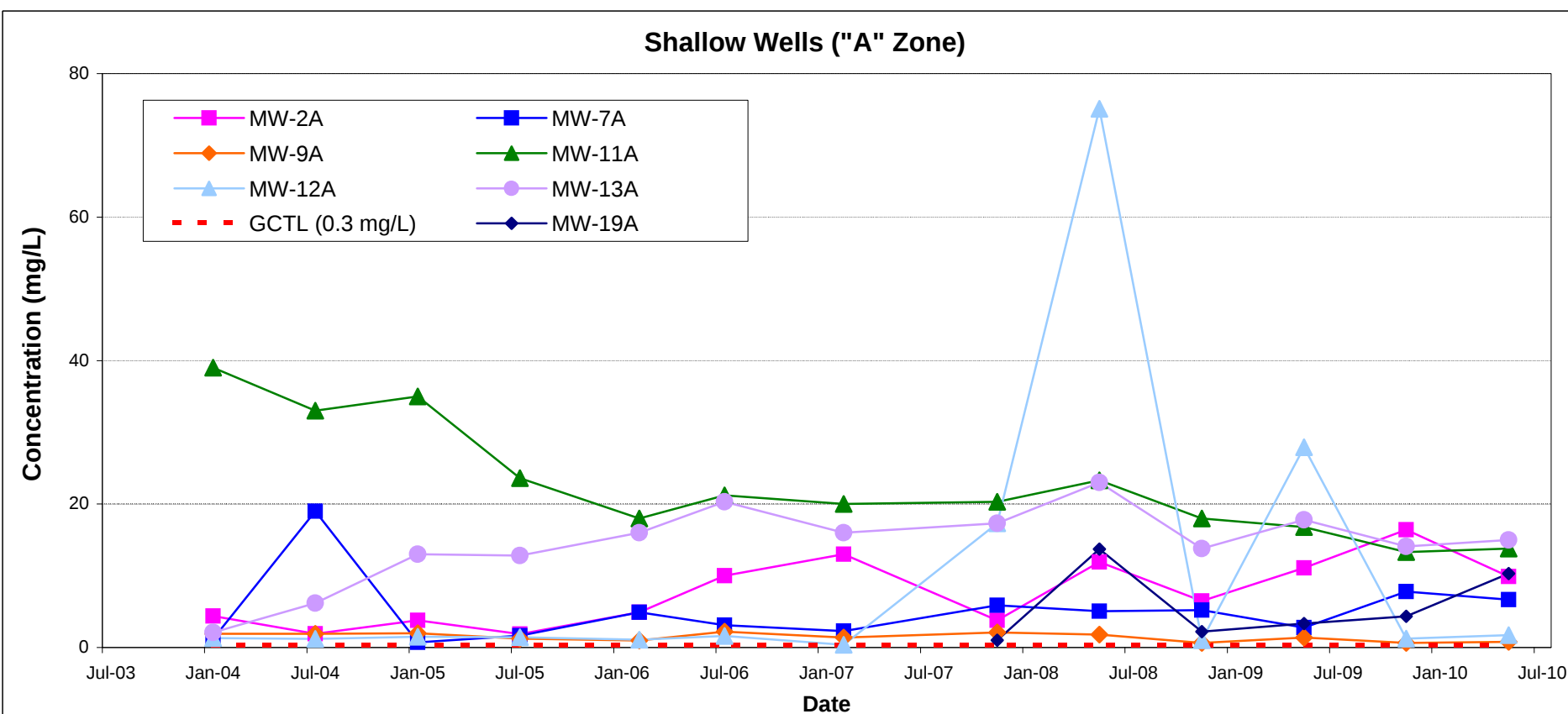
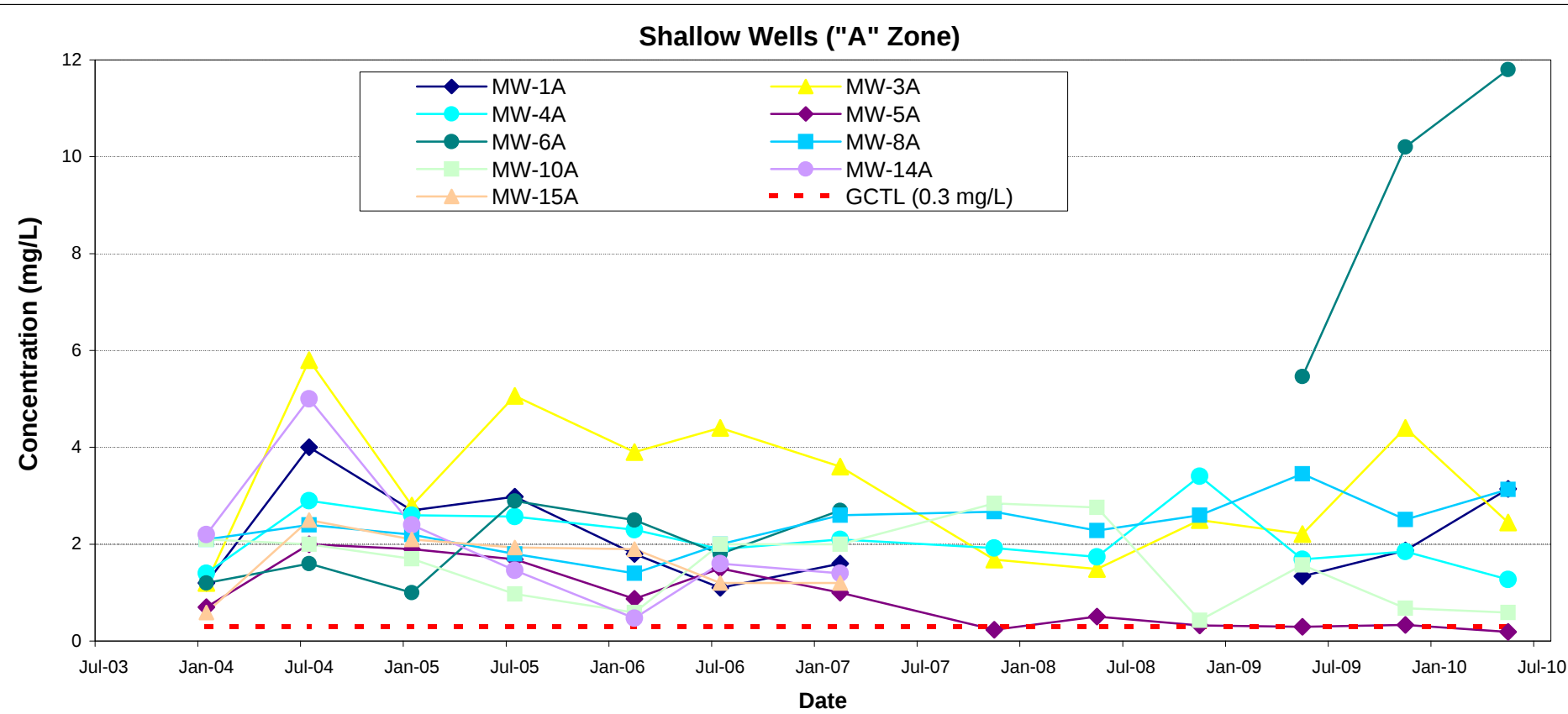


Figure 6-5 (2 of 3)
Groundwater Trends - Iron
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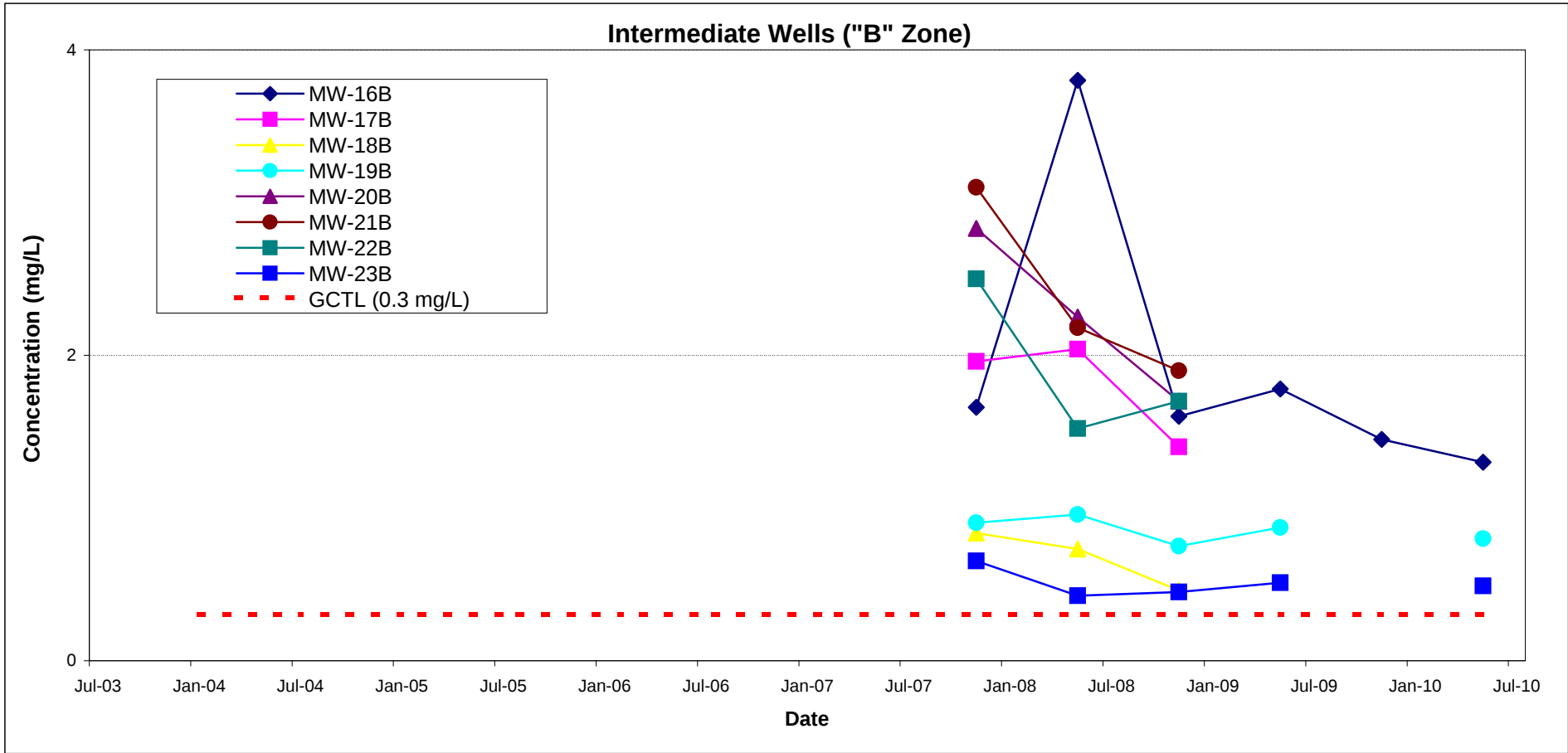
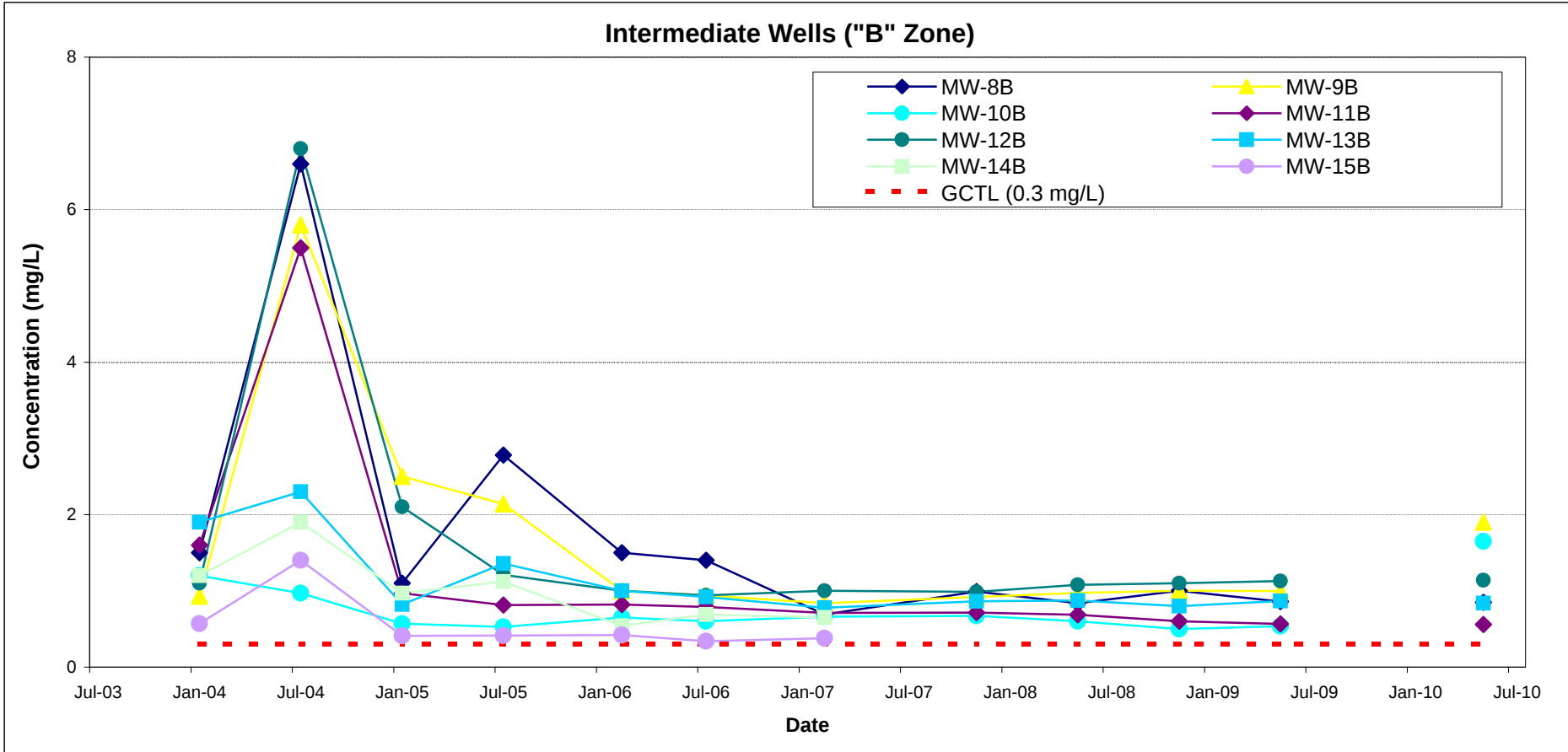
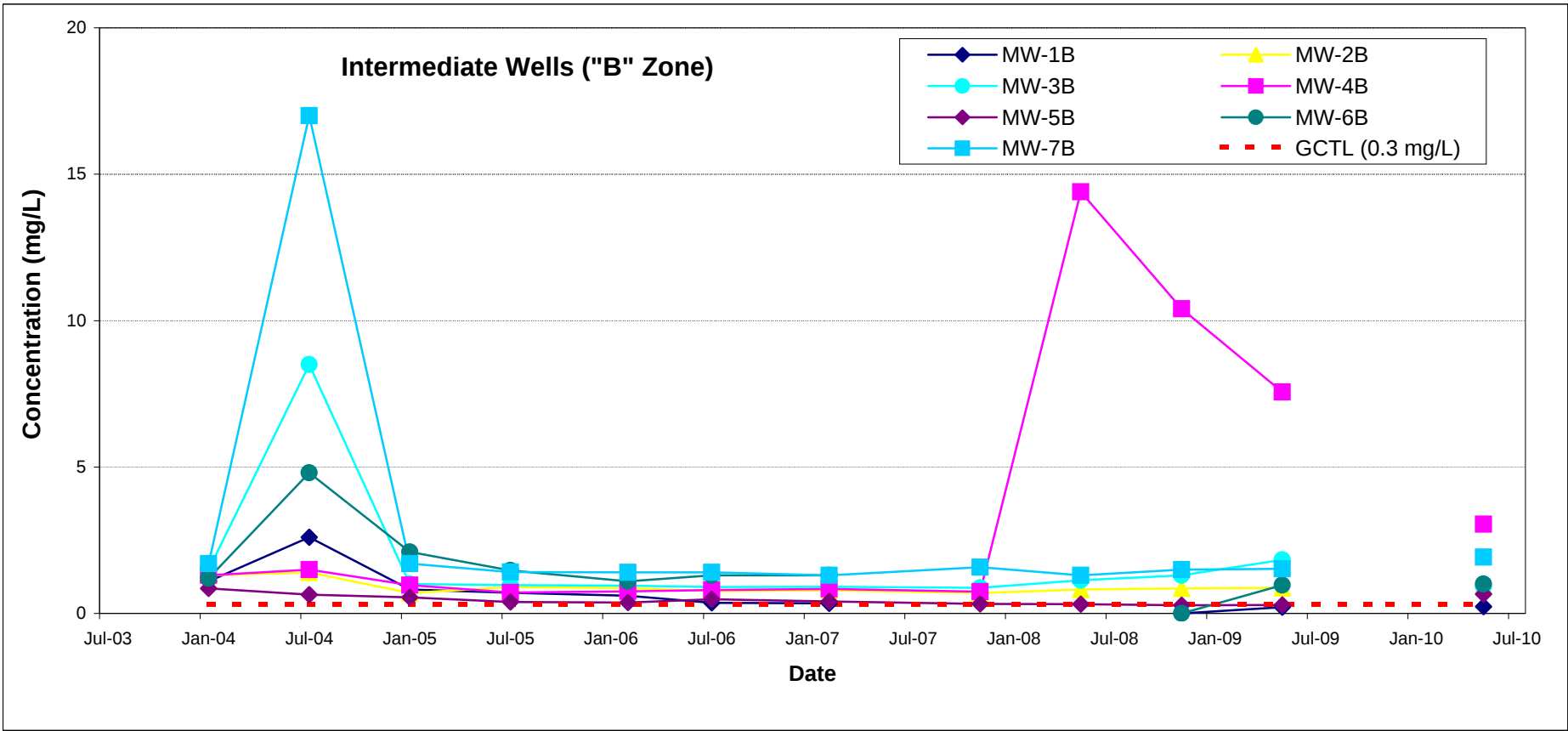
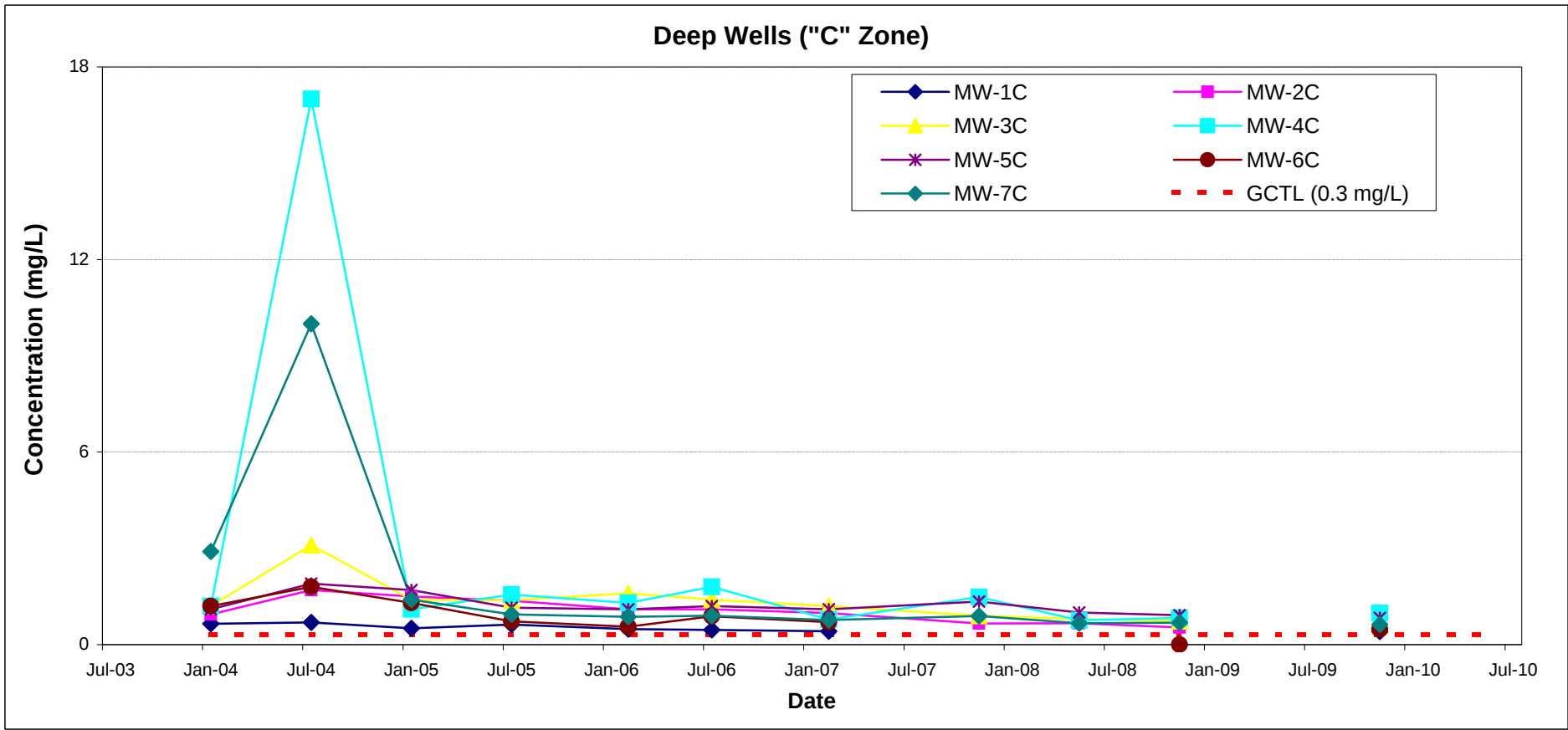
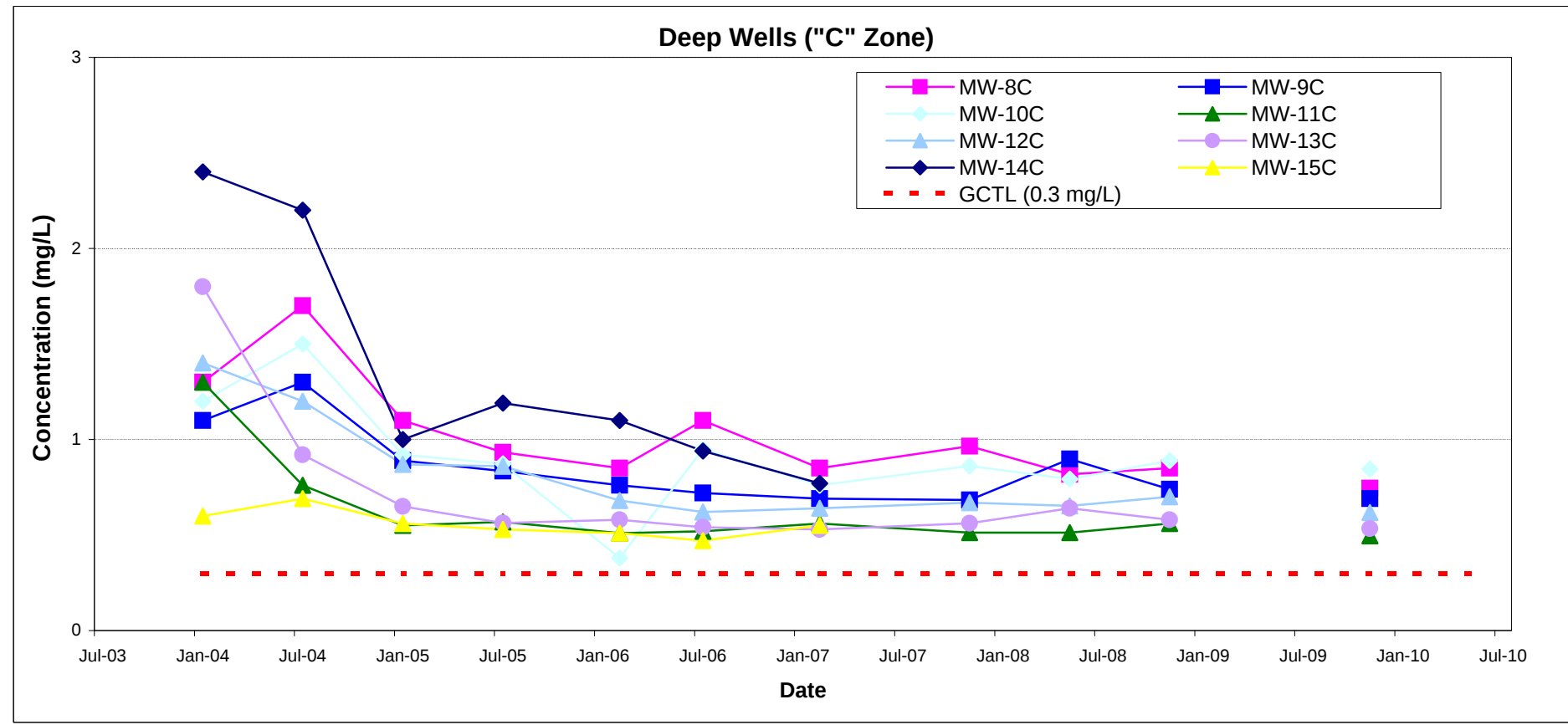


Figure 6-5 (3 of 3)
Groundwater Trends - Iron
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Deep Wells ("C" Zone)



Deep Wells ("C" Zone)



Deep Wells ("C" Zone)

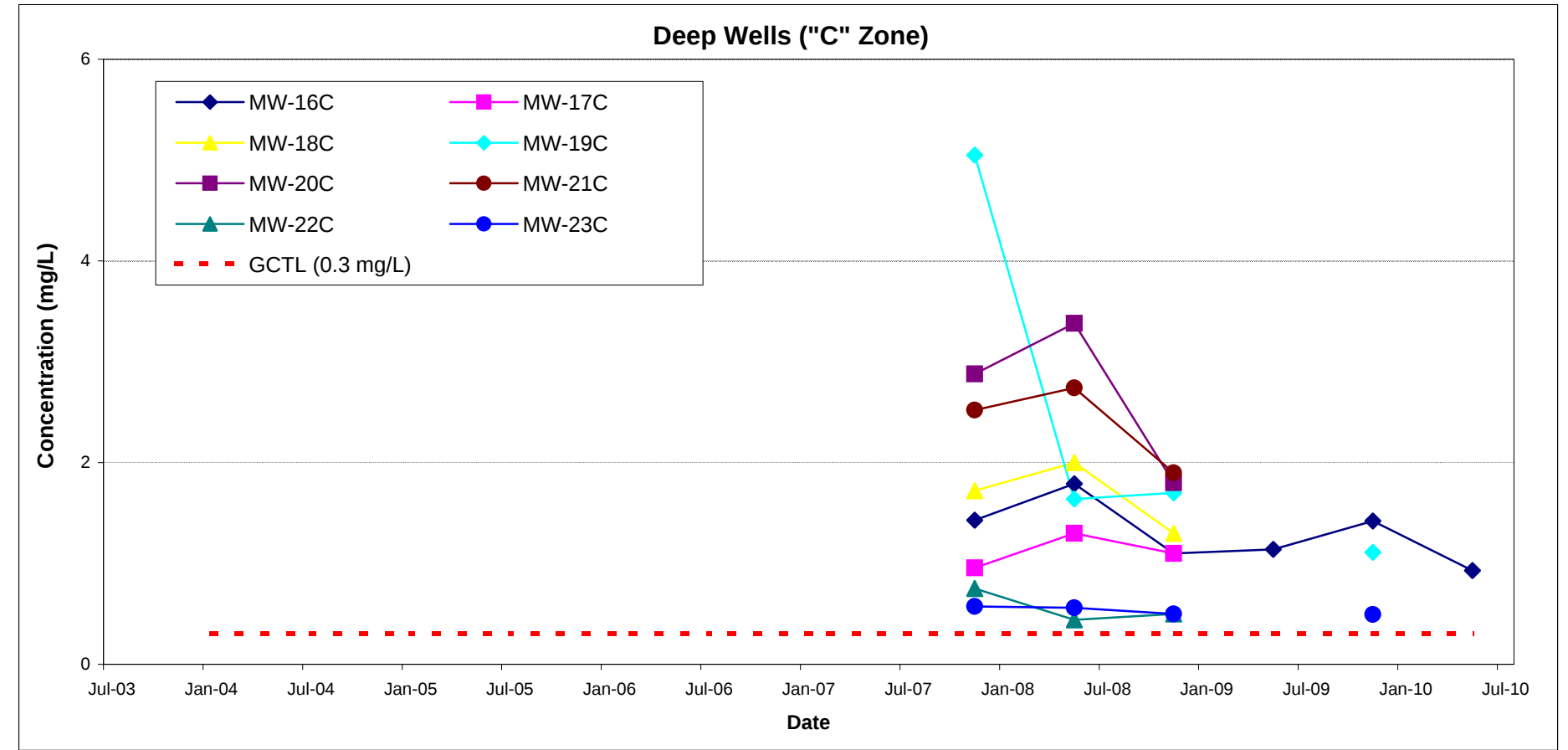


Figure 6-6
Groundwater Trends - Lead
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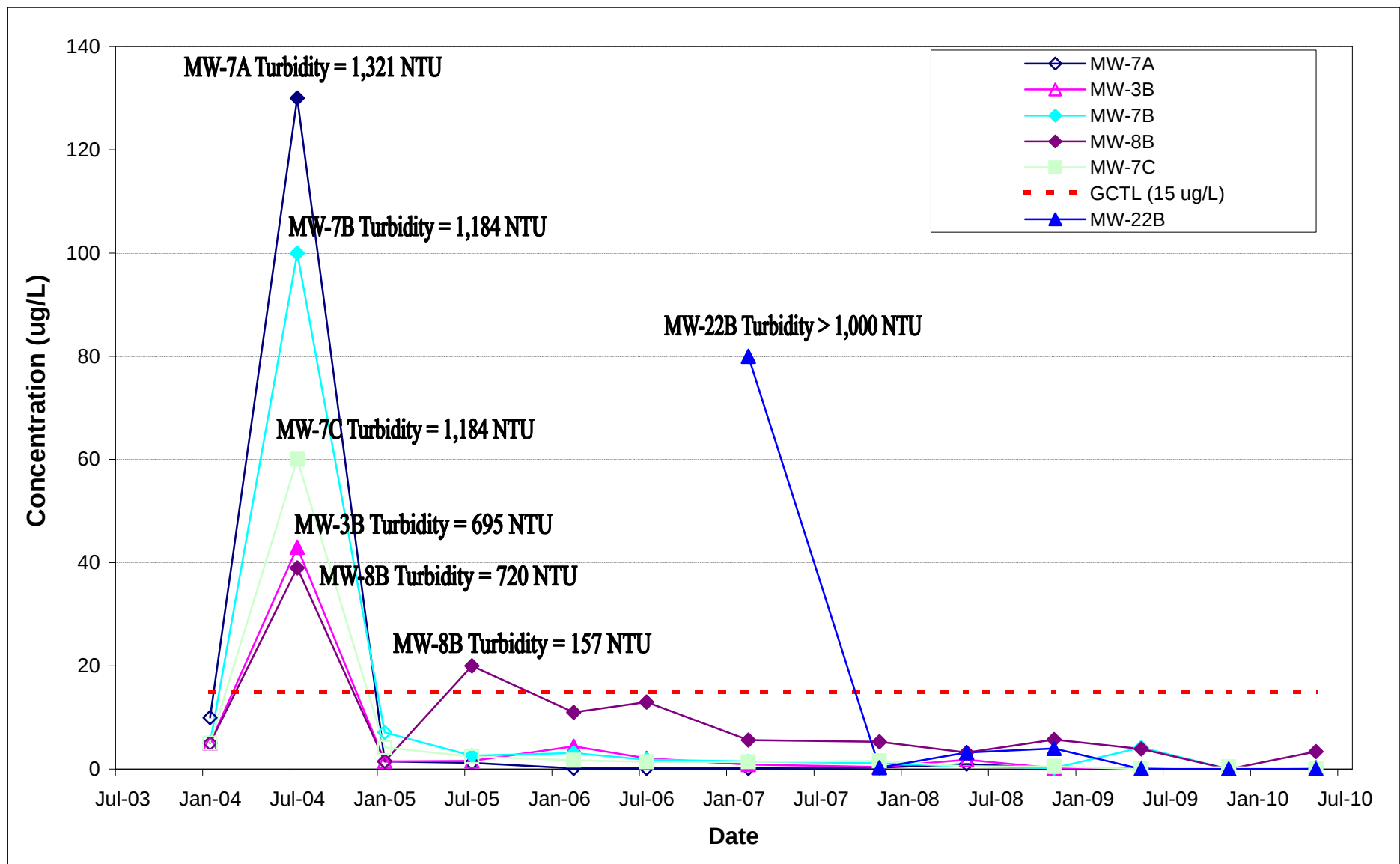
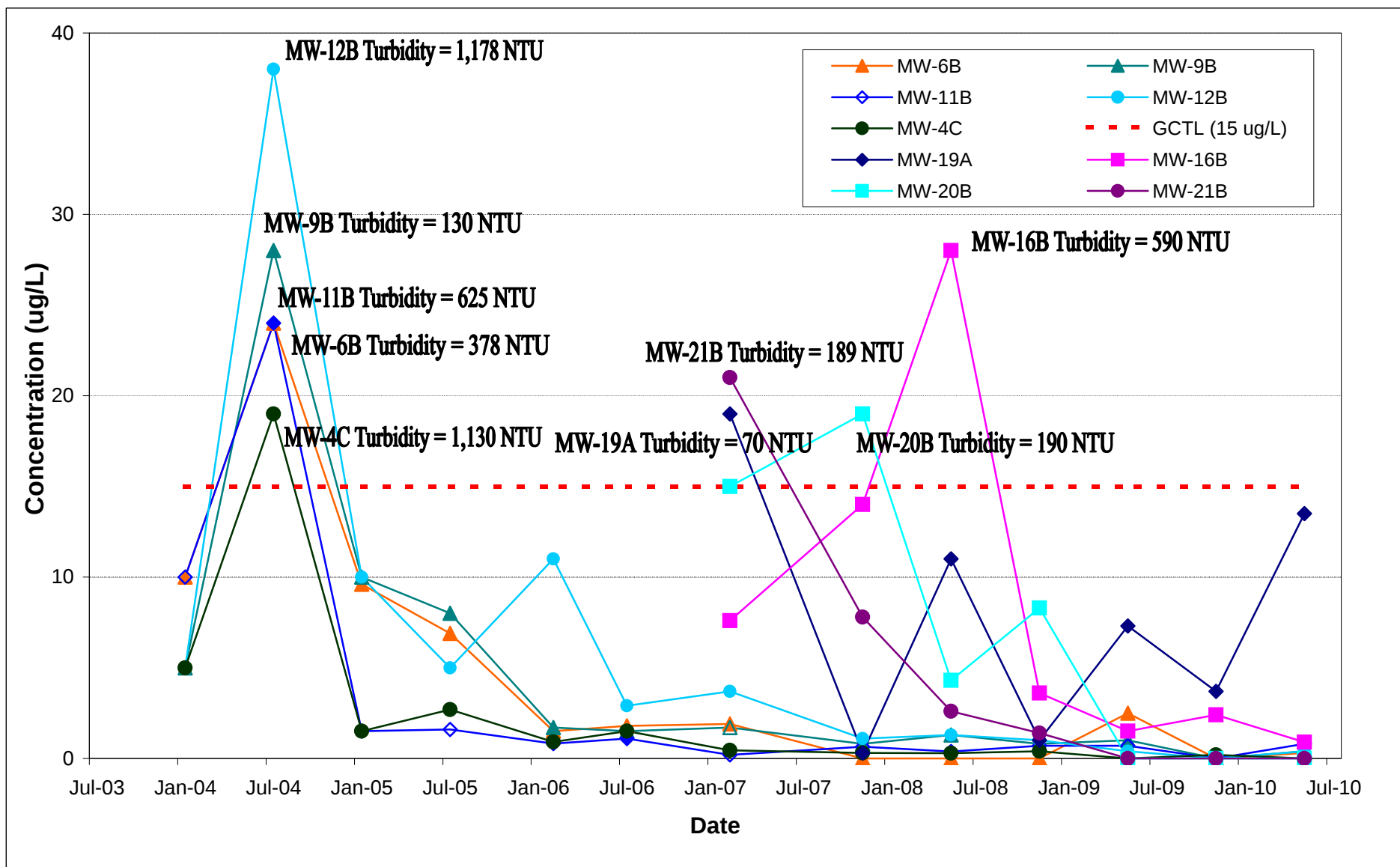


Figure 6-7
Groundwater Trends - Toluene
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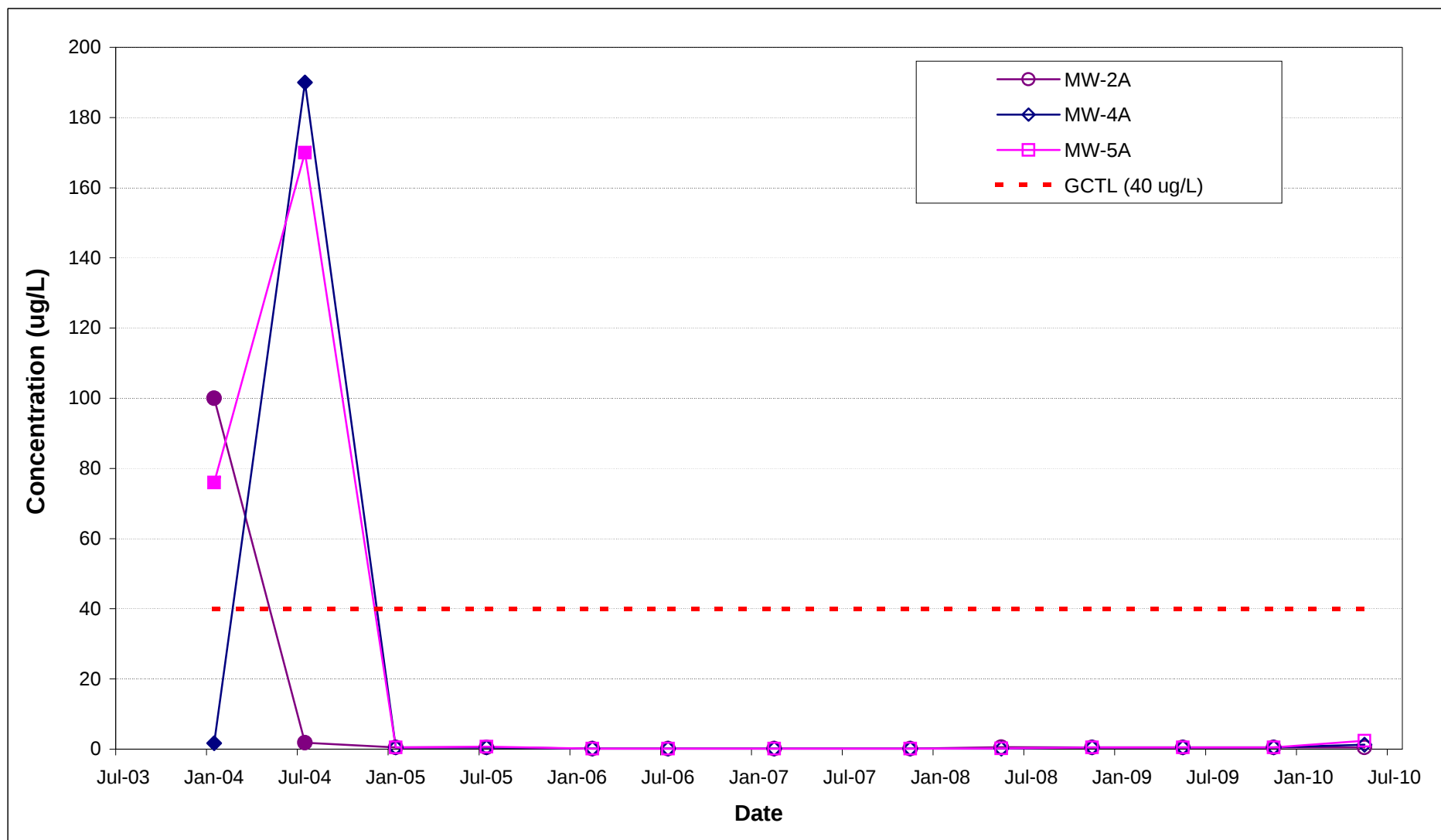


Figure 6-8
Groundwater Trends - Total Dissolved Solids
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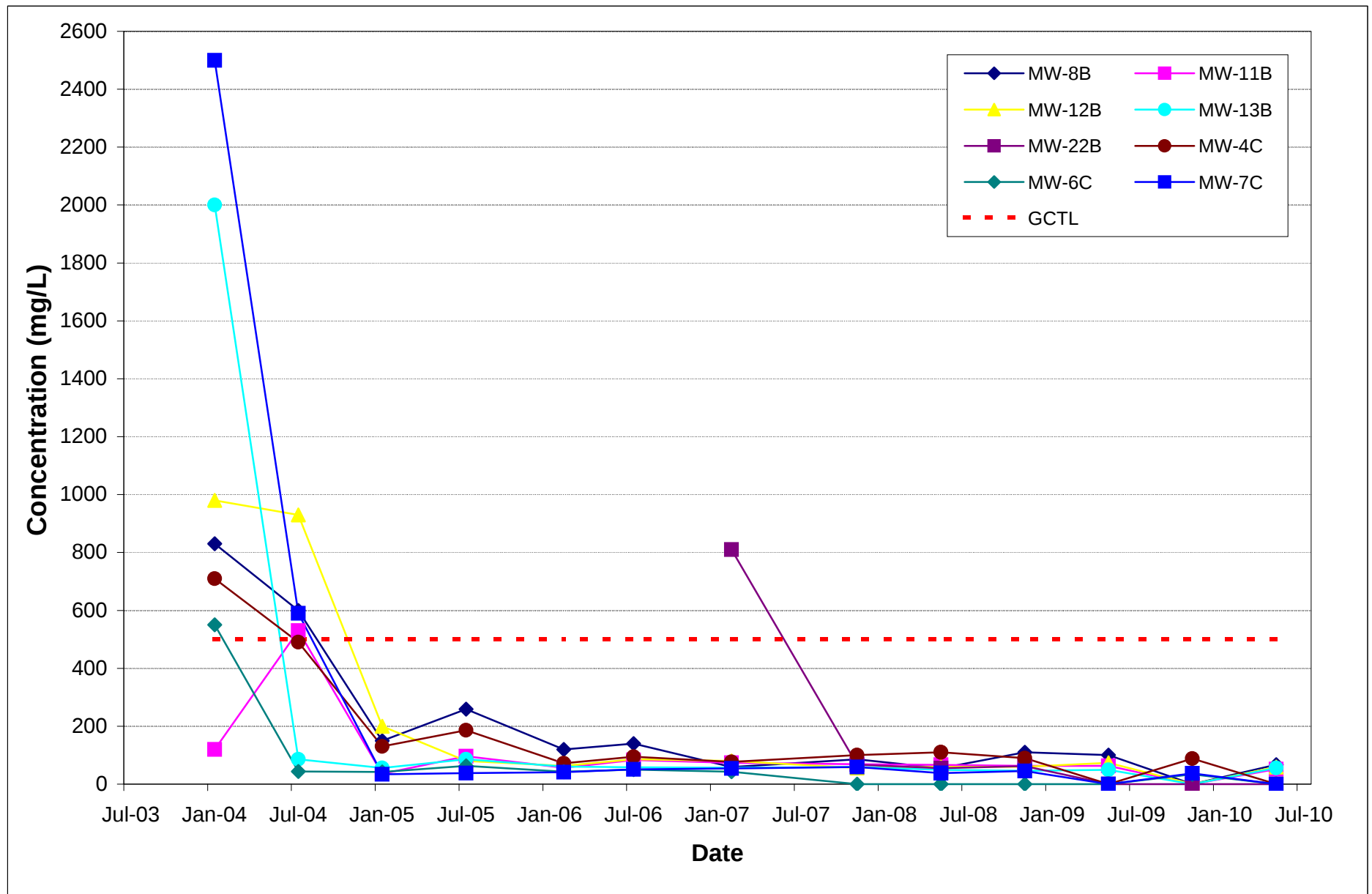
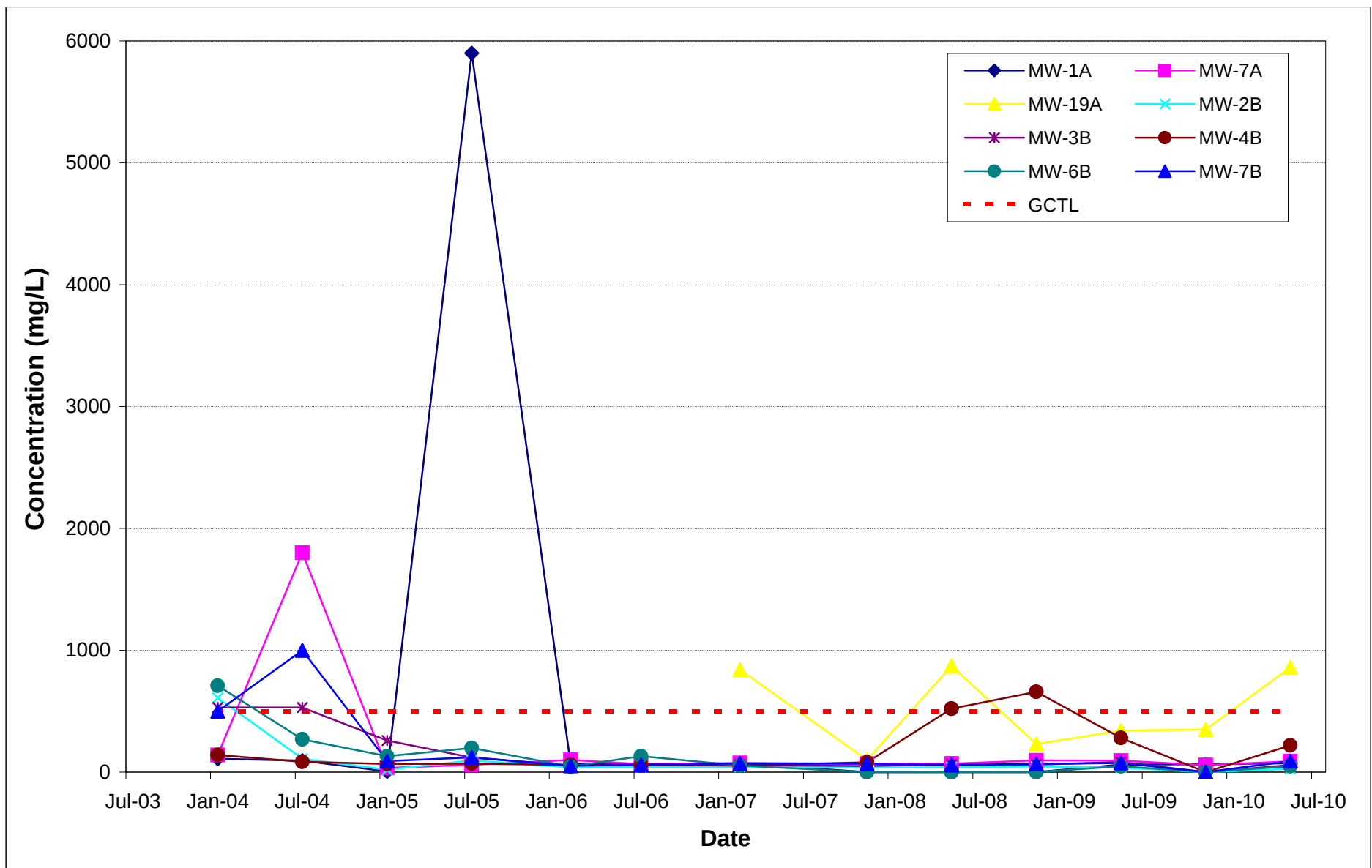


Figure 6-9
Groundwater Trends - Vanadium
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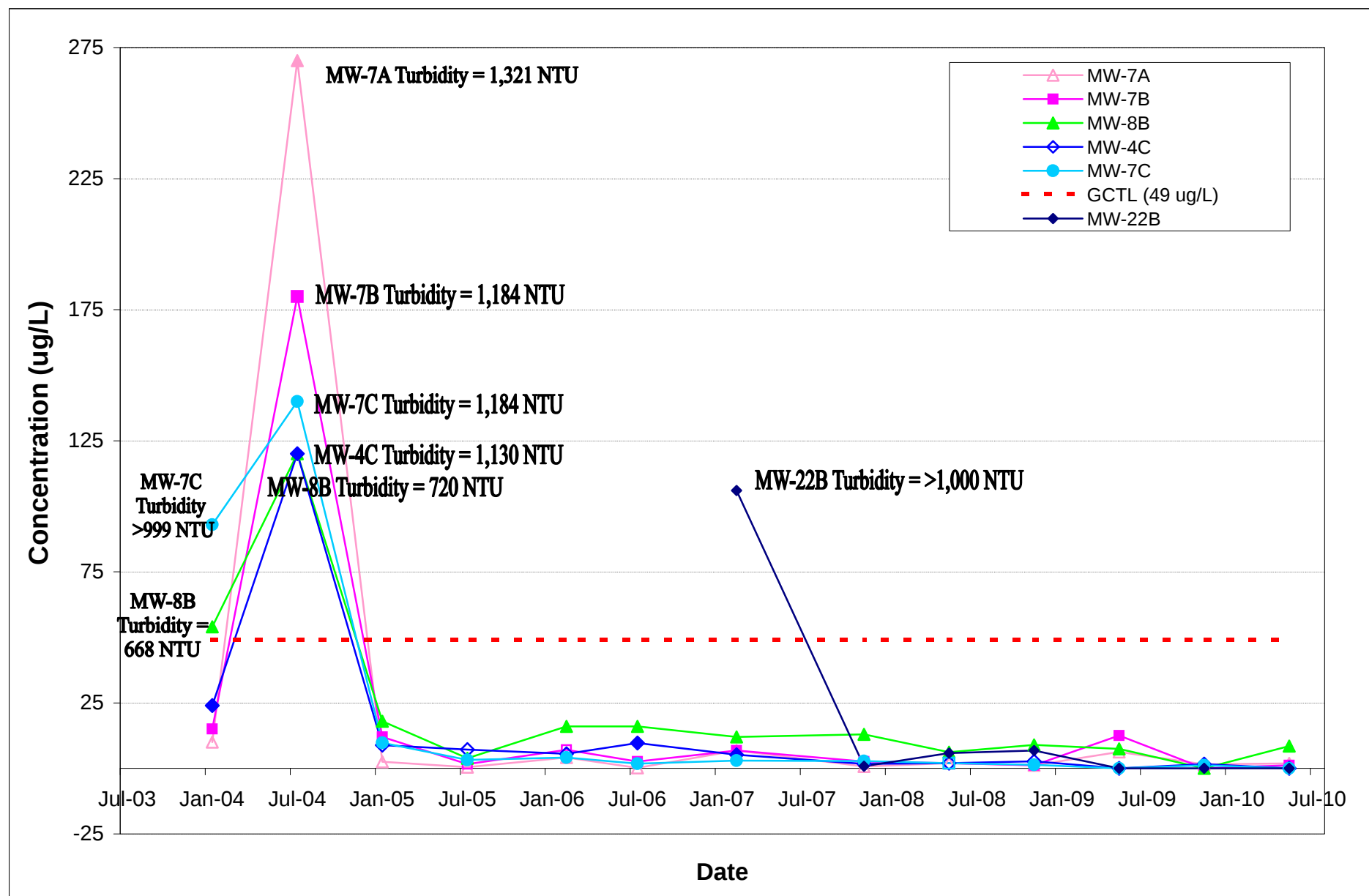
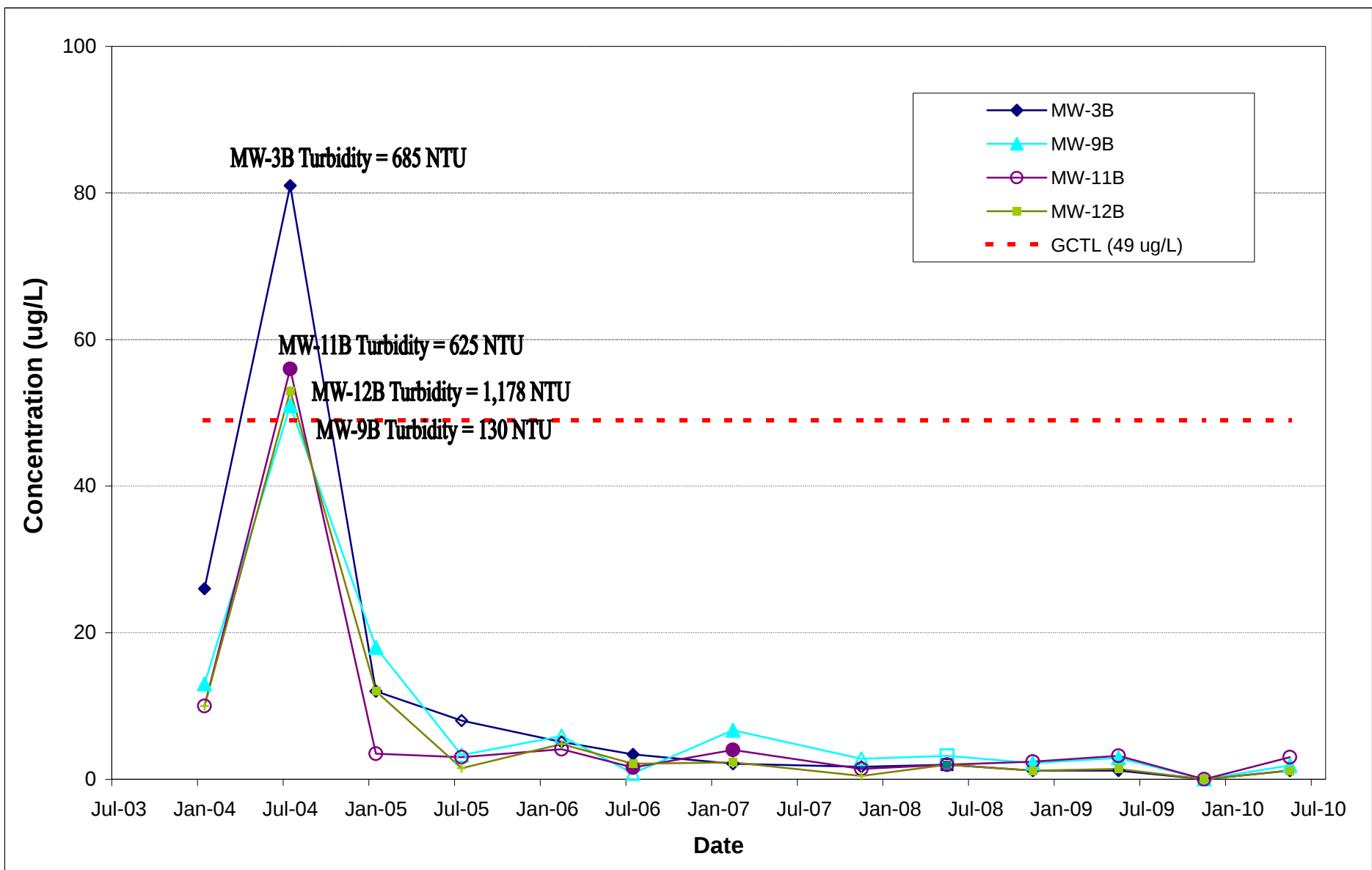


Figure 6-10
Groundwater Trends - Benzene
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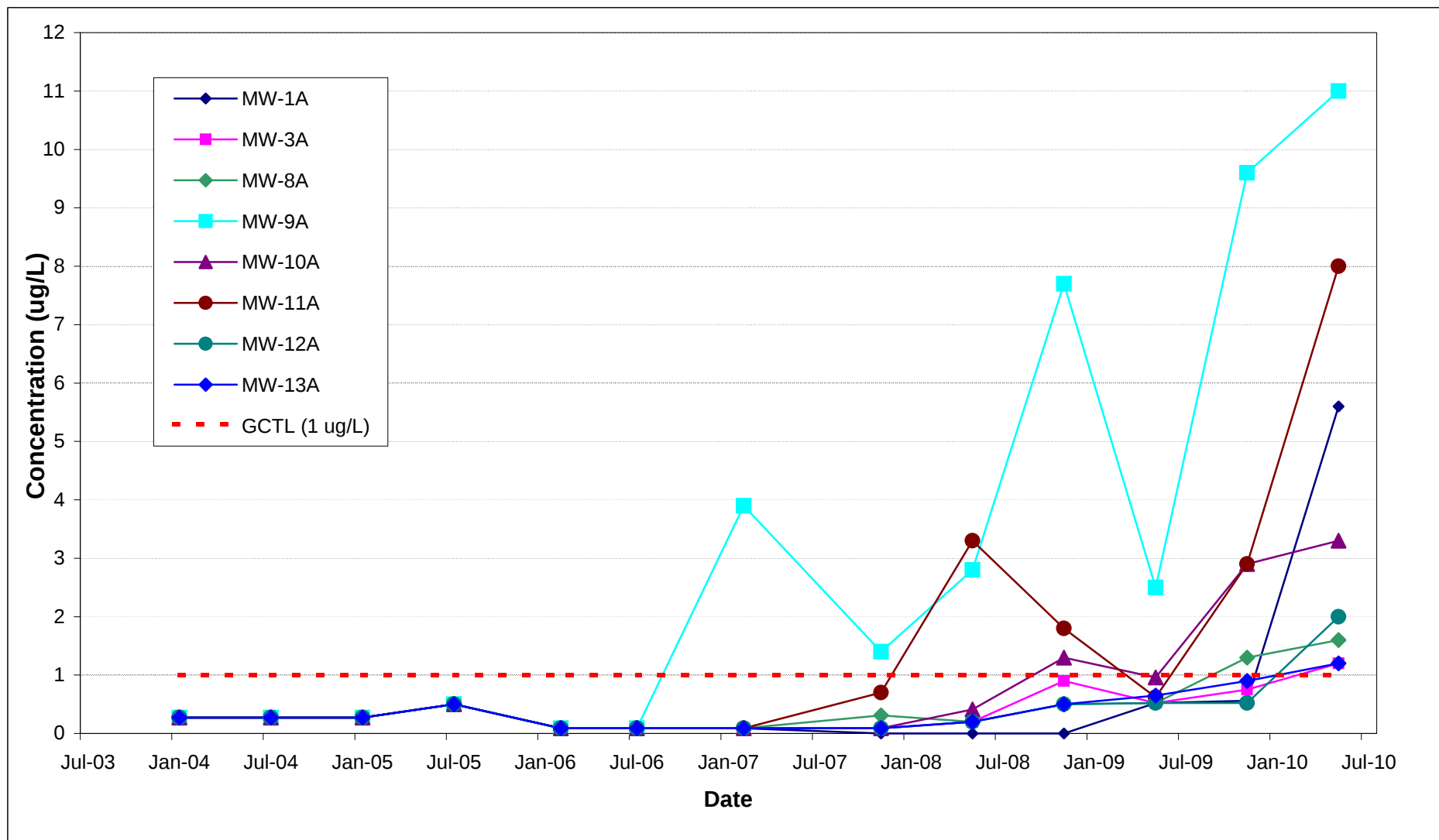


Figure 6-11
Groundwater Trends - Vinyl Chloride
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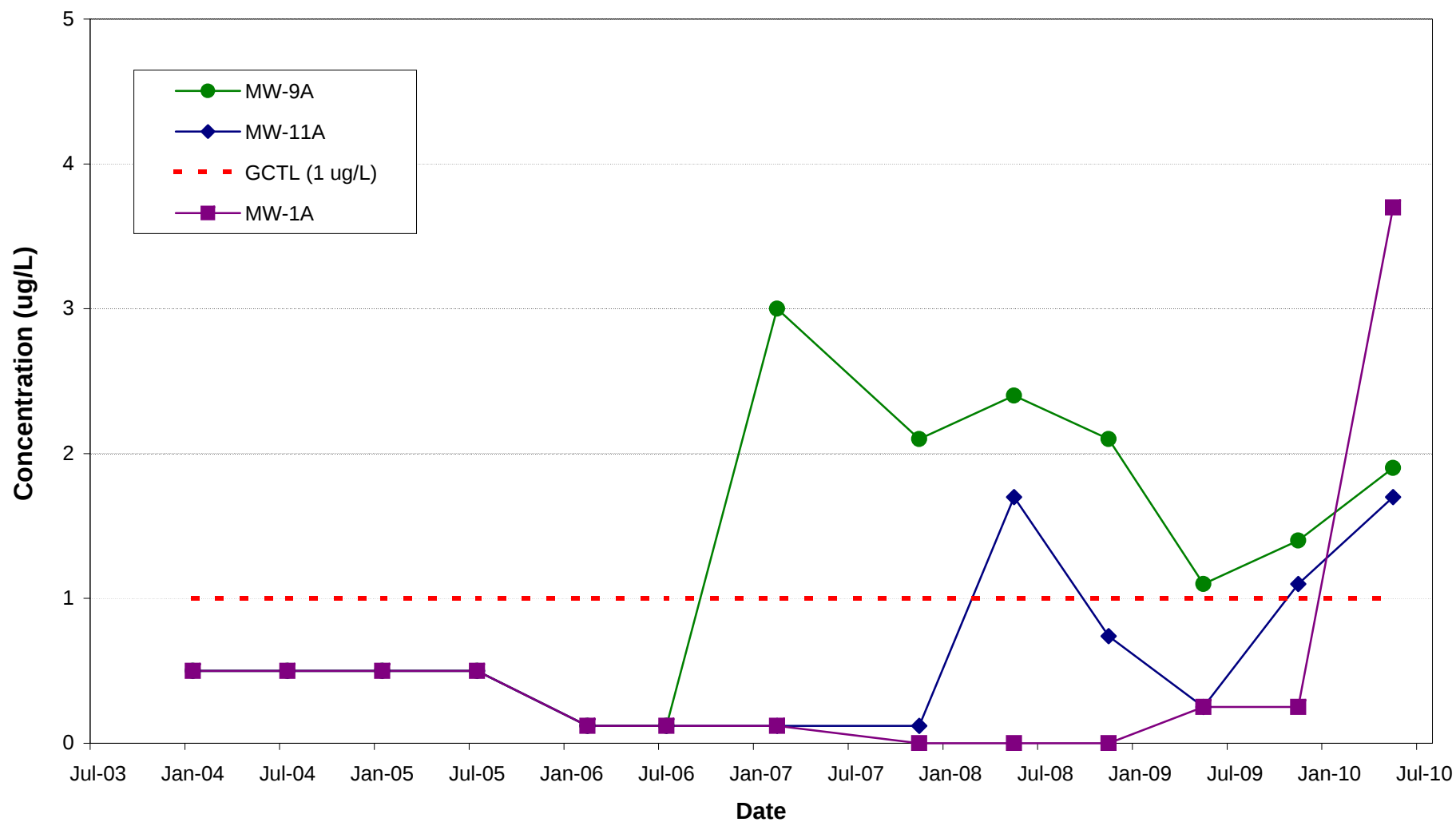


Figure 6-12 (1 of 3)
Groundwater Trends - pH
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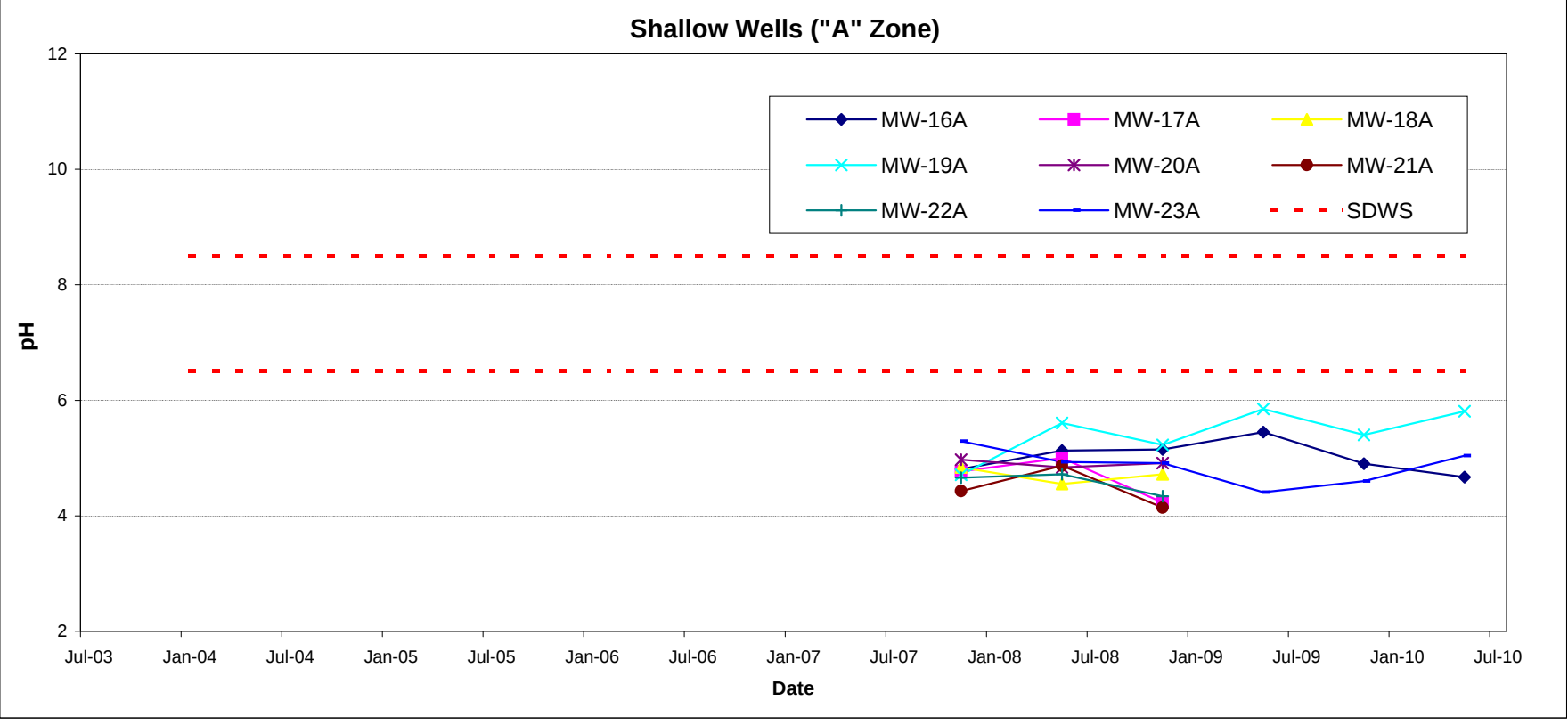
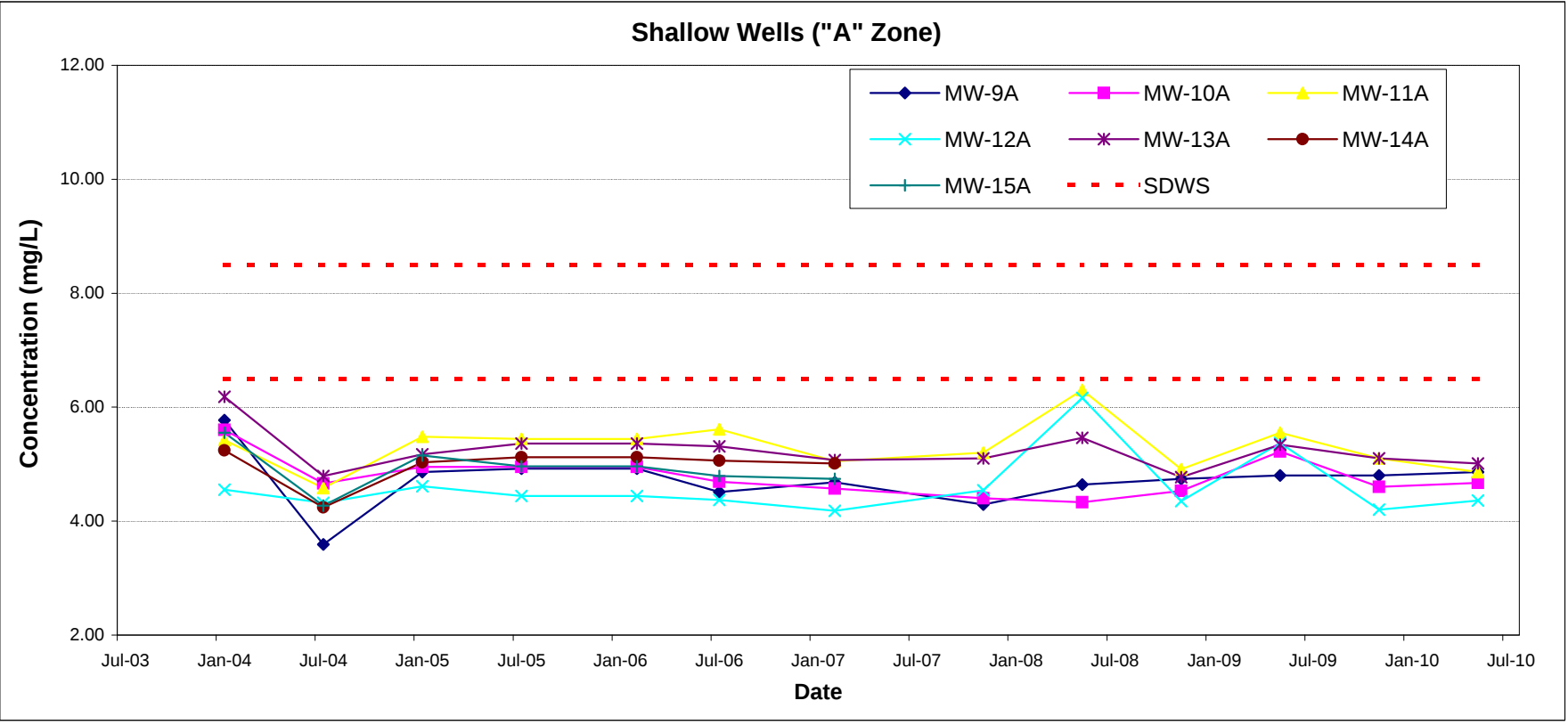
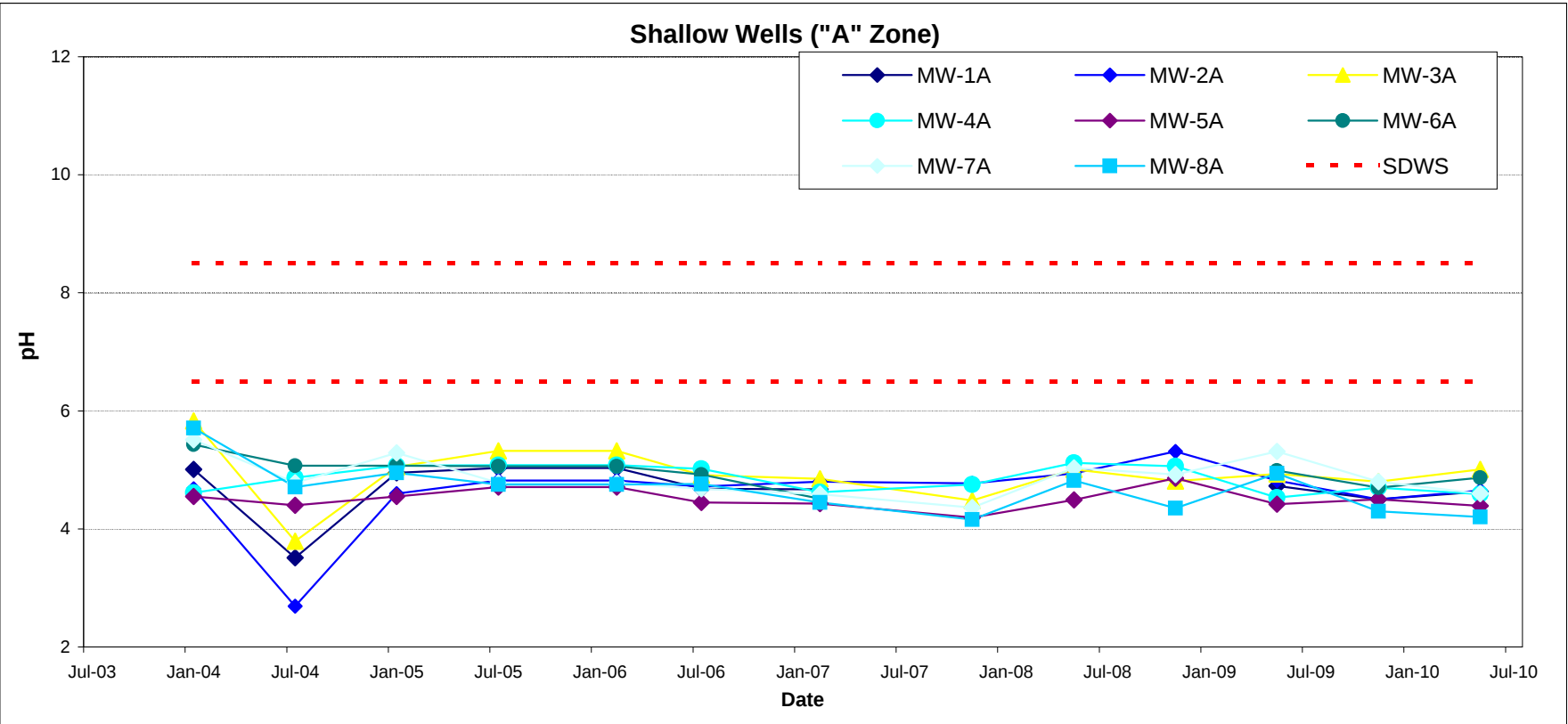


Figure 6-12 (2 of 3)
Groundwater Trends - pH
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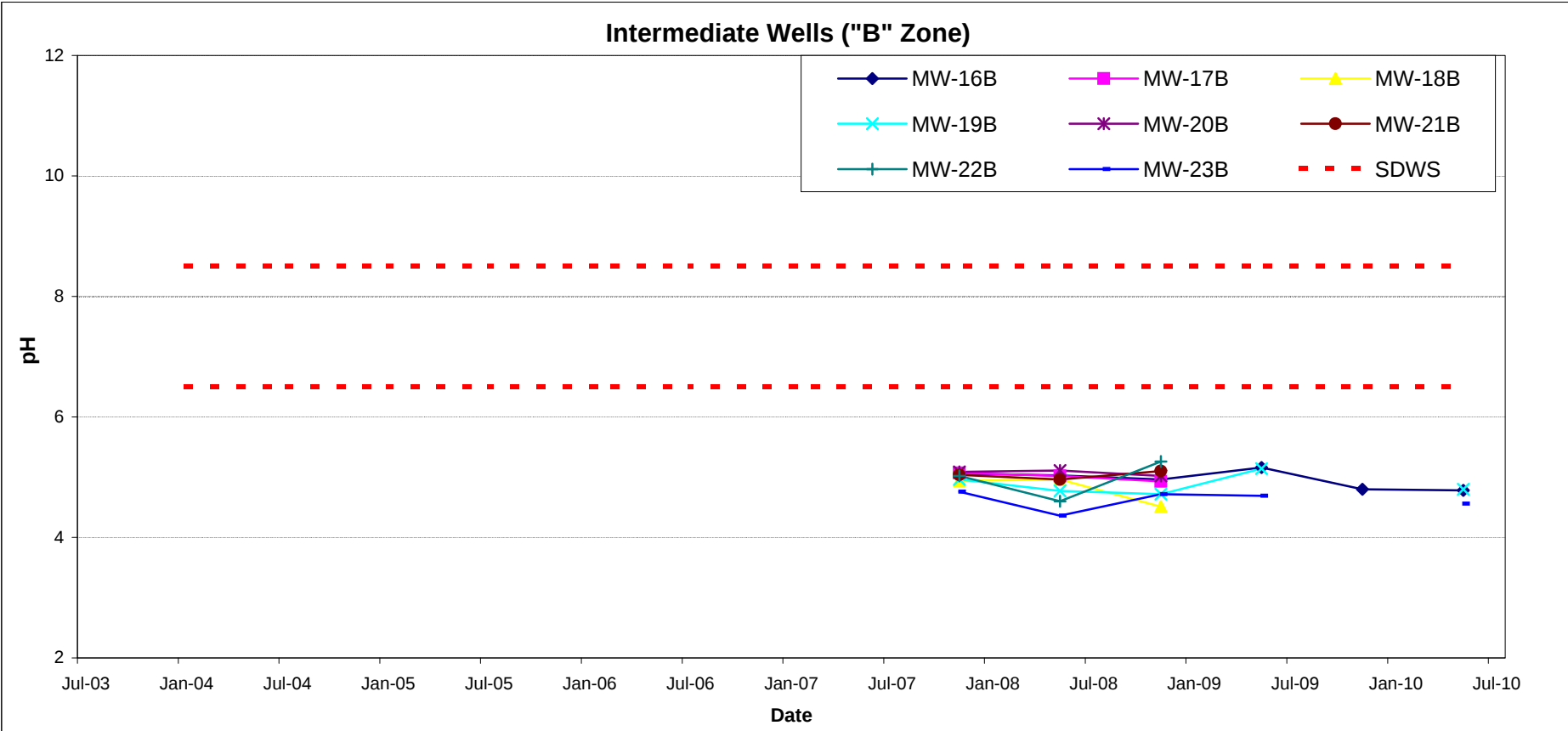
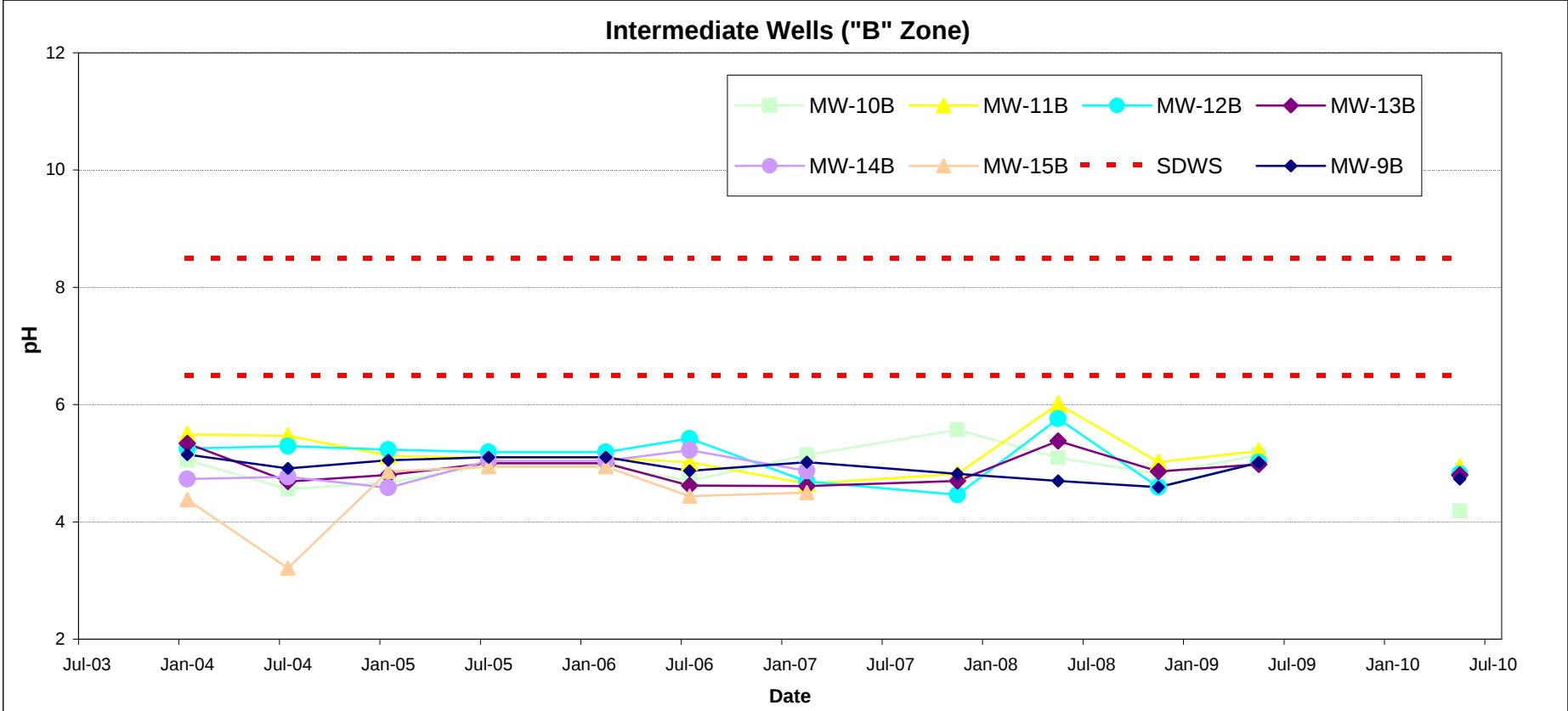
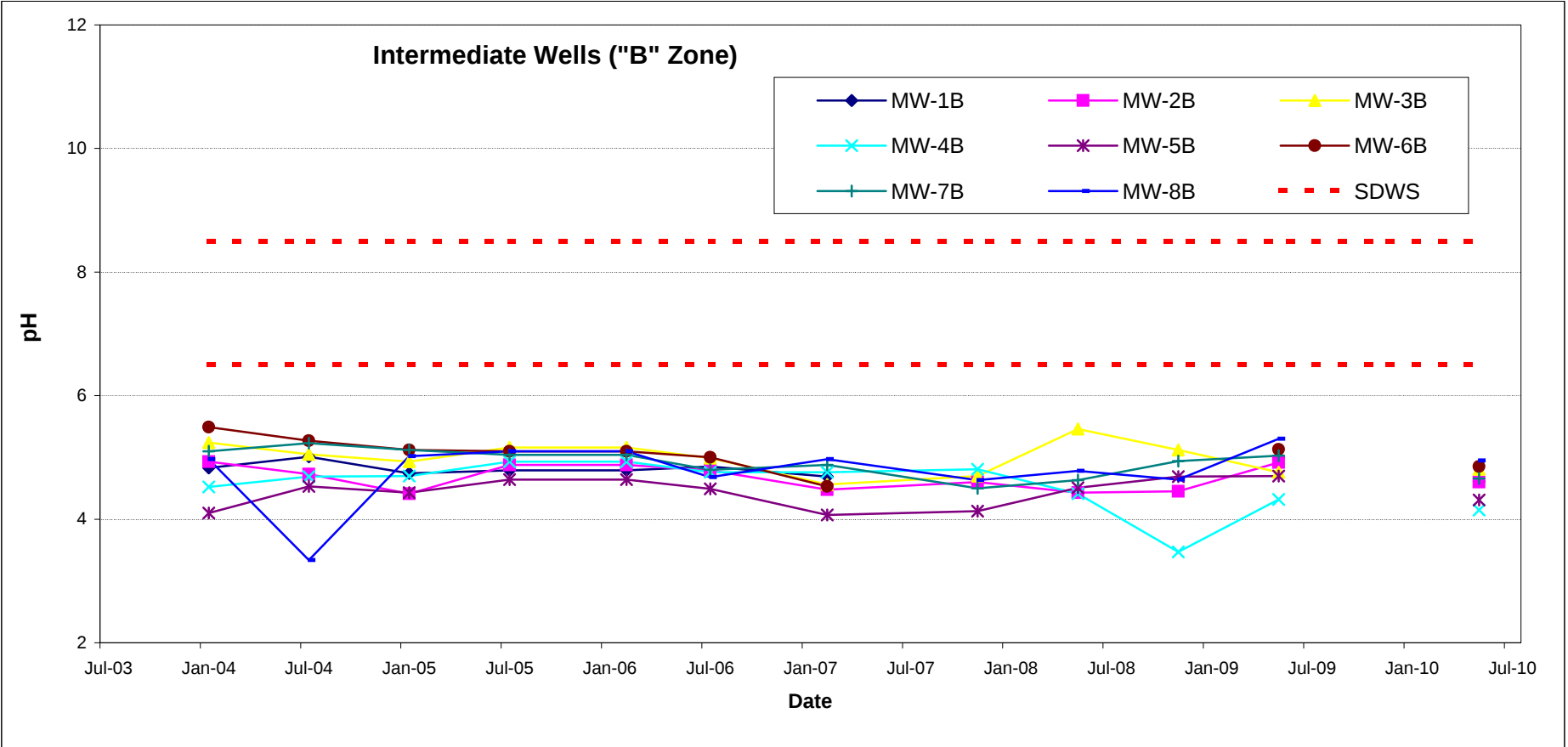


Figure 6-12 (3 of 3)
Groundwater Trends - pH
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J.E.D. Solid Waste Management Facility

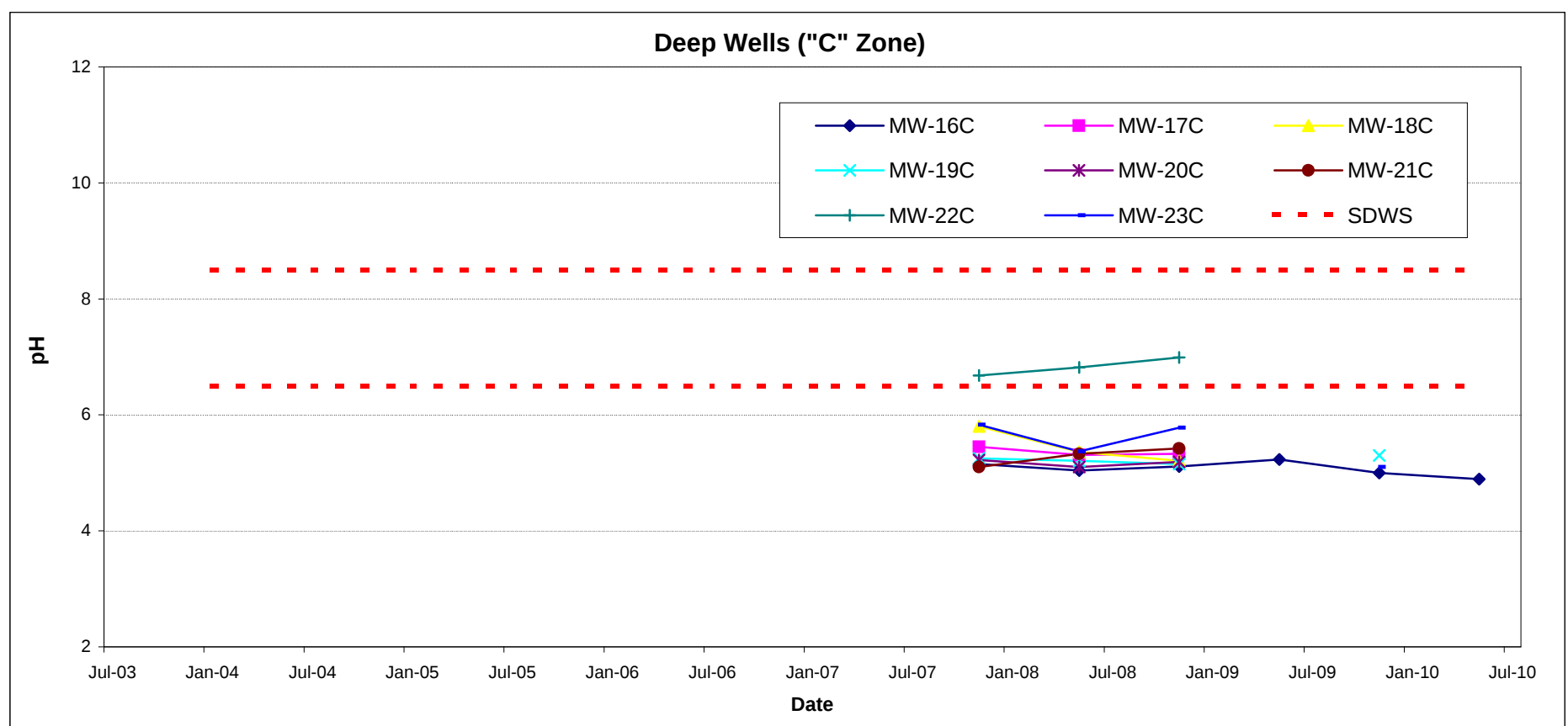
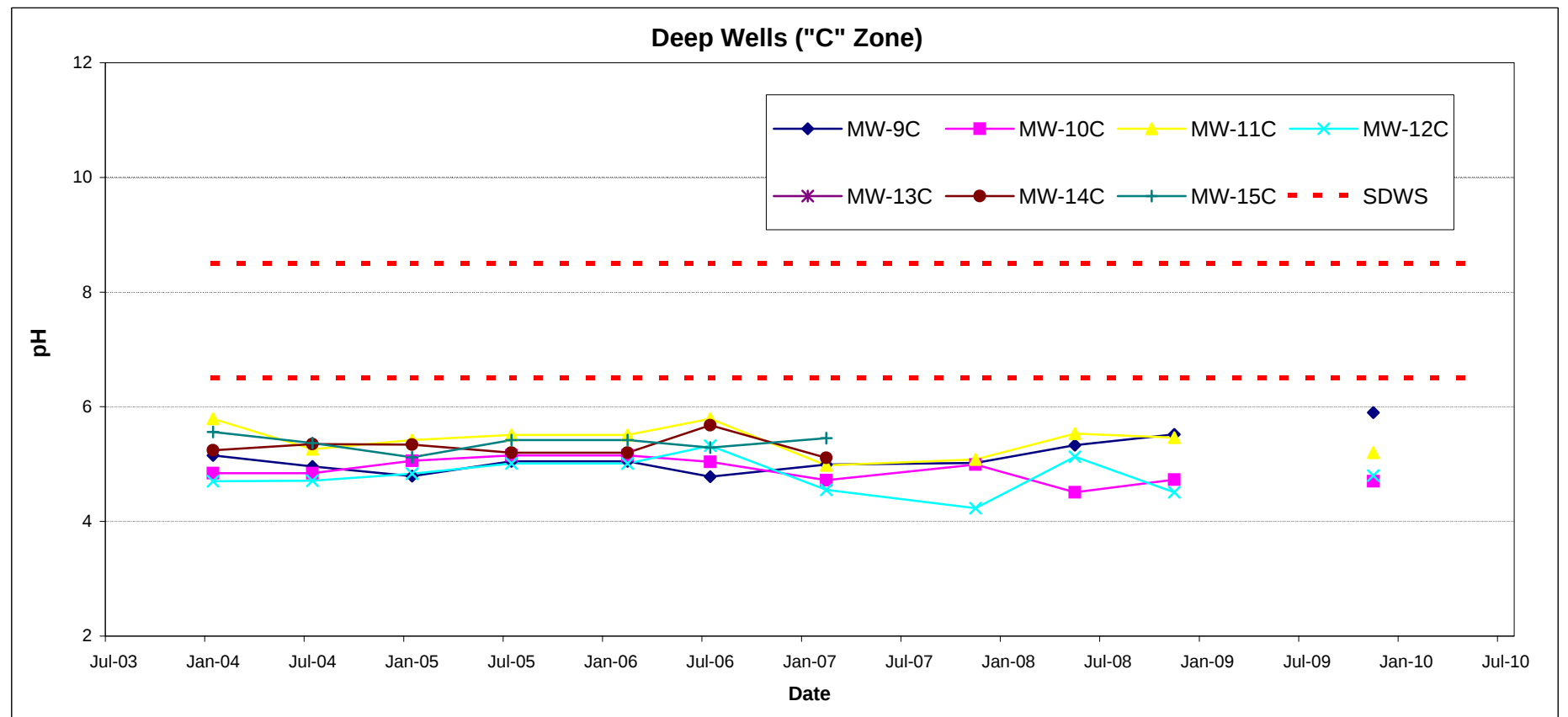
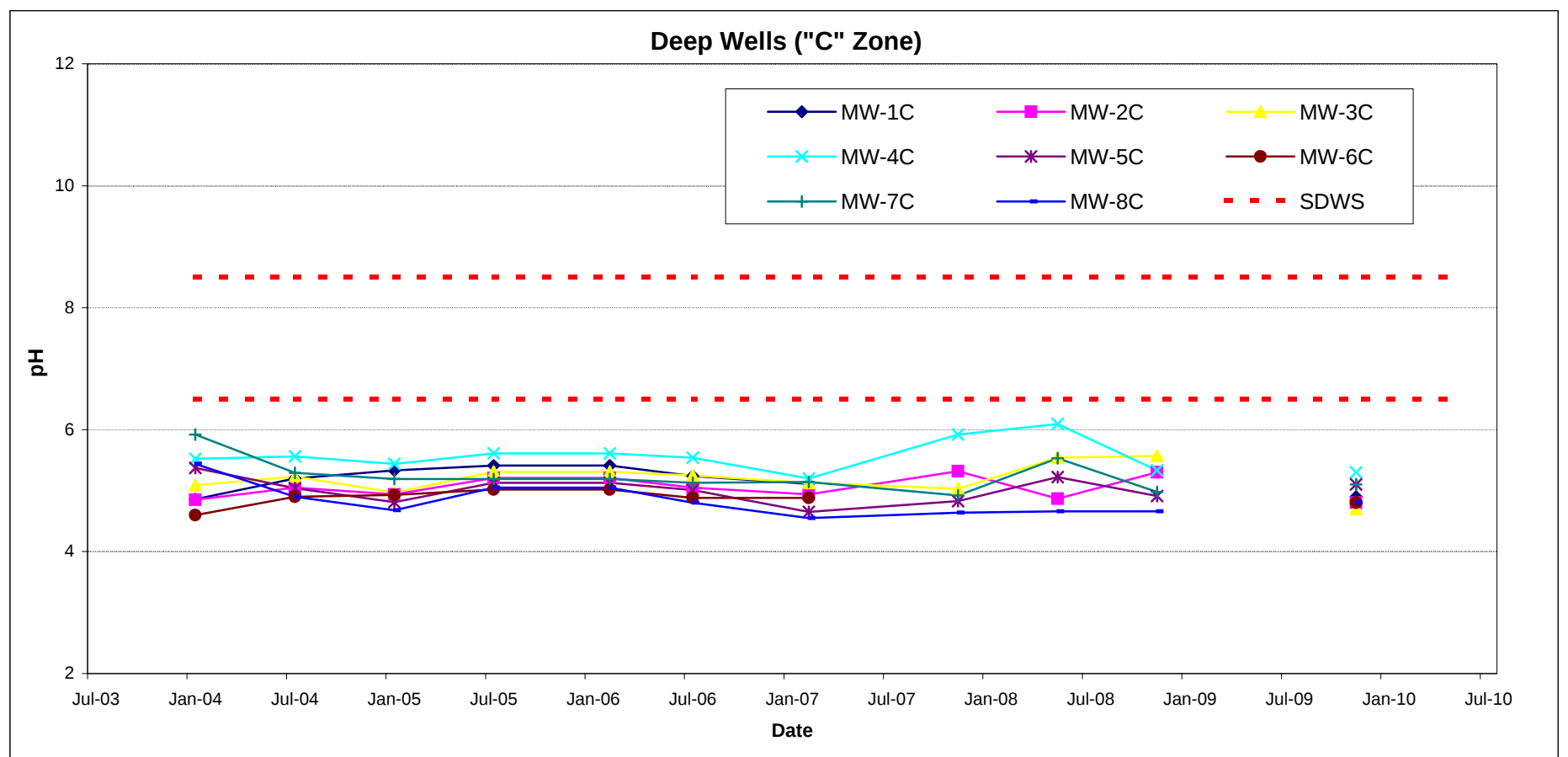


Figure 6-13 (2 of 2)
Groundwater Trends - Turbidity
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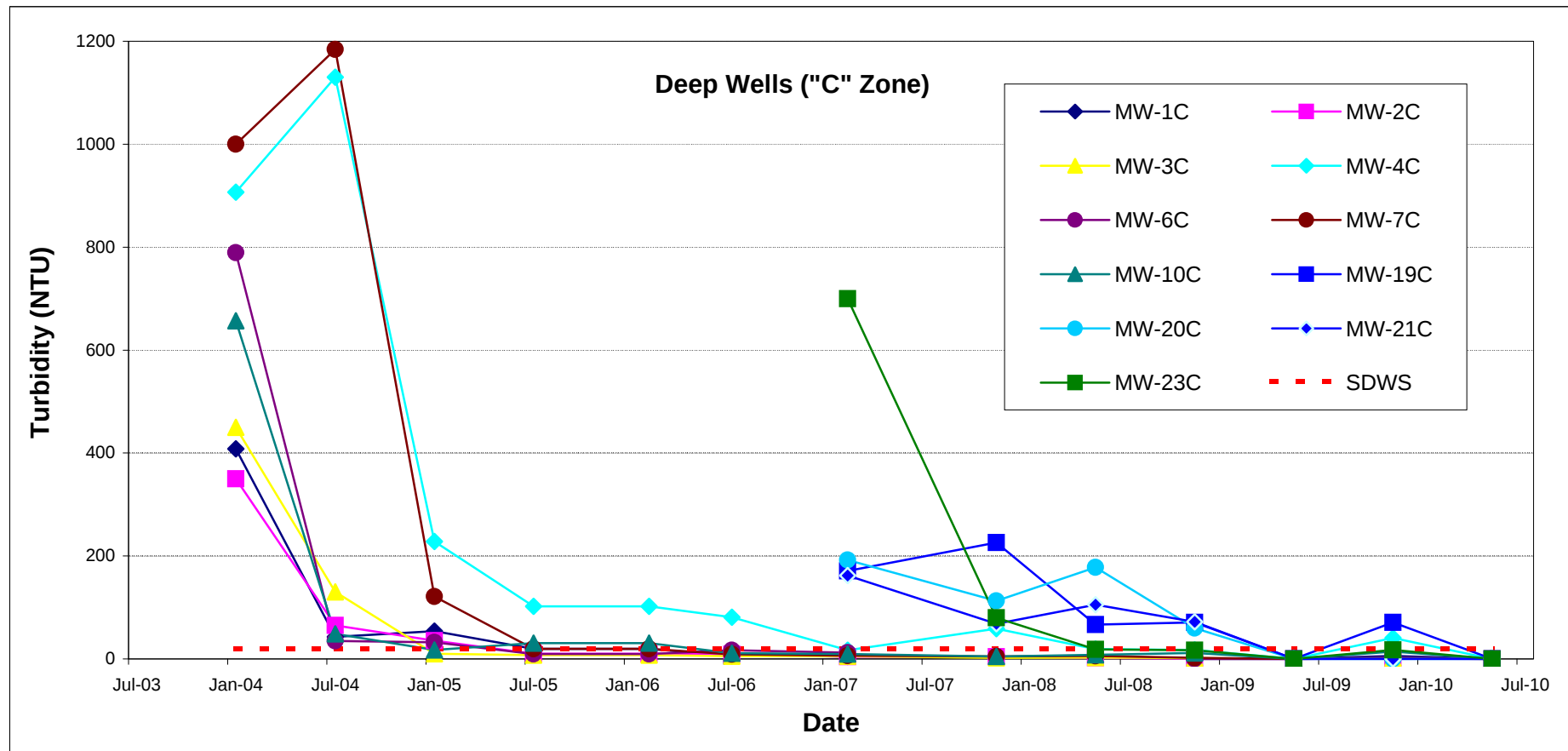
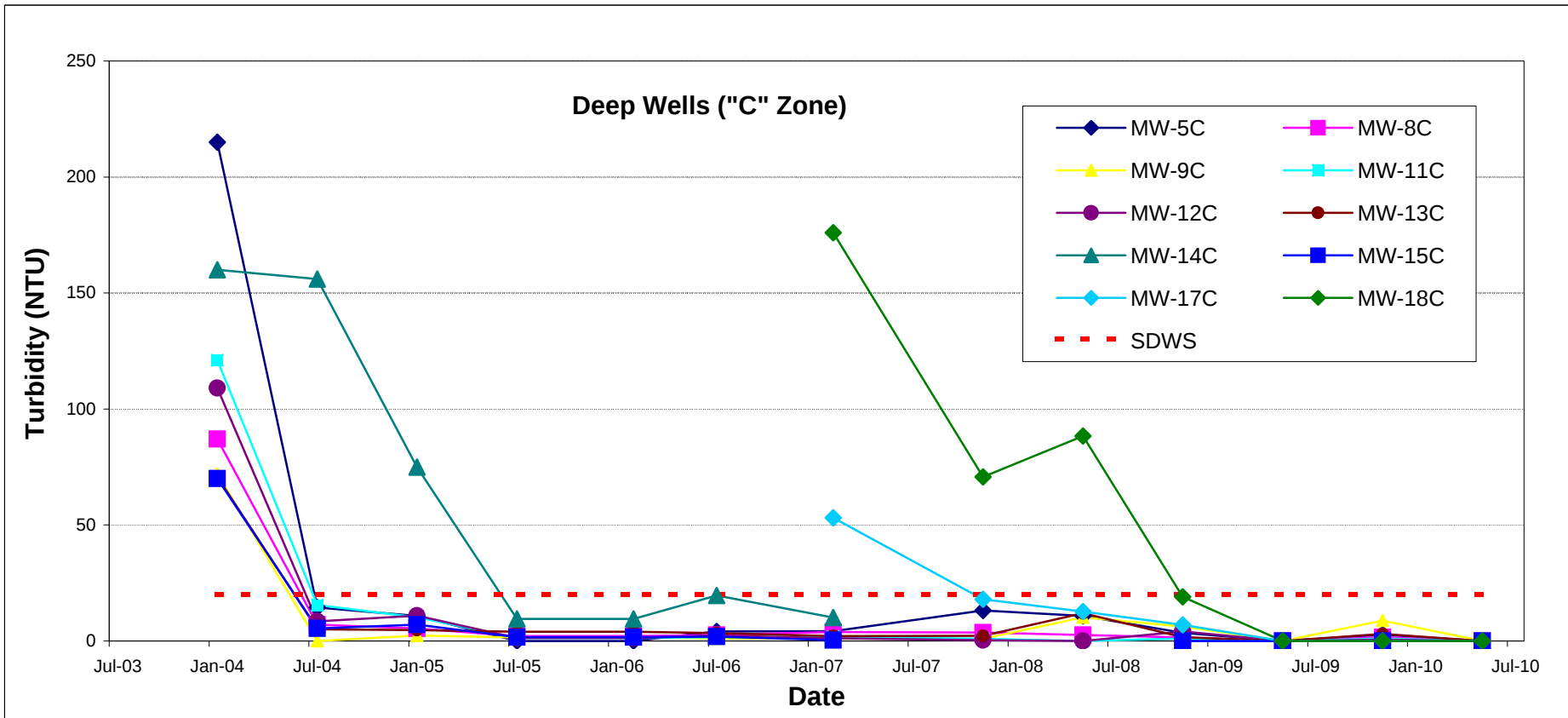
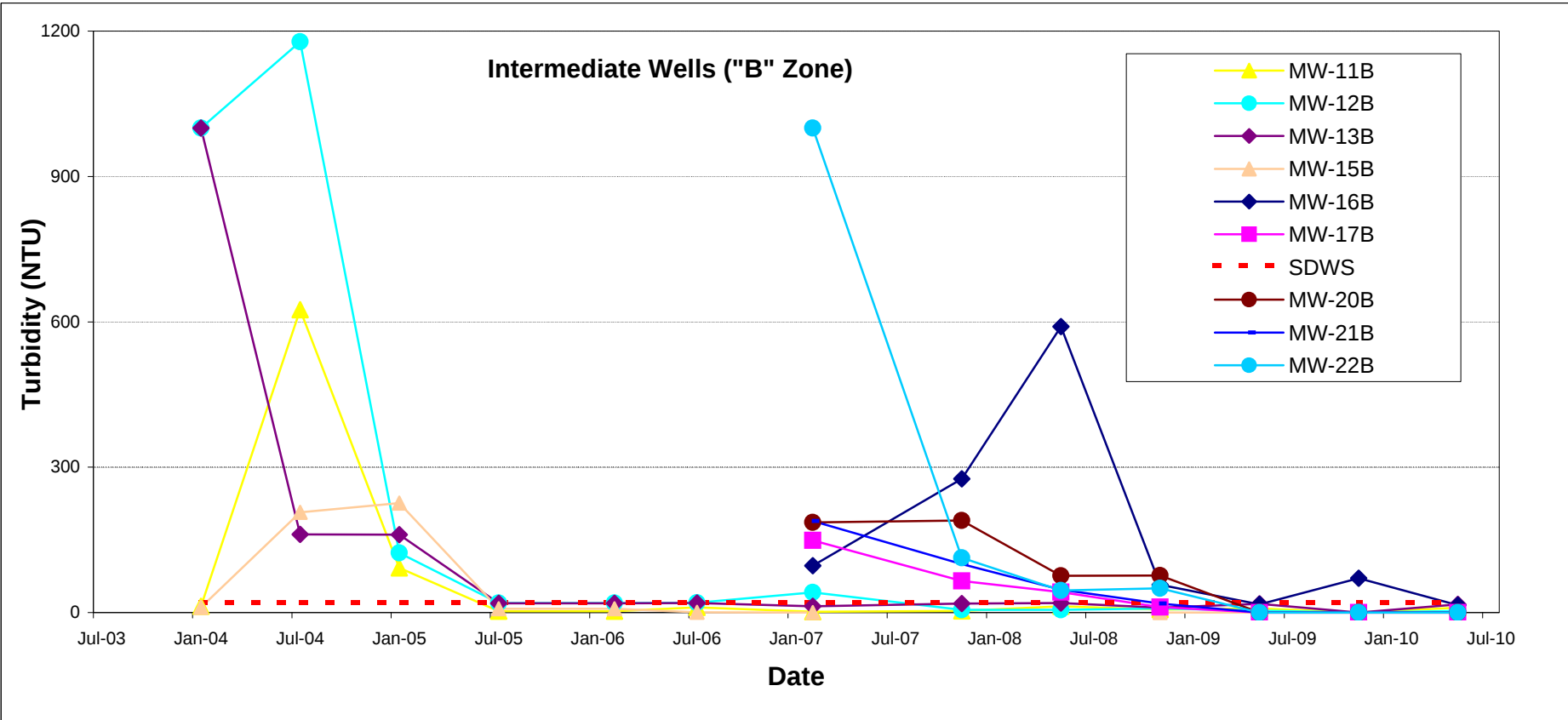
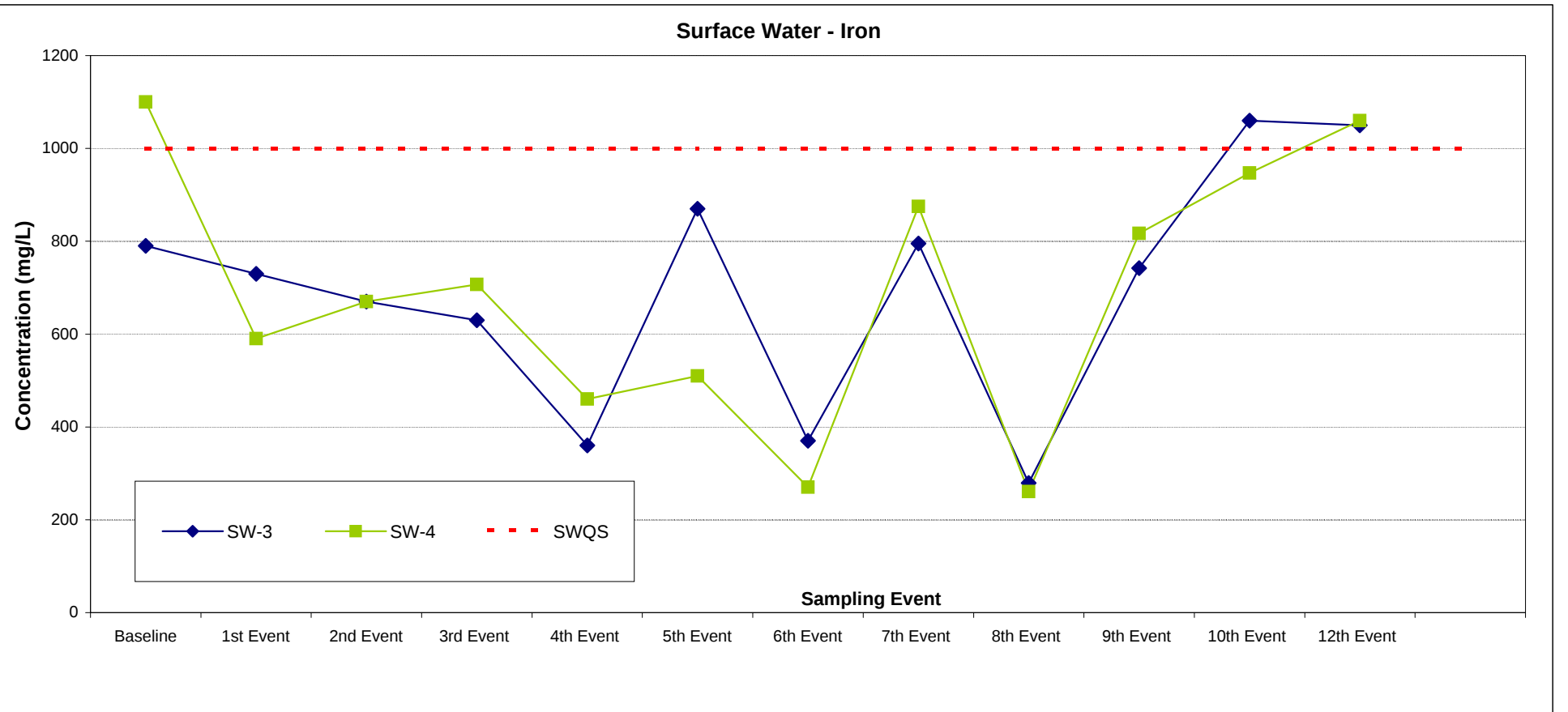
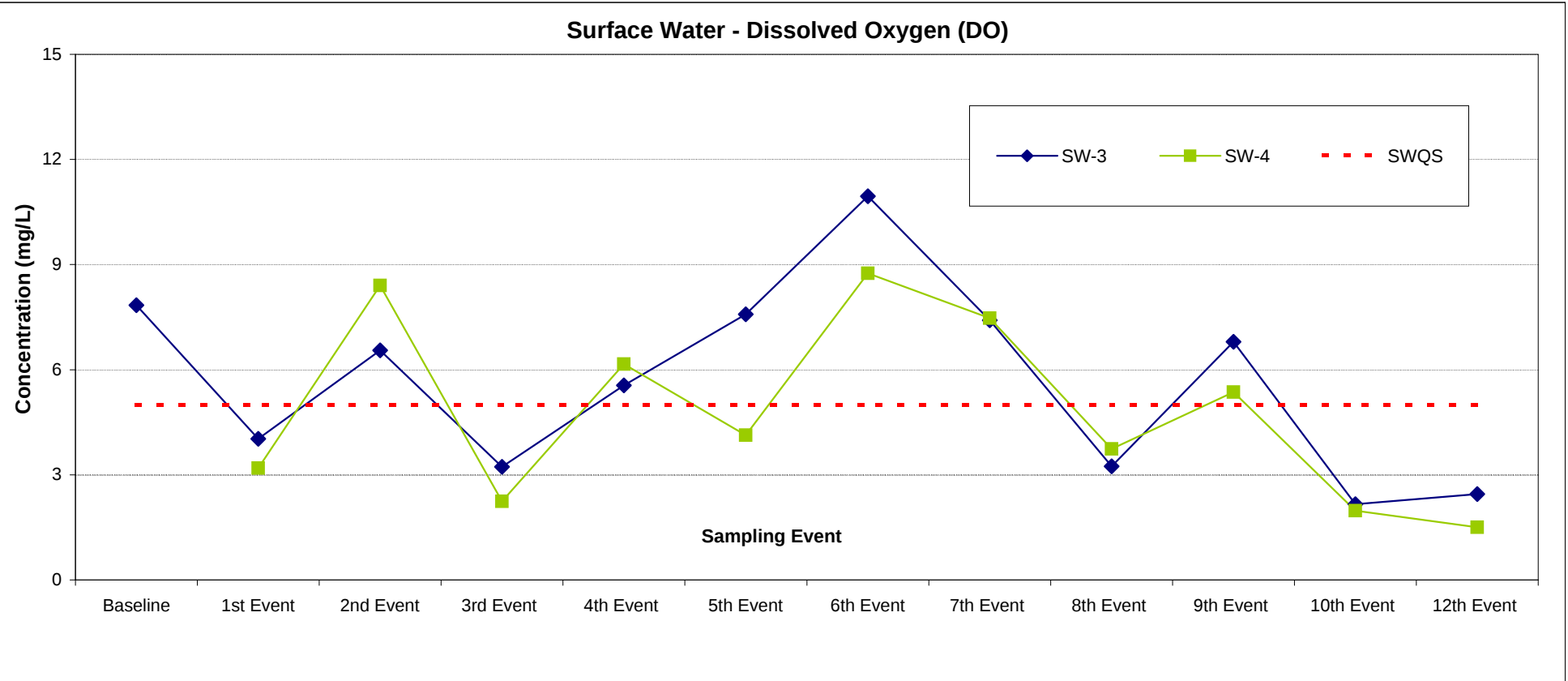
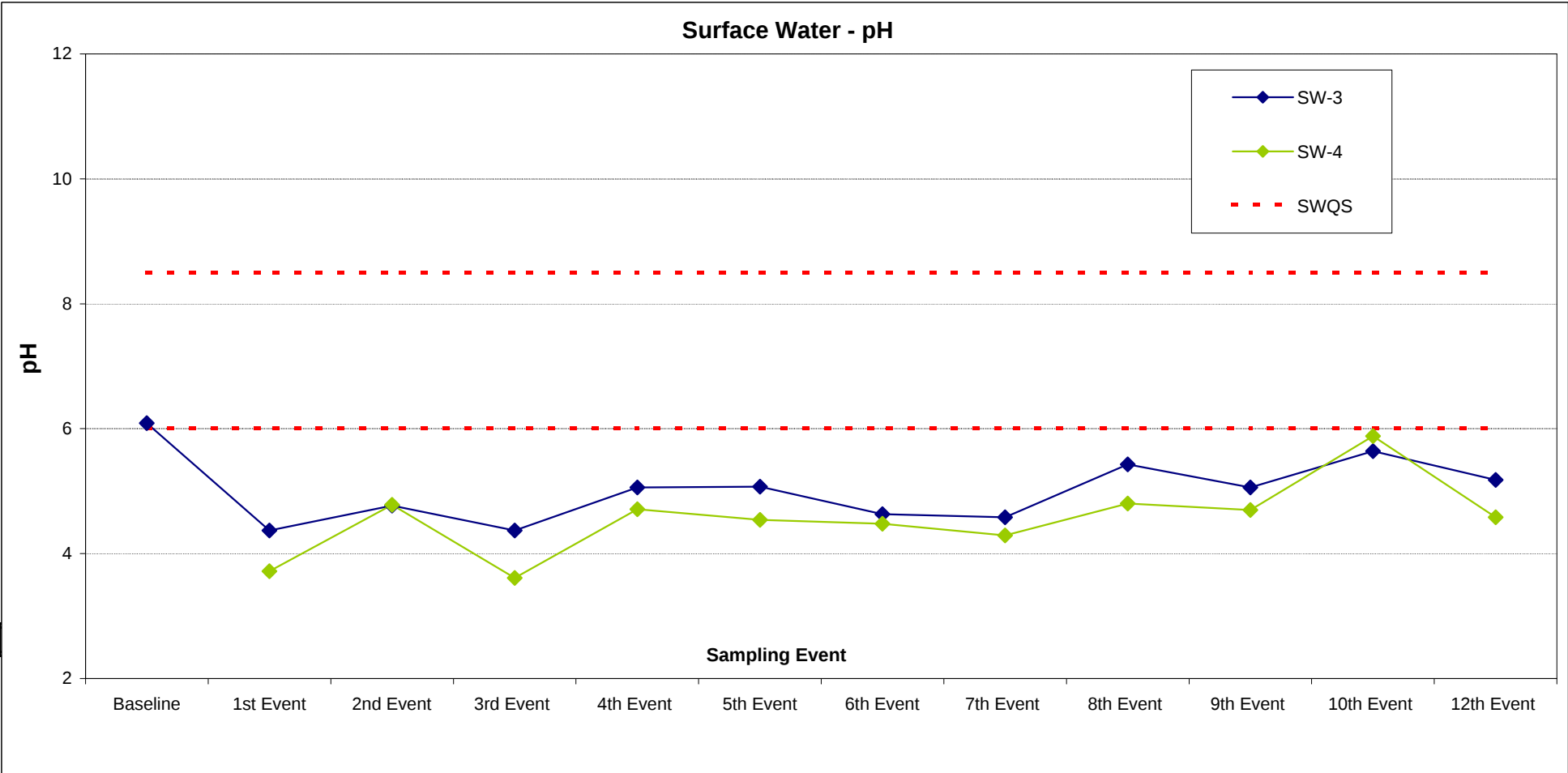


Figure 6-14
Surface Water Summary Data - pH, DO, and Iron
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Note:
SWQS = Class III Water Quality Standard

7. COMPARISON AMONG WELLS IN DIFFERENT HYDROLOGIC ZONES

7.1 Overview

Rule 62-701.510(9)(b)3, F.A.C. requires comparisons among shallow, intermediate, and deep zone wells. The well construction and layout details were described previously in Section 2 of this report. As discussed in Section 5, analytical laboratory results have been summarized to show all parameters reported above the practical quantitative limit (PQL). The tables generated which show all parameters detected above the PQL's have been included in Appendix B. These detection summary tables and the groundwater field measured parameters tables (Tables 4-1 through 4-5) were used to compare water quality among the wells in the different zones at the JED facility.

7.2 Field-Measured Parameters

Based on a review of the field measured parameters recorded during each monitoring event (Tables 4-1 through 4-5) there appears to be no major discernable differences between the shallow ("A"), intermediate ("B"), and deep ("C") zones. For the three zones, the pH is relatively consistent between 4 and 6 standard units. Dissolved oxygen levels are slightly higher in the "A" zone wells, but this is expected due to the shallow nature of these wells. For each well cluster, the conductivity levels are slightly higher in the "A" zones wells as compared to the deeper zones and are fairly consistent between the "B" and "C" zone wells. Turbidity levels have been historically higher in the intermediate and deep zones than the shallow zone. These higher turbidities can be attributed to the subsurface formation properties.

7.3 Detected Parameters

Overall, based on a review of the tables' generated showing all parameters detected above the PQL, there is no significant differences between the three zones ("A", "B", and "C"). A few parameters, such as arsenic, benzene, vinyl chloride, toluene, and ammonia-N had more detections or detections above the GCTL in the shallow ("A" zone) than the deeper zones.

8. COMPARISON BETWEEN BACKGROUND AND DETECTION WELLS

8.1 Overview

Rule 62-701.510(9)(b)4, F.A.C. requires comparisons between background water quality and the water quality in detection wells. For the Phases 1 through 3 monitoring network at the JED facility, monitoring well clusters MW-1 through MW-6, and MW-22 and MW-23 have been designated as the background wells and monitoring well clusters MW-7 through MW-21 have been designated as detection wells. The configuration of the monitoring well clusters was discussed in Section 2.

8.2 Statistical Analysis

Four parameters were selected to compare water quality between background wells and detection monitoring wells:

- Chloride
- Iron
- Total Dissolved Solids (TDS)
- pH

These parameters have all been used to document water quality impacts at landfill sites and have the added advantage (from a statistical analysis standpoint) of being “detectable” – that is, each analysis is a quantifiable detection.

The data were tested using the Mann-Whitney test. The Mann-Whitney is a non-parametrical statistical procedure that evaluates whether two populations of data are similar or not. It is the non-parametric “equivalent” of the t-test; a very common statistical procedure. Mann-Whitney is frequently used in water quality applications due to its ability to handle non-normally distributed data (such as most water quality data). In this case, the two populations are the background monitoring wells and the detection monitoring wells.

The analysis involves ranking all of the data from both populations and then summing up the ranks of each. If the populations are similar, the ranks should be very close. A statistic known as the “U” statistic is calculated for each population. If this statistic is greater than 0.05, then there is it can be stated that the water quality parameter is from the same population in both the background and detection monitoring wells. In other words, there is no statistically significant difference between the background wells and the

detection monitoring wells. The calculated “U” statistic for the current data set for each of the parameters tested is:

- Chloride – 0.5
- Iron – 0.95
- Total Dissolved Solids – 0.66
- pH – 0.07

None of these parameters indicate a statistically significant difference between the background monitoring wells and the detection monitoring wells. Note that this analysis has a very high “power” due to the large sample size in both populations. This means that the probability of a significant finding that the test may have missed is very low.

9. CORRELATIONS BETWEEN RELATED PARAMETERS

9.1 Overview

Rule 62-701.510(9)(b)5, F.A.C. requires correlations between related parameters such as total dissolved solids and specific conductance. Based upon a technical review of the data and previous biennial technical reports, two sets of parameters were identified that might provide meaningful data when correlated responses are evaluated. These are discussed below.

Figure 9-1 contains a correlation plot for TDS versus specific conductance (SC). This is provided because it is recommended in the rule cited above. The correlation coefficient of 0.83 indicates a positive correlation between these two analytes. This correlation has been well-documented for many years.

Figure 9-2 is a correlation plot between iron and arsenic. The correlation coefficient of 0.77 indicates a positive correlation between these two analytes. Based on experiences at other landfill sites in Florida, in virtually every case, the presence of soluble (ferrous) iron is an excellent predictor of arsenic concentrations. This relationship is based on extensive studies in Florida which show, under natural conditions that arsenic is bound by ferric hydroxides. If the ferric hydroxides are exposed to anaerobic conditions, the iron is reduced to its ferrous form and arsenic is released. This appears to be the case at the JED facility. This may become significant if arsenic concentrations are routinely detected about GCTLs.

Figure 9-1
Correlation Between TDS and Specific Conductance
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J.E.D. Solid Waste Management Facility

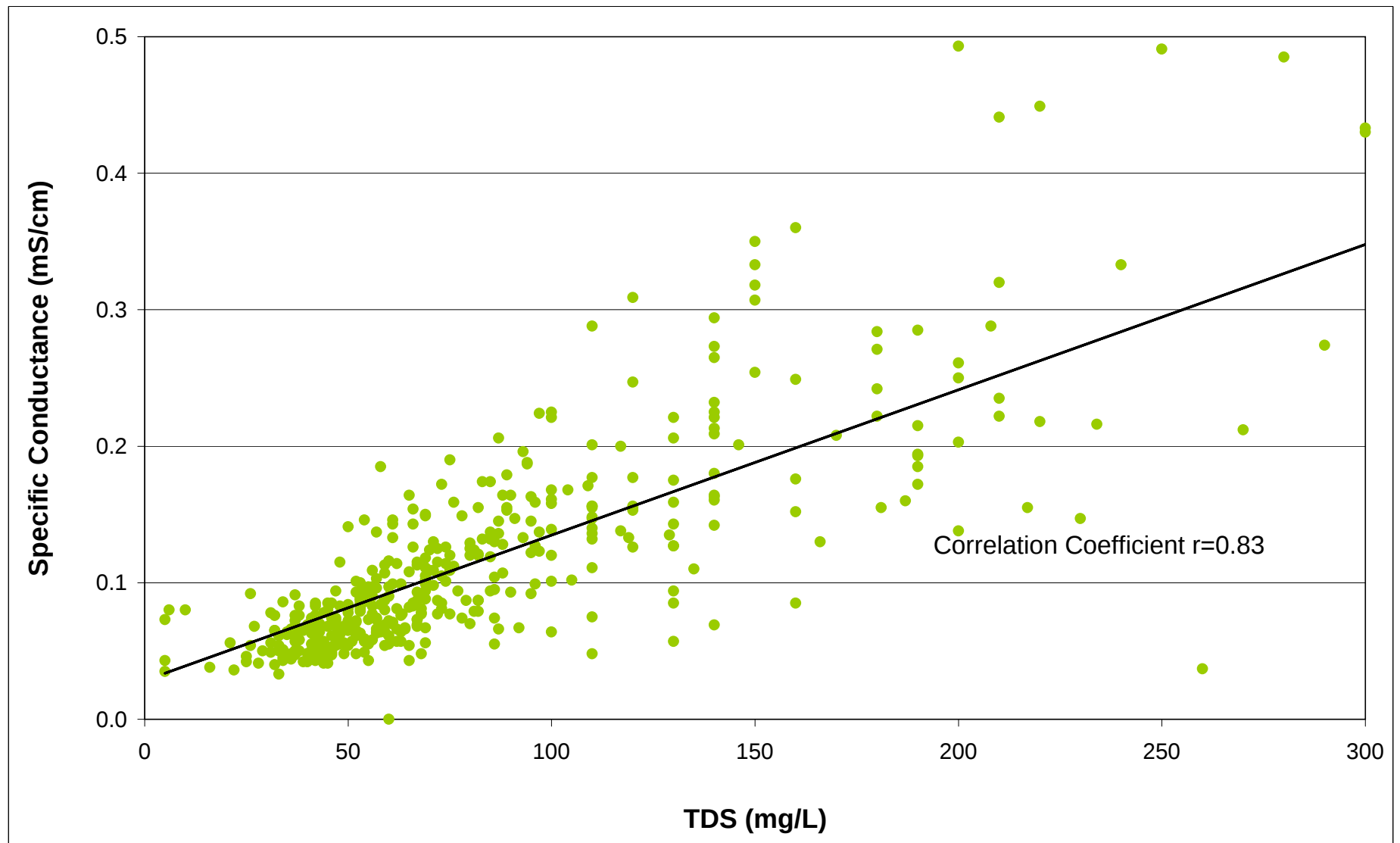
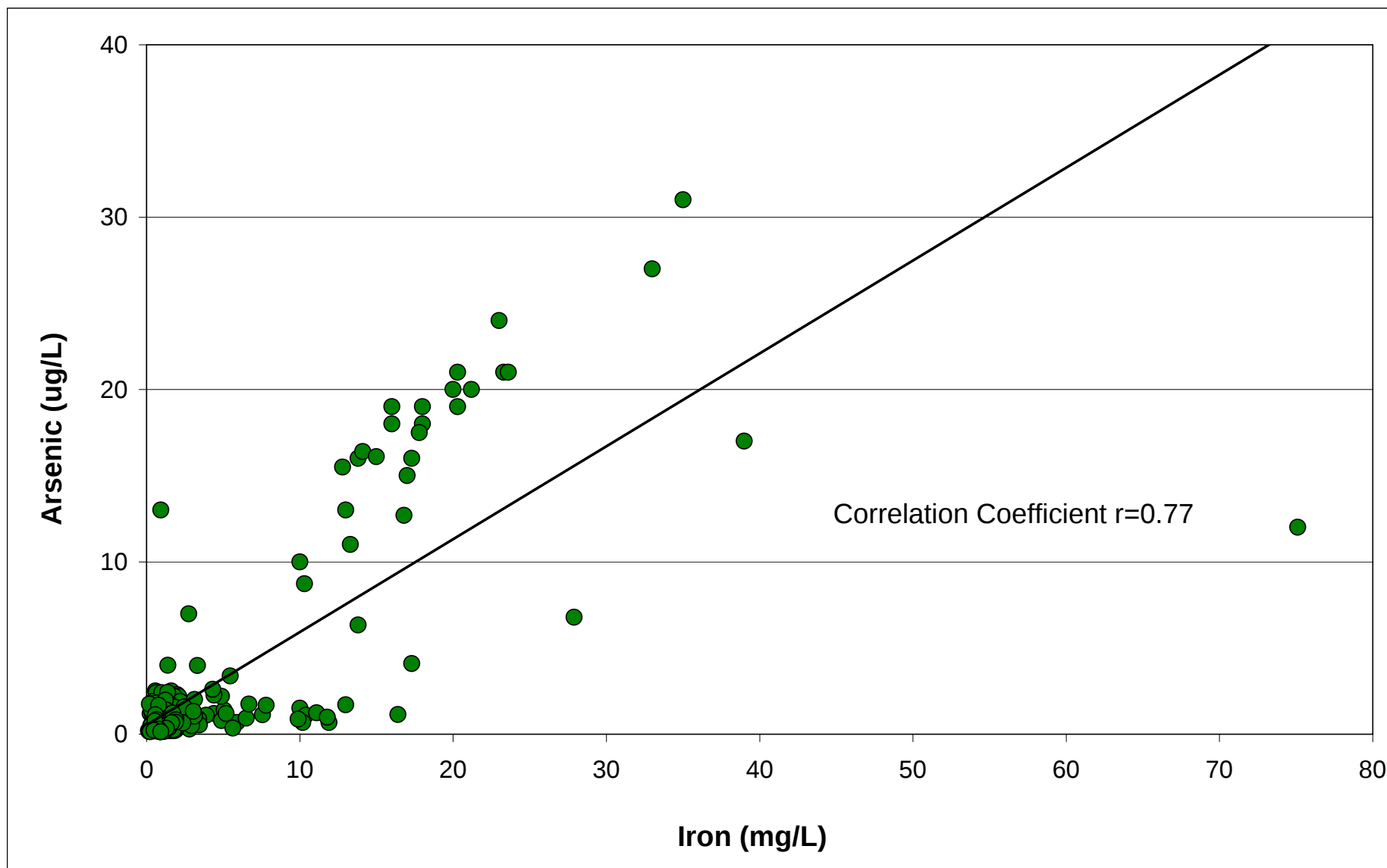


Figure 9-2
Correlation Between Iron and Arsenic
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10. DISCUSSION OF ERRATIC OR POORLY CORRELATED DATA

10.1 Overview

Rule 62-701.510(9)(b)5, F.A.C. requires a discussion of erratic and/or poorly correlated data. In an effort to understand the sources of variability in sample data, a limited analysis was conducted to investigate the relationship between contaminant concentrations and sample event parameters, such as seasonal influences or turbidity. While there was some correlation of results within individual sampling events no seasonal influence was noted (i.e. samples collected in the summer were not systematically higher or lower than other seasons). A significant relationship was noted between turbidity and contaminant concentrations, where the turbidity levels exceeded the SDWS of 20 NTU.

As discussed in Section 3, several analytical laboratories were utilized for the first four monitoring events included in this report. As such, each laboratory was capable of achieving different reporting limits for the various parameters. Generally, the laboratory reporting limits decreased over the twelve monitoring events. The detection of a parameter above the laboratory reporting limit does not mean that the parameter was not present in the samples prior, but that the actual sample concentration was less than that laboratory's reporting limit for that parameter. However, Columbia Analytical Services, Inc. (CAS) Jacksonville, Florida has consistently performed the laboratory analyses for the fourth through twelfth monitoring events.

Several parameters have been reported sporadically or in an erratic manner. Erratic data associated with parameters that exceeded the GCTL during any one monitoring event where reviewed in Section 6. Parameters detected above the PQL but below the GCTL are discussed below.

10.2 Detected Analytes

10.2.1 Acetone

Acetone was detected in a few wells during the various semi-annual monitoring events at concentrations ranging between 13 and 270 µg/L. These detections are considered anomalous. The detected concentrations were well below the GCTL of 700 µg/L.

10.2.2 Antimony

Antimony was detected in five wells during the fifth semi-annual monitoring event at concentrations ranging from 0.095 to 0.26 µg/L. These detections are considered anomalous. The detected concentrations were all well below the GCTL of 6 µg/L.

10.2.3 Cadmium

Cadmium was detected in several wells during various semi-annual monitoring events at concentrations ranging from 0.08 to 2.5 µg/L. These detections are considered anomalous and are likely attributable to elevated turbidity levels. The detected concentrations were all below the GCTL of 5 µg/L.

10.2.4 Chloroform

Chloroform was detected only once at MW-8A during the twelve semi-annual monitoring events performed at a concentration of 3 µg/L. This detection is considered anomalous. The detected concentration was below the GCTL of 5.7 µg/L.

10.2.5 Cobalt

Cobalt has been detected in a several wells during various semi-annual monitoring events at concentrations ranging from 0.096 to 5.5 µg/L. These detections can be attributed to the lower laboratory reporting limit for cobalt achieved during these events compared with the reporting limits for the previous events. The detected concentrations were all well below the GCTL of 420 µg/L.

10.2.6 Copper

Copper was detected in several wells during various semi-annual monitoring events at concentrations ranging from 0.37 to 55 µg/L. These detections are considered anomalous. The detected concentrations were all below the GCTL of 1,000 µg/L.

10.2.7 Cis-1,2-Dichloroethene

Cis1,2-dichloroethene was detected in MW-9A during various semi-annual monitoring events, and MW-10A and MW-11A during the twelfth semi-annual event at concentrations ranging between of 1.1 and 2.3 µg/L. These detections may be attributable to the potential migration of landfill gas as mentioned previously in this

report for benzene and vinyl chloride. The detected concentrations were all well below the GCTL of 70 µg/L.

10.2.8 Ethylbenzene

Ethylbenzene was detected in a few wells during various semi-annual monitoring events at concentrations ranging from 0.53 to 5.1 µg/L. These detections may be attributable to the potential migration of landfill gas as mentioned previously in this report for benzene and vinyl chloride. The detected concentrations were all below the GCTL of 30 µg/L.

10.2.9 Mercury

Mercury has been detected above the laboratory reporting limit for several wells during the baseline and first semi-annual monitoring events, but has not been detected in any subsequent monitoring events. The field measured turbidity concentrations for all these samples significantly exceeded the SDWS of 20 NTU. The mercury concentrations can be attributed to these high sample turbidity levels. The detected concentrations were well below the GCTL of 0.002 mg/L.

10.2.10 Nickel

Nickel has been detected in a several wells during various semi-annual monitoring events at concentrations ranging from 0.4 to 14 µg/L. These detections can be attributed to the lower laboratory reporting limit for nickel achieved during these events compared with the reporting limits for the previous events. The detected concentrations were all below the GCTL of 100 µg/L.

10.2.11 Nitrate-N

Nitrate was detected sporadically for a few wells during the twelve monitoring events at concentrations of ranging between 0.051 and 5.6 mg/L and below. These detections are considered anomalous. The detected concentrations were all below the GCTL of 10 mg/L.

10.2.12 Selenium

Selenium was reported above the laboratory reporting limit for several wells during the twelve semi-annual monitoring events at concentrations of ranging between 0.91 and 25 µg/L. The field measured turbidity concentrations for several of these samples was significantly higher than the SDWS of 20 NTU (625-1,321 NTU). The selenium

concentrations can be attributed to these high sample turbidity levels and to the lower laboratory reporting limit for selenium as compared with the previous events. The detected concentrations were well below the GCTL of 50 µg/L.

10.2.13 Silver

Silver was detected in a few wells during the fifth semi-annual monitoring event at concentrations of ranging from 1.3 to 48 µg/L. These detections are considered anomalous. The detected concentrations were all well below the GCTL of 100 µg/L.

10.2.14 Thallium

Thallium was detected in MW-13A and MW-13C during the fifth semi-annual monitoring event at concentrations of 0.13 and 0.15 µg/L, respectively. These detections are considered anomalous. The detected concentrations were all well below the GCTL of 2 µg/L.

10.2.15 Xylene

Xylene was detected in a few wells during various semi-annual monitoring events at concentrations of ranging between 0.95 and 14.1 µg/L. These detections may be attributable to the potential migration of landfill gas as mentioned previously in this report for benzene and vinyl chloride. The detected concentrations were below the GCTL of 20 µg/L.

10.2.16 Zinc

Zinc has been reported for several wells during various monitoring events at concentrations of ranging between 2 and 3,910 µg/L. The field measured turbidity concentrations for the majority of these samples exceeded the SDWS of 20 NTU. The detection of zinc in these samples can be attributed to the elevated turbidity levels. The detected concentrations were well below the GCTL of 5,000 µg/L.

10.2.17 Other Volatile Organic Compounds

In addition to the other Volatile Organic Compounds (VOCs) listed previously, several additional VOCs have been detected in several wells during the more recent monitoring events. Parameters such as: 1,1-dichloroethene; 1,4-dichlorobenzene; 1,2-dichloropropane; EDC; and MEK have been detected in several of the A-zone (shallow)

monitoring wells where benzene has been detected. It is likely that the detections of these VOCs are potentially related to the migration of gas from the landfill.

11. GROUNDWATER CONTOUR MAP EVALUATION

11.1 Groundwater Level Contour Map

The depth to water in each monitoring well was measured using a water level meter. Additionally, water level measurements were completed on other site piezometers (installed during the hydro-geological investigation, but not part of the water quality monitoring network), and staff gauges located at surface water monitoring locations SW-3 and SW-4 during each monitoring event. The water level measurements were used to calculate the groundwater level elevations for each monitoring well or piezometer. The groundwater and surface water level elevation data from January 2004 through May 2010 are summarized in Table 11-1.

The groundwater level elevations from the two baseline and subsequent twelve semi-annual monitoring events for all monitoring wells and piezometers were plotted over the monitoring period (January 2004 to May 2010). These hydrographs are shown on Figures 11-1 (“A” zone wells), Figure 11-2 (“B” zone wells), Figure 11-3 (“C” zone wells), and Figure 11-4 (piezometers). The hydrographs indicate that, while the water level elevations fluctuate, the relationship between water levels in the monitoring wells is generally consistent throughout the period of record. These hydrographs indicate that the potentiometric surface has remained relatively constant throughout the monitoring period. The exception would be for monitoring well clusters MW-1, 2, 3, 4, 22, and 23. A borrow area was permitted on the property adjacent to the western limit of development of Phases 1 through 3 at the JED facility. Dewatering of the borrow area has created a temporary change in the ground water flow direction as shown on the recent (May 2010) ground water contour maps provided in Appendix C. The reduction in the water-table is noted throughout the entire reporting period (i.e., biennial period from November 2008 May 2010).

To further assess groundwater flow dynamics at the JED facility, water level elevations from the different zones (“A”, “B”, and “C”) for selected monitoring well clusters (i.e., MW-1, MW-5, MW-9, and MW-13) installed around the perimeter of the Phases 1 through 3 development at the site, were plotted over the period from January 2004 to May 2010. These plots are presented in Figures 11-5 and 11-6. The data follows trends observed in the hydrographs presented in Figures 11-1 through 11-4. These plots provide further indication of a consistent flow system with very little change in flow direction (under normal conditions), except for the MW-23 cluster, which is influenced by the adjacent borrow area dewatering operations.

Groundwater surface maps for the two baseline and each of the semi-annual monitoring events (January 2004 through May 2008) were previously provided in the respective monitoring event reports. Copies of groundwater surface maps for the ninth through twelfth monitoring events have been included in Appendix C. The groundwater contours indicate that a groundwater flow divide is located through the approximate center of the landfill. The horizontal component of groundwater flow on the east side of this divide is predominately east-northeast towards Bull Creek for all three zones, and the horizontal component on the west side of the divide is towards the west. As with the eastern wells, the deeper zones (western wells) clearly show a westward flow direction. The average horizontal hydraulic gradient in all three zones is approximately 1E^{-3} ft/ft. A comparison of water levels between the A, B, and C wells shows a similar vertical gradient (1E^{-3} ft/ft). These gradients are consistent with the regional gradient in the upper surficial aquifer which indicates an interconnected, sluggish flow regime in the saturated zone above the intermediate confining unit.

11.2 Groundwater Flow Rate Calculations

Groundwater flow rates were estimated using site-specific data. To estimate the groundwater flow rate, the average linear velocity of the groundwater unit was calculated using the following equation:

$$\bar{v} = \frac{Ki}{n}$$

where:

$\bar{v}$ = average linear groundwater velocity

K = hydraulic conductivity

i = hydraulic gradient

n = effective porosity (assumed)

The average hydraulic gradient was obtained from the water level maps measured for the twelve semi-annual monitoring events, and an effective porosity of 0.30 was estimated for the soil types found in the shallow aquifer (Freeze and Cherry, 1979). The hydraulic conductivity value was obtained from the slug tests that were reported in “Hydrogeologic Investigation Report and Water Quality Monitoring Plan” submitted to FDEP in April 2002. The average hydraulic conductivity for the upper surficial aquifer “A” and “C” zones was calculated to be approximately 5.83 feet per day. The resultant estimated average annual flow velocity for groundwater flowing north and northeast from the landfill was 7.088 ft/yr.

Table 11-1 (1 of 2)
Groundwater Elevation Measurements
Third Biennial Technical Report on Water Quality
J.E.D. Solid Waste Management Facility

Well ID	PH 1 Baseline Jan-04 (ft, NGVD)	1st Event Jan-04 (ft, NGVD)	2nd Event Jan-05 (ft, NGVD)	3rd Event Jul-05 (ft, NGVD)	4th Event Feb-06 (ft, NGVD)	5th Event Jul-06 (ft, NGVD)	6th Event Feb-07 (ft, NGVD)	PH 2&3 Baseline Sep-07 (ft, NGVD)	7th Event Nov-07 (ft, NGVD)	8th Event May-08 (ft, NGVD)	9th Event Nov-08 (ft, NGVD)	10th Event May-09 (ft, NGVD)	11th Event Nov-09 (ft, NGVD)	12th Event May-10 (ft, NGVD)
MW-1A	80.61	81.15	81.00	81.03	78.29	78.25	77.30	75.26	74.76	75.57	79.10	75.06	74.85	76.78
MW-2A	80.52	81.41	80.89	81.05	78.40	79.63	77.88	75.88	75.42	77.04	80.33	77.34	76.94	76.93
MW-3A	80.12	81.23	80.71	80.98	78.65	78.90	78.33	76.37	76.16	77.44	80.46	78.61	78.81	77.07
MW-4A	79.66	80.93	80.26	80.83	78.93	78.15	78.68	76.78	76.91	77.38	79.87	79.02	77.41	77.65
MW-5A	79.11	80.47	79.86	80.71	79.47	78.06	78.79	77.43	77.04	77.42	79.42	79.21	78.33	79.14
MW-6A	78.46	79.27	79.03	79.39	78.77	77.79	78.49	76.97	77.23	76.37	78.59	78.57	77.35	77.91
MW-7A	78.44	79.81	79.40	79.45	78.71	77.71	78.70	76.79	77.33	76.26	78.78	79.46	77.90	77.61
MW-8A	78.48	79.83	79.00	79.65	78.91	77.59	78.81	76.61	77.35	76.22	78.84	79.74	78.11	77.72
MW-9A	78.22	79.57	78.90	79.42	78.75	77.28	78.51	76.42	77.16	76.58	78.59	78.62	78.18	77.71
MW-10A	78.37	79.78	79.09	79.69	78.70	77.22	78.41	76.44	77.00	76.05	78.52	78.80	77.61	77.67
MW-11A	78.40	79.61	79.01	79.44	78.56	77.38	78.21	76.36	76.82	76.00	78.22	78.26	77.28	77.46
MW-12A	78.80	80.09	79.36	79.85	78.91	77.76	78.47	76.60	77.09	76.29	78.43	78.15	77.52	77.69
MW-13A	78.85	79.81	79.28	79.60	78.88	77.86	78.47	76.75	77.21	76.17	78.54	77.74	77.80	78.01
MW-14A	79.74	80.74	80.04	80.35	79.24	78.23	79.73	Monitoring Well Abandoned 10 July 2007						
MW-15A	80.37	81.17	80.69	80.98	79.15	78.14	78.36	Monitoring Well Abandoned 10 July 2007						
MW-16A	MW- 16A through MW-23A were constructed as part of the Phases 2 and 3 development in Sep 2007							76.82	77.34	76.19	79.65	78.87	79.58	80.44
MW-17A								76.54	77.09	75.99	79.56	79.61	79.55	79.82
MW-18A								76.98	77.49	76.12	78.83	79.58	79.58	78.09
MW-19A								77.29	77.82	76.28	79.21	79.93	77.79	78.19
MW-20A								77.49	77.99	76.33	79.73	80.22	78.47	78.58
MW-21A								77.37	77.63	75.93	79.13	79.89	77.92	78.13
MW-22A								76.32	76.60	74.42	77.72	76.65	76.79	78.43
MW-23A								74.67	74.65	74.81	72.04	74.67	74.07	76.42
MW-1B	80.60	81.31	81.02	81.03	78.29	78.25	77.28	75.21	74.73	75.51	79.12	75.03	74.83	76.76
MW-2B	80.57	81.40	80.90	81.03	78.38	79.62	77.87	75.82	75.40	77.02	80.32	77.31	76.72	76.92
MW-3B	80.13	81.23	80.71	81.00	78.65	78.92	78.35	76.39	76.19	77.46	80.49	78.60	76.63	77.08
MW-4B	79.61	80.93	80.26	80.78	78.92	78.13	78.65	76.75	76.88	77.34	79.93	79.00	77.37	77.58
MW-5B	79.09	80.27	79.74	80.37	79.04	77.92	78.70	77.35	77.09	76.27	79.49	77.79	78.30	78.79
MW-6B	78.47	79.17	78.91	79.36	78.71	77.78	78.50	76.96	77.24	76.37	78.61	78.57	77.38	77.92
MW-7B	78.44	79.42	78.87	79.39	78.71	77.72	78.69	76.80	77.34	76.26	78.79	79.39	77.89	77.62
MW-8B	78.42	79.81	79.10	79.63	78.89	77.58	78.77	76.64	77.30	76.18	78.79	79.67	78.05	77.67
MW-9B	78.22	79.51	78.97	79.37	78.72	77.27	78.48	76.40	77.13	75.95	78.55	79.51	78.06	77.61
MW-10B	78.34	79.73	79.07	79.65	78.67	77.20	78.38	76.40	76.98	76.02	78.50	78.86	77.57	77.64
MW-11B	78.41	79.54	79.00	79.41	78.55	77.38	78.22	76.38	76.82	76.00	78.21	78.26	77.21	77.36
MW-12B	78.67	79.91	79.24	79.65	78.76	77.67	78.36	76.52	77.02	76.20	78.29	78.07	77.36	77.57
MW-13B	78.84	79.82	79.29	79.60	78.89	77.87	78.46	76.75	77.22	76.18	78.54	77.76	77.78	78.01
MW-14B	79.75	80.81	80.04	80.32	79.24	78.25	79.75	Monitoring Well Abandoned 10 July 2007						
MW-15B	80.33	81.18	80.65	80.97	79.15	78.14	78.35	Monitoring Well Abandoned 10 July 2007						
MW-16B	MW- 16B through MW-23B were constructed as part of the Phases 2 and 3 development in Sep 2007							76.82	77.32	76.16	79.30	78.82	78.74	79.17
MW-17B								76.52	77.07	75.97	79.42	79.38	79.06	79.30
MW-18B								76.96	77.48	76.09	78.83	79.55	77.64	78.00
MW-19B								77.32	77.82	76.29	79.23	79.94	77.81	78.19
MW-20B								77.48	77.98	76.32	79.69	80.14	78.28	78.51
MW-21B								77.36	77.66	75.94	79.12	79.86	77.91	78.40
MW-22B								76.23	76.56	74.48	77.65	76.59	76.74	78.09
MW-23B								74.68	74.67	74.85	72.08	74.68	74.08	76.46
MW-1C	80.54	81.26	80.97	80.95	78.25	78.24	77.28	75.18	74.77	75.44	79.03	75.10	74.85	76.74
MW-2C	80.44	81.35	80.81	80.96	78.39	79.34	77.87	75.81	75.47	76.87	80.11	77.22	75.74	76.88
MW-3C	80.10	81.28	80.64	80.94	78.61	78.87	78.31	76.35	76.17	77.38	80.36	78.41	76.58	76.98
MW-4C	79.55	80.94	80.26	80.69	78.88	78.14	78.62	76.76	76.88	77.26	79.79	78.75	77.30	77.32
MW-5C	78.93	79.85	79.54	80.04	78.84	77.88	78.59	76.86	77.15	76.82	79.05	78.58	77.44	77.66
MW-6C	78.39	79.02	78.75	79.28	78.56	77.75	78.41	76.89	77.13	76.29	78.50	78.54	77.22	77.63
MW-7C	78.30	78.87	78.29	79.29	78.61	77.64	78.48	76.75	77.19	76.19	78.58	78.87	77.55	77.58
MW-8C	78.31	79.43	78.93	79.31	78.67	77.47	78.52	76.53	77.16	76.05	78.56	79.25	77.73	77.48
MW-9C	78.17	79.26	78.80	79.20	78.56	77.22	78.33	76.48	76.99	75.86	78.33	78.96	77.50	77.51
MW-10C	78.28	79.46	78.92	79.37	78.50	77.21	78.25	76.83	76.89	75.91	78.31	78.47	77.34	77.50
MW-11C	78.40	79.55	78.96	79.36	78.52	77.35	78.19	76.39	76.83	75.99	78.18	78.24	77.18	77.34
MW-12C	78.62	79.80	79.17	79.55	78.69	77.62	78.30	76.50	76.98	76.15	78.26	78.05	77.34	77.52
MW-13C	78.77	79.64	79.19	79.49	78.80	77.79	78.38	76.69	77.16	76.12	78.47	77.79	77.70	77.95
MW-14C	79.66	80.75	79.99	80.30	79.29	78.17	78.67	Monitoring Well Abandoned 10 July 2007						
MW-15C	80.21	81.05	80.90	80.76	79.01	78.11	78.25	Monitoring Well Abandoned 10 July 2007						
MW-16C	MW- 16C through MW-23C were constructed as part of the Phases 2 and 3 development in Sep 2007							76.69	77.26	76.08	79.02	78.60	78.41	78.77
MW-17C								76.36	77.02	75.90	79.19	79.23	78.72	79.00
MW-18C								76.84	77.44	76.06	78.82	79.56	78.04	78.64
MW-19C								77.20	77.79	76.25	79.16	79.83	77.76	78.11
MW-20C								77.27	77.79	76.22	79.39	79.85	78.15	78.32
MW-21C								77.28	77.62	75.89	78.94	79.66	77.89	78.39
MW-22C								76.37	76.75	74.98	77.74	77.14	76.77	77.88
MW-23C								74.65	74.48	72.08	74.88	71.77	74.06	76.44

Notes:
NGVD = National Geodetic Vertical Datum of 1929

Table 11-1 (2 of 2)
Groundwater Elevation Measurements
Third Biennial Technical Report on Water Quality
J.E.D. Solid Waste Management Facility

Well ID	PH 1 Baseline Jan-04 (ft, NGVD)	1st Event Jul-04 (ft, NGVD)	2nd Event Jan-05 (ft, NGVD)	3rd Event Jul-05 (ft, NGVD)	4th Event Feb-06 (ft, NGVD)	5th Event Jul-06 (ft, NGVD)	6th Event Feb-07 (ft, NGVD)	PH 2&3 Baseline Sep-07 (ft, NGVD)	7th Event Nov-07 (ft, NGVD)	8th Event May-08 (ft, NGVD)	9th Event Nov-08 (ft, NGVD)	10th Event May-09 (ft, NGVD)	11th Event Nov-09 (ft, NGVD)	12th Event May-10 (ft, NGVD)
DP-1	Piezometer Abandoned 03 October 2003													
DP-2	Piezometer Abandoned 03 October 2003													
DP-3	79.06	80.23	79.63	79.93	Piezometer Abandoned 16 January 2006									
DP-4	79.14	80.73	79.75	80.16	Piezometer Abandoned 16 January 2006									
DP-5	80.60	80.77	81.13	81.11	79.00	77.42	77.44	Piezometer Abandoned 10 July 2007						
DP-6	80.61	80.73	81.30	81.19	79.01	77.38	77.45	Piezometer Abandoned 10 July 2007						
DP-7	78.61	77.93	78.91	79.50	79.24	77.53	78.28	Piezometer Abandoned 10 July 2007						
DP-8	78.53	77.91	79.34	79.37	79.11	77.32	78.21	Piezometer Abandoned 10 July 2007						
DP-9	77.54	77.13	78.30	78.47	78.42	76.28	77.71	Piezometer Abandoned 10 July 2007						
DP-10	77.65	77.04	78.39	78.51	78.54	76.31	77.91	Piezometer Abandoned 10 July 2007						
DP-11	79.90	80.16	NM	80.63	80.06	78.24	78.96	Piezometer Abandoned 10 July 2007						
DP-12	79.99	80.18	NM	80.62	80.07	78.38	79.13	Piezometer Abandoned 10 July 2007						
DP-13	78.74	77.72	79.68	79.70	79.52	77.22	78.41	Piezometer Abandoned 10 July 2007						
DP-14	77.73	76.90	78.18	78.47	78.64	76.17	77.85	75.69	76.50	74.94	77.39	78.90	76.15	76.57
DP-15	77.59	77.00	78.14	78.42	78.55	76.14	77.81	75.78	76.45	74.93	77.45	78.76	76.20	76.66
DP-16	78.66	77.62	78.71	79.46	79.32	77.32	78.67	76.68	77.37	75.85	78.69	79.41	77.09	77.34
DP-17	78.80	77.65	77.66	79.32	79.29	77.27	78.64	76.63	77.30	75.81	78.63	79.38	77.06	77.31
DP-18	80.97	79.67	80.68	80.90	80.95	78.09	79.10	77.20	77.61	75.95	79.09	79.18	78.11	78.61
DP-19	80.42	79.59	80.77	80.98	81.01	78.05	79.18	77.27	77.66	75.99	79.13	79.27	78.12	78.64
DP-20	79.10	80.48	80.23	79.99	80.01	77.46	79.56	76.80	77.62	76.00	80.04	80.17	79.15	77.45
DP-21	78.93	80.41	80.09	79.77	79.77	77.55	79.34	76.87	77.50	75.95	79.70	79.94	78.75	77.58
DP-22	78.03	76.06	78.07	78.29	78.22	76.08	78.00	75.22	75.93	74.47	77.00	78.32	75.50	75.93
DP-23	77.90	76.89	78.24	78.44	78.51	76.42	78.06	75.59	76.33	74.78	77.46	78.61	76.12	76.63
DP-24	78.44	77.67	78.85	78.95	78.98	76.86	78.73	76.22	76.92	75.37	78.46	79.22	76.77	76.88
SZ-1	77.08	77.69	77.92	78.14	77.90	76.50	77.47	Piezometer Abandoned 10 July 2007						
SZ-2	77.20	78.02	77.94	78.34	78.11	76.78	77.73	75.94	76.46	75.06	77.61	77.74	76.59	77.21
SZ-3	76.55	77.17	77.38	77.72	77.55	76.12	77.12	75.22	75.79	74.42	76.94	77.51	75.87	76.47

Notes:
NGVD = National Geodetic Vertical Datum of 1929

The graph displays the groundwater elevation in feet NGVD for five monitoring wells (MW-1A, MW-2A, MW-3A, MW-4A, and MW-5A) from July 2003 to October 2010. The y-axis represents Groundwater Elevation (ft. NGVD) ranging from 74.0 to 82.0. The x-axis represents Time, with labels for Jul-03, Jan-04, Jul-04, Jan-05, Aug-05, Feb-06, Aug-06, Feb-07, Sep-07, Mar-08, Sep-08, Mar-09, Oct-09, Apr-10, and Oct-10. The data shows seasonal fluctuations, with peaks typically occurring in late summer/early fall and troughs in late winter/early spring. A general downward trend is observed in the groundwater elevation over the period, particularly between 2005 and 2007, and again after 2008.

Time	MW-1A	MW-2A	MW-3A	MW-4A	MW-5A
Jan-04	80.6	80.6	80.1	79.7	79.1
Jul-04	81.2	81.4	81.3	81.0	80.5
Jan-05	81.0	81.0	80.7	80.3	79.8
Aug-05	80.8	81.0	80.9	80.8	80.8
Feb-06	78.3	78.4	78.6	78.9	79.5
Aug-06	78.2	79.6	78.9	78.1	78.0
Feb-07	77.3	77.9	78.3	78.7	78.8
Sep-07	75.3	75.9	76.3	76.8	77.0
Mar-08	75.6	77.0	77.4	77.4	77.4
Sep-08	79.1	80.4	80.5	79.9	79.4
Mar-09	75.1	77.3	78.6	79.0	79.2
Oct-09	74.9	75.8	76.6	77.4	78.3
Apr-10	76.8	77.0	77.0	77.6	79.1

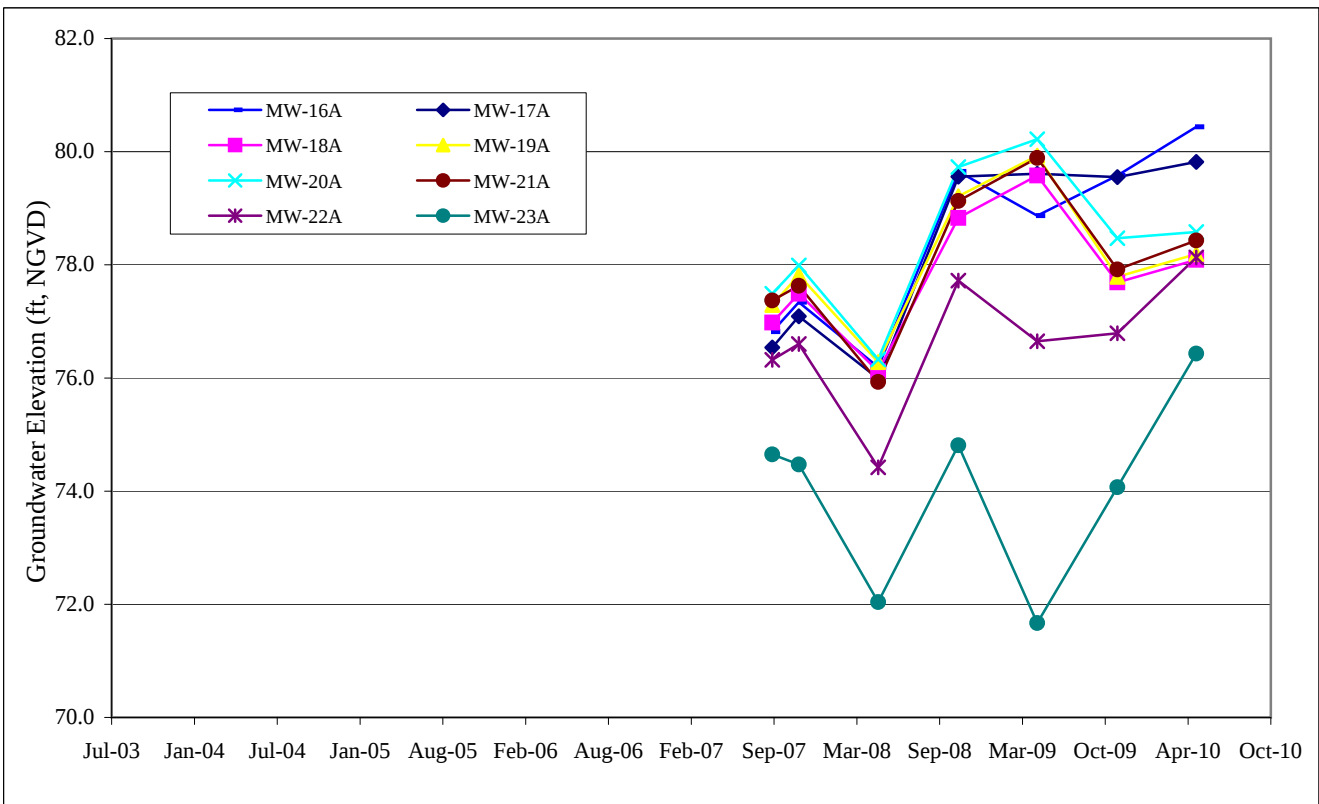
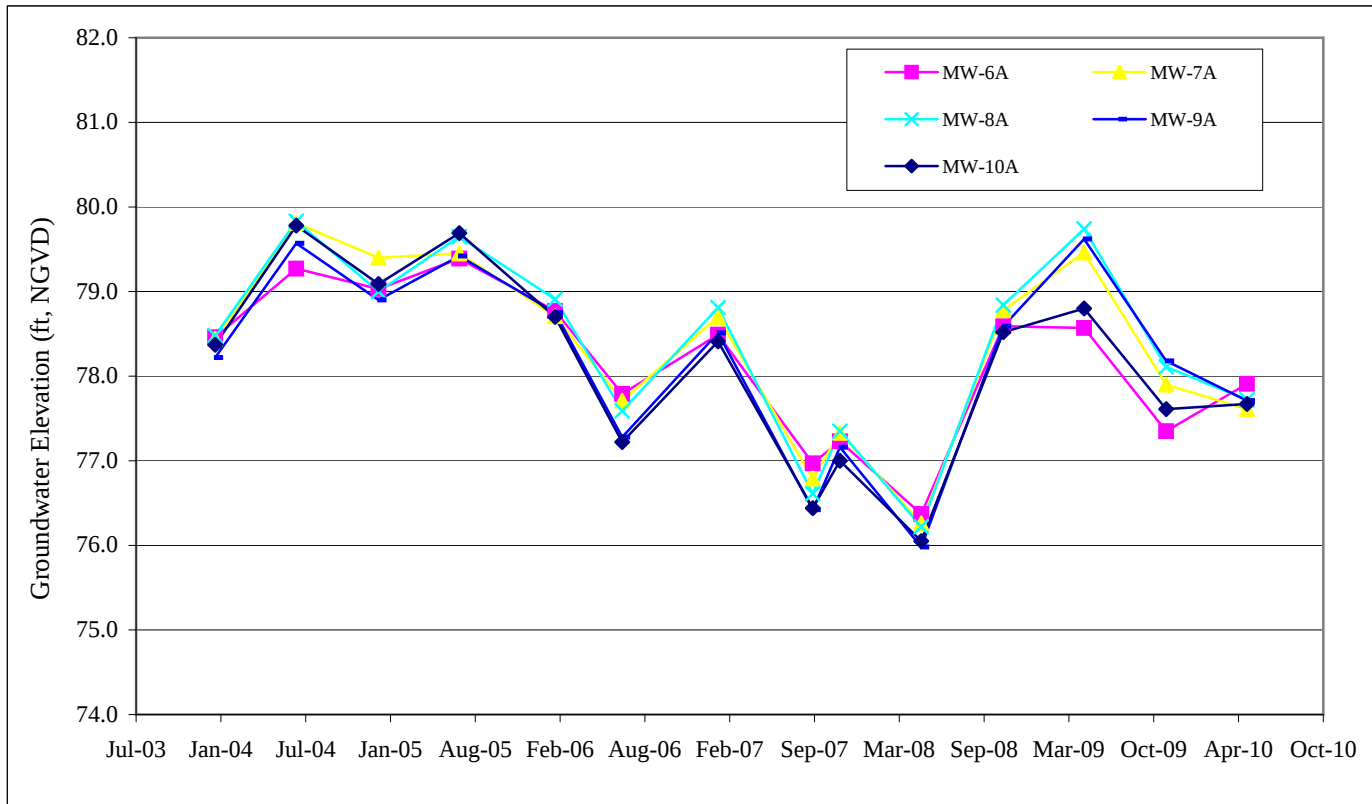
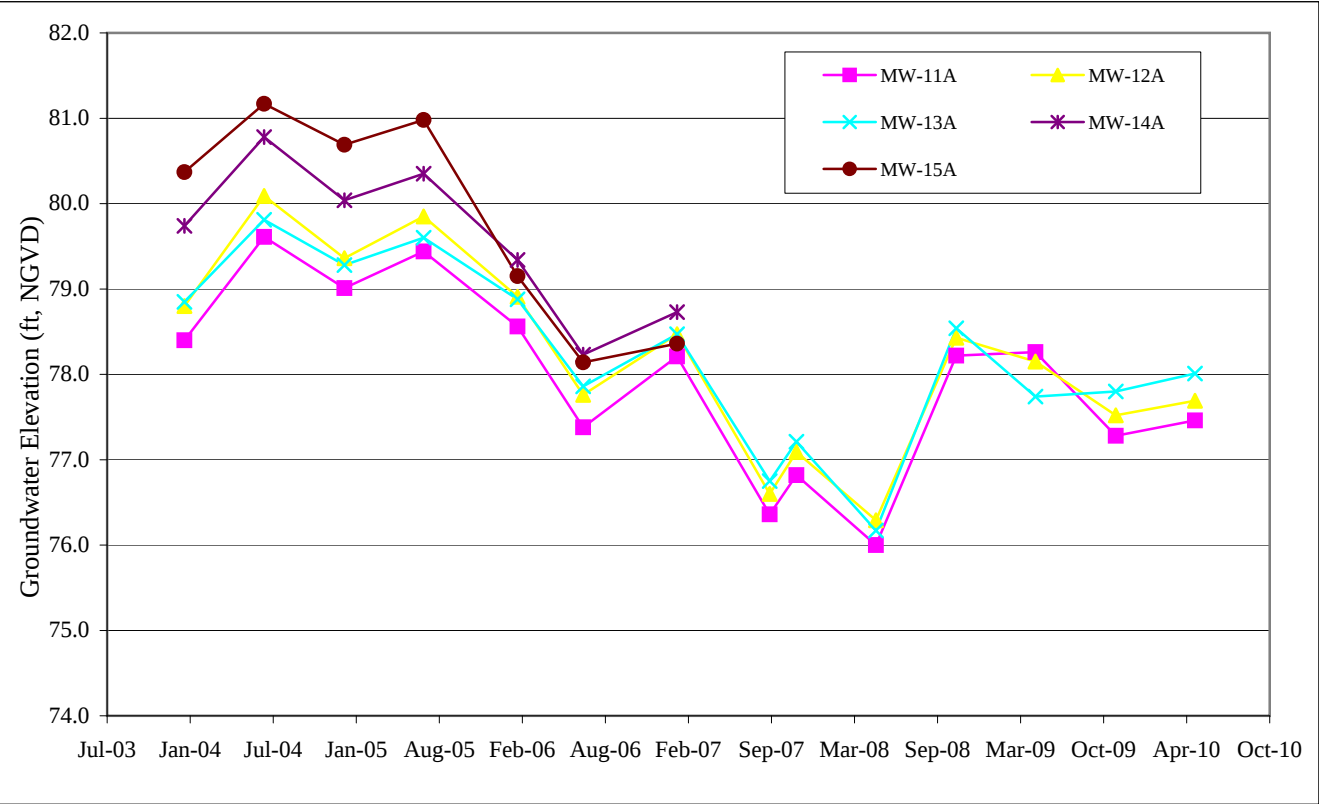


Figure 11-2
Hydrograph of "B" Groundwater Zone (Intermediate) Monitoring Wells
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J.E.D. Solid Waste Management Facility

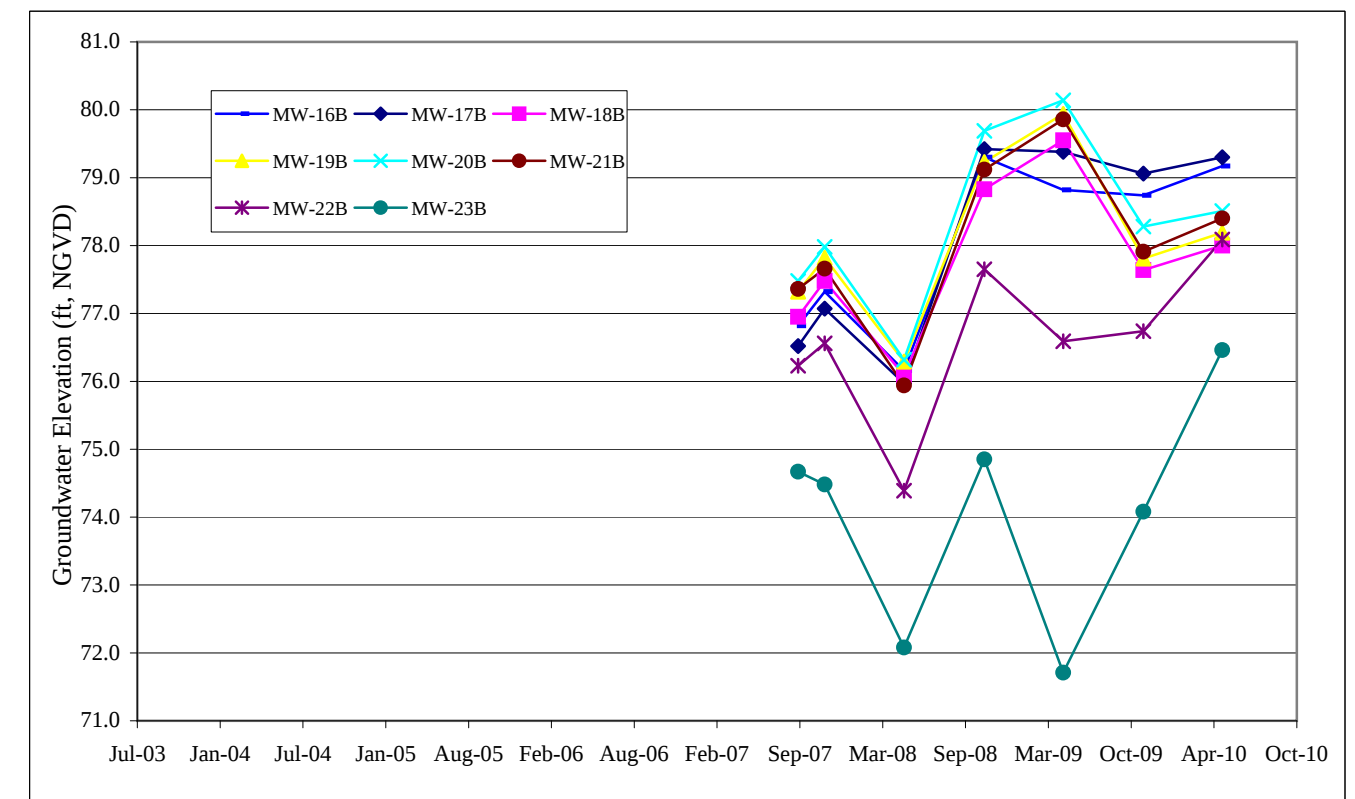
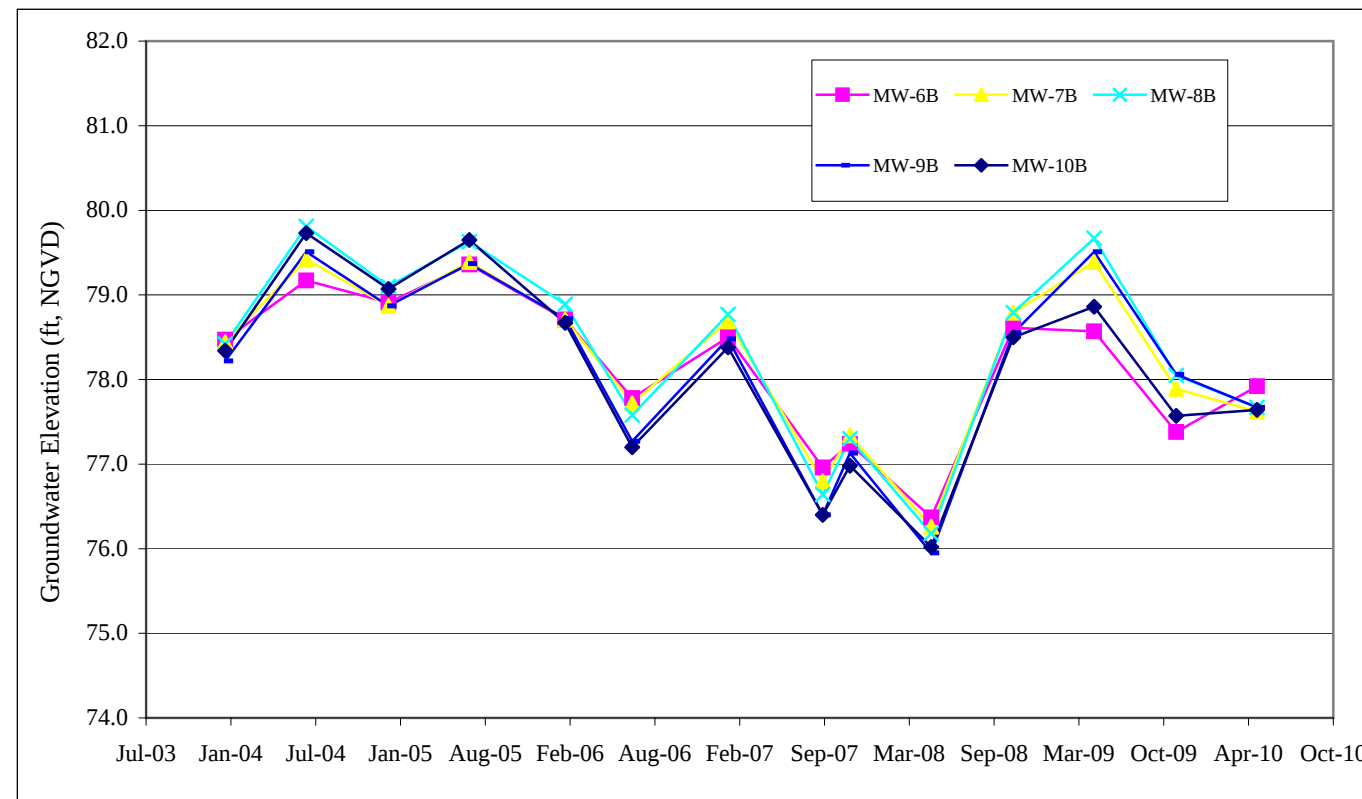
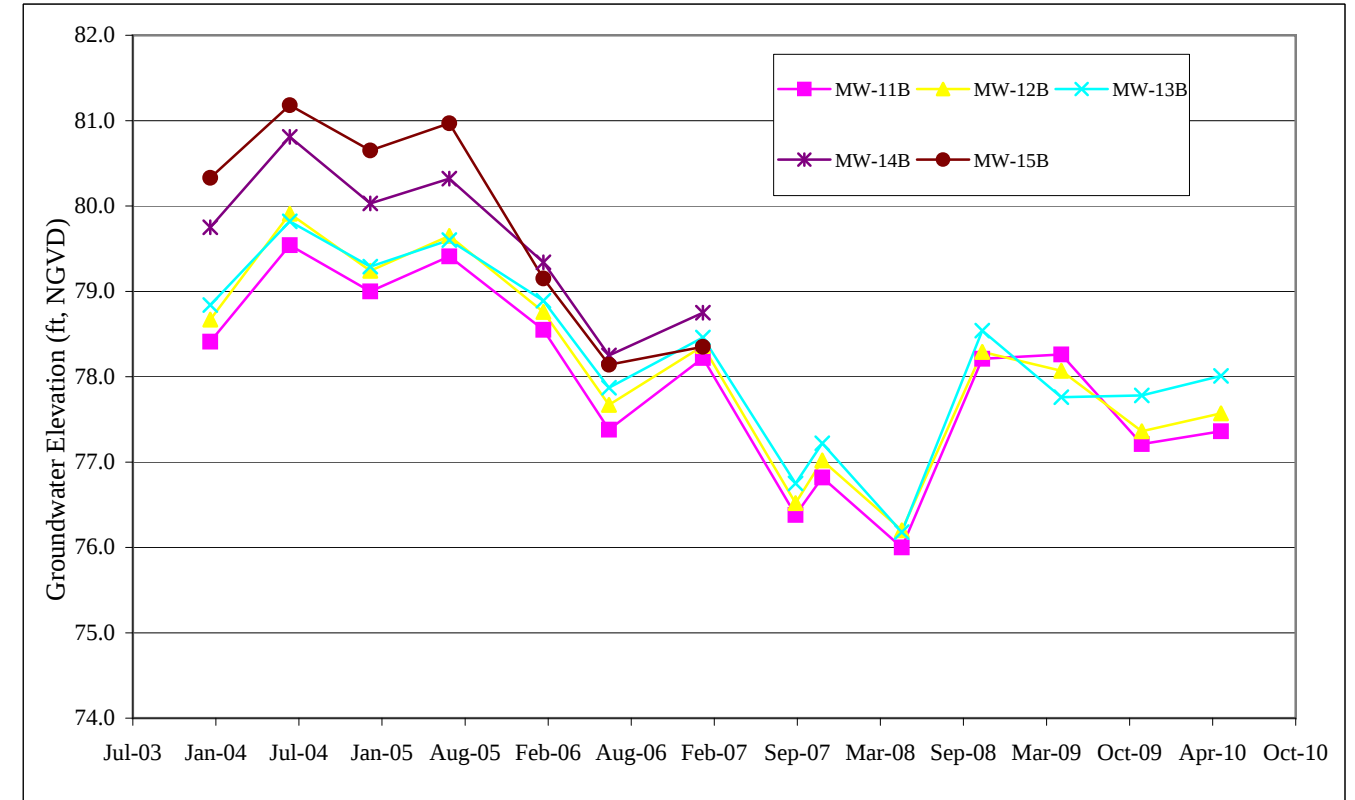
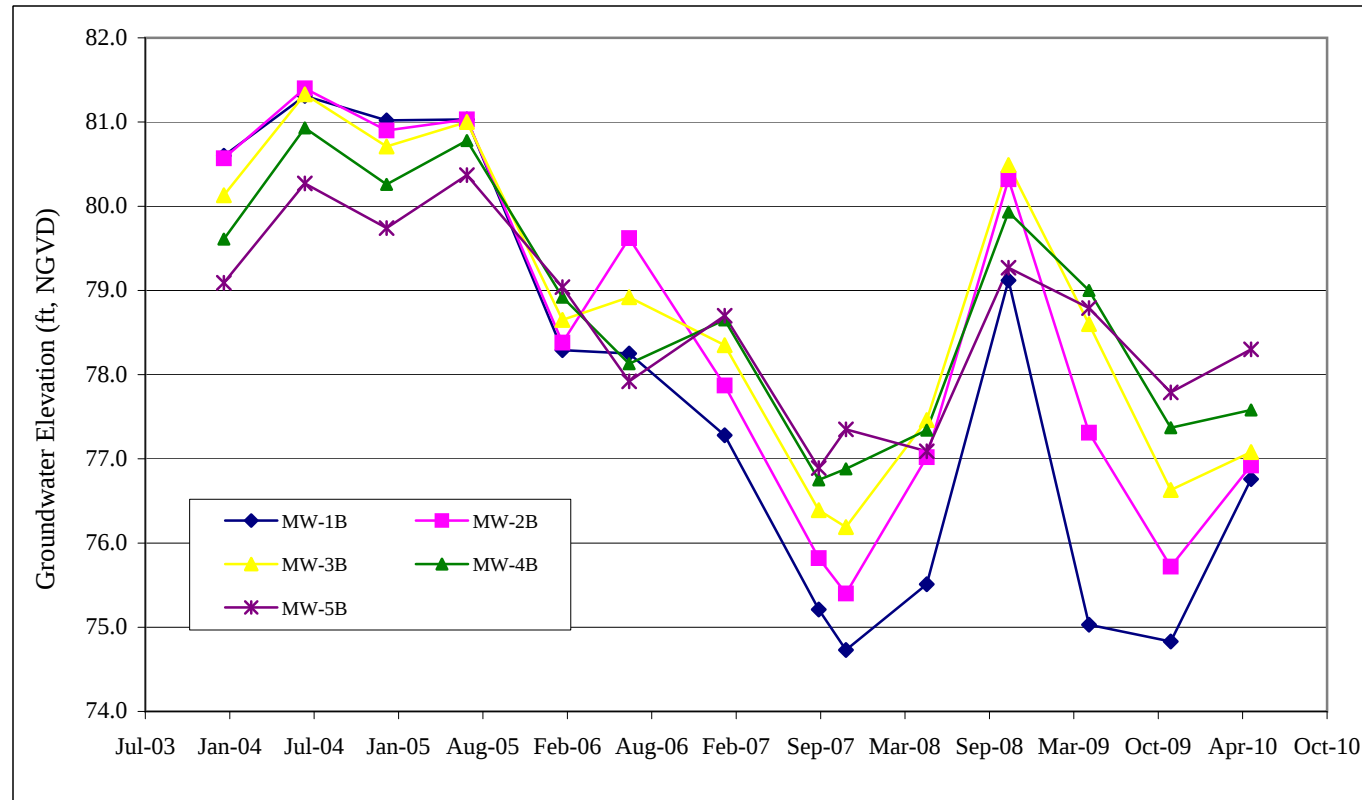


Figure 11-3
Hydrograph of "C" Groundwater Zone (Deep) Monitoring Wells
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J.E.D. Solid Waste Management Facility

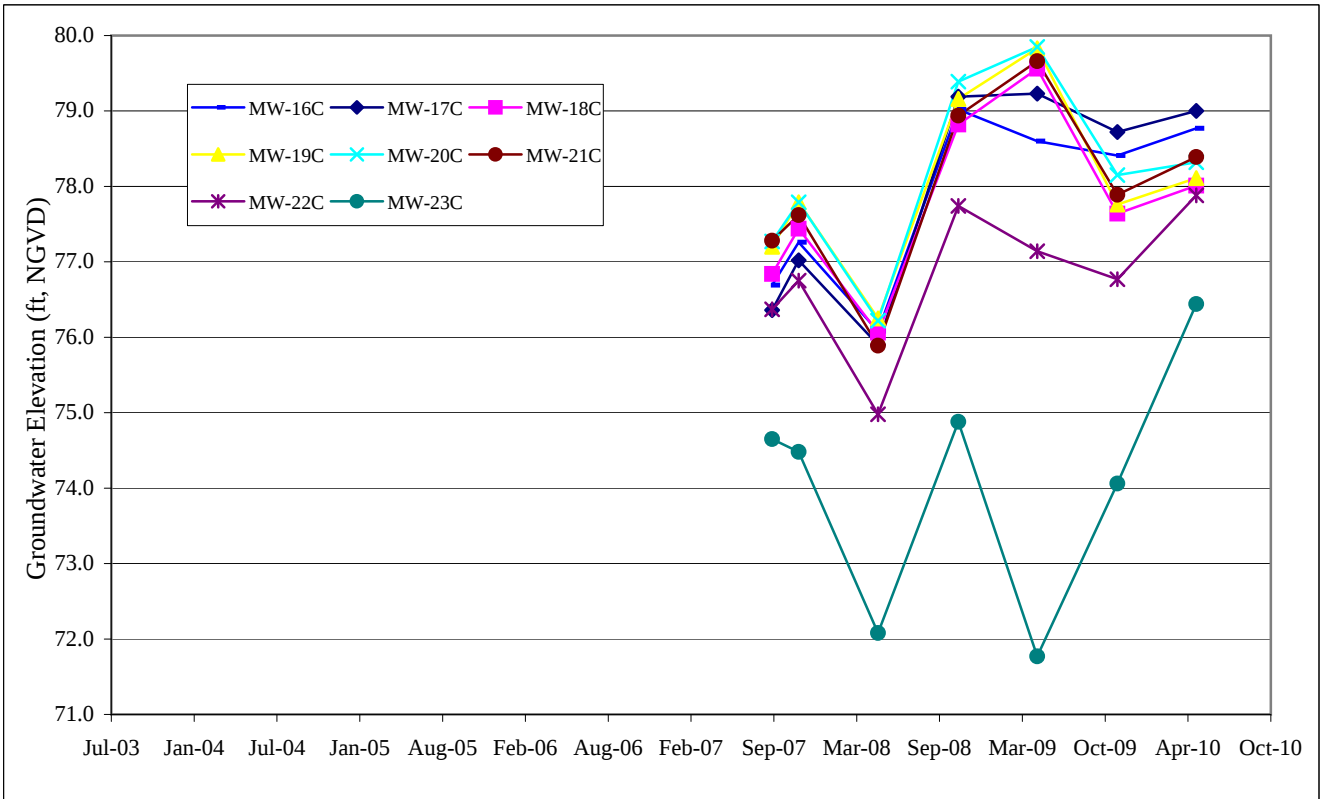
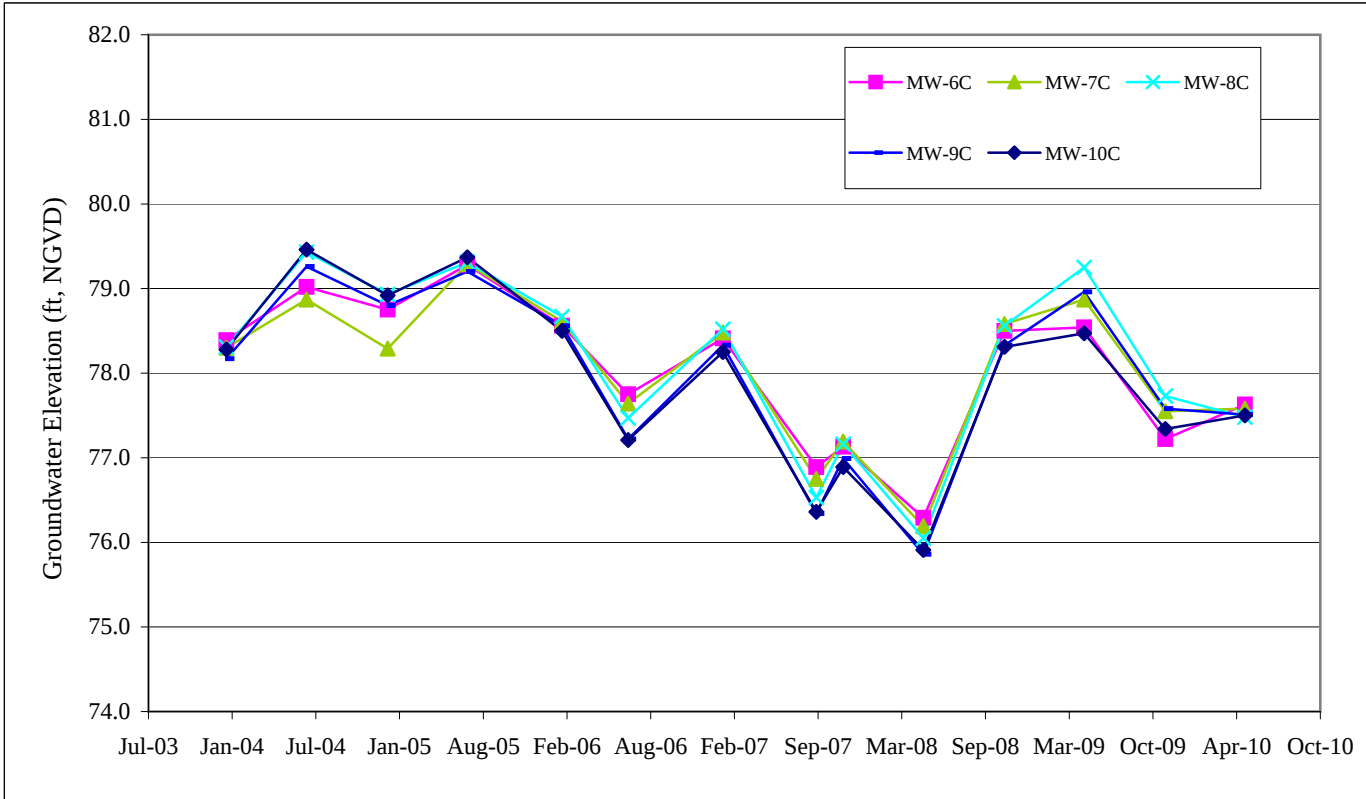
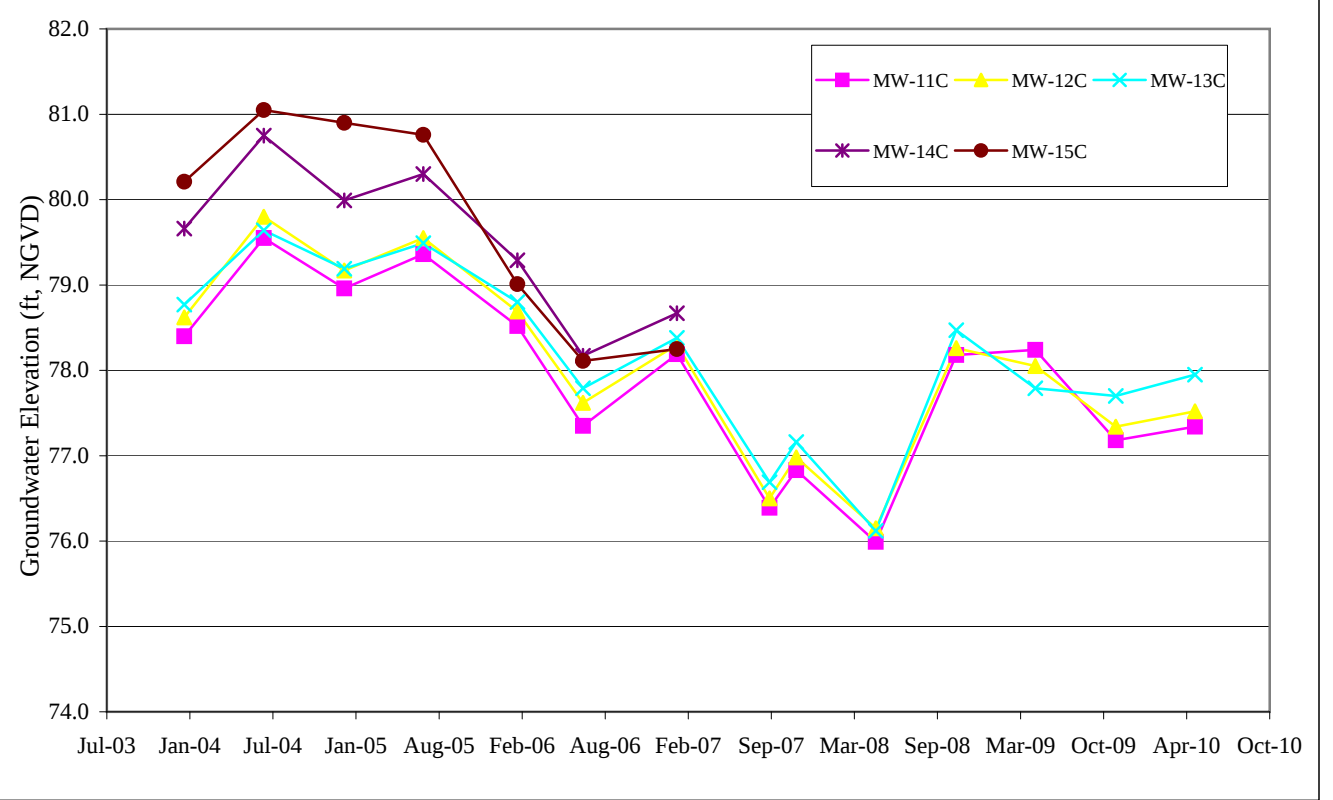
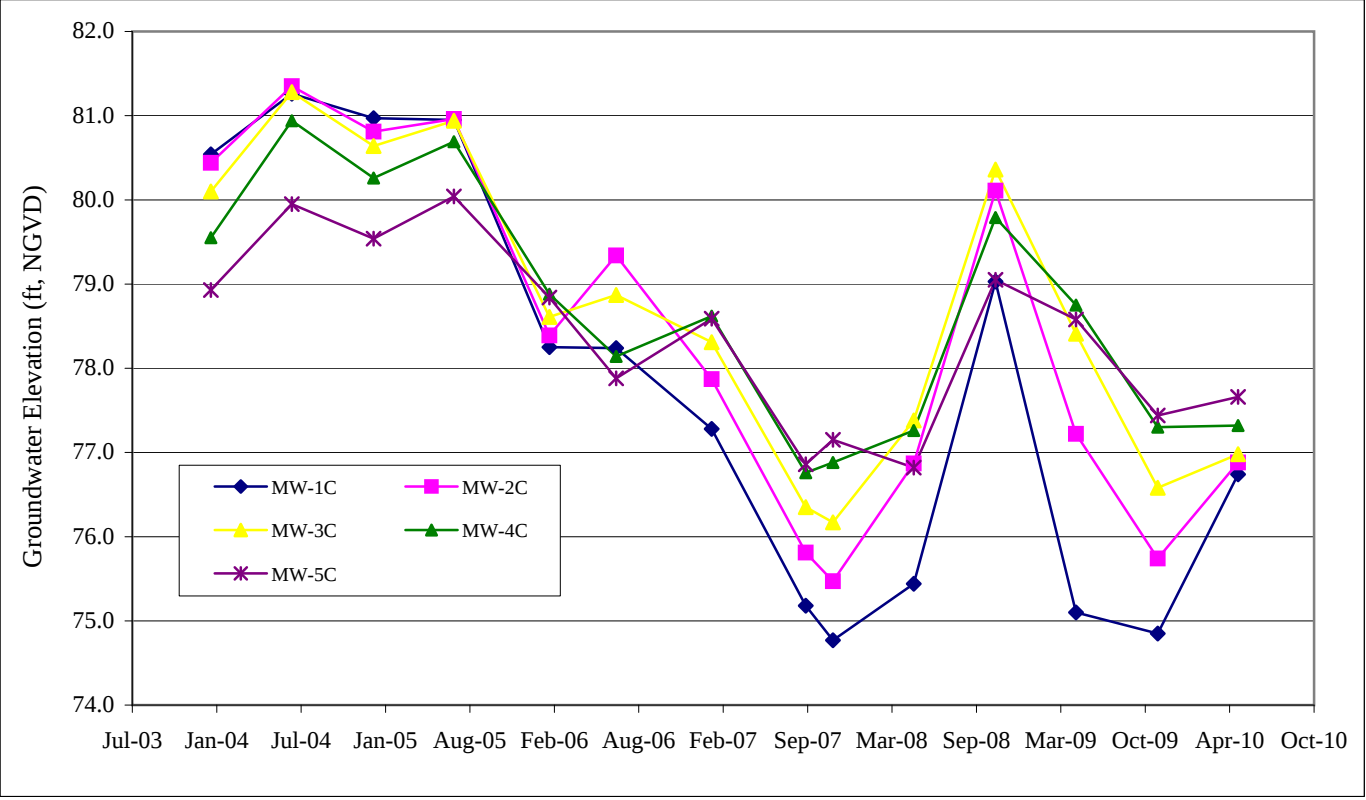


Figure 11-4
Hydrograph for Piezometers
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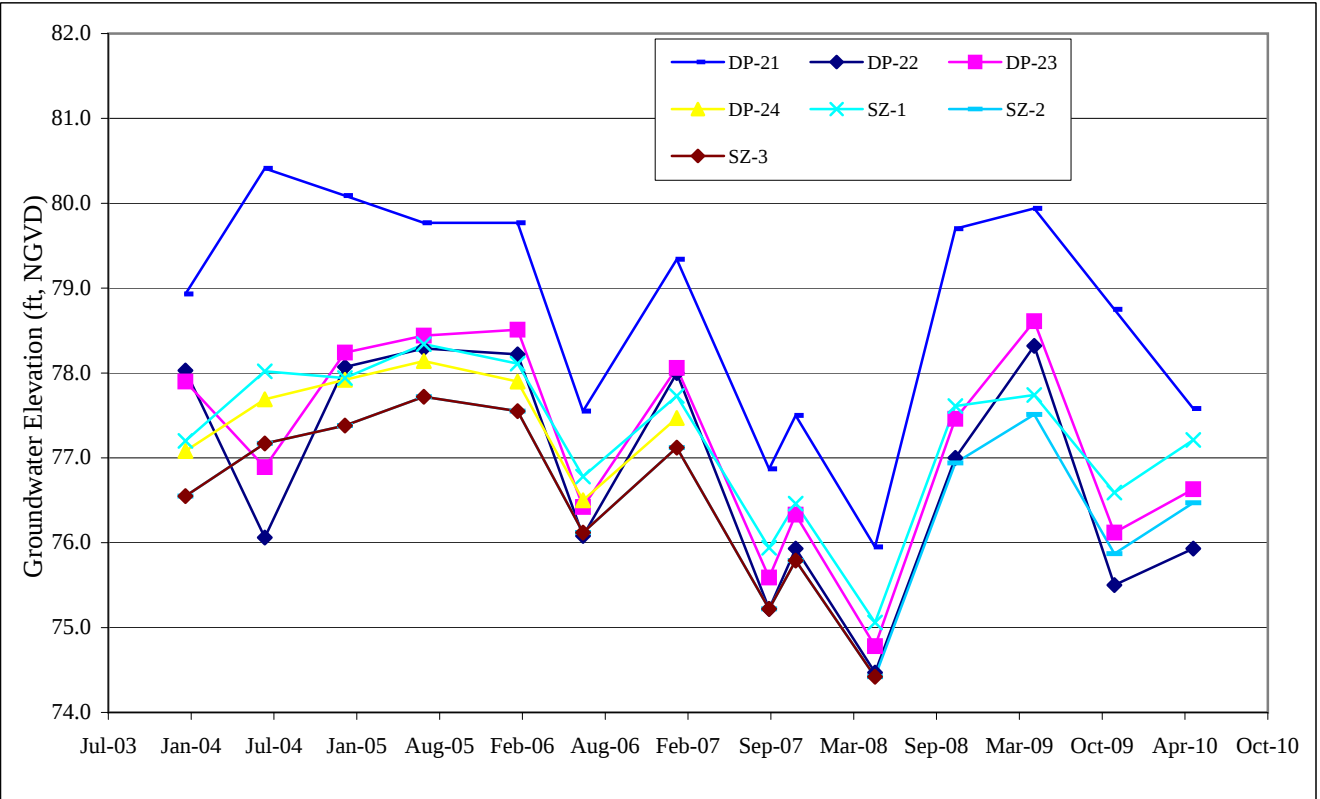
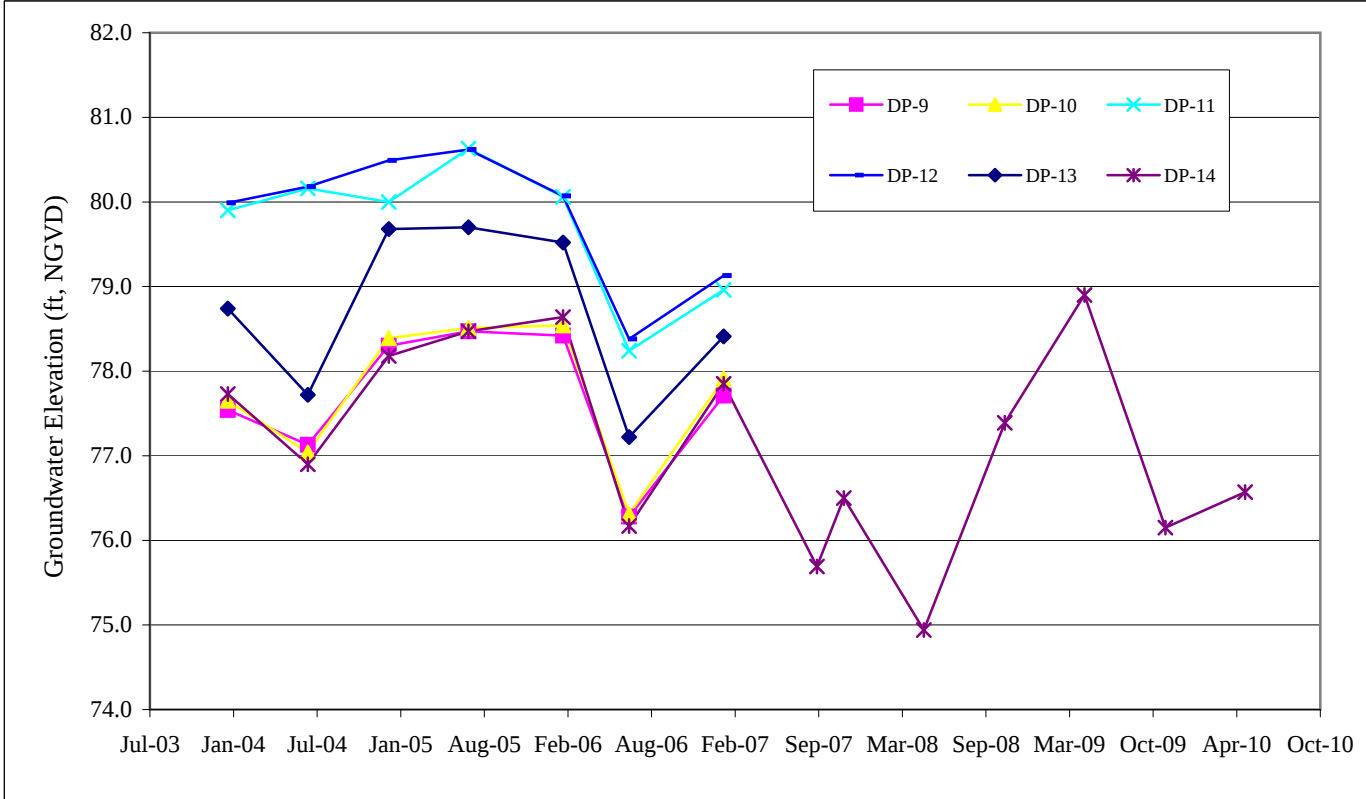
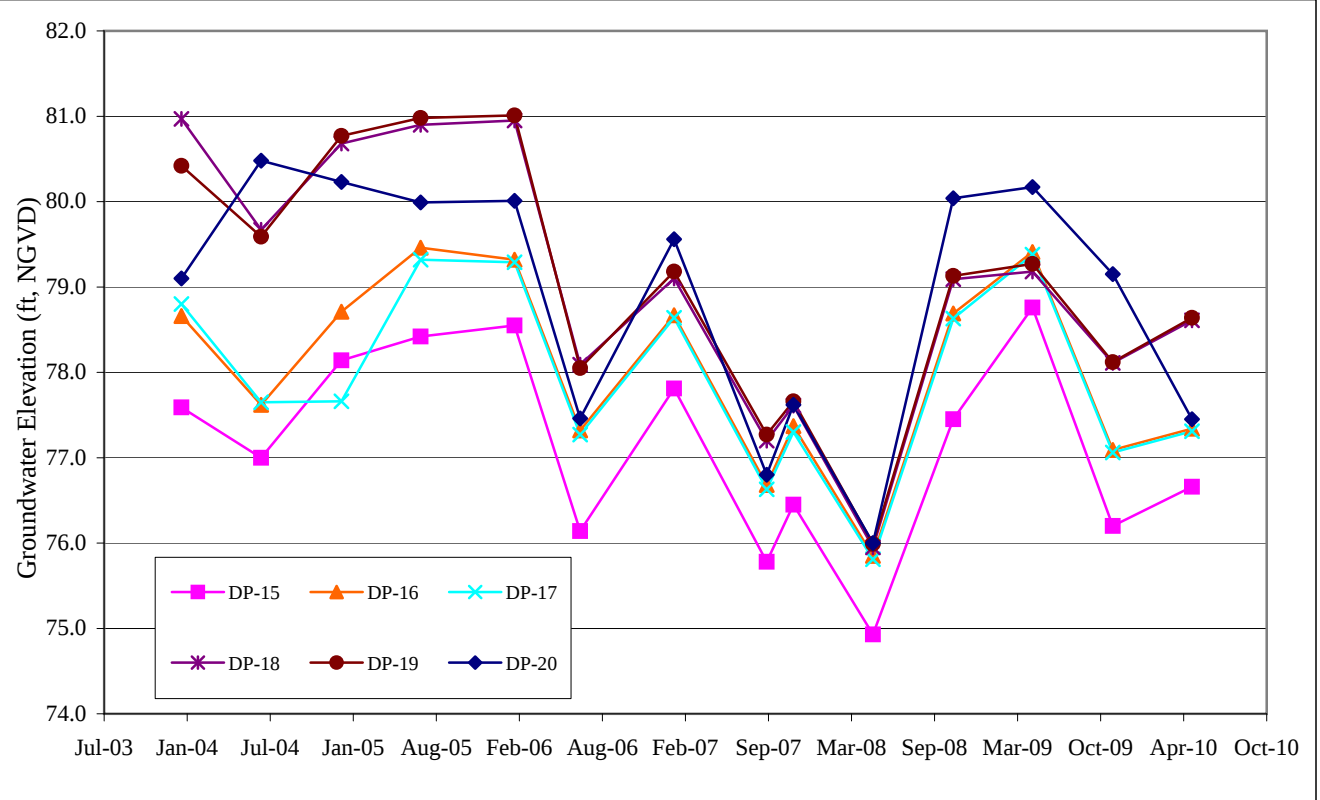
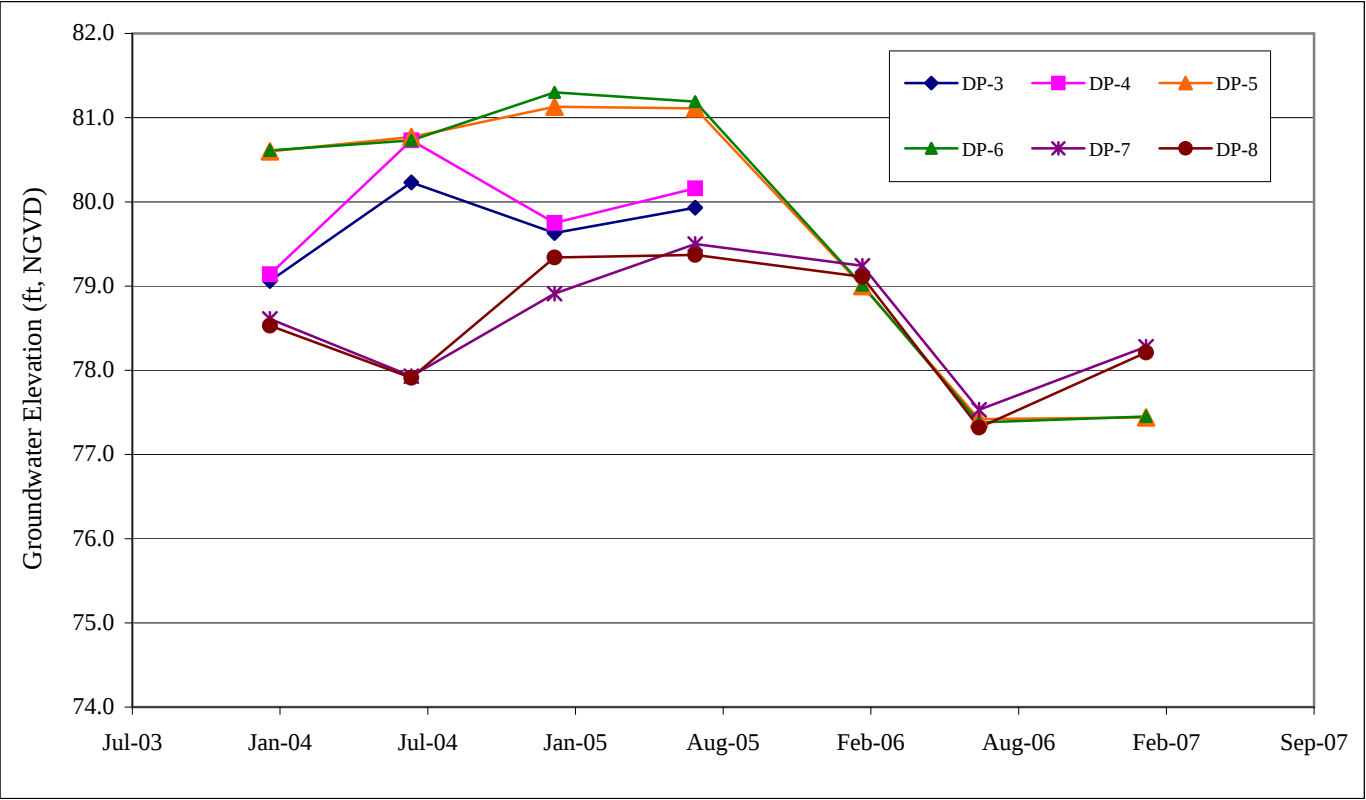


Figure 11-5
Hydrograph of Upgradient Wells (MW-1 and MW-5)
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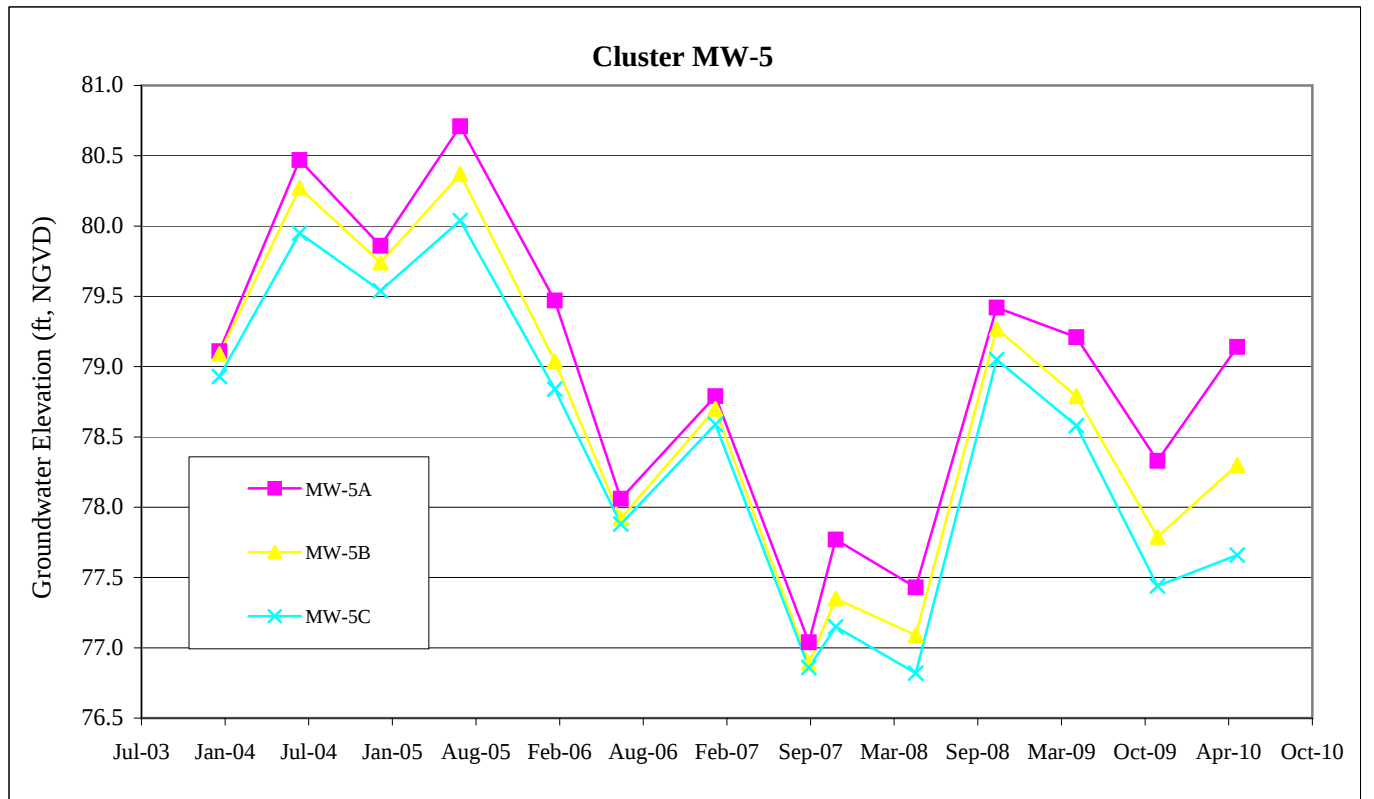
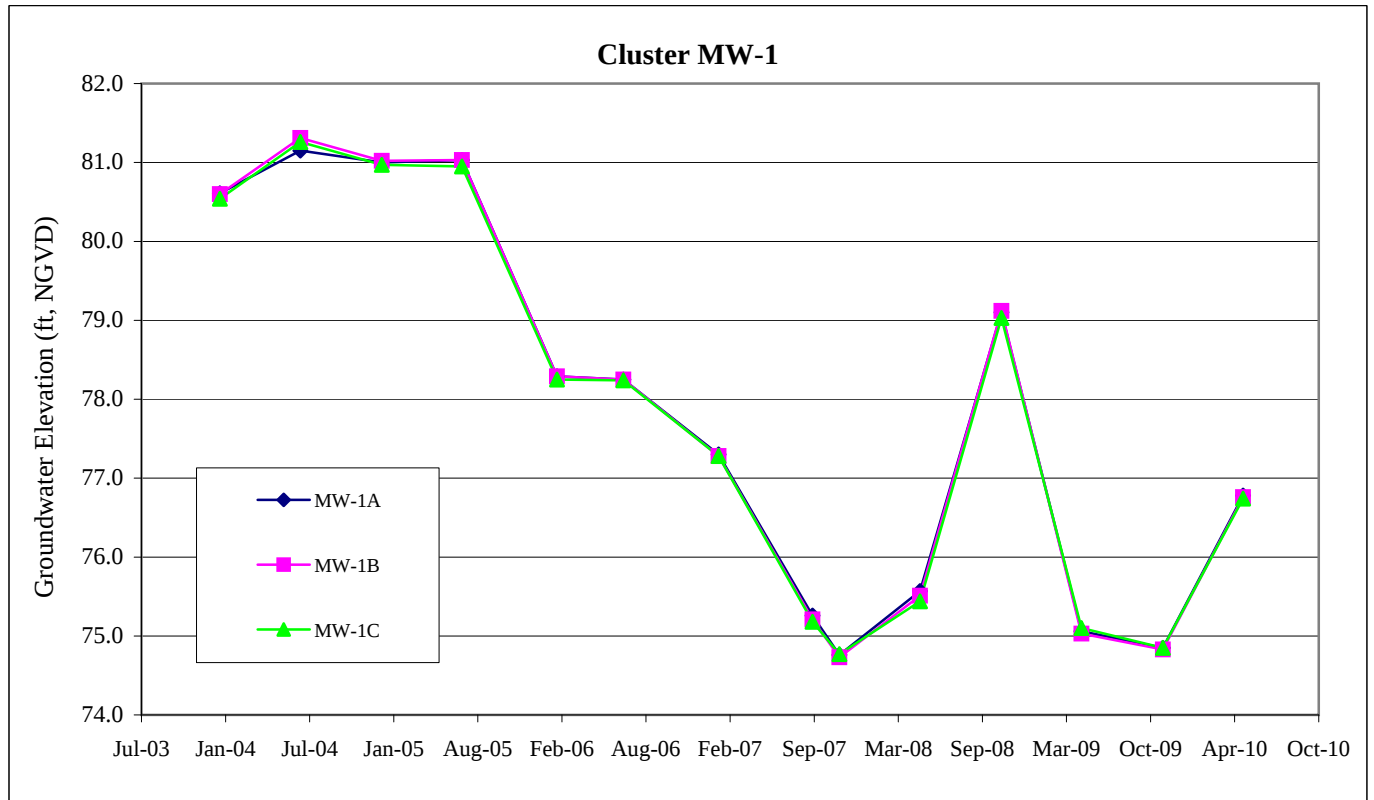
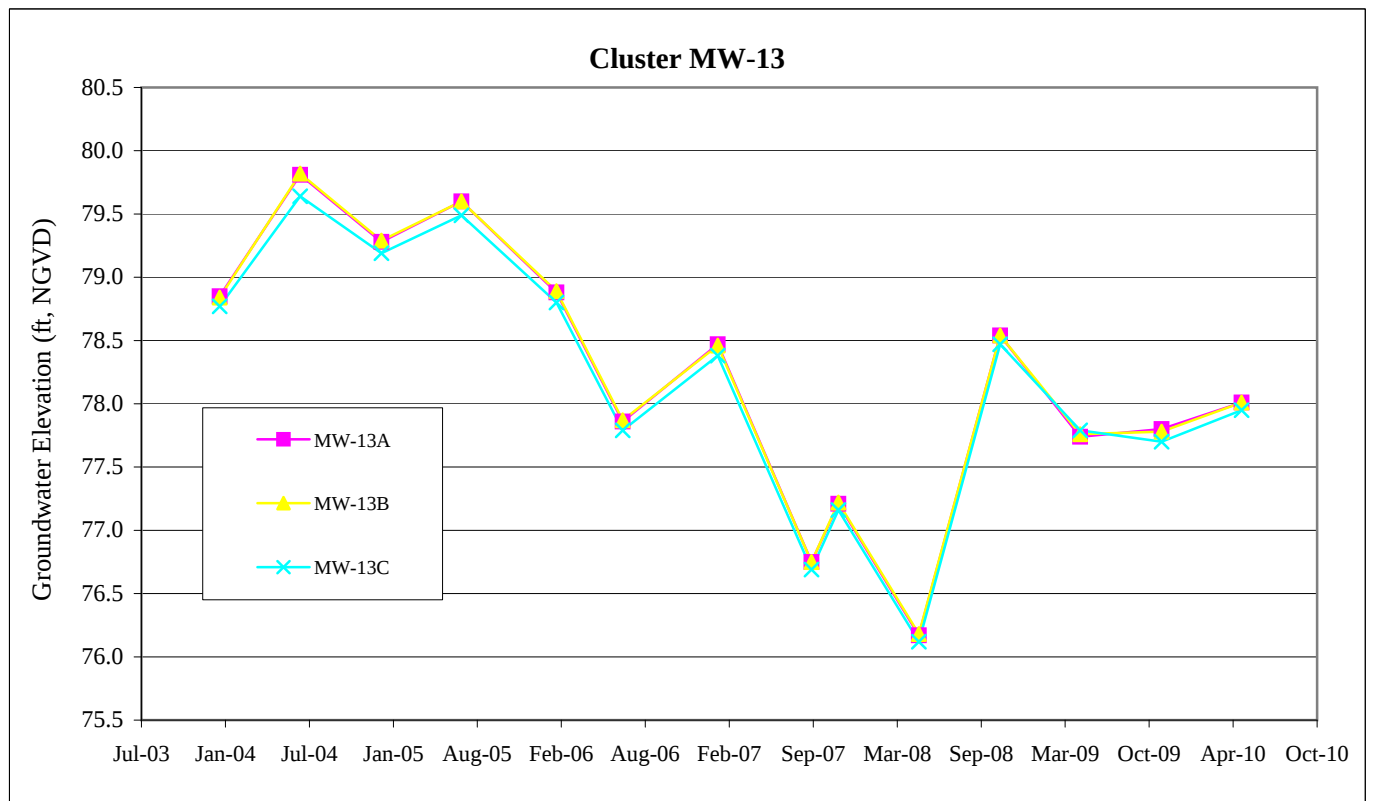
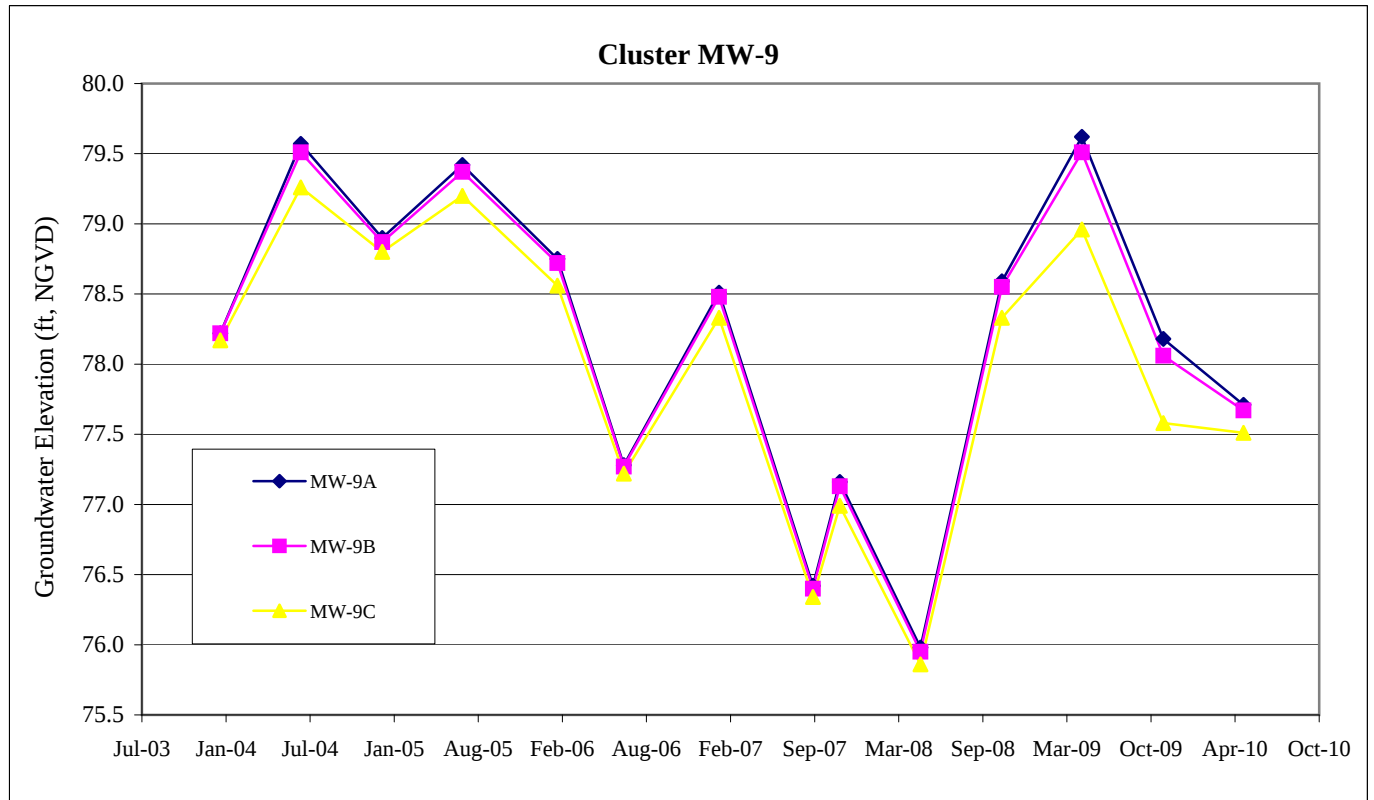


Figure 11-6
Hydrograph of Downgradient Wells (MW-9 and MW-13)
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 J.E.D. Solid Waste Management Facility



12. EVALUATION OF ADEQUACY OF MONITORING FREQUENCY AND SAMPLING LOCATIONS

For the Phase 1 development, forty five (45) groundwater monitoring wells were installed in fifteen (15) clusters (MW-1 through MW-15) around the perimeter of the Phase 1 development area. For development of Phases 2 and 3, twenty four (24) additional groundwater monitoring wells were installed in eight (8) clusters (MW-16 through MW-23) around the perimeter of the Phases 2 and 3 development areas. Monitoring well clusters were located such that a well cluster was installed adjacent to each cell sump area and between cell sump areas, so that the spacing between well clusters was no greater than 500 ft for detection wells and 800 ft for background wells, in accordance with the FDEP permit requirements. As part of Phases 2 and 3 development, and as approved by FDEP, six (6) existing Phase 1 monitoring wells (MW-14 A, B, and C, and MW-15 A, B, and C), and ten (10) piezometers were decommissioned. The wells and piezometers were decommissioned for construction of future cells, construction of a storm water retention basin located within Phases 2 and 3, and due to the proximity of piezometers to the new network wells installed.

Vertically, three (3) groundwater monitoring wells were installed to monitor: (i) the upper limit of the surficial aquifer below the ground surface identified as A-zone (shallow) wells; (ii) the lower limit of the upper surficial aquifer above the intermediate clay layer identified as C-zone (deep) wells; and (iii) an intermediate depth between the shallow and deep wells identified as B-zone (intermediate) wells. Of the twenty one (21) monitoring well clusters, six (6) are classified as background wells (clusters MW-2, 3, 4, 5, 22 and 23), thirteen (13) are classified as detection wells (clusters MW-7 through MW-13 and MW-16 through MW-21), and two (2) are classified as piezometers (MW-1 and MW-6)

Currently, the A-zone (shallow) monitoring wells in clusters MW-1 through MW-13, 19, and 23 are sampled on a semi-annual basis. The A-zone, B-zone (intermediate) and C-zone (deep) wells at cluster MW-16 are also sampled on a semi-annual basis. The B-zone monitoring wells at the clusters listed above are sampled annually during the May semi-annual monitoring events and the corresponding C-zone monitoring wells are sampled annually during the November semi-annual monitoring events. This monitoring well network encompasses the Phase 1 and 2 development areas where waste placement has commenced and is adequate for monitoring of the groundwater at the JED facility.

The semi-annual monitoring frequency is considered to be adequate for the JED facility. Groundwater flow rates are on the order of 10 feet per year at a maximum (Section 11) due to the lack of a driving hydraulic head. From a purely technical standpoint, a much

longer monitoring frequency could be justified; however, a semi-annual monitoring frequency will be more than sufficient to provide maximum detection efficiency at the site.

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APPENDIX A

**CD CONTAINING LABORATORY REPORTS FOR
9TH – 12TH SEMI-ANNUAL MONITORING EVENTS**

APPENDIX B

TABLES SHOWING DETECTED PARAMETERS WITH NO REGULATORY LEVELS EXCEEDED

Well ID	Type	PH 1 Baseline Jan-04 (µg/L)		1st Event Jul-04 (µg/L)	2nd Event Jan-05 (µg/L)	3rd Event Jul-05 (µg/L)	4th Event Feb-06 (µg/L)	5th Event Jul-06 (µg/L)	6th Event Feb-07 (µg/L)	PH 2&3 Baseline Sep-07 (µg/L)	7th Event Nov-07 (µg/L)	8th Event May-08 (µg/L)	9th Event Nov-08 (µg/L)	10th Event May-09 (µg/L)	11th Event Nov-09 (µg/L)	12th Event May-10 (µg/L)										
MW-1A	B	50	U	13	9.9	U	5	U	4.0	I	1.9	U	1.9	U	2.4	U	2.4	U	5.6	U						
MW-2A	B	50	U	9.9	U	9.9	U	5	U	1.9	U	1.9	U	1.9	U	2.4	U	2.4	U	5.6	U					
MW-3A	B	50	U	9.9	U	9.9	U	5	U	3.7	I	1.9	U	1.9	U	2.4	U	2.4	U	5.6	U					
MW-4A	B	50	U	9.9	U	9.9	U	5	U	1.9	U	1.9	U	1.9	U	2.4	U	2.4	U	5.6	U					
MW-5A	B	50	U	9.9	U	9.9	U	5	U	1.9	U	1.9	U	1.9	U	2.4	U	2.4	U	5.6	U					
MW-6A	B	50	U	9.9	U	9.9	U	5	U	1.9	U	1.9	U	1.9	U	2.4	U	2.4	U	5.6	U					
MW-7A	D	50	U	9.9	U	9.9	U	5	U	1.9	U	1.9	U	1.9	U	2.4	U	2.4	U	5.6	U					
MW-8A	D	50	U	9.9	U	9.9	U	5	U	1.9	U	1.9	U	1.9	U	2.4	U	2.4	U	5.6	U					
MW-9A	D	50	U	9.9	U	9.9	U	5	U	1.9	U	1.9	U	1.9	U	2.4	U	2.4	U	5.6	U					
MW-10A	D	50	U	9.9	U	9.9	U	5	U	1.9	U	1.9	U	1.9	U	2.4	U	2.4	U	5.6	U					
MW-11A	D	50	U	9.9	U	9.9	U	5	U	5.4	I	5	J	1.9	U	2.4	U	2.4	U	5.6	U					
MW-12A	D	50	U	9.9	U	9.9	U	7.20	I	4.6	I	1.9	U	7.2	I	2.4	U	2.4	U	5.6	U					
MW-13A	D	50	U	9.9	U	9.9	U	7.70	I	1.9	U	1.9	U	1.9	U	2.4	U	2.4	U	5.6	U					
MW-14A	D	50	U	9.9	U	9.9	U	6.30	I	1.9	U	4.9	J	1.9	U	2.4	U	2.4	U	5.6	U					
MW-15A	D	50	U	9.9	U	9.9	U	5	U	1.9	U	1.9	U	1.9	U	MW-14A & MW-15A were abandoned in July 2007										
MW-16A	D	MW- 16A through MW-23A were constructed as part of the Phases 2 and 3 development in Sep 2007									16	I	32.0	I	1.7	U	2.4	U	2.4	U	2.4	U	5.6	U		
MW-17A	D										7.9	I	1.9	U	1.7	U	2.4	U	NA		NA		NA		NA	
MW-18A	D										1.9	U	1.9	U	1.7	U	2.4	U	NA		NA		NA		NA	
MW-19A	D										49	I	1.9	U	6	I	2.4	U	2.4	U	2.4	U	2.4	U	5.6	U
MW-20A	D										4.9	I	1.9	U	1.7	U	13	I	NA		NA		NA		NA	
MW-21A	D										1.9	U	1.9	U	1.7	U	2.4	U	NA		NA		NA		NA	
MW-22A	B										1.9	U	1.9	U	1.7	U	2.4	U	NA		NA		NA		5.6	U
MW-23A	B										6.1	I	1.9	U	1.7	U	2.4	U	2.4	U	2.4	U	2.4	U	5.6	U
MW-1B	B	50	U	9.9	U	9.9	U	5	U	1.9	U	1.9	U	1.9	U	2.4	U	NA		5.6	U					
MW-2B	B	50	U	9.9	U	9.9	U	5	U	1.9	U	1.9	U	1.9	U	2.4	U	NA		5.6	U					
MW-3B	B	50	U	9.9	U	9.9	U	5	U	1.9	U	1.9	U	1.9	U	2.4	U	NA		5.6	U					
MW-4B	B	50	U	9.9	U	9.9	U	5	U	1.9	U	1.9	U	1.9	U	2.4	U	NA		6	I					
MW-5B	B	50	U	9.9	U	9.9	U	5	U	1.9	U	1.9	U	1.9	U	2.4	U	NA		5.6	U					
MW-6B	B	50	U	9.9	U	9.9	U	5	U	1.9	U	1.9	U	1.9	U	2.4	U	NA		5.6	U					
MW-7B	D	50	U	9.9	U	9.9	U	5	U	1.9	U	1.9	U	1.9	U	2.4	U	NA		5.6	U					
MW-8B	D	50	U	9.9	U	9.9	U	5	U	1.9	U	1.9	U	1.9	U	2.4	U	NA		5.6	U					
MW-9B	D	50	U	9.9	U	9.9	U	5	U	1.9	U	1.9	U	1.9	U	2.4	U	NA		5.6	U					
MW-10B	D	50	U	9.9	U	9.9	U	5	U	2.9	I	1.9	U	1.9	U	2.4	U	NA		5.6	U					
MW-11B	D	50	U	9.9	U	9.9	U	5	U	1.9	U	2.5	J	1.9	U	2.4	U	NA		5.6	U					
MW-12B	D	50	U	9.9	U	9.9	U	5	U	2.9	I	1.9	U	1.9	U	2.4	U	NA		5.6	U					
MW-13B	D	50	U	9.9	U	9.9	U	5	U	1.9	U	1.9	U	1.9	U	2.4	U	NA		5.6	U					
MW-14B	D	50	U	9.9	U	9.9	U	5	U	3.3	I	1.9	U	1.9	U	2.4	U	NA		5.6	U					
MW-15B	D	50	U	9.9	U	9.9	U	5	U	1.9	U	1.9	U	1.9	U	MW-14B & MW-15B were abandoned in July 2007										
MW-16B	D	MW- 16B through MW-23B were constructed as part of the Phases 2 and 3 development in Sep 2007									5.4	I	1.9	U	1.7	U	2.4	U	2.4	U	2.4	U	5.6	U		
MW-17B	D										1.9	U	1.9	U	1.7	U	2.4	U	2.4	U	2.4	U	NA		5.6	U
MW-18B	D										1.9	U	1.9	U	1.7	U	2.4	U	2.4	U	2.4	U	NA		5.6	U
MW-19B	D										3.3	I	6.8	I	1.7	U	3.7	I	2.4	U	2.4	U	NA		5.6	U
MW-20B	D										3.8	I	5.7	I	1.7	U	2.4	U	2.4	U	2.4	U	NA		5.6	U
MW-21B	D										1.9	U	1.9	U	1.7	U	2.4	U	2.4	U	2.4	U	NA		5.6	U
MW-22B	B										1.9	U	1.9	U	1.7	U	2.4	U	2.4	U	2.4	U	NA		5.6	U
MW-23B	B										1.9	U	1.9	U	1.7	U	2.4	U	2.4	U	2.4	U	NA		5.6	U
MW-1C	B	50	U	9.9	U	9.9	U	5	U	1.9	U	1.9	U	1.9	U	2.4	U	NA		NA						
MW-2C	B	50	U	9.9	U	9.9	U	5	U	1.9	U	1.9	U	1.9	U	2.4	U	NA		NA						
MW-3C	B	50	U	9.9	U	9.9	U	5	U	1.9	U	1.9	U	1.9	U	2.4	U	NA		NA						
MW-4C	B	50	U	9.9	U	9.9	U	5	U	1.9	U	1.9	U	1.9	U	2.4	U	NA		NA						
MW-5C	B	50	U	9.9	U	9.9	U	5	U	1.9	U	1.9	U	1.9	U	2.4	U	NA		NA						
MW-6C	B	50	U	9.9	U	9.9	U	5	U	1.9	U	1.9	U	1.9	U	2.4	U	NA		NA						
MW-7C	D	50	U	9.9	U	9.9	U	5	U	1.9	U	1.9	U	1.9	U	2.4	U	NA		NA						
MW-8C	D	50	U	9.9	U	9.9	U	5	U	1.9	U	1.9	U	1.9	U	2.4	U	NA		NA						
MW-9C	D	50	U	9.9	U	9.9	U	5	U	1.9	U	1.9	U	1.9	U	2.4	U	NA		NA						
MW-10C	D	50	U	9.9	U	9.9	U	5	U	3.3	I	1.9	U	1.9	U	2.4	U	NA		NA						
MW-11C	D	50	U	9.9	U	9.9	U	5	U	3.7	I	1.9	U	1.9	U	2.4	U	NA		NA						
MW-12C	D	50	U	9.9	U	9.9	U	5	U	1.9	U	1.9	U	1.9	U	2.4	U	NA		NA						
MW-13C	D	50	U	9.9	U	9.9	U	5	U	1.9	U	1.9	U	1.9	U	2.4	U	NA		NA						
MW-14C	D	50	U	9.9	U	9.9	U	5	U	1.9	U	1.9	U	1.9	U	2.4	U	NA		NA						
MW-15C	D	50	U	9.9	U	9.9	U	5	U	1.9	U	1.9	U	1.9	U	MW-14C & MW-15C were abandoned in July 2007										
MW-16C	D	MW- 16C through MW-23C were constructed as part of the Phases 2 and 3 development in Sep 2007									1.9	U	1.9	U	1.7	U	2.4	U	2.4	U	2.4	U	5.6	U		
MW-17C	D										1.9	U	1.9	U	1.7	U	2.4	U	NA		NA		NA		NA	
MW-18C	D										1.9	U	1.9	U	1.7	U	2.4	U	NA		NA		NA		NA	
MW-19C	D										3.5	I	1.9	U	1.7	U	2.4	U	NA		NA		NA		NA	
MW-20C	D										1.9	U	1.9	U	1.7	U	2.4	U	NA		NA		NA		NA	
MW-21C	D										1.9	U	1.9	U	1.7	U	2.4	U	NA		NA		NA		NA	
MW-22C	B										1.9	U	1.9	U	1.7	U	2.4	U	NA		NA		NA		NA	
MW-23C	B										1.9	U	1.9	U	1.7	U	2.4	U	NA		2.4	U	NA		2.4	U

Notes:
µg/L=micrograms per liter
U = Not detected at value represented
I = Value is estimated to be between method detection limit and practical quantitation limit.
NA = Not Analyzed
Well type: (B) Background well (D) Detection well
Constituent detections are shown in shaded cells (green color)
Constituent detections exceeding the GWCTL are shown in shaded cells (tan color)
MW-14A, 14B, 14C and MW-15A, 15B, 15C were decommissioned on 10 July 2007

Well ID	Type	PH 1 Baseline Jan-04 (µg/L)		1st Event Jul-04 (µg/L)		2nd Event Jan-05 (µg/L)		3rd Event Jul-05 (µg/L)		4th Event Feb-06 (µg/L)		5th Event Jul-06 (µg/L)		6th Event Feb-07 (µg/L)		PH 2&3 Baseline Sep-07 (µg/L)	7th Event Nov-07 (µg/L)		8th Event May-08 (µg/L)		9th Event Nov-08 (µg/L)		10th Event May-09 (µg/L)		11th Event Nov-09 (µg/L)		12th Event May-10 (µg/L)		
MW-1A	B	5	U	2.9	U	2.9	U	1.5	U	0.088	U	0.12	I	0.088	U	MW-1A through MW-15A are monitoring wells constructed as part of the Phase 1 development	NA		NA		NA		0.4	U	0.4	U	0.3	U	
MW-2A	B	5	U	2.9	U	2.9	U	1.5	U	0.088	U	0.088	U	0.088	U		0.088	I	0.74	I	0.4	U	0.4	U	0.4	U	0.3	U	
MW-3A	B	5	U	2.9	U	2.9	U	1.5	U	0.088	U	0.088	U	0.088	U		0.200	I	0.41	I	0.4	U	0.4	U	0.4	U	0.3	U	
MW-4A	B	5	U	2.9	U	2.9	U	1.5	U	0.088	U	0.1	I	0.088	U		0.088	U	0.4	U	0.4	U	0.4	U	0.4	U	0.3	U	
MW-5A	B	5	U	2.9	U	2.9	U	1.5	U	0.088	U	0.088	U	0.097	I		0.200	I	0.4	U	0.4	U	0.4	U	0.4	U	0.3	U	
MW-6A	B	5	U	2.9	U	2.9	U	1.5	U	0.088	U	0.088	U	0.280	I		NA		NA		NA		0.4	U	0.4	U	0.3	U	
MW-7A	D	5	U	2.9	U	2.9	U	1.5	U	0.088	U	0.092	I	0.088	U		0.088	U	0.4	U	0.4	U	0.7	I	0.4	U	0.3	U	
MW-8A	D	5	U	2.9	U	2.9	U	1.5	U	0.088	U	0.088	U	0.088	U		0.180	U	0.4	U	0.4	U	0.4	U	0.4	U	0.3	U	
MW-9A	D	5	U	2.9	U	2.9	U	1.5	U	0.088	U	0.088	U	0.088	U		0.180	U	0.4	U	0.4	U	0.4	I	0.4	U	0.3	U	
MW-10A	D	5	U	2.9	U	2.9	U	1.5	U	0.088	U	0.088	U	0.150	I		0.180	U	0.4	U	0.4	U	0.4	U	0.4	U	0.3	U	
MW-11A	D	5	U	2.9	U	2.9	U	1.5	U	0.088	U	0.088	U	0.088	U		0.088	U	0.4	U	0.4	U	0.4	U	0.4	U	0.3	U	
MW-12A	D	5	U	2.9	U	2.9	U	1.5	U	0.088	U	0.088	U	0.470	I		0.088	U	0.4	U	0.4	U	0.4	U	0.4	U	0.3	U	
MW-13A	D	5	U	2.9	U	2.9	U	1.5	U	0.088	U	0.26		0.088	U		0.088	U	0.4	U	0.4	U	0.4	U	0.4	U	0.3	U	
MW-14A	D	5	U	2.9	U	2.9	U	1.5	U	0.088	U	0.13		0.170	I		0.088	U	0.4	U	0.4	U	0.4	U	0.4	U	0.3	U	
MW-15A	D	5	U	2.9	U	2.9	U	1.5	U	0.088	U	0.088	U	0.099	I		MW-14A & MW-15A were abandoned in July 2007												
MW-16A	D	MW- 16A through MW-23A were constructed as part of the Phases 2 and 3 development in Sep 2007														0.088	U	0.310	I	0.48	I	0.4	U	0.4	U	0.5	U	0.3	U
MW-17A	D															0.088	U	0.210	I	0.40	U	0.4	U	NA		NA		NA	
MW-18A	D															0.14	I	0.088	U	0.40	U	0.4	U	NA		NA		NA	
MW-19A	D															0.3	I	0.140	I	0.40	U	0.4	U	0.4	I	0.4	U	0.3	U
MW-20A	D															0.088	U	0.510	I	0.53	I	0.4	U	NA		NA		NA	
MW-21A	D															0.088	U	0.380	I	0.56	I	0.4	U	NA		NA		NA	
MW-22A	B															0.088	U	0.130	I	0.4	U	0.4	U	NA		NA		0.3	U
MW-23A	B															0.088	U	0.100	I	0.4	U	0.4	U	0.4	U	0.4	U	0.3	U
MW-1B	B	5	U	2.9	U	2.9	U	1.5	U	0.088	U	0.088	U	0.088	U	MW-1A through MW-15A are monitoring wells constructed as part of the Phase 1 development	NA		NA		NA		0.4	U	NA		0.3	U	
MW-2B	B	5	U	2.9	U	2.9	U	1.5	U	0.088	U	0.49	I	0.088	U		0.088	U	0.4	U	0.4	U	0.4	U	NA		0.3	U	
MW-3B	B	5	U	2.9	U	2.9	U	1.5	U	0.088	U	0.088	U	0.088	U		0.089	I	0.40	U	0.4	U	0.5	I	NA		0.3	U	
MW-4B	B	5	U	2.9	U	2.9	U	1.5	U	0.088	U	0.17	I	0.140	I		0.088	U	0.48	I	0.4	U	0.4	U	NA		0.3	U	
MW-5B	B	5	U	2.9	U	2.9	U	1.5	U	0.088	U	0.088	U	0.088	U		0.088	U	0.4	U	0.4	U	0.4	U	NA		0.3	U	
MW-6B	B	5	U	2.9	U	2.9	U	1.5	U	0.088	U	0.14	I	0.170	I		NA		NA		NA		0.4	U	NA		0.3	U	
MW-7B	D	5	U	2.9	U	2.9	U	1.5	U	0.088	U	0.088	U	0.088	U		0.088	U	0.4	U	0.4	U	0.4	U	NA		0.3	I	
MW-8B	D	5	U	2.9	U	2.9	U	1.5	U	0.088	U	0.088	U	0.240	I		0.180	U	0.4	U	0.4	U	0.4	U	NA		0.3	U	
MW-9B	D	5	U	2.9	U	2.9	U	1.5	U	0.088	U	0.088	U	0.088	U		0.180	U	0.4	U	0.4	U	0.4	U	NA		0.3	U	
MW-10B	D	5	U	2.9	U	2.9	U	1.5	U	0.088	U	0.088	U	0.088	U		0.180	U	0.4	U	0.4	U	0.4	U	NA		0.3	U	
MW-11B	D	5	U	2.9	U	2.9	U	1.5	U	0.088	U	0.088	U	0.088	U		0.088	U	0.4	U	0.4	U	0.4	U	NA		0.3	U	
MW-12B	D	5	U	2.9	U	2.9	U	1.5	U	0.088	U	0.088	U	0.270	I		0.088	U	0.4	U	0.4	U	0.4	U	NA		0.3	U	
MW-13B	D	5	U	2.9	U	2.9	U	1.5	U	0.088	U	0.13		0.088	U		0.088	U	0.4	U	0.4	U	0.4	U	NA		0.3	U	
MW-14B	D	5	U	2.9	U	2.9	U	1.5	U	0.088	U	0.088	U	0.088	U		MW-14B & MW-15B were abandoned in July 2007												
MW-15B	D	5	U	2.9	U	2.9	U	1.5	U	0.088	U	0.088	U	0.088	U		0.088	U	0.250	I	1.1	I	0.4	U	0.4	U	0.3	U	
MW-16B	D	MW- 16B through MW-23B were constructed as part of the Phases 2 and 3 development in Sep 2007														0.088	U	0.180	U	0.4	U	0.4	U	0.4	U	NA		0.3	U
MW-17B	D															0.099	I	0.088	U	0.4	U	0.4	U	0.4	U	NA		0.3	U
MW-18B	D															0.088	U	0.150	I	0.4	U	0.4	U	0.4	U	NA		0.3	U
MW-19B	D															0.1	U	0.250	I	0.4	U	0.4	U	0.4	U	NA		0.3	U
MW-20B	D															0.3	I	0.350	I	0.4	U	0.4	U	0.4	U	NA		0.3	U
MW-21B	D															0.3	I	0.088	U	0.4	U	0.4	U	0.4	U	NA		0.3	U
MW-22B	B															0.088	U	0.088	U	0.4	U	0.4	U	0.4	U	NA		0.3	U
MW-23B	B															0.088	U	0.088	U	0.4	U	0.4	U	0.4	U	NA		0.3	U
MW-1C	B	5	U	2.9	U	2.9	U	1.5	U	0.088	U	0.088	U	0.088	U	MW-1A through MW-15A are monitoring wells constructed as part of the Phase 1 development	NA		NA		NA		NA		0.4	U	NA		
MW-2C	B	5	U	2.9	U	2.9	U	1.5	U	0.088	U	0.088	U	0.088	U		0.088	U	0.4	U	0.4	U	NA		0.4	U	NA		
MW-3C	B	5	U	2.9	U	2.9	U	1.5	U	0.088	U	0.088	U	0.088	U		0.088	U	0.4	U	0.4	U	NA		0.4	U	NA		
MW-4C	B	5	U	2.9	U	2.9	U	1.5	U	0.088	U	0.088	U	0.088	U		0.088	U	0.4	U	0.4	U	NA		0.4	U	NA		
MW-5C	B	5	U	2.9	U	2.9	U	1.5	U	0.088	U	0.088	U	0.088	U		0.088	U	0.4	U	0.4	U	NA		0.4	U	NA		
MW-6C	B	5	U	2.9	U	2.9	U	1.5	U	0.088	U	0.088	U	0.110	I		NA		NA		NA		NA		0.4	U	NA		
MW-7C	D	5	U	2.9	U	2.9	U	1.5	U	0.088	U	0.088	U	0.088	U		0.088	U	0.4	U	0.4	U	NA		0.4	U	NA		
MW-8C	D	5	U	2.9	U	2.9	U	1.5	U	0.088	U	0.088	U	0.088	U		0.180	U	0.4	U	0.4	U	NA		0.4	U	NA		
MW-9C	D	5	U	2.9	U	2.9	U	1.5	U	0.088	U	0.088	U	0.088	U		0.180	U	0.4	U	0.4	U							

Well ID	Type	PH 1 Baseline Jan-04 (µg/L)	1st Event Jul-04 (µg/L)	2nd Event Jan-05 (µg/L)	3rd Event Jul-05 (µg/L)	4th Event Feb-06 (µg/L)	5th Event Jul-06 (µg/L)	6th Event Feb-07 (µg/L)	PH 2&3 Baseline Sep-07 (µg/L)	7th Event Nov-07 (µg/L)	8th Event May-08 (µg/L)	9th Event Nov-08 (µg/L)	10th Event May-09 (µg/L)	11th Event Nov-09 (µg/L)	12th Event May-10 (µg/L)								
MW-1A	B	100	U	18		11		15.1	I	8.9		5.8		8.3									
MW-2A	B	100	U	15		12		12.8	I	12		9.7		9.7									
MW-3A	B	100	U	18		19		14.9	I	14		26		16									
MW-4A	B	100	U	11		8.3	I	21.2	I	14		13		12									
MW-5A	B	100	U	7	I	5.4	I	5	I	6.1		8.1		5.9									
MW-6A	B	100	U	3.2	I	2.7	I	3.7	I	3.6		3.5		3.9									
MW-7A	D	100	U	1500		28		6.4	I	16		8.5		18									
MW-8A	D	100	U	16		17		15.8	I	12		10		36									
MW-9A	D	100	U	9.6	I	4	I	5.4	I	4.7		11		4.7									
MW-10A	D	100	U	11		4.2	I	7.4	I	2.7		3.2		3.3									
MW-11A	D	100	U	9.2	I	11		9.9	I	8		8.3		9.2									
MW-12A	D	100	U	14		13		12.7	I	9		10		7.8									
MW-13A	D	100	U	14		11		9.6	I	8.4		8.4		8.8									
MW-14A	D	100	U	15		7.1	I	5.7	I	7.3		4.9		7.8									
MW-15A	D	100	U	11		10		10.9	I	11		12		8.2									
MW-16A	D	MW- 16A through MW-23A were constructed as part of the Phases 2 and 3 development in Sep 2007								16		24		19		14		14.3		12.3		12.6	
MW-17A	D									9		15		15		22		NA		NA		NA	
MW-18A	D									10		8		5.7		7.4		NA		NA		NA	
MW-19A	D									33		26		46		20		33		29.4		38.0	
MW-20A	D									9.9		13		18		9.9	I	NA		NA		NA	
MW-21A	D									6.9		50		23		26		NA		NA		NA	
MW-22A	B									20		17		9.8		14		NA		NA		NA	
MW-23A	B									10		10		15		10		54.8		24		16.4	
MW-1B	B	100	U	99		18		16.9	I	9.9		6.3		6.1									
MW-2B	B	100	U	71		13		45	I	41		14		11									
MW-3B	B	100	U	350		25		43.9	I	47		27		17									
MW-4B	B	100	U	35		12		16.7	I	11		15		9									
MW-5B	B	100	U	27		19		12.6	I	12		12		10									
MW-6B	B	100	U	200		86		57.6	I	27		30		29									
MW-7B	D	100	U	720		62	I	46.5	I	45		34		36									
MW-8B	D	100	U	290		34		133	I	78		90		50									
MW-9B	D	100	U	180		75		21.9	I	26		29		26									
MW-10B	D	100	U	35		10		12	I	13		11		16									
MW-11B	D	100	U	310		19	I	25.4	I	21		25		19									
MW-12B	D	100	U	310		87		18.2	I	36		36		42									
MW-13B	D	100	U	59		9.7		7.2	I	16		19		12									
MW-14B	D	100	U	83		21		7.1	I	20		7.4		13									
MW-15B	D	100	U	70		8.2		8.7	I	7.9		5.1		3.9									
MW-16B	D	MW- 16B through MW-23B were constructed as part of the Phases 2 and 3 development in Sep 2007								75		121		213		55		31.8		33.7		23	
MW-17B	D									161		94		53		29		NA		NA		NA	
MW-18B	D									72		15		15		11		NA		NA		NA	
MW-19B	D									62		38		69		27		37.1		NA		33.8	
MW-20B	D									292		234		75		119		NA		NA		NA	
MW-21B	D									268		92		35		23		NA		NA		NA	
MW-22B	B									700		13		38		41		NA		NA		NA	
MW-23B	B									16		18		13		9.2		10.5		NA		9.4	
MW-1C	B	270		47		37		55.1	I	32		23		19									
MW-2C	B	160		70		33		25.5	I	19		22		17									
MW-3C	B	130		100		24		22.5	I	16		17		16									
MW-4C	B	310		620		71		6.7	I	38		60		18									
MW-5C	B	110		47		35		28.4	I	26		24		24									
MW-6C	B	310		97		60		36.9	I	28		42		33									
MW-7C	D	210		800		77		35.5	I	38		35		36									
MW-8C	D	100	U	29		18		18.6	I	15		16		17									
MW-9C	D	100	U	26		17		17.4	I	15		16		16									
MW-10C	D	250		48		27		25.8	I	41		26		21									
MW-11C	D	100	U	15		11		10.2	I	8.9		8.1		9.4									
MW-12C	D	100	U	41		32		34.9	I	21		19		18									
MW-13C	D	100	U	28		23		19.2	I	20		19		18									
MW-14C	D	130		110		37		32.6	I	32		39		28									
MW-15C	D	100	U	12		7.8	I	8.6	I	11		13		13									
MW-16C	D	MW- 16C through MW-23C were constructed as part of the Phases 2 and 3 development in Sep 2007								34		33		23		20		31.8		23.6		17.9	
MW-17C	D									57		25		20		19		NA		NA		NA	
MW-18C	D									381		109		77		41		NA		NA		NA	
MW-19C	D									248		267		85		65		NA		NA		NA	
MW-20C	D									104		112		155		87		NA		NA		NA	
MW-21C	D									172		87		79		61		NA		NA		NA	
MW-22C	B									29		22		17		18		NA		NA		NA	
MW-23C	B									130		15		8.2		10		NA		9.9		NA	

Notes:
µg/L=micrograms per liter
U = Not detected at value represented
I = Value is estimated to be between method detection limit and practical quantitation limit.
NA = Not Analyzed
Well type: (B) Background well (D) Detection well
Constituent detections are shown in shaded cells (green color)
Constituent detections exceeding the GCTL are shown in shaded cells (tan color)
MW-14A, 14B, 14C and MW-15A, 15B, 15C were decommissioned on 10 July 2007

Well ID	Type	PH 1 Baseline Jan-04 (µg/L)		1st Event Jul-04 (µg/L)		2nd Event Jan-05 (µg/L)		3rd Event Jul-05 (µg/L)		4th Event Feb-06 (µg/L)		5th Event Jul-06 (µg/L)		6th Event Feb-07 (µg/L)		PH 2&3 Baseline Sep-07 (µg/L)		7th Event Nov-07 (µg/L)		8th Event May-08 (µg/L)		9th Event Nov-08 (µg/L)		10th Event May-09 (µg/L)		11th Event Nov-09 (µg/L)		12th Event May-10 (µg/L)	
MW-1A	B	1.0	U	0.71	U	0.71	U	0.3	U	0.12	U	0.07	U	0.07	U	MW-1A through MW-15A are monitoring wells constructed as part of the Phase 1 development	NA		NA		NA		0.12	U	0.12	U	0.17	U	
MW-2A	B	1.0	U	0.71	U	0.71	U	0.3	U	0.12	U	0.07	U	0.07	U		0.12	U	0.2	U			0.14	I	0.12	U	0.17	U	
MW-3A	B	1.0	U	0.71	U	0.71	U	0.3	U	0.12	U	0.07	U	0.07	U		0.12	U	0.2	U			0.12	U	0.12	U	0.17	U	
MW-4A	B	1.0	U	0.71	U	0.71	U	0.3	U	0.12	U	0.07	U	0.07	U		0.12	U	0.2	U			0.12	U	0.12	U	0.17	U	
MW-5A	B	1.0	U	0.71	U	0.71	U	0.3	U	0.12	U	0.07	U	0.07	U		0.12	U	0.2	U			0.12	U	0.12	U	0.17	U	
MW-6A	B	1.0	U	0.71	U	0.71	U	0.3	U	0.12	U	0.07	U	0.07	U		NA		NA		NA		0.32	I	0.12	U	0.17	U	
MW-7A	D	1.0	U	0.73	I	0.71	U	0.3	U	0.12	U	0.07	U	0.07	U		0.12	U	0.2	U			0.81		0.12	U	0.17	U	
MW-8A	D	1.0	U	0.71	U	0.71	U	0.3	U	0.12	U	0.07	U	0.07	U		0.73	I	0.2	U			0.12	U	0.12	U	0.17	U	
MW-9A	D	1.0	U	0.71	U	0.71	U	0.3	U	0.12	U	0.07	U	0.07	U		0.76	I	0.2	U			0.12	U	0.12	U	0.17	U	
MW-10A	D	1.0	U	0.71	U	0.71	U	0.3	U	0.12	U	0.12	I	0.07	I		0.76	I	0.2	U			0.23	I	0.15		0.17	U	
MW-11A	D	1.0	U	0.71	U	0.71	U	0.3	U	0.12	U	0.07	U	0.07	U		0.12	U	0.2	U			0.12	U	0.12	U	0.17	U	
MW-12A	D	1.0	U	0.71	U	0.71	U	0.3	U	0.12	U	0.07	U	0.26	I		0.12	U	0.2	U			0.12	U	0.12	U	0.17	U	
MW-13A	D	1.0	U	0.71	U	0.71	U	0.3	U	0.12	U	0.07	U	0.07	U		0.12	U	0.2	U			0.12	U	0.12	U	0.17	U	
MW-14A	D	1.0	U	0.71	U	0.71	U	0.3	U	0.12	U	0.07	U	0.07	U		0.12	U	0.2	U			0.12	U	0.12	U	0.17	U	
MW-15A	D	1.0	U	0.71	U	0.71	U	0.3	U	0.12	U	0.094	i	0.07	U		MW-14A & MW-15A were abandoned in July 2007												
MW-16A	D	MW- 16A through MW-23A were constructed as part of the Phases 2 and 3 development in Sep 2007														0.12	U	0.14	I	0.2	U			0.13	I	0.12	U	0.17	U
MW-17A	D															0.12	U	0.12	U	0.2	U			NA		NA		NA	
MW-18A	D															0.12	U	0.12	U	0.2	U			NA		NA		NA	
MW-19A	D															0.23	I	0.12	U	0.26	I			0.38	I	0.18	U	0.17	U
MW-20A	D															0.12	U	0.12	U	0.25	I			NA		NA		NA	
MW-21A	D															0.12	U	0.72	I	0.37	I			NA		NA		NA	
MW-22A	B															0.12	U	0.12	U	0.2	U			NA		NA		NA	
MW-23A	B															0.12	U	0.12	U	0.2	U			0.12	U	0.12	U	0.17	U
MW-1B	B	1.0	U	0.71	U	0.71	U	0.3	U	0.12	U	0.07	U	0.07	U	MW-1A through MW-15A are monitoring wells constructed as part of the Phase 1 development	NA		NA		NA		0.12	U	NA		0.17	U	
MW-2B	B	1.0	U	0.71	U	0.71	U	0.3	U	0.23	I	0.21	I	0.07	U		0.12	U	0.2	U			0.12	U	NA		0.17	U	
MW-3B	B	1.0	U	0.71	U	0.71	U	0.3	U	0.12	U	0.07	U	0.07	U		0.12	U	0.2	U			0.12	U	NA		0.17	U	
MW-4B	B	1.0	U	0.71	U	0.71	U	0.3	U	0.12	U	0.07	U	0.07	U		0.12	U	0.2	U			0.12	U	NA		0.17	U	
MW-5B	B	1.0	U	0.71	U	0.71	U	0.3	U	0.12	U	0.07	U	0.07	U		0.12	U	0.2	U			0.12	U	NA		0.17	U	
MW-6B	B	1.0	U	0.71	U	0.71	U	0.3	U	0.12	U	0.096	I	0.10	I		NA		NA		NA		0.66		NA		0.17	U	
MW-7B	D	1.0	U	1.1	I	0.71	U	0.3	U	0.12	U	0.07	U	0.07	U		0.12	U	0.2	U			0.51		NA		0.17	U	
MW-8B	D	1.0	U	0.71	U	0.71	U	0.3	U	0.12	U	0.07	U	0.14	I		0.78	I	0.2	U			0.12	U	NA		0.17	U	
MW-9B	D	1.0	U	0.71	U	0.71	U	0.3	U	0.12	U	0.07	U	0.07	U		0.76	I	0.2	U			0.12	U	NA		0.17	U	
MW-10B	D	1.0	U	0.71	U	0.71	U	0.3	U	0.12	U	0.07	U	0.07	U		0.71	I	0.2	U			0.12	U	NA		0.17	U	
MW-11B	D	1.0	U	0.71	U	0.71	U	0.3	U	0.12	U	0.11		0.07	U		0.12	U	0.2	U			0.12	U	NA		0.17	U	
MW-12B	D	1.0	U	0.71	U	0.71	U	0.3	U	0.12	U	0.12		0.12	I		0.12	U	0.2	U			0.12	U	NA		0.17	U	
MW-13B	D	1.0	U	0.71	U	0.71	U	0.3	U	0.12	U	0.07	U	0.07	U		0.12	U	0.2	U			0.12	U	NA		0.17	U	
MW-14B	D	1.0	U	0.97	I	0.71	U	0.3	U	0.12	U	0.07	U	0.07	U		MW-14B & MW-15B were abandoned in July 2007												
MW-15B	D	1.0	U	0.71	U	0.71	U	0.3	U	0.12	U	0.07	U	0.07	U		0.12	U	0.91	I	0.24	I			0.12	U	0.12	U	0.17
MW-16B	D	MW- 16B through MW-23B were constructed as part of the Phases 2 and 3 development in Sep 2007														0.21	I	0.77	I	0.2	U			NA		NA		NA	
MW-17B	D															0.19	I	0.12	U	0.2	U			NA		NA		NA	
MW-18B	D															0.19	I	0.12	U	0.2	U			NA		NA		NA	
MW-19B	D															0.19	I	0.12	U	0.2	U			0.12	U	0.12	U	0.17	U
MW-20B	D															0.61		0.21	I	0.27	I			NA		NA		NA	
MW-21B	D															0.9		0.19	I	0.2	U			NA		NA		NA	
MW-22B	B															2.5		0.12	U	0.3	I			NA		NA		NA	
MW-23B	B															0.12	U	0.12	U	0.25	I			0.12	U	NA		0.17	U
MW-1C	B	1.0	U	0.71	U	0.71	U	0.3	U	0.12	U	0.07	U	0.07	U	MW-1A through MW-15A are monitoring wells constructed as part of the Phase 1 development	NA		NA		NA		NA		0.12	U	NA		
MW-2C	B	1.0	U	0.71	U	0.71	U	0.3	U	0.12	U	0.07	U	0.07	U		0.12	U	0.2	U			NA		0.12	U	NA		
MW-3C	B	1.0	U	0.71	U	0.71	U	0.3	U	0.12	U	0.07	U	0.07	U		0.12	U	0.2	U			NA		0.12	U	NA		
MW-4C	B	1.0	U	0.8	I	0.71	U	0.3	U	0.12	U	0.13	I	0.07	U		0.12	U	0.2	U			NA		0.12	U	NA		
MW-5C	B	1.0	U	0.71	U	0.71	U	0.3	U	0.12	U	0.07	U	0.07	U		0.12	U	0.2	U			NA		0.12	U	NA		
MW-6C	B	1.0	U	0.71	U	0.71	U	0.3	U	0.12	U	0.07	U	0.07	U		NA		NA		NA		NA		0.12	U	NA		
MW-7C	D	1.0	U	0.71	U	0.71	U	0.3	U	0.12	U	0.07	U	0.09	I		0.12	U	0.2	U			NA		0.12	U	NA		
MW-8C	D	1.0	U	0.71	U	0.71	U	0.3	U	0.12	U	0.07	U	0.07	U		0.73	I	0.2	U			NA		0.12	U	NA		
MW-9C	D	1.0	U	0.71	U	0.71	U	0.3	U	0.12	U	0.07	U	0.07	U		0.8	I	0.2	U			NA		0.12	U	NA		
MW-10C	D	1.0	U	0.71	U	0.71	U	0.3	U	0.12	U	0.07	U	0.07	U		0.72	I	0.2	U			NA		0.12	U	NA		
MW-11C	D	1.0	U</																										

Well ID	Type	PH 1 Baseline Jan-04 (mg/L)		1st Event Jul-04 (mg/L)		2nd Event Jan-05 (mg/L)		3rd Event Jul-05 (mg/L)		4th Event Feb-06 (mg/L)		5th Event Jul-06 (mg/L)		6th Event Feb-07 (mg/L)		PH 2&3 Baseline Sep-07 (mg/L)	7th Event Nov-07 (mg/L)		8th Event May-08 (mg/L)		9th Event Nov-08 (µg/L)		10th Event May-09 (µg/L)		11th Event Nov-09 (µg/L)		12th Event May-10 (µg/L)			
MW-1A	B	17.0		23.0		16.0		27.2		20.0		18		22.0		MW-1A through MW-15A are monitoring wells constructed as part of the Phase 1 development	NA		NA		NA		28		31		30.1			
MW-2A	B	30.0		25.0		22.0		20.1		24.0		28		31.0			27		40		30		44		46		31.6			
MW-3A	B	35.0		41.0		33.0		6.5		35.0		52		46.0			5		89		54		50		69		54.4			
MW-4A	B	6.7		18.0		9.3		21.4		18.0		11		15.0			18		31		46		53		55		63.0			
MW-5A	B	12.0		18.0		20.0		13.0		16.0		21		27.0			23		31		43		66		45		30.0			
MW-6A	B	12.0		12.0		9.8		11.5		15.0		14		16.0			NA		NA		NA		54		62		51.0			
MW-7A	D	22.0		12.0		7.8		18.4		38.0		22		21.0			24		26		27		26		31		26.0			
MW-8A	D	23.0		29.0		25.0		13.5		16.0		15		35.0			52		44		64		56		63		76.0			
MW-9A	D	8.8		15.0		14.0		11.4		20.0		15		17.0			19		21		22		25		30		29.0			
MW-10A	D	5.3		15.0		15.0		12.2		15.0		14		16.0			13		13		18		13		8.2		7.9			
MW-11A	D	34.0		29.0		19.0		9.3		13.0		17		17.0			10		11		17		17		79		89.0			
MW-12A	D	9.6		13.0		16.0		11.8		11.0		11		8.1			10		17		9		13		13		16.0			
MW-13A	D	44.0		25.0		20.0		14.9		13.0		16		17.0			17		16		11		10		9.8		11.0			
MW-14A	D	29.0		27.0		19.0		10.7		18.0		30		13.0			MW-14A & MW-15A were abandoned in July 2007													
MW-15A	D	15.0		15.0		17.0		22.3		26.0		19		22.0		15			16		11		6		5.8		2.2		1.9	
MW-16A	D	MW- 16A through MW-23A were constructed as part of the Phases 2 and 3 development in Sep 2007														25		15		12		10		NA		NA		NA		
MW-17A	D															12		12		12		NA		NA		NA		NA		
MW-18A	D															63		15		19		12		NA		NA		NA		
MW-19A	D															31		25		31		6		NA		NA		NA		
MW-20A	D															26		42		31		12		NA		NA		NA		
MW-21A	D															45		36		34		14		NA		NA		NA		
MW-22A	B															16		19		41		29		110		41		23.3		
MW-23A	B																													
MW-1B	B	7.1		7.1		3.1		4.2		8.3		5.3		6.1		MW-1A through MW-15A are monitoring wells constructed as part of the Phase 1 development	NA		NA		NA		7.8		NA		7.4			
MW-2B	B	8.3		7.3		5.2		5.0		18.0		9.2		9.3			8		11		11		13		NA		NA		12.4	
MW-3B	B	14.0		14.0		5.2		9.4		13.0		15		16.0			15		23		23		26		NA		NA		18.3	
MW-4B	B	28.0		30.0		24.0		11.7		20.0		22		14.0			10		89		100		49		NA		NA		54.0	
MW-5B	B	10.0		7.3		8.6		9.1		13.0		12		9.2			9		7.8		14		12		NA		NA		32.0	
MW-6B	B	5.8		5.9		5.1		3.7		7.0		7.7		8.1			NA		NA		NA		8.7		NA		NA		9.8	
MW-7B	D	9.9		12.0		8.1		8.6		14.0		17		16.0			19		21		21		23		NA		NA		30.0	
MW-8B	D	7.8		10.0		9.9		4.7		9.3		7.7		8.7			8		9.1		9.6		10		NA		NA		10.0	
MW-9B	D	12.0		12.0		10.0		8.9		13.0		11		12.0			14		15		17		19		NA		NA		33.0	
MW-10B	D	11.0		9.8		10.0		9.8		16.0		12		16.0			15		15		11		13		NA		NA		42.0	
MW-11B	D	28.0		26.0		19.0		18.4		24.0		23		24.0			24		25		15		18		NA		NA		14.0	
MW-12B	D	7.6		8.9		5.5		4.9		11.0		12		12.0			16		17		18		21		NA		NA		21.0	
MW-13B	D	11.0		13.0		8.3		7.7		13.0		12		11.0			13		12		13		13		NA		NA		12.0	
MW-14B	D	7.7		8.6		5.2		4.7		8.0		7.9		6.9			MW-14B & MW-15B were abandoned in July 2007													
MW-15B	D	6.9		9.0		4.7		4.5		8.1		7.4		7.8		14			14		15		15		14		13			
MW-16B	D	MW- 16B through MW-23B were constructed as part of the Phases 2 and 3 development in Sep 2007														20		19		229		29		NA		NA		NA		
MW-17B	D															28		23		27		23		NA		NA		NA		
MW-18B	D															31		25		31		27		NA		NA		NA		
MW-19B	D															30.0		25		33		29		NA		NA		NA		
MW-20B	D															29.0		23		28		27		NA		NA		NA		
MW-21B	D															14.0		11		13		13		NA		NA		NA		
MW-22B	B															17		17		15		17		18		NA		16.6		
MW-23B	B																													
MW-1C	B	6.1		10		3.9		3	U	6.2		5.7		5.8		MW-1A through MW-15A are monitoring wells constructed as part of the Phase 1 development	NA		NA		NA		NA		7.6		NA			
MW-2C	B	6.6		6.4		3.1		1		7.0		6.9		6.4			7		6.9		7		NA		7.5		NA			
MW-3C	B	7.8		9.8		5.2		4.9		8.0		7.8		7.3			8		7.6		7.6		NA		8.3		NA			
MW-4C	B	9.5		9.8		6.7		6.2		9.6		9.9		9.9			9		9.0		9.4		NA		13		NA			
MW-5C	B	13		12		15		12.1		16.0		15		15.0			16		16		15		NA		16		NA			
MW-6C	B	6		5.4		5.1		3.5		6.3		7		5.8			NA		NA		NA		NA		6.3		NA			
MW-7C	D	7.5		10		5.5		5.1		8.1		8.7		7.0			8		7.4		7.6		NA		8.8		NA			
MW-8C	D	7.1		7.5		8.9		4.6		7.9		6.7		7.1			8		7.2		7.5		NA		8.5		NA			
MW-9C	D	7.9		9.4		5.5		5		8.2		6.8		7.3			8		8		9		NA		13		NA			
MW-10C	D	7.5		8		5.5		4.7		7.9		6.9		6.9			8		7.3		7.5		NA		8.2		NA			
MW-11C	D	19		20		16		15.1		18.0		0.45		16.0			18		18		17		NA		18		NA			
MW-12C	D	8.3		8.4		6		5.3		9.0		8		8.1			8		8.3		8.2		NA		9.1		NA			
MW-13C	D	11		12		8.8		7.8		12.0		11		10.0			11		11		12		NA		13		NA			
MW-14C	D	10		11		7.2		6.7		11.0		9.3		9.1			MW-14C & MW-15C were abandoned in July 2007													
MW-15C	D	8		9.0		4.7		5.1		8.3		7.4		7.7		20			20		22		21		21		21			
MW-16C	D	MW- 16C through MW-23C were constructed as part of the Phases 2 and 3 development in Sep 2007														19		18		19		18		NA		NA		NA		
MW-17C	D															20		19		21		21		NA		NA		NA		
MW-18C	D															17		17		19		18		NA		NA		NA		
MW-19C	D															20		19		21		21		NA		NA		NA		
MW-20C	D															18		18		21		20		NA		NA		NA		
MW-21C	D															9		8		7.6		9.1		NA		NA		NA		
MW-22C	B															9.9		8		8.8		8.6		NA		8.8		NA		
MW-23C	B																													

Well ID	Type	PH 1 Baseline Jan-04 (µg/L)	1st Event Jul-04 (µg/L)	2nd Event Jan-05 (µg/L)	3rd Event Jul-05 (µg/L)	4th Event Feb-06 (µg/L)	5th Event Jul-06 (µg/L)	6th Event Feb-07 (µg/L)	PH 2&3 Baseline Sep-07 (µg/L)	7th Event Nov-07 (µg/L)	8th Event May-08 (µg/L)	9th Event Nov-08 (µg/L)	10th Event May-09 (µg/L)	11th Event Nov-09 (µg/L)	12th Event May-10 (µg/L)	
MW-1A	B	1 U	0.9 U	0.9 U	0.5 U	0.12 U	0.12 U	0.12 U	MW-1A through MW-15A are monitoring wells constructed as part of the Phase 1 development	0.12 U	0.12 U	NA	0.1 U	0.1 U	0.35 U	
MW-2A	B	1 U	0.9 U	0.9 U	0.5 U	0.12 U	0.12 U	0.12 U		0.12 U	0.12 U	0.12 U	0.1 U	0.1 U	0.35 U	
MW-3A	B	1 U	0.9 U	0.9 U	0.5 U	0.12 U	0.12 U	0.12 U		0.12 U	0.12 U	0.12 U	0.3 I	0.1 U	0.35 U	
MW-4A	B	1 U	0.9 U	0.9 U	0.5 U	0.12 U	0.12 U	0.12 U		0.12 U	0.12 U	0.12 U	0.1 U	0.1 U	0.35 U	
MW-5A	B	1 U	0.9 U	0.9 U	0.5 U	0.12 U	0.12 U	0.12 U		0.12 U	0.12 U	0.12 U	0.1 U	0.1 U	1.8 U	
MW-6A	B	1 U	0.9 U	0.9 U	0.5 U	0.12 U	0.12 U	0.12 U		0.12 U	0.12 U	0.12 U	NA	0.1 U	0.1 U	0.35 U
MW-7A	D	1 U	0.9 U	0.9 U	0.5 U	0.12 U	0.12 U	0.12 U		0.12 U	0.12 U	0.12 U	0.1 U	0.1 U	0.35 U	
MW-8A	D	3	0.9 U	0.9 U	0.5 U	0.12 U	0.12 U	0.12 U		0.12 U	0.12 U	0.12 U	0.1 U	0.1 U	0.35 U	
MW-9A	D	1 U	0.9 U	0.9 U	0.5 U	0.12 U	0.12 U	0.12 U		0.12 U	0.12 U	0.12 U	0.1 U	0.1 U	0.35 U	
MW-10A	D	1 U	0.9 U	0.9 U	0.5 U	0.12 U	0.12 U	0.12 U		0.12 U	0.12 U	0.12 U	0.1 U	0.1 U	0.35 U	
MW-11A	D	1 U	0.9 U	0.9 U	0.5 U	0.12 U	0.12 U	0.12 U		0.12 U	0.12 U	0.90 U	0.12 U	0.1 U	0.1 U	0.35 U
MW-12A	D	1 U	0.9 U	0.9 U	0.5 U	0.12 U	0.12 U	0.12 U		0.12 U	0.12 U	0.12 U	0.1 U	0.1 U	0.35 U	
MW-13A	D	1 U	0.9 U	0.9 U	0.5 U	0.12 U	0.12 U	0.12 U		0.12 U	0.12 U	0.12 U	0.1 U	0.1 U	0.35 U	
MW-14A	D	1 U	0.9 U	0.9 U	0.5 U	0.12 U	0.12 U	0.12 U		0.12 U	0.12 U	0.12 U	0.1 U	0.1 U	0.35 U	
MW-15A	D	1 U	0.9 U	0.9 U	0.5 U	0.12 U	0.12 U	0.12 U		MW-14A & MW-15A were abandoned in July 2007						
MW-16A	D	MW- 16A through MW-23A were constructed as part of the Phases 2 and 3 development in Sep 2007								0.12 U	0.12 U	0.12 U	0.12 U	0.1 U	0.1 U	0.35 U
MW-17A	D									0.12 U	0.12 U	0.12 U	0.12 U	NA	NA	NA
MW-18A	D									0.12 U	0.12 U	0.12 U	0.12 U	NA	NA	NA
MW-19A	D									0.12 U	0.12 U	0.12 U	0.12 U	0.1 U	0.1 U	1.8 U
MW-20A	D									0.12 U	0.12 U	0.12 U	0.12 U	NA	NA	NA
MW-21A	D									0.12 U	0.12 U	0.12 U	0.12 U	NA	NA	NA
MW-22A	B									0.12 U	0.12 U	0.12 U	0.12 U	NA	NA	0.35 U
MW-23A	B									0.12 U	0.12 U	0.12 U	0.12 U	0.1 U	0.1 U	0.4 U
MW-1B	B	1 U	0.9 U	0.9 U	0.5 U	0.12 U	0.12 U	0.12 U	MW-1A through MW-15A are monitoring wells constructed as part of the Phase 1 development	0.12 U	0.12 U	NA	0.1 U	NA		
MW-2B	B	1 U	0.9 U	0.9 U	0.5 U	0.12 U	0.12 U	0.12 U		0.12 U	0.12 U	0.12 U	0.1 U	NA	0.35 U	
MW-3B	B	1 U	0.9 U	0.9 U	0.5 U	0.12 U	0.12 U	0.12 U		0.12 U	0.12 U	0.12 U	0.1 U	NA	0.35 U	
MW-4B	B	1 U	0.9 U	0.9 U	0.5 U	0.12 U	0.12 U	0.12 U		0.12 U	0.12 U	0.12 U	0.1 U	NA	0.35 U	
MW-5B	B	1 U	0.9 U	0.9 U	0.5 U	0.12 U	0.12 U	0.12 U		0.12 U	0.12 U	0.12 U	0.1 U	NA	0.35 U	
MW-6B	B	1 U	0.9 U	0.9 U	0.5 U	0.12 U	0.12 U	0.12 U		0.12 U	0.12 U	0.12 U	0.1 U	NA	0.35 U	
MW-7B	D	1 U	0.9 U	0.9 U	0.5 U	0.12 U	0.12 U	0.12 U		0.12 U	0.12 U	0.12 U	0.1 U	NA	0.35 U	
MW-8B	D	1 U	0.9 U	0.9 U	0.5 U	0.12 U	0.12 U	0.12 U		0.12 U	0.12 U	0.12 U	0.1 U	NA	0.35 U	
MW-9B	D	1 U	0.9 U	0.9 U	0.5 U	0.12 U	0.12 U	0.12 U		0.12 U	0.12 U	0.12 U	0.1 U	NA	0.35 U	
MW-10B	D	1 U	0.9 U	0.9 U	0.5 U	0.12 U	0.12 U	0.12 U		0.12 U	0.12 U	0.12 U	0.1 U	NA	0.35 U	
MW-11B	D	1 U	0.9 U	0.9 U	0.5 U	0.12 U	0.12 U	0.12 U		0.12 U	0.12 U	0.12 U	0.1 U	NA	0.35 U	
MW-12B	D	1 U	0.9 U	0.9 U	0.5 U	0.12 U	0.12 U	0.12 U		0.12 U	0.12 U	0.12 U	0.1 U	NA	0.35 U	
MW-13B	D	1 U	0.9 U	0.9 U	0.5 U	0.12 U	0.12 U	0.12 U		0.12 U	0.12 U	0.12 U	0.1 U	NA	0.35 U	
MW-14B	D	1 U	0.9 U	0.9 U	0.5 U	0.12 U	0.12 U	0.12 U		0.12 U	MW-14B & MW-15B were abandoned in July 2007					
MW-15B	D	1 U	0.9 U	0.9 U	0.5 U	0.12 U	0.12 U	0.12 U		0.12 U	0.12 U	0.12 U	0.1 U	U	0.35 U	
MW-16B	D	MW- 16B through MW-23B were constructed as part of the Phases 2 and 3 development in Sep 2007								0.12 U	0.12 U	0.12 U	0.12 U	0.1 U	0.1 U	0.35 U
MW-17B	D									0.12 U	0.12 U	0.12 U	0.12 U	NA	NA	NA
MW-18B	D									0.12 U	0.12 U	0.12 U	0.12 U	NA	NA	NA
MW-19B	D									0.12 U	0.12 U	0.12 U	0.12 U	0.1 U	0.1 U	0.35 U
MW-20B	D									0.12 U	0.12 U	0.12 U	0.12 U	NA	NA	NA
MW-21B	D									0.12 U	0.12 U	0.12 U	0.12 U	NA	NA	NA
MW-22B	B									0.12 U	0.12 U	0.12 U	0.12 U	NA	NA	NA
MW-23B	B									0.12 U	0.12 U	0.12 U	0.12 U	0.1 U	U	0.4 U
MW-1C	B	1 U	0.9 U	0.9 U	0.5 U	0.12 U	0.12 U	0.12 U	MW-1A through MW-15A are monitoring wells constructed as part of the Phase 1 development	0.12 U	0.12 U	NA	NA	0.1 U	NA	
MW-2C	B	1 U	0.9 U	0.9 U	0.5 U	0.12 U	0.12 U	0.12 U		0.12 U	0.12 U	0.12 U	NA	0.1 U	NA	
MW-3C	B	1 U	0.9 U	0.9 U	0.5 U	0.12 U	0.12 U	0.12 U		0.12 U	0.12 U	0.12 U	NA	0.1 U	NA	
MW-4C	B	1 U	0.9 U	0.9 U	0.5 U	0.12 U	0.12 U	0.12 U		0.12 U	0.12 U	0.12 U	NA	0.1 U	NA	
MW-5C	B	1 U	0.9 U	0.9 U	0.5 U	0.12 U	0.12 U	0.12 U		0.12 U	0.12 U	0.12 U	NA	0.1 U	NA	
MW-6C	B	1 U	0.9 U	0.9 U	0.5 U	0.12 U	0.12 U	0.12 U		0.12 U	0.12 U	NA	NA	0.1 U	NA	
MW-7C	D	1 U	0.9 U	0.9 U	0.5 U	0.12 U	0.12 U	0.12 U		0.12 U	0.12 U	0.12 U	NA	0.1 U	NA	
MW-8C	D	1 U	0.9 U	0.9 U	0.5 U	0.12 U	0.12 U	0.12 U		0.12 U	0.12 U	0.12 U	NA	0.1 U	NA	
MW-9C	D	1 U	0.9 U	0.9 U	0.5 U	0.12 U	0.12 U	0.12 U		0.12 U	0.12 U	0.12 U	NA	0.1 U	NA	
MW-10C	D	1 U	0.9 U	0.9 U	0.5 U	0.12 U	0.12 U	0.12 U		0.12 U	0.12 U	0.12 U	NA	0.1 U	NA	
MW-11C	D	1 U	0.9 U	0.9 U	0.5 U	0.12 U	0.12 U	0.12 U		0.12 U	0.12 U	0.12 U	NA	0.1 U	NA	
MW-12C	D	1 U	0.9 U	0.9 U	0.5 U	0.12 U	0.12 U	0.12 U		0.12 U	0.12 U	0.12 U	NA	0.1 U	NA	
MW-13C	D	1 U	0.9 U	0.9 U	0.5 U	0.12 U	0.12 U	0.12 U		0.12 U	0.12 U	0.12 U	NA	0.1 U	NA	
MW-14C	D	1 U	0.9 U	0.9 U	0.5 U	0.12 U	0.12 U	0.12 U		MW-14C & MW-15C were abandoned in July 2007						
MW-15C	D	1 U	0.9 U	0.9 U	0.5 U	0.12 U	0.12 U	0.12 U		0.12 U	0.12 U	0.12 U	NA	0.1 U	0.35 U	
MW-16C	D	MW- 16C through MW-23C were constructed as part of the Phases 2 and 3 development in Sep 2007								0.12 U	0.12 U	0.12 U	0.12 U	0.1 U	0.1 U	0.35 U
MW-17C	D									0.12 U	0.12 U	0.12 U	0.12 U	NA	NA	NA
MW-18C	D									0.12 U	0.12 U	0.12 U	0.12 U	NA	NA	NA
MW-19C	D									0.12 U	0.12 U	0.12 U	0.12 U	NA	NA	NA
MW-20C	D									0.12 U	0.12 U	0.12 U	0.12 U	NA	NA	NA
MW-21C	D									0.12 U	0.12 U	0.12 U	0.12 U	NA	NA	NA
MW-22C	B									0.12 U	0.12 U	0.12 U	0.12 U	NA	NA	NA
MW-23C	B									0.12 U	0.12 U	0.12 U	0.12 U	0.1 U	U	NA

Notes:
µg/L=micrograms per liter
U = Not detected at value represented
I = Value is estimated to be between method detection limit and practical quantitation limit.
NA = Not Analyzed
Well type: (B) Background well (D) Detection well
Constituent detections are shown in shaded cells (green color)
Constituent detections exceeding the GCTL are shown in shaded cells (tan color)
MW-14A, 14B, 14C and MW-15A, 15B, 15C were decommissioned on 10 July 2007

Well ID	Type	PH 1 Baseline Jan-04 (µg/L)	1st Event Jul-04 (µg/L)	2nd Event Jan-05 (µg/L)	3rd Event Jul-05 (µg/L)	4th Event Feb-06 (µg/L)	5th Event Jul-06 (µg/L)	6th Event Feb-07 (µg/L)	PH 2&3 Baseline Sep-07 (µg/L)	7th Event Nov-07 (µg/L)	8th Event May-08 (µg/L)	9th Event Nov-08 (µg/L)	10th Event May-09 (µg/L)	11th Event Nov-09 (µg/L)	12th Event May-10 (µg/L)										
MW-1A	B	50 U	1.4 U	1.4 U	0.5 U	0.39 I	0.23 I	0.37 I	MW-1A through MW-15A are monitoring wells constructed as part of the Phase 1 development	NA		NA		NA		0.3 I	0.4 U	0.7 I							
MW-2A	B	50 U	1.4 U	1.4 U	0.5 U	1.2	1.6	1.8		1.4		3.6		1.9		4.1	5.3 U	2.6 I							
MW-3A	B	50 U	1.4 U	1.4 U	0.5 U	0.68 I	1	0.78 I		0.8 I	I	0.6 I	I	0.8 I	I	0.6 I	0.2 U	0.9 I							
MW-4A	B	50 U	1.4 U	1.4 U	0.5 U	0.46 I	0.39 I	0.43 I		0.4 I	I	0.3 I	I	0.8 I	I	0.2 U	0.4 U	0.3 I							
MW-5A	B	50 U	1.4 U	1.4 U	0.5 U	0.28 I	0.3 I	0.21 I		0.1 I	I	0.2 U	U	0.2 U	U	0.2 U	0.2 U								
MW-6A	B	50 U	1.4 U	1.4 U	0.5 U	0.2 I	0.12 I	0.24 I		NA		NA		NA		2.8	0.9 U	0.7							
MW-7A	D	50 U	7.7 I	1.4 U	0.5 U	1.1	0.62 I	0.53 I		1.2		1.1		1.1		2.6	1.8	1.5							
MW-8A	D	50 U	1.9 I	1.4 U	0.67 I	0.77 I	0.8 I	1.5		1.6 I	I	1.1		1.8		1.5		2.0 U							
MW-9A	D	50 U	2 I	1.4 U	0.5 U	0.37 I	0.89 I	0.47 I		0.9 I	I	0.9 I	I	0.3 I	I	0.8 I	0.2 U	0.3 U							
MW-10A	D	50 U	1.7 I	1.4 U	0.5 U	0.16 I	0.47 I	0.23 I		0.4 I	I	0.6 I	I	0.2 U	I	0.3 I	0.2 U	0.2 U							
MW-11A	D	50 U	2.5 I	2.1 I	1.3 I	0.84 I	0.99	1.1		1		1	I	1.1		0.8 I	1.5 U	1.2							
MW-12A	D	50 U	1.7 I	1.4 U	0.5 U	0.89 I	1.2	0.71 I		1.1		1.0 I	I	0.8 I	I	0.9 I	0.9 U	1.1 I							
MW-13A	D	50 U	1.4 U	1.4 U	0.79 I	1	1	0.88 I		1	I														
MW-14A	D	50 U	1.4 U	1.9 I	0.5 U	0.33 I	1.1	0.41 I																	
MW-15A	D	50 U	1.4 U	1.4 U	0.5 U	0.098 I	0.074 I	0.12 I																	
MW-16A	D	MW- 16A through MW-23A were constructed as part of the Phases 2 and 3 development in Sep 2007								0.23 I															
MW-17A	D									0.41 I	I														
MW-18A	D									0.12 I	I														
MW-19A	D									3.5															
MW-20A	D									0.23 I	I														
MW-21A	D									0.13 I	I														
MW-22A	B									0.27 I	I														
MW-23A	B									0.2 I	I														
MW-1B	B	50 U	1.8 I	1.4 U	0.5 U	0.17 I	0.14 I	0.11 I	MW-1A through MW-15A are monitoring wells constructed as part of the Phase 1 development	NA		NA		NA		0.2 U		0.2 U							
MW-2B	B	50 U	1.4 U	1.4 U	0.5 U	0.43 I	0.36 I	0.27 I		0.2 I	I	0.3 I	I	0.3 I	I	NA		0.4							
MW-3B	B	50 U	3.6 I	1.4 U	0.5 U	0.28 I	0.18 I	0.23 I		0.3 I	I	0.3 I	I	0.4 I	I	0.5 I	NA	0.2 U							
MW-4B	B	50 U	1.4 U	1.4 U	0.5 U	0.17 I	0.1 I	0.13 I		0.1 I	I	1.6		1.2		0.9 I	NA	0.4 U							
MW-5B	B	50 U	1.4 U	1.4 U	0.5 U	0.16 I	0.17 I	0.14 I		0.1 I	I	0.2 U	U	0.2 U	U	NA	0.2 U								
MW-6B	B	50 U	1.4 U	1.4 U	0.5 U	0.26 I	0.2 I	0.28 I		NA		NA		1		NA	0.2 U								
MW-7B	D	50 U	4.3 I	1.4 U	0.5 U	0.31 I	0.17 I	0.23 I		0.2 I	I	0.2 I	I	0.2 I		NA	0.4 I								
MW-8B	D	50 U	1.6 I	1.4 U	1 I	0.25 I	0.35 I	0.26 I		0.2 I	I	0.2 U	U	0.2 U	U	NA	0.2 U								
MW-9B	D	50 U	1.4 U	1.4 U	0.73 I	0.18 I	0.22 I	0.24 I		0.2 I	I	0.2 I	I	0.2 I	I	NA	0.5 I								
MW-10B	D	50 U	1.4 U	1.4 U	0.5 U	0.28 I	0.31 I	0.34 I		0.3 I	I	0.3 I	I	0.2 I	I	NA	1.0 I								
MW-11B	D	50 U	2 I	1.4 U	0.5 U	0.17 I	0.18	0.12 I		0.1 I	I	0.2 U	U	0.2 U	U	NA	0.2 I								
MW-12B	D	50 U	2.4 I	1.4 U	0.5 U	0.14 I	0.2	0.24 I		0.1 I	I	0.2 U	U	0.2 U	I	NA	0.2 I								
MW-13B	D	50 U	1.4 U	1.4 U	0.5 U	0.23 I	0.18	0.18 I		0.2 I	I	0.2 U	U	0.2 U	U	NA	0.2 U								
MW-14B	D	50 U	2.1 I	1.4 U	0.5 U	0.31 I	0.28	0.31 I		MW-14B & MW-15B were abandoned in July 2007															
MW-15B	D	50 U	1.4 U	1.4 U	0.5 U	0.14 I	0.13 I	0.16 I		0.45 I	I	1.2 I	I	1.1		0.3 I	I	0.3 U	0.4 I						
MW-16B	D	MW- 16B through MW-23B were constructed as part of the Phases 2 and 3 development in Sep 2007								0.51 I	I	0.5 I	I	0.3 I	I	0.3 I	I	NA							
MW-17B	D									0.36 I	I	0.2 I	I	0.2 U	U	0.2 U	U	NA		NA		NA		NA	
MW-18B	D									0.27 I	I	0.2 I	I	0.3 I	I	0.2 U	U	0.2 U	U	NA		NA		0.2 I	
MW-19B	D									0.46 I	I	0.4 I	I	0.2 I	I	0.3 I	I	0.3 I	I	NA		NA		NA	
MW-20B	D									0.69 I	I	0.4 I	I	0.2 U	U	0.2 U	U	0.2 U	U	NA		NA		NA	
MW-21B	D									5.5	I	0.3 I	I	0.8 I	I	0.8 I	I	NA		NA		NA		NA	
MW-22B	B									0.46 I	I	0.3 I	I	0.2 I	I	0.2 I	I	0.2 I	I	0.2 I	I	NA		0.3 I	
MW-23B	B																								
MW-1C	B	50 U	1.4 U	1.4 U	0.5 U	0.07 I	0.041 U	0.041 U	MW-1A through MW-15A are monitoring wells constructed as part of the Phase 1 development	NA		NA		NA		0.2 I	I	NA							
MW-2C	B	50 U	1.4 U	1.4 U	0.5 U	0.041 U	0.041 U	0.041 U		0.0 U	U	0.2 U	U	0.2 U	U	NA		0.2 U							
MW-3C	B	50 U	1.4 U	1.4 U	0.5 U	0.041 U	0.041 U	0.045 I		0.0 U	U	0.2 U	U	0.3 I	I	NA		0.2 U							
MW-4C	B	50 U	7.3 I	1.4 U	0.5 U	0.29 I	0.53 I	0.12 I		0.0 I	I	0.2 U	U	0.2 U	U	NA		0.2 U							
MW-5C	B	50 U	1.4 U	1.4 U	0.5 U	0.041 U	0.041 U	0.041 U		0.1 I	I	0.2 I	I	0.2 U	U	NA		0.2 U							
MW-6C	B	50 U	1.4 U	1.4 U	0.5 U	0.048 I	0.041 U	0.073 I		NA		NA		NA		NA		0.2 U							
MW-7C	D	50 U	4.3 I	1.4 U	0.5 U	0.061 I	0.041 U	0.073 I		0.0 I	I	0.2 U	U	0.2 U	U	NA		0.2 U							
MW-8C	D	50 U	1.4 U	1.4 U	0.5 U	0.048 I	0.12 I	0.1 I		0.1 I	I	0.2 U	U	0.2 U	U	NA		0.2 U							
MW-9C	D	50 U	1.4 U	1.4 U	0.5 U	0.041 U	0.041 U	0.041 U		0.1 U	U	0.2 U	U	0.2 U	U	NA		0.2 U							
MW-10C	D	50 U	1.4 U	1.4 U	0.5 U	0.38 I	0.18 I	0.12 I		0.1 I	I	0.2 U	U	0.2 U	U	NA		0.2 I							
MW-11C	D	50 U	1.4 U	1.4 U	0.5 U	0.041 U	0.041 U	0.1 I		0.0 U	U	0.2 U	U	0.2 U	U	NA		0.2 U							
MW-12C	D	50 U	1.4 U	1.4 U	0.5 U	0.04 U	0.041 U	0.044 I		0.0 U	U	0.2 U	U	0.2 U	U	NA		0.2 U							
MW-13C	D	50 U	1.4 U	1.4 U	0.5 U	0.13 I	0.096	0.079 I		0.0 U	U	0.2 U	U	0.2 U	U	NA		0.2 U							
MW-14C	D	50 U	3.3 I	1.4 U	0.5 U	0.34 I	0.55	0.17 I		MW-14C & MW-15C were abandoned in July 2007															
MW-15C	D	50 U	1.8 I	1.4 U	0.5 U	0.041 U	0.041 U	0.041 U		0.13 I	I	0.1 I	I	0.2 U	U	0.2 U	U	0	I						
MW-16C	D	MW- 16C through MW-23C were constructed as part of the Phases 2 and 3 development in Sep 2007								0.78 I	I	0.2 I	I	0.2 U	U	0.2 U	U	NA	I	NA					
MW-17C	D									5.4															
MW-18C	D									1.1															
MW-19C	D									0.59 I	I														
MW-20C	D									0.72 I	I														
MW-21C	D									0.28 I	I														
MW-22C	B									1.0															
MW-23C	B																								

Notes:
µg/L=micrograms per liter
U = Not detected at value represented
I = Value is estimated to be between method detection limit and practical quantitation limit.
NA = Not Analyzed
Well type: (B) Background well (D) Detection well
Constituent detections are shown in shaded cells (green color)
Constituent detections exceeding the GCTL are shown in shaded cells (tan color)
MW-14A, 14B, 14C and MW-15A, 15B, 15C were decommissioned on 10 July 2007

Table B-8

Copper Concentrations in Monitoring Wells

Third Biennial Technical Report on Water Quality

J.E.D. Solid Waste Management Facility

Well ID	Type	PH 1 Baseline Jan-04 (µg/L)	1st Event Jul-04 (µg/L)	2nd Event Jan-05 (µg/L)	3rd Event Jul-05 (µg/L)	4th Event Feb-06 (µg/L)	5th Event Jul-06 (µg/L)	6th Event Feb-07 (µg/L)	PH 2&3 Baseline Sep-07 (µg/L)	7th Event Nov-07 (µg/L)	8th Event May-08 (µg/L)	9th Event Nov-08 (µg/L)	10th Event May-09 (µg/L)	11th Event Nov-09 (µg/L)	12th Event May-10 (µg/L)											
MW-1A	B	50 U	1.3 U	1.3 U	0.4 U	0.29 U	0.29 U	0.29 U	MW-1A through MW-15A are monitoring wells constructed as part of the Phase 1 development	NA		NA		0.6 I	0.3 U	0.5 U	U									
MW-2A	B	50 U	1.3 U	1.3 U	0.4 U	0.6 I	0.29 U	0.29 U		0.29 U	U	0.3 U	I	0.3 U	I	0.5 U	U									
MW-3A	B	50 U	1.3 U	1.3 U	0.4 U	0.38 I	0.89 I	0.29 U		0.29 I	I	0.45 I	I	0.3 U	I	0.5 U	U									
MW-4A	B	50 U	1.3 U	1.3 U	0.4 U	0.41 I	0.29 U	0.29 U		0.29 U	U	0.3 U	U	0.8 I	I	0.3 U	U	0.5 U	U							
MW-5A	B	50 U	1.6 I	11 I	0.4 U	1.3 I	0.75 I	1.1 I		0.59 I	I	0.74 I	I	1.3 I	I	0.6 I	0.8 U	1.1 U	U							
MW-6A	B	50 U	1.3 U	1.3 U	0.4 U	0.29 U	0.29 U	0.29 U		NA		NA		NA		0.3 U	0.3 U	0.5 U	U							
MW-7A	D	50 U	18 I	1.3 U	0.4 U	0.29 U	0.29 U	0.29 U		0.29 U	U	0.36 I	I	0.3 U	U	0.3 U	0.3 I	0.5 U	U							
MW-8A	D	50 U	1.3 U	1.3 U	0.4 U	0.29 U	0.29 U	0.29 U		0.85 I	I	0.3 U	U	0.3 U	U	0.3 U	3.9 I	0.5 U	U							
MW-9A	D	50 U	1.3 U	1.3 U	0.4 U	0.56 I	0.29 U	2.1		0.66 I	I	0.3 U	U	0.3 U	U	0.3 U	0.4 U	0.5 U	U							
MW-10A	D	50 U	1.3 U	1.3 U	0.4 U	1.9 I	0.47 I	2.9		0.89 I	I	0.3 U	U	2.5		0.3 U	1.1	0.7	U							
MW-11A	D	50 U	1.3 U	1.3 U	0.4 U	0.29 U	0.39	0.29 U		0.29 U	U	0.3 U	U	0.4 I	I	0.3 U	0.3 U	0.5 U	U							
MW-12A	D	50 U	1.3 U	1.3 U	0.4 U	0.29 U	0.37	0.4 I		0.29 U	U	0.3 U	U	0.3 U	U	0.3 U	0.3 U	0.5 U	U							
MW-13A	D	50 U	1.3 U	1.3 U	0.4 U	0.29 U	0.29 U	0.37 I		0.29 U	U	0.3 U	U	0.3 U	U	0.3 U	0.3 U	0.5 U	U							
MW-14A	D	50 U	1.3 U	1.3 U	0.4 U	2	0.83	0.57 I		0.29 U	U	0.3 U	U	0.3 U	U	0.3 U	0.3 U	0.5 U	U							
MW-15A	D	50 U	1.3 U	1.3 U	0.4 U	0.29 U	0.29 U	0.29 U		MW-14A & MW-15A were abandoned in July 2007																
MW-16A	D	MW- 16A through MW-23A were constructed as part of the Phases 2 and 3 development in Sep 2007							0.29 U	I	0.79 I	I	0.64 I	I	0.4 I	I	0.6 I	I	0.3 U	U	0.5 U	U				
MW-17A	D								0.57 I	I	0.29 U	U	0.3 U	U	0.3 U	U	NA		NA		NA		NA		NA	
MW-18A	D								1.1 I	I	0.52 I	I	0.41 I	I	1.1 I	I	NA		NA		NA		NA		NA	
MW-19A	D								5.0		0.29 U	U	1.2 I	I	1.8 I	I	6.3		0.3 U	U	1.1 I	I	1.1 I		1.1 I	
MW-20A	D								0.29 U	U	0.71 I	I	0.31 I	I	1 I	I	NA		NA		NA		NA		NA	
MW-21A	D								0.29 U	U	0.29 I	I	0.3 U	U	0.3 I	I	NA		NA		NA		NA		NA	
MW-22A	B								0.29 U	U	0.29 U	U	0.3 U	U	1.3 I	I	NA		NA		NA		NA		NA	
MW-23A	B								0.32 I	I	0.29 U	U	0.3 U	U	0.3 U	U	0.3 U	U	0.3 U	U	0.3 I	I	0.5		0.5	
MW-1B	B	50 U	1.3 U	1.3 U	0.4 U	0.34 I	0.29 U	0.29 U	MW-1A through MW-15A are monitoring wells constructed as part of the Phase 1 development	NA		NA		0.3 U	U	NA		0.5 U	U							
MW-2B	B	50 U	2 I	1.3 U	0.4 U	3.1	2.4	3.2		0.7 I	I	0.62 I	I	0.3 U	U	0.3 U	U	NA		0.5 U	U					
MW-3B	B	50 U	11 I	1.3 U	0.4 U	1.5 I	1 I	0.59 I		0.29 I	I	0.3 U	U	0.3 U	U	0.3 U	U	NA		0.5 U	U					
MW-4B	B	50 U	2.7 I	1.3 U	0.4 U	1 I	1.8 I	0.29 U		0.29 U	U	0.3 U	U	0.3 U	U	0.3 U	U	NA		0.5 U	U					
MW-5B	B	50 U	1.3 U	1.7 I	0.4 U	0.29 U	0.29 U	0.29 U		0.29 U	U	0.3 U	U	0.3 U	U	0.3 U	U	NA		0.5 U	U					
MW-6B	B	50 U	6.6 I	5.3 I	0.4 U	0.66 I	1 I	0.84 I		NA		NA		NA		0.9 I	I	NA		0.5 U	U					
MW-7B	D	50 U	18 I	1.6 I	0.4 U	1.3 I	3.9	0.48 I		0.5 I	I	0.3 U	U	0.3 U	U	1.3 I	I	NA		0.5 U	U					
MW-8B	D	50 U	12 I	1.3 U	1.9 I	1.4 I	2.3	1.1 I		1.4 I	I	0.52 I	I	0.8 I	I	0.6 I	I	NA		0.5 I	I					
MW-9B	D	50 U	13 I	1.9 I	0.4 U	0.6 I	1.4 I	1.5 I		1.6 I	I	0.42 I	I	0.3 U	U	0.4 I	I	NA		0.5 I	I					
MW-10B	D	50 U	2.8 I	1.6 I	0.4 U	0.29 U	0.29 U	0.29 U		0.58 U	U	0.3 U	U	0.3 U	U	0.3 U	U	NA		0.5 U	U					
MW-11B	D	50 U	7.3 I	1.3 U	0.4 U	0.82 I	1.6	0.29 U		2.8		0.3 U	U	0.4 I	I	0.3 U	U	NA		0.5 U	U					
MW-12B	D	50 U	23	6.5 I	0.4 U	0.66 I	7.2	3.9		2.9		0.3 U	U	0.4 I	I	0.3 U	U	NA		0.5 U	U					
MW-13B	D	50 U	5.4 I	1.3 U	0.4 U	2.6	4.1	5.6		6.7		0.5 I	I	0.7 I	I	0.8 I	I	NA		0.9 U	U					
MW-14B	D	50 U	5.3 I	1.7 I	0.4 U	0.86 I	0.53	0.49 I		MW-14B & MW-15B were abandoned in July 2007																
MW-15B	D	50 U	1.3 U	1.3 U	0.4 U	0.3 I	0.29 U	0.29 U		9.4		2.8 I	I	2.8		0.5 I	I	0.3 U	U	0.3 U	U	0.5 U	U			
MW-16B	D	MW- 16B through MW-23B were constructed as part of the Phases 2 and 3 development in Sep 2007							3.1		2.3 I	I	0.96 I	I	0.5 I	I	NA		NA		NA					
MW-17B	D								1.8 I	I	0.84 I	I	0.76 I	I	0.3 U	U	NA		NA		NA		NA		NA	
MW-18B	D								6.0		1.3 I	I	2.8		1 I	I	0.3 U	U	NA		NA		NA		1.3 U	U
MW-19B	D								5.4		2 I	I	1.3 I	I	1.6 I	I	NA		NA		NA		NA		NA	
MW-20B	D								15		4		1.8 I	I	1.4 I	I	NA		NA		NA		NA		NA	
MW-21B	D								22		0.29 U	U	1.8 I	I	2.1		NA		NA		NA		NA		NA	
MW-22B	B								0.38 I	I	0.29 U	U	0.3 U	U	1.3 I	I	0.3 U	U	0.3 U	U	NA		NA		0.5 U	U
MW-23B	B																0.38 I	I	0.29 U	U	0.3 U	U	1.3 I	I	0.3 U	U
MW-1C	B	50 U	1.3 U	3.2 I	0.4 U	0.29 U	0.68 i	0.29 U	MW-1A through MW-15A are monitoring wells constructed as part of the Phase 1 development	NA		NA		NA		0.3 U	U	NA								
MW-2C	B	50 U	2 I	1.3 U	0.4 U	0.31 I	4.3	0.29 U		0.29 U	U	3.4		0.3 U	U	NA		0.3 U	U	NA						
MW-3C	B	50 U	3.4 I	1.3 U	0.4 U	0.37 I	0.29 U	0.29 U		0.29 U	U	0.3 U	U	9		NA		0.3 U	U	NA						
MW-4C	B	50 U	7.2 I	1.3 U	0.4 U	0.69 I	2	0.3 I		0.29 U	U	0.3 U	U	0.3 I	I	NA		1.6		NA						
MW-5C	B	50 U	1.3 U	1.3 U	0.4 U	0.34 I	0.29 U	0.52 I		0.36 I	I	0.3 U	U	0.9 I	I	NA		0.3 U	U	NA						
MW-6C	B	50 U	1.3 U	2.6 I	0.4 U	1.1 I	0.29 U	0.33 I		NA		NA		NA		NA		0.3 I	I	NA						
MW-7C	D	50 U	11 I	1.4 I	0.4 U	0.63 I	0.39 I	0.29 I		0.32 I	I	0.3 U	U	0.3 U	U	NA		0.3 U	U	NA						
MW-8C	D	50 U	1.3 U	1.3 U	0.4 U	0.29 U	0.29 U	0.35 I		0.58 U	U	0.3 U	U	0.3 U	U	NA		0.3 U	U	NA						
MW-9C	D	50 U	1.8 I	1.4 I	0.4 U	0.29 I	0.4 I	0.29 U		0.58 U	U	0.3 U	U	0.3 U	U	NA		0.3 U	U	NA						
MW-10C	D	50 U	2.3 I	1.3 U	0.4 U	0.56 I	8.5	1 I		0.79 I	I	0.3 U	U	0.3 U	U	NA		0.3 U	U	NA						
MW-11C	D	50 U	1.3 U	1.3 U	0.4 U	55	0.37	0.3 I		0.29 U	U	0.3 U	U	0.3 U	U	NA		0.3 U	U	NA						
MW-12C	D	50 U	1.6 I	1.3 U	0.4 U	0.29 U	0.29 U	0.29 U		0.29 U	U	0.3 U	U	0.3 U	U	NA		0.3 U	U	NA						
MW-13C	D	50 U	1.8 I	1.3 U	0.4 U	0.32 I	0.39	0.29 U		0.29 U	U	0.3 U	U	0.3 U	U	NA		0.3 U	U	NA						
MW-14C	D	50 U	1.3 I	1.3 U	0.4 U	0.58 I	0.54	0.43 I		MW-14C & MW-15C were abandoned in July 2007																
MW-15C	D	50 U	1.3 U	1.3 U	0.4 U	0.29 U	0.45 i	0.29 U		0.78 I	I	0.99 I	I	0.3 U	U	0.3 U	U	0.3 U	U	0.5 U	U					
MW-16C	D	MW- 16C through MW-23C were constructed as part of the Phases 2 and 3 development in Sep 2007							1.3 I	I	2 I	I	0.3 U	U	0.3 U	U	NA		NA		NA					
MW-17C	D								12		0.8 I	I	0.61 I	I	0.3 U	U	NA		NA		NA		NA		NA	
MW-18C	D								2.4		11		0.7 I	I	0.7 I	I	NA		NA		0.4 U	U	NA		NA	
MW-19C	D								3.3		1.6 I	I	1 I	I	0.5 I	I	NA		NA		NA		NA		NA	
MW-20C	D								2.2		1.8 I	I	0.59 I	I	0.5 I	I	NA		NA		NA		NA		NA	
MW-21C	D								0.48 I	I	0.29 U	U	0.59 I	I	0.3 U	U	NA		NA		NA		NA		NA	
MW-22C	B								3.0		0.48 I	I	0.3 U	U	0.3 U	U	NA		NA		0.3 U	U	NA		NA	
MW-23C	B																3.0		0.48 I	I	0.3 U	U	0.3 U	U	NA	

Notes:

µg/L=micrograms per liter

U = Not detected at value represented

I = Value is estimated to be between method detection limit and practical quantitation limit.

NA = Not Analyzed

Well type: (B) Background well (D) Detection well

Constituent detections are shown in shaded cells (green color)

Constituent detections exceeding the GCTL are shown in shaded cells (tan color)

MW-14A, 14B, 14C and MW-15A, 15B, 15C were decommissioned on 10 July 2007

Table B-9
Cis-1, 2-Dichloroethene Concentrations in Monitoring Wells
Third Biennial Technical Report on Water Quality
J.E.D. Solid Waste Management Facility

Well ID	Type	PH 1 Baseline Jan-04 (µg/L)		1st Event Jul-04 (µg/L)		2nd Event Jan-05 (µg/L)		3rd Event Jul-05 (µg/L)		4th Event Feb-06 (µg/L)		5th Event Jul-06 (µg/L)		6th Event Feb-07 (µg/L)		PH 2&3 Baseline Sep-07 (µg/L)		7th Event Nov-07 (µg/L)		8th Event May-08 (µg/L)		9th Event Nov-08 (µg/L)		10th Event May-09 (µg/L)		11th Event Nov-09 (µg/L)		12th Event May-10 (µg/L)			
MW-1A	B	NA		NA		NA		NA		NA		0.12	U	0.12	U	MW-1A through MW-15A are monitoring wells constructed as part of the Phase 1 development	NA		NA		NA		0.12	U	0.12	U	0.73	I			
MW-2A	B	NA		NA		NA		NA		NA		0.12	U	0.12	U		0.12	U	0.2	U	0.12	U	0.12	U	0.12	U	0.083	U			
MW-3A	B	NA		NA		NA		NA		NA		0.12	U	0.12	U		0.12	U	0.2	U	0.12	U	0.12	U	0.12	U	0.083	U			
MW-4A	B	NA		NA		NA		NA		NA		0.12	U	0.12	U		0.12	U	0.2	U	0.12	U	0.12	U	0.12	U	0.083	U			
MW-5A	B	NA		NA		NA		NA		NA		0.12	U	0.12	U		0.12	U	0.2	U	0.12	U	0.12	U	0.12	U	0.083	U			
MW-6A	B	NA		NA		NA		NA		NA		0.12	U	0.12	U		NA		NA		NA		0.21	I	0.12	U	0.083	U			
MW-7A	D	NA		NA		NA		NA		NA		0.12	U	0.12	U		0.12	U	0.2	U	0.12	U	0.12	U	0.12	U	0.083	U			
MW-8A	D	NA		NA		NA		NA		NA		0.12	U	0.12	U		0.12	U	0.2	U	0.12	U	0.12	U	0.12	U	0.083	U			
MW-9A	D	NA		NA		NA		NA		NA		0.12	U	1.40			0.12	U	0.88	I	2.3		1.2		1.1		1.1				
MW-10A	D	NA		NA		NA		NA		NA		0.12	U	0.12	U		0.12	U	0.2	U	0.94	I	0.74	I	0.12	U	1.1				
MW-11A	D	NA		NA		NA		NA		NA		0.45	J	0.12	U		0.42	I	1	I	0.59	I	0.12	U	0.12	U	1.3				
MW-12A	D	NA		NA		NA		NA		NA		0.36	J	0.12	U		0.12	U	0.2	U	0.12	U	0.12	U	0.12	U	0.6	I			
MW-13A	D	NA		NA		NA		NA		NA		0.12	U	0.12	U		0.12	U	0.2	U	0.12	U	0.54	I	0.32	U	0.3	I			
MW-14A	D	NA		NA		NA		NA		NA		0.12	U	0.12	U		MW-14A & MW-15A were abandoned in July 2007														
MW-15A	D	NA		NA		NA		NA		NA		0.12	U	0.12	U																
MW-16A	D	MW- 16A through MW-23A were constructed as part of the Phases 2 and 3 development in Sep 2007														0.12	U	0.12	U	0.2	U	0.12	U	0.12	U	0.12	U	0.12	U	0.083	U
MW-17A	D															0.12	U	0.12	U	0.2	U	0.12	U	NA		NA		NA			
MW-18A	D															0.12	U	0.12	U	0.2	U	0.12	U	NA		NA		NA			
MW-19A	D															0.12	U	0.12	U	0.2	U	0.12	U	0.12	U	0.12	U	0.083	U		
MW-20A	D															0.12	U	0.12	U	0.2	U	0.12	U	NA		NA		NA			
MW-21A	D															0.12	U	0.12	U	0.2	U	0.12	U	NA		NA		NA			
MW-22A	B															0.12	U	0.12	U	0.2	U	0.12	U	NA		NA		NA			
MW-23A	B															0.12	U	0.12	U	0.2	U			0.12	U	0.12	U	0.083	U		
MW-1B	B	NA		NA		NA		NA		NA		0.12	U	0.12	U	MW-1A through MW-15A are monitoring wells constructed as part of the Phase 1 development	0.12	U	0.2	U	NA		0.12	U	NA		0.083	U			
MW-2B	B	NA		NA		NA		NA		NA		0.12	U	0.12	U		0.12	U	0.2	U	0.12	U	0.12	U	NA		0.083	U			
MW-3B	B	NA		NA		NA		NA		NA		0.12	U	0.12	U		0.12	U	0.2	U	0.12	U	0.12	U	NA		0.083	U			
MW-4B	B	NA		NA		NA		NA		NA		0.12	U	0.12	U		0.12	U	0.2	U	0.12	U	0.12	U	NA		0.083	U			
MW-5B	B	NA		NA		NA		NA		NA		0.12	U	0.12	U		0.12	U	0.2	U	0.12	U	0.12	U	NA		0.083	U			
MW-6B	B	NA		NA		NA		NA		NA		0.12	U	0.12	U		0.12	U	0.2	U	NA		0.12	U	NA		0.083	U			
MW-7B	D	NA		NA		NA		NA		NA		0.12	U	0.12	U		0.12	U	0.2	U	0.12	U	0.12	U	NA		0.083	U			
MW-8B	D	NA		NA		NA		NA		NA		0.12	U	0.12	U		0.12	U	0.2	U	0.12	U	0.12	U	NA		0.083	U			
MW-9B	D	NA		NA		NA		NA		NA		0.12	U	0.12	U		0.12	U	0.2	U	0.12	U	0.12	U	NA		0.083	U			
MW-10B	D	NA		NA		NA		NA		NA		0.12	U	0.12	U		0.12	U	0.2	U	0.12	U	0.12	U	NA		0.083	U			
MW-11B	D	NA		NA		NA		NA		NA		0.51	J	0.12	U		0.12	U	0.2	U	0.12	U	0.12	U	NA		0.083	U			
MW-12B	D	NA		NA		NA		NA		NA		0.34	J	0.12	U		0.12	U	0.2	U	0.12	U	0.12	U	NA		0.083	U			
MW-13B	D	NA		NA		NA		NA		NA		0.12	U	0.12	U		0.12	U	0.2	U	0.12	U	0.12	U	NA		0.083	U			
MW-14B	D	NA		NA		NA		NA		NA		0.12	U	0.12	U		MW-14B & MW-15B were abandoned in July 2007														
MW-15B	D	NA		NA		NA		NA		NA		0.12	U	0.12	U																
MW-16B	D	MW- 16B through MW-23B were constructed as part of the Phases 2 and 3 development in Sep 2007														0.12	U	0.12	U	0.2	U	0.12	U	0.12	U	0.12	U	0.12	U	0.083	U
MW-17B	D															0.12	U	0.12	U	0.2	U	0.12	U	NA		NA		NA			
MW-18B	D															0.12	U	0.12	U	0.2	U	0.12	U	NA		NA		NA			
MW-19B	D															0.12	U	0.12	U	0.2	U	0.12	U	0.12	U	0.12	U	0.083	U		
MW-20B	D															0.12	U	0.12	U	0.2	U	0.12	U	NA		NA		NA			
MW-21B	D															0.12	U	0.12	U	0.2	U	0.12	U	NA		NA		NA			
MW-22B	B															0.12	U	0.12	U	0.2	U	0.12	U	NA		NA		NA			
MW-23B	B															0.12	U	0.12	U	0.2	U			0.12	U	0.12	U	0.083	U		
MW-1C	B	NA		NA		NA		NA		NA		0.12	U	0.12	U	MW-1A through MW-15A are monitoring wells constructed as part of the Phase 1 development	0.12	U	0.2	U	NA		NA		0.12	U	NA				
MW-2C	B	NA		NA		NA		NA		NA		0.12	U	0.12	U		0.12	U	0.2	U	0.12	U	NA		0.12	U	NA				
MW-3C	B	NA		NA		NA		NA		NA		0.12	U	0.12	U		0.12	U	0.2	U	0.12	U	NA		0.12	U	NA				
MW-4C	B	NA		NA		NA		NA		NA		0.12	U	0.12	U		0.12	U	0.2	U	0.12	U	NA		0.12	U	NA				
MW-5C	B	NA		NA		NA		NA		NA		0.12	U	0.12	U		0.12	U	0.2	U	0.12	U	NA		0.12	U	NA				
MW-6C	B	NA		NA		NA		NA		NA		0.12	U	0.12	U		0.12	U	0.2	U	NA		NA		0.12	U	NA				
MW-7C	D	NA		NA		NA		NA		NA		0.12	U	0.12	U		0.12	U	0.2	U	0.12	U	NA		0.12	U	NA				
MW-8C	D	NA		NA		NA		NA		NA		0.12	U	0.12	U		0.12	U	0.2	U	0.12	U	NA		0.12	U	NA				
MW-9C	D	NA		NA		NA		NA		NA		0.12	U	0.12	U		0.12	U	0.2	U	0.12	U	NA		0.12	U	NA				
MW-10C	D	NA		NA		NA		NA		NA		0.12	U	0.12	U		0.12	U	0.2	U	0.12	U	NA		0.12	U	NA				
MW-11C	D	NA		NA		NA		NA		NA		0.46	J	0.12	U		0.12	U	0.2	U	0.12	U	NA		0.12	U	NA				
MW-12C	D	NA		NA		NA		NA		NA		0.35	J	0.12	U		0.12	U													
MW-13C	D	NA		NA		NA		NA		NA		0.12	U	0.12	U		0.12	U	0.2	U	0.12	U	NA		0.12	U	NA				
MW-14C	D	NA		NA		NA		NA		NA		0.12	U	0.12	U		MW-14C & MW-15C were abandoned in July 2007														
MW-15C	D	NA		NA		NA		NA		NA		0.12	U	0.12	U																
MW-16C	D	MW- 16C through MW-23C were constructed as part of the Phases 2 and 3 development in Sep 2007														0.12	U	0.12	U	0.2	U	0.12	U	0.12	U	0.12	U	0.12	U	0.083	U
MW-17C	D															0.12	U	0.12	U	0.2	U	0.12	U	NA		NA		NA			
MW-18C	D															0.12	U	0.12	U	0.2	U	0.12	U	NA		NA		NA			
MW-19C																															

Well ID	Type	PH 1 Baseline Jan-04 (µg/L)	1st Event Jul-04 (µg/L)	2nd Event Jan-05 (µg/L)	3rd Event Jul-05 (µg/L)	4th Event Feb-06 (µg/L)	5th Event Jul-06 (µg/L)	6th Event Feb-07 (µg/L)	PH 2&3 Baseline Sep-07 (µg/L)	7th Event Nov-07 (µg/L)	8th Event May-08 (µg/L)	9th Event Nov-08 (µg/L)	10th Event May-09 (µg/L)	11th Event Nov-09 (µg/L)	12th Event May-10 (µg/L)									
MW-1A	B	1 U	0.83 U	0.83 U	0.5 U	0.12 U	0.12 U	0.12 U	MW-1A through MW-15A are monitoring wells constructed as part of the Phase 1 development	NA		NA		NA		0.1 U	0.1 U	5.1						
MW-2A	B	1 U	0.83 U	0.83 U	0.5 U	0.12 U	0.12 U	0.12 U		0.12 U	0.12 U		0.1 U		0.1 U		0.1 U	0.52	U					
MW-3A	B	1 U	0.83 U	0.83 U	0.5 U	0.12 U	0.12 U	0.16 I		0.12 U	0.12 U	0.29 I	0.38	I	0.1 U		0.1 U	0.694	I					
MW-4A	B	1 U	1.8	0.83 U	0.55 I	0.12 U	0.12 U	0.12 U		0.12 U	0.12 U	0.2 U	0.19	I	0.13	I	0.19	0.52	U					
MW-5A	B	1 U	0.83 U	0.83 U	0.5 U	0.12 U	0.12 U	0.12 U		0.12 U	0.12 U	0.2 U	0.1 U		0.1 U		0.1 U	0.52	U					
MW-6A	B	1 U	0.83 U	0.83 U	0.5 U	0.12 U	0.12 U	0.12 U		0.12 U	0.12 U	NA	NA		0.1 U		0.1 U	0.52	U					
MW-7A	D	1 U	0.83 U	0.83 U	0.5 U	0.14 I	0.12 U	0.12 U		0.12 U	0.12 U	0.2 U	0.1 U		0.1 U		0.1 U	0.52	U					
MW-8A	D	1 U	0.83 U	0.83 U	0.5 U	0.12 U	0.12 U	0.12 U		0.12 U	0.12 U	0.2 U	0.1 U		0.1 U		0.1 U	0.52	U					
MW-9A	D	1 U	0.83 U	0.83 U	0.5 U	0.12 U	0.12 U	1.2		0.12 U	1.70	1.5	3.1		0.1 U		1.3 U	1.8						
MW-10A	D	1 U	0.83 U	0.83 U	0.5 U	0.36 I	0.12 U	0.12 U		0.12 U	0.12 U	0.2 U	0.1 U		0.1 U		0.1 U	0.52	U					
MW-11A	D	1 U	0.83 U	0.83 U	0.5 U	0.12 U	0.12 U	0.12 U		0.12 U	0.12 U	3.8	0.1 U		0.1 U		0.1 U	0.52	U					
MW-12A	D	1 U	0.83 U	0.83 U	0.5 U	0.12 U	0.12 U	0.12 U		0.12 U	0.12 U	0.2 U	0.1 U		0.1 U		0.1 U	0.52	U					
MW-13A	D	1 U	0.83 U	0.83 U	0.5 U	0.12 U	0.12 U	0.12 U		0.12 U	0.12 U	0.2 U	0.1 U		0.1 U		0.1 U	0.52	U					
MW-14A	D	1 U	0.83 U	0.83 U	0.5 U	0.12 U	0.12 U	0.12 U		0.12 U	0.12 U	0.2 U	0.1 U		0.1 U		0.1 U	0.52	U					
MW-15A	D	1 U	0.83 U	0.83 U	0.5 U	0.12 U	0.12 U	0.12 U		MW-14A & MW-15A were abandoned in July 2007														
MW-16A	D	MW- 16A through MW-23A were constructed as part of the Phases 2 and 3 development in Sep 2007								0.12 U		0.12 U		0.2 U		0.1 U	0.1 U	0.52	U					
MW-17A	D									0.12 U		0.12 U		0.2 U		0.1 U	NA		NA		NA		NA	
MW-18A	D									0.12 U		0.12 U		0.2 U		0.1 U	NA		NA		NA		NA	
MW-19A	D									0.12 U		0.12 U		0.2 U		0.1 U	0.1 U		0.1 U		0.1 U		0.52	U
MW-20A	D									0.12 U		0.12 U		0.2 U		0.1 U	NA		NA		NA		NA	
MW-21A	D									0.12 U		0.12 U		0.2 U		0.1 U	NA		NA		NA		NA	
MW-22A	B									0.12 U		0.12 U		0.2 U		0.1 U	NA		NA		NA		NA	U
MW-23A	B									0.12 U		0.12 U		0.2 U		0.1 U	0.1 U		0.1 U		0.1 U		0.52	U
MW-1B	B	1 U	0.83 U	0.83 U	0.5 U	0.12 U	0.12 U	0.12 U	MW-1A through MW-15A are monitoring wells constructed as part of the Phase 1 development	NA		NA		NA		0.1 U	NA		0.52 U					
MW-2B	B	1 U	0.83 U	0.83 U	0.5 U	0.12 U	0.12 U	0.12 U		0.12 U	0.12 U		0.1 U		0.1 U		0.1 U	NA		0.52 U				
MW-3B	B	1 U	0.83 U	0.83 U	0.5 U	0.12 U	0.12 U	0.12 U		0.12 U	0.12 U		0.1 U		0.1 U		0.1 U	NA		0.52 U				
MW-4B	B	1 U	0.83 U	0.83 U	0.5 U	0.12 U	0.12 U	0.12 U		0.12 U	0.12 U		0.1 U		0.1 U		0.1 U	NA		0.52 U				
MW-5B	B	1 U	0.83 U	0.83 U	0.5 U	0.12 U	0.12 U	0.12 U		0.12 U	0.12 U		0.1 U		0.1 U		0.1 U	NA		0.52 U				
MW-6B	B	1 U	0.83 U	0.83 U	0.5 U	0.12 U	0.12 U	0.12 U		0.12 U	0.12 U	NA	NA		0.1 U		0.1 U	NA		0.52 U				
MW-7B	D	1 U	0.83 U	0.83 U	0.5 U	0.12 U	0.18 I	0.12 U		0.12 U	0.18 I	0.26 I	0.1 U		0.1 U		0.1 U	NA		0.52 U				
MW-8B	D	1 U	0.83 U	0.83 U	0.5 U	0.12 U	0.12 U	0.12 U		0.12 U	0.12 U	0.2 U	0.1 U		0.1 U		0.1 U	NA		0.52 U				
MW-9B	D	1 U	0.83 U	0.83 U	0.5 U	0.12 U	0.33 I	0.12 U		0.12 U	0.33 I	0.2 U	0.1 U		0.1 U		0.1 U	NA		0.52 U				
MW-10B	D	1 U	0.83 U	0.83 U	0.5 U	0.12 U	0.12 U	0.12 U		0.12 U	0.12 U	0.2 U	0.1 U		0.1 U		0.1 U	NA		0.52 U				
MW-11B	D	1 U	0.83 U	0.83 U	0.5 U	0.12 U	0.12 U	0.12 U		0.12 U	0.12 U	0.2 U	0.1 U		0.1 U		0.1 U	NA		0.52 U				
MW-12B	D	1 U	0.83 U	0.83 U	0.5 U	0.12 U	0.12 U	0.12 U		0.12 U	0.12 U	0.2 U	0.1 U		0.1 U		0.1 U	NA		0.52 U				
MW-13B	D	1 U	0.83 U	0.83 U	0.5 U	0.12 U	0.12 U	0.12 U		0.12 U	0.12 U	0.2 U	0.1 U		0.1 U		0.1 U	NA		0.52 U				
MW-14B	D	1 U	0.83 U	0.83 U	0.5 U	0.12 U	0.12 U	0.12 U		0.12 U	0.12 U	0.2 U	0.1 U		0.1 U		0.1 U	NA		0.52 U				
MW-15B	D	1 U	0.83 U	0.83 U	0.5 U	0.12 U	0.12 U	0.12 U		MW-14B & MW-15B were abandoned in July 2007														
MW-16B	D	MW- 16B through MW-23B were constructed as part of the Phases 2 and 3 development in Sep 2007								0.12 U		0.12 U		0.2 U		0.1 U	0.1 U	0.52	U					
MW-17B	D									0.12 U		0.12 U		0.2 U		0.1 U	NA		NA		NA		NA	U
MW-18B	D									0.12 U		0.12 U		0.2 U		0.1 U	NA		NA		NA		NA	U
MW-19B	D									0.12 U		0.12 U		0.39 I		2	1.4		1.3		NA		NA	
MW-20B	D									0.12 U		0.12 U		0.2 U		0.1 U	NA		NA		NA		NA	U
MW-21B	D									0.12 U		0.12 U		0.2 U		0.1 U	NA		NA		NA		NA	U
MW-22B	B									0.12 U		0.12 U		0.2 U		0.1 U	NA		NA		NA		NA	U
MW-23B	B									0.12 U		0.12 U		0.2 U		0.1 U	0.1 U		0.1 U		0.1 U		0.52	U
MW-1C	B	1 U	0.83 U	0.83 U	0.5 U	0.12 U	0.12 U	0.12 U	MW-1A through MW-15A are monitoring wells constructed as part of the Phase 1 development	NA		NA		NA		0.1 U	NA							
MW-2C	B	1 U	0.83 U	0.83 U	0.5 U	0.12 U	0.12 U	0.12 U		0.12 U	0.12 U		0.1 U		0.1 U		0.1 U	NA						
MW-3C	B	1 U	0.83 U	0.83 U	0.5 U	0.12 U	0.12 U	0.12 U		0.12 U	0.12 U		0.1 U		0.1 U		0.1 U	NA						
MW-4C	B	1 U	0.83 U	0.83 U	0.5 U	0.12 U	0.12 U	0.12 U		0.12 U	0.12 U		0.1 U		0.1 U		0.1 U	NA						
MW-5C	B	1 U	0.83 U	0.83 U	0.5 U	0.12 U	0.12 U	0.12 U		0.12 U	0.12 U		0.1 U		0.1 U		0.1 U	NA						
MW-6C	B	1 U	0.83 U	0.83 U	0.5 U	0.12 U	0.12 U	0.12 U		0.12 U	0.12 U	NA	NA		NA		0.1 U	NA						
MW-7C	D	1 U	0.83 U	0.83 U	0.5 U	0.12 U	0.12 U	0.12 U		0.12 U	0.12 U	0.2 U	0.1 U		0.1 U		0.1 U	NA						
MW-8C	D	1 U	0.83 U	0.83 U	0.5 U	0.12 U	0.12 U	0.12 U		0.12 U	0.12 U	0.2 U	0.1 U		0.1 U		0.1 U	NA						
MW-9C	D	1 U	0.83 U	0.83 U	0.5 U	0.12 U	0.12 U	0.12 U		0.12 U	0.12 U	0.2 U	0.1 U		0.1 U		0.1 U	NA						
MW-10C	D	1 U	0.83 U	0.83 U	0.5 U	0.12 U	0.12 U	0.12 U		0.12 U	0.12 U	0.2 U	0.1 U		0.1 U		0.1 U	NA						
MW-11C	D	1 U	0.83 U	0.83 U	0.5 U	0.12 U	0.12 U	0.12 U		0.12 U	0.12 U	0.2 U	0.1 U		0.1 U		0.1 U	NA						
MW-12C	D	1 U	0.83 U	0.83 U	0.5 U	0.12 U	0.12 U	0.12 U		0.12 U	0.12 U	0.2 U	0.1 U		0.1 U		0.1 U	NA						
MW-13C	D	1 U	0.83 U	0.83 U	0.5 U	0.12 U	0.12 U	0.12 U		0.12 U	0.12 U	0.2 U	0.1 U		0.1 U		0.1 U	NA						
MW-14C	D	1 U	0.83 U	0.83 U	0.5 U	0.12 U	0.12 U	0.12 U		MW-14C & MW-15C were abandoned in July 2007														
MW-15C	D	1 U	0.83 U	0.83 U	0.5 U	0.12 U	0.12 U	0.12 U																
MW-16C	D	MW- 16C through MW-23C were constructed as part of the Phases 2 and 3 development in Sep 2007								0.12 U		0.12 U		0.15 I		0.33 I	0.53 I	0.44 U	0.56 I					
MW-17C	D									0.12 U		0.12 U		0.2 U		0.1 U	NA		NA		NA		NA	
MW-18C	D									0.12 U		0.12 U		0.2 U		0.1 U	NA		NA		NA		NA	
MW-19C	D									0.12 U		0.12 U		0.2 U		0.1 U	NA		NA		NA		NA	
MW-20C	D									0.12 U		0.12 U		0.2 U		0.1 U	NA		NA		NA		NA	
MW-21C	D									0.12 U		0.12 U		0.2 U		0.1 U	NA		NA		NA		NA	
MW-22C	B									0.12 U		0.12 U		0.2 U		0.1 U	NA		NA		NA		NA	
MW-23C	B									0.12 U		0.12 U		0.2 U		0.1 U	NA				0.1 U		NA	

Notes:

µg/L=micrograms per liter

U = Not detected at value represented

I = Value is estimated to be between method detection limit and practical quantitation limit.

NA = Not Analyzed

Well type: (B) Background well (D) Detection well

Constituent detections are shown in shaded cells (green color)

Constituent detections exceeding the GCTL are shown in shaded cells (tan color)

MW-14A, 14B, 14C and MW-15A, 15B, 15C were decommissioned on 10 July 2007

Well ID	Type	PH 1 Baseline Jan-04 (µg/L)	1st Event Jul-04 (µg/L)	2nd Event Jan-05 (µg/L)	3rd Event Jul-05 (µg/L)	4th Event Feb-06 (µg/L)	5th Event Jul-06 (µg/L)	6th Event Feb-07 (µg/L)	PH 2&3 Baseline Sep-07 (µg/L)	7th Event Nov-07 (µg/L)	8th Event May-08 (µg/L)	9th Event Nov-08 (µg/L)	10th Event May-09 (µg/L)	11th Event Nov-09 (µg/L)	12th Event May-10 (µg/L)									
MW-1A	B	50 U	4.7 U	4.7 U	1.1 U	1.8 I	0.69 U	0.69 U	MW-1A through MW-15A are monitoring wells constructed as part of the Phase 1 development	NA		NA		NA		0.3 U	0.6 U	0.4 I						
MW-2A	B	50 U	4.7 U	4.7 U	1.1 U	1.7 I	0.69 U	0.72 I		0.7 U		1.0 I		1.1 I		0.5 I	2.6	1.2 U						
MW-3A	B	50 U	4.7 U	4.7 U	1.1 U	0.9 I	0.69 U	0.69 U		1.4 I		0.5 I		3.1		0.7 I	2.3 U	1.0						
MW-4A	B	50 U	4.7 U	4.7 U	1.8 I	1.6 I	0.89 I	1.1 I		0.9 I		0.9 I		1.6 I		1 I	1.1	1.1 I						
MW-5A	B	10 U	4.7 U	4.7 U	1.1 I	0.95 I	0.94 I	3.3		1.4 I		1.7 I		0.9 I		2	3.4 U	2.2 I						
MW-6A	B	50 U	4.7 U	4.7 U	1.1 U	0.69 U	0.69 U	0.69 U		NA		NA		3.8		1.3 U	1.0							
MW-7A	D	50 U	36 I	4.7 U	1.1 U	2.1	0.97 I	0.91 I		0.8 I		1.1 I		1.4 I		1.7 I	0.8	1.7						
MW-8A	D	50 U	4.7 U	4.7 U	9.7 I	1.6 I	1.4 I	3.1		3.4 I		2.5		4.1		2.7	3.6	4.2 U						
MW-9A	D	50 U	4.7 U	5.7 I	4.3 I	1.7 I	2.9	2.6		3.6 I		3.1		1.2 I		2.3	0.8 U	1.2						
MW-10A	D	50 U	4.7 U	4.7 U	1.1 I	1.2 I	2.3	1.4 I		2.7 I		3.2		1 I		2.7	1.2	0.6						
MW-11A	D	50 U	4.7 U	4.7 U	1.6 I	1.3 I	1.4	1.4 I		1.4 I		1.0 I		1.3 I		0.9 I	2.7 I	1.9						
MW-12A	D	50 U	4.7 U	4.7 U	1.5 I	1.6 I	2.6	1.4 I		1.7 I		0.6 I		2 I		1.4 I	2 I	2.2 I						
MW-13A	D	50 U	4.7 U	4.7 U	1.3 I	0.88 I	0.7	0.69 U		0.7 U		0.4 I		0.7 I		1.8 I	0.6 U	0.4 I						
MW-14A	D	50 U	4.7 U	7.3 I	2.5 I	3.5	3	2.2		MW-14A & MW-15A were abandoned in July 2007														
MW-15A	D	50 U	4.7 U	4.7 U	1.1 U	0.91 I	0.69 U	0.69 U																
MW-16A	D	MW- 16A through MW-23A were constructed as part of the Phases 2 and 3 development in Sep 2007								0.9 I		1.1 I		1.1 I		0.5 I	2.3		0.6		0.4			
MW-17A	D									0.81 I		0.8 I		0.9 I		1.2 I		1 I	NA		NA		NA	
MW-18A	D									0.89 I		0.9 I		0.8 I		1 I		1 I	NA		NA		NA	
MW-19A	D									11		1.3 I		9.9		1 I		2.1		3		4.6		
MW-20A	D									0.75 I		1.6 I		1.1 I		1.6 I		1 I	NA		NA		NA	
MW-21A	D									0.69 U		1.1 I		0.4 I		2		NA		NA		NA		
MW-22A	B									0.69 U		0.7 U		0.3 U		2.1		NA		NA		NA		
MW-23A	B									1.2 I		1.1 I		0.6 I		0.9 I		0.9 I		0.3 I		0.7		
MW-1B	B	10 U	5.4 I	4.7 U	1.1 U	1.2 I	0.69 U	0.69 U	MW-1A through MW-15A are monitoring wells constructed as part of the Phase 1 development	NA		NA		NA		0.3 I	NA	0.3 U						
MW-2B	B	10 U	4.7 U	4.7 U	1.1 U	2.6	0.69 U	0.69 U		0.7 U		0.4 I		0.3 U		0.3 U	NA	0.5 I						
MW-3B	B	10 U	14 I	4.7 U	1.1 U	0.95 I	0.69 U	0.69 U		0.7 U		0.5 I		0.3 U		0.5 I	NA	0.3 I						
MW-4B	B	10 U	4.7 U	4.7 U	1.1 U	0.7 I	0.69 U	0.69 U		0.7 I		1.0 I		1.2 I		2.5	NA	0.6 I						
MW-5B	B	10 U	4.7 U	4.7 U	1.1 U	0.69 U	0.75 I	0.69 U		1.0 I		0.4 I		0.4 I		0.4 I	NA	0.6 U						
MW-6B	B	10 U	6.8 I	4.7 U	1.1 U	1.2 I	0.82 I	0.78 I		NA		NA		3.8		NA	NA	0.5						
MW-7B	D	10 U	29 I	4.7 U	1.1 U	1.8 I	1.1 I	0.84 I		1.2 I		0.7 I		0.4 I		2.8	NA	0.7 I						
MW-8B	D	10 U	11 I	4.7 U	4.9 I	1.9 I	1.6 I	0.91 I		1.4 U		0.6 I		0.5 I		0.5 I	NA	1.0						
MW-9B	D	10 U	7.8 I	4.7 U	5.7 I	0.83 I	0.81 I	0.69 U		1.4 U		0.5 I		0.3 I		0.5 I	NA	0.5 I						
MW-10B	D	10 U	4.7 U	4.7 U	1.1 U	0.69 U	0.69 U	0.69 U		1.4 U		0.3 U		0.3 U		0.4 I	NA	0.4 I						
MW-11B	D	50 U	9.4 I	4.7 U	1.1 U	0.81 I	0.69 U	0.69 U		0.7 U		0.4 I		0.3 U		0.7 I	NA	0.6 I						
MW-12B	D	10 U	11 I	4.7 U	1.4 I	0.69 U	0.99	0.72 I		0.7 U		0.5 I		0.3 U		0.8 I	NA	0.6 I						
MW-13B	D	10 U	4.7 U	4.7 U	1.6 I	3.5	0.9	0.69 U		0.7 U		0.4 I		0.3 U		0.7 I	NA	0.3 U						
MW-14B	D	10 U	4.7 U	4.7 U	1.5 I	0.79 I	0.69 U	0.69 U		MW-14B & MW-15B were abandoned in July 2007														
MW-15B	D	50 U	4.7 U	4.7 U	3.8 I	1 I	0.69 U	0.69 U																
MW-16B	D	MW- 16B through MW-23B were constructed as part of the Phases 2 and 3 development in Sep 2007								1.6 I		2.6 I		4.8		0.6 I	0.5 I	0.7		1 I				
MW-17B	D									1.5 I		1.4 U		0.9 I		0.3 U		NA		NA		NA		
MW-18B	D									1 I		0.7 I		0.3 I		0.3 U		NA		NA		NA		
MW-19B	D									1 I		0.7 U		0.7 I		0.3 U		0.6 I		NA		0.4 I		
MW-20B	D									3.5		2.1		1.3 I		1.4 I		NA		NA		NA		
MW-21B	D									5.5		2.0		1.0 I		0.6 I		NA		NA		NA		
MW-22B	B									14		0.7 U		1.5 I		1.4 I		NA		NA		NA		
MW-23B	B									0.75 I		1.7 I		0.8 I		0.4 I		0.7 I		NA		2.1 I		
MW-1C	B	10 U	4.7 U	4.7 U	1.1 U	0.84 I	0.69 U	0.69 U	MW-1A through MW-15A are monitoring wells constructed as part of the Phase 1 development	NA		NA		NA		0.5 I	NA							
MW-2C	B	10 U	4.7 U	4.7 U	1.1 U	0.69 U	0.69 U	0.69 U		0.7 U		0.7 I		0.3 U		NA	0.3 U	NA						
MW-3C	B	10 U	4.7 U	4.7 U	1.1 U	0.69 U	0.69 U	0.69 U		0.7 U		0.3 I		6.9		NA	0.3 U	NA						
MW-4C	B	10 U	22 I	4.7 U	1.1 U	0.93 I	1.6 I	0.96 I		0.7 U		0.9 I		0.5 I		NA	1.9	NA						
MW-5C	B	10 U	4.7 U	4.7 U	1.1 U	0.69 U	0.69 U	0.69 U		1.0 I		0.3 U		0.3 U		NA	0.3 I	NA						
MW-6C	B	10 U	4.7 U	4.7 U	1.1 U	0.69 I	0.69 U	0.69 U		NA		NA		NA		0.3 U	NA							
MW-7C	D	10 U	19 I	4.7 U	1.1 U	0.84 I	0.69 U	0.69 U		0.7 U		0.3 I		0.3 U		NA	0.4	NA						
MW-8C	D	10 U	4.7 U	4.7 U	1.1 U	0.69 U	0.69 U	0.69 U		1.8 I		0.3 U		0.3 U		NA	0.3 U	NA						
MW-9C	D	10 U	4.7 U	4.7 U	1.1 U	0.69 U	0.69 U	0.69 U		1.4 U		1.7 I		3.8		NA	7.6	NA						
MW-10C	D	10 U	4.7 U	4.7 U	1.1 U	1.2 I	1.8 I	0.69 U		1.4 U		0.6 I		0.4 I		NA	0.5 I	NA						
MW-11C	D	10 U	4.7 U	4.7 U	1.1 U	0.69 U	0.69 U	0.69 U		0.7 U		0.5 I		0.3 U		NA	0.5 I	NA						
MW-12C	D	10 U	4.7 U	4.7 U	1.1 U	0.69 U	0.69 U	0.69 U		0.7 U		0.3 U		0.3 U		NA	0.3 U	NA						
MW-13C	D	50 U	4.7 U	4.7 U	1.1 U	0.69 U	0.93	0.69 U		0.9 I		0.4 I		0.3 U		NA	0.3 U	NA						
MW-14C	D	50 U	6.7 I	4.7 U	1.3 I	1.8 I	1.4	0.69 U		MW-14C & MW-15C were abandoned in July 2007														
MW-15C	D	50 U	4.7 U	4.7 U	1.1 U	0.7 I	0.69 U	0.69 U																
MW-16C	D	MW- 16C through MW-23C were constructed as part of the Phases 2 and 3 development in Sep 2007								0.83 I		1.4 U		0.4 I		0.3 U	0.4 I	0.6 I	1 I					
MW-17C	D									2.1		0.9 I		0.5 I		0.3 U		NA		NA		NA		
MW-18C	D									15		1.8 I		1.8 I		0.4 I		NA		NA		NA		
MW-19C	D									3.3		4.6		0.8 I		0.6 I		NA		1.3		NA		
MW-20C	D									2.9		1.1 I		1.9 I		0.6 I		NA		NA		NA		
MW-21C	D									2.9		3.4		1.0 I		0.6 I		NA		NA		NA		
MW-22C	B									2.1		2.5		1.1 I		4.5 I		NA		NA		NA		
MW-23C	B									3.9		1.5 I		0.5 I		0.4 I		NA		1 I		NA		

Notes:
µg/L=micrograms per liter
U = Not detected at value represented
I = Value is estimated to be between method detection limit and practical quantitation limit.
NA = Not Analyzed
Well type: (B) Background well (D) Detection well
Constituent detections are shown in shaded cells (green color)
Constituent detections exceeding the GCTL are shown in shaded cells (tan color)
MW-14A, 14B, 14C and MW-15A, 15B, 15C were decommissioned on 10 July 2007

Well ID	Type	PH 1 Baseline Jan-04 (µg/L)	1st Event Jul-04 (µg/L)	2nd Event Jan-05 (µg/L)	3rd Event Jul-05 (µg/L)	4th Event Feb-06 (µg/L)	5th Event Jul-06 (µg/L)	6th Event Feb-07 (µg/L)	PH 2&3 Baseline Sep-07 (µg/L)	7th Event Nov-07 (µg/L)	8th Event May-08 (µg/L)	9th Event Nov-08 (µg/L)	10th Event May-09 (µg/L)	11th Event Nov-09 (µg/L)	12th Event May-10 (µg/L)	
MW-1A	B	12	9.5	7.2	9.82	11	11	14	MW-1A through MW-15A are monitoring wells constructed as part of the Phase 1 development	NA	NA	NA	14.8	15.9	12.7	
MW-2A	B	13	10	9.1	9.09	12	12	14		10	11	13	14.5	11.9	13.5	
MW-3A	B	18	18	12	15	16	19	22		33	40	46	27	42.3	28.6	
MW-4A	B	4.6	7.2	3.1	12	12	6.5	6		6.5	9.2	27	20.2	15.7	19.9	
MW-5A	B	4.2	5.2	4.6	4.86	6.3	6.9	11		10	13	18	18.6	26.5	33.6	
MW-6A	B	10	9.1	8.1	9.22	9.3	8.7	10		NA	NA	NA	23.8	23.3	21.7	
MW-7A	D	9.9	10	6	7.74	19	11	14		10	11	15	18.5	11	12.5	
MW-8A	D	12	12	12	9.59	11	12	19		23	16	30	22.9	26	27.7	
MW-9A	D	5.2	4.3	5.2	4.97	7.6	5.1	9		7.7	7.1	11	10.4	13.2	13.7	
MW-10A	D	3	6.5	6.2	7.06	8.1	6.4	7.6		6.7	5.9	10	7.74	8.72	10.1	
MW-11A	D	16	14	15	10.1	9.5	11	12		10	9.9	14	11.8	35.3	52.8	
MW-12A	D	7.9	8	9.6	8.7	10	9.7	9.3		10	14	11	10.1	10.2	10.6	
MW-13A	D	21	13	13	7.92	11	9.9	9.1		11	9	9.3	8.34	7.42	8.4	
MW-14A	D	17	17	14	7.2	15	24	8.1		MW-14A & MW-15A were abandoned in July 2007						
MW-15A	D	10	9.4	11	11.5	15	12	14								
MW-16A	D	MW- 16A through MW-23A were constructed as part of the Phases 2 and 3 development in Sep 2007								8.2	10	8.5	3.1	4.04	1.49	1.6
MW-17A	D									15	11	10	5.8	NA	NA	NA
MW-18A	D									3.7	4	6.4	7.5	NA	NA	NA
MW-19A	D									25	14	18	11	14.5	11.4	18.0
MW-20A	D									18	20	19	9.1	NA	NA	NA
MW-21A	D									15	26	18	7.9	NA	NA	NA
MW-22A	B									24	25	20	12	NA	NA	NA
MW-23A	B									8.7	9.5	14	12	25.6	14.8	12.7
MW-1B	B	4.8	4.1	3.5	3.33	4	3	3.6	MW-1A through MW-15A are monitoring wells constructed as part of the Phase 1 development	NA	NA	NA	5.28	NA	6.3	
MW-2B	B	4.5	4.9	4.6	4.32	5.1	5	5.4		5	5.4	6.1	5.76	NA	6.2	
MW-3B	B	6.2	7	7	5.19	7	6.8	6.5		6.1	6.6	8.3	10.9	NA	7.6	
MW-4B	B	13	15	13	9.18	13	13	11		8.8	54	73	34.3	NA	26.7	
MW-5B	B	4.5	4.3	4.8	4.01	5.4	5.6	4.5		4.3	4.1	7.1	6.32	NA	15.9	
MW-6B	B	7.1	6.6	5.1	4.07	5.1	5.3	5.5		NA	NA	NA	5.89	NA	6.3	
MW-7B	D	6.7	8.8	6.3	5.31	7.1	7.3	7.7		8	7.7	9.3	6.31	NA	12.1	
MW-8B	D	7.4	5.7	5.6	4.75	6.2	5.6	6.1		6.1	5.9	6.5	6.45	NA	6.4	
MW-9B	D	7.3	7.5	8.2	6.76	8.9	8	8.8		8.6	8.8	10	10.2	NA	14.5	
MW-10B	D	6.5	6.4	6.9	6.16	9	8	9.8		9	8.5	9.1	8.61	NA	20.5	
MW-11B	D	15	21	13	11.3	15	15	16		15	15	14	13.2	NA	13.0	
MW-12B	D	6	9	6.2	4.57	6.4	6.2	6.7		7.2	7	8.2	8.23	NA	8.9	
MW-13B	D	8.2	7.1	7.1	5.91	8.5	8.4	7.9		8.3	7.8	8.8	8.27	NA	9.5	
MW-14B	D	5.1	5.5	5.9	5.46	7.5	7.1	6.2		MW-14B & MW-15B were abandoned in July 2007						
MW-15B	D	6.3	7.4	5.8	4.47	5.7	5.1	5.7								
MW-16B	D	MW- 16B through MW-23B were constructed as part of the Phases 2 and 3 development in Sep 2007								7.9	8.1	8.7	8.4	8.48	7.9	8
MW-17B	D									11	12	12	12	NA	NA	NA
MW-18B	D									18	17	16	17	NA	NA	NA
MW-19B	D									17	17	16	16	15.5	NA	17.1
MW-20B	D									17	17	16	16	NA	NA	NA
MW-21B	D									16	16	15	15	NA	NA	NA
MW-22B	B									9.4	9.2	8.6	9.8	NA	NA	NA
MW-23B	B									10	10	9.1	10	9.79	NA	10.3
MW-1C	B	3.6	4.1	4.6	3.69	4.7	4.2	4.2	MW-1A through MW-15A are monitoring wells constructed as part of the Phase 1 development	NA	NA	NA	NA	4.59	NA	
MW-2C	B	3.2	4.8	4.3	3.66	4.8	4.7	4.7		4.7	4.6	4.7	NA	4.84	NA	
MW-3C	B	4.2	5.2	4.6	3.63	4.9	4.8	5.4		5.2	4.9	5	NA	5.09	NA	
MW-4C	B	5.2	8.8	5.8	4.75	7	8	7.7		10	8.4	7.8	NA	8.75	NA	
MW-5C	B	6.3	6.6	6.7	5.98	8.2	8.2	8.5		8.5	8.1	8.6	NA	8.53	NA	
MW-6C	B	3.2	4.2	4.2	3.58	4.8	4.8	4.7		NA	NA	NA	NA	4.71	NA	
MW-7C	D	19	8	5.9	4.56	6	6	6.3		6.3	5.3	6.1	NA	5.93	NA	
MW-8C	D	4.4	4.8	5	4.12	5.6	5.1	5.6		5.7	5.2	5.9	NA	5.59	NA	
MW-9C	D	5	5.6	5.4	4.63	6.1	5.9	6.3		6	5.7	6.4	NA	6.54	NA	
MW-10C	D	6.2	5.8	5.6	4.95	2.4	6.3	5.5		6.2	5.9	6.8	NA	6.56	NA	
MW-11C	D	7.9	9.3	9.4	7.9	10	10	11		10	10	11	NA	11.4	NA	
MW-12C	D	2.6	4.9	4.8	4.12	5.5	5.2	5.5		5.5	5.4	5.7	NA	5.49	NA	
MW-13C	D	7.7	6.7	6.7	5.32	7.3	7.4	7.2		7.6	7.8	7.7	NA	7.76	NA	
MW-14C	D	6.7	6.2	7.1	5.12	6.5	8.5	7.2		MW-14C & MW-15C were abandoned in July 2007						
MW-15C	D	6.7	5.9	5.2	4.14	5.3	4.5	5.1								
MW-16C	D	MW- 16C through MW-23C were constructed as part of the Phases 2 and 3 development in Sep 2007								10	11	11	12	11.7	11.4	11.8
MW-17C	D									12	12	12	12	NA	NA	NA
MW-18C	D									12	12	12	12	NA	NA	NA
MW-19C	D									9.7	9.5	9.8	10	NA	9.43	NA
MW-20C	D									8.6	9.5	9.4	9.6	NA	NA	NA
MW-21C	D									10	10	9.6	8.9	NA	NA	NA
MW-22C	B									6.3	6.6	6.4	6.3	NA	NA	NA
MW-23C	B									5.3	5.3	5	5.4	NA	5.04	NA

Notes:
µg/L=micrograms per liter
U = Not detected at value represented
I = Value is estimated to be between method detection limit and practical quantitation limit.
NA = Not Analyzed
Well type: (B) Background well (D) Detection well
Constituent detections are shown in shaded cells (green color)
Constituent detections exceeding the GCTL are shown in shaded cells (tan color)
MW-14A, 14B, 14C and MW-15A, 15B, 15C were decommissioned on 10 July 2007

Well ID	Type	PH 1 Baseline Jan-04 (µg/L)	1st Event Jul-04 (µg/L)	2nd Event Jan-05 (µg/L)	3rd Event Jul-05 (µg/L)	4th Event Feb-06 (µg/L)	5th Event Jul-06 (µg/L)	6th Event Feb-07 (µg/L)	PH 2&3 Baseline Sep-07 (µg/L)	7th Event Nov-07 (µg/L)	8th Event May-08 (µg/L)	9th Event Nov-08 (µg/L)	10th Event May-09 (µg/L)	11th Event Nov-09 (µg/L)	12th Event May-10 (µg/L)			
MW-1A	B	0.2 U	0.072 U	0.072 U	0.022 U	0.01 U	0.14 U	0.14 U	MW-1A through MW-15A are monitoring wells constructed as part of the Phase 1 development	NA		NA		NA	U	0.08 U	0.08 U	0.08 U
MW-2A	B	0.2 U	0.072 U	0.072 U	0.022 U	0.01 I	0.14 U	0.14 U		0.14 U	0.08 U	0.08 U	U	0.08 U	U	0.08 U		
MW-3A	B	0.2 U	0.072 U	0.072 U	0.022 U	0.03 I	0.14 U	0.14 U		0.14 U	0.08 U	0.08 U	U	0.08 U	U	0.08 U		
MW-4A	B	0.2 U	0.072 U	0.072 U	0.022 U	0.01 U	0.14 U	0.14 U		0.14 U	0.08 U	0.08 U	U	0.08 U	U	0.08 U		
MW-5A	B	0.2 U	0.099 I	0.072 U	0.022 U	0.01 U	0.14 U	0.14 U		0.14 U	0.08 U	0.08 U	U	0.08 U	U	0.08 U		
MW-6A	B	0.2 U	0.072 U	0.072 U	0.022 U	0.01 U	0.14 U	0.14 U		0.14 U	NA	NA	U	0.08 U	U	0.08 U		
MW-7A	D	0.2 U	0.62	0.072 U	0.022 U	0.01 U	0.14 U	0.14 U		0.14 U	0.08 U	0.08 U	U	0.08 U	U	0.08 U		
MW-8A	D	0.2 U	0.072 U	0.072 U	0.022 U	0.34 I	0.14 U	0.14 U		0.14 U	0.08 U	0.08 U	U	0.08 U	U	0.08 U		
MW-9A	D	0.2 U	0.072 U	0.072 U	0.022 U	0.01 U	0.14 U	0.14 U		0.14 U	0.08 U	0.08 U	U	0.08 U	U	0.08 U		
MW-10A	D	0.2 U	0.072 U	0.072 U	0.087 I	0.01 U	0.14 U	0.14 U		0.14 U	0.08 U	0.08 U	I	0.08 U	U	0.08 U		
MW-11A	D	0.2 U	0.072 U	0.072 U	0.022 U	0.01 U	0.14 U	0.14 U		0.14 U	0.08 U	0.08 U	U	0.08 U	U	0.08 U		
MW-12A	D	0.2 U	0.072 U	0.072 U	0.022 U	0.01 U	0.14 U	0.14 U		0.14 U	0.08 U	0.08 U	U	0.08 U	U	0.08 U		
MW-13A	D	0.2 U	0.072 U	0.072 U	0.022 U	0.02 I	0.14 U	0.14 U		0.14 U	0.08 U	0.08 U	U	0.08 U	U	0.08 U		
MW-14A	D	0.2 U	0.072 U	0.072 U	0.022 U	0.06 I	0.14 U	0.14 U		0.14 U	0.08 U	0.08 U	U	0.08 U	U	0.08 U		
MW-15A	D	0.2 U	0.072 U	0.072 U	0.022 U	0.01 U	0.14 U	0.14 U		MW-14A & MW-15A were abandoned in July 2007								
MW-16A	D	MW- 16A through MW-23A were constructed as part of the Phases 2 and 3 development in Sep 2007								0.14 U	0.14 U	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U		
MW-17A	D									0.14 U	0.14 U	0.08 U	0.08 U	NA	NA	NA		
MW-18A	D									0.14 U	0.14 U	0.08 U	0.1 I	NA	NA	NA		
MW-19A	D									0.21 I	0.14 U	0.08 U	0.09 I	0.08 U	0.08 U	0.2 U		
MW-20A	D									0.14 U	0.14 U	0.08 U	0.08 U	NA	NA	NA		
MW-21A	D									0.14 U	0.14 U	0.08 U	0.08 U	NA	NA	NA		
MW-22A	B									0.14 U	0.14 U	0.08 U	0.08 U	NA	NA	NA		
MW-23A	B									0.14 U	0.14 U	0.08 U	0.08 U	0.08 U	0.08 U	0.11 U		
MW-1B	B	0.2 U	0.072 U	0.072 U	0.022 U	0.01 U	0.14 U	0.14 U	MW-1A through MW-15A are monitoring wells constructed as part of the Phase 1 development	NA	NA	NA	U	0.08 U	NA	0.08 U		
MW-2B	B	0.57	0.072 U	0.072 U	0.022 U	0.03 I	0.14 U	0.14 U		0.14 U	0.08 U	0.08 U	U	0.08 U	NA	0.08 U		
MW-3B	B	0.37	0.32	0.17 I	0.022 U	0.36 I	0.14 U	0.14 U		0.14 U	0.08 U	0.08 U	U	0.08 U	NA	0.08 U		
MW-4B	B	0.2 U	0.072 U	0.076 I	0.022 U	0.01 U	0.14 U	0.14 U		0.14 U	0.08 U	0.08 U	U	0.08 U	NA	0.08 U		
MW-5B	B	0.2 U	0.072 U	0.072 U	0.022 U	0.01 U	0.14 U	0.14 U		0.14 U	0.08 U	0.08 U	U	0.08 U	NA	0.08 U		
MW-6B	B	0.2 U	0.072 U	0.072 U	0.022 U	0.01 U	0.14 U	0.14 U		0.14 U	NA	NA	U	0.08 U	NA	0.08 U		
MW-7B	D	0.2 U	0.47	0.072 U	0.022 U	0.01 U	0.14 U	0.14 U		0.14 U	0.08 U	0.08 U	U	0.08 U	NA	0.08 U		
MW-8B	D	0.2 U	0.21	0.072 U	0.022 U	0.01 U	0.14 U	0.14 U		0.14 U	0.08 U	0.08 U	U	0.08 U	NA	0.08 U		
MW-9B	D	0.2 U	0.077 I	0.072 U	0.022 U	0.01 U	0.14 U	0.14 U		0.14 U	0.08 U	0.08 U	U	0.08 U	NA	0.08 U		
MW-10B	D	0.2 U	0.072 U	0.072 U	0.022 U	0.01 U	0.14 U	0.14 U		0.14 U	0.08 U	0.08 U	U	0.08 U	NA	0.08 U		
MW-11B	D	0.2 U	0.18 I	0.076 I	0.022 U	0.08 I	0.14 U	0.14 U		0.14 U	0.08 U	0.08 U	U	0.08 U	NA	0.08 U		
MW-12B	D	0.36	0.21	0.072 U	0.022 U	0.01 U	0.14 U	0.14 U		0.14 U	0.08 U	0.08 U	U	0.08 U	NA	0.08 U		
MW-13B	D	0.43	0.072 U	0.078 I	0.022 U	0.01 U	0.14 U	0.14 U		0.14 U	0.08 U	0.08 U	U	0.08 U	NA	0.08 U		
MW-14B	D	0.2 U	0.072 U	0.072 U	0.022 U	0.01 U	0.14 U	0.14 U		MW-14B & MW-15B were abandoned in July 2007								
MW-15B	D	0.2 U	0.072 U	0.072 U	0.022 U	0.01 U	0.14 U	0.14 U		0.14 U	0.14 U	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U		
MW-16B	D	MW- 16B through MW-23B were constructed as part of the Phases 2 and 3 development in Sep 2007								0.14 U	0.14 U	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U		
MW-17B	D									0.14 U	0.14 U	0.08 U	0.08 U	NA	NA	NA		
MW-18B	D									0.14 U	0.14 U	0.08 U	0.08 U	NA	NA	NA		
MW-19B	D									0.15 I	0.14 U	0.11 I	0.08 U	0.08 U	NA	0.08 U		
MW-20B	D									0.23 I	0.14 U	0.08 U	0.08 U	NA	NA	NA		
MW-21B	D									0.33 I	0.14 U	0.08 U	0.08 U	NA	NA	NA		
MW-22B	B									0.64	0.14 U	0.11 I	0.08 U	NA	NA	NA		
MW-23B	B									0.14 U	0.14 U	0.08 U	0.08 U	0.08 U	NA	0.08 U		
MW-1C	B	0.2 U	0.072 U	0.072 U	0.022 U	0.33 I	0.14 U	0.14 U	MW-1A through MW-15A are monitoring wells constructed as part of the Phase 1 development	NA	NA	NA	U	0.08 U	NA	NA		
MW-2C	B	0.2 U	0.072 U	0.072 U	0.022 U	0.01 U	0.14 U	0.14 U		0.14 U	0.08 U	0.08 U	U	NA	0.08 U	NA		
MW-3C	B	0.2 U	0.072 U	0.072 U	0.022 U	0.01 U	0.14 U	0.14 U		0.14 U	0.08 U	0.08 U	U	NA	0.08 U	NA		
MW-4C	B	0.2 U	0.076 I	0.072 U	0.022 U	0.01 U	0.14 U	0.14 U		0.14 U	0.08 U	0.08 U	U	NA	0.08 U	NA		
MW-5C	B	0.2 U	0.072 U	0.072 U	0.022 U	0.01 U	0.14 U	0.14 U		0.14 U	0.08 U	0.08 U	U	NA	0.08 U	NA		
MW-6C	B	0.2 U	0.072 U	0.072 U	0.022 U	0.01 U	0.14 U	0.14 U		0.14 U	NA	NA	U	NA	0.08 U	NA		
MW-7C	D	0.33	0.26	0.072 U	0.022 U	0.01 U	0.14 U	0.14 U		0.14 U	0.08 U	0.08 U	U	NA	0.08 U	NA		
MW-8C	D	0.2 U	0.072 U	0.072 U	0.022 U	0.01 U	0.14 U	0.14 U		0.14 U	0.08 U	0.08 U	U	NA	0.08 U	NA		
MW-9C	D	0.2 U	0.072 U	0.072 U	0.022 U	0.01 U	0.14 U	0.14 U		0.14 U	0.08 U	0.08 U	U	NA	0.08 U	NA		
MW-10C	D	0.2 U	0.072 U	0.072 U	0.022 U	0.01 U	0.14 U	0.14 U		0.14 U	0.08 U	0.08 U	U	NA	0.08 U	NA		
MW-11C	D	0.2 U	0.072 U	0.072 U	0.022 U	0.01 U	0.14 U	0.14 U		0.14 U	0.08 U	0.08 U	U	NA	0.08 U	NA		
MW-12C	D	0.2 U	0.072 U	0.072 U	0.022 U	0.01 U	0.14 U	0.14 U		0.14 U	0.08 U	0.08 U	U	NA	0.08 U	NA		
MW-13C	D	0.2 U	0.072 U	0.072 U	0.022 U	0.01 U	0.14 U	0.14 U		0.14 U	0.08 U	0.08 U	U	NA	0.08 U	NA		
MW-14C	D	0.2 U	0.072 U	0.072 U	0.022 U	0.01 U	0.14 U	0.14 U		MW-14C & MW-15C were abandoned in July 2007								
MW-15C	D	0.2 U	0.072 U	0.072 U	0.022 U	0.37 I	0.14 U	0.14 U		0.14 U	0.14 U	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U		
MW-16C	D	MW- 16C through MW-23C were constructed as part of the Phases 2 and 3 development in Sep 2007								0.14 U	0.14 U	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U		
MW-17C	D									0.14 U	0.14 U	0.08 U	0.08 U	NA	NA	NA		
MW-18C	D									0.14 U	0.14 U	0.08 U	0.08 U	NA	NA	NA		
MW-19C	D									0.14 U	0.14 U	0.08 U	0.08 U	NA	NA	NA		
MW-20C	D									0.14 U	0.14 U	0.08 U	0.08 U	NA	NA	NA		
MW-21C	D									0.14 U	0.14 U	0.08 U	0.08 U	NA	NA	NA		
MW-22C	B									0.14 U	0.14 U	0.08 U	0.08 U	NA	NA	NA		
MW-23C	B									0.14 U	0.14 U	0.08 U	0.08 U	NA	0.12 U	NA		

Notes:
µg/L=micrograms per liter
U = Not detected at value represented
I = Value is estimated to be between method detection limit and practical quantitation limit.
NA = Not Analyzed
Well type: (B) Background well (D) Detection well
Constituent detections are shown in shaded cells (green color)
Constituent detections exceeding the GCTL are shown in shaded cells (tan color)
MW-14A, 14B, 14C and MW-15A, 15B, 15C were decommissioned on 10 July 2007

Well ID	Type	PH 1 Baseline Jan-04 (mg/L)	1st Event Jul-04 (mg/L)	2nd Event Jan-05 (mg/L)	3rd Event Jul-05 (mg/L)	4th Event Feb-06 (mg/L)	5th Event Jul-06 (mg/L)	6th Event Feb-07 (mg/L)	PH 2&3 Baseline Sep-07 (mg/L)	7th Event Nov-07 (mg/L)	8th Event May-08 (mg/L)	9th Event Nov-08 (µg/L)	10th Event May-09 (µg/L)	11th Event Nov-09 (µg/L)	12th Event May-10 (µg/L)		
MW-1A	B	0.1 U	0.05 U	0.015 I	0.05 U	0.004 U	0.051 U	0.023 U	MW-1A through MW-15A are monitoring wells constructed as part of the Phase 1 development	NA	NA	NA	0.038 U	0.038 U	0.07 U		
MW-2A	B	0.1 U	0.05 U	0.01 U	0.05 U	0.051 U	0.051 U	0.023 U		0.064 U	0.160 I	0.038 U	0.038 U	0.038 U	0.038 U	0.07 U	
MW-3A	B	0.1 U	0.05 U	0.013 I	3	0.051 U	0.051 U	0.023 U		0.064 U	0.160 I	0.038 U	0.038 U	0.038 U	0.038 U	0.07 U	
MW-4A	B	0.1 U	0.05 U	0.011 I	0.05 U	0.051 U	0.051 U	0.023 U		0.064 U	0.160 I	0.038 U	0.038 U	0.038 U	0.038 U	0.07 U	
MW-5A	B	0.1 U	0.05 U	0.01 U	0.05 U	0.051 U	0.051 U	0.023 U		0.064 U	0.170 I	0.038 U	0.038 U	0.038 U	0.038 U	0.07 U	
MW-6A	B	0.1 U	0.05 U	0.014 I	0.05 U	0.051 U	0.051 U	0.023 U		NA	NA	NA	0.038 U	0.038 U	0.038 U	0.07 U	
MW-7A	D	0.1 U	0.05 U	0.01 U	0.05 U	0.051 U	0.051 U	0.023 U		0.064 UQ	0.170 I	0.038 U	0.038 U	0.038 U	0.038 U	0.07 U	
MW-8A	D	0.1 U	0.05 U	0.01 U	0.05 U	0.051 U	0.051 U	0.023 U		0.003 U	0.064 U	0.038 U	0.038 U	0.038 U	0.038 U	0.07 U	
MW-9A	D	0.1 U	0.05 U	0.019 I	0.05 U	0.051 U	0.051 U	0.023 U		0.003 U	0.160 I	0.038 U	0.038 U	0.038 U	0.038 U	0.07 U	
MW-10A	D	0.1 U	0.11	0.01 U	0.11	0.051 U	0.18 I	0.023 U		0.003 U	0.160 I	0.038 U	0.038 U	0.038 U	0.038 U	0.07 U	
MW-11A	D	0.1 U	0.05 U	0.01 U	0.05 U	0.051 U	0.051 U	0.023 U		0.064 U	0.160 I	0.038 U	0.038 U	0.038 U	0.038 U	0.07 U	
MW-12A	D	0.1 U	0.05 U	0.01 U	0.05 U	0.051 U	0.12 I	0.023 U		0.064 U	0.160 I	0.038 U	0.038 U	0.038 U	0.038 U	0.07 U	
MW-13A	D	0.1 U	0.05 U	0.01 U	0.05 U	0.051 U	0.051 U	0.023 U		0.064 U	0.160 I	0.038 U	0.038 U	0.038 U	0.038 U	0.07 U	
MW-14A	D	0.1 U	0.07 I	0.01 U	0.05 U	0.051 U	0.051 U	0.023 U		0.064 U	0.160 I	0.038 U	0.038 U	0.038 U	0.038 U	0.07 U	
MW-15A	D	0.1 U	0.05 U	0.01 U	0.05 U	0.01 I	0.051 U	0.023 U		MW-14A & MW-15A were abandoned in July 2007							
MW-16A	D	MW- 16A through MW-23A were constructed as part of the Phases 2 and 3 development in Sep 2007								0.011 I	0.290	0.064 U	0.16 I	0.22	0.17 U	0.19 U	
MW-17A	D									0.003 I	0.064 U	0.064 U	0.17 I	NA	NA	NA	
MW-18A	D									0.064 U	0.064 U	0.170 I	0.16 I	NA	NA	NA	
MW-19A	D									0.064 U	0.064 U	0.190 I	0.038 U	5.6	0.038 U	0.07 U	U
MW-20A	D									0.064 U	0.064 U	0.160 I	0.15 I	NA	NA	NA	
MW-21A	D									0.064 U	0.120 I	0.210	0.2	NA	NA	NA	
MW-22A	B									0.064 U	0.064 U	0.064 U	0.22	NA	NA	NA	
MW-23A	B									0.007 I	0.064 U	0.160 I	0.038 U	0.038 U	0.038 U	0.07 U	U
MW-1B	B	0.1 U	0.05 U	0.01 U	0.05 U	0.004 U	0.051 U	0.023 U	MW-1A through MW-15A are monitoring wells constructed as part of the Phase 1 development	NA	NA	NA	0.038 U	NA	0.07 U		
MW-2B	B	0.1 U	0.05 U	0.015 I	0.05 U	0.051 U	0.051 U	0.023 U		0.064 U	0.170 I	0.038 U	0.038 U	NA	0.07 U		
MW-3B	B	0.1 U	0.05 U	0.01 U	0.05 U	0.051 U	0.051 U	0.023 U		0.064 U	0.064 U	0.038 U	0.038 U	NA	0.07 U		
MW-4B	B	0.1 U	0.05 U	0.01 U	0.05 U	0.051 U	0.051 U	0.023 U		0.064 U	0.064 U	0.038 U	0.038 U	NA	0.07 U		
MW-5B	B	0.1 U	0.05 U	0.01 U	0.05 U	0.051 U	0.051 U	0.023 U		0.064 UQ	0.064 U	0.038 U	0.038 U	NA	0.07 U		
MW-6B	B	0.1 U	0.05 U	0.01 U	0.05 U	0.051 U	0.051 U	0.023 U		NA	NA	NA	0.038 U	NA	0.07 U		
MW-7B	D	0.1 U	0.05 U	0.01 U	0.05 U	0.051 U	0.051 U	0.023 U		0.064 UQ	0.064 U	0.038 U	0.038 U	NA	0.07 U		
MW-8B	D	0.1 U	0.05 U	0.01 U	0.05 U	0.051 U	0.051 U	0.023 U		0.003 U	0.170 I	0.038 U	0.038 U	NA	0.07 U		
MW-9B	D	0.1 U	0.05 U	0.01 U	0.05 U	0.051 U	0.051 U	0.023 U		0.003 U	0.064 U	0.038 U	0.038 U	NA	0.07 U		
MW-10B	D	0.1 U	0.05 U	0.01 U	0.05 U	0.051 U	0.051 U	0.023 U		0.003 U	0.064 U	0.038 U	0.038 U	NA	0.07 U		
MW-11B	D	0.1 U	0.05 U	0.01 U	0.05 U	0.051 U	0.051 U	0.023 U		0.064 U	0.064 U	0.038 U	0.038 U	NA	0.07 U		
MW-12B	D	0.1 U	0.05 U	0.01 U	0.05 U	0.051 U	0.051 U	0.023 U		0.064 U	0.064 U	0.038 U	0.038 U	NA	0.07 U		
MW-13B	D	0.1 U	0.05 U	0.01 U	0.05 U	0.051 U	0.051 U	0.023 U		0.064 U	0.064 U	0.038 U	0.038 U	NA	0.07 U		
MW-14B	D	0.1 U	0.05 U	0.01 U	0.05 U	0.051 U	0.051 U	0.023 U		0.064 U	0.064 U	0.038 U	0.038 U	NA	0.07 U		
MW-15B	D	0.1 U	0.05 U	0.014 I	0.05 U	0.004 U	0.051 U	0.023 U		MW-14B & MW-15B were abandoned in July 2007							
MW-16B	D	MW- 16B through MW-23B were constructed as part of the Phases 2 and 3 development in Sep 2007								0.051	0.003 U	0.180 I	0.038 U	0.038 U	0.07 U	U	
MW-17B	D									0.064 U	0.003 U	0.170 I	0.038 U	NA	NA	NA	
MW-18B	D									0.064 U	0.064 U	0.064 U	0.038 U	NA	NA	NA	
MW-19B	D									0.064 U	0.064 U	0.170 I	0.038 U	0.038 U	0.07 U	U	
MW-20B	D									0.064 U	0.064 U	0.180 I	0.038 U	NA	NA	NA	
MW-21B	D									0.064 U	0.064 U	0.180 I	0.15 I	NA	NA	NA	
MW-22B	B									0.064 U	0.064 U	0.180 I	0.15 I	NA	NA	NA	
MW-23B	B									0.008 I	0.064 U	0.064 U	0.038 U	0.038 U	0.07 U	U	
MW-1C	B	0.1 U	0.05 U	0.094	0.05 U	0.004 U	0.051 U	0.023 U	MW-1A through MW-15A are monitoring wells constructed as part of the Phase 1 development	NA	NA	NA	NA	0.038 U	NA	NA	
MW-2C	B	0.1 U	0.05 U	0.021 I	0.05 U	0.051 U	0.051 U	0.023 U		0.064 U	0.064 U	0.038 U	0.038 U	NA	0.038 U	NA	
MW-3C	B	0.1 U	0.05 U	0.015 I	0.05 U	0.051 U	0.051 U	0.023 U		0.064 U	0.064 U	0.038 U	0.038 U	NA	0.038 U	NA	
MW-4C	B	0.1 U	0.05 U	0.019 I	0.05 U	0.051 U	0.051 U	0.023 U		0.064 U	0.064 U	0.038 U	0.038 U	NA	0.038 U	NA	
MW-5C	B	0.1 U	0.05 U	0.01 U	0.05 U	0.051 U	0.051 U	0.023 U		0.064 UQ	0.064 U	0.038 U	0.038 U	NA	0.038 U	NA	
MW-6C	B	0.1 U	0.05 U	0.01 U	0.05 U	0.051 U	0.051 U	0.023 U		NA	NA	NA	NA	0.038 U	NA	NA	
MW-7C	D	0.1 U	0.05 U	0.01 U	0.05 U	0.051 U	0.051 U	0.023 U		0.064 UQ	0.064 U	0.038 U	0.038 U	NA	0.038 U	NA	
MW-8C	D	0.1 U	0.05 U	0.01 U	0.05 U	0.051 U	0.23	0.023 U		0.003 U	0.064 U	0.038 U	0.038 U	NA	0.038 U	NA	
MW-9C	D	0.1 U	0.05 U	0.01 U	0.05 U	0.051 U	0.21	0.023 U		0.003 U	0.170 I	0.038 U	0.038 U	NA	0.038 U	NA	
MW-10C	D	0.1 U	0.05 U	0.01 U	0.05 U	0.051 U	0.18 I	0.023 U		0.003 U	0.064 U	0.038 U	0.038 U	NA	0.038 U	NA	
MW-11C	D	0.1 U	0.05 U	0.01 U	0.05 U	0.051 U	0.051 U	0.023 U		0.064 U	0.064 U	0.038 U	0.038 U	NA	0.038 U	NA	
MW-12C	D	0.1 U	0.05 U	0.01 U	0.05 U	0.051 U	0.051 U	0.023 U		0.064 U	0.064 U	0.038 U	0.038 U	NA	0.038 U	NA	
MW-13C	D	0.1 U	0.05 U	0.01 U	0.05 U	0.051 U	0.051 U	0.023 U		0.064 U	0.064 U	0.038 U	0.038 U	NA	0.038 U	NA	
MW-14C	D	0.1 U	0.05 U	0.012 I	0.05 U	0.004 I	0.051 U	0.023 U		MW-14C & MW-15C were abandoned in July 2007							
MW-15C	D	0.1 U	0.05 U	0.01 U	0.05 U	0.004 U	0.051 U	0.023 U		MW-14C & MW-15C were abandoned in July 2007							
MW-16C	D	MW- 16C through MW-23C were constructed as part of the Phases 2 and 3 development in Sep 2007								0.064 U	0.003 U	0.064 U	0.038 U	0.038 U	0.07 U	U	
MW-17C	D									0.064 U	0.064 U	0.064 U	0.038 U	NA	NA	NA	
MW-18C	D									0.064 U	0.064 U	0.170 I	0.038 U	NA	NA	NA	
MW-19C	D									0.064 U	0.064 U	0.180 I	0.038 U	NA	NA	NA	
MW-20C	D									0.064 U	0.064 U	0.180 I	0.038 U	NA	NA	NA	
MW-21C	D									0.064 U	0.064 U	0.180 I	0.15 I	NA	NA	NA	
MW-22C	B									0.016 I	0.064 U	0.064 U	0.15 I	NA	NA	NA	
MW-23C	B									0.32	0.064 U	0.180 I	0.038 U	NA	0.038 U	NA	

Notes:
µg/L=micrograms per liter
U = Not detected at value represented
I = Value is estimated to be between method detection limit and practical quantitation limit.
NA = Not Analyzed
Well type: (B) Background well (D) Detection well
Constituent detections are shown in shaded cells (green color)
Constituent detections exceeding the GCTL are shown in shaded cells (tan color)
MW-14A, 14B, 14C and MW-15A, 15B, 15C were decommissioned on 10 July 2007

Well ID	Type	PH 1 Baseline Jan-04 (µg/L)	1st Event Jul-04 (µg/L)	2nd Event Jan-05 (µg/L)	3rd Event Jul-05 (µg/L)	4th Event Feb-06 (µg/L)	5th Event Jul-06 (µg/L)	6th Event Feb-07 (µg/L)	PH 2&3 Baseline Sep-07 (µg/L)	7th Event Nov-07 (µg/L)	8th Event May-08 (µg/L)	9th Event Nov-08 (µg/L)	10th Event May-09 (µg/L)	11th Event Nov-09 (µg/L)	12th Event May-10 (µg/L)									
MW-1A	B	10 U	4.8 U	4.8 U	2 U	1.4 I	0.79 U	0.79 U	MW-1A through MW-15A are monitoring wells constructed as part of the Phase 1 development	NA		NA		NA		0.8 U	0.8 U	1.0 U						
MW-2A	B	10 U	4.8 U	4.8 U	2 U	1 U	0.79 U	0.79 U		0.8 U	U	0.7 U	I	0.9 I	0.8 U	0.8 U	U	1.0 U						
MW-3A	B	10 U	4.8 U	4.8 U	2 U	1 U	0.79 U	0.79 U		0.8 U	U	0.93 I	0.7 U	0.8 U	0.8 U	U	1.4 U							
MW-4A	B	10 U	4.8 U	4.8 U	2 U	1 U	0.79 U	0.79 U		0.8 U	U	0.7 U	U	0.7 U	0.8 U	U	0.9 I							
MW-5A	B	10 U	4.8 U	4.8 U	2 U	1 U	0.79 U	0.79 U		0.8 U	U	0.8 I	1 I	1 I	1 U	U	1.7 U							
MW-6A	B	10 U	4.8 U	4.8 U	2 U	1 U	0.79 U	0.79 U		NA		NA		NA	0.8 U	U	1.6							
MW-7A	D	10 U	23	4.8 U	2 U	1 U	0.79 U	0.79 U		0.8 U	U	0.7 U	U	12.8	0.8 U	U	2.2							
MW-8A	D	10 U	4.8 U	4.8 U	2 U	1 U	0.79 U	0.79 U		1.6 U	U	0.7 U	U	0.7 U	0.8 U	U	0.9 U							
MW-9A	D	10 U	4.8 U	4.8 U	2 U	1 U	0.79 U	0.79 U		1.6 U	U	0.7 U	U	0.9 I	0.8 U	U	1.7							
MW-10A	D	10 U	4.8 U	4.8 U	2 U	1 U	0.79 U	0.79 U		1.6 U	U	0.7 U	U	0.7 I	1.2 I	0.8 U	0.9 U							
MW-11A	D	10 U	4.8 U	4.8 U	7.7 I	1 U	0.91	1.10 I		1 U	U	1.3 I	I	0.7 U	2.1	0.8 U	0.9 U							
MW-12A	D	10 U	4.8 U	4.8 U	2 U	1 U	0.79 U	0.79 U		0.8 U	U	2		0.7 U	1.7 I	0.8 U	0.9 I							
MW-13A	D	10 U	4.8 U	4.8 U	3 I	1 U	0.79 U	0.79 U		1 U	U	0.71 I	I	0.7 U	U	0.8 U	0.9 I							
MW-14A	D	10 U	4.8 U	4.8 U	2 U	1 U	0.79 U	0.79 U		MW-14A & MW-15A were abandoned in July 2007														
MW-15A	D	10 U	4.8 U	4.8 U	2 U	1.1 I	0.79 U	0.79 U		0.85 I	I	0.8 U	U	0.7 U	U	0.7 U	2.4		0.8 U	U	2.7			
MW-16A	D	MW- 16A through MW-23A were constructed as part of the Phases 2 and 3 development in Sep 2007								0.88 I	I	0.8 U	U	0.7 U	U	0.7 U	U	NA		NA				
MW-17A	D									0.79 U	U	0.8 U	U	0.7 U	U	0.7 U	U	NA		NA		NA		
MW-18A	D									12		0.8 U	U	4.7		0.7 U	U	9.2		2.1	U	4.9	I	
MW-19A	D									0.79 U	U	2.4		0.82 I	I	0.7 U	U	NA		NA		NA		
MW-20A	D									0.79 U	U	0.8 U	U	0.7 U	U	0.7 U	U	NA		NA		NA		
MW-21A	D									0.79 U	U	0.8 U	U	0.7 U	U	0.7 U	U	NA		NA		NA		
MW-22A	B									0.79 U	U	0.8 U	U	0.7 U	U	0.7 U	U	NA		NA		NA		
MW-23A	B									1.1 I	I	0.8 U	U	0.7 U	U	0.7 U	U	1.3 I	I	0.8 U	U	1.3		
MW-1B	B	10 U	4.8 U	4.8 U	2 U	2 I	0.79 U	0.79 U	MW-1A through MW-15A are monitoring wells constructed as part of the Phase 1 development	NA		NA		NA		0.8 U	NA		0.9 U					
MW-2B	B	10 U	4.8 U	4.8 U	2 U	2.6	1.2 I	0.79 U		0.8 U	U	0.7 U	U	0.7 U	U	NA		0.9 I						
MW-3B	B	10 U	12	4.8 U	2 U	1 U	0.79 U	0.79 U		0.8 U	U	0.7 U	U	0.7 U	U	0.8 U	NA		0.9 I					
MW-4B	B	10 U	4.8 U	4.8 U	2.9 I	1 U	0.79 U	0.79 U		0.8 U	U	0.7 U	U	0.7 U	U	0.8 U	NA		0.9 U					
MW-5B	B	10 U	4.8 U	4.8 U	2 U	1 U	0.79 U	0.79 U		0.8 U	U	0.7 U	U	0.9 I	0.8 U	NA		0.9 U						
MW-6B	B	10 U	5.7 I	4.8 U	2 I	1 U	0.79 U	0.79 U		NA		NA		NA	0.8 U	NA		0.9 U						
MW-7B	D	10 U	25	4.8 U	2.7 I	1 U	0.87 I	0.79 U		0.8 U	U	0.7 U	U	0.7 U	U	0.8 U	NA		0.9 I					
MW-8B	D	10 U	8.8 I	4.8 U	2.6 I	1 U	1.3 I	0.79 U		2.9 I	I	0.7 U	I	0.8 I	0.8 U	NA		1.2 I						
MW-9B	D	10 U	7.6 I	4.8 U	2.5 I	1 U	0.79 U	0.79 U		1.6 U	U	0.7 U	U	1.1 I	0.8 U	NA		0.9 U						
MW-10B	D	10 U	4.8 U	4.8 U	2 U	1 U	0.79 U	0.79 U		1.6 U	U	0.7 U	U	0.7 U	U	0.8 U	NA		0.9 U					
MW-11B	D	10 U	13	4.8 U	2 U	1 U	1.2	0.79 U		0.8 U	U	0.7 U	U	0.7 U	U	0.9 I	NA		0.9 I					
MW-12B	D	10 U	4.8 I	4.8 U	2.6 I	1 U	0.79 U	0.79 U		0.8 U	U	0.7 U	U	0.7 U	U	0.8 U	NA		0.9 U					
MW-13B	D	10 U	6.8 I	4.8 U	2 I	1.6 I	2.8	0.79 U		0.8 U	U	0.7 U	U	0.7 U	U	0.8 U	NA		0.9 U					
MW-14B	D	10 U	4.8 U	4.8 U	2 I	1 U	0.79 U	0.79 U		MW-14B & MW-15B were abandoned in July 2007														
MW-15B	D	10 U	4.8 U	4.8 U	2 U	2.3	0.79 U	0.79 U		1.2 I	I	2.8		4		0.7 U	U	0.8 U	U		0.9 I			
MW-16B	D	MW- 16B through MW-23B were constructed as part of the Phases 2 and 3 development in Sep 2007								2.4		1.1 I	I	0.81 I	I	0.7 U	U	NA		NA				
MW-17B	D									0.79 I	I	0.8 U	U	0.7 U	U	0.7 U	U	NA		NA		NA		
MW-18B	D									1.5 I	I	0.8 U	U	1.1 I	I	0.7 U	U	0.8 U	U	NA		NA		7.1 U
MW-19B	D									5.6		2.2		2.2		0.7 U	U	NA		NA		NA		
MW-20B	D									8.6		3.1		1.7 I	I	0.7 U	U	NA		NA		NA		
MW-21B	D									24		0.8 U	U	1.4 I	I	1.1 I	I	NA		NA		NA		
MW-22B	B									0.79 U	U	0.8 U	U	0.7 U	U	0.7 U	U	0.8 U	U	0.8 U	U	NA		0.90 I
MW-23B	B									MW-14C & MW-15C were abandoned in July 2007														
MW-1C	B	10 U	4.8 U	4.8 U	2 U	2.3	0.79 U	0.79 U	MW-1A through MW-15A are monitoring wells constructed as part of the Phase 1 development	NA		NA		NA		0.8 U	NA							
MW-2C	B	10 U	4.8 U	4.8 U	2 U	1 U	0.79 U	0.79 U		0.8 U	U	0.7 U	U	0.7 U	U	NA		0.8 U	NA					
MW-3C	B	10 U	4.8 U	4.8 U	2 U	1 U	0.79 U	0.79 U		0.8 U	U	0.7 U	U	0.7 U	U	NA		0.8 U	NA					
MW-4C	B	10 U	4.8 U	4.8 U	2 U	1 U	0.79 U	0.79 U		0.8 U	U	0.7 U	U	0.7 U	U	NA		0.8 U	NA					
MW-5C	B	10 U	4.8 U	4.8 U	2 U	1 U	0.79 U	0.79 U		0.8 U	U	0.7 U	U	0.7 U	U	NA		0.8 U	NA					
MW-6C	B	10 U	4.8 U	4.8 U	3.9 I	1 U	0.79 U	0.79 U		NA		NA		NA		NA		0.8 U	NA					
MW-7C	D	10 U	14	4.8 U	2 U	1 U	0.79 U	0.79 U		0.8 U	U	0.7 U	U	0.7 U	U	NA		0.8 U	NA					
MW-8C	D	10 U	4.8 U	4.8 U	3.9 I	1 U	0.79 U	0.79 U		1.6 U	U	0.7 U	U	0.7 U	U	NA		0.8 U	NA					
MW-9C	D	10 U	4.8 U	4.8 U	3 I	1 U	0.79 U	0.79 U		1.6 U	U	0.7 U	U	0.7 U	U	NA		0.8 U	NA					
MW-10C	D	10 U	4.8 U	4.8 U	2 U	1 U	0.79 U	0.79 U		1.6 U	U	0.7 U	U	0.7 U	U	NA		0.8 U	NA					
MW-11C	D	10 U	4.8 U	4.8 U	2 U	1 U	0.79 U	0.79 U		0.8 U	U	0.7 U	U	0.7 U	U	NA		0.8 U	NA					
MW-12C	D	10 U	4.8 U	4.8 U	3 I	1 U	0.79 U	0.79 U		0.8 U	U	0.7 U	U	0.7 U	U	NA		0.8 U	NA					
MW-13C	D	10 U	4.8 U	4.8 U	2 U	1 U	0.79 U	0.79 U		0.8 U	U	0.7 U	U	0.7 U	U	NA		0.8 U	NA					
MW-14C	D	10 U	4.8 U	4.8 U	2.4 I	2.2	0.79 U	0.79 U		MW-14C & MW-15C were abandoned in July 2007														
MW-15C	D	10 U	4.8 U	4.8 U	2 U	2.2	0.79 U	0.79 U		MW-14C & MW-15C were abandoned in July 2007														
MW-16C	D	MW- 16C through MW-23C were constructed as part of the Phases 2 and 3 development in Sep 2007								0.79 U	U	1.6 U	U	0.7 U	U	0.7 U	U	0.8 U	U	0.9 U	U			
MW-17C	D									0.79 U	U	0.8 U	U	0.7 U	U	0.7 U	U	NA		NA		NA		
MW-18C	D									2.2		0.8 U	U	0.7 U	U	0.7 U	U	NA		NA		NA		
MW-19C	D									1.1 I	I	0.8 U	U	0.7 U	U	0.7 U	U	NA		NA		NA		
MW-20C	D									1.1 I	I	0.8 I	I	0.8 I	I	0.7 U	U	NA		NA		NA		
MW-21C	D									1.3 I	I	0.8 U	U	0.7 U	U	0.7 U	U	NA		NA		NA		
MW-22C	B									0.79 U	U	0.8 U	U	0.7 U	U	0.7 U	U	NA		NA		NA		
MW-23C	B									1.6 I	I	0.8 U	U	0.7 U	U	0.7 U	U	NA		NA		0.8 U	U	NA

Notes:
µg/L=micrograms per liter
U = Not detected at value represented
I = Value is estimated to be between method detection limit and practical quantitation limit.
NA = Not Analyzed
Well type: (B) Background well (D) Detection well
Constituent detections are shown in shaded cells (green color)
Constituent detections exceeding the GCTL are shown in shaded cells (tan color)
MW-14A, 14B, 14C and MW-15A, 15B, 15C were decommissioned on 10 July 2007

Well ID	Type	PH 1 Baseline Jan-04 (µg/L)		1st Event Jul-04 (µg/L)		2nd Event Jan-05 (µg/L)		3rd Event Jul-05 (µg/L)		4th Event Feb-06 (µg/L)		5th Event Jul-06 (µg/L)		6th Event Feb-07 (µg/L)		PH 2&3 Baseline Sep-07 (µg/L)		7th Event Nov-07 (µg/L)		8th Event May-08 (µg/L)		9th Event Nov-08 (µg/L)		10th Event May-09 (µg/L)		11th Event Nov-09 (µg/L)		12th Event May-10 (µg/L)	
MW-1A	B	10.0	U	0.0019	U	0.0019	U	0.6	U	0.039	U	0.02	U	0.039	U	MW-1A through MW-15A are monitoring wells constructed as part of the Phase 1 development	NA		NA		NA		0.08	U	0.08	U	0.09	U	
MW-2A	B	10.0	U	0.0019	U	0.0019	U	0.6	U	0.039	U	0.02	U	0.039	U		0.039	U	0.08	U	0.08	U	0.08	U	0.08	U	0.09	U	
MW-3A	B	10.0	U	0.0019	U	0.0019	U	0.6	U	0.039	U	0.02	U	0.039	U		0.039	U	0.08	U	0.08	U	0.08	U	0.08	U	0.09	U	
MW-4A	B	10.0	U	0.0019	U	0.0019	U	0.6	U	0.039	U	0.02	U	0.039	U		0.039	U	0.08	U	0.08	U	0.08	U	0.08	U	0.09	U	
MW-5A	B	10.0	U	0.0019	U	0.0019	U	0.6	U	0.039	U	0.02	U	0.039	U		0.039	U	0.08	U	0.08	U	0.08	U	0.08	U	0.09	U	
MW-6A	B	10.0	U	0.0019	U	0.0019	U	0.6	U	0.039	U	0.02	U	0.039	U		0.039	U	NA		NA		0.08	U	0.08	U	0.09	U	
MW-7A	D	10.0	U	0.0019	U	0.0019	U	0.6	U	0.039	U	0.02	U	0.039	U		0.039	U	0.08	U	0.08	U	0.08	U	0.08	U	0.09	U	
MW-8A	D	10.0	U	0.0019	U	0.0019	U	0.6	U	0.039	U	0.02	U	0.039	U		0.039	U	0.08	U	0.08	U	0.08	U	0.08	U	0.09	U	
MW-9A	D	10.0	U	0.0019	U	0.0019	U	0.6	U	0.039	U	0.02	U	0.039	U		0.039	U	0.08	U	0.08	U	0.08	U	0.08	U	0.09	U	
MW-10A	D	10.0	U	0.0019	U	0.0019	U	0.6	U	0.039	U	0.02	U	0.039	U		0.039	U	0.08	U	0.08	U	0.08	U	0.08	U	0.09	U	
MW-11A	D	10.0	U	0.0019	U	0.0019	U	0.6	U	0.039	U	1.00	U	0.039	U		0.039	U	0.08	U	0.08	U	0.08	U	0.08	U	0.09	U	
MW-12A	D	10.0	U	0.0019	U	0.0019	U	0.6	U	0.039	U	1.90		0.045	I		0.039	U	0.08	U	0.08	U	0.08	U	0.08	U	0.09	U	
MW-13A	D	10.0	U	0.0019	U	0.0019	U	0.6	U	0.039	U	1.00	U	0.039	U		0.039	U	0.08	U	0.08	U	0.08	U	0.08	U	0.09	U	
MW-14A	D	10.0	U	0.0019	U	0.0019	U	0.6	U	0.039	U	1.30		0.039	U		0.039	U	0.08	U	0.08	U	0.08	U	0.08	U	0.09	U	
MW-15A	D	10.0	U	0.0019	U	0.0019	U	0.6	U	0.039	U	0.02	U	0.039	U		MW-14A & MW-15A were abandoned in July 2007												
MW-16A	D	MW- 16A through MW-23A were constructed as part of the Phases 2 and 3 development in Sep 2007														0.039	U	0.039	U	0.08	U	0.08	U	0.08	U	0.08	U	0.09	U
MW-17A	D															0.039	U	0.039	U	0.08	U	0.08	U	NA		NA		NA	
MW-18A	D															0.039	U	0.039	U	0.08	U	0.08	U	NA		NA		NA	
MW-19A	D															0.039	U	0.039	U	0.08	U	0.08	U	0.08	U	0.08	U	0.09	U
MW-20A	D															0.039	U	0.039	U	0.08	U	0.08	U	NA		NA		NA	
MW-21A	D															0.039	U	0.039	U	0.08	U	0.08	U	NA		NA		NA	
MW-22A	B															0.039	U	0.039	U	0.08	U	0.22	I	NA		NA		NA	
MW-23A	B															0.039	U	0.039	U	0.08	U	0.08	U	0.08	U	0.08	U	0.09	U
MW-1B	B	10.0	U	0.0019	U	0.0019	U	0.6	U	0.039	U	0.02	U	0.039	U	MW-1A through MW-15A are monitoring wells constructed as part of the Phase 1 development	NA		NA		NA		0.08	U	NA		0.09	U	
MW-2B	B	10.0	U	0.0019	U	0.0019	U	0.6	U	0.039	U	0.05	I	0.039	U		0.039	U	0.08	U	0.08	U	0.08	U	NA		0.09	U	
MW-3B	B	10.0	U	0.0019	U	0.0019	U	0.6	U	0.039	U	0.04	I	0.039	U		0.039	U	0.08	U	0.08	U	0.08	U	NA		0.09	U	
MW-4B	B	10.0	U	0.0019	U	0.0019	U	0.6	U	0.039	U	0.02	U	0.039	U		0.039	U	0.08	U	0.08	U	0.08	U	NA		0.09	U	
MW-5B	B	10.0	U	0.0019	U	0.0019	U	0.6	U	0.039	U	0.02	U	0.039	U		0.039	U	0.08	U	0.08	U	0.08	U	NA		0.09	U	
MW-6B	B	10.0	U	0.0019	U	0.0019	U	0.6	U	0.039	U	0.02	U	0.039	U		NA		NA		NA		0.08	U	NA		0.09	U	
MW-7B	D	10.0	U	0.0019	U	0.0019	U	0.6	U	0.039	U	0.02	U	0.039	U		0.039	U	0.08	U	0.08	U	0.08	U	NA		0.09	U	
MW-8B	D	10.0	U	0.0019	U	0.0019	U	0.6	U	0.039	U	0.02	I	0.039	U		0.039	U	0.08	U	0.08	U	0.08	U	NA		0.09	U	
MW-9B	D	10.0	U	0.0019	U	0.0019	U	0.6	U	0.039	U	0.02	U	0.039	U		0.039	U	0.08	U	0.08	U	0.08	U	NA		0.09	U	
MW-10B	D	10.0	U	0.0019	U	0.0019	U	0.6	U	0.039	U	0.02	U	0.039	U		0.039	U	0.08	U	0.08	U	0.08	U	NA		0.09	U	
MW-11B	D	10.0	U	0.0019	U	0.0019	U	0.6	U	0.039	U	2.10		0.039	U		0.039	U	0.08	U	0.08	U	0.08	U	NA		0.09	U	
MW-12B	D	10.0	U	0.0019	U	0.0019	U	0.6	U	0.039	U	1.80		0.039	U		0.039	U	0.08	U	0.08	U	0.08	U	NA		0.09	U	
MW-13B	D	10.0	U	0.0019	U	0.0019	U	0.6	U	0.039	U	1.40		0.039	U		0.039	U	0.08	U	0.08	U	0.08	U	NA		0.09	U	
MW-14B	D	10.0	U	0.0019	U	0.0019	U	0.6	U	0.039	U	47.0		0.039	U		MW-14B & MW-15B were abandoned in July 2007												
MW-15B	D	10.0	U	0.0019	U	0.0019	U	0.6	U	0.039	U	0.02	U	0.039	U		0.039	U	0.039	U	0.08	U	0.08	U	0.08	U	0.08	U	
MW-16B	D	MW- 16B through MW-23B were constructed as part of the Phases 2 and 3 development in Sep 2007														0.039	U	0.039	U	0.08	U	0.08	U	0.08	U	0.08	U	0.09	U
MW-17B	D															0.039	U	0.039	U	0.08	U	0.08	U	0.08	U	NA		0.09	U
MW-18B	D															0.039	U	0.039	U	0.08	U	0.08	U	0.08	U	NA		0.09	U
MW-19B	D															0.039	U	0.039	U	0.08	U	0.08	U	0.08	U	NA		0.09	U
MW-20B	D															0.039	U	0.039	U	0.08	U	0.08	U	0.08	U	NA		0.09	U
MW-21B	D															0.1	I	0.039	U	0.08	U	0.08	U	0.08	U	NA		0.09	U
MW-22B	B															0.1	I	0.039	U	0.08	U	0.08	U	0.08	U	NA		0.09	U
MW-23B	B															0.039	U	0.039	U	0.08	U	0.08	U	0.08	U	NA		0.09	U
MW-1C	B	10.0	U	0.0019	U	0.0019	U	0.6	U	0.039	U	0.02	U	0.039	U	MW-1A through MW-15A are monitoring wells constructed as part of the Phase 1 development	NA		NA		NA		NA		0.08	U	NA		
MW-2C	B	10.0	U	0.0019	U	0.0019	U	0.6	U	0.039	U	0.02	U	0.039	U		0.039	U	0.08	U	0.08	U	NA		0.08	U	NA		
MW-3C	B	10.0	U	0.0019	U	0.0019	U	0.6	U	0.039	U	0.02	U	0.039	U		0.039	U	0.08	U	0.08	U	NA		0.08	U	NA		
MW-4C	B	10.0	U	0.0019	U	0.0019	U	0.6	U	0.039	U	0.02	U	0.039	U		0.039	U	0.08	U	0.08	U	NA		0.08	U	NA		
MW-5C	B	10.0	U	0.0019	U	0.0019	U	0.6	U	0.039	U	0.02	U	0.039	U		0.039	U	0.08	U	0.08	U	NA		0.08	U	NA		
MW-6C	B	10.0	U	0.0019	U	0.0019	U	0.6	U	0.039	U	0.02	U	0.039	U		0.039	U	NA		NA		NA		0.08	U	NA		
MW-7C	D	10.0	U	0.001																									

Well ID	Type	PH 1 Baseline Jan-04 (µg/L)		1st Event Jul-04 (µg/L)		2nd Event Jan-05 (µg/L)		3rd Event Jul-05 (µg/L)		4th Event Feb-06 (µg/L)		5th Event Jul-06 (µg/L)		6th Event Feb-07 (µg/L)		PH 2&3 Baseline Sep-07 (µg/L)	7th Event Nov-07 (µg/L)		8th Event May-08 (µg/L)		9th Event Nov-08 (µg/L)		10th Event May-09 (µg/L)		11th Event Nov-09 (µg/L)		12th Event May-10 (µg/L)			
MW-1A	B	2.0	U	0.7	U	1.0	U	0.18	U	0.077	U	0.06	U	0.06	I	MW-1A through MW-15A are monitoring wells constructed as part of the Phase 1 development	NA		NA		NA		0.2	U	0.2	U	0.4	U		
MW-2A	B	2.0	U	0.7	U	1.0	U	0.18	U	0.077	U	0.06	U	0.06	U		0.077	U	0.08	U	0.2	U	0.2	U	0.2	U	0.4	U		
MW-3A	B	2.0	U	0.7	U	1.0	U	0.18	U	0.077	U	0.06	U	0.06	U		0.077	U	0.08	U	0.2	U	0.2	U	0.2	U	0.4	U		
MW-4A	B	2.0	U	0.7	U	1.0	U	0.18	U	0.077	U	0.09	I	0.06	U		0.077	U	0.08	U	0.2	U	0.2	U	0.2	U	0.4	U		
MW-5A	B	2.0	U	0.7	U	1.0	U	0.18	U	0.077	U	0.06	U	0.06	I		0.077	U	0.08	U	0.2	U	0.2	U	0.2	U	0.4	U		
MW-6A	B	2.0	U	0.7	U	1.0	U	0.18	U	0.077	U	0.06	U	0.09	I		NA		NA		NA		0.2	U	0.2	U	0.4	U		
MW-7A	D	2.0	U	0.7	U	1.0	U	0.18	U	0.077	U	0.06	U	0.06	I		0.077	U	0.08	U	0.2	U	0.2	U	0.2	U	0.4	U		
MW-8A	D	2.0	U	0.7	U	1.0	U	0.18	U	0.077	U	0.09	I	0.07	I		0.15	U	0.08	U	0.2	U	0.2	U	0.2	U	0.4	U		
MW-9A	D	2.0	U	0.7	U	1.0	U	0.18	U	0.077	U	0.07	I	0.10	I		0.15	U	0.08	U	0.2	U	0.2	U	0.2	U	0.4	U		
MW-10A	D	2.0	U	0.7	U	1.0	U	0.18	U	0.077	U	0.11	I	0.23	I		0.15	U	0.08	U	0.2	U	0.2	U	0.2	U	0.4	U		
MW-11A	D	2.0	U	0.7	U	1.0	U	0.18	U	0.077	U	0.06	U	0.06	U		0.077	U	0.1	U	0.2	U	0.2	U	0.2	U	0.4	U		
MW-12A	D	2.0	U	0.7	U	1.0	U	0.18	U	0.077	U	0.06	U	0.48	I		0.077	U	0.08	U	0.2	U	0.2	U	0.2	U	0.4	U		
MW-13A	D	2.0	U	0.7	U	1.0	U	0.18	U	0.077	U	0.13		0.06	U		0.077	U	0.08	U	0.2	U	0.2	U	0.2	U	0.4	U		
MW-14A	D	2.0	U	0.7	U	1.0	U	0.18	U	0.077	U	0.06	U	0.43	I		0.077	U	0.08	U	0.2	U	0.2	U	0.2	U	0.4	U		
MW-15A	D	2.0	U	0.7	U	1.0	U	0.18	U	0.077	U	0.06	U	0.06	I	MW-14A & MW-15A were abandoned in July 2007														
MW-16A	D	MW- 16A through MW-23A were constructed as part of the Phases 2 and 3 development in Sep 2007														0.077	U	0.1	I	0.08	U	0.2	U	0.2	U	0.2	U	0.4	U	
MW-17A	D															0.077	U	0.077	U	0.08	U	0.2	U	NA		NA		NA		
MW-18A	D															0.077	U	0.077	U	0.08	U	0.2	U	NA		NA		NA		
MW-19A	D															0.077	U	0.077	U	0.08	U	0.2	I	0.2	U	0.2	U	0.4	U	
MW-20A	D															0.077	U	0.077	U	0.08	U	0.2	U	NA		NA		NA		
MW-21A	D															0.077	U	0.077	U	0.08	U	0.2	U	NA		NA		NA		
MW-22A	B															0.077	U	0.077	U	0.08	U	0.2	U	NA		NA		NA		
MW-23A	B															0.077	U	0.091	I	0.08	U	0.2	U	0.2	U	0.2	U	0.4	U	
MW-1B	B	2.0	U	0.7	U	1.0	U	0.2	U	0.077	U	0.06	U	0.06	U	MW-1A through MW-15A are monitoring wells constructed as part of the Phase 1 development	NA		NA		NA		0.2	U	NA		0.4	U		
MW-2B	B	2.0	U	0.7	U	1.0	U	0.2	U	0.077	U	0.45	I	0.06	U		0.077	U	0.08	U	0.2	U	0.2	U	NA		0.4	U		
MW-3B	B	2.0	U	0.7	U	1.0	U	0.2	U	0.077	U	0.06	U	0.06	U		0.077	U	0.08	U	0.2	U	0.2	U	NA		0.4	U		
MW-4B	B	2.0	U	0.7	U	1.0	U	0.2	U	0.077	U	0.06	U	0.06	U		0.077	U	0.08	U	0.2	U	0.2	U	NA		0.4	U		
MW-5B	B	2.0	U	0.7	U	1.0	U	0.2	U	0.077	U	0.06	U	0.06	U		0.077	U	0.08	U	0.2	U	0.2	U	NA		0.4	U		
MW-6B	B	2.0	U	0.7	U	1.0	U	0.2	U	0.077	U	0.06	U	0.35	I		NA		NA		NA		0.2	U	NA		0.4	U		
MW-7B	D	2.0	U	0.7	U	1.0	U	0.2	U	0.077	U	0.06	U	0.09	I		0.077	U	0.08	U	0.2	U	0.2	U	NA		0.4	U		
MW-8B	D	2.0	U	0.7	U	1.0	U	0.2	U	0.077	U	0.13	I	0.30	I		0.15	U	0.08	U	0.2	U	0.2	U	NA		0.4	U		
MW-9B	D	2.0	U	0.7	U	1.0	U	0.2	U	0.077	U	0.07	I	0.12	I		0.15	U	0.08	U	0.2	U	0.2	U	NA		0.4	U		
MW-10B	D	2.0	U	0.7	U	1.0	U	0.2	U	0.077	U	0.07	I	0.10	I		0.15	U	0.08	U	0.2	U	0.2	U	NA		0.4	U		
MW-11B	D	2.0	U	0.7	U	1.0	U	0.2	U	0.077	U	0.06	U	0.06	U		0.077	U	0.08	U	0.2	U	0.2	U	NA		0.4	U		
MW-12B	D	2.0	U	0.7	U	1.0	U	0.2	U	0.077	U	0.06	U	0.31	I		0.077	U	0.08	U	0.2	U	0.2	U	NA		0.4	U		
MW-13B	D	2.0	U	0.7	U	1.0	U	0.2	U	0.077	U	0.06	U	0.08	I		0.077	U	0.08	U	0.2	U	0.2	U	NA		0.4	U		
MW-14B	D	2.0	U	0.7	U	1.0	U	0.2	U	0.077	U	0.06	U	0.06	U		MW-14B & MW-15B were abandoned in July 2007													
MW-15B	D	2.0	U	0.7	U	1.0	U	0.2	U	0.077	U	0.06	U	0.08	I	MW- 16B through MW-23B were constructed as part of the Phases 2 and 3 development in Sep 2007	0.077	U	0.15	U	0.08	U	0.2	U	0.2	U	0.2	U	0.4	U
MW-16B	D	0.077	U	0.15	U	0.08	U	0.2	U	NA		NA																		
MW-17B	D	0.077	U	0.15	U	0.08	U	0.2	U	NA		NA																		
MW-18B	D	0.077	U	0.077	U	0.14	I	0.2	U	NA		NA																		
MW-19B	D	0.077	U	0.077	U	0.08	U	0.2	U	0.2	U	NA	U																	
MW-20B	D	0.1	I	0.077	U	0.08	U	0.2	U	NA		NA																		
MW-21B	D	0.4	I	0.14	I	0.08	U	0.2	U	NA		NA																		
MW-22B	B	0.5	I	0.077	U	0.08	U	0.2	U	NA		NA																		
MW-23B	B	0.077	U	0.077	U	0.08	U	0.2	U	0.2	U	0.4	U																	
MW-1C	B	2.0	U	0.7	U	1.0	U	0.2	U	0.077	U	0.06	U	0.06	U	MW-1A through MW-15A are monitoring wells constructed as part of the Phase 1 development	NA		NA		NA		NA		0.2	U	NA			
MW-2C	B	2.0	U	0.7	U	1.0	U	0.2	U	0.077	U	0.12	I	0.06	U		0.077	U	0.08	U	0.2	U	NA		0.2	U	NA			
MW-3C	B	2.0	U	0.7	U	1.0	U	0.2	U	0.077	U	0.06	U	0.06	U		0.077	U	0.08	U	0.2	U	NA		0.2	U	NA			
MW-4C	B	2.0	U	0.7	U	1.0	U	0.2	U	0.077	U	0.06	U	0.06	U		0.077	U	0.08	U	0.2	U	NA		0.2	U	NA			
MW-5C	B	2.0	U	0.7	U	1.0	U	0.2	U	0.077	U	0.06	U	0.06	U		0.077	U	0.08	U	0.2	U	NA		0.2	U	NA			
MW-6C	B	2.0	U	0.7	U	1.0	U	0.2	U	0.077	U	0.06	U	0.06	U		0.077	U	0.08	U	NA		NA		0.2	U	NA			
MW-7C	D	2.0	U	0.7	U	1.0	U	0.2	U	0.077	U	0.06	U	0.23	I		0.15	U	0.08	U	0.2	U	NA		0.2	U	NA			
MW-8C	D	2.0	U	0.7	U	1.0	U	0.2	U	0.077	U	0.09	I	0.10	I		0.15	U	0.08	U	0.2	U	NA		0.2	U	NA			
MW-9C	D	2.0	U	0.7	U	1.0	U	0.2	U	0.077	U	0.06	I	0.06	I		0.15	U	0.08	U	0.2	U	NA		0.2	U	NA			
MW-10C	D	2.0	U	0.7	U	1.0	U	0.2	U																					

Well ID	Type	PH 1 Baseline Jan-04 (µg/L)		1st Event Jul-04 (µg/L)		2nd Event Jan-05 (µg/L)		3rd Event Jul-05 (µg/L)		4th Event Feb-06 (µg/L)		5th Event Jul-06 (µg/L)		6th Event Feb-07 (µg/L)		PH 2&3 Baseline Sep-07 (µg/L)		7th Event Nov-07 (µg/L)		8th Event May-08 (µg/L)		9th Event Nov-08 (µg/L)		10th Event May-09 (µg/L)		11th Event Nov-09 (µg/L)		12th Event May-10 (µg/L)		
MW-1A	B	1.0	U	0.98	U	0.98	U	1.0	U	0.19	U	0.19	U	0.19	U	MW-1A through MW-15A are monitoring wells constructed as part of the Phase 1 development	NA		NA		NA		0.22	U	0.22	U	4.8			
MW-2A	B	1.0	U	0.98	U	0.98	U	1.0	U	0.19	U	0.19	U	0.19	U		0.19	U	0.47	U	0.12	U	0.22	U	0.22	U	0.52	U		
MW-3A	B	1.0	U	0.98	U	0.98	U	1.0	U	0.19	U	0.19	U	0.19	U		0.19	U	0.47	U	0.12	U	0.22	U	0.22	U	0.52	U		
MW-4A	B	1.0	U	0.98	U	0.98	U	1.0	U	0.19	U	0.19	U	0.19	U		0.19	U	0.47	U	0.12	U	0.22	U	0.22	U	0.52	U		
MW-5A	B	1.0	U	0.98	U	0.98	U	1.0	U	0.19	U	0.19	U	0.19	U		0.19	U	0.47	U	0.12	U	0.22	U	0.22	U	0.52	U		
MW-6A	B	1.0	U	0.98	U	0.98	U	1.0	U	0.19	U	0.19	U	0.19	U		0.19	U	NA		NA		0.22	U	0.22	U	0.52	U		
MW-7A	D	1.0	U	0.98	U	0.98	U	1.0	U	0.19	U	0.19	U	0.19	U		0.19	U	NA		0.47	U	0.12	U	0.22	U	0.52	U		
MW-8A	D	1.0	U	0.98	U	0.98	U	1.0	U	0.19	U	0.19	U	0.19	U		0.19	U	0.19	U	0.12	U	0.22	U	0.22	U	0.303	I		
MW-9A	D	1.0	U	0.98	U	0.98	U	1.0	U	0.19	U	0.19	U	0.19	U		0.19	U	2.2		3.4		7.5		0.23	I	5.4	U	14.1	
MW-10A	D	1.0	U	0.98	U	0.98	U	1.0	U	0.19	U	0.19	U	0.19	U		0.19	U	0.19	U	0.47	U	0.94	I	0.37	I	0.95		0.52	U
MW-11A	D	1.0	U	0.98	U	0.98	U	1.0	U	0.19	U	0.19	U	0.19	U		0.19	U	0.54	I	3.0		0.59	I	0.26	I	0.22	U	0.68	I
MW-12A	D	1.0	U	0.98	U	0.98	U	1.0	U	0.19	U	0.19	U	0.19	U		0.19	U	0.19	U	0.47	U	0.12	U	0.22	U	0.22	U	0.52	U
MW-13A	D	1.0	U	0.98	U	0.98	U	1.0	U	0.19	U	0.19	U	0.19	U		0.19	U	0.21	I	0.47	U	0.12	U	0.22	U	0.22	U	0.52	U
MW-14A	D	1.0	U	0.98	U	0.98	U	1.0	U	0.19	U	0.19	U	0.19	U		MW-14A & MW-15A were abandoned in July 2007													
MW-15A	D	1.0	U	0.98	U	0.98	U	1.0	U	0.19	U	0.19	U	0.19	U															
MW-16A	D	MW- 16A through MW-23A were constructed as part of the Phases 2 and 3 development in Sep 2007														0.19	U	0.19	U	0.47	U	0.12	U	0.22	U	0.22	U	0.52	U	
MW-17A	D															0.19	U	0.19	U	0.47	U	0.12	U	NA		NA		NA		
MW-18A	D															0.19	U	0.19	U	0.47	U	0.12	U	NA		NA		NA		
MW-19A	D															0.19	U	0.19	U	0.47	U	0.12	U	0.22	U	0.22	U	0.52	U	
MW-20A	D															0.19	U	0.19	U	0.47	U	0.12	U	NA		NA		NA		
MW-21A	D															0.19	U	0.19	U	0.47	U	0.12	U	NA		NA		NA		
MW-22A	B															0.19	U	0.19	U	0.47	U	0.12	U	NA		NA		0.52	U	
MW-23A	B															0.19	U	0.19	U	0.47	U	0.12	U	0.22	U	0.22	U	0.52	U	
MW-1B	B	1.0	U	0.98	U	0.98	U	1.0	U	0.19	U	0.19	U	0.19	U	MW-1A through MW-15A are monitoring wells constructed as part of the Phase 1 development	NA		NA		NA		0.22	U	NA		0.52	U		
MW-2B	B	1.0	U	0.98	U	0.98	U	1.0	U	0.19	U	0.19	U	0.19	U		0.19	U	0.47	U	0.12	U	0.22	U	NA		0.52	U		
MW-3B	B	1.0	U	0.98	U	0.98	U	1.0	U	0.19	U	0.19	U	0.19	U		0.19	U	0.47	U	0.12	U	0.22	U	NA		0.52	U		
MW-4B	B	1.0	U	0.98	U	0.98	U	1.0	U	0.19	U	0.19	U	0.19	U		0.19	U	0.47	U	0.12	U	0.22	U	NA		0.52	U		
MW-5B	B	1.0	U	0.98	U	0.98	U	1.0	U	0.19	U	0.19	U	0.19	U		0.19	U	0.47	U	0.12	U	0.22	U	NA		0.52	U		
MW-6B	B	1.0	U	0.98	U	0.98	U	1.0	U	0.19	U	0.19	U	0.19	U		0.19	U	NA		NA		0.22	U	NA		0.52	U		
MW-7B	D	1.0	U	0.98	U	0.98	U	1.0	U	0.19	U	0.19	U	0.19	U		0.19	U	0.47	U	0.12	U	0.22	U	NA		0.52	U		
MW-8B	D	1.0	U	0.98	U	0.98	U	1.0	U	0.19	U	0.19	U	0.19	U		0.19	U	0.47	U	0.12	U	0.22	U	NA		0.52	U		
MW-9B	D	1.0	U	0.98	U	0.98	U	1.0	U	0.19	U	0.19	U	0.19	U		0.19	U	0.47	U	0.12	U	0.22	U	NA		0.52	U		
MW-10B	D	1.0	U	0.98	U	0.98	U	1.0	U	0.19	U	0.19	U	0.19	U		0.19	U	0.47	U	0.12	U	0.22	U	NA		0.52	U		
MW-11B	D	1.0	U	0.98	U	0.98	U	1.0	U	0.19	U	0.19	U	0.19	U		0.19	U	0.19	I	0.47	U	0.12	U	0.22	U	NA		0.52	U
MW-12B	D	1.0	U	0.98	U	0.98	U	1.0	U	0.19	U	0.19	U	0.19	U		0.19	U	0.19	U	0.47	U	0.12	U	0.22	U	NA		0.52	U
MW-13B	D	1.0	U	0.98	U	0.98	U	1.0	U	0.19	U	0.19	U	0.19	U		0.19	U	0.19	U	0.47	U	0.12	U	0.22	U	NA		0.52	U
MW-14B	D	1.0	U	0.98	U	0.98	U	1.0	U	0.19	U	0.19	U	0.19	U		MW-14B & MW-15B were abandoned in July 2007													
MW-15B	D	1.0	U	0.98	U	0.98	U	1.0	U	0.19	U	0.19	U	0.19	U															
MW-16B	D	MW- 16B through MW-23B were constructed as part of the Phases 2 and 3 development in Sep 2007														0.19	U	0.19	U	0.47	U	0.12	U	0.22	U	0.22	U	0.52	U	
MW-17B	D															0.19	U	0.19	U	0.47	U	0.12	U	NA		NA		NA	U	
MW-18B	D															0.19	U	0.19	U	0.47	U	0.12	U	NA		NA		NA	U	
MW-19B	D															0.19	U	0.19	U	0.47	U	0.12	U	0.22	U	0.52	U			
MW-20B	D															0.19	U	0.19	U	0.47	U	0.12	U	NA		NA	U			
MW-21B	D															0.19	U	0.19	U	0.47	U	0.12	U	NA		NA	U			
MW-22B	B															0.19	U	0.19	U	0.47	U	0.12	U	NA		NA	U			
MW-23B	B															0.19	U	0.19	U	0.47	U	0.12	U	0.22	U	0.52	U			
MW-1C	B	1.0	U	0.98	U	0.98	U	1.0	U	0.19	U	0.19	U	0.19	U	MW-1A through MW-15A are monitoring wells constructed as part of the Phase 1 development	NA		NA		NA		NA		0.22	U	NA			
MW-2C	B	1.0	U	0.98	U	0.98	U	1.0	U	0.19	U	0.19	U	0.19	U		0.19	U	0.47	U	0.12	U	NA		0.22	U	NA			
MW-3C	B	1.0	U	0.98	U	0.98	U	1.0	U	0.19	U	0.19	U	0.19	U		0.19	U	0.47	U	0.12	U	NA		0.22	U	NA			
MW-4C	B	1.0	U	0.98	U	0.98	U	1.0	U	0.19	U	0.19	U	0.19	U		0.19	U	0.47	U	0.12	U	NA		0.22	U	NA			
MW-5C	B	1.0	U	0.98	U	0.98	U	1.0	U	0.19	U	0.19	U	0.19	U		0.19	U	0.47	U	0.12	U	NA		0.22	U	NA			
MW-6C	B	1.0	U	0.98	U	0.98	U	1.0	U	0.19	U	0.19	U	0.19	U		0.19	U	NA		NA		NA		0.22	U	NA			
MW-7C	D	1.0	U	0.98	U	0.98	U	1.0	U	0.19	U	0.19	U	0.19	U		0.19	U	0.47	U	0.12	U	NA		0.22	U	NA			
MW-8C	D	1.0	U	0.98	U	0.98	U	1.0	U	0.19	U	0.19	U	0.19	U		0.19	U	0.47	U	0.12	U	NA		0.22	U	NA			
MW-9C	D	1.0	U	0.98	U	0.98	U	1.0	U	0.19	U	0.19	U	0.19	U		0.19	U	0.47	U	0.12	U	NA		0.22	U	NA			

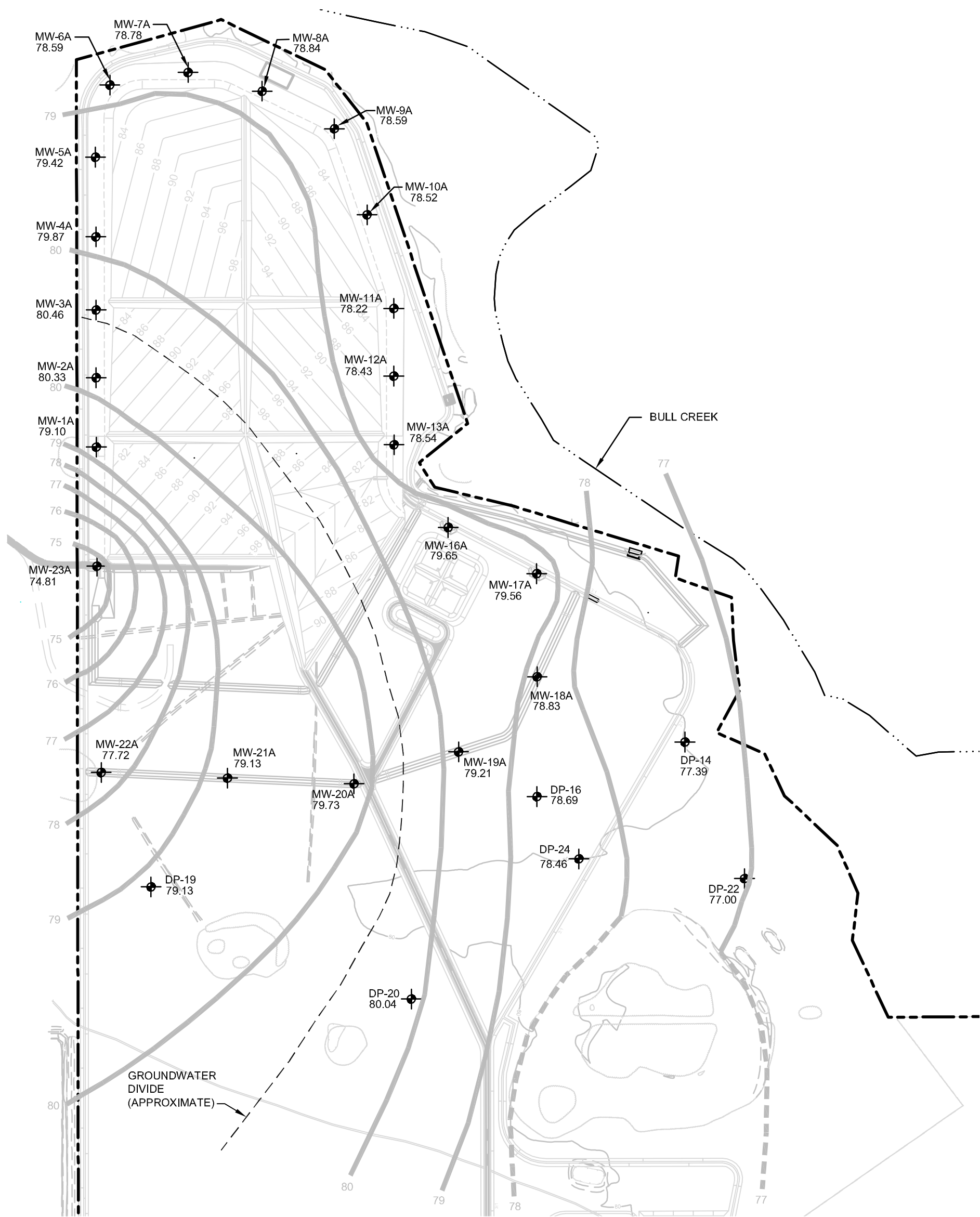
Well ID	Type	PH 1 Baseline Jan-04 (µg/L)	1st Event Jul-04 (µg/L)	2nd Event Jan-05 (µg/L)	3rd Event Jul-05 (µg/L)	4th Event Feb-06 (µg/L)	5th Event Jul-06 (µg/L)	6th Event Feb-07 (µg/L)	PH 2&3 Baseline Sep-07 (µg/L)	7th Event Nov-07 (µg/L)	8th Event May-08 (µg/L)	9th Event Nov-08 (µg/L)	10th Event May-09 (µg/L)	11th Event Nov-09 (µg/L)	12th Event May-10 (µg/L)	
MW-1A	B	50 U	5.9 U	5.9 U	2.7 I	6.7 I	2.7 i	1.7 U	MW-1A through MW-15A are monitoring wells constructed as part of the Phase 1 development	NA	NA	NA	4 U	4 U	3 U	
MW-2A	B	50 U	5.9 U	5.9 U	0.6 U	8.6 I	2 I	6.3 I		2.1 I	8.1 I	4 U	5 I	7 U	3 U	
MW-3A	B	50 U	5.9 U	5.9 U	3.6 I	6.5 I	23	2.3 I		5.6 I	4 U	126	4 U	4 U	3 U	
MW-4A	B	50 U	5.9 U	5.9 U	1.1 I	5.4 I	1.7 U	2.2 I		3.5 I	4 U	11	4 U	4 U	3 U	
MW-5A	B	100 U	5.9 U	41	1.2 I	9.6 I	1.7 U	2.9 I		3.5 I	7.6 I	4 U	4 U	4 U	3 U	
MW-6A	B	50 U	5.9 U	5.9 U	0.6 U	4.3 I	1.7 U	1.9 I		NA	NA	NA	4 U	4 U	3 U	
MW-7A	D	50 U	22	5.9 U	1.2 I	5.4 I	25	75		2.9 I	5.3 I	4 U	4 U	4 U	3 U	
MW-8A	D	50 U	5.9 U	5.9 U	0.6 U	16	1.7 U	2.4 I		5.0 I	4 U	4 U	4 U	4 U	3 U	
MW-9A	D	50 U	5.9 U	5.9 U	0.6 U	11	7.3 I	4.9 I		6.7 I	5.1 I	4 U	4 U	4 U	3 I	
MW-10A	D	50 U	5.9 U	5.9 U	0.6 U	9.7 I	2.2 I	3.2 I		9.3 I	4 U	7 I	4 U	4 U	3 U	
MW-11A	D	50 U	5.9 U	5.9 U	0.6 U	6.7 I	1.7 U	2.1 I		2.2 I	4 U	4 U	4 U	4 U	3 U	
MW-12A	D	50 U	5.9 U	5.9 U	0.6 U	4.9 I	2	3.3 I		3.0 I	4 U	4 U	4 U	4 U	3 U	
MW-13A	D	50 U	5.9 U	5.9 U	0.6 U	6.1 I	2.9	1.9 I		1.7 U	4 U	4 U	4 U	30 U	19 U	
MW-14A	D	50 U	26	320	45.4 I	750	49	25		MW-14A & MW-15A were abandoned in July 2007						
MW-15A	D	50 U	5.9 U	15 I	0.6 U	4.9 I	2.7 i	1.7 U								
MW-16A	D	MW- 16A through MW-23A were constructed as part of the Phases 2 and 3 development in Sep 2007								1.7 U	2.0 I	4 U	5 I	4 U	4 U	3 U
MW-17A	D									1.7 U	1.7 U	4.1 I	4 I	NA	NA	NA
MW-18A	D									24	1.7 U	4 U	4 U	NA	NA	NA
MW-19A	D									14	2.0 I	5.2 I	7 I	5 I	4 U	3 U
MW-20A	D									6.7 I	1.7 U	4.8 I	5 I	NA	NA	NA
MW-21A	D									2.4 I	1.7 I	4 U	4 U	NA	NA	NA
MW-22A	B									2.6 I	1.7 U	4 U	8 I	NA	NA	NA
MW-23A	B									1.7 U	2.0 I	4 U	4 U	5 I	4 U	3 U
MW-1B	B	100 U	5.9 U	6.1 I	0.6 U	9 I	2.9 i	2.3 I	MW-1A through MW-15A are monitoring wells constructed as part of the Phase 1 development	NA	NA	NA	4 U	NA	3 U	
MW-2B	B	100 U	9.3 I	10 I	0.6 U	7.4 I	8.5 I	8.2 I		1.7 U	4 U	4 U	4 U	NA	3 I	
MW-3B	B	100 U	23	5.9 U	0.6 U	5.7 I	1.7 U	2.4 I		1.7 U	4 U	4 U	4 U	NA	3 U	
MW-4B	B	100 U	5.9 U	5.9 U	0.6 U	6.1 I	15	2.4 I		2.7 I	4 U	4 I	4 U	NA	3 U	
MW-5B	B	100 U	7.7 I	5.9 U	0.6 U	4.3 I	1.7 U	1.7 U		3.5 I	4 U	15	4 U	NA	3 U	
MW-6B	B	100 U	7.3 I	36	0.6 U	5.4 I	2.1 I	4.5 I		NA	NA	NA	4 U	NA	3 U	
MW-7B	D	100 U	21	5.9 U	0.6 U	5.6 I	9.8 I	3.9 I		2.5 I	4 U	4 U	4 U	NA	3 U	
MW-8B	D	100 U	11 I	5.9 U	1.5 I	20	8.9 I	6.3 I		4.2 I	4 U	4 U	4 U	NA	3 I	
MW-9B	D	100 U	7.2 I	5.9 U	1.9 I	17	10	6.8 I		6.1 I	4 U	4 U	4 U	NA	3 U	
MW-10B	D	100 U	8.3 I	5.9 U	0.6 U	9.7 I	1.7 U	3.7 I		3.4 I	4 U	4 U	4 U	NA	3 U	
MW-11B	D	50 U	9.2 I	5.9 U	0.6 U	7.4 I	2.5	3.5 I		4.2 I	4 U	4 U	4 U	NA	3 U	
MW-12B	D	100 U	18 I	6 I	0.6 U	7.5 I	19	17		7.8 I	4 U	4 U	4 U	NA	3 U	
MW-13B	D	100 U	5.9 U	5.9 U	0.6 U	26	12	26		6.2 I	4 U	4 U	4 U	NA	3 U	
MW-14B	D	100 U	6.9 I	5.9 U	0.6 U	6.1 I	1.7 U	1.7 U		MW-14B & MW-15B were abandoned in July 2007						
MW-15B	D	50 U	5.9 U	5.9 U	0.6 U	4.2 I	16	1.7 U								
MW-16B	D	MW- 16B through MW-23B were constructed as part of the Phases 2 and 3 development in Sep 2007								1.7 U	11.0 I	4 U	4 U	4 U	4 U	3 U
MW-17B	D									3 I	4.8 I	5 I	4 I	NA	NA	NA
MW-18B	D									6.5 I	2.5 I	4 U	4 U	NA	NA	NA
MW-19B	D									9 I	1.8 I	4 U	4 U	NA	3 U	
MW-20B	D									6.8 I	3.0 I	4 U	5 I	NA	NA	
MW-21B	D									5.1 I	2.6 I	4 U	4 U	NA	NA	
MW-22B	B									63	3.6 I	4 U	4 U	NA	NA	
MW-23B	B									2.7 I	1.7 U	4 U	9 I	4 U	3 U	
MW-1C	B	100 U	5.9 U	28	1.3 I	5.6 I	8.1 i	2.4 I	MW-1A through MW-15A are monitoring wells constructed as part of the Phase 1 development	NA	NA	NA	NA	4 U	NA	
MW-2C	B	100 U	5.9 U	5.9 U	0.6 U	5.2 I	8.5 I	2.3 I		1.7 U	8.8 I	4 U	NA	4 U	NA	
MW-3C	B	100 U	5.9 U	5.9 U	0.6 U	12	1.7 U	1.9 I		1.7 U	5.3 I	3910	NA	4 U	NA	
MW-4C	B	100 U	45	5.9 U	1.8 I	6.6 I	6 I	5.2 I		2.6 I	4 U	4 I	NA	4 U	NA	
MW-5C	B	100 U	7 I	5.9 U	0.6 U	6.4 I	1.7 U	2.7 I		4.0 I	4 U	4 U	NA	4 U	NA	
MW-6C	B	100 U	6.7 I	13 I	3.7 I	61	1.7 U	3.1 I		NA	NA	NA	NA	4 U	NA	
MW-7C	D	100 U	14 I	5.9 U	0.6 U	7.7 I	1.7 U	1.9 I		2.5 I	4 U	4 U	NA	4 U	NA	
MW-8C	D	100 U	5.9 U	5.9 U	1.1 I	7.9 I	4.6 I	3.9 I		5.7 I	4 U	4 U	NA	4 U	NA	
MW-9C	D	100 U	5.9 U	5.9 U	0.6 U	7.8 I	1.8 I	2.2 I		3.4 U	4 U	4 U	NA	4 U	NA	
MW-10C	D	100 U	5.9 U	5.9 U	0.6 U	7.1 I	33	7.1 I		4.1 I	4 U	4 U	NA	4 U	NA	
MW-11C	D	100 U	5.9 U	5.9 U	1.1 I	41	1.7 U	7.9 I		1.7 U	4 U	4 U	NA	4 U	NA	
MW-12C	D	100 U	8.9 I	5.9 U	0.6 U	6.9 I	1.7 U	2.1 I		1.7 U	4 U	4 U	NA	4 U	NA	
MW-13C	D	100 U	5.9 U	5.9 U	0.6 U	8.9 I	1.8	2 I		3.2 I	4 U	4 U	NA	4 U	NA	
MW-14C	D	50 U	5.9 U	5.9 U	4.7 I	9.2 I	4.5	4 I		MW-14C & MW-15C were abandoned in July 2007						
MW-15C	D	50 U	5.9 U	5.9 U	0.6 U	4 I	4.6 i	2.4 I								
MW-16C	D	MW- 16C through MW-23C were constructed as part of the Phases 2 and 3 development in Sep 2007								3.2 I	4.4 I	4 U	4 U	4 U	4 U	3 U
MW-17C	D									2.6 I	3.3 I	4 U	4 U	NA	NA	NA
MW-18C	D									33	3.0 I	4.4 I	4 U	NA	NA	NA
MW-19C	D									11	12.0	4 U	4 U	NA	NA	NA
MW-20C	D									8.7 I	5.3 I	7 I	5 I	NA	NA	NA
MW-21C	D									11	4.1 I	4.8 I	4 U	NA	NA	NA
MW-22C	B									3.9 I	2.6 I	4 U	6 I	NA	NA	NA
MW-23C	B									9.7 I	2.1 I	4 U	4 U	NA	NA	NA

Notes:
µg/L=micrograms per liter
U = Not detected at value represented
I = Value is estimated to be between method detection limit and practical quantitation limit.
NA = Not Analyzed
Well type: (B) Background well (D) Detection well
Constituent detections are shown in shaded cells (green color)
Constituent detections exceeding the GCTL are shown in shaded cells (tan color)
MW-14A, 14B, 14C and MW-15A, 15B, 15C were decommissioned on 10 July 2007

APPENDIX C

GROUNDWATER CONTOUR MAPS FOR THE 9th – 12th SEMI-ANNUAL WATER QUALITY EVENTS

9th MONITORING EVENT
J.E.D. SOLID WASTE MANAGEMENT FACILITY
WACS FACILITY ID 89455
"A"-ZONE (SHALLOW) WELLS - WATER LEVEL CONTOURS
FIGURE 1



LEGEND

-  76.27 MW-7A MONITORING WELL
GROUNDWATER ELEVATION*
-  75.85 DP-16 PIEZOMETER GROUNDWATER
ELEVATION*
-  76.5 GROUNDWATER CONTOUR

* WATER LEVEL MEASUREMENTS FROM
3 NOVEMBER 2008 SITE WIDE SURVEY

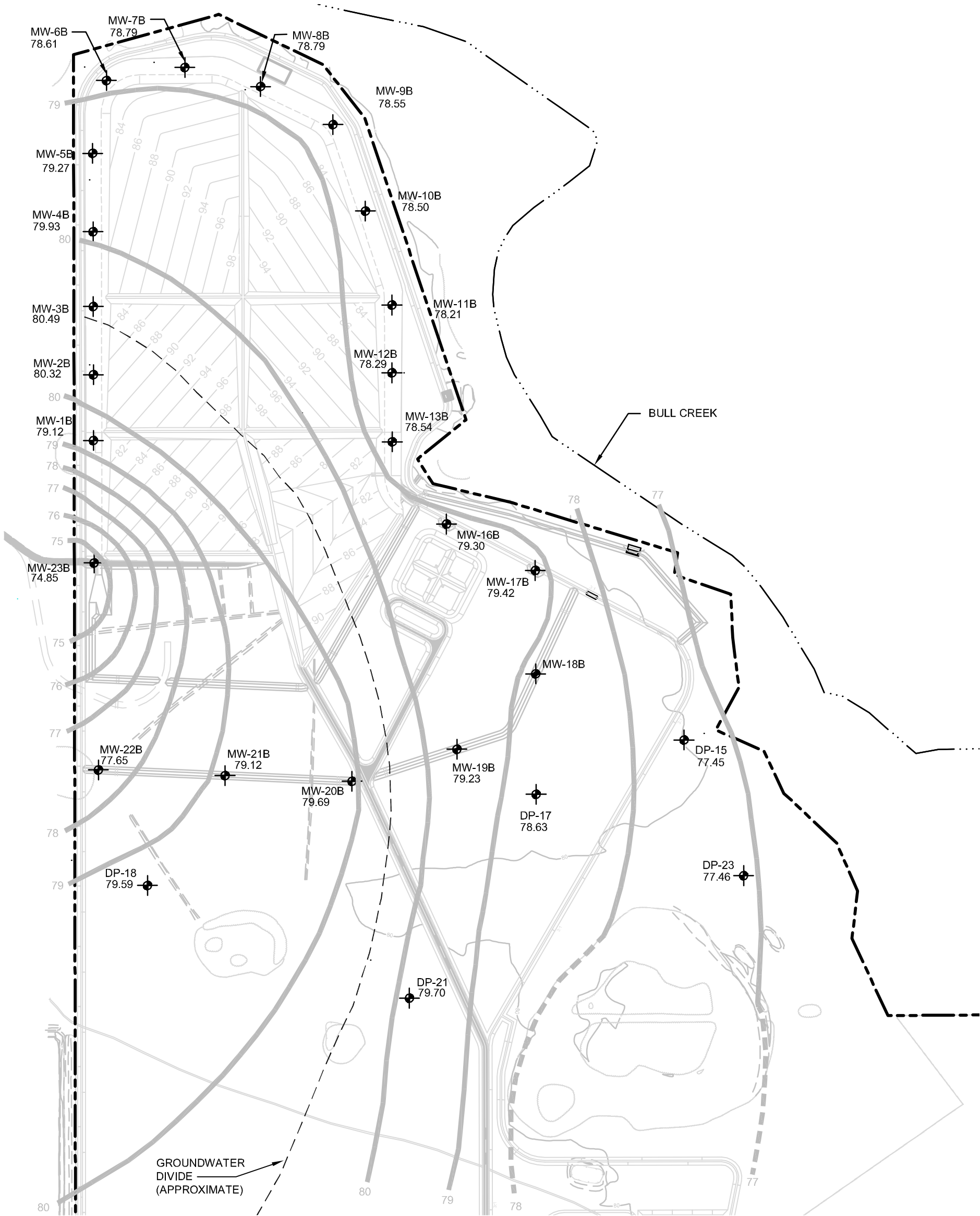


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DATE:	JANUARY 2009	FILE NO.	FQ1512.02F01
PROJECT NO.	FQ1512	FIGURE NO.	1

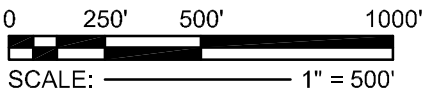
9th MONITORING EVENT
J.E.D. SOLID WASTE MANAGEMENT FACILITY
WACS FACILITY ID 89455
"B"-ZONE (INTERMEDIATE) WELLS - WATER LEVEL CONTOURS
FIGURE 2



LEGEND

- 76.26 MW-7B MONITORING WELL GROUNDWATER ELEVATION*
- 75.81 DP-17 PIEZOMETER GROUNDWATER ELEVATION*
- 76.5 GROUNDWATER CONTOUR

* WATER LEVEL MEASUREMENTS FROM 3 NOVEMBER 2008 SITE WIDE SURVEY



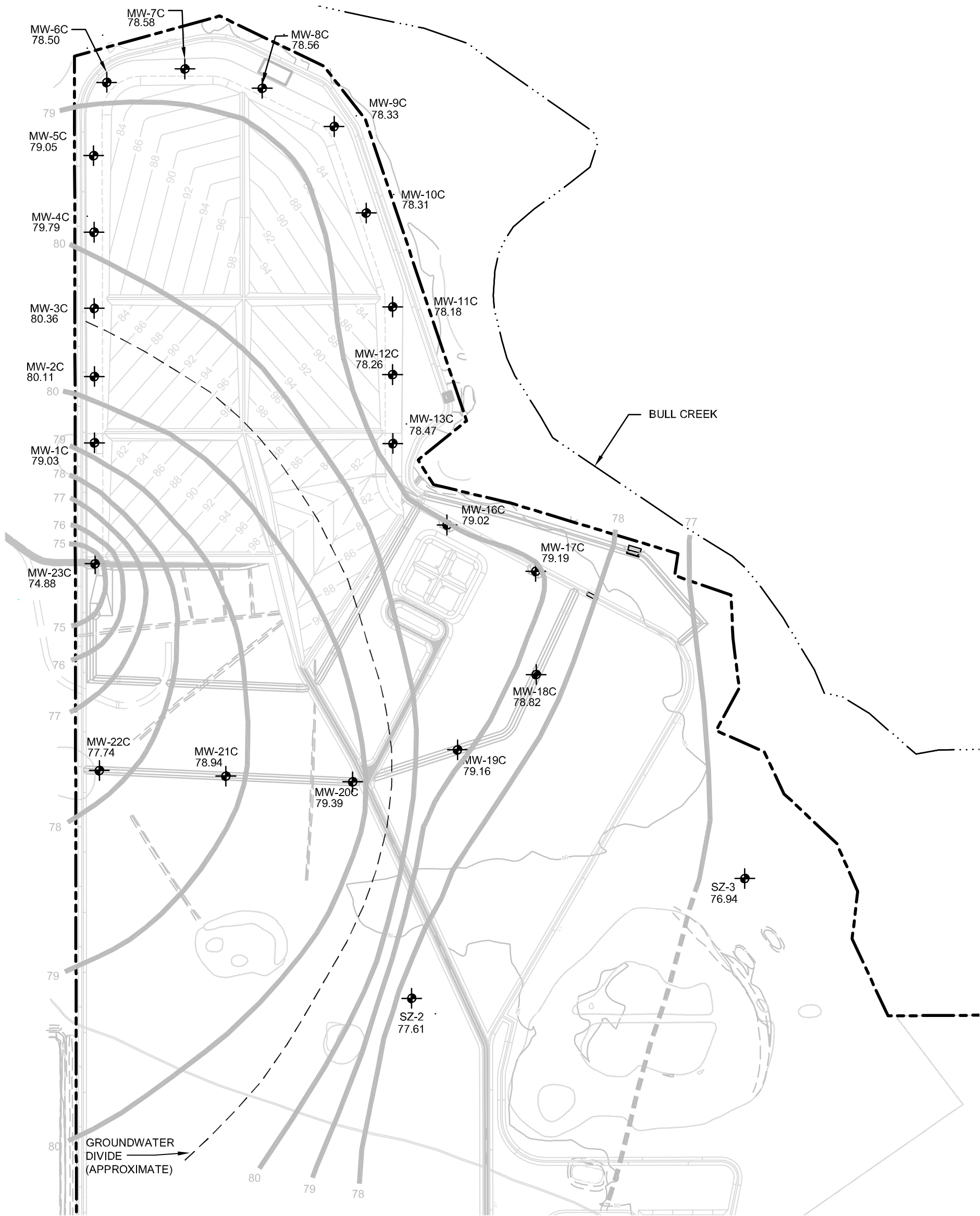
Geosyntec[®]
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TAMPA, FL

DATE:	JANUARY 2008	FILE NO.	FQ1512.02F02
PROJECT NO.	FQ1512	FIGURE NO.	2

I:_CADD (PROJECTS)\JUE.D\FIGURES\FQ1512\FQ1512.02F03.DWG (24 June 2008) cvickers

9th MONITORING EVENT
J.E.D. SOLID WASTE MANAGEMENT FACILITY
WACS FACILITY ID 89455
"C"-ZONE (DEEP) WELLS - WATER LEVEL CONTOURS
FIGURE 3



LEGEND

- 76.26
MW-7B
MONITORING WELL
GROUNDWATER ELEVATION*
- 75.81
DP-17
PIEZOMETER GROUNDWATER
ELEVATION*
- 76.5
GROUNDWATER CONTOUR

* WATER LEVEL MEASUREMENTS FROM
3 NOVEMBER 2008 SITE WIDE SURVEY



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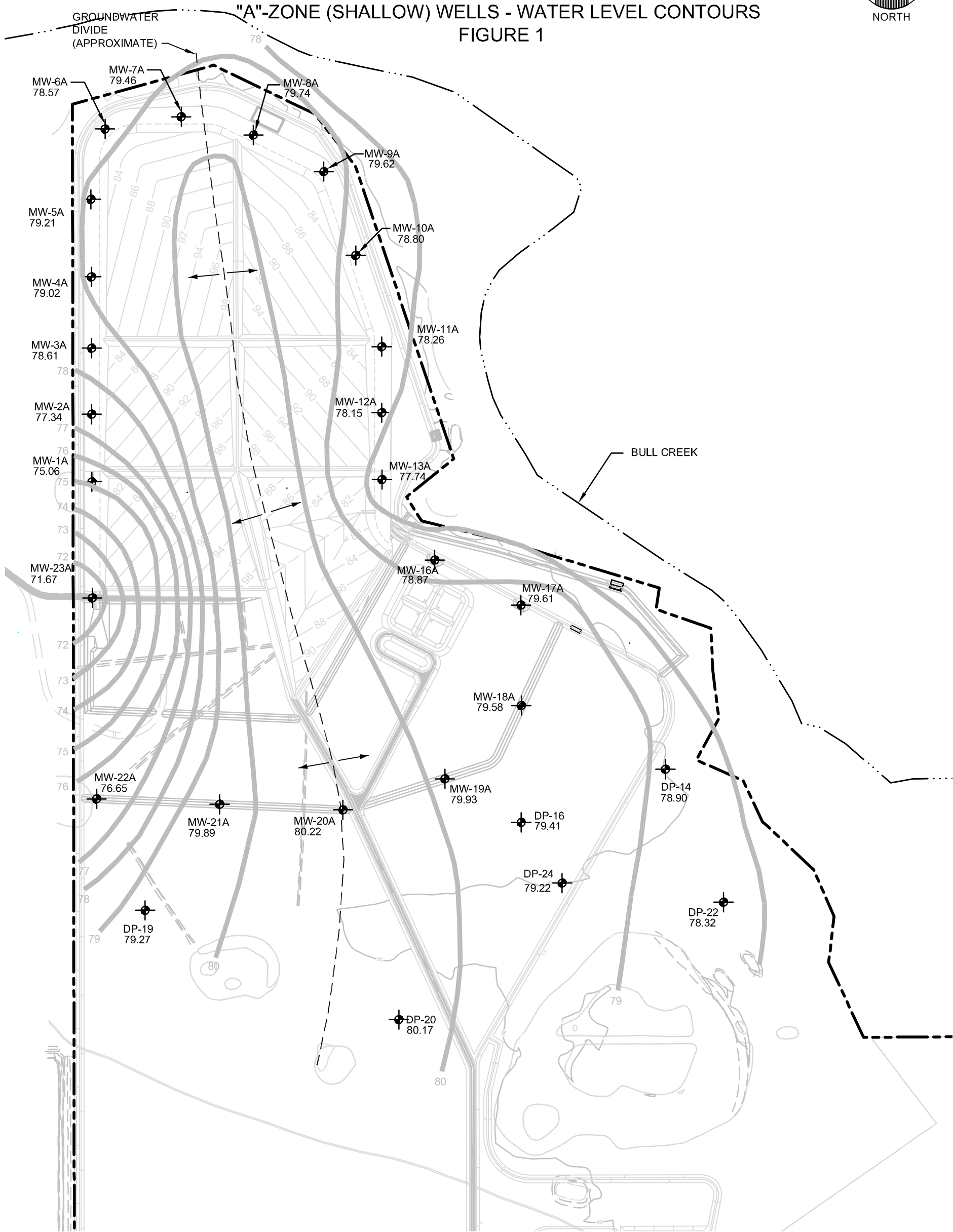
TAMPA, FL

DATE:	JANUARY 2008	FILE NO.	FQ1512.02F03
PROJECT NO.	FQ1512	FIGURE NO.	3

10th MONITORING (MAY 2009)
J.E.D. SOLID WASTE MANAGEMENT FACILITY
WACS FACILITY ID 89455



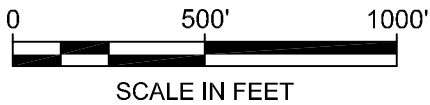
"A"-ZONE (SHALLOW) WELLS - WATER LEVEL CONTOURS
FIGURE 1



LEGEND

- 76.27
MW-7A
MONITORING WELL
GROUNDWATER ELEVATION*
- 75.85
DP-16
PIEZOMETER GROUNDWATER
ELEVATION*
- 80
GROUNDWATER CONTOUR

* WATER LEVEL MEASUREMENTS FROM
26 MAY 2009 SITE WIDE SURVEY



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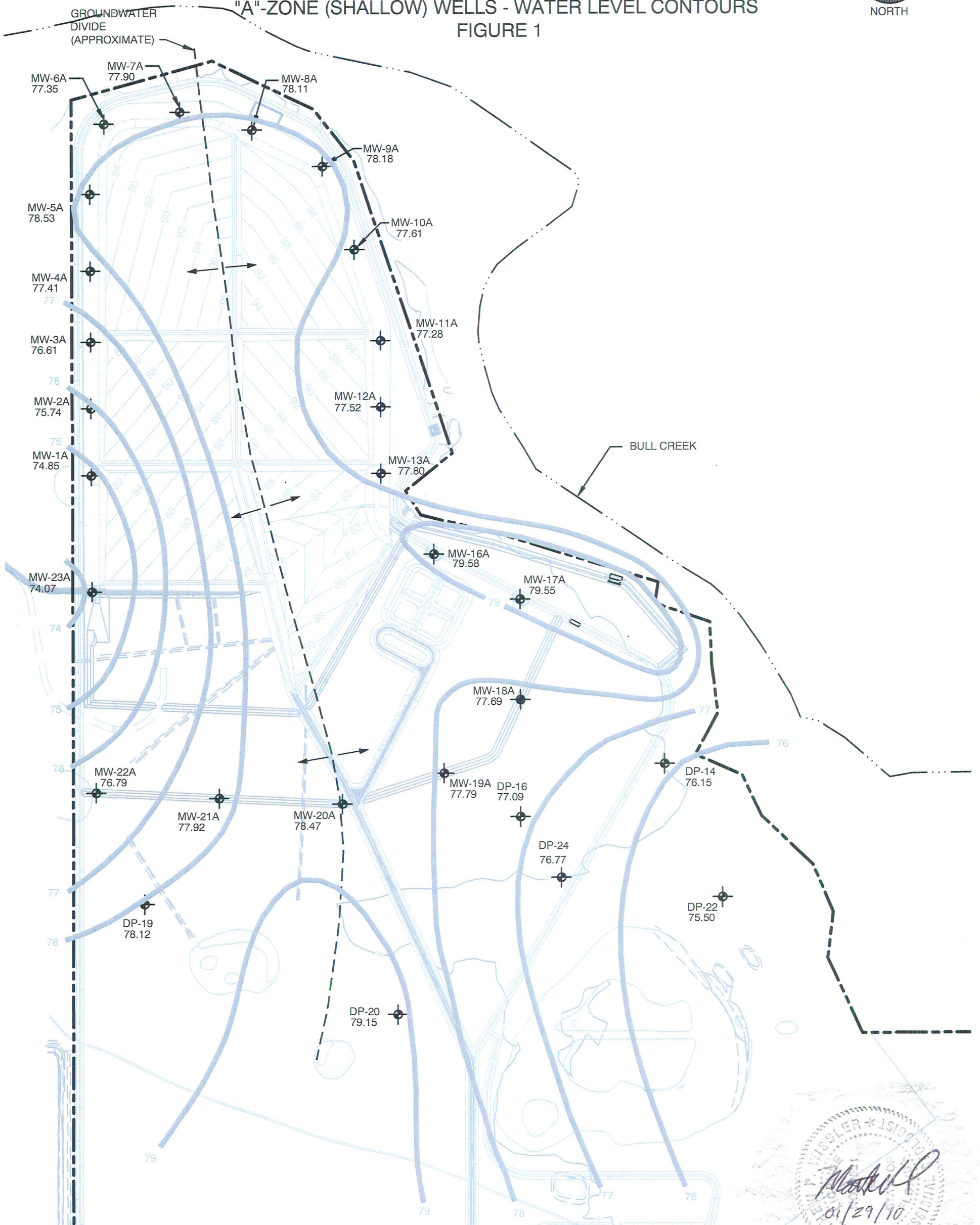
TAMPA, FL

DATE:	JULY 2009	FILE NO.	FQ1512.01F05
PROJECT NO.	FQ1512A	FIGURE NO.	1

11th MONITORING (NOVEMBER 2009)
J.E.D. SOLID WASTE MANAGEMENT FACILITY
WACS FACILITY ID 89455



"A"-ZONE (SHALLOW) WELLS - WATER LEVEL CONTOURS
FIGURE 1



LEGEND

- 77.90 MW-7A MONITORING WELL GROUNDWATER ELEVATION*
- 77.09 DP-16 PIEZOMETER GROUNDWATER ELEVATION*
- 80 GROUNDWATER CONTOUR

* WATER LEVEL MEASUREMENTS FROM 3 NOVEMBER 2009 SITE WIDE SURVEY

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TAMPA, FL

DATE:	DECEMBER 2009	FILE NO.	FQ1512A.02F01
PROJECT NO.	FQ1512A	FIGURE NO.	1



Legend

- Monitor Well Location
- Flow Lines
- Approximate Groundwater Divide May 2010
- Water Level Contours

NOTES:

AERIAL PHOTOGRAPH
PROVIDED BY BULLSEYE
DESIGN
(2009).
WATER LEVEL MEASUREMENTS
ACQUIRED 11 MAY 2010.
WACS FACILITY ID 89455

200 100 0 200 400 600 800
Feet
1 in = 600 ft

12th SEMI-ANNUAL MONITORING EVENT (MAY 2010) "A"-ZONE (SHALLOW) WELLS-WATER LEVEL CONTOURS

WASTE SERVICES OF FLORIDA, INC.
J.E.D. SOLID WASTE
1501 OMNI WAY
ST. CLOUD, FLORIDA



ENVIRONMENTAL PLANNING SPECIALISTS, INC.
CONSULTING ENGINEERS

FIGURE

1

TAMPA, FL

AUGUST 2010