2012 Annual Groundwater Monitoring Report

Titanium Metals Corporation Facility

Henderson, Nevada

Submitted to

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Prepared for

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2012 ANNUAL GROUNDWATER MONITORING REPORT
Titanium Metals Corporation Facility
Henderson, Nevada

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ABBREVIATIONS AND ACRONYMS

µg/L	Microgram per liter
BMI	Black Mountain Industrial
Broadbent	Broadbent & Associates, Inc.
BRC	Basic Remediation Company
CAB	Cation-anion balance
DVSR	Data validation summary report
EC	Electrical conductivity
ECA	Environmental conditions assessment
ECI	Environmental conditions investigation
ECIA	Environmental conditions investigation addendum
LOU	Letter of understanding
MCL	Maximum contaminant level
MDC	Minimum detectable concentration
mg/L	Milligram per liter
MSSL	Medium-specific screening level
NDEP	State of Nevada, Division of Environmental Protection
Paragon	ALS-Paragon
pCi/L	PicoCurie per liter
Plant Site	TIMET Plant Site Area
QC	Quality control
SAP	Sampling & Analysis Plan
SL	Screening level
SQL	Sample quantitation limit
Tetra Tech	Tetra Tech EM Inc.
TIMET	Titanium Metals Corporation
TOC	Top of casing
TDS	Total Dissolved Solids
VOC	Volatile organic compound

1.0 INTRODUCTION

This Annual Groundwater Monitoring Report (hereafter referred to as the "Annual Report") was prepared on behalf of Titanium Metals Corporation (TIMET) for the facility located in Henderson, Nevada (see Figure 1-1). The Annual Report is being submitted to the State of Nevada, Division of Environmental Protection (NDEP), pursuant to the report requirements of the Groundwater Remedial Action Operation and Maintenance Monitoring Sampling and Analysis Plan (SAP), dated February 22, 2010 (TIMET 2010a) and comments regarding the SAP submitted by the NDEP on March 10, 2010 (NDEP 2010a). The program consists of four main data collection sequences as follows:

- On-going quarterly groundwater data collection for groundwater protection and landfill permit wells (CLD1-R, CLD4-R, J2U2, J2D4, TIMETMW-6R and CMT-101 in lieu of CLD3-R that was abandoned) only;
- Semiannual groundwater data collection for the TIMET Plant Site Area (Plant Site), (BRW-R1, J2D1-R2, J2D2-R2, J2D3-R, J2U1, TIMETMW-1, TIMETMW-2, TIMETMW-3R, TIMETMW-4, TIMETMW-5, M-129, M-130, and former piezometers TMPZ-105 through – TMPZ-110);
- Wells near the former southern site boundary along Lake Mead Parkway considered upgradient (TMMW-101 through TMMW-104);
- Wells located downgradient of the Plant Site (AA-01, AA-09, AA-11, AA-19, AA-20, AA-27, AA-UW1, DBMW-1, DBMW-3, DBMW-4, DBMW-5, PC-24, PC-28, PC-54, PC-67, PC-124, POD2-R, and POU-3) as per the recent SAP (TIMET 2010a) and NDEP guidance (NDEP 2010a).

Data obtained from the quarterly groundwater protection and landfill permit wells are presented in TIMET's quarterly Discharge Monitoring Report to the NDEP as well as in this groundwater monitoring report and will not be specifically addressed here as they pertain to permit compliance. However the analytical data obtained from these events have been added to the TIMET analytical database and were validated and included in the annual groundwater data validation summary report (DVSR) as Appendix A.

This Annual Report summarizes groundwater data collected during the 2nd Semester of 2011 and the 1st Semester of 2012 at the TIMET facility in Henderson, Nevada (see Figure 1-1). The 2nd Semester, 2011 sampling event was conducted from October 4th through October 31, 2011 and the 1st Semester, 2012 sampling event was conducted from April 3rd through May 2nd, 2012. The well locations sampled are shown in Figure 1-2. Water levels and analytical results are summarized, mapped, tabulated, and graphed in this report (trend charts).

Previous analytical results for groundwater samples collected from the TIMET facility are presented in the following reports:

"Final Environmental Conditions Investigation Report" (Tetra Tech 1998a)

"Environmental Conditions Investigation Addendum, Draft Report" (Tetra Tech 1999)

"Quarterly Groundwater Monitoring Report – Semiannual Format, March 2000 to December 2003" (Tetra Tech 2004a)

Quarterly and semiannual reports submitted on a quarterly or semiannual basis from 1st Quarter, 2004 through 1st Semester, 2011 (Tetra Tech 2004b, 2004d, 2004e, 2005b, 2005c, 2005d, 2005e, 2006a, 2006b, 2006c, 2006d, 2007a, 2007b, 2007c, TIMET 2008a, 2008b, 2009, 2010b, 2010c, 2011a, 2011b)

"Revised Environmental Conditions Investigation Addendum Report" (Tetra Tech 2005a)

This Annual Report adds to the data presented in the previous reports listed above. Section 1.1 summarizes the project history, Section 1.2 describes the purpose and scope of the groundwater monitoring program, and Section 1.3 summarizes the report organization.

1.1 PROJECT HISTORY

In 1991, NDEP entered into a Consent Agreement with six of the companies, including TIMET, which had facilities at the BMI Complex. Three phases of corrective action were identified in the Consent Agreement:

- Phase I – Develop environmental conditions assessment (ECA) reports for each "Individual Company Site" and "BMI Common Areas";
- Phase II – Perform an environmental conditions investigation (ECI) to fill data gaps identified during Phase I, if determined necessary by NDEP;
- Phase III – Identify and implement appropriate remedial measures to address conditions identified during Phases I and II, if determined necessary by NDEP.

TIMET's Phase I ECA is presented in the "Phase I Environmental Conditions Assessment Report, Titanium Metals Corporation, Henderson, Nevada" published by Law Engineering (1993).

Based on the information in the Phase I ECA report and subsequent discussions with TIMET, NDEP issued a letter of understanding (LOU) dated August 16, 1994, that identified 54 study items requiring additional information or further investigation (NDEP 1994). On June 7, 1996, TIMET submitted a letter to NDEP that provided complete responses to some action items in the LOU and that identified other

action items requiring additional investigation (Hydro-Search 1996). In June 1996, NDEP entered into a Consent Agreement with TIMET to perform an ECI, remedial alternative studies, interim remedial measures, or additional work.

The action items identified in the LOU response were addressed during the Phase II ECI in accordance with the June 1996 Consent Agreement. Results of the Phase II ECI are discussed in the final ECI report (Tetra Tech 1998a) and the revised ECI addendum (ECIA) report (Tetra Tech 2005a). On December 1, 2003, NDEP sent a letter to TIMET providing NDEP's comments on the ECIA report (NDEP 2003a). On December 11, 2003, NDEP sent a letter to TIMET providing recommendations for accelerated work to abate, mitigate, and eliminate environmental contaminants at the TIMET facility (NDEP 2003b). This Annual Report is submitted in partial fulfillment of TIMET's response to NDEP's recommendation for accelerated groundwater work (TIMET 2004) and is in accordance with TIMET's current Generic SAP and the latest groundwater monitoring SAP (TIMET 2007 and TIMET 2010a) and NDEP's comments on the 2010 SAP (NDEP 2010a).

1.2 PURPOSE AND SCOPE

This annual groundwater monitoring was conducted as part of the expanded groundwater investigation under the Phase II ECI, as described in Appendix A of the ECIA report (Tetra Tech 1999) and according to the groundwater monitoring SAP (TIMET 2010a, NDEP 2010a). The purpose of the groundwater investigation is to (1) characterize the distribution of inorganic, organic, and radionuclide analytes in groundwater; (2) characterize the hydraulic properties of the aquifer; and (3) evaluate relationships between groundwater chemistry, hydrogeology, and potential sources. The following activities were performed during this groundwater monitoring event.

- Gauged depth to groundwater in wells relative to the top of casing (TOC) of the wells.
- Collected groundwater samples for field and chemical analyses using micro-purge sampling technology.
- Evaluated basic groundwater hydrology and water quality data.
- Analyzed groundwater data for trends, and compared data with NDEP Basic Comparison Levels (BCLs) (NDEP 2010b) or the maximum contaminant levels (MCL) (U.S. Environmental Protection Agency 2003). BCLs and MCLs are used herein for preliminary screening only and do not imply a comprehensive evaluation of health effects.

During the semi-annual events performed during the 2nd Semester of 2011 and the 1st Semester of 2012, data collection was attempted at well locations shown in Figure 1-2. During both sampling events, well locations AA-15, AA-19, J2U1, & POD2-R did not produce sufficient water to collect samples for chemical analysis. In addition, the sampling of well J2D3-R was replaced by the sampling of EWQAL-12 during both events discussed on this annual monitoring report since well J2D3-R does not appear to be appropriately screened for current subsurface conditions. Finally, well locations CLD2-R and CLD3-R were properly abandoned on February 2, 2010, due to their location within the slurry wall alignment and CMT-101 was sampled to address this potential data gap. Table 2-1 lists wells and the sampling design implemented for this monitoring event to address specific analyte data needs in accordance with the SAP and subsequent NDEP comments (TIMET 2010a, NDEP 2010a).

1.3 REPORT ORGANIZATION

The remainder of this report is organized into the following three sections:

- Section 2.0, Groundwater Monitoring Program – Describes each component of the groundwater monitoring program, including field analytical methods used.
- Section 3.0, Groundwater Monitoring Data – Summarizes groundwater conditions and results of groundwater monitoring for the Plant Site.
- Section 4.0, References – Lists the references cited in this report.

Figures and tables follow their respective sections. Appendix A of this report contains response to comments (reserved for future use). Appendix B contains hydrographs of the well locations as shown on Figure 1-2 and as defined by the recent SAP (TIMET 2010a, NDEP 2010a). Appendix C contains concentration trend graphs for selected analytes. Appendix D contains isoconcentration maps for selected analytes in the 2nd Semester 2011. Appendix E contains isoconcentration maps for selected analytes in the 1st Semester 2012. Appendix F contains groundwater data sampling forms for both events.

FIGURES

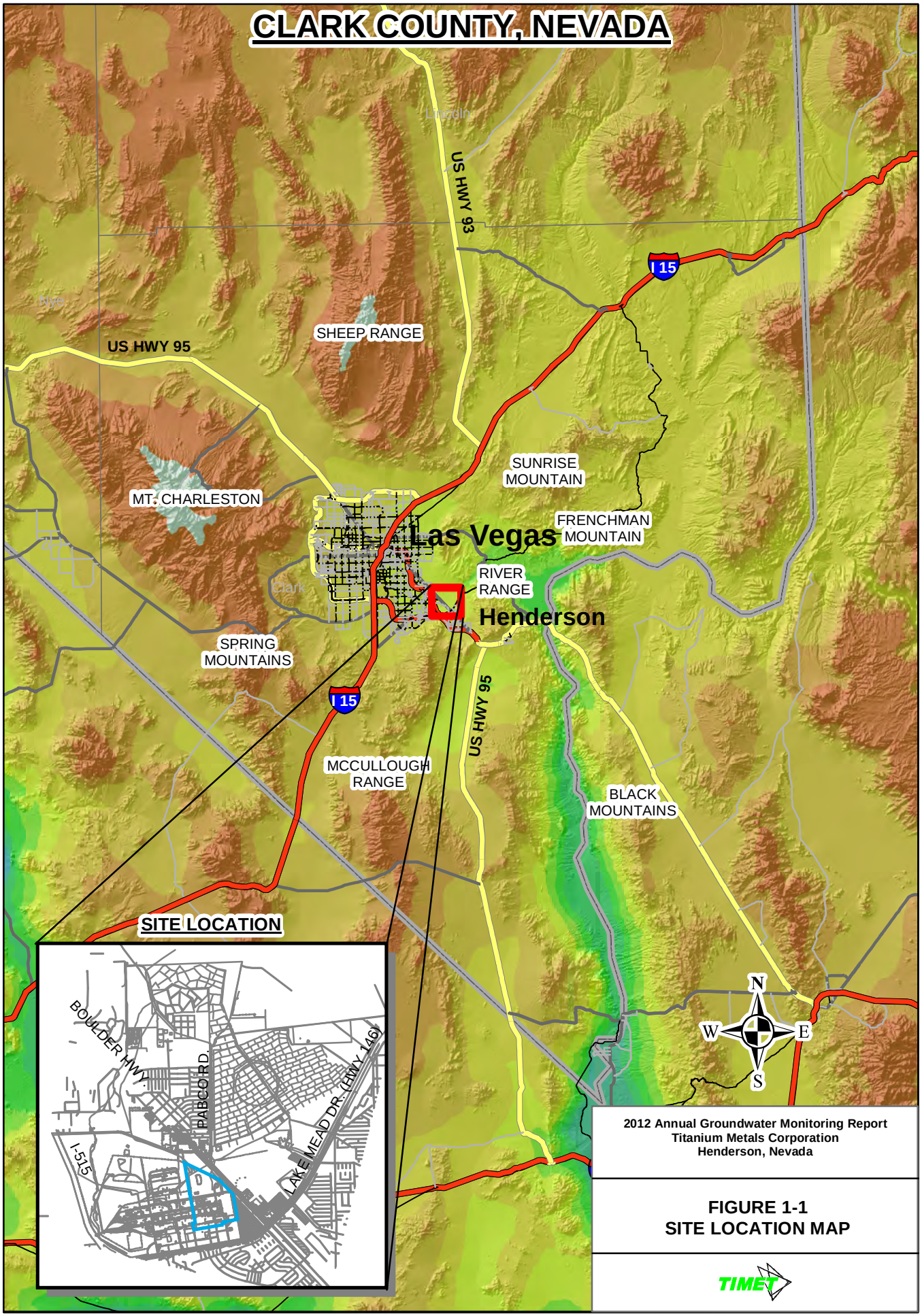

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FIGURE 1-1
SITE LOCATION MAP

TIMET

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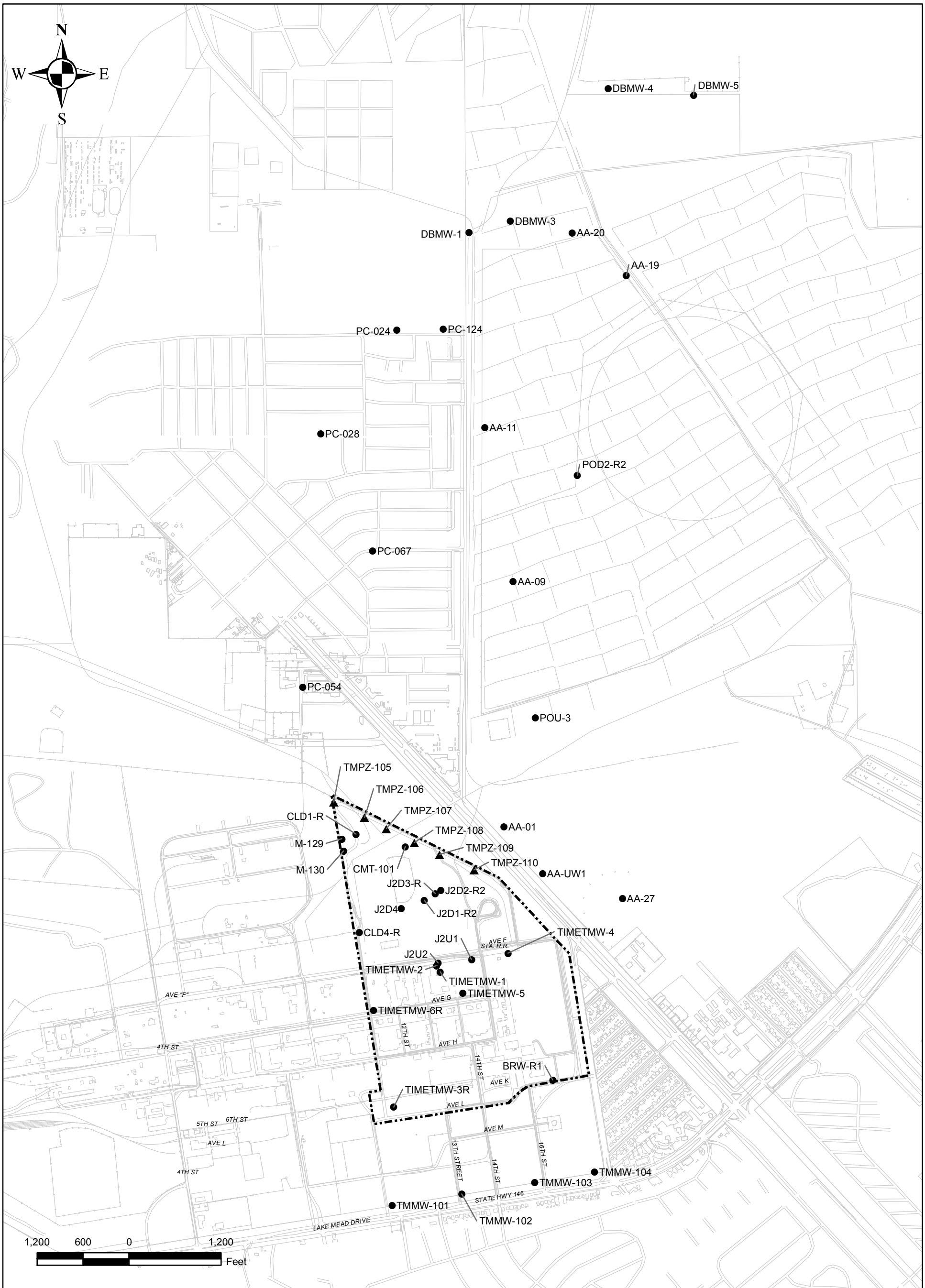

BRW-R1 ● MONITORING WELL LOCATION

TMPZ-105 ▲ PIEZOMETER

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FIGURE 1-2
MONITORING WELL LOCATION MAP

TIMET

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2.0 GROUNDWATER MONITORING PROGRAM

Historical groundwater sampling procedures are specified in (1) the ECI workplan, Appendix A, Standard Operating Procedure for Soil, Groundwater, Pond Water, and Sediment Sampling, and (2) the Data Quality Assurance Project Plan (Tetra Tech 1998b). Sampling procedures were modified to incorporate the micro-purge sampling protocol for groundwater, with the approval of the NDEP, on August 13, 2004; accordingly, the micro-purge regimen was initiated during the 1st quarter 2005 sampling event (Tetra Tech 2004c) and has been continued thereafter. Current groundwater sampling procedures are specified in the Generic Site-Wide SAP and the Groundwater Remedial Action Operation and Maintenance Monitoring SAP (TIMET 2007 and TIMET 2010a).

Table 2-1 lists the wells included under the groundwater monitoring program, the required analyses, and pertinent notes. Note that Table 2-1 includes the Plant Site wells, Lake Mead Parkway wells (TMMW-101 through TMMW-104), and piezometer locations (TMPZ-105 through TMPZ-110) as well as the offsite wells located downgradient of the Plant Site (AA-01, AA-09, AA-11, AA-15, AA-19, AA-20, AA-27, AA-UW1, DBMW-1, DBMW-3, DBMW-4, DBMW-5, PC-24, PC-28, PC-54, PC-67, PC-124, POD2-R and POU-3). Table 2-2 provides details concerning well construction.

The following sections briefly describe the procedures followed by TIMET personnel when performing groundwater monitoring field activities.

- Section 2.1, Well Measurements
- Section 2.2, Sample Collection
- Section 2.3, Decontamination Procedures
- Section 2.4, Management of Investigation-Derived Waste
- Section 2.5, Analytical Program

2.1 WELL MEASUREMENTS

Before monitoring wells are sampled, depth to groundwater and total well depth relative to TOC are gauged in each well. Water levels and total depth of each well are measured to the nearest 0.01 foot using an electronic water level meter. The water level probe and cable are decontaminated before use at each well.

2.2 SAMPLE COLLECTION

TIMET personnel performed groundwater sampling activities using TIMET-owned equipment. ALS-Paragon (Paragon) of Fort Collins, Colorado supplied TIMET with "certified clean" sample bottles, with chemical preservatives added as applicable; coolers; and the associated chain-of-custody forms.

Wells under the groundwater monitoring program are purged using QED® SamplePro (portable) or QED® Well Wizard (dedicated) bladder pumps. Dedicated pumps have been installed in wells CLD4-R, J2D1-R2, J2D2-R2, J2D4, MW-6R, TMMW-104, BRW-R1, TIMETMW-4, TIMETMW-5, and J2U2. The dedicated pumps are set approximately in the middle of the submerged screen within each well. Wells were purged at low enough flow rates such that drawdown did not exceed 0.3 foot using a QED® MP10 advanced digital controller. Field parameters, including pH, conductivity, temperature, dissolved oxygen, and turbidity were measured at 3-minute intervals and recorded on a groundwater sampling form. These field parameters are depicted on Figures 2-1 and 2-2.

Purging was considered complete after a minimum of three consecutive measurements of field parameters met stabilization criteria that were established to ensure representative formation water was sampled. Stabilization criteria included ± 0.1 pH unit, ± 3 percent for specific conductivity, and ± 10 percent for turbidity and dissolved oxygen. The only internal portion of the pump exposed to groundwater during sampling is the bladder, which is replaced between each well. The discharge tubing for each well is dedicated. Groundwater samples were collected by first filling the pre-preserved vials for analysis of volatile organic compounds (VOC) and radon-222, followed by filling the rest of the sample bottles. Table 5 of the TIMET Generic Site-Wide Sampling and Analysis Plan provides the types and volumes of sampling containers required for each analysis (TIMET 2007).

A sample identification number was recorded on the label attached to each sample container and the chain-of-custody form. Filled sample containers were properly packaged and placed in a cooler containing a temperature blank and bagged ice, when required. Quality control (QC) samples, including field duplicates and trip blanks (when applicable), were also packed with samples in the cooler.

Field personnel were responsible for properly preserving, packaging, labeling, documenting, storing, handling, and shipping samples obtained during the sampling event. Field QC samples were collected to determine if sampling practices affected sample integrity and subsequently the quality of analytical results. Field QC samples collected during each sampling event consist of field duplicates, which are samples collected from the same well immediately after the initial sampling. In addition to QC samples

collected in the field, a trip blank (laboratory-prepared vial) was stored and transported with sample coolers that contained samples for VOC analysis. Groundwater samples were shipped to Paragon in Fort Collins, Colorado, using sample coolers provided by the laboratory.

2.3 DECONTAMINATION PROCEDURES

Non-dedicated purging pumps, sampling equipment, and monitoring instrumentation (such as water level meters) were decontaminated before and after use at each well. The portable pump was decontaminated by replacing the bladder, which is the only internal component exposed to groundwater. The external housing of the pump was submerged in a non-phosphate detergent and tap water solution. The pump was then submerged in rinse water. Water level probes were decontaminated by washing the probes with non-phosphate detergent and tap water, and then rinsing the probes with tap water.

2.4 MANAGEMENT OF INVESTIGATION-DERIVED WASTE

Purge water was collected in designated 55-gallon drums and stored on-site. Miscellaneous waste, such as personal protective equipment, disposable sampling equipment, polyethylene sheeting, and general trash, were disposed of as municipal solid waste.

2.5 ANALYTICAL PROGRAM

Table 5 of the TIMET Generic Site-Wide Sampling and Analysis Plan (TIMET 2007) lists the analytical parameters, analytical methods, containers, preservatives, and maximum holding times for groundwater samples collected as part of the groundwater monitoring program (TIMET 2010a, NDEP 2010a). Samples were collected from the monitoring well locations shown on Figure 1-2 and analyzed for the constituents specified in Table 2-1.

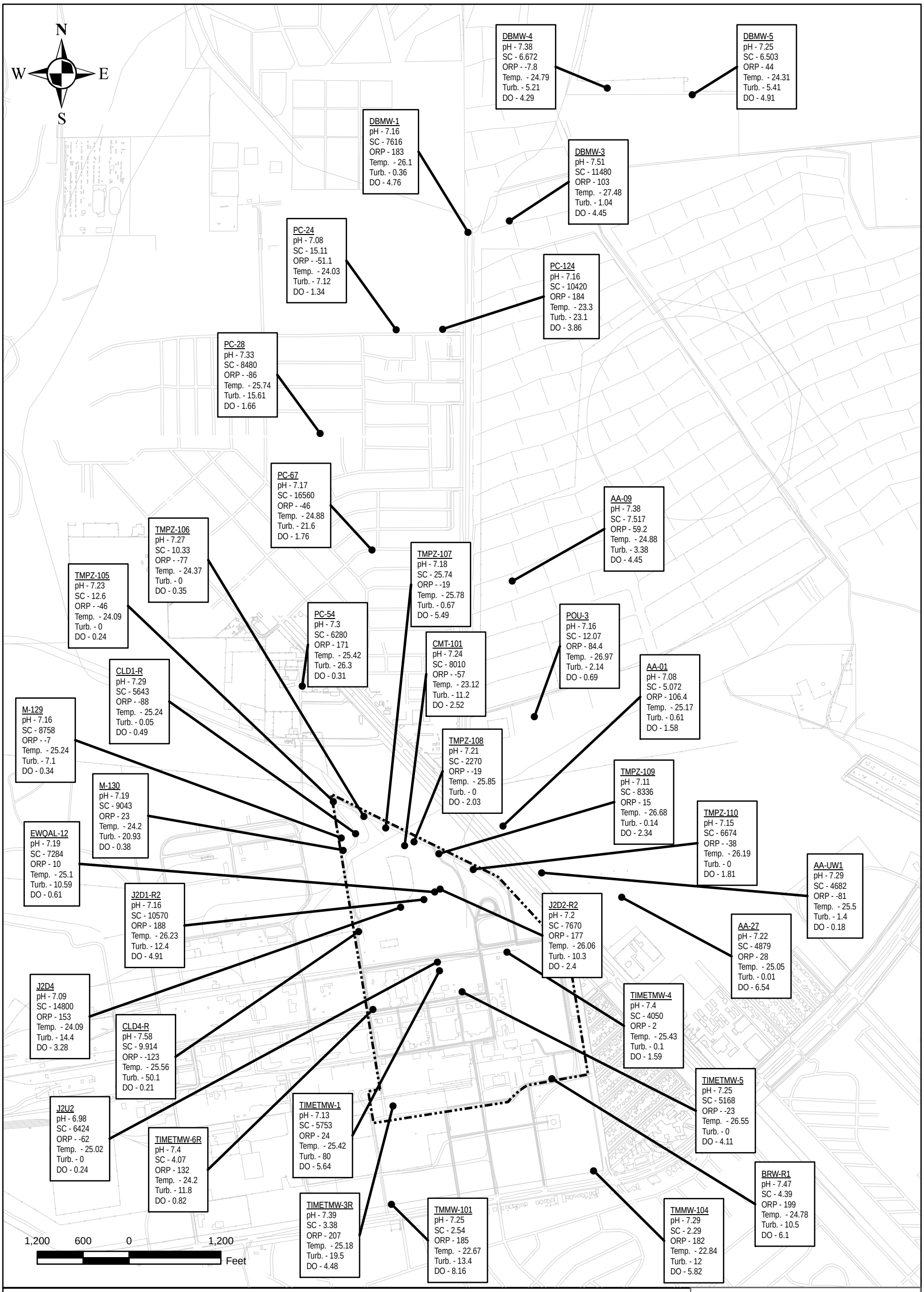
Paragon performed the sample analyses for these events. In order to ensure the highest quality review, full data packages (both hardcopy and electronic formats) were received from Paragon. Level 2B validation was conducted on all sample results; with a minimum of 10 percent reviewed at Level 4 (based on the most recent data validation guidance from NDEP). Groundwater data collected is summarized and reported in the DVSRs produced for both sampling events (TIMET 2012a, TIMET 2012b)

For each event, Paragon prepared a Client Analysis Summary that was e-mailed to TIMET for review. The summary was checked against the sampling plan (see Table 2-1) for completeness and accuracy in logging tests and sample identification numbers.

Upon completion of analyses for each event, Paragon conducted an internal QC review of test results before releasing data to the client. As part of the QC review, and as required by the NDEP, three comparison tests were conducted to verify the correctness of analyses using Standard Method 1030E (American Public Health Association 2005). Cation-anion balance (CAB), measured total dissolved solids (TDS) versus calculated TDS, and TDS versus electrical conductivity (EC) were evaluated based on recent NDEP guidance (NDEP 2009). Findings are discussed in Section 3.2.

Data deliverables from Paragon include hardcopy reports, electronic format of hardcopy reports (in portable document format), and electronic data deliverables (EDD). The EDDs for this sampling event were directly loaded into the TIMET analytical database, a Microsoft® Access database. The Access database for the two groundwater sampling events encompassed in this annual report can be found in the DVSRs for 2nd Semester 2011 data (TIMET, 2012a) and 1st Semester, 2012 data (TIMET, 2012b).

FIGURES



● MONITORING WELL WITH FIELD MEASUREMENT DATA

BRW-R1
pH - 7.37
SC (Specific Conductance µS/cm) - 4340
ORP (Oxidation Reduction Potential Eh) - 182
Temp. (Temperature °C) - 23.57
Turb.(Turbidity NTU) - 0.47
DO (Dissolved Oxygen mg/L) - 5.69

NOTE: All wells gauged October 2011.

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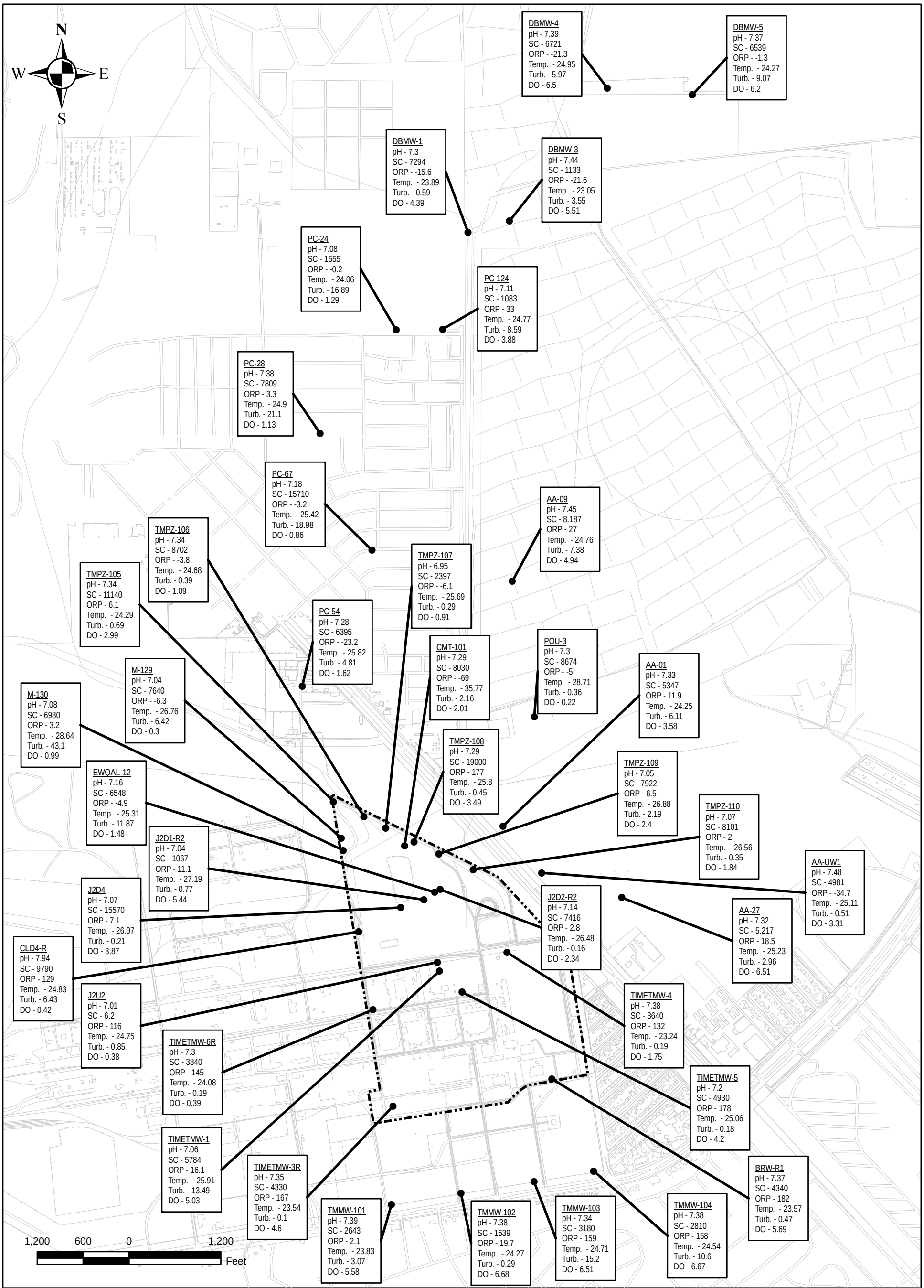
FIGURE 2-1
FIELD MEASUREMENT DATA
2ND SEMESTER 2011

TIMET

2012-10-09 C:\TIMET\1stSem2012\mxd\TIMET_site_field_data_S12012.mxd michelle.handley



● MONITORING WELL WITH FIELD MEASUREMENT DATA

BRW-R1
pH - 7.37
SC (Specific Conductance µS/cm) - 4340
ORP (Oxidation Reduction Potential Eh) - 182
Temp. (Temperature °C) - 23.57
Turb.(Turbidity NTU) - 0.47
DO (Dissolved Oxygen mg/L) - 5.69

NOTE: All wells gauged April 2012.

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FIGURE 2-2
FIELD MEASUREMENT DATA
1ST SEMESTER 2012

TIMET

2012-10-09 C:\TIMET\1stSem2012\mxd\TIMET_site_field_data_S12012.mxd michelle.handley

TABLES

TABLE 2-1
CURRENT GROUNDWATER MONITORING PLAN
2012 ANNUAL GROUNDWATER MONITORING REPORT

Monitoring Well ID	Date Sample Collected	Depth to Water	ANALYTICAL																
			General					Metals						Radionuclides			VOCs		
			Anions			Other Anions	TDS	ICP				ICP/MS	Hex Cr	Gross Alpha Gross Beta	Major Radionuclides	Radon-222	PCE	Chloroform	8260
			NO3	Cl	ClO4			Cr	Mg	V	Other TAL metals	Uranium							
ON-SITE			**PLANT SITE WELLS**																
BRW-R1	10/18/11	46.65	X	X	X	X	X	X	X	X	X	X	X	X	X	X			X
BRW-R1	04/11/12	46.73	X	X	X	X	X	X	X	X	X	X	X	X	X	X			X
CLD1-R	10/20/11	30.50	X	X	X	X	X	X	X	X	X	X	X	X	X	X			X
CLD1-R	04/23/12	30.90	X	X	X	X	X	X	X	X	X	X	X	X	X	X			X
CLD2-R	2ndS2011	NA	WELL ABANDONED																
CLD2-R	1stS2012	NA	WELL ABANDONED																
CLD3-R	2ndS2011	NA	WELL ABANDONED																
CLD3-R	1stS2012	NA	WELL ABANDONED																
CLD4-R	10/19/11	38.53	X	X	X	X	X	X	X	X	X	X	X	X	X	X			X
CLD4-R	04/16/12	38.26	X	X	X	X	X	X	X	X	X	X	X	X	X	X			X
J2D1-R2	10/25/11	41.90	X	X	X	X	X	X	X	X	X	X	X	X	X	X			X
J2D1-R2	04/24/12	41.48	X	X	X	X	X	X	X	X	X	X	X	X	X	X			X
J2D2-R2	10/25/11	44.15	X	X	X	X	X	X	X	X	X	X	X	X	X	X			X
J2D2-R2	04/19/12	43.72	X	X	X	X	X	X	X	X	X	X	X	X	X	X			X
~~J2D3-R~~	2ndS2011	NA	---	---	---	---	---	---	---	---	---	---	---	---	---	---			---
~~J2D3-R~~	1stS2012	NA	---	---	---	---	---	---	---	---	---	---	---	---	---	---			---
EWQAL-12	10/31/11	43.75	X	X	X	X	X	X	X	X	X	X	X	X	X	X			X
EWQAL-12	04/25/12	43.33	X	X	X	X	X	X	X	X	X	X	X	X	X	X			X
J2D4	10/27/11	38.66	X	X	X	X	X	X	X	X	X	X	X	X	X	X			X
J2D4	04/23/12	38.46	X	X	X	X	X	X	X	X	X	X	X	X	X	X			X
J2U1	2ndS2011	NA	Not enough water column to collect sample																
J2U1	05/02/12	51.75	Not enough water column to collect sample																
J2U2	10/26/11	45.87	X	X	X	X	X	X	X	X	X	X	X	X	X	X			X
J2U2	04/19/12	44.78	X	X	X	X	X	X	X	X	X	X	X	X	X	X			X
TIMETMW-1	10/20/11	45.96	---	---	---	---	---	---	---	---	---	---	---	---	---	---			X
TIMETMW-1	04/19/12	44.56	---	---	---	---	---	---	---	---	---	---	---	---	---	---			X
TIMETMW-2	2ndS2011	NA	---	---	---	---	---	---	---	---	---	---	---	---	---	---			X
TIMETMW-2	1stS2012	NA	---	---	---	---	---	---	---	---	---	---	---	---	---	---			X
TIMETMW-3R	10/12/11	50.95	X	X	X	X	X	X	X	X	X	X	X	X	X	X			X
TIMETMW-3R	04/11/12	52.12	X	X	X	X	X	X	X	X	X	X	X	X	X	X			X
TIMETMW-4	10/19/11	52.80	X	X	X	X	X	X	X	X	X	X	X	X	X	X			X
TIMETMW-4	04/12/12	51.90	X	X	X	X	X	X	X	X	X	X	X	X	X	X			X
TIMETMW-5	10/18/11	50.04	X	X	X	X	X	X	X	X	X	X	X	X	X	X			X
TIMETMW-5	04/12/12	49.12	X	X	X	X	X	X	X	X	X	X	X	X	X	X			X
TIMETMW-6R	10/19/11	44.00	X	X	X	X	X	X	X	X	X	X	X	X	X	X			X
TIMETMW-6R	04/16/12	43.02	X	X	X	X	X	X	X	X	X	X	X	X	X	X			X
M-129	10/27/11	32.56	X	X	X	X	X					X	X						X
M-129	04/30/12	32.27	X	X	X	X	X					X	X						X

TABLE 2-1
CURRENT GROUNDWATER MONITORING PLAN
2012 ANNUAL GROUNDWATER MONITORING REPORT

Monitoring Well ID	Date Sample Collected	Depth to Water	ANALYTICAL																
			General					Metals						Radionuclides			VOCs		
			Anions			Other Anions	TDS	ICP				ICP/MS	Hex Cr	Gross Alpha Gross Beta	Major Radionuclides	Radon-222	PCE	Chloroform	8260
			NO3	Cl	ClO4			Cr	Mg	V	Other TAL metals	Uranium							
M-130	10/27/11	28.23	X	X	X	X	X					X	X						X
M-130	04/30/12	28.49	X	X	X	X	X					X	X						X
CMT-101	10/31/11	35.10	X	X	X	X	X	X	X	X	X	X	X						X
CMT-101	05/01/12	35.16	X	X	X	X	X	X	X	X	X	X	X						X
TMPZ-105	10/24/11	34.12	X	X	X	X	X					X	X						X
TMPZ-105	04/26/12	34.72	X	X	X	X	X					X	X						X
TMPZ-106	10/24/11	32.10	X	X	X	X	X					X	X						X
TMPZ-106	04/26/12	33.07	X	X	X	X	X					X	X						X
TMPZ-107	10/24/11	33.42	X	X	X	X	X					X	X						X
TMPZ-107	04/25/12	34.08	X	X	X	X	X					X	X						X
TMPZ-108	10/25/11	35.40	X	X	X	X	X					X	X						X
TMPZ-108	05/01/12	35.40	X	X	X	X	X					X	X						X
TMPZ-109	10/25/11	38.41	X	X	X	X	X					X	X						X
TMPZ-109	05/01/12	38.27	X	X	X	X	X					X	X						X
TMPZ-110	10/25/11	41.74	X	X	X	X	X					X	X						X
TMPZ-110	04/23/12	41.20	X	X	X	X	X					X	X						X
OFF-SITE			**WELLS LOCATED UPGRADIENT OF PLANT SITE**																
TMMW-101	10/12/11	71.51	X	X	X	X	X	X	X	X	X	X	X	X	X	X			X
TMMW-101	04/05/12	68.44	X	X	X	X	X	X	X	X	X	X	X	X	X	X			X
TMMW-102	2ndS2011	NA	X	X	X	X	X	X	X	X	X	X	X	X	X	X			X
TMMW-102	04/05/12	65.62	X	X	X	X	X	X	X	X	X	X	X	X	X	X			X
TMMW-103	2ndS2011	NA	X	X	X	X	X	X	X	X	X	X	X	X	X	X			X
TMMW-103	04/09/12	68.05	X	X	X	X	X	X	X	X	X	X	X	X	X	X			X
TMMW-104	10/11/11	62.58	X	X	X	X	X	X	X	X	X	X	X	X	X	X			X
TMMW-104	04/09/12	71.91	X	X	X	X	X	X	X	X	X	X	X	X	X	X			X
OFF-SITE			**WELLS LOCATED DOWNGRADIENT OF PLANT SITE**																
AA-01	10/12/11	48.35	X	X	X	X	X	X	X	X	X	X							X
AA-01	04/11/12	48.51	X	X	X	X	X	X	X	X	X	X							X
AA-09	10/06/11	38.71	X	X	X	X	X	X	X	X	X	X							X
AA-09	04/03/12	38.79	X	X	X	X	X	X	X	X	X	X							X
AA-11	10/06/11	30.90	X	X	X	X	X	X	X	X	X	X							X
AA-11	04/10/12	31.01	X	X	X	X	X	X	X	X	X	X							X
AA-15	10/06/11	NA	Not enough water column to collect sample																
AA-15	04/10/12	NA	Not enough water column to collect sample																
AA-19	10/06/11	NA	Well Dry																
AA-19	04/10/12	NA	Well Dry																
AA-20	10/06/11	31.97	Not enough water column to collect sample																
AA-20	04/10/12	32.17	Not enough water column to collect sample																
AA-27	10/10/11	68.33	X	X	X	X	X	X	X	X	X	X							X

TABLE 2-1
CURRENT GROUNDWATER MONITORING PLAN
2012 ANNUAL GROUNDWATER MONITORING REPORT

Monitoring Well ID	Date Sample Collected	Depth to Water	ANALYTICAL																
			General					Metals						Radionuclides			VOCs		
			Anions			Other Anions	TDS	ICP				ICP/MS	Hex Cr	Gross Alpha Gross Beta	Major Radionuclides	Radon-222	PCE	Chloroform	8260
			NO3	Cl	ClO4			Cr	Mg	V	Other TAL metals	Uranium							
AA-27	04/03/12	68.31	X	X	X	X	X	X	X	X	X	X							X
AA-UW1	10/10/11	52.72	X	X	X	X	X	X	X	X	X	X							X
AA-UW1	04/16/12	52.89	X	X	X	X	X	X	X	X	X	X							X
DBMW-1	10/11/11	35.84	X	X	X	X	X	X	X	X	X	X							X
DBMW-1	04/12/12	34.52	X	X	X	X	X	X	X	X	X	X							X
DBMW-3	10/11/11	34.05	X	X	X	X	X	X	X	X	X	X							X
DBMW-3	04/12/12	34.59	X	X	X	X	X	X	X	X	X	X							X
DBMW-4	10/13/11	26.92	X	X	X	X	X	X	X	X	X	X							X
DBMW-4	04/17/12	26.96	X	X	X	X	X	X	X	X	X	X							X
DBMW-5	10/13/11	28.75	X	X	X	X	X	X	X	X	X	X							X
DBMW-5	04/17/12	28.90	X	X	X	X	X	X	X	X	X	X							X
PC-21	04/14/11	NA	Unable to locate well - Likely burried or Destroyed																
PC-21	1stS2012	NA	Unable to locate well - Likely burried or Destroyed																
PC-24	10/17/11	20.44	X	X	X	X	X	X	X	X	X	X							X
PC-24	04/09/12	21.08	X	X	X	X	X	X	X	X	X	X							X
PC-28	10/05/11	11.35	X	X	X	X	X	X	X	X	X	X							X
PC-28	04/04/12	12.04	X	X	X	X	X	X	X	X	X	X							X
PC-54	10/04/11	20.50	X	X	X	X	X	X	X	X	X	X							X
PC-54	04/11/12	21.93	X	X	X	X	X	X	X	X	X	X							X
PC-67	10/05/11	12.82	X	X	X	X	X	X	X	X	X	X							X
PC-67	04/04/12	12.91	X	X	X	X	X	X	X	X	X	X							X
PC-124	10/04/11	24.97	X	X	X	X	X	X	X	X	X	X							X
PC-124	04/09/12	25.33	X	X	X	X	X	X	X	X	X	X							X
POD2-R	2ndS2011	NA	Not enough water column to collect sample																
POD2-R	04/18/12	64.09	Not enough water column to collect sample																
POU-3	10/12/11	39.45	X	X	X	X	X	X	X	X	X	X							X
POU-3	04/18/12	39.68	X	X	X	X	X	X	X	X	X	X							X

Notes:
Cl Chloride
ClO4 Perchlorate
Cr Chromium
DO Dissolved Oxygen
Hex Cr Hexavalent Chromium
ICP Inductively coupled plasma
ICP/MS Inductively coupled plasma/mass spectrometry
ID Identification number
Mg Magnesium
NO3 Nitrate
SC Specific Conductivity

TABLE 2-2
MONITORING WELL CONSTRUCTION DETAILS
2012 ANNUAL GROUNDWATER MONITORING REPORT

Monitoring Well Identification No.	Status	Aquifer	Replaces[1]	Screened Formation	Date Drilled	Geologic Log & Well Construction Details Available	UTM Y Zone North-South Coordinates in Meters[2]	UTM Y Zone East-West Coordinates in Meters[2]	Ground Elevation[3]	Casing Elevation[4]	Screen Top (ft bgs)	Screen Bottom (ft bgs)	Bottom Screen Elevation
BRW-R1	Active	Shallow	BRW	Qal/xMCf	3/24/1999	Yes	26716928.10	831558.841	1,844	1843.88	40	60	1,784
CLD1-R [5]	Active	Shallow	CLD1	Qal	8/23/1983	No[5]	26720138.24	828993.721	1,743	1745.42	16	29	1,714
CLD2-R [5]	P&A	Shallow	CLD2	Qal	8/23/1983	No[5]	26719965.90	828920.852	1,752	1,753.14	10.5	30.5	1,721
CLD3-R [5]	P&A	Shallow	CLD3	Qal	8/23/1983	No[5]	26720010.74	829651.410	1,750	1,752.24	20	39	1,711
CLD4-R [5]	Active	Shallow	CLD4	Qal	8/23/1983	No[5]	26718854.29	829034.278	1,782	1782.07	27	47	1734.5
J2D1-R2	Active	Shallow	J2D1-R	Qal	8/19/1997	Yes	26719274.00	829885.777	1,771	1770.68	18	38	1732.7
J2D2-R2	Active	Shallow	J2D2-R	Qal/xMCf	8/19/1997	Yes	26719406.73	830098.482	1,770	1769.55	19	44	1725.7
~~J2D3-R~~	Active	Shallow	J2D3	Qal	8/23/1983	Yes	26719408.27	830353.035	1,770	1,769.90	15	39	1730.9
EWQAL-12	Inactive	Shallow	J2D3-R	Qal	08/23/83	Yes	26719370.90000	830027.40000	1769.90	1771.81	---	---	---
J2D4	Active	Shallow	--	Qal/xMCf	12/17/1997	Yes	26719171.05	829582.566	1,771	1774.66	15	45	1726.3
J2U1	Active	Shallow	--	Qal	4/13/1983	Yes	26718499.09	830498.140	1,799	1,800.98	42	47	1751.8
J2U2	Active	Shallow	--	Qal/xMCf	8/6/1997	Yes	26718456.02	830063.167	1,799	1798.54	33.5	68.5	1730
TIMETMW-1	Active	Shallow	--	Qal	8/27/1997	Yes	26718339.19	830090.2314	1801.7	1801.69	30	60	1741.7
TIMETMW-2	Active	Shallow	--	Qal	8/27/1997	Yes	26718418.59	830045.4513	1799.6	1,800.00	32	57	1742.6
TIMETMW-3R [6]	Active	Shallow	MW-3	Qal/xMCf	8/22/2008	Yes	26716571.73	829483.251	1,841	1,840.39	41	66	1774.6
TIMETMW-4	Active	Shallow	--	Qal/xMCf	3/25/1999	Yes	26718582.87	830973.924	1,798	1,800.61	38	58	1740.1
TIMETMW-5	Active	Shallow	--	Qal/xMCf	3/30/1999	Yes	26718063.61	830385.808	1,813	1,812.48	40	60	1752.8
TIMETMW-6R	Active	Shallow	MW-6	Qal/xMCf	8/18/1999	Yes	26717834.12	829221.075	1,813	1,812.36	39.7	59.7	1753.3
TMMW-101	Active	Shallow	--	Qal	12/13/2005	Yes	26715285.26	829462.76	1,881	1,881.11	65	95	1,786
TMMW-101 [7]	Active	Shallow	--	Qal	12/13/2005	Yes	26715285.26	829462.76	1,876	1,876.91	65	95	1,781
TMMW-102	Active	Shallow	--	Qal/xMCf	12/12/2005	Yes	26715433.08	830371.175	1,882	1,882.34	47	87	1,795
TMMW-102 [7]	Active	Shallow	--	Qal/xMCf	12/12/2005	Yes	26715433.08	830371.175	1,880	1,882.46	47	87	1,793
TMMW-103	Active	Shallow	--	xMCf	12/11/2005	Yes	26715583.05	831325.82	1,884	1,884.95	---	---	---
TMMW-103 [7]	Active	Shallow	--	xMCf	12/11/2005	Yes	26715583.05	831325.82	1,880	1,882.95	57	87	1,793
TMMW-104	Active	Shallow	--	xMCf	12/10/2005	Yes	26715722.71	832104.881	1,885	1,885.51	---	---	---
TMMW-104 [7]	Active	Shallow	--	xMCf	12/10/2005	Yes	26715722.71	832104.881	1,884	1,885.78	57	87	1,797
M-129	Active	Shallow	--	Qal/UMCf	03/19/08	Yes	26720079.64	828806.43	1744.48	1,747.26	20	40	1,707
M-130	Active	Shallow	--	Qal/UMCf	03/19/05	Yes	26719919.7	828832.01	1746.55	1,749.23	20	40	1,709
CMT-101	Active	Shallow	CLD3-R	xMCf	12/13/2007	Yes	26719980.31	829635.1691	1,749	1,751.42	48	48.5	1,703
AA-01	Active	Shallow	--	Qal	2/25/2004	Yes	26720238.47	830921.121	1,755	1,757.13	29	49	1,708
AA-09	Active	Shallow	--	Qal	6/9/2004	Yes	26723441.4	831041.587	1,694	1,696.23	30	65	1,631

TABLE 2-2
MONITORING WELL CONSTRUCTION DETAILS
2012 ANNUAL GROUNDWATER MONITORING REPORT

Monitoring Well Identification No.	Status	Aquifer	Replaces[1]	Screened Formation	Date Drilled	Geologic Log & Well Construction Details Available	UTM Y Zone North-South Coordinates in Meters[2]	UTM Y Zone East-West Coordinates in Meters[2]	Ground Elevation[3]	Casing Elevation[4]	Screen Top (ft bgs)	Screen Bottom (ft bgs)	Bottom Screen Elevation
AA-11	Active	Shallow	--	Qal	4/1/2004	Yes	26725458.78	830672.661	1,658	1,660.05	9	29	1,631
AA-15	Active	Shallow	--	Qal	06/20/04	Yes	26726004.23100	831753.69600	1655.46	1658.13	20	40	1,618
AA-19	Active	Shallow	--	Qal	7/10/2004	Yes	26727447.1	832521.435	1,640	1,642.32	22	42	1,600
AA-20	Active	Shallow	--	Qal	7/11/2004	Yes	26728007.71	831811.844	1,626	1,628.49	10	30	1,598
AA-27	Active	Shallow	--	Qal	7/7/2004	Yes	26719301.66	832471.341	1,787	1,789.38	61.5	81.5	1,708
AA-UW1	Active	Shallow	--	Qal	7/30/2007	Yes	26719624.99	831427.2049	1,772	1,774.63	55	65	1,710
DBMW-1	Active	Shallow	--	Qal	6/19/2007	Yes	26728009.64	830462.8978	1,623	1,626.46	19	49	1,578
DBMW-3	Active	Shallow	--	Qal	6/20/2007	Yes	26728157	831004.7895	1,611	1,625.86	19	39	1,587
DBMW-4	Active	Shallow	--	Qal	7/23/2007	Yes	26729895.86	832282.9325	1,614	1,605.81	10	30	1,576
DBMW-5	Active	Shallow	--	Qal	7/22/2007	Yes	26729807.16	833395.0435	1,599	1,609.65	15	35	1,575
PC-24	Active	Shallow	--	Qal	4/1/1998	Yes	26726729.82	829524.184	1,634	1,633.48	15	30	1,604
PC-28	Active	Shallow	--	Qal	4/1/1998	Yes	26725375.67	828530.649	1,651	1,650.85	10	19.5	1,631
PC-54	Active	Shallow	--	Qal	5/1/1998	Yes	26722067.79	828296.339	1,704	1,704.43	9.5	34.5	1,670
PC-67	Active	Shallow	--	Qal	5/1/1998	Yes	26723846.88	829207.58	1,674	1,673.82	11	35.6	1,638
PC-124	Active	Shallow	--	Qal/xMCf/UMCf	3/1/2004	Yes	26726741.58	830132.953	1,636	1,635.73	20.3	35.3	1,600
POD2-R	Active	Shallow	--	Qal	4/27/1982	Yes	26724825.4	831955.5	1,674	1,673.40	60	45	1,628
POU-3	Active	Shallow	--	Qal	4/1/1999	Yes	26721664.71	831329.9801	1,728	1,730.00	---	---	---
TMPZ-105	Active	Shallow	--	Qal/xMCf	12/6/2005	Yes	26720557.27	828703.771	1,736	1,736.68	19	39	1,697
TMPZ-106	Active	Shallow	--	Qal	12/7/2005	Yes	26720359.15	829102.418	1,742	1,742.25	19	39	1,703
TMPZ-107	Active	Shallow	--	Qal/xMCf	12/7/2005	Yes	26720209.59	829386.703	1,745	1,745.60	19	39	1,706
TMPZ-108	Active	Shallow	--	Qal/xMCf	12/8/2005	Yes	26720032.09	829756.757	1,750	1,750.46	26	46	1,704
TMPZ-109	Active	Shallow	--	Qal/xMCf	12/8/2005	Yes	26719874.25	830082.661	1,756	1,756.59	26	46	1,710
TMPZ-110	Active	Shallow	--	Qal/xMCf	12/8/2005	Yes	26719668.76	830531.856	1,763	1,764.00	25	45	1718
TMPZ-111	Active	Shallow	--	Qal	12/09/05	Yes	26719015.17300	831186.73400	---	1783.93	37	57	1,727
TMPZ-112	Active	Shallow	--	Qal	12/10/05	Yes	26718652.39300	831559.74400	--	1795.94	37	57	1738.94

Notes:

--	Not applicable
BAI	Broadbent & Associates, Inc.
P&A	Plugged and abandoned
JHK	J.H. Kleinfelder and Associates
NA	Not available
QAL	Quaternary alluvium

TABLE 2-2
MONITORING WELL CONSTRUCTION DETAILS
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Monitoring Well Identification No.	Status	Aquifer	Replaces[1]	Screened Formation	Date Drilled	Geologic Log & Well Construction Details Available	UTM Y Zone North-South Coordinates in Meters[2]	UTM Y Zone East-West Coordinates in Meters[2]	Ground Elevation[3]	Casing Elevation[4]	Screen Top (ft bgs)	Screen Bottom (ft bgs)	Bottom Screen Elevation
Tetra Tech	Tetra Tech EM Inc.												
TMC	Tertiary-age Muddy Creek Formation												
UTM	Universal Transverse Mercator												
WT	Water Table												
1	Replacement wells are collocated with P&A wells because of inadequate construction specifications, inadequate depth, improper screen intervals, or damage.												
2	UTM Zones in meters relative to North American Datum 27 from the DRI database (DRI 2004).												
3	Ground elevations estimated from surveyed top-of-casing elevations and tape-measured stickup.												
4	Casing elevations surveyed to North American Vertical Datum (NAVD) 1988 reported in feet above mean sea level; surveyed by licensed surveyor.												
5	Geologic log available for collocated (or replaced) P&A well.												
6	Replaced well location MW-3; geologic log provided as Figure												
7	Top of casing elevations of wells TMMW-101, TMMW-102, TMMW-103, and TMMW-104 were changed and resurveyed in 2008												

3.0 GROUNDWATER MONITORING DATA

This section summarizes the groundwater conditions (see Section 3.1) and analytical results (see Section 3.2). Figure 1-2 shows the location of each monitoring well located on and off the Plant Site sampled during these events. Table 2-1 summarizes the analytical suite conducted for each of the sampled wells.

Well BRW-R1 and the TIMETMW-3 replacement well (TIMETMW-3R) are generally considered upgradient of the current plant operations, and wells CLD1-R, and CMT-101 are considered downgradient of current plant operations. The six "J2" series wells (J2D1-R2, J2D2-R2, J2D3-R, J2D4, J2U1, and J2U2) serve as compliance monitoring points for the J2 Landfill, and may be upgradient of some potential sources and downgradient of others. Additionally, five wells (CLD1-R, CLD4-R, J2U2, J2D4, and TIMETMW-6R) serve as compliance points for the groundwater protection permit for ponds HP-1 and HP-6 (CLD2-R and CLD3-R were abandoned in 2010 and CMT-101 was sampled as a replacement). Four wells (TMMW-101, TMMW-102, TMMW-103, and TMMW-104) are positioned upgradient of the current plant operations along Lake Mead Parkway. Water level measurements and samples for selected analytes were obtained from six piezometers (TMPZ-105, TMPZ-106, TMPZ-107, TMPZ-108, TMPZ-109 and TMPZ-110) positioned just inside the northern fence line (downgradient). Monitoring wells M-129 and M-130, installed by Tronox, were monitored and sampled for select analytes as sentinel wells for the western flank of groundwater plumes emanating from the Tronox facility. In accordance with recent guidance from NDEP and the Groundwater Remedial Action Operation and Maintenance Monitoring Sampling and Analysis Plan (NDEP 2010a, TIMET 2010a), data were obtained from nineteen additional offsite wells (AA-01, AA-09, AA-11, AA-15, AA-19, AA-20, AA-27, AA-UW1, DBMW-1, DBMW-3, DBMW-4, DBMW-5, PC-24, PC-28, PC-54, PC-67, PC-124, POD2-R and POU-3) that are considered downgradient of the Plant Site. Monitoring wells AA-15, J2U1, and POD2-R were gauged for water levels; however, they did not yield sufficient water for collection of water samples this semester. In addition, for both events, well AA-19 did not have sufficient groundwater to be gauged for a water level and well PC-21 was unable to be located.

Figures and tables for the Plant Site are presented after this section. Figure 3-1 presents a potentiometric surface map using data from the well locations shown in Figure 1-2 that were gauged during the 1st Semester of 2012. The tables presented in this section summarize analytical results and laboratory qualifiers by well for each sampling event conducted from 2nd Semester 2009 through 1st Semester 2012. Hydrographs, concentration trend graphs, and isoconcentration maps are presented in Appendices B, C, D, and E, respectively.

Hydrographs present groundwater elevations for field measurements taken during 1st Quarter 2000 through 1st Semester 2012 at the Plant Site. Note that hydrographs for piezometers and Lake Mead Parkway wells contain fewer data points; as these were measured beginning in 2007.

Concentration trend graphs present analytical data for selected analytes from 1st Quarter 2000 through 1st Semester 2012. Analytical data from monitoring events conducted by Basic Remediation Company in the Common Areas (dowgradient wells) have been imported into the TIMET analytical database and are presented on their respective trend graphs to provide a historical perspective dating back to 2007.

Isoconcentration maps suggest that the plumes are relatively unchanged with no major shift in geometry for the selected analytes during 2nd Semester 2011 and 1st Semester 2012.

3.1 GROUNDWATER CONDITIONS

The following sections discuss the general hydrogeologic characteristics of the water table aquifer (for example, depth to groundwater and potentiometric surface of groundwater) at the TIMET facility for this reporting period.

3.1.1 Depth to Groundwater

Table 3-1 summarizes groundwater levels for the well locations shown in Figure 1-2. Hydrographs showing water level trends for the well locations shown in Figure 1-2 are presented in Appendix B. Water levels in wells J2U1, AA-15, AA-20, and POD-2R were gauged during these events; however, insufficient screen submergence precluded sampling these wells for chemical analysis. A water level was not recorded for well AA-19 during this reporting period as the well was completely dry during the monitoring events. CLD2-R and CLD3-R were not gauged during this reporting period as these wells were abandoned on February 2, 2010. Table 2-2 presents monitoring well construction details for wells monitored during the reporting period.

3.1.2 Potentiometric Surface of Groundwater

Figure 3-1 shows the potentiometric surface for the water table aquifer and the direction of groundwater flow for the 1st Semester, 2012 sampling event based on data from the well locations shown on Figure 1-2. The hydraulic gradient is approximately 0.02 to 0.03 ft/ft in a northerly direction, mimicking the topographic slope toward the Las Vegas Wash.

3.2 ANALYTICAL RESULTS

This section summarizes the distribution of analytes in groundwater for the 2nd Semester, 2011 and 1st Semester, 2012. All data from this event were validated according to current NDEP guidelines and have been assigned validation qualifiers based on quality control measurements, as defined in the table below.

Stable Chemistry Validation Qualifiers and Definitions	
U	The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.
UJ	The analyte was analyzed for, but was not detected. The reported sample quantitation limit is approximate and may be estimated.
J	The result is an estimated quantity. The associated numerical value is an approximate concentration of the analyte in the sample.
R	The result is rejected. The associated numerical value is rejected due to quality issues that seriously affect the result.

The U qualifier indicates that the analyte was not detected, and the value reported is the sample quantitation limit (SQL). The U qualifier does not imply any data quality issue, but is simply a statement that the analyte was not detected at the reported SQL. The other qualifiers listed in the table above imply that because of some issue with associated QC samples or criteria, the sample result or SQL may be questioned. During the course of data validation, the reviewer evaluated each of the QC criteria and determined if the issue had an impact on data quality. For all analytes, the J qualifier indicates that the reported value is estimated and the R qualifier indicates that the reported value is rejected. Results are considered estimated or rejected when QC issues could affect data quality and are assigned a bias (+/-) where applicable.

Tables 3-2 through 3-46 summarize the results of groundwater monitoring at the well locations shown in Figure 1-2, including the validation qualifiers. These tables are provided electronically on the enclosed compact disc. Reported values that exceed the relevant screening level are highlighted in bold in the tables. The tables were generated from the TIMET electronic database and contain a set of notes defining data qualifiers. Not all notes may be pertinent to every table. Note that values highlighted in bold font in Tables 3-2 through 3-46 indicate that either the result or the reporting limit exceeds the screening level during this reporting period.

Concentration trend graphs for selected analytes for the 1st quarter 2000 through 1st Semester 2012 are provided in Appendix C. Isoconcentration maps for selected analytes during the 2nd Semester, 2011 are provided in Appendix D and isoconcentration maps for selected analytes during the 1st Semester, 2012 are provided in Appendix E.

3.2.1 Anions and TDS and Cation-Anion Balance and TDS Ratios

The dominant anions comprising the TDS observed in Plant Site groundwater are sulfate and chloride with notable concentrations of perchlorate (Figures D-6 and E-6). Perchlorate is ubiquitous throughout the Plant Site. When mapped on a regional scale, perchlorate contours on TIMET Plant Site represent the eastern edge of the perchlorate plume sourced from the Tronox facility located to the immediate west of the Plant Site.

In late September 2009, NDEP released a letter regarding the analysis and evaluation of cation-anion balance (CAB) in groundwater (NDEP 2009). This analysis and evaluation was conducted during this reporting semester and included: (1) cation-anion balance, (2) measured TDS versus calculated TDS, and (3) TDS versus EC. For the CAB evaluation, the anions and cations used in the calculation include the following:

- Anions – Bicarbonate, carbonate, chloride, fluoride, nitrate as nitrogen, perchlorate, and sulfate
- Cations – Calcium, magnesium, potassium and sodium

Note that hydroxide was not included in the anion calculation, because the pH of the groundwater was less than 10. The acceptable difference between the anion and cation sums is 5 percent. Most of the wells in this event exhibited acceptable CAB results (less or equal to 5%). The following wells did not meet the 5% CAB criterion for at least one of the events during this reporting period:

- CLDR-1, CLDR-4, J2D4, MW-4, MW-5, PC-24, and PC-28

It should be noted that well PC-24 did not meet the 5% CAB criterion for both monitoring events during this reporting period.

CAB evaluations were not conducted on the following wells for the reasons stated below:

- CMT-101, M-129, M-130, TMPZ-106, TPMZ-107, TMPZ-108, TPMZ-109, and TMPZ-110

These wells were not evaluated because of an incomplete dataset.

For the evaluation of measured TDS versus calculated TDS, the same anions and cations listed in the CAB discussion above were used. The ratios of measured TDS (reported directly from Paragon) and calculated TDS were computed according to the formula recommended by NDEP. The acceptable ratio is greater than or equal to 1.0, but less than or equal to 1.2. The TDS ratio was unacceptable for the following wells for at least one of the reporting period events:

- AA-01, CLDR-4, J2D2-R2, J2D4, MW-5, PC-024 (both events), PC-28, and PC-67

For the evaluation of TDS versus EC, the ratio of TDS against the field measurement of EC was calculated. NDEP's acceptable limits are 0.54 to 0.96. A plot of TDS versus EC results for both events is included as Figure 3-2. All wells in this event exhibited acceptable results for TDS to EC ratio with the exception of the 1st Semester, 2012 event for well AA-01.

CAB analysis, TDS ratios, and TDS to EC ratios are summarized in Table 3-47. The calculated percent differences and ratios were compared to the appropriate acceptance criteria and reported as "acceptable" or "unacceptable" accordingly. Based on the findings shown in Table 3-47, the anion, cation, and/or TDS results were qualified as estimated when acceptance criteria were not met.

3.2.2 Metals

Metals exceeding EPA National Drinking Water Standards Maximum Contaminant Levels (MCLs) or secondary MCLs are arsenic, chromium, uranium, and manganese in Plant Site groundwater. Metals exceeding Basic Comparison Levels for residential water in at least one well include: molybdenum, lithium, aluminum, vanadium, and iron. The following discussion focuses on metals exceeding the MCL which generally represent the greatest risk.

Arsenic (Figures D-1 and E-1) exceeds the MCL (10 µg/L) in every well monitored within the Plant Site. Wells located along the western property boundary report the highest Plant Site arsenic concentrations with concentrations decreasing to the east. When analyzed from a regional perspective, elevated arsenic in groundwater is encroaching from facilities west of the Plant Site on to TIMET property.

Chromium (Figures D-2 and E-2) exceeds the MCL (100 µg/L) in wells located in the northwestern portion of the TIMET Plant Site. The chromium observed in groundwater is primarily comprised of

hexavalent chromium (Figures D-3 and E-3). As the contours depict, chromium observed on the TIMET Plant Site represents the eastern edge of the well documented hexavalent chromium plume encroaching from the western Tronox facility.

Uranium (Figure D-12) exceeds the MCL (30 µg/L) in most wells located in the north half of the TIMET Plant Site. The highest uranium concentrations for the 2nd Semester 2011 are observed in PC-067 at 140 µg/L, PC-054 at 130 µg/L, and J2U2 at 130 µg/L and for the 1st Semester 2012 are observed in PC-067 at 150 µg/L, PC-028 at 120 µg/L, and J2U2 at 120 µg/L. As depicted on Figure D-12 elevated uranium is centered in the middle of the Plant Site.

Manganese (Figure D-4) in Plant Site groundwater is highest in monitoring wells located along the western property boundary with Tronox. The highest manganese concentrations for 2nd Semester 2011 are reported in CLD4-R at 770 µg/L and CLD1-R at 170 µg/L and for 1st Semester 2012 are reported in CLD4-R at 170 µg/L and TMPZ-107 at 150 µg/L. These wells represent the edge of the 50 µg/L contour extending onto the TIMET Plant Site. From a regional perspective, manganese contours suggest a plume of elevated manganese is sourced at Tronox.

During the semester, analyte concentrations in most Plant Site wells remained relatively unchanged and were generally within the historical range of concentrations when compared to the last reporting period with the following noted exception:

- Since 2001 vanadium concentrations in monitoring well CLD4-R have varied between 8,000 µg/L to 12,000 µg/L with a notable decrease (<3,000 µg/L) in July 2004 followed by a peak (>12,000 µg/L) in the fourth quarter of 2004 (see Figure C-39). Vanadium concentrations rebounded to about 11,000 µg/L during 2005 and then experienced another notable drop (<6,000 µg/L) in July 2006. In 2007, vanadium concentrations once again rebounded to about 11,000 µg/L with another albeit modest decrease (<7,000 µg/L) in July 2008. Since the last seasonal decrease, vanadium concentrations in CLD4-R have increased to a peak concentration of 13,000 µg/L in April 2010. 2nd semester 2011 reported vanadium concentrations with a decrease to about 11,000 µg/L and are currently reported at 12,000 µg/L for 1st semester 2012. Inspection of the vanadium data in monitoring locations within the vicinity of CLD4-R report concentrations at or less than 100 µg/L. The highest vanadium concentration reported in 2009 at the Tronox facility was 127 µg/L (Figure E-4). It appears that elevated vanadium of this magnitude is isolated to this location.

Regional portrayal of metals in downgradient groundwater varies depending upon the analyte and availability of data. Because TIMET's downgradient dataset is only a small subset of the existing monitoring well network in the downgradient areas (not routinely sampled and analyzed), depiction of arsenic (Figures D-1 and E-1), manganese (Figures D-4 and E-4), and uranium (Figures D-12 and E-12) do not delineate the extent of these metals within the downgradient areas from all source areas. During the this reporting period, analyte concentrations in most downgradient wells remained relatively unchanged and were generally within the historical range of concentrations when compared to the last reporting period with the following noted exceptions:

- Chromium concentrations in monitoring well POU-3 have been decreasing since the last report in the 1st Semester, 2011 from 530 µg/L to the current concentration of 120 µg/L. Chromium concentrations in PC-67 have decreased to 440 µg/L in the 1st Semester, 2012 after a reported maximum concentration of 1,200 µg/L observed in late 2010.

- Arsenic concentrations in monitoring well AA-UW1 had increased to 110 µg/L in the 2nd Semester, 2011, but decreased to 62 µg/L for 1st Semester, 2012.

- Iron concentrations in monitoring well PC-028 have increased from 100 µg/L in the 2nd Semester, 2011 to 600 µg/L in the 1st Semester, 2012.

- Uranium concentrations in monitoring well PC-54 were decreasing from the maximum reported value of 160 µg/L in August 2007 until 2011 when they increased to a reported value of 130 µg/L, but have since decreased to 100 µg/L during the 1st Semester, 2012. Uranium in monitoring well PC-67 decreased to 110 µg/L in 2010, but has since increased to 150 µg/L during the 2nd Semester, 2012. Uranium concentrations in PC-28 have increased since the historic low of 90 µg/L first reported in August 2007 to a current concentration of 120 µg/L.

3.2.3 Radionuclides

No radio isotopes exceeded their respective MCLs during this reporting period. Several of the "J2" wells reported detectable levels albeit less than 5 pCi/L combined radium as depicted on Figures D-7 and E-7. Radon in groundwater is prevalent throughout the BMI Complex and Plant Site. Upgradient (Lake Mead) wells have exceeded the screening level of 300 pCi/L (proposed rule) when monitored. Radon concentrations in groundwater increase at the northern property boundary to an approximate historical

average of 1,700 pCi/L. Radon 222 is a decay isotope of uranium-238 and the distribution of uranium as a metal is presented on Figures D-12 and E-12 and discussed in the previous Section 3.2.2.

3.2.4 Volatile Organic Compounds

Volatiles exceeding their respective MCLs in Plant Site groundwater include tetrachloroethene (PCE), trichloroethene (TCE), total trihalomethanes (TTHM), and carbon tetrachloride. A stable and well defined PCE plume is depicted on Figures D-9 and E-9. Off-site migration of the PCE plume is evident and is monitored under this program. A significantly smaller TCE plume exists within the PCE plume. Carbon tetrachloride is elevated above the MCL in two (2) monitoring wells located along the western Plant Site boundary (CLD3-R [historic], and CLD4-R). The report authors are not aware of a regional plume of carbon tetrachloride. However, TTHMs have been reported throughout the BMI Complex and are believed to be sourced at the Olin, Stauffer, Pioneer, and Montrose facilities TTHMs, depicted on Figures D-11 and E-11, are prevalent throughout the northwestern TIMET Plant Site and have been found at depth.

During the past quarter, VOC concentrations in onsite wells remained relatively unchanged and were within the historical range of concentrations when compared to the last reporting period with the following noted exceptions:

- Trichloroethene (TCE) and 1,2-Dichloropropane concentrations in monitoring well TIMETMW-3R continue to be elevated above the MCL (see Figure C-37 and Table 3-14). In April of 2011, TCE concentrations were at the highest reported value observed at this location since monitoring began in 2009, but the concentrations have decreased slightly during the last two events to 20 µg/L. in the 1st Semester of 2012. This well was installed in 2009 as a replacement well for TIMETMW-3 which was abandoned for utility construction associated with the Lake Mead Shopping Center. TCE and 1,2-Dichloropropane concentrations in former well TIMETMW-3 were repeatedly not detected above laboratory detection limits. Insufficient upgradient monitoring data exist to evaluate whether the source is located upgradient (and potentially off-site) or generalized to the area. This represents a data gap under the Environmental Conditions Investigation and will be carried forward as such.

The occurrence of VOCs in the downgradient areas are generally dominated by TTHMs, PCE and TCE. Further west, groundwater is impacted by the former Olin, Syngenta, Stauffer, and Montrose (OSSM)

facility with benzene, chlorobenzenes and organochlorine pesticides. In fact, this site is believed to be one of the main sources of trihalomethanes, in the form of chloroform, observed in groundwater throughout the BMI Complex and in downgradient areas. TIMET understands the OSSM investigators have an extensive downgradient monitoring program in place to monitor and report on the regional downgradient conditions as they pertain to site releases and their remediation program. TIMET, however, developed its downgradient monitoring program specifically to monitor PCE in the downgradient areas. PCE concentrations in groundwater are well defined as depicted on Figures D-9 and E-9 with the exception of the eastern flank since sentinel wells (AA-15 and AA-19) have recently become dry.

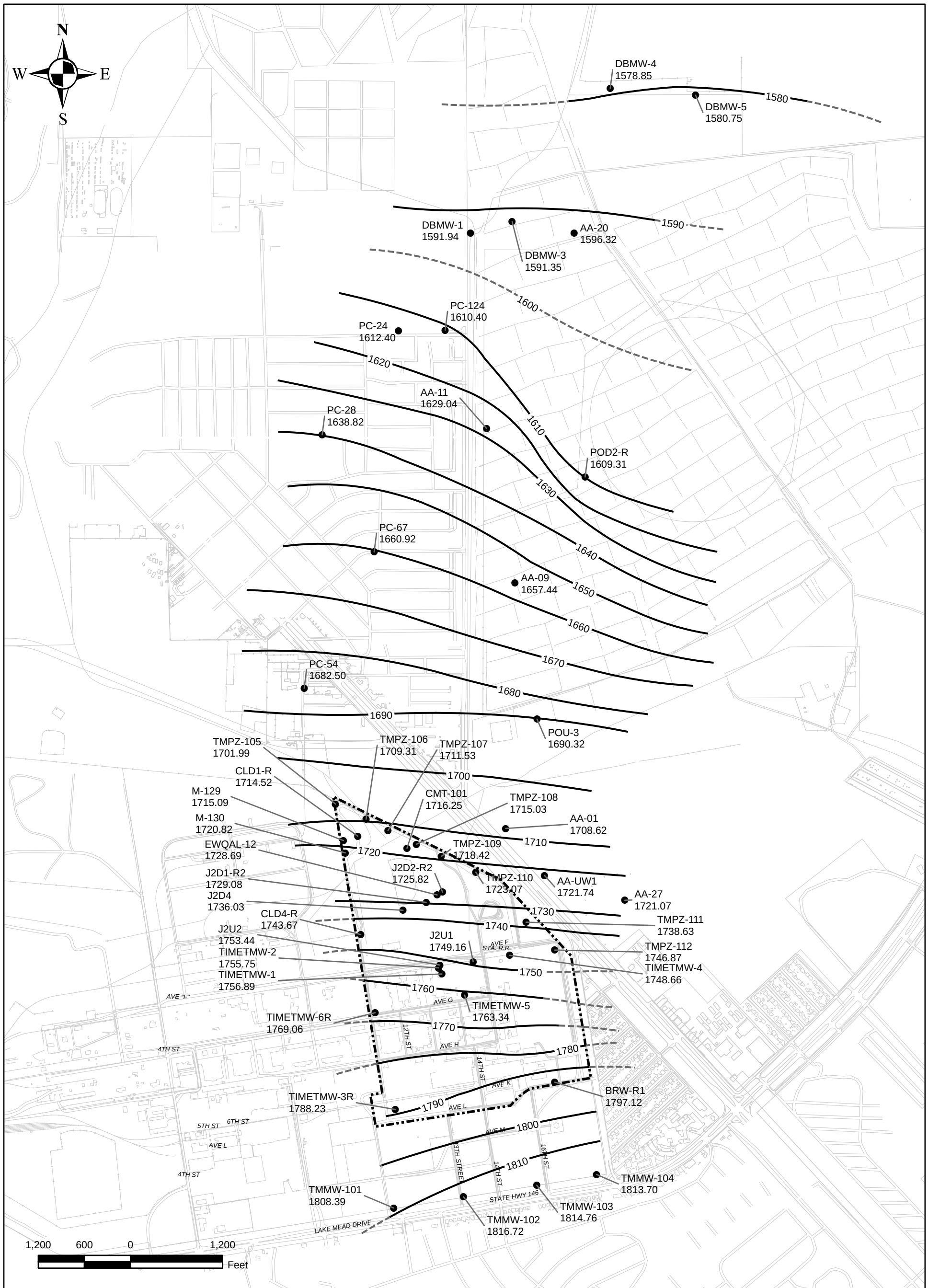
During the reporting period, VOC concentrations in downgradient wells remained relatively unchanged and were within the historical range of concentrations when compared to the last reporting period with the following noted exceptions:

- PCE concentrations in monitoring well AA-01 have been decreasing since first monitored in January 2007 (175 µg/L) to the current concentration of 44 µg/L. PCE concentrations in monitoring well AA-UW1 were increasing until the 1st semester 2011 where it decreased to 27 µg/L, but then increased to 38 µg/L for the 2nd Semester, 2011 and 1st Semester, 2012. Finally, PCE concentrations in POU-3 have recently increased from less than 10 µg/L in April of 2011 to a high of 39 µg/L in April of 2012.

- TTHMs are generally decreasing in monitoring wells PC-67 and PC-24 albeit with concentrations remaining an order of magnitude above the MCL of 80 µg/L. TTHMs have also been decreasing in monitoring wells PC-54 and PC-28 and are now below the MCL. Monitoring well POU-3 has reported the highest TTHMs concentrations at above 1,000 µg/L with a peak concentration observed in October 2010 of 1,258 µg/L. However, recent TTHMs concentrations report a significant drop in POU-3 to 354 µg/L in the 1st Semester, 2012. It should be noted that this network of wells does not accurately portray the complete regional extent of TTHMs since they are not located far enough west to monitor areas immediately downgradient from the OSSM facility.

- Carbon tetrachloride in monitoring wells POU-3 and PC-67 reported maximum concentrations during the last semester of 2010. During the 1st Semester, 2012, carbon tetrachloride returned to historical levels (7.3 µg/L) in PC-67 (remaining above the MCL of 5 µg/L) and decreased dramatically in POU-3 to 4.2 µg/L (below the MCL of 5 µg/L).

FIGURES



BRW-R1
1797.12● MONITORING WELL WITH GROUNDWATER ELEVATION (FEET ABOVE MEAN SEA LEVEL)

WATER LEVEL CONTOUR

APPROXIMATE WATER LEVEL CONTOUR

NOTE: All wells gauged April 2012.

2012 Annual Groundwater Monitoring Report
Titanium Metals Corporation
Henderson, Nevada

FIGURE 3-1
POTENTIOMETRIC SURFACE MAP
1ST SEMESTER 2012

TIMET

2012-08-13 C:\TIMET\1stSEM2012\mxd\TIMET_siteWL_S12011.mxd michelle.handley

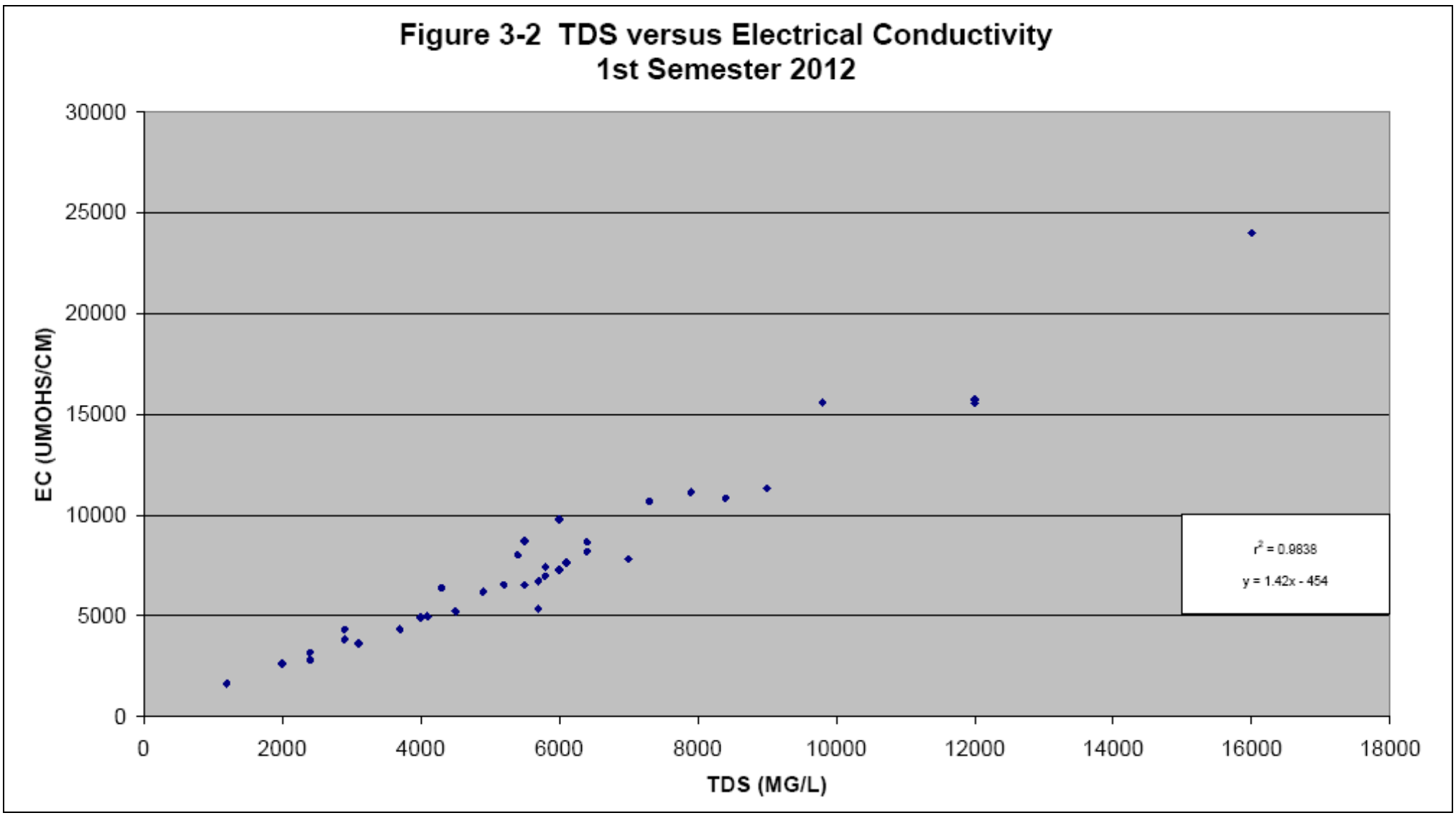


Figure 3-2 TDS versus Electrical Conductivity
1st Semester 2012
EC (UMOHS/CM)
TDS (MG/L)
30000
25000
20000
15000
10000
5000
0
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
r² = 0.9838
y = 1.42x - 454

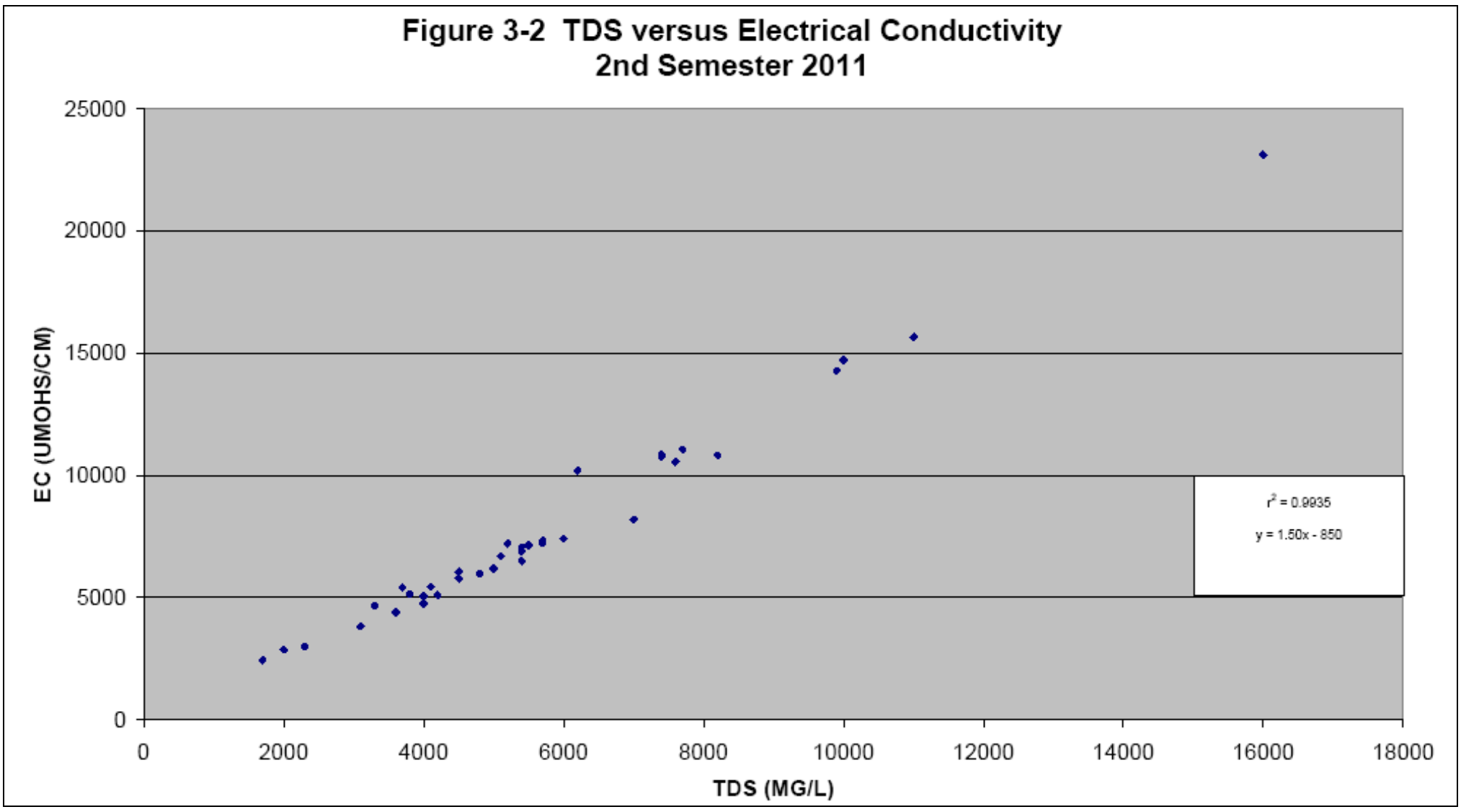


Figure 3-2 TDS versus Electrical Conductivity
2nd Semester 2011
EC (UMOHS/CM)
TDS (MG/L)
25000
20000
15000
10000
5000
0
0
2000
4000
6000
8000
10000
12000
14000
16000
18000
r² = 0.9935
y = 1.50x - 850

TABLES

Table 3-1
GROUNDWATER ELEVATION DATA
2012 ANNUAL GROUNDWATER MONITORING REPORT

Monitor Well	UTM Y Zone North-South Coordinates in Meters	UTM Y Zone East-West Coordinates in Meters	Casing Elevation	Date Measured	Depth to Water	Groundwater Elevation
AA-01	26720238.47	830921.121	1757.13	20-Apr-10	47.33	1709.8
AA-01	26720238.47	830921.121	1754.93	06-Oct-10	47.9	1707.03
AA-01	26720238.47	830921.121	1757.13	05-Apr-11	47.93	1709.2
AA-01	26720238.47	830921.121	1757.13	03-Oct-11	48.35	1708.78
AA-01	26720238.47	830921.121	1757.13	11-Apr-12	48.51	1708.62
AA-09	26723441.4	831041.587	1696.23	22-Apr-10	38.23	1658
AA-09	26723441.4	831041.587	1694.11	13-Oct-10	38.57	1655.54
AA-09	26723441.4	831041.587	1696.23	14-Apr-11	38.52	1657.71
AA-09	26723441.4	831041.587	1696.23	03-Oct-11	38.71	1657.52
AA-09	26723441.4	831041.587	1696.23	03-Apr-12	38.79	1657.44
AA-11	26725458.78	830672.661	1660.05	28-Apr-10	30.38	1629.67
AA-11	26725458.78	830672.661	1660.05	12-Oct-10	30.76	1627.24
AA-11	26725458.78	830672.661	1660.05	12-Apr-11	30.74	1629.31
AA-11	26725458.78	830672.661	1660.05	03-Oct-11	30.9	1629.15
AA-11	26725458.78	830672.661	1660.05	10-Apr-12	31.01	1629.04
AA-20	26728007.71	831811.844	1628.49	22-Apr-10	32.22	1596.27
AA-20	26728007.71	831811.844	1626.07	12-Oct-10	31.56	1594.51
AA-20	26728007.71	831811.844	1628.49	12-Apr-11	31.67	1596.82
AA-20	26728007.71	831811.844	1628.49	03-Oct-11	31.97	1596.52
AA-20	26728007.71	831811.844	1628.49	10-Apr-12	32.17	1596.32
AA-27	26719301.66	832471.341	1789.38	20-Apr-10	67.91	1721.47
AA-27	26719301.66	832471.341	1786.85	05-Oct-10	68.17	1718.68
AA-27	26719301.66	832471.341	1789.38	04-Apr-11	67.19	1722.19
AA-27	26719301.66	832471.341	1789.38	03-Oct-11	68.33	1721.05
AA-27	26719301.66	832471.341	1789.38	03-Apr-12	68.31	1721.07
AA-UW1	26719624.99	831427.2049	1774.63	19-Apr-10	51.79	1722.83805
AA-UW1	26719624.99	831427.2049	1774.63	05-Oct-10	52.25	1722.37805
AA-UW1	26719624.99	831427.2049	1774.63	05-Apr-11	52.22	1722.41
AA-UW1	26719624.99	831427.2049	1774.63	16-Apr-12	52.89	1721.74
BRW-R1	26716928.1	831558.8405	1844.15	21-Mar-00	47.13	1797.02
BRW-R1	26716928.1	831558.8405	1844.15	20-Jun-00	47.57	1796.58
BRW-R1	26716928.1	831558.8405	1844.15	19-Sep-00	47.75	1796.4
BRW-R1	26716928.1	831558.8405	1844.15	13-Dec-00	47.51	1796.64
BRW-R1	26716928.1	831558.8405	1844.15	13-Mar-01	47.16	1796.99
BRW-R1	26716928.1	831558.8405	1844.15	12-Jun-01	47.05	1797.1
BRW-R1	26716928.1	831558.8405	1844.15	25-Sep-01	47.5	1796.65
BRW-R1	26716928.1	831558.8405	1844.15	11-Dec-01	47.2	1796.95
BRW-R1	26716928.1	831558.8405	1844.15	12-Mar-02	47.04	1797.11
BRW-R1	26716928.1	831558.8405	1844.15	11-Jun-02	47.7	1796.45
BRW-R1	26716928.1	831558.8405	1844.15	25-Sep-02	48	1796.15
BRW-R1	26716928.1	831558.8405	1844.15	17-Dec-02	47.55	1796.6

Table 3-1
GROUNDWATER ELEVATION DATA
2012 ANNUAL GROUNDWATER MONITORING REPORT

Monitor Well	UTM Y Zone North-South Coordinates in Meters	UTM Y Zone East-West Coordinates in Meters	Casing Elevation	Date Measured	Depth to Water	Groundwater Elevation
BRW-R1	26716928.1	831558.8405	1844.15	25-Mar-03	47.5	1796.65
BRW-R1	26716928.1	831558.8405	1844.15	25-Jun-03	48.09	1796.06
BRW-R1	26716928.1	831558.8405	1844.15	24-Sep-03	49.08	1795.07
BRW-R1	26716928.1	831558.8405	1844.15	22-Dec-03	47.77	1796.38
BRW-R1	26716928.1	831558.8405	1844.15	10-Feb-04	47.87	1796.28
BRW-R1	26716928.1	831558.8405	1844.15	28-Apr-04	48.17	1795.98
BRW-R1	26716928.1	831558.8405	1844.15	21-Jul-04	48.42	1795.73
BRW-R1	26716928.1	831558.8405	1844.15	25-Oct-04	48.45	1795.7
BRW-R1	26716928.1	831558.8405	1844.15	11-Feb-05	47.85	1796.3
BRW-R1	26716928.1	831558.8405	1844.15	26-Apr-05	46.8	1797.35
BRW-R1	26716928.1	831558.8405	1844.15	28-Jul-05	47.2	1796.95
BRW-R1	26716928.1	831558.8405	1844.15	27-Oct-05	45.75	1798.4
BRW-R1	26716928.1	831558.8405	1844.15	24-Jan-06	46.48	1797.67
BRW-R1	26716928.1	831558.8405	1844.15	21-Apr-06	47.38	1796.77
BRW-R1	26716928.1	831558.8405	1844.15	20-Jul-06	47.99	1796.16
BRW-R1	26716928.1	831558.8405	1844.15	18-Oct-06	46.4	1797.75
BRW-R1	26716928.1	831558.8405	1844.15	23-Jan-07	47.34	1796.81
BRW-R1	26716928.1	831558.8405	1844.15	09-Apr-07	47.8	1796.35
BRW-R1	26716928.1	831558.8405	1844.15	17-Jul-07	47.98	1796.17
BRW-R1	26716928.1	831558.8405	1844.15	21-Jan-08	47.13	1797.02
BRW-R1	26716928.1	831558.8405	1844.15	28-Apr-08	47.35	1796.8
BRW-R1	26716928.1	831558.8405	1844.15	21-Jul-08	47.98	1796.17
BRW-R1	26716928.1	831558.8405	1844.15	12-Jan-09	46.21	1797.94
BRW-R1	26716928.1	831558.8405	1844.15	06-Jul-09	46.58	1797.57
BRW-R1	26716928.1	831558.8405	1843.88	13-Apr-10	46.34	1797.54
BRW-R1	26716928.1	831558.8405	1843.88	06-Oct-10	46.87	1797.01
BRW-R1	26716928.1	831558.8405	1843.88	07-Apr-11	46.89	1796.99
BRW-R1	26716928.1	831558.8405	1843.88	03-Oct-11	46.62	1797.26
BRW-R1	26716928.1	831558.8405	1843.88	02-Apr-12	46.76	1797.12
CLD1-R	26720138.24	828993.7209	1745.19	23-Mar-00	25.2	1719.99
CLD1-R	26720138.24	828993.7209	1745.19	22-Jun-00	25.98	1719.21
CLD1-R	26720138.24	828993.7209	1745.19	21-Sep-00	26.4	1718.79
CLD1-R	26720138.24	828993.7209	1745.19	14-Dec-00	26.82	1718.37
CLD1-R	26720138.24	828993.7209	1745.19	15-Mar-01	26.37	1718.82
CLD1-R	26720138.24	828993.7209	1745.19	14-Jun-01	27.29	1717.9
CLD1-R	26720138.24	828993.7209	1745.19	27-Sep-01	27.74	1717.45
CLD1-R	26720138.24	828993.7209	1745.19	13-Dec-01	27.85	1717.34
CLD1-R	26720138.24	828993.7209	1745.19	12-Mar-02	27.9	1717.29
CLD1-R	26720138.24	828993.7209	1745.19	11-Jun-02	27.3	1717.89
CLD1-R	26720138.24	828993.7209	1745.19	01-Sep-02	28.15	1717.04
CLD1-R	26720138.24	828993.7209	1745.19	19-Dec-02	28.2	1716.99

Table 3-1
GROUNDWATER ELEVATION DATA
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Monitor Well	UTM Y Zone North-South Coordinates in Meters	UTM Y Zone East-West Coordinates in Meters	Casing Elevation	Date Measured	Depth to Water	Groundwater Elevation
CLD1-R	26720138.24	828993.7209	1745.19	27-Mar-03	28.16	1717.03
CLD1-R	26720138.24	828993.7209	1745.19	26-Jun-03	28.6	1716.59
CLD1-R	26720138.24	828993.7209	1745.19	25-Sep-03	28.88	1716.31
CLD1-R	26720138.24	828993.7209	1745.19	23-Dec-03	29.15	1716.04
CLD1-R	26720138.24	828993.7209	1745.19	11-Feb-04	29.31	1715.88
CLD1-R	26720138.24	828993.7209	1745.19	29-Apr-04	29.08	1716.11
CLD1-R	26720138.24	828993.7209	1745.19	22-Jul-04	29.65	1715.54
CLD1-R	26720138.24	828993.7209	1745.19	26-Oct-04	29.79	1715.4
CLD1-R	26720138.24	828993.7209	1745.19	11-Feb-05	26.85	1718.34
CLD1-R	26720138.24	828993.7209	1745.19	28-Apr-05	27.26	1717.93
CLD1-R	26720138.24	828993.7209	1745.19	27-Jul-05	27.29	1717.9
CLD1-R	26720138.24	828993.7209	1745.19	27-Oct-05	25.57	1719.62
CLD1-R	26720138.24	828993.7209	1745.19	19-Jan-06	26.85	1718.34
CLD1-R	26720138.24	828993.7209	1745.19	18-Apr-06	24.99	1720.2
CLD1-R	26720138.24	828993.7209	1745.19	17-Jul-06	27.44	1717.75
CLD1-R	26720138.24	828993.7209	1745.19	17-Oct-06	26.73	1718.46
CLD1-R	26720138.24	828993.7209	1745.19	24-Jan-07	25.53	1719.66
CLD1-R	26720138.24	828993.7209	1745.19	09-Apr-07	28.67	1716.52
CLD1-R	26720138.24	828993.7209	1745.19	17-Jul-07	29.26	1715.93
CLD1-R	26720138.24	828993.7209	1745.19	22-Oct-07	29.81	1715.38
CLD1-R	26720138.24	828993.7209	1745.19	21-Jan-08	30.03	1715.16
CLD1-R	26720138.24	828993.7209	1745.19	28-Apr-08	30.25	1714.94
CLD1-R	26720138.24	828993.7209	1745.19	21-Jul-08	30.81	1714.38
CLD1-R	26720138.24	828993.7209	1745.19	12-Jan-09	30.46	1714.73
CLD1-R	26720138.24	828993.7209	1745.19	06-Jul-09	30.45	1714.74
CLD1-R	26720138.24	828993.7209	1745.42	27-Apr-10	28.98	1716.44
CLD1-R	26720138.24	828993.7209	1745.42	13-Oct-10	29.34	1716.08
CLD1-R	26720138.24	828993.7209	1745.42	21-Apr-11	29.65	1715.77
CLD1-R	26720138.24	828993.7209	1745.42	02-Apr-12	30.9	1714.52
CLD2-R	26719965.9	828920.8521	1753.14	23-Mar-00	30.14	1723
CLD2-R	26719965.9	828920.8521	1753.14	22-Jun-00	30.87	1722.27
CLD2-R	26719965.9	828920.8521	1753.14	21-Sep-00	31.28	1721.86
CLD2-R	26719965.9	828920.8521	1753.14	14-Dec-00	31.65	1721.49
CLD2-R	26719965.9	828920.8521	1753.14	15-Mar-01	31.01	1722.13
CLD2-R	26719965.9	828920.8521	1753.14	14-Jun-01	31.94	1721.2
CLD2-R	26719965.9	828920.8521	1753.14	27-Sep-01	32.29	1720.85
CLD2-R	26719965.9	828920.8521	1753.14	13-Dec-01	32.17	1720.97
CLD2-R	26719965.9	828920.8521	1753.14	12-Mar-02	31.95	1721.19
CLD2-R	26719965.9	828920.8521	1753.14	11-Jun-02	31.05	1722.09
CLD2-R	26719965.9	828920.8521	1753.14	01-Sep-02	31.95	1721.19
CLD2-R	26719965.9	828920.8521	1753.14	19-Dec-02	32	1721.14

Table 3-1
GROUNDWATER ELEVATION DATA
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Monitor Well	UTM Y Zone North-South Coordinates in Meters	UTM Y Zone East-West Coordinates in Meters	Casing Elevation	Date Measured	Depth to Water	Groundwater Elevation
CLD2-R	26719965.9	828920.8521	1753.14	27-Mar-03	31.94	1721.2
CLD2-R	26719965.9	828920.8521	1753.14	26-Jun-03	32.38	1720.76
CLD2-R	26719965.9	828920.8521	1753.14	25-Sep-03	32.42	1720.72
CLD2-R	26719965.9	828920.8521	1753.14	23-Dec-03	35.2	1717.94
CLD2-R	26719965.9	828920.8521	1753.14	11-Feb-04	35.23	1717.91
CLD2-R	26719965.9	828920.8521	1753.14	29-Apr-04	32.4	1720.74
CLD2-R	26719965.9	828920.8521	1753.14	22-Jul-04	35.18	1717.96
CLD2-R	26719965.9	828920.8521	1753.14	26-Oct-04	32.42	1720.72
CLD2-R	26719965.9	828920.8521	1753.14	11-Feb-05	30.12	1723.02
CLD2-R	26719965.9	828920.8521	1753.14	26-Apr-05	30.74	1722.4
CLD2-R	26719965.9	828920.8521	1753.14	27-Jul-05	30.4	1722.74
CLD2-R	26719965.9	828920.8521	1753.14	28-Oct-05	28.59	1724.55
CLD2-R	26719965.9	828920.8521	1753.14	19-Jan-06	30.48	1722.66
CLD2-R	26719965.9	828920.8521	1753.14	18-Apr-06	28.45	1724.69
CLD2-R	26719965.9	828920.8521	1753.14	17-Jul-06	31.16	1721.98
CLD2-R	26719965.9	828920.8521	1753.14	17-Oct-06	29.72	1723.42
CLD2-R	26719965.9	828920.8521	1753.14	25-Jan-07	28.85	1724.29
CLD2-R	26719965.9	828920.8521	1753.14	09-Apr-07	32.27	1720.87
CLD2-R	26719965.9	828920.8521	1753.14	17-Jul-07	32.37	1720.77
CLD2-R	26719965.9	828920.8521	1753.14	22-Oct-07	34.24	1718.9
CLD2-R	26719965.9	828920.8521	1753.14	21-Jan-08	34.71	1718.43
CLD2-R	26719965.9	828920.8521	1753.14	28-Apr-08	34.91	1718.23
CLD2-R	26719965.9	828920.8521	1753.14	21-Jul-08	35.44	1717.7
CLD2-R	26719965.9	828920.8521	1753.14	12-Jan-09	35.42	1717.72
CLD2-R	26719965.9	828920.8521	1753.14	06-Jul-09	35.37	1717.77
CLD3-R	26720010.74	829651.41	1752.24	23-Mar-00	28.89	1723.35
CLD3-R	26720010.74	829651.41	1752.24	20-Jun-00	29.48	1722.76
CLD3-R	26720010.74	829651.41	1752.24	21-Sep-00	29.87	1722.37
CLD3-R	26720010.74	829651.41	1752.24	14-Dec-00	32.2	1720.04
CLD3-R	26720010.74	829651.41	1752.24	15-Mar-01	30.51	1721.73
CLD3-R	26720010.74	829651.41	1752.24	14-Jun-01	30.81	1721.43
CLD3-R	26720010.74	829651.41	1752.24	01-Sep-01	31.14	1721.1
CLD3-R	26720010.74	829651.41	1752.24	13-Dec-01	31.47	1720.77
CLD3-R	26720010.74	829651.41	1752.24	12-Mar-02	31.9	1720.34
CLD3-R	26720010.74	829651.41	1752.24	11-Jun-02	32.25	1719.99
CLD3-R	26720010.74	829651.41	1752.24	25-Sep-02	32.8	1719.44
CLD3-R	26720010.74	829651.41	1752.24	19-Dec-02	33.1	1719.14
CLD3-R	26720010.74	829651.41	1752.24	27-Mar-03	33.17	1719.07
CLD3-R	26720010.74	829651.41	1752.24	26-Jun-03	33.51	1718.73
CLD3-R	26720010.74	829651.41	1752.24	25-Sep-03	34.03	1718.21
CLD3-R	26720010.74	829651.41	1752.24	23-Dec-03	34.43	1717.81

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GROUNDWATER ELEVATION DATA
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Monitor Well	UTM Y Zone North-South Coordinates in Meters	UTM Y Zone East-West Coordinates in Meters	Casing Elevation	Date Measured	Depth to Water	Groundwater Elevation
CLD3-R	26720010.74	829651.41	1752.24	22-Feb-04	34.57	1717.67
CLD3-R	26720010.74	829651.41	1752.24	29-Apr-04	34.59	1717.65
CLD3-R	26720010.74	829651.41	1752.24	22-Jul-04	34.97	1717.27
CLD3-R	26720010.74	829651.41	1752.24	26-Oct-04	35.38	1716.86
CLD3-R	26720010.74	829651.41	1752.24	08-Feb-05	33.61	1718.63
CLD3-R	26720010.74	829651.41	1752.24	28-Apr-05	33.02	1719.22
CLD3-R	26720010.74	829651.41	1752.24	26-Jul-05	33.08	1719.16
CLD3-R	26720010.74	829651.41	1752.24	27-Oct-05	32.88	1719.36
CLD3-R	26720010.74	829651.41	1752.24	18-Jan-06	32.46	1719.78
CLD3-R	26720010.74	829651.41	1752.24	19-Apr-06	32.34	1719.9
CLD3-R	26720010.74	829651.41	1752.24	20-Jul-06	33.18	1719.06
CLD3-R	26720010.74	829651.41	1752.24	17-Oct-06	33.91	1718.33
CLD3-R	26720010.74	829651.41	1752.24	24-Jan-07	33.91	1718.33
CLD3-R	26720010.74	829651.41	1752.24	09-Apr-07	33.98	1718.26
CLD3-R	26720010.74	829651.41	1752.24	17-Jul-07	34.76	1717.48
CLD3-R	26720010.74	829651.41	1752.24	22-Oct-07	35.5	1716.74
CLD3-R	26720010.74	829651.41	1752.24	21-Jan-08	35.58	1716.66
CLD3-R	26720010.74	829651.41	1752.24	28-Apr-08	35.74	1716.5
CLD3-R	26720010.74	829651.41	1752.24	21-Jul-08	35.98	1716.26
CLD3-R	26720010.74	829651.41	1752.24	12-Jan-09	35.96	1716.28
CLD3-R	26720010.74	829651.41	1752.24	06-Jul-09	35.98	1716.26
CLD3-R	26720010.74	829651.41	1752.24	03-Oct-11	35.74	1716.5
CLD4-R	26718854.29	829034.2781	1781.96	23-Mar-00	36.96	1745
CLD4-R	26718854.29	829034.2781	1781.96	22-Jun-00	37.73	1744.23
CLD4-R	26718854.29	829034.2781	1781.96	21-Sep-00	37.91	1744.05
CLD4-R	26718854.29	829034.2781	1781.96	14-Dec-00	37.6	1744.36
CLD4-R	26718854.29	829034.2781	1781.96	15-Mar-01	37.3	1744.66
CLD4-R	26718854.29	829034.2781	1781.96	14-Jun-01	37.96	1744
CLD4-R	26718854.29	829034.2781	1781.96	01-Sep-01	38.23	1743.73
CLD4-R	26718854.29	829034.2781	1781.96	13-Dec-01	37.62	1744.34
CLD4-R	26718854.29	829034.2781	1781.96	12-Mar-02	36.6	1745.36
CLD4-R	26718854.29	829034.2781	1781.96	13-Jun-02	36.6	1745.36
CLD4-R	26718854.29	829034.2781	1781.96	27-Sep-02	37.7	1744.26
CLD4-R	26718854.29	829034.2781	1781.96	19-Dec-02	38.1	1743.86
CLD4-R	26718854.29	829034.2781	1781.96	27-Mar-03	38	1743.96
CLD4-R	26718854.29	829034.2781	1781.96	26-Jun-03	38.05	1743.91
CLD4-R	26718854.29	829034.2781	1781.96	25-Sep-03	38.21	1743.75
CLD4-R	26718854.29	829034.2781	1781.96	23-Dec-03	38.35	1743.61
CLD4-R	26718854.29	829034.2781	1781.96	11-Feb-04	38.37	1743.59
CLD4-R	26718854.29	829034.2781	1781.96	29-Apr-04	37.94	1744.02
CLD4-R	26718854.29	829034.2781	1781.96	22-Jul-04	38.18	1743.78

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GROUNDWATER ELEVATION DATA
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Monitor Well	UTM Y Zone North-South Coordinates in Meters	UTM Y Zone East-West Coordinates in Meters	Casing Elevation	Date Measured	Depth to Water	Groundwater Elevation
CLD4-R	26718854.29	829034.2781	1781.96	26-Oct-04	38.03	1743.93
CLD4-R	26718854.29	829034.2781	1781.96	11-Feb-05	36.24	1745.72
CLD4-R	26718854.29	829034.2781	1781.96	26-Apr-05	36.18	1745.78
CLD4-R	26718854.29	829034.2781	1781.96	27-Jul-05	36.68	1745.28
CLD4-R	26718854.29	829034.2781	1781.96	28-Oct-05	36.61	1745.35
CLD4-R	26718854.29	829034.2781	1781.96	17-Jan-06	36.87	1745.09
CLD4-R	26718854.29	829034.2781	1781.96	25-Apr-06	37.2	1744.76
CLD4-R	26718854.29	829034.2781	1781.96	21-Jul-06	37.93	1744.03
CLD4-R	26718854.29	829034.2781	1781.96	23-Oct-06	37.94	1744.02
CLD4-R	26718854.29	829034.2781	1781.96	25-Jan-07	37.91	1744.05
CLD4-R	26718854.29	829034.2781	1781.96	09-Apr-07	38.09	1743.87
CLD4-R	26718854.29	829034.2781	1781.96	17-Jul-07	38.29	1743.67
CLD4-R	26718854.29	829034.2781	1781.96	22-Oct-07	38.38	1743.58
CLD4-R	26718854.29	829034.2781	1781.96	21-Jan-08	38.17	1743.79
CLD4-R	26718854.29	829034.2781	1781.96	28-Apr-08	38.45	1743.51
CLD4-R	26718854.29	829034.2781	1781.96	21-Jul-08	37.38	1744.58
CLD4-R	26718854.29	829034.2781	1781.96	12-Jan-09	37	1744.96
CLD4-R	26718854.29	829034.2781	1781.96	06-Jul-09	36.13	1745.83
CLD4-R	26718854.29	829034.2781	1782.07	20-Apr-10	36.58	1745.49
CLD4-R	26718854.29	829034.2781	1782.07	13-Oct-10	37.22	1744.85
CLD4-R	26718854.29	829034.2781	1782.07	12-Apr-11	38.17	1743.9
CLD4-R	26718854.29	829034.2781	1782.07	03-Oct-11	52.28	1729.79
CLD4-R	26718854.29	829034.2781	1782.07	02-Apr-12	38.4	1743.67
CMT-101	26719980.31	829635.1691	1751.42	29-Apr-10	33.43	1717.99
CMT-101	26719980.31	829635.1691	1751.42	02-Nov-10	30.1	1721.32
CMT-101	26719980.31	829635.1691	1751.42	27-Apr-11	34.43	1716.99
CMT-101	26719980.31	829635.1691	1751.42	03-Oct-11	35	1716.42
CMT-101	26719980.31	829635.1691	1751.42	02-Apr-12	35.17	1716.25
DBMW-1	26728009.64	830462.8978	1626.46	27-Apr-10	34.03	1592.43
DBMW-1	26728009.64	830462.8978	1626.46	07-Oct-10	35.17	1591.29
DBMW-1	26728009.64	830462.8978	1626.46	11-Apr-11	34.35	1592.11
DBMW-1	26728009.64	830462.8978	1626.46	03-Oct-11	35.84	1590.62
DBMW-1	26728009.64	830462.8978	1626.46	12-Apr-12	34.52	1591.94
DBMW-3	26728157	831004.7895	1625.86	26-Apr-10	32.75	1593.11
DBMW-3	26728157	831004.7895	1625.86	07-Oct-10	33.83	1592.03
DBMW-3	26728157	831004.7895	1625.86	11-Apr-11	33.76	1592.1
DBMW-3	26728157	831004.7895	1625.86	03-Oct-11	34.05	1591.81
DBMW-3	26728157	831004.7895	1625.86	12-Apr-12	34.51	1591.35
DBMW-4	26729895.86	832282.9325	1605.81	28-Apr-10	22.81	1583
DBMW-4	26729895.86	832282.9325	1605.81	14-Oct-10	26.41	1579.4
DBMW-4	26729895.86	832282.9325	1605.81	07-Apr-11	26.42	1579.39

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Monitor Well	UTM Y Zone North-South Coordinates in Meters	UTM Y Zone East-West Coordinates in Meters	Casing Elevation	Date Measured	Depth to Water	Groundwater Elevation
DBMW-4	26729895.86	832282.9325	1605.81	03-Oct-11	26.92	1578.89
DBMW-4	26729895.86	832282.9325	1605.81	17-Apr-12	26.96	1578.85
DBMW-5	26729807.16	833395.044	1609.65	14-Oct-10	28.22	1581.43
DBMW-5	26729807.16	833395.044	1609.65	14-Oct-10	28.22	1581.43
DBMW-5	26729807.16	833395.044	1609.65	04-Apr-11	28.33	1581.32
DBMW-5	26729807.16	833395.044	1609.65	03-Oct-11	28.75	1580.9
DBMW-5	26729807.16	833395.0435	1609.65	17-Apr-12	28.9	1580.75
EWQAL-12	26719370.9	830027.4	1771.81	02-Apr-12	43.12	1728.69
EWQAL-12	26719653.88	830333.552		03-Oct-11	43.75	-43.75
J2D1-R2	26719274	829885.7771	1773.38	22-Mar-00	37.04	1736.34
J2D1-R2	26719274	829885.7771	1773.38	20-Jun-00	37.63	1735.75
J2D1-R2	26719274	829885.7771	1773.38	21-Sep-00	38.3	1735.08
J2D1-R2	26719274	829885.7771	1773.38	14-Dec-00	38.59	1734.79
J2D1-R2	26719274	829885.7771	1773.38	15-Mar-01	38.78	1734.6
J2D1-R2	26719274	829885.7771	1773.38	13-Jun-01	39.14	1734.24
J2D1-R2	26719274	829885.7771	1773.38	01-Sep-01	39.81	1733.57
J2D1-R2	26719274	829885.7771	1773.38	12-Dec-01	39.97	1733.41
J2D1-R2	26719274	829885.7771	1773.38	12-Mar-02	39.96	1733.42
J2D1-R2	26719274	829885.7771	1773.38	11-Jun-02	40	1733.38
J2D1-R2	26719274	829885.7771	1773.38	01-Sep-02	40.2	1733.18
J2D1-R2	26719274	829885.7771	1773.38	18-Dec-02	40.1	1733.28
J2D1-R2	26719274	829885.7771	1773.38	26-Mar-03	40	1733.38
J2D1-R2	26719274	829885.7771	1773.38	26-Jun-03	40.41	1732.97
J2D1-R2	26719274	829885.7771	1773.38	25-Sep-03	41.7	1731.68
J2D1-R2	26719274	829885.7771	1773.38	22-Dec-03	39.91	1733.47
J2D1-R2	26719274	829885.7771	1773.38	11-Feb-04	41	1732.38
J2D1-R2	26719274	829885.7771	1773.38	29-Apr-04	41.1	1732.28
J2D1-R2	26719274	829885.7771	1773.38	22-Jul-04	41.27	1732.11
J2D1-R2	26719274	829885.7771	1773.38	26-Oct-04	41.33	1732.05
J2D1-R2	26719274	829885.7771	1773.38	14-Feb-05	39.96	1733.42
J2D1-R2	26719274	829885.7771	1773.38	26-Apr-05	39.46	1733.92
J2D1-R2	26719274	829885.7771	1773.38	26-Jul-05	39.71	1733.67
J2D1-R2	26719274	829885.7771	1773.38	26-Oct-05	39.32	1734.06
J2D1-R2	26719274	829885.7771	1773.38	17-Jan-06	39.19	1734.19
J2D1-R2	26719274	829885.7771	1773.38	20-Apr-06	39.49	1733.89
J2D1-R2	26719274	829885.7771	1773.38	19-Jul-06	40.41	1732.97
J2D1-R2	26719274	829885.7771	1773.38	19-Oct-06	40.71	1732.67
J2D1-R2	26719274	829885.7771	1773.38	24-Jan-07	40.44	1732.94
J2D1-R2	26719274	829885.7771	1773.38	09-Apr-07	40.58	1732.8
J2D1-R2	26719274	829885.7771	1773.38	17-Jul-07	41.19	1732.19
J2D1-R2	26719274	829885.7771	1773.38	21-Jan-08	41.39	1731.99

Table 3-1
GROUNDWATER ELEVATION DATA
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Monitor Well	UTM Y Zone North-South Coordinates in Meters	UTM Y Zone East-West Coordinates in Meters	Casing Elevation	Date Measured	Depth to Water	Groundwater Elevation
J2D1-R2	26719274	829885.7771	1773.38	28-Apr-08	41.56	1731.82
J2D1-R2	26719274	829885.7771	1773.38	21-Jul-08	41.58	1731.8
J2D1-R2	26719274	829885.7771	1773.38	12-Jan-09	41.26	1732.12
J2D1-R2	26719274	829885.7771	1773.38	06-Jul-09	41.22	1732.16
J2D1-R2	26719274	829885.7771	1770.68	28-Apr-10	40.76	1729.92
J2D1-R2	26719274	829885.7771	1770.68	21-Oct-10	41.99	1728.69
J2D1-R2	26719274	829885.7771	1770.68	20-Apr-11	41.78	1728.9
J2D1-R2	26719274	829885.7771	1770.68	03-Oct-11	41.54	1729.14
J2D1-R2	26719274	829885.7771	1770.68	02-Apr-12	41.6	1729.08
J2D2-R2	26719406.73	830098.4822	1772.46	22-Mar-00	38.26	1734.2
J2D2-R2	26719406.73	830098.4822	1772.46	21-Jun-00	38.83	1733.63
J2D2-R2	26719406.73	830098.4822	1772.46	20-Sep-00	39.53	1732.93
J2D2-R2	26719406.73	830098.4822	1772.46	14-Dec-00	39.82	1732.64
J2D2-R2	26719406.73	830098.4822	1772.46	15-Mar-01	40.5	1731.96
J2D2-R2	26719406.73	830098.4822	1772.46	13-Jun-01	40.5	1731.96
J2D2-R2	26719406.73	830098.4822	1772.46	26-Sep-01	41.27	1731.19
J2D2-R2	26719406.73	830098.4822	1772.46	12-Dec-01	41.4	1731.06
J2D2-R2	26719406.73	830098.4822	1772.46	13-Mar-02	41.4	1731.06
J2D2-R2	26719406.73	830098.4822	1772.46	12-Jun-02	41.68	1730.78
J2D2-R2	26719406.73	830098.4822	1772.46	27-Sep-02	42.05	1730.41
J2D2-R2	26719406.73	830098.4822	1772.46	18-Dec-02	41.8	1730.66
J2D2-R2	26719406.73	830098.4822	1772.46	26-Mar-03	41.65	1730.81
J2D2-R2	26719406.73	830098.4822	1772.46	26-Jun-03	42.26	1730.2
J2D2-R2	26719406.73	830098.4822	1772.46	25-Sep-03	42.72	1729.74
J2D2-R2	26719406.73	830098.4822	1772.46	22-Dec-03	42.86	1729.6
J2D2-R2	26719406.73	830098.4822	1772.46	11-Feb-04	39.91	1732.55
J2D2-R2	26719406.73	830098.4822	1772.46	29-Apr-04	43.05	1729.41
J2D2-R2	26719406.73	830098.4822	1772.46	22-Jul-04	43.4	1729.06
J2D2-R2	26719406.73	830098.4822	1772.46	26-Oct-04	43.6	1728.86
J2D2-R2	26719406.73	830098.4822	1772.46	09-Feb-05	42.07	1730.39
J2D2-R2	26719406.73	830098.4822	1772.46	28-Apr-05	41.4	1731.06
J2D2-R2	26719406.73	830098.4822	1772.46	26-Jul-05	41.77	1730.69
J2D2-R2	26719406.73	830098.4822	1772.46	26-Oct-05	41.39	1731.07
J2D2-R2	26719406.73	830098.4822	1772.46	17-Jan-06	41.01	1731.45
J2D2-R2	26719406.73	830098.4822	1772.46	20-Apr-06	41.21	1731.25
J2D2-R2	26719406.73	830098.4822	1772.46	19-Jul-06	42.18	1730.28
J2D2-R2	26719406.73	830098.4822	1772.46	20-Oct-06	42.65	1729.81
J2D2-R2	26719406.73	830098.4822	1772.46	25-Jan-07	42.14	1730.32
J2D2-R2	26719406.73	830098.4822	1772.46	09-Apr-07	42.34	1730.12
J2D2-R2	26719406.73	830098.4822	1772.46	17-Jul-07	43.15	1729.31
J2D2-R2	26719406.73	830098.4822	1772.46	21-Jan-08	43.35	1729.11

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Monitor Well	UTM Y Zone North-South Coordinates in Meters	UTM Y Zone East-West Coordinates in Meters	Casing Elevation	Date Measured	Depth to Water	Groundwater Elevation
J2D2-R2	26719406.73	830098.4822	1772.46	28-Apr-08	43.55	1728.91
J2D2-R2	26719406.73	830098.4822	1772.46	21-Jul-08	43.05	1729.41
J2D2-R2	26719406.73	830098.4822	1772.46	12-Jan-09	43.48	1728.98
J2D2-R2	26719406.73	830098.4822	1772.46	06-Jul-09	43.56	1728.9
J2D2-R2	26719406.73	830098.4822	1769.55	21-Apr-10	42.84	1726.71
J2D2-R2	26719406.73	830098.4822	1769.55	14-Oct-10	43.89	1725.66
J2D2-R2	26719406.73	830098.4822	1769.55	19-Apr-11	43.78	1725.77
J2D2-R2	26719406.73	830098.4822	1769.55	03-Oct-11	44.31	1725.24
J2D2-R2	26719406.73	830098.4822	1769.55	02-Apr-12	43.73	1725.82
J2D3	26719443.26	830356.3083	1769.9	22-Mar-00	36.06	1733.84
J2D3	26719443.26	830356.3083	1769.9	20-Jun-00	36.39	1733.51
J2D3	26719443.26	830356.3083	1769.9	20-Sep-00	37.34	1732.56
J2D3	26719443.26	830356.3083	1769.9	13-Dec-00	37.42	1732.48
J2D3	26719443.26	830356.3083	1769.9	14-Mar-01	37.72	1732.18
J2D3	26719443.26	830356.3083	1769.9	12-Jun-01	38.17	1731.73
J2D3	26719443.26	830356.3083	1769.9	01-Sep-01	39.1	1730.8
J2D3	26719443.26	830356.3083	1769.9	12-Dec-01	39.12	1730.78
J2D3	26719443.26	830356.3083	1769.9	12-Mar-02	39.93	1729.97
J2D3	26719443.26	830356.3083	1769.9	11-Jun-02	39.37	1730.53
J2D3	26719443.26	830356.3083	1769.9	26-Mar-03	40.19	1729.71
J2D3	26719443.26	830356.3083	1769.9	25-Jun-03	40.05	1729.85
J2D3	26719443.26	830356.3083	1769.9	25-Sep-03	40.56	1729.34
J2D3	26719443.26	830356.3083	1769.9	22-Dec-03	40.37	1729.53
J2D3	26719443.26	830356.3083	1769.9	11-Feb-04	40.4	1729.5
J2D3	26719443.26	830356.3083	1769.9	29-Apr-04	40.62	1729.28
J2D3	26719443.26	830356.3083	1769.9	22-Jul-04	41.1	1728.8
J2D3	26719443.26	830356.3083	1769.9	26-Oct-04	41.2	1728.7
J2D3	26719443.26	830356.3083	1769.9	10-Feb-05	39.21	1730.69
J2D3	26719443.26	830356.3083	1769.9	25-Apr-05	38.76	1731.14
J2D3	26719443.26	830356.3083	1769.9	01-Aug-05	39.54	1730.36
J2D3	26719443.26	830356.3083	1769.9	19-Jan-06	38.34	1731.56
J2D3	26719443.26	830356.3083	1769.9	20-Apr-06	38.72	1731.18
J2D3	26719443.26	830356.3083	1769.9	19-Jul-06	39.96	1729.94
J2D3	26719443.26	830356.3083	1769.9	19-Oct-06	40.25	1729.65
J2D3	26719443.26	830356.3083	1769.9	23-Jan-07	39.47	1730.43
J2D3	26719443.26	830356.3083	1769.9	09-Apr-07	39.78	1730.12
J2D3	26719443.26	830356.3083	1769.9	17-Jul-07	40.86	1729.04
J2D3	26719443.26	830356.3083	1769.9	21-Jan-08	40.7	1729.2
J2D3	26719443.26	830356.3083	1769.9	28-Apr-08	40.99	1728.91
J2D3	26719443.26	830356.3083	1769.9	21-Jul-08	41.25	1728.65
J2D3-R	26719408.27	830353.0351	1769.9	12-Jan-09	40.86	1729.04

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GROUNDWATER ELEVATION DATA
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Monitor Well	UTM Y Zone North-South Coordinates in Meters	UTM Y Zone East-West Coordinates in Meters	Casing Elevation	Date Measured	Depth to Water	Groundwater Elevation
J2D3-R	26719408.27	830353.0351	1769.9	06-Jul-09	41.24	1728.66
J2D3-R	26719408.27	830353.0351	1769.9	21-Apr-10	40.3	1729.6
J2D3-R	26719408.27	830353.0351	1769.9	28-Oct-10	41.23	1728.67
J2D3-R	26719408.27	830353.0351	1769.9	28-Apr-11	41.09	1728.81
J2D3-R	26719408.27	830353.0351	1769.9	03-Oct-11	42.28	1727.62
J2D4	26719171.05	829582.5658	1774.29	23-Mar-00	36.38	1737.91
J2D4	26719171.05	829582.5658	1774.29	20-Jun-00	36.83	1737.46
J2D4	26719171.05	829582.5658	1774.29	21-Sep-00	37.16	1737.13
J2D4	26719171.05	829582.5658	1774.29	14-Dec-00	37.27	1737.02
J2D4	26719171.05	829582.5658	1774.29	15-Mar-01	37.31	1736.98
J2D4	26719171.05	829582.5658	1774.29	13-Jun-01	37.47	1736.82
J2D4	26719171.05	829582.5658	1774.29	01-Sep-01	37.88	1736.41
J2D4	26719171.05	829582.5658	1774.29	13-Dec-01	37.91	1736.38
J2D4	26719171.05	829582.5658	1774.29	12-Mar-02	37.5	1736.79
J2D4	26719171.05	829582.5658	1774.29	11-Jun-02	37.6	1736.69
J2D4	26719171.05	829582.5658	1774.29	01-Sep-02	37.9	1736.39
J2D4	26719171.05	829582.5658	1774.29	18-Dec-02	38	1736.29
J2D4	26719171.05	829582.5658	1774.29	27-Mar-03	38.11	1736.18
J2D4	26719171.05	829582.5658	1774.29	26-Jun-03	38.17	1736.12
J2D4	26719171.05	829582.5658	1774.29	25-Sep-03	38.29	1736
J2D4	26719171.05	829582.5658	1774.29	22-Dec-03	33.38	1740.91
J2D4	26719171.05	829582.5658	1774.29	11-Feb-04	38.47	1735.82
J2D4	26719171.05	829582.5658	1774.29	29-Apr-04	38.42	1735.87
J2D4	26719171.05	829582.5658	1774.29	22-Jul-04	38.51	1735.78
J2D4	26719171.05	829582.5658	1774.29	26-Oct-04	38.47	1735.82
J2D4	26719171.05	829582.5658	1774.29	11-Feb-05	37.3	1736.99
J2D4	26719171.05	829582.5658	1774.29	26-Apr-05	37.09	1737.2
J2D4	26719171.05	829582.5658	1774.29	26-Jul-05	37.35	1736.94
J2D4	26719171.05	829582.5658	1774.29	27-Oct-05	37.15	1737.14
J2D4	26719171.05	829582.5658	1774.29	18-Jan-06	37.15	1737.14
J2D4	26719171.05	829582.5658	1774.29	20-Jul-06	38.11	1736.18
J2D4	26719171.05	829582.5658	1774.29	19-Oct-06	38.29	1736
J2D4	26719171.05	829582.5658	1774.29	22-Jan-07	38.25	1736.04
J2D4	26719171.05	829582.5658	1774.29	09-Apr-07	38.33	1735.96
J2D4	26719171.05	829582.5658	1774.29	17-Jul-07	38.57	1735.72
J2D4	26719171.05	829582.5658	1774.29	22-Oct-07	38.6	1735.69
J2D4	26719171.05	829582.5658	1774.29	21-Jan-08	38.53	1735.76
J2D4	26719171.05	829582.5658	1774.29	28-Apr-08	38.71	1735.58
J2D4	26719171.05	829582.5658	1774.29	21-Jul-08	38.33	1735.96
J2D4	26719171.05	829582.5658	1774.29	12-Jan-09	38.01	1736.28
J2D4	26719171.05	829582.5658	1774.29	06-Jul-09	37.93	1736.36

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J2D4	26719171.05	829582.5658	1774.66	04-May-10	37.71	1736.95
J2D4	26719171.05	829582.5658	1774.66	27-Oct-10	38.51	1736.15
J2D4	26719171.05	829582.5658	1774.66	21-Apr-11	38.77	1735.89
J2D4	26719171.05	829582.5658	1774.66	03-Oct-11	38.69	1735.97
J2D4	26719171.05	829582.5658	1774.66	02-Apr-12	38.63	1736.03
J2U1	26718499.09	830498.1399	1800.98	22-Mar-00	47.53	1753.45
J2U1	26718499.09	830498.1399	1800.98	20-Jun-00	48.2	1752.78
J2U1	26718499.09	830498.1399	1800.98	20-Sep-00	48.8	1752.18
J2U1	26718499.09	830498.1399	1800.98	13-Dec-00	48.9	1752.08
J2U1	26718499.09	830498.1399	1800.98	14-Mar-01	51.9	1749.08
J2U1	26718499.09	830498.1399	1800.98	12-Jun-01	51.85	1749.13
J2U1	26718499.09	830498.1399	1800.98	01-Sep-01	51.87	1749.11
J2U1	26718499.09	830498.1399	1800.98	12-Dec-01	51.88	1749.1
J2U1	26718499.09	830498.1399	1800.98	12-Mar-02	51.88	1749.1
J2U1	26718499.09	830498.1399	1800.98	11-Jun-02	50.86	1750.12
J2U1	26718499.09	830498.1399	1800.98	01-Sep-02	52.3	1748.68
J2U1	26718499.09	830498.1399	1800.98	18-Dec-02	52.3	1748.68
J2U1	26718499.09	830498.1399	1800.98	26-Mar-03	52.3	1748.68
J2U1	26718499.09	830498.1399	1800.98	25-Jun-03	52.3	1748.68
J2U1	26718499.09	830498.1399	1800.98	25-Sep-03	52.3	1748.68
J2U1	26718499.09	830498.1399	1800.98	27-Jul-05	48.72	1752.26
J2U1	26718499.09	830498.1399	1800.98	28-Oct-05	48.04	1752.94
J2U1	26718499.09	830498.1399	1800.98	19-Jan-06	48.42	1752.56
J2U1	26718499.09	830498.1399	1800.98	21-Apr-06	48.93	1752.05
J2U1	26718499.09	830498.1399	1800.98	19-Jul-06	51.49	1749.49
J2U1	26718499.09	830498.1399	1800.98	09-Apr-07	49.04	1751.94
J2U1	26718499.09	830498.1399	1800.98	17-Jul-07	50.58	1750.4
J2U1	26718499.09	830498.1399	1800.98	21-Jan-08	51.67	1749.31
J2U1	26718499.09	830498.1399	1800.98	28-Apr-08	51.7	1749.28
J2U1	26718499.09	830498.1399	1800.98	21-Jul-08	51.68	1749.3
J2U1	26718499.09	830498.1399	1800.98	12-Jan-09	51.67	1749.31
J2U1	26718499.09	830498.1399	1800.98	06-Jul-09	51.68	1749.3
J2U1	26718499.09	830498.1399	1800.98	29-Oct-10	51.72	1749.26
J2U1	26718499.09	830498.1399	1800.98	04-Apr-11	51.75	1749.23
J2U1	26718499.09	830498.1399	1800.98	03-Oct-11	51.71	1749.27
J2U1	26718499.09	830498.1399	1800.98	02-Apr-12	51.82	1749.16
J2U2	26718456.02	830063.1673	1798.35	22-Mar-00	44.04	1754.31
J2U2	26718456.02	830063.1673	1798.35	20-Jun-00	44.46	1753.89
J2U2	26718456.02	830063.1673	1798.35	20-Sep-00	44.58	1753.77
J2U2	26718456.02	830063.1673	1798.35	13-Dec-00	44.82	1753.53
J2U2	26718456.02	830063.1673	1798.35	14-Mar-01	45.21	1753.14

Table 3-1
GROUNDWATER ELEVATION DATA
2012 ANNUAL GROUNDWATER MONITORING REPORT

Monitor Well	UTM Y Zone North-South Coordinates in Meters	UTM Y Zone East-West Coordinates in Meters	Casing Elevation	Date Measured	Depth to Water	Groundwater Elevation
J2U2	26718456.02	830063.1673	1798.35	12-Jun-01	45.38	1752.97
J2U2	26718456.02	830063.1673	1798.35	01-Sep-01	45.46	1752.89
J2U2	26718456.02	830063.1673	1798.35	12-Dec-01	45.68	1752.67
J2U2	26718456.02	830063.1673	1798.35	12-Mar-02	45.7	1752.65
J2U2	26718456.02	830063.1673	1798.35	11-Jun-02	43.86	1754.49
J2U2	26718456.02	830063.1673	1798.35	01-Sep-02	43.58	1754.77
J2U2	26718456.02	830063.1673	1798.35	18-Dec-02	43.6	1754.75
J2U2	26718456.02	830063.1673	1798.35	26-Mar-03	43.87	1754.48
J2U2	26718456.02	830063.1673	1798.35	25-Jun-03	44.2	1754.15
J2U2	26718456.02	830063.1673	1798.35	25-Sep-03	44.55	1753.8
J2U2	26718456.02	830063.1673	1798.35	22-Dec-03	45.64	1752.71
J2U2	26718456.02	830063.1673	1798.35	11-Feb-04	45.76	1752.59
J2U2	26718456.02	830063.1673	1798.35	29-Apr-04	45.55	1752.8
J2U2	26718456.02	830063.1673	1798.35	22-Jul-04	45.3	1753.05
J2U2	26718456.02	830063.1673	1798.35	26-Oct-04	44.52	1753.83
J2U2	26718456.02	830063.1673	1798.35	10-Feb-05	44.72	1753.63
J2U2	26718456.02	830063.1673	1798.35	27-Apr-05	44.28	1754.07
J2U2	26718456.02	830063.1673	1798.35	25-Jul-05	43.63	1754.72
J2U2	26718456.02	830063.1673	1798.35	26-Oct-05	42.43	1755.92
J2U2	26718456.02	830063.1673	1798.35	17-Jan-06	43.92	1754.43
J2U2	26718456.02	830063.1673	1798.35	26-Apr-06	44.75	1753.6
J2U2	26718456.02	830063.1673	1798.35	20-Jul-06	44.66	1753.69
J2U2	26718456.02	830063.1673	1798.35	20-Oct-06	44.29	1754.06
J2U2	26718456.02	830063.1673	1798.35	22-Jan-07	42.97	1755.38
J2U2	26718456.02	830063.1673	1798.35	09-Apr-07	45.55	1752.8
J2U2	26718456.02	830063.1673	1798.35	17-Jul-07	44.98	1753.37
J2U2	26718456.02	830063.1673	1798.35	23-Oct-07	45.61	1752.74
J2U2	26718456.02	830063.1673	1798.35	21-Jan-08	46.11	1752.24
J2U2	26718456.02	830063.1673	1798.35	21-Jul-08	45.13	1753.22
J2U2	26718456.02	830063.1673	1798.35	12-Jan-09	45.38	1752.97
J2U2	26718456.02	830063.1673	1798.35	06-Jul-09	45.1	1753.25
J2U2	26718456.02	830063.1673	1798.54	22-Apr-10	45.61	1752.93
J2U2	26718456.02	830063.1673	1798.54	28-Oct-10	46.29	1752.25
J2U2	26718456.02	830063.1673	1798.54	25-Apr-11	46.54	1752
J2U2	26718456.02	830063.1673	1798.54	03-Oct-11	45.87	1752.67
J2U2	26718456.02	830063.1673	1798.54	02-Apr-12	45.1	1753.44
M-129	26720079.64	828806.43	1747.26	13-May-10	30.1	1717.16
M-129	26720079.64	828806.43	1747.26	21-Oct-10	30.29	1716.97
M-129	26720079.64	828806.43	1747.26	19-Apr-11	30.36	1716.9
M-129	26720079.64	828806.43	1747.26	03-Oct-11	32.56	1714.7
M-129	26720079.64	828806.43	1747.26	02-Apr-12	32.17	1715.09

Table 3-1
GROUNDWATER ELEVATION DATA
2012 ANNUAL GROUNDWATER MONITORING REPORT

Monitor Well	UTM Y Zone North-South Coordinates in Meters	UTM Y Zone East-West Coordinates in Meters	Casing Elevation	Date Measured	Depth to Water	Groundwater Elevation
M-130	26719919.7	828832.01	1749.23	12-May-10	26.76	1722.47
M-130	26719919.7	828832.01	1749.23	01-Nov-10	26.01	1723.22
M-130	26719919.7	828832.01	1749.23	19-Apr-11	29.49	1719.74
M-130	26719919.7	828832.01	1749.23	03-Oct-11	28.23	1721
M-130	26719919.7	828832.01	1749.23	02-Apr-12	28.41	1720.82
PC-024	26726729.82	829524.184	1633.48	03-May-10	20.77	1612.71
PC-024	26726729.82	829524.184	1633.48	11-Oct-10	20.56	1612.92
PC-024	26726729.82	829524.184	1633.48	06-Apr-11	20.6	1612.88
PC-024	26726729.82	829524.184	1633.48	03-Oct-11	20.44	1613.04
PC-028	26725375.67	828530.649	1650.85	04-May-10	11.53	1639.32
PC-028	26725375.67	828530.649	1650.85	18-Oct-10	11.77	1639.08
PC-028	26725375.67	828530.649	1650.85	13-Apr-11	11.72	1639.13
PC-028	26725375.67	828530.649	1650.85	03-Oct-11	11.35	1639.5
PC-054	26722067.79	828296.339	1704.43	29-Apr-10	18.55	1685.88
PC-054	26722067.79	828296.339	1704.43	06-Oct-10	18.14	1686.29
PC-054	26722067.79	828296.339	1704.43	18-Apr-11	19.21	1685.22
PC-054	26722067.79	828296.339	1704.43	03-Oct-11	20.5	1683.93
PC-067	26723846.88	829207.58	1673.82	04-May-10	11.58	1662.24
PC-067	26723846.88	829207.58	1673.82	18-Oct-10	11.9	1661.92
PC-067	26723846.88	829207.58	1673.82	13-Apr-11	12.4	1661.42
PC-067	26723846.88	829207.58	1673.82	03-Oct-11	12.82	1661
PC-124	26726741.58	830132.953	1635.73	03-May-10	24.83	1610.9
PC-124	26726741.58	830132.953	1635.73	11-Oct-10	24.91	1610.82
PC-124	26726741.58	830132.953	1635.73	06-Apr-11	24.91	1610.82
PC-124	26726741.58	830132.953	1635.73	03-Oct-11	24.97	1610.76
PC-124	26726741.58	830132.953	1635.73	09-Apr-12	25.33	1610.4
PC-24	26726729.82	829524.184	1633.48	09-Apr-12	21.08	1612.4
PC-28	26725375.67	828530.649	1650.85	04-Apr-12	12.03	1638.82
PC-54	26722067.79	828296.339	1704.43	11-Apr-12	21.93	1682.5
PC-67	26723846.88	829207.58	1673.82	04-Apr-12	12.9	1660.92
POD2-R	26724825.4	831955.5	1675.99	14-Oct-10	63.73	1612.26
POD2-R	26724825.4	831955.5	1675.99	14-Oct-10	63.73	1612.26
POD2-R	26724825.4	831955.5	1673.4	04-Apr-11	63.9	1609.5
POD2-R	26724825.4	831955.5	1673.4	18-Apr-12	64.09	1609.31
POU-3	26721664.71	831329.9801	1730	05-May-10	38.67	1691.33
POU-3	26721664.71	831329.9801	1728.51	13-Oct-10	39.09	1689.42
POU-3	26721664.71	831329.9801	1730	18-Apr-11	39.53	1690.47
POU-3	26721664.71	831329.9801	1730	03-Oct-11	39.45	1690.55
POU-3	26721664.71	831329.9801	1730	18-Apr-12	39.68	1690.32
TIMETMW-1	26718339.19	830090.2314	1801.69	04-May-10	45.78	1755.91
TIMETMW-1	26718339.19	830090.2314	1801.69	29-Oct-10	46.52	1755.2

Table 3-1
GROUNDWATER ELEVATION DATA
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Monitor Well	UTM Y Zone North-South Coordinates in Meters	UTM Y Zone East-West Coordinates in Meters	Casing Elevation	Date Measured	Depth to Water	Groundwater Elevation
TIMETMW-1	26718339.19	830090.2314	1801.69	25-Apr-11	46.77	1754.92
TIMETMW-1	26718339.19	830090.2314	1801.69	03-Oct-11	45.96	1755.73
TIMETMW-1	26718339.19	830090.2314	1801.69	02-Apr-12	44.8	1756.89
TIMETMW-2	26718418.59	830045.4513	1800	04-Oct-10	45.65	1754.35
TIMETMW-2	26718418.59	830045.4513	1800	04-Oct-10	45.65	1754.35
TIMETMW-2	26718418.59	830045.4513	1800	04-Apr-11	47.91	1752.09
TIMETMW-2	26718418.59	830045.4513	1800	02-Apr-12	44.25	1755.75
TIMETMW-3	26716618.99	830128.1386	1843.63	22-Mar-00	55.95	1787.68
TIMETMW-3	26716618.99	830128.1386	1843.63	20-Jun-00	56.27	1787.36
TIMETMW-3	26716618.99	830128.1386	1843.63	20-Sep-00	56.44	1787.19
TIMETMW-3	26716618.99	830128.1386	1843.63	12-Dec-00	56.31	1787.32
TIMETMW-3	26716618.99	830128.1386	1843.63	14-Mar-01	56.19	1787.44
TIMETMW-3	26716618.99	830128.1386	1843.63	13-Jun-01	56.25	1787.38
TIMETMW-3	26716618.99	830128.1386	1843.63	26-Sep-01	57.48	1786.15
TIMETMW-3	26716618.99	830128.1386	1843.63	12-Dec-01	56.28	1787.35
TIMETMW-3	26716618.99	830128.1386	1843.63	12-Mar-02	56.15	1787.48
TIMETMW-3	26716618.99	830128.1386	1843.63	12-Jun-02	56.5	1787.13
TIMETMW-3	26716618.99	830128.1386	1843.63	26-Sep-02	56.7	1786.93
TIMETMW-3	26716618.99	830128.1386	1843.63	17-Dec-02	56.6	1787.03
TIMETMW-3	26716618.99	830128.1386	1843.63	26-Mar-03	56.72	1786.91
TIMETMW-3	26716618.99	830128.1386	1843.63	25-Jun-03	56.88	1786.75
TIMETMW-3	26716618.99	830128.1386	1843.63	24-Sep-03	56.73	1786.9
TIMETMW-3	26716618.99	830128.1386	1843.63	18-Dec-03	56.54	1787.09
TIMETMW-3	26716618.99	830128.1386	1843.63	10-Feb-04	56.25	1787.38
TIMETMW-3	26716618.99	830128.1386	1843.63	28-Apr-04	56.25	1787.38
TIMETMW-3	26716618.99	830128.1386	1843.63	21-Jul-04	56.72	1786.91
TIMETMW-3	26716618.99	830128.1386	1843.63	25-Oct-04	56.82	1786.81
TIMETMW-3	26716618.99	830128.1386	1843.63	10-Feb-05	56.23	1787.4
TIMETMW-3	26716618.99	830128.1386	1843.63	29-Apr-05	55.94	1787.69
TIMETMW-3	26716618.99	830128.1386	1843.63	27-Jul-05	56	1787.63
TIMETMW-3	26716618.99	830128.1386	1843.63	28-Oct-05	55.63	1788
TIMETMW-3	26716618.99	830128.1386	1843.63	23-Jan-06	55.6	1788.03
TIMETMW-3	26716618.99	830128.1386	1843.63	25-Apr-06	55.88	1787.75
TIMETMW-3	26716618.99	830128.1386	1843.63	18-Jul-06	56.37	1787.26
TIMETMW-3	26716618.99	830128.1386	1843.63	18-Oct-06	56.66	1786.97
TIMETMW-3	26716618.99	830128.1386	1843.63	23-Jan-07	56.44	1787.19
TIMETMW-3	26716618.99	830128.1386	1843.63	09-Apr-07	56.54	1787.09
TIMETMW-3	26716618.99	830128.1386	1843.63	17-Jul-07	56.57	1787.06
TIMETMW-3R	26716571.73	829483.2505	1840.39	12-Jan-09	52.84	1787.55
TIMETMW-3R	26716571.73	829483.2505	1840.39	06-Jul-09	52.53	1787.86
TIMETMW-3R	26716571.73	829483.2505	1840.39	13-May-10	53.04	1787.35

Table 3-1
GROUNDWATER ELEVATION DATA
2012 ANNUAL GROUNDWATER MONITORING REPORT

Monitor Well	UTM Y Zone North-South Coordinates in Meters	UTM Y Zone East-West Coordinates in Meters	Casing Elevation	Date Measured	Depth to Water	Groundwater Elevation
TIMETMW-3R	26716571.73	829483.2505	1840.39	06-Oct-10	53.93	1786.46
TIMETMW-3R	26716571.73	829483.2505	1840.39	07-Apr-11	52.94	1787.45
TIMETMW-3R	26716571.73	829483.2505	1840.39	02-Apr-12	52.16	1788.23
TIMETMW-4	26718582.87	830973.9242	1800.6	22-Mar-00	49.61	1750.99
TIMETMW-4	26718582.87	830973.9242	1800.6	20-Jun-00	50.35	1750.25
TIMETMW-4	26718582.87	830973.9242	1800.6	20-Sep-00	50.9	1749.7
TIMETMW-4	26718582.87	830973.9242	1800.6	12-Dec-00	51.18	1749.42
TIMETMW-4	26718582.87	830973.9242	1800.6	14-Mar-01	51.18	1749.42
TIMETMW-4	26718582.87	830973.9242	1800.6	13-Jun-01	51.55	1749.05
TIMETMW-4	26718582.87	830973.9242	1800.6	26-Sep-01	51.95	1748.65
TIMETMW-4	26718582.87	830973.9242	1800.6	12-Dec-01	51.77	1748.83
TIMETMW-4	26718582.87	830973.9242	1800.6	12-Mar-02	51.48	1749.12
TIMETMW-4	26718582.87	830973.9242	1800.6	12-Jun-02	52	1748.6
TIMETMW-4	26718582.87	830973.9242	1800.6	26-Sep-02	52	1748.6
TIMETMW-4	26718582.87	830973.9242	1800.6	17-Dec-02	51	1749.6
TIMETMW-4	26718582.87	830973.9242	1800.6	26-Mar-03	51.36	1749.24
TIMETMW-4	26718582.87	830973.9242	1800.6	25-Jun-03	52.05	1748.55
TIMETMW-4	26718582.87	830973.9242	1800.6	24-Sep-03	52.11	1748.49
TIMETMW-4	26718582.87	830973.9242	1800.6	18-Dec-03	51.42	1749.18
TIMETMW-4	26718582.87	830973.9242	1800.6	10-Feb-04	52	1748.6
TIMETMW-4	26718582.87	830973.9242	1800.6	28-Apr-04	52.03	1748.57
TIMETMW-4	26718582.87	830973.9242	1800.6	21-Jul-04	52.38	1748.22
TIMETMW-4	26718582.87	830973.9242	1800.6	25-Oct-04	52.35	1748.25
TIMETMW-4	26718582.87	830973.9242	1800.6	10-Feb-05	50.31	1750.29
TIMETMW-4	26718582.87	830973.9242	1800.6	26-Apr-05	49.72	1750.88
TIMETMW-4	26718582.87	830973.9242	1800.6	25-Jul-05	50.58	1750.02
TIMETMW-4	26718582.87	830973.9242	1800.6	25-Oct-05	50.69	1749.91
TIMETMW-4	26718582.87	830973.9242	1800.6	16-Jan-06	50.56	1750.04
TIMETMW-4	26718582.87	830973.9242	1800.6	21-Apr-06	50.63	1749.97
TIMETMW-4	26718582.87	830973.9242	1800.6	19-Jul-06	51.36	1749.24
TIMETMW-4	26718582.87	830973.9242	1800.6	20-Oct-06	47.98	1752.62
TIMETMW-4	26718582.87	830973.9242	1800.6	25-Jan-07	50.09	1750.51
TIMETMW-4	26718582.87	830973.9242	1800.6	09-Apr-07	51.07	1749.53
TIMETMW-4	26718582.87	830973.9242	1800.6	17-Jul-07	51.85	1748.75
TIMETMW-4	26718582.87	830973.9242	1800.6	21-Jan-08	51.35	1749.25
TIMETMW-4	26718582.87	830973.9242	1800.6	28-Apr-08	52.36	1748.24
TIMETMW-4	26718582.87	830973.9242	1800.6	21-Jul-08	52.18	1748.42
TIMETMW-4	26718582.87	830973.9242	1800.6	12-Jan-09	51.61	1748.99
TIMETMW-4	26718582.87	830973.9242	1800.6	06-Jul-09	51.83	1748.77
TIMETMW-4	26718582.87	830973.9242	1800.61	14-Apr-10	51.28	1749.33
TIMETMW-4	26718582.87	830973.9242	1800.61	11-Oct-10	52.12	1748.49

Table 3-1
GROUNDWATER ELEVATION DATA
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Monitor Well	UTM Y Zone North-South Coordinates in Meters	UTM Y Zone East-West Coordinates in Meters	Casing Elevation	Date Measured	Depth to Water	Groundwater Elevation
TIMETMW-4	26718582.87	830973.9242	1800.61	11-Apr-11	52.07	1748.54
TIMETMW-4	26718582.87	830973.9242	1800.61	03-Oct-11	52.5	1748.11
TIMETMW-4	26718582.87	830973.9242	1800.61	02-Apr-12	51.95	1748.66
TIMETMW-5	26718063.61	830385.808	1812.47	22-Mar-00	49.1	1763.37
TIMETMW-5	26718063.61	830385.808	1812.47	20-Jun-00	49.83	1762.64
TIMETMW-5	26718063.61	830385.808	1812.47	20-Sep-00	50.02	1762.45
TIMETMW-5	26718063.61	830385.808	1812.47	12-Dec-00	50.43	1762.04
TIMETMW-5	26718063.61	830385.808	1812.47	14-Mar-01	50.75	1761.72
TIMETMW-5	26718063.61	830385.808	1812.47	13-Jun-01	50.66	1761.81
TIMETMW-5	26718063.61	830385.808	1812.47	26-Sep-01	50.68	1761.79
TIMETMW-5	26718063.61	830385.808	1812.47	12-Dec-01	50.8	1761.67
TIMETMW-5	26718063.61	830385.808	1812.47	12-Mar-02	50.81	1761.66
TIMETMW-5	26718063.61	830385.808	1812.47	12-Jun-02	50.45	1762.02
TIMETMW-5	26718063.61	830385.808	1812.47	26-Sep-02	50.1	1762.37
TIMETMW-5	26718063.61	830385.808	1812.47	17-Dec-02	50.3	1762.17
TIMETMW-5	26718063.61	830385.808	1812.47	26-Mar-03	50.63	1761.84
TIMETMW-5	26718063.61	830385.808	1812.47	25-Jun-03	50.22	1762.25
TIMETMW-5	26718063.61	830385.808	1812.47	24-Sep-03	50.32	1762.15
TIMETMW-5	26718063.61	830385.808	1812.47	18-Dec-03	50.8	1761.67
TIMETMW-5	26718063.61	830385.808	1812.47	10-Feb-04	50.82	1761.65
TIMETMW-5	26718063.61	830385.808	1812.47	28-Apr-04	50.62	1761.85
TIMETMW-5	26718063.61	830385.808	1812.47	21-Jul-04	50.28	1762.19
TIMETMW-5	26718063.61	830385.808	1812.47	25-Oct-04	49.38	1763.09
TIMETMW-5	26718063.61	830385.808	1812.47	14-Feb-05	49.88	1762.59
TIMETMW-5	26718063.61	830385.808	1812.47	27-Apr-05	48.95	1763.52
TIMETMW-5	26718063.61	830385.808	1812.47	25-Jul-05	49.09	1763.38
TIMETMW-5	26718063.61	830385.808	1812.47	26-Oct-05	48.71	1763.76
TIMETMW-5	26718063.61	830385.808	1812.47	16-Jan-06	49.32	1763.15
TIMETMW-5	26718063.61	830385.808	1812.47	21-Apr-06	49.82	1762.65
TIMETMW-5	26718063.61	830385.808	1812.47	21-Jul-06	50.04	1762.43
TIMETMW-5	26718063.61	830385.808	1812.47	20-Oct-06	50	1762.47
TIMETMW-5	26718063.61	830385.808	1812.47	25-Jan-07	50.39	1762.08
TIMETMW-5	26718063.61	830385.808	1812.47	09-Apr-07	50.74	1761.73
TIMETMW-5	26718063.61	830385.808	1812.47	17-Jul-07	50.64	1761.83
TIMETMW-5	26718063.61	830385.808	1812.47	21-Jan-08	50.85	1761.62
TIMETMW-5	26718063.61	830385.808	1812.47	28-Apr-08	50.82	1761.65
TIMETMW-5	26718063.61	830385.808	1812.47	21-Jul-08	50.77	1761.7
TIMETMW-5	26718063.61	830385.808	1812.47	12-Jan-09	50.13	1762.34
TIMETMW-5	26718063.61	830385.808	1812.47	06-Jul-09	50.15	1762.32
TIMETMW-5	26718063.61	830385.808	1812.48	14-Apr-10	50.52	1761.96
TIMETMW-5	26718063.61	830385.808	1812.48	12-Oct-10	51.07	1761.41

Table 3-1
GROUNDWATER ELEVATION DATA
2012 ANNUAL GROUNDWATER MONITORING REPORT

Monitor Well	UTM Y Zone North-South Coordinates in Meters	UTM Y Zone East-West Coordinates in Meters	Casing Elevation	Date Measured	Depth to Water	Groundwater Elevation
TIMETMW-5	26718063.61	830385.808	1812.48	11-Apr-11	51.21	1761.27
TIMETMW-5	26718063.61	830385.808	1812.48	03-Oct-11	50.29	1762.19
TIMETMW-5	26718063.61	830385.808	1812.48	02-Apr-12	49.14	1763.34
TIMETMW-6R	26717836.95	829221.18	1812.63	22-Mar-00	43.26	1769.37
TIMETMW-6R	26717836.95	829221.18	1812.63	21-Jun-00	43.57	1769.06
TIMETMW-6R	26717836.95	829221.18	1812.63	20-Sep-00	41.57	1771.06
TIMETMW-6R	26717836.95	829221.18	1812.63	26-Sep-01	43.81	1768.82
TIMETMW-6R	26717836.95	829221.18	1812.63	12-Dec-01	43.78	1768.85
TIMETMW-6R	26717836.95	829221.18	1812.63	14-Mar-02	43.31	1769.32
TIMETMW-6R	26717836.95	829221.18	1812.63	13-Jun-02	43.25	1769.38
TIMETMW-6R	26717836.95	829221.18	1812.63	30-Sep-02	43.4	1769.23
TIMETMW-6R	26717836.95	829221.18	1812.63	18-Dec-02	43.8	1768.83
TIMETMW-6R	26717836.95	829221.18	1812.63	26-Mar-03	43.67	1768.96
TIMETMW-6R	26717836.95	829221.18	1812.63	25-Jun-03	43.71	1768.92
TIMETMW-6R	26717836.95	829221.18	1812.63	24-Sep-03	43.89	1768.74
TIMETMW-6R	26717836.95	829221.18	1812.63	18-Dec-03	43.98	1768.65
TIMETMW-6R	26717836.95	829221.18	1812.63	10-Feb-04	43.83	1768.8
TIMETMW-6R	26717836.95	829221.18	1812.63	28-Apr-04	43.52	1769.11
TIMETMW-6R	26717836.95	829221.18	1812.63	21-Jul-04	43.49	1769.14
TIMETMW-6R	26717836.95	829221.18	1812.63	25-Oct-04	43.36	1769.27
TIMETMW-6R	26717836.95	829221.18	1812.63	14-Feb-05	42.5	1770.13
TIMETMW-6R	26717836.95	829221.18	1812.63	27-Apr-05	42.55	1770.08
TIMETMW-6R	26717836.95	829221.18	1812.63	25-Jul-05	42.86	1769.77
TIMETMW-6R	26717836.95	829221.18	1812.63	26-Oct-05	42.51	1770.12
TIMETMW-6R	26717836.95	829221.18	1812.63	18-Jan-06	43.18	1769.45
TIMETMW-6R	26717836.95	829221.18	1812.63	14-Mar-06	43.23	1769.4
TIMETMW-6R	26717836.95	829221.18	1812.63	25-Apr-06	43.92	1768.71
TIMETMW-6R	26717836.95	829221.18	1812.63	13-Jun-06	43.51	1769.12
TIMETMW-6R	26717836.95	829221.18	1812.63	21-Jul-06	43.76	1768.87
TIMETMW-6R	26717836.95	829221.18	1812.63	23-Oct-06	43.72	1768.91
TIMETMW-6R	26717836.95	829221.18	1812.63	13-Dec-06	42.75	1769.88
TIMETMW-6R	26717836.95	829221.18	1812.63	24-Jan-07	43.75	1768.88
TIMETMW-6R	26717836.95	829221.18	1812.63	09-Apr-07	46.61	1766.02
TIMETMW-6R	26717836.95	829221.18	1812.63	17-Jul-07	44.1	1768.53
TIMETMW-6R	26717836.95	829221.18	1812.63	22-Oct-07	44.39	1768.24
TIMETMW-6R	26717836.95	829221.18	1812.63	21-Jan-08	43.35	1769.28
TIMETMW-6R	26717836.95	829221.18	1812.63	28-Apr-08	44.23	1768.4
TIMETMW-6R	26717836.95	829221.18	1812.63	21-Jul-08	43.04	1769.59
TIMETMW-6R	26717836.95	829221.18	1812.63	12-Jan-09	43.31	1769.32
TIMETMW-6R	26717836.95	829221.18	1812.63	06-Jul-09	42.41	1770.22
TIMETMW-6R	26717836.95	829221.18	1812.36	15-Apr-10	43.61	1768.75

Table 3-1
GROUNDWATER ELEVATION DATA
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Monitor Well	UTM Y Zone North-South Coordinates in Meters	UTM Y Zone East-West Coordinates in Meters	Casing Elevation	Date Measured	Depth to Water	Groundwater Elevation
TIMETMW-6R	26717836.95	829221.18	1812.36	12-Oct-10	44.65	1767.71
TIMETMW-6R	26717836.95	829221.18	1812.36	12-Apr-11	44.45	1767.91
TIMETMW-6R	26717836.95	829221.18	1812.36	03-Oct-11	44	1768.36
TIMETMW-6R	26717834.12	829221.0745	1812.36	02-Apr-12	43.3	1769.06
TMMW-101	26715285.26	829462.76	1881.11	17-Jul-07	72.11	1809
TMMW-101	26715285.26	829462.76	1881.11	30-Oct-07	75.1	1806.01
TMMW-101	26715285.26	829462.76	1881.11	21-Jan-08	75.46	1805.65
TMMW-101	26715285.26	829462.76	1876.91	28-Apr-08	70.72	1806.19
TMMW-101	26715285.26	829462.76	1876.91	12-Jan-09	70.75	1806.16
TMMW-101	26715285.26	829462.76	1876.91	06-Jul-09	70.05	1806.86
TMMW-101	26715285.26	829462.76	1876.91	21-Apr-10	68.25	1808.66
TMMW-101	26715285.26	829462.76	1876.91	04-Oct-10	69.82	1807.09
TMMW-101	26715285.26	829462.76	1876.91	06-Apr-11	68.39	1808.52
TMMW-101	26715285.26	829462.76	1876.91	03-Oct-11	67.47	1809.44
TMMW-101	26715285.26	829462.76	1881.109	03-Oct-11	67.47	1813.639
TMMW-101	26715285.26	829462.76	1876.91	02-Apr-12	68.52	1808.39
TMMW-101	26715285.26	829462.76	1881.109	05-Apr-12	68.44	1812.669
TMMW-102	26715433.08	830371.175	1882.34	17-Jul-07	70.95	1811.39
TMMW-102	26715433.08	830371.175	1882.34	29-Oct-07	71.89	1810.45
TMMW-102	26715433.08	830371.175	1882.34	21-Jan-08	72.67	1809.67
TMMW-102	26715433.08	830371.175	1882.46	28-Apr-08	73.13	1809.33
TMMW-102	26715433.08	830371.175	1882.46	12-Jan-09	71.19	1811.27
TMMW-102	26715433.08	830371.175	1882.46	06-Jul-09	68.54	1813.92
TMMW-102	26715433.08	830371.175	1882.46	21-Apr-10	66.31	1816.15
TMMW-102	26715433.08	830371.175	1882.46	04-Oct-10	65.91	1816.55
TMMW-102	26715433.08	830371.175	1882.46	04-Apr-11	64.77	1817.69
TMMW-102	26715433.08	830371.175	1882.335	03-Oct-11	63.52	1818.815
TMMW-102	26715433.08	830371.175	1882.46	03-Oct-11	63.52	1818.94
TMMW-102	26715433.08	830371.175	1882.46	02-Apr-12	65.74	1816.72
TMMW-102	26715433.08	830371.175	1882.335	05-Apr-12	65.62	1816.715
TMMW-103	26715583.05	831325.82	1884.95	17-Jul-07	74.29	1810.66
TMMW-103	26715583.05	831325.82	1884.95	12-Nov-07	73.81	1811.14
TMMW-103	26715583.05	831325.82	1884.95	21-Jan-08	74.77	1810.18
TMMW-103	26715583.05	831325.82	1882.95	28-Apr-08	72.78	1810.17
TMMW-103	26715583.05	831325.82	1882.95	12-Jan-09	69.98	1812.97
TMMW-103	26715583.05	831325.82	1882.95	06-Jul-09	69.75	1813.2
TMMW-103	26715583.05	831325.82	1882.95	26-Apr-10	67.68	1815.27
TMMW-103	26715583.05	831325.82	1882.947	04-Oct-10	68.26	1814.687
TMMW-103	26715583.05	831325.82	1882.95	04-Apr-11	68.42	1814.53
TMMW-103	26715583.05	831325.82	1882.95	03-Oct-11	68.1	1814.85
TMMW-103	26715583.05	831325.82	1882.95	02-Apr-12	68.19	1814.76

Table 3-1
GROUNDWATER ELEVATION DATA
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Monitor Well	UTM Y Zone North-South Coordinates in Meters	UTM Y Zone East-West Coordinates in Meters	Casing Elevation	Date Measured	Depth to Water	Groundwater Elevation
TMMW-103	26715583.05	831325.82	1884.947	09-Apr-12	68.05	1816.897
TMMW-104	26715722.71	832104.881	1885.51	17-Jul-07	73.64	1811.87
TMMW-104	26715722.71	832104.881	1885.51	23-Oct-07	74.06	1811.45
TMMW-104	26715722.71	832104.881	1885.51	21-Jan-08	73.92	1811.59
TMMW-104	26715722.71	832104.881	1885.78	28-Apr-08	74.11	1811.67
TMMW-104	26715722.71	832104.881	1885.78	12-Jan-09	68.75	1817.03
TMMW-104	26715722.71	832104.881	1885.78	06-Jul-09	71.66	1814.12
TMMW-104	26715722.71	832104.881	1885.78	20-Apr-10	71.15	1814.63
TMMW-104	26715722.71	832104.881	1885.78	04-Oct-10	67.91	1817.87
TMMW-104	26715722.71	832104.881	1885.78	06-Apr-11	72.21	1813.57
TMMW-104	26715722.71	832104.881	1885.78	03-Oct-11	71.42	1814.36
TMMW-104	26715722.71	832104.881	1885.78	02-Apr-12	72.08	1813.7
TMMW-104	26715722.71	832104.881	1885.511	09-Apr-12	71.91	1813.601
TMPZ-105	26720557.27	828703.771	1736.676	17-Jul-07	31.97	1704.706
TMPZ-105	26720557.27	828703.771	1736.676	21-Jan-08	33.05	1703.626
TMPZ-105	26720557.27	828703.771	1736.676	28-Apr-08	33.47	1703.206
TMPZ-105	26720557.27	828703.771	1736.676	21-Jul-08	33.98	1702.696
TMPZ-105	26720557.27	828703.771	1736.676	12-Jan-09	33.91	1702.766
TMPZ-105	26720557.27	828703.771	1736.676	06-Jul-09	34.05	1702.626
TMPZ-105	26720557.27	828703.771	1736.676	06-May-10	33.35	1703.326
TMPZ-105	26720557.27	828703.771	1736.676	19-Oct-10	33.29	1703.386
TMPZ-105	26720557.27	828703.771	1736.676	13-Apr-11	33.7	1702.98
TMPZ-105	26720557.27	828703.771	1736.676	03-Oct-11	34.08	1702.596
TMPZ-105	26720557.27	828703.771	1736.676	02-Apr-12	34.69	1701.986
TMPZ-106	26720359.15	829102.418	1742.252	17-Jul-07	30.54	1711.712
TMPZ-106	26720359.15	829102.418	1742.252	21-Jan-08	31.41	1710.842
TMPZ-106	26720359.15	829102.418	1742.252	28-Apr-08	31.71	1710.542
TMPZ-106	26720359.15	829102.418	1742.252	21-Jul-08	32.09	1710.162
TMPZ-106	26720359.15	829102.418	1742.252	12-Jan-09	32.05	1710.202
TMPZ-106	26720359.15	829102.418	1742.252	06-Jul-09	32.02	1710.232
TMPZ-106	26720359.15	829102.418	1742.252	06-May-10	30.84	1711.412
TMPZ-106	26720359.15	829102.418	1742.252	19-Oct-10	31.21	1711.042
TMPZ-106	26720359.15	829102.418	1742.252	14-Apr-11	31.4	1710.85
TMPZ-106	26720359.15	829102.418	1742.252	03-Oct-11	32	1710.252
TMPZ-106	26720359.15	829102.418	1742.252	02-Apr-12	32.94	1709.312
TMPZ-107	26720209.59	829386.703	1745.604	17-Jul-07	31.51	1714.094
TMPZ-107	26720209.59	829386.703	1745.604	21-Jan-08	32.65	1712.954
TMPZ-107	26720209.59	829386.703	1745.604	28-Apr-08	32.9	1712.704
TMPZ-107	26720209.59	829386.703	1745.604	21-Jul-08	33.15	1712.454
TMPZ-107	26720209.59	829386.703	1745.604	12-Jan-09	33.2	1712.404
TMPZ-107	26720209.59	829386.703	1745.604	06-Jul-09	32.98	1712.624

Table 3-1
GROUNDWATER ELEVATION DATA
2012 ANNUAL GROUNDWATER MONITORING REPORT

Monitor Well	UTM Y Zone North-South Coordinates in Meters	UTM Y Zone East-West Coordinates in Meters	Casing Elevation	Date Measured	Depth to Water	Groundwater Elevation
TMPZ-107	26720209.59	829386.703	1745.604	11-May-10	31.76	1713.844
TMPZ-107	26720209.59	829386.703	1745.604	25-Oct-10	32.41	1713.194
TMPZ-107	26720209.59	829386.703	1745.604	13-Apr-11	32.67	1712.93
TMPZ-107	26720209.59	829386.703	1745.604	03-Oct-11	33.28	1712.324
TMPZ-107	26720209.59	829386.703	1745.604	02-Apr-12	34.07	1711.534
TMPZ-108	26720032.09	829756.757	1750.46	17-Jul-07	33.75	1716.71
TMPZ-108	26720032.09	829756.757	1750.46	21-Jan-08	34.37	1716.09
TMPZ-108	26720032.09	829756.757	1750.46	28-Apr-08	34.51	1715.95
TMPZ-108	26720032.09	829756.757	1750.46	21-Jul-08	34.81	1715.65
TMPZ-108	26720032.09	829756.757	1750.46	12-Jan-09	34.78	1715.68
TMPZ-108	26720032.09	829756.757	1750.46	06-Jul-09	34.81	1715.65
TMPZ-108	26720032.09	829756.757	1750.46	11-May-10	33.8	1716.66
TMPZ-108	26720032.09	829756.757	1750.46	25-Oct-10	34.75	1715.71
TMPZ-108	26720032.09	829756.757	1750.46	14-Apr-11	34.81	1715.65
TMPZ-108	26720032.09	829756.757	1750.46	03-Oct-11	35.23	1715.23
TMPZ-108	26720032.09	829756.757	1750.46	02-Apr-12	35.43	1715.03
TMPZ-109	26719874.25	830082.661	1756.59	21-Jan-08	36.96	1719.63
TMPZ-109	26719874.25	830082.661	1756.59	28-Apr-08	37.29	1719.3
TMPZ-109	26719874.25	830082.661	1756.59	21-Jul-08	37.69	1718.9
TMPZ-109	26719874.25	830082.661	1756.59	12-Jan-09	37.43	1719.16
TMPZ-109	26719874.25	830082.661	1756.59	06-Jul-09	37.73	1718.86
TMPZ-109	26719874.25	830082.661	1756.59	05-May-10	36.45	1720.14
TMPZ-109	26719874.25	830082.661	1756.59	26-Oct-10	37.81	1718.78
TMPZ-109	26719874.25	830082.661	1756.59	25-Apr-11	37.61	1718.98
TMPZ-109	26719874.25	830082.661	1756.59	03-Oct-11	38.35	1718.24
TMPZ-109	26719874.25	830082.661	1756.59	02-Apr-12	38.17	1718.42
TMPZ-110	26719668.76	830531.856	1763.996	17-Jul-07	40.88	1723.116
TMPZ-110	26719668.76	830531.856	1763.996	21-Jan-08	39.9	1724.096
TMPZ-110	26719668.76	830531.856	1763.996	28-Apr-08	40.51	1723.486
TMPZ-110	26719668.76	830531.856	1763.996	21-Jul-08	41.2	1722.796
TMPZ-110	26719668.76	830531.856	1763.996	12-Jan-09	40.46	1723.536
TMPZ-110	26719668.76	830531.856	1763.996	06-Jul-09	41.5	1722.496
TMPZ-110	26719668.76	830531.856	1763.996	05-May-10	39.64	1724.356
TMPZ-110	26719668.76	830531.856	1763.996	26-Oct-10	41.52	1722.476
TMPZ-110	26719668.76	830531.856	1763.996	21-Apr-11	40.64	1723.36
TMPZ-110	26719668.76	830531.856	1763.996	03-Oct-11	41.92	1722.076
TMPZ-110	26719668.76	830531.856	1763.996	02-Apr-12	40.93	1723.066
TMPZ-111	26719015.17	831186.734	1783.928	17-Jul-07	44.94	1738.988
TMPZ-111	26719015.17	831186.734	1783.928	21-Jan-08	44.38	1739.548
TMPZ-111	26719015.17	831186.734	1783.928	28-Apr-08	45.03	1738.898
TMPZ-111	26719015.17	831186.734	1783.928	21-Jul-08	45.5	1738.428

Table 3-1
GROUNDWATER ELEVATION DATA
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Monitor Well	UTM Y Zone North-South Coordinates in Meters	UTM Y Zone East-West Coordinates in Meters	Casing Elevation	Date Measured	Depth to Water	Groundwater Elevation
TMPZ-111	26719015.17	831186.734	1783.928	12-Jan-09	44.77	1739.158
TMPZ-111	26719015.17	831186.734	1783.928	06-Jul-09	45.04	1738.888
TMPZ-111	26719015.17	831186.734	1783.928	04-Apr-11	44.88	1739.048
TMPZ-111	26719015.17	831186.734	1783.928	03-Oct-11	45.59	1738.3
TMPZ-111	26719015.17	831186.734	1783.928	02-Apr-12	45.3	1738.628
TMPZ-112	26718652.39	831559.744	1795.941	17-Jul-07	48.14	1747.801
TMPZ-112	26718652.39	831559.744	1795.941	21-Jan-08	47.99	1747.951
TMPZ-112	26718652.39	831559.744	1795.941	28-Apr-08	48.53	1747.411
TMPZ-112	26718652.39	831559.744	1795.941	21-Jul-08	47.83	1748.111
TMPZ-112	26718652.39	831559.744	1795.941	12-Jan-09	48.01	1747.931
TMPZ-112	26718652.39	831559.744	1795.941	06-Jul-09	48.68	1747.261
TMPZ-112	26718652.39	831559.744	1795.941	04-Apr-11	48.64	1747.301
TMPZ-112	26718652.39	831559.744	1795.941	03-Oct-11	49.18	1746.8
TMPZ-112	26718652.39	831559.744	1795.941	02-Apr-12	49.07	1746.871
TMPZ-201	26719949.98	829635.3519	1753.32	06-Jul-09	35.5	1717.82
TMPZ-202	26719810.45	829972.8678	1755.2	06-Jul-09	35.33	1719.87
TMPZ-203	26714505.04	830514.1132	1769.02	06-Jul-09	43.47	1725.55
TMPZ-204	26719018.88	832827.147	1784.39	06-Jul-09	45.11	1739.28

TABLE 3-2
ANALYTICAL RESULTS FOR WELL BRW-R1
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
ALKALINITY (reported in mg/L)							
Bicarbonate Alkalinity		60	92	74	75	73	72
ANIONS (reported in mg/L)							
Chloride	4	272	2800	**310 J**	**320**	**320**	**340**
Nitrate	10	11	128	**12 J**	**13**	**13**	**13**
Perchlorate	0.018	0.24	0.36	**0.28 J**	**0.26**	**0.29**	**0.28**
Sulfate	250	1790	21000	**2200 J**	**2000**	**1900**	**2000**
GENERAL							
Fluoride	4	1.2	1.8	1.3 J	1.4	1.3	1.2
Nitrite	1	0.5	1	0.5 U	0.5 U	0.5 U	0.5 U
Total Phosphorus		0.05	0.05	0.05 U	0.05 U	0.05 U	0.05 U
RADIONUCLIDES (reported in pCi/L)							
Alpha (Total)		-22	30	2.89 ± 4.59 U	-0.941 ± 3.68 U	5.05 ± 5.29 U	1.43 ± 7.68 UM
Adjusted Gross Alpha (Total) MCL [c]	15	-27	22.42	-7.9	-7.3	-6.9	-5.2
Beta (Total)	50	-12	72.2	5.77 ± 6.43 U	5.22 ± 7.21 U	16.7 ± 6.69	5.01 ± 12.7 UM
Uranium 238		2	4.08	3.31 ± 0.625	2.84 ± 0.565	2.75 ± 0.583	2.52 ± 0.539
Uranium 234		3	6.15	4.56 ± 0.828	4.31 ± 0.806	4.19 ± 0.825	3.9 ± 0.771
Thorium 230	0.042	-0.0484	0.127	0.034 ± 0.0542 U	-0.0105 ± 0.0512 U	0.0174 ± 0.0555 U	-0.0442 ± 0.0463 U
Radium 226	5	-0.94	1	0.411 ± 0.447 U	0.275 ± 0.205	0.157 ± 0.334 U	0.243 ± 0.179 LT
Radon 222	300	245	649	**335 ± 46.7**	**524 ± 68.7**	**522 ± 68.6**	**445 ± 58.6**
Lead 214		-7.14	63.2	-6.24 ± 11.4 UJ-	0.349 ± 7.62 UJ-	4 ± 11.1 UJ-	57.4 ± 11.4 M3J
Bismuth 214		-21	53.9	-5.49 ± 12.9 UJ-	-21 ± 9.61 UJ-	13.1 ± 10.8 UJ-	53.9 ± 13.4 J
Lead 210		0.0799	0.756	NA	NA	NA	NA
Thorium 232	0.14	-0.0111	0.025	-0.00896 ± 0.0125 U	0.0119 ± 0.0211 U	-0.00136 ± 0.0132 U	0.00507 ± 0.0124 U
Radium 228	5	-0.14	12.3	1.05 ± 0.454	0.486 ± 0.366 U	0.793 ± 0.357	0.446 ± 0.32 U
Radium MCL [d]	5	-0.06	1.64	1.05	0.28	0.79	0.24
Actinium-228		-7.31	19.2	19.2 ± 10.5 J	-4.24 ± 11.2 U	11.4 ± 7.35 U	12.3 ± 7.94 U
Thorium 228	0.11	-0.0232	0.0921	0.000572 ± 0.0599 U	0.0191 ± 0.0564 U	-0.0232 ± 0.0559 U	-0.0128 ± 0.0657 U
Lead 212		-4.67	4.22	-4.67 ± 9.34 U	1.51 ± 4.51 U	4.22 ± 6.55 U	2.26 ± 6.72 U
Bismuth 212		-31.1	46.1	34.4 ± 37.2 U	29.6 ± 19.6 U	10.5 ± 47.5 U	24.2 ± 33.6 U
Thallium 208		-1.29	5.76	-0.248 ± 5.89 U	-0.0885 ± 2.58 U	0.638 ± 6.03 U	3.38 ± 2.43 U

WELL ID: BRW-R1

TABLE 3-2
ANALYTICAL RESULTS FOR WELL BRW-R1
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
RADIONUCLIDES (reported in pCi/L)							
Potassium 40		-55.6	72	-55.6 ± 74.3 U	-20.3 ± 45.8 U	6.81 ± 95.5 U	-11.4 ± 69 U
Uranium 235		0	11.8	0.092 ± 0.0718 U	0.183 ± 0.101	0.097 ± 0.0828 U	0.219 ± 0.119
Polonium-210		0.24	0.265	NA	NA	NA	NA
Protactinium-234		-147	559	431 ± 455 U	-55.8 ± 532 U	-132 ± 589 U	357 ± 286 U
Radium-224		-4.67	4.22	-4.67 ± 9.34 U	1.51 ± 4.51 U	4.22 ± 6.55 U	2.26 ± 6.72 U
Thorium-227		-14.6	22.4	-4.63 ± 19.3 U	-10.7 ± 12.5 U	-1.31 ± 23.6 U	-5.17 ± 17.2 U
Thorium-234		-31.2	64.8	-6.93 ± 79.2 U	37.7 ± 51.6 U	19.8 ± 91.6 U	13.2 ± 75.6 U
SOLIDS (reported in mg/L)							
Total Dissolved Solids	1900	253	4200	**3700**	**3600**	**3600**	**3700**
TOTAL METAL (reported in ug/L)							
Aluminum	50	7.7	500	**500 U [f]**	**500 U [f]**	**500 U [f]**	**500 U [f]**
Antimony	6	7.6	100	**100 U [f]**	**100 U [f]**	**100 U [f]**	**100 U [f]**
Arsenic	10	17.8	46	**41**	**38**	**40**	**37**
Barium	2000	1.1	18.7	1.1 J-	9.9 J-	3.5 J	3.8 B
Beryllium	4	0.081	10	10 U [f]	**10 U [f]**	**3.3 J**	10 U [f]
Cadmium	5	0.33	25	25 U [f]	**25 U [f]**	**25 U [f]**	**25 U [f]**
Calcium		205000	460000	360000 J-	360000	350000	340000
Chromium	100	9.5	56	30 J-	43 J-	35 J	36 B
Chromium VI	100	43	54	51	47	43	43
Cobalt	10.95	0.82	50	50 U [f]	**50 U [f]**	**50 U [f]**	**50 U [f]**
Copper	1300	0.81	50	50 U	50 U	50 U	50 U
Iron	300	8.5	539	500 U [f]	**500 U [f]**	**500 U [f]**	**500 U [f]**
Lead	15	1	15	15 U	15 U	15 U	15 U
Lithium	73	150	230	**160 J+**	**160 J+**	**160 J+**	**150**
Magnesium	206955	140000	200000	170000 J-	180000	170000	170000
Manganese	20	0.18	50	50 U [f]	**50 U [f]**	**50 U [f]**	**50 U [f]**
Mercury	2	0.0048	0.22	0.04 J-	0.2 U	0.0048 J	0.0099 B
Molybdenum	182.5	84	100	85	96	85	84
Nickel	730	0.94	100	100 U	100 U	100 U	100 U

TABLE 3-2
ANALYTICAL RESULTS FOR WELL BRW-R1
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
TOTAL METAL (reported in ug/L)							
Potassium		11000	17000	12000 J	12000 J+	11000 J	11000
Selenium	50	2.1	25	25 U	25 U	25 U	25 U
Silicon		15000	18000	16000 J-	18000	16000	17000
Silver	100	0.63	50	50 U	50 U	50 U	50 U
Sodium		350000	491000	410000 J-	450000	410000 J	420000
Thallium	2	0.02	200	0.03 U	0.12 U	0.03 J	0.02 B
Tin	21900	6.2	250	250 U	250 U	250 U	250 U
Titanium	146000	2.4	100	100 U	100 U	100 U	100 U
Uranium	30	7.3	14	9.3	8.3	8.4	8.3
Vanadium	182.5	13	38.2	13 U	21 J	18 J	16 B
Zinc	10950	0.71	100	100 U	100 U	100 U	100 U
Zirconium		1	100	100 U	14 U	12 J	100 U
VOLATILES (reported in ug/L)							
1,1,1-Trichloroethane	200	0.001	5	1 U	1 U	0.001 U	1 U
1,1,2-Trichloroethane	5	0.001	5	1 U	1 U	0.001 U	1 U
1,1-Dichloroethane	2.41809	0.001	5	1 U	1 U	0.001 U	1 U
1,1-Dichloroethene	7	0.001	5	1 U	1 U	0.001 U	1 U
1,2-Dichloroethane	5	0.001	5	1 U	1 U	0.001 U	1 U
1,2-Dichloropropane	5	0.001	5	1 U	1 U	0.001 U	1 U
1,3-Dichlorobenzene	86.7327	0.001	5	1 U	1 U	0.001 U	1 U
2-Butanone	7064.52	0.01	20	10 U	10 U	0.01 U	10 U
4-Methyl-2-Pentanone	1990.91	0.01	20	10 U	10 U	0.01 U	10 U
Acetone	21782.9	0.01	96	10 U	10 U	0.01 U	10 U
Benzene	5	0.001	5	1 U	1 U	0.001 U	1 U
Bromodichloromethane	0.1173	0.001	5	**1 U [f]**	**1 U [f]**	**0.001 U**	1 U [f]
Bromoform	8.51032	0.001	5	1 U	1 U	0.001 U	1 U
Bromomethane	8.66102	0.001	10	1 U	1 U	0.001 U	1 U
Carbon Disulfide	1042.86	0.001	5	1 U	1 U	0.001 U	1 U
Carbon Tetrachloride	5	0.001	5	1 U	1 U	0.001 U	1 U

TABLE 3-2
ANALYTICAL RESULTS FOR WELL BRW-R1
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
VOLATILES (reported in ug/L)							
Chlorobenzene	100	0.001	5	1 U	1 U	0.001 U	1 U
Chloroform	0.19279	0.0035	13	**3.9**	**3.5**	**0.0035**	3.1
Chloromethane	2.7037	0.001	10	1 U	1 U	0.001 U	1 U
cis-1,2-Dichloroethene	70	0.001	1	1 U	1 U	0.001 U	1 U
Dibromochloromethane	0.14712	0.001	5	**1 U [f]**	**1 U [f]**	**0.001 U**	1 U [f]
Ethylbenzene	700	0.001	5	1 U	1 U	0.001 U	1 U
Methylene Chloride	5	0.001	5.8	1 U	1 U	0.001 U	1 U
Naphthalene	0.14314	0.001	1	**1 U [f]**	**1 U [f]**	**0.001 U**	1 U [f]
Styrene	100	0.001	5	1 U	1 U	0.001 U	1 U
Tetrachloroethene	5	0.001	5	1 U	1 U	0.001 U	1 U
Toluene	1000	0.001	5	1 U	1 U	0.001 U	1 U
Total Trihalomethanes [e]	80	0	28	3.9	3.5	0.0035	3.1
Trans-1,2-Dichloroethene	100	0.001	1	1 U	1 U	0.001 U	1 U
Trichloroethene	5	0.001	11	1 U	1 U	0.001 U	1 U
Trichlorofluoromethane	1288.24	0.001	1	1 U	1 U	0.001 U	1 U
Vinyl Chloride	2	0.001	10	1 U	1 U	0.001 U	1 U
Xylene (Total)	10000	0.002	10	2 U	10 U	0.002 U	2 U

TABLE 3-2
ANALYTICAL RESULTS FOR WELL BRW-R1
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012

Notes:

a NDEP BCL are reported in the same unit as analytical group. Source of NDEP BCL's are from May 2012 update. MCL applied where no BCL exists.
b Bolded results exceed the associated screening level.
c MCL for Adjusted Gross Alpha (Total) was calculated using the following equation
Adjusted Gross Alpha (Total) MCL = Alpha Total - (Uranium 234 + Uranium 235 + Uranium 238)
d MCL for Radium was calculated using the following equation: Radium MCL = Radium 226 + Radium 228
e Total Trihalomethanes were calculated using the following equation:
Total Trihalomethanes = Bromodichloromethane + Bromoform + Chloroform + Dibromochloromethane
f Reporting limit exceeds the screening level due to analytical limitations or sample dilution.

Qualifiers:

J Estimated value
U Analyte not detected; the reporting limit is reported in the table
R Rejected data point

+ Biased high
- Biased low
µg/L Microgram per liter
MCL Maximum contaminant level
MDC Minimum detectable concentration
mg/L Milligram per liter
NA Not anaylzed; or not calculated if components are not detected
pCi/L Picocurie per liter
QTR Quarter
SL Screening level

TABLE 3-3
ANALYTICAL RESULTS FOR WELL CLD1-R
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
ALKALINITY (reported in mg/L)							
Bicarbonate Alkalinity		66	430	250	210	190 J	NA
ANIONS (reported in mg/L)							
Chloride	4	740	5780	**1100 J**	**930**	**980 J**	**NA**
Nitrate	10	7.5	60	9 J	7.5	8.9 J	NA
Perchlorate	0.018	4.3	9700	**5.7 J**	**5.4**	**5.5 J**	**NA**
Sulfate	250	710	2780	**1300 J**	**1000**	**1100 J**	**NA**
GENERAL							
Fluoride	4	1.2	3.7	3.6 J	3.7	3.4 J	NA
Nitrite	1	0.5	1	0.5 U	0.5 UJ-	1 U	NA
Total Phosphorus		0.067	0.096	0.096	0.067	0.069	NA
RADIONUCLIDES (reported in pCi/L)							
Alpha (Total)		-34	150	9.67 ± 5.94 J-	11.6 ± 7.46	7.55 ± 4.83	NA
Adjusted Gross Alpha (Total) MCL [c]	15	-50	119.73	-10.1	-0.8	-3.6	NA
Beta (Total)	50	-14	44	14.4 ± 7.2	9 ± 12.4 U	11 ± 6.55	NA
Uranium 238		4.19	22.2	7.92 ± 1.45	4.98 ± 0.951	4.19 ± 0.817	NA
Uranium 234		6.2	32.9	11.5 ± 2.05	7.2 ± 1.32	6.65 ± 1.22	NA
Thorium 230	0.042	-0.0637	0.151	-0.0308 ± 0.05 U	0.13 ± 0.0823 J	**-0.0101 ± 0.0537 U**	NA
Radium 226	5	-0.19	1.21	0.482 ± 0.502 U	0.0832 ± 0.289 U	0.302 ± 0.296 U	NA
Radon 222	300	311	2140	**835 ± 103 J**	**922 ± 112**	**2120 ± 247**	**NA**
Lead 214		-10	367	-8.25 ± 8.09 UJ-	9.83 ± 8.97 UJ-	7.78 ± 11.5 UJ-	NA
Bismuth 214		-13	350	-8.18 ± 8.39 UJ-	11.2 ± 7.88 UJ-	12.8 ± 11.7 UJ-	NA
Lead 210		0.217	127	NA	NA	NA	NA
Thorium 232	0.14	-0.0106	0.037	0.00703 ± 0.0203 U	-0.00559 ± 0.0188 U	-0.00715 ± 0.0142 U	NA
Radium 228	5	-0.04	0.94	0.792 ± 0.38	0.407 ± 0.412 U	0.683 ± 0.351	NA
Radium MCL [d]	5	0.29	1.75	0.79	NA	0.68	NA
Actinium-228		-6.26	25	-6.26 ± 11.8 U	14.9 ± 10.1 U	9.1 ± 10.1 U	NA
Thorium 228	0.11	-0.0377	0.125	0.0225 ± 0.0539 U	0.0246 ± 0.0739 U	-0.0377 ± 0.0602 U	NA
Lead 212		-19.9	6.14	3.35 ± 4.72 U	3.55 ± 6.38 U	6.14 ± 6.93 U	NA
Bismuth 212		-50	65	24.8 ± 20 U	-3.01 ± 33.7 U	50.8 ± 50.1 U	NA
Thallium 208		-4.9	6.97	-0.183 ± 2.8 U	2.57 ± 4.92 U	4 ± 3.44 U	NA

TABLE 3-3
ANALYTICAL RESULTS FOR WELL CLD1-R
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
RADIONUCLIDES (reported in pCi/L)							
Potassium 40		-55	71.6	-30.6 ± 46.8 U	-38.4 ± 63.8 U	-7.45 ± 91.4 U	NA
Uranium 235		0.16	7.62	0.375 ± 0.159	0.24 ± 0.124	0.274 ± 0.132	NA
Polonium-210		0.0455	0.283	NA	NA	NA	NA
Protactinium-234		-340	816	221 ± 365 U	195 ± 369 U	59 ± 607 U	NA
Radium-224		-1.83	6.14	3.35 ± 4.72 U	3.55 ± 6.38 U	6.14 ± 6.93 U	NA
Thorium-227		-18.3	13.7	-6.44 ± 12.8 U	-2.25 ± 10.3 U	-3 ± 23.5 U	NA
Thorium-234		-33.5	48.6	10.1 ± 51.9 U	-15.7 ± 74.4 U	38.1 ± 88.9 U	NA
SOLIDS (reported in mg/L)							
Total Dissolved Solids	1900	3700	12500	**3800**	**3700**	**3800**	**NA**
TOTAL METAL (reported in ug/L)							
Aluminum	50	4.7	500	**500 U [f]**	**130 U [f]**	**97 J**	**NA**
Antimony	6	5.5	100	**100 U [f]**	**100 U [f]**	**100 U [f]**	**NA**
Arsenic	10	130	493	**180**	**170**	**150**	**NA**
Barium	2000	8.4	2000	11 J-	8.4 J	12 J	NA
Beryllium	4	0.081	10	10 U [f]	**10 U [f]**	**10 U [f]**	**NA**
Cadmium	5	0.33	50	25 U [f]	**25 U [f]**	**25 U [f]**	**NA**
Calcium		83000	581000	150000 J	130000	150000 J	NA
Chromium	100	151	2600	**380**	**280**	**280**	**NA**
Chromium VI	100	310	760	**420**	**320**	**310**	**NA**
Cobalt	10.95	1.6	50	50 U [f]	**50 U [f]**	**50 U [f]**	**NA**
Copper	1300	0.56	50	50 U	50 U	50 U	NA
Iron	300	3.2	1040	500 U [f]	**500 U [f]**	**500 U [f]**	**NA**
Lead	15	1.7	30	15 U	15 U	15 U	NA
Lithium	73	180	500	**320 J+**	**290 J**	**300 J+**	**NA**
Magnesium	206955	46000	350000	100000 J	86000	100000 J	NA
Manganese	20	4	358	**130**	**130**	**170**	**NA**
Mercury	2	0.0077	0.2	0.2 U	0.2 U	0.0077 J	NA
Molybdenum	182.5	74	140	100	96	74	NA
Nickel	730	1.3	100	4.9 J-	100 U	100 U	NA

TABLE 3-3
ANALYTICAL RESULTS FOR WELL CLD1-R
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
TOTAL METAL (reported in ug/L)							
Potassium		9800	66000	12000 J	9800	11000 J	NA
Selenium	50	3.6	50	25 U	25 U	25 U	NA
Silicon		40000	49000	48000	48000	49000	NA
Silver	100	0.51	100	50 U	50 U	50 U	NA
Sodium		720000	3700000	910000 J	780000	720000 J	NA
Thallium	2	0.02	200	0.02 U	0.05 U	0.04 J	NA
Tin	21900	2.8	250	250 U	250 U	250 U	NA
Titanium	146000	0.31	100	100 U	100 U	100 U	NA
Uranium	30	13	76	22	15	13	NA
Vanadium	182.5	41	7670	150	150	130	NA
Zinc	10950	0.41	210	100 U	210	100 U	NA
Zirconium		2.8	100	100 U	2.8 U	4.5 J	NA
VOLATILES (reported in ug/L)							
1,1,1-Trichloroethane	200	1	25	2 U	1 U	1 U	NA
1,1,2-Trichloroethane	5	1	25	2 U	1 U	1 U	NA
1,1-Dichloroethane	2.41809	0.095	25	2 U	1 U	1 U	NA
1,1-Dichloroethene	7	0.2	25	2 U	0.2 J	1 U	NA
1,2-Dichloroethane	5	1	25	2 U	1 U	1 U	NA
1,2-Dichloropropane	5	1	25	2 U	1 U	1 U	NA
1,3-Dichlorobenzene	86.7327	1	25	2 U	1 U	1 U	NA
2-Butanone	7064.52	10	250	20 U	10 U	10 U	NA
4-Methyl-2-Pentanone	1990.91	10	250	20 U	10 U	10 U	NA
Acetone	21782.9	2	100	20 U	10 U	10 U	NA
Benzene	5	0.19	25	2 U	1 U	1 U	NA
Bromodichloromethane	0.1173	0.64	25	**1.3 J**	**0.84 J**	**1.1**	**NA**
Bromoform	8.51032	0.92	25	2 U	1 U	1 U	NA
Bromomethane	8.66102	1	50	2 U	1 U	1 U	NA
Carbon Disulfide	1042.86	1	25	2 U	1 U	1 U	NA
Carbon Tetrachloride	5	1	25	2.2	1.3	1.8	NA

TABLE 3-3
ANALYTICAL RESULTS FOR WELL CLD1-R
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
VOLATILES (reported in ug/L)							
Chlorobenzene	100	0.48	25	0.48 J	1 U	1 U	NA
Chloroform	0.19279	210	1100	**300**	**240**	**300**	**NA**
Chloromethane	2.7037	0.18	50	2 U	1 U	1 U	NA
cis-1,2-Dichloroethene	70	1	25	2 U	1 U	1 U	NA
Dibromochloromethane	0.14712	0.17	25	**2 U [f]**	**1 U [f]**	**1 U [f]**	**NA**
Ethylbenzene	700	1	25	2 U	1 U	1 U	NA
Methylene Chloride	5	0.23	25	2 U	1 U	1 U	NA
Naphthalene	0.14314	1	2	**2 U [f]**	**1 U [f]**	**1 U [f]**	**NA**
Styrene	100	1	25	2 U	1 U	1 U	NA
Tetrachloroethene	5	0.75	25	1.6 J	1.2	0.94 J	NA
Toluene	1000	0.16	25	2 U	1 U	1 U	NA
Total Trihalomethanes [e]	80	0.84	1110.83	**301.3**	**240.84**	**301.1**	**NA**
Trans-1,2-Dichloroethene	100	1	25	2 U	1 U	1 U	NA
Trichloroethene	5	0.18	25	2 U	0.18 J	1 U	NA
Trichlorofluoromethane	1288.24	1	25	2 U	1 U	1 U	NA
Vinyl Chloride	2	1	25	2 U	1 U	1 U	NA
Xylene (Total)	10000	2	50	4 U	2 U	2 U	NA

TABLE 3-3
ANALYTICAL RESULTS FOR WELL CLD1-R
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012

Notes:

a NDEP BCL are reported in the same unit as analytical group. Source of NDEP BCL's are from May 2012 update. MCL applied where no BCL exists.
b Bolded results exceed the associated screening level.
c MCL for Adjusted Gross Alpha (Total) was calculated using the following equation
Adjusted Gross Alpha (Total) MCL = Alpha Total - (Uranium 234 + Uranium 235 + Uranium 238)
d MCL for Radium was calculated using the following equation: Radium MCL = Radium 226 + Radium 228
e Total Trihalomethanes were calculated using the following equation:
Total Trihalomethanes = Bromodichloromethane + Bromoform + Chloroform + Dibromochloromethane
f Reporting limit exceeds the screening level due to analytical limitations or sample dilution.

Qualifiers:

J Estimated value
U Analyte not detected; the reporting limit is reported in the table
R Rejected data point

+ Biased high
- Biased low
µg/L Microgram per liter
MCL Maximum contaminant level
MDC Minimum detectable concentration
mg/L Milligram per liter
NA Not anaylzed; or not calculated if components are not detected
pCi/L Picocurie per liter
QTR Quarter
SL Screening level

TABLE 3-4
ANALYTICAL RESULTS FOR WELL CLD2-R
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
ALKALINITY (reported in mg/L)							
Bicarbonate Alkalinity		170	370	NA	NA	NA	NA
ANIONS (reported in mg/L)							
Chloride	4	460	1500	NA	NA	NA	NA
Nitrate	10	5.2	12	NA	NA	NA	NA
Perchlorate	0.018	6.2	7.4	NA	NA	NA	NA
Sulfate	250	680	1500	NA	NA	NA	NA
GENERAL							
Fluoride	4	3	3	NA	NA	NA	NA
Nitrite	1			NA	NA	NA	NA
Total Phosphorus				NA	NA	NA	NA
RADIONUCLIDES (reported in pCi/L)							
Alpha (Total)				NA	NA	NA	NA
Adjusted Gross Alpha (Total) MCL [c]	15	-24.79	-24.79	NA	NA	NA	NA
Beta (Total)	50			NA	NA	NA	NA
Uranium 238		9.94	9.94	NA	NA	NA	NA
Uranium 234		14.3	14.3	NA	NA	NA	NA
Thorium 230	0.042	-0.0138	-0.0138	NA	NA	NA	NA
Radium 226	5	0.0829	0.0829	NA	NA	NA	NA
Radon 222	300	2380	2380	NA	NA	NA	NA
Lead 214		267	267	NA	NA	NA	NA
Bismuth 214		256	256	NA	NA	NA	NA
Lead 210		0.888	0.888	NA	NA	NA	NA
Thorium 232	0.14	0.0111	0.0111	NA	NA	NA	NA
Radium 228	5	0.233	0.233	NA	NA	NA	NA
Radium MCL [d]	5	0	0	NA	NA	NA	NA
Actinium-228		17.2	17.2	NA	NA	NA	NA
Thorium 228	0.11	-0.029	-0.029	NA	NA	NA	NA
Lead 212		2.97	2.97	NA	NA	NA	NA
Bismuth 212		78.2	78.2	NA	NA	NA	NA
Thallium 208		4.61	4.61	NA	NA	NA	NA

TABLE 3-4
ANALYTICAL RESULTS FOR WELL CLD2-R
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
RADIONUCLIDES (reported in pCi/L)							
Potassium 40		2.56	2.56	NA	NA	NA	NA
Uranium 235		0.549	0.549	NA	NA	NA	NA
Polonium-210				NA	NA	NA	NA
Protactinium-234		320	320	NA	NA	NA	NA
Radium-224		2.97	2.97	NA	NA	NA	NA
Thorium-227		-9.42	-9.42	NA	NA	NA	NA
Thorium-234		20	20	NA	NA	NA	NA
SOLIDS (reported in mg/L)							
Total Dissolved Solids	1900	2400	5000	NA	NA	NA	NA
TOTAL METAL (reported in ug/L)							
Aluminum	50	9.3	120	NA	NA	NA	NA
Antimony	6	9.7	40	NA	NA	NA	NA
Arsenic	10	130	490	NA	NA	NA	NA
Barium	2000	4.3	2000	NA	NA	NA	NA
Beryllium	4	0.072	2	NA	NA	NA	NA
Cadmium	5	0.54	50	NA	NA	NA	NA
Calcium		74000	484000	NA	NA	NA	NA
Chromium	100	350	1700	NA	NA	NA	NA
Chromium VI	100	330	400	NA	NA	NA	NA
Cobalt	10.95	1.9	4.5	NA	NA	NA	NA
Copper	1300	2	20	NA	NA	NA	NA
Iron	300	14	5980	NA	NA	NA	NA
Lead	15	2.6	30	NA	NA	NA	NA
Lithium	73	180	180	NA	NA	NA	NA
Magnesium	206955	38000	242000	NA	NA	NA	NA
Manganese	20	67	2290	NA	NA	NA	NA
Mercury	2	0.011	0.2	NA	NA	NA	NA
Molybdenum	182.5	82	82	NA	NA	NA	NA
Nickel	730	4.3	57	NA	NA	NA	NA

TABLE 3-4
ANALYTICAL RESULTS FOR WELL CLD2-R
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
TOTAL METAL (reported in ug/L)							
Potassium		9500	23000	NA	NA	NA	NA
Selenium	50	3.6	50	NA	NA	NA	NA
Silicon				NA	NA	NA	NA
Silver	100	0.59	100	NA	NA	NA	NA
Sodium		5000	2710000	NA	NA	NA	NA
Thallium	2	0.027	200	NA	NA	NA	NA
Tin	21900			NA	NA	NA	NA
Titanium	146000	0.77	0.77	NA	NA	NA	NA
Uranium	30	13	35	NA	NA	NA	NA
Vanadium	182.5	90	170	NA	NA	NA	NA
Zinc	10950	0.66	20	NA	NA	NA	NA
Zirconium				NA	NA	NA	NA
VOLATILES (reported in ug/L)							
1,1,1-Trichloroethane	200	1	4	NA	NA	NA	NA
1,1,2-Trichloroethane	5	1	4	NA	NA	NA	NA
1,1-Dichloroethane	2.41809	1	4	NA	NA	NA	NA
1,1-Dichloroethene	7	1	4	NA	NA	NA	NA
1,2-Dichloroethane	5	1	4	NA	NA	NA	NA
1,2-Dichloropropane	5	1	4	NA	NA	NA	NA
1,3-Dichlorobenzene	86.7327	1	4	NA	NA	NA	NA
2-Butanone	7064.52	10	40	NA	NA	NA	NA
4-Methyl-2-Pentanone	1990.91	10	40	NA	NA	NA	NA
Acetone	21782.9	40	40	NA	NA	NA	NA
Benzene	5	1	4	NA	NA	NA	NA
Bromodichloromethane	0.1173	0.54	4	NA	NA	NA	NA
Bromoform	8.51032	1	4	NA	NA	NA	NA
Bromomethane	8.66102	1	4	NA	NA	NA	NA
Carbon Disulfide	1042.86	0.43	1	NA	NA	NA	NA
Carbon Tetrachloride	5	0.64	0.74	NA	NA	NA	NA

TABLE 3-4
ANALYTICAL RESULTS FOR WELL CLD2-R
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
VOLATILES (reported in ug/L)							
Chlorobenzene	100	1	4	NA	NA	NA	NA
Chloroform	0.19279	140	140	NA	NA	NA	NA
Chloromethane	2.7037	1	4	NA	NA	NA	NA
cis-1,2-Dichloroethene	70	1	4	NA	NA	NA	NA
Dibromochloromethane	0.14712	1	4	NA	NA	NA	NA
Ethylbenzene	700	1	4	NA	NA	NA	NA
Methylene Chloride	5	1	4	NA	NA	NA	NA
Naphthalene	0.14314			NA	NA	NA	NA
Styrene	100	1	4	NA	NA	NA	NA
Tetrachloroethene	5	1.9	2.1	NA	NA	NA	NA
Toluene	1000	0.71	1	NA	NA	NA	NA
Total Trihalomethanes [e]	80	140.54	152	NA	NA	NA	NA
Trans-1,2-Dichloroethene	100	1	4	NA	NA	NA	NA
Trichloroethene	5	0.26	4	NA	NA	NA	NA
Trichlorofluoromethane	1288.24	1	4	NA	NA	NA	NA
Vinyl Chloride	2	1	4	NA	NA	NA	NA
Xylene (Total)	10000	2	8	NA	NA	NA	NA

TABLE 3-4
ANALYTICAL RESULTS FOR WELL CLD2-R
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012

Notes:

a NDEP BCL are reported in the same unit as analytical group. Source of NDEP BCL's are from May 2012 update. MCL applied where no BCL exists.
b Bolded results exceed the associated screening level.
c MCL for Adjusted Gross Alpha (Total) was calculated using the following equation
Adjusted Gross Alpha (Total) MCL = Alpha Total - (Uranium 234 + Uranium 235 + Uranium 238)
d MCL for Radium was calculated using the following equation: Radium MCL = Radium 226 + Radium 228
e Total Trihalomethanes were calculated using the following equation:
Total Trihalomethanes = Bromodichloromethane + Bromoform + Chloroform + Dibromochloromethane
f Reporting limit exceeds the screening level due to analytical limitations or sample dilution.

Qualifiers:

J Estimated value
U Analyte not detected; the reporting limit is reported in the table
R Rejected data point

+ Biased high
- Biased low
µg/L Microgram per liter
MCL Maximum contaminant level
MDC Minimum detectable concentration
mg/L Milligram per liter
NA Not anaylzed; or not calculated if components are not detected
pCi/L Picocurie per liter
QTR Quarter
SL Screening level

TABLE 3-5
ANALYTICAL RESULTS FOR WELL CLD3-R
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
ALKALINITY (reported in mg/L)							
Bicarbonate Alkalinity		72	264	NA	NA	NA	NA
ANIONS (reported in mg/L)							
Chloride	4	3050	26300	NA	NA	NA	NA
Nitrate	10	16	95.4	NA	NA	NA	NA
Perchlorate	0.018	2.9	2900	NA	NA	NA	NA
Sulfate	250	1730	5850	NA	NA	NA	NA
GENERAL							
Fluoride	4	2	2	NA	NA	NA	NA
Nitrite	1	1	2	NA	NA	NA	NA
Total Phosphorus		0.05	0.058	NA	NA	NA	NA
RADIONUCLIDES (reported in pCi/L)							
Alpha (Total)		1.43	980	NA	NA	NA	NA
Adjusted Gross Alpha (Total) MCL [c]	15	-395.6	205	NA	NA	NA	NA
Beta (Total)	50	-8	390	NA	NA	NA	NA
Uranium 238		12.5	437	NA	NA	NA	NA
Uranium 234		21	565	NA	NA	NA	NA
Thorium 230	0.042	-0.0412	0.81	NA	NA	NA	NA
Radium 226	5	-0.348	9.6	NA	NA	NA	NA
Radon 222	300	517	2080	NA	NA	NA	NA
Lead 214		-40	132	NA	NA	NA	NA
Bismuth 214		-20	126	NA	NA	NA	NA
Lead 210		-110	200	NA	NA	NA	NA
Thorium 232	0.14	-0.02	0.045	NA	NA	NA	NA
Radium 228	5	-0.88	6.5	NA	NA	NA	NA
Radium MCL [d]	5	-0.75	16.1	NA	NA	NA	NA
Actinium-228		-65	36	NA	NA	NA	NA
Thorium 228	0.11	-0.0358	0.34	NA	NA	NA	NA
Lead 212		-23	10	NA	NA	NA	NA
Bismuth 212		-29.5	57.9	NA	NA	NA	NA
Thallium 208		-19	7.4	NA	NA	NA	NA

TABLE 3-5
ANALYTICAL RESULTS FOR WELL CLD3-R
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
RADIONUCLIDES (reported in pCi/L)							
Potassium 40		-60	180	NA	NA	NA	NA
Uranium 235		0.66	24.8	NA	NA	NA	NA
Polonium-210		-0.00185	0.306	NA	NA	NA	NA
Protactinium-234		-326	612	NA	NA	NA	NA
Radium-224		-0.535	7.29	NA	NA	NA	NA
Thorium-227		-27.6	12	NA	NA	NA	NA
Thorium-234		-56.7	230	NA	NA	NA	NA
SOLIDS (reported in mg/L)							
Total Dissolved Solids	1900	7380	40400	NA	NA	NA	NA
TOTAL METAL (reported in ug/L)							
Aluminum	50	4.2	190	NA	NA	NA	NA
Antimony	6	7.5	200	NA	NA	NA	NA
Arsenic	10	60.6	237	NA	NA	NA	NA
Barium	2000	19	5000	NA	NA	NA	NA
Beryllium	4	0.14	20	NA	NA	NA	NA
Cadmium	5	0.36	125	NA	NA	NA	NA
Calcium		315000	3370000	NA	NA	NA	NA
Chromium	100	43	1180	NA	NA	NA	NA
Chromium VI	100	330	390	NA	NA	NA	NA
Cobalt	10.95	0.91	100	NA	NA	NA	NA
Copper	1300	2.5	100	NA	NA	NA	NA
Iron	300	2.8	2500	NA	NA	NA	NA
Lead	15	2	75	NA	NA	NA	NA
Lithium	73	480	750	NA	NA	NA	NA
Magnesium	206955	210000	2000000	NA	NA	NA	NA
Manganese	20	2.1	379	NA	NA	NA	NA
Mercury	2	0.0082	0.2	NA	NA	NA	NA
Molybdenum	182.5	240	290	NA	NA	NA	NA
Nickel	730	1.3	20	NA	NA	NA	NA

TABLE 3-5
ANALYTICAL RESULTS FOR WELL CLD3-R
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
TOTAL METAL (reported in ug/L)							
Potassium		21000	78000	NA	NA	NA	NA
Selenium	50	3.1	125	NA	NA	NA	NA
Silicon		32000	37000	NA	NA	NA	NA
Silver	100	1.2	250	NA	NA	NA	NA
Sodium		133000	10800000	NA	NA	NA	NA
Thallium	2	0.062	78	NA	NA	NA	NA
Tin	21900	4.8	50	NA	NA	NA	NA
Titanium	146000	5.4	20	NA	NA	NA	NA
Uranium	30	36.5	1330	NA	NA	NA	NA
Vanadium	182.5	27.3	1250	NA	NA	NA	NA
Zinc	10950	0.53	200	NA	NA	NA	NA
Zirconium		20	20	NA	NA	NA	NA
VOLATILES (reported in ug/L)							
1,1,1-Trichloroethane	200	1	50	NA	NA	NA	NA
1,1,2-Trichloroethane	5	0.19	50	NA	NA	NA	NA
1,1-Dichloroethane	2.41809	0.14	50	NA	NA	NA	NA
1,1-Dichloroethene	7	0.76	50	NA	NA	NA	NA
1,2-Dichloroethane	5	0.16	50	NA	NA	NA	NA
1,2-Dichloropropane	5	0.2	50	NA	NA	NA	NA
1,3-Dichlorobenzene	86.7327	1	50	NA	NA	NA	NA
2-Butanone	7064.52	10	500	NA	NA	NA	NA
4-Methyl-2-Pentanone	1990.91	10	500	NA	NA	NA	NA
Acetone	21782.9	3	200	NA	NA	NA	NA
Benzene	5	1	50	NA	NA	NA	NA
Bromodichloromethane	0.1173	1.3	50	NA	NA	NA	NA
Bromoform	8.51032	0.44	68	NA	NA	NA	NA
Bromomethane	8.66102	1	100	NA	NA	NA	NA
Carbon Disulfide	1042.86	1	50	NA	NA	NA	NA
Carbon Tetrachloride	5	1	50	NA	NA	NA	NA

TABLE 3-5
ANALYTICAL RESULTS FOR WELL CLD3-R
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
VOLATILES (reported in ug/L)							
Chlorobenzene	100	1	50	NA	NA	NA	NA
Chloroform	0.19279	150	2500	NA	NA	NA	NA
Chloromethane	2.7037	0.68	100	NA	NA	NA	NA
cis-1,2-Dichloroethene	70	0.18	50	NA	NA	NA	NA
Dibromochloromethane	0.14712	0.48	50	NA	NA	NA	NA
Ethylbenzene	700	1	50	NA	NA	NA	NA
Methylene Chloride	5	0.28	50	NA	NA	NA	NA
Naphthalene	0.14314	1	1	NA	NA	NA	NA
Styrene	100	1	50	NA	NA	NA	NA
Tetrachloroethene	5	1.2	68	NA	NA	NA	NA
Toluene	1000	1	50	NA	NA	NA	NA
Total Trihalomethanes [e]	80	2.52	2500	NA	NA	NA	NA
Trans-1,2-Dichloroethene	100	1	50	NA	NA	NA	NA
Trichloroethene	5	1	50	NA	NA	NA	NA
Trichlorofluoromethane	1288.24	1	50	NA	NA	NA	NA
Vinyl Chloride	2	1	50	NA	NA	NA	NA
Xylene (Total)	10000	2	100	NA	NA	NA	NA

TABLE 3-5
ANALYTICAL RESULTS FOR WELL CLD3-R
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012

Notes:

a NDEP BCL are reported in the same unit as analytical group. Source of NDEP BCL's are from May 2012 update. MCL applied where no BCL exists.
b Bolded results exceed the associated screening level.
c MCL for Adjusted Gross Alpha (Total) was calculated using the following equation
Adjusted Gross Alpha (Total) MCL = Alpha Total - (Uranium 234 + Uranium 235 + Uranium 238)
d MCL for Radium was calculated using the following equation: Radium MCL = Radium 226 + Radium 228
e Total Trihalomethanes were calculated using the following equation:
Total Trihalomethanes = Bromodichloromethane + Bromoform + Chloroform + Dibromochloromethane
f Reporting limit exceeds the screening level due to analytical limitations or sample dilution.

Qualifiers:

J Estimated value
U Analyte not detected; the reporting limit is reported in the table
R Rejected data point

+ Biased high
- Biased low
µg/L Microgram per liter
MCL Maximum contaminant level
MDC Minimum detectable concentration
mg/L Milligram per liter
NA Not anaylzed; or not calculated if components are not detected
pCi/L Picocurie per liter
QTR Quarter
SL Screening level

TABLE 3-6
ANALYTICAL RESULTS FOR WELL CLD4-R
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
ALKALINITY (reported in mg/L)							
Bicarbonate Alkalinity		58	290	260	270 J	NA	270
ANIONS (reported in mg/L)							
Chloride	4	1700	11400	**1800 J**	**1900 J**	**1700 J**	**1700**
Nitrate	10	9.3	62.8	9.7 J	9.3 J	9.4 J	9.7
Perchlorate	0.018	2.1	3.7	**2.4 J**	**2.2 J**	**2.1 J**	**2.4**
Sulfate	250	1700	2800	**2000 J**	**1800 J**	**1700 J**	**1700**
GENERAL							
Fluoride	4	3.7	5.6	**5.1 J**	**4.7 J**	**4.5 J**	**4.7**
Nitrite	1	1	1	1 U	1 U	1 U	1 U
Total Phosphorus		0.1	0.27	0.19	0.19	0.27	0.19
RADIONUCLIDES (reported in pCi/L)							
Alpha (Total)		-18	19.5	19.5 ± 10.4 J-	6.62 ± 5.99 U	14.4 ± 9.82 U	3.53 ± 8.14 U
Adjusted Gross Alpha (Total) MCL [c]	15	-24.28	13.19	13.2	-6.4	-8.8	-7.1
Beta (Total)	50	-12.3	37	28.6 ± 13.7	2.42 ± 13.5 U	8.76 ± 12.7 U	6.51 ± 12 U
Uranium 238		2.23	3.69	2.23 ± 0.48	2.84 ± 0.549	3.54 ± 0.691	3.05 ± 0.712
Uranium 234		3	5.08	3.85 ± 0.751	3.47 ± 0.652	5.08 ± 0.943	4.05 ± 0.892
Thorium 230	0.042	-0.0595	0.186	0.0114 ± 0.0509 U	-0.0595 ± 0.0458 U	0.146 ± 0.0872	**0.186 ± 0.0768 J**
Radium 226	5	0.0273	0.578	0.411 ± 0.468 U	0.578 ± 0.347	0.276 ± 0.249 U	0.076 ± 0.187 U
Radon 222	300	706	1100	**706 ± 89.6 J**	**898 ± 110**	**1100 ± 133**	**822 ± 100**
Lead 214		-13.6	62.5	-13.6 ± 13.3 UJ-	1.44 ± 9.67 UJ-	5.89 ± 10.3 UJ-	62.5 ± 12 J-
Bismuth 214		-6.41	58.1	-6.41 ± 15.9 UJ-	10.1 ± 5.35 J-	12.4 ± 10.3 UJ-	58.1 ± 13.8 J-
Lead 210		0.433	0.819	NA	NA	NA	NA
Thorium 232	0.14	0.0019	0.0311	0.012 ± 0.0156 U	0.0087 ± 0.0157 U	0.0311 ± 0.0362 U	0.0141 ± 0.0156 U
Radium 228	5	-0.28	0.59	0.329 ± 0.294 U	-0.0301 ± 0.291 U	0.21 ± 0.268 U	0.257 ± 0.281 U
Radium MCL [d]	5	0.09	0.85	NA	0.58	NA	NA
Actinium-228		-9.47	24	24 ± 11 J	14.4 ± 11.2 U	12.9 ± 10.7 U	18.2 ± 10.7 J
Thorium 228	0.11	-0.0408	0.0374	-0.00581 ± 0.0521 U	0.0223 ± 0.058 U	-0.0355 ± 0.0685 U	0.0374 ± 0.0484 U
Lead 212		-2.77	6.62	1.5 ± 7.32 U	-2.77 ± 7.25 U	-0.997 ± 7.94 U	-0.124 ± 7.34 U
Bismuth 212		12.9	58.5	25.9 ± 37.2 U	37.6 ± 37.9 U	13.8 ± 39.6 U	42.4 ± 39.6 U
Thallium 208		0.565	5.48	0.565 ± 4.74 U	3.42 ± 2.53 U	1.66 ± 2.62 U	1.75 ± 5.36 U

TABLE 3-6
ANALYTICAL RESULTS FOR WELL CLD4-R
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
RADIONUCLIDES (reported in pCi/L)							
Potassium 40		-35.9	219	-31.3 ± 69.3 U	-23 ± 79.5 U	-29.1 ± 74.4 U	-5.62 ± 72.2 U
Uranium 235		0.0862	0.28	0.227 ± 0.113	0.133 ± 0.0768	0.222 ± 0.11	0.108 ± 0.108 U
Polonium-210		0.25	0.384	NA	NA	NA	NA
Protactinium-234		191	437	324 ± 456 U	437 ± 459 U	283 ± 296 U	434 ± 391 U
Radium-224		-2.77	6.62	1.5 ± 7.32 U	-2.77 ± 7.25 U	-0.997 ± 7.94 U	-0.124 ± 7.34 U
Thorium-227		-15.3	7.63	-12.6 ± 19.1 U	2.8 ± 11 U	7.61 ± 11 U	5.19 ± 19.4 U
Thorium-234		-0.501	78.2	24.7 ± 98.7 U	21.1 ± 51.7 U	3.2 ± 49.2 U	44.7 ± 76.8 U
SOLIDS (reported in mg/L)							
Total Dissolved Solids	1900	5100	17600	**5700**	**6200**	**5100 J**	**6000**
TOTAL METAL (reported in ug/L)							
Aluminum	50	14	590	**500 U [f]**	**170 U [f]**	**380 J**	**210 J**
Antimony	6	3.3	100	**100 U [f]**	**100 U [f]**	**100 U [f]**	**15 U [f]**
Arsenic	10	90.2	592	**440**	**460**	**400**	**450**
Barium	2000	3.7	2000	3.7 J-	5.1 J-	16 J	4 J
Beryllium	4	0.081	10	3.4 U	8.5 U [f]	**5.9 J**	**7 J**
Cadmium	5	0.33	50	25 U [f]	**25 U [f]**	**25 U [f]**	**1.6 U**
Calcium		30000	2500000	44000 J	37000 J	80000 J	45000
Chromium	100	175	1030	**390**	**440**	**410**	**430**
Chromium VI	100	320	690	**370**	**580**	**380**	**590**
Cobalt	10.95	0.57	50	50 U [f]	**50 U [f]**	**50 U [f]**	**2.2 U**
Copper	1300	0.79	50	50 U	50 U	8.1 J	4.8 U
Iron	300	2.4	1000	500 U [f]	**500 U [f]**	**230 J**	25 U
Lead	15	1.1	30	15 U	15 U	15 U	6.4 U
Lithium	73	130	320	**140 J+**	**130 J+**	**320 J+**	**150**
Magnesium	206955	7500	1290000	12000 J	10000 J	42000 J	15000
Manganese	20	4.4	770	4.4 U	44 J-	**770**	**170**
Mercury	2	0.0029	0.2	0.2 U	0.2 U	0.035 J	0.0029 U
Molybdenum	182.5	300	350	**310**	**310**	**320**	**350**
Nickel	730	0.84	100	100 U	100 U	100 U	4.7 U

TABLE 3-6
ANALYTICAL RESULTS FOR WELL CLD4-R
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
TOTAL METAL (reported in ug/L)							
Potassium		7800	15000	8300	7800 J+	9400 J	8000
Selenium	50	4.8	50	25 U	25 U	25 U	13 U
Silicon		38000	41000	38000	41000	38000	41000
Silver	100	0.76	100	50 U	50 U	50 U	5.4 U
Sodium		450000	4120000	1800000 J	1800000	1600000 J	1800000
Thallium	2	0.05	41	0.08 U	0.08 U	0.11 J	0.05 J
Tin	21900	2.4	250	250 U	250 U	250 U	14 U
Titanium	146000	0.66	870	100 U	200	870	140
Uranium	30	6.4	114	7.1	8	9.8	8.8
Vanadium	182.5	30.2	13000	**12000**	**12000**	**11000**	**12000**
Zinc	10950	1.3	100	100 U	100 U	16 J	3.6 U
Zirconium		2.5	100	100 U	100 U	28 J	2.5 U
VOLATILES (reported in ug/L)							
1,1,1-Trichloroethane	200	0.3	50	2 U	2 U	2 U	0.3 U
1,1,2-Trichloroethane	5	0.3	50	2 U	2 U	2 U	0.3 U
1,1-Dichloroethane	2.41809	0.19	50	0.53 J	2 U	2 U	0.3 U
1,1-Dichloroethene	7	0.49	50	1.1 J	0.66 J	2 U	0.49 J
1,2-Dichloroethane	5	0.19	50	2 U	2 U	2 U	0.3 U
1,2-Dichloropropane	5	0.22	50	0.41 J	2 U	2 U	0.3 U
1,3-Dichlorobenzene	86.7327	0.3	50	2 U	2 U	2 U	0.3 U
2-Butanone	7064.52	3	500	20 U	20 U	20 U	3 U
4-Methyl-2-Pentanone	1990.91	3	500	20 U	20 U	20 U	3 U
Acetone	21782.9	3.9	200	20 U	20 U	20 U	6.4 U
Benzene	5	0.3	50	2 U	2 U	2 U	0.3 U
Bromodichloromethane	0.1173	0.85	50	**3.7**	**2.8**	**2.2**	**2.4**
Bromoform	8.51032	0.24	50	0.86 J	2 U	2 U	0.56 J
Bromomethane	8.66102	0.3	100	2 U	2 U	2 U	0.3 U
Carbon Disulfide	1042.86	0.3	50	2 U	2 U	2 U	0.3 U
Carbon Tetrachloride	5	2.4	50	**15**	**9.6**	**8.3**	**9**

TABLE 3-6
ANALYTICAL RESULTS FOR WELL CLD4-R
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
VOLATILES (reported in ug/L)							
Chlorobenzene	100	0.3	50	2 U	2 U	2 U	0.3 U
Chloroform	0.19279	290	1400	**840**	**900**	**820**	**740**
Chloromethane	2.7037	0.32	100	2 U	2 U	2 U	0.33 U
cis-1,2-Dichloroethene	70	0.3	50	2 U	1.5 J	2 U	0.3 U
Dibromochloromethane	0.14712	0.32	50	**0.72 J**	**0.5 J**	**2 U [f]**	**0.47 J**
Ethylbenzene	700	0.3	50	2 U	2 U	2 U	0.3 U
Methylene Chloride	5	0.32	50	2 U	0.45 U	2.4 J	0.32 U
Naphthalene	0.14314	0.42	5	**2 U [f]**	**2 U [f]**	**2 U [f]**	**0.42 U [f]**
Styrene	100	0.3	50	2 U	2 U	2 U	0.3 U
Tetrachloroethene	5	0.49	52	1.1 J	0.52 J	0.72 J	0.64 J
Toluene	1000	0.3	50	2 U	2 U	2 U	0.3 U
Total Trihalomethanes [e]	80	1.7	1400	**845.28**	**903.3**	**822.2**	**743.43**
Trans-1,2-Dichloroethene	100	0.3	50	2 U	2 U	2 U	0.3 U
Trichloroethene	5	0.29	50	0.41 J	2 U	2 U	0.3 U
Trichlorofluoromethane	1288.24	0.3	50	2 U	2 U	2 U	0.3 U
Vinyl Chloride	2	0.3	50	2 U	2.6	**2 U**	0.3 U
Xylene (Total)	10000	0.6	100	4 U	4 U	2 U	0.6 U

TABLE 3-6
ANALYTICAL RESULTS FOR WELL CLD4-R
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012

Notes:

a NDEP BCL are reported in the same unit as analytical group. Source of NDEP BCL's are from May 2012 update. MCL applied where no BCL exists.
b Bolded results exceed the associated screening level.
c MCL for Adjusted Gross Alpha (Total) was calculated using the following equation
Adjusted Gross Alpha (Total) MCL = Alpha Total - (Uranium 234 + Uranium 235 + Uranium 238)
d MCL for Radium was calculated using the following equation: Radium MCL = Radium 226 + Radium 228
e Total Trihalomethanes were calculated using the following equation:
Total Trihalomethanes = Bromodichloromethane + Bromoform + Chloroform + Dibromochloromethane
f Reporting limit exceeds the screening level due to analytical limitations or sample dilution.

Qualifiers:

J Estimated value
U Analyte not detected; the reporting limit is reported in the table
R Rejected data point

+ Biased high
- Biased low
µg/L Microgram per liter
MCL Maximum contaminant level
MDC Minimum detectable concentration
mg/L Milligram per liter
NA Not anaylzed; or not calculated if components are not detected
pCi/L Picocurie per liter
QTR Quarter
SL Screening level

TABLE 3-7
ANALYTICAL RESULTS FOR WELL J2D1-R2
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
ALKALINITY (reported in mg/L)							
Bicarbonate Alkalinity		84	230	84	87	89	89
ANIONS (reported in mg/L)							
Chloride	4	1090	3000	**2300**	**3000**	**2800**	**2600**
Nitrate	10	10	65	**11**	**10**	10	11
Perchlorate	0.018	1.7	2.5	**2**	**1.9**	**1.7**	**1.8**
Sulfate	250	1300	2730	**1400**	**1500**	**1500**	**1300**
GENERAL							
Fluoride	4	0.88	2	1.3	1.2	2 U	1.1
Nitrite	1	0.5	2	1 U	1 U	2 U [f]	**1 U**
Total Phosphorus		0.05	0.062	0.059	0.05 U	0.051	0.05 U
RADIONUCLIDES (reported in pCi/L)							
Alpha (Total)		13.8	159	22.8 ± 10.8	19.4 ± 10.3	30.7 ± 11	28.8 ± 10.1
Adjusted Gross Alpha (Total) MCL [c]	15	-74.43	85.4	-12.3	-20.7	-8.5	-11.2
Beta (Total)	50	16.7	83	43.9 ± 15.1	25.6 ± 13.8	25.9 ± 13.2	29.5 ± 14
Uranium 238		11	51	15.1 ± 2.55	17 ± 3.1	16.7 ± 2.69	16.4 ± 3.11
Uranium 234		15	66	19.3 ± 3.22	22.2 ± 4	21.8 ± 3.48	22.6 ± 4.11
Thorium 230	0.042	-0.0482	0.97	-0.00541 ± 0.0546 U	-0.0232 ± 0.0661 U	-0.0265 ± 0.0548 U	-0.00796 ± 0.062 U
Radium 226	5	-0.7	2.67	0.27 ± 0.362 U	1.34 ± 0.574	0.804 ± 0.457	1.51 ± 0.607
Radon 222	300	931	2190	**NA**	1870 ± 218	**2130 ± 248**	**1980 ± 230**
Lead 214		-33	439	6.91 ± 5.8 UJ-	16.5 ± 9.19 UJ-	-7.41 ± 10.5 UJ-	26.4 ± 8.21 J-
Bismuth 214		-24	400	3.37 ± 11.9 UJ-	21.1 ± 13.9 UJ-	7.42 ± 11.5 UJ-	30.4 ± 9.49 J-
Lead 210		0.404	210	NA	NA	NA	NA
Thorium 232	0.14	-0.013	0.26	0.00738 ± 0.0169 U	-0.000747 ± 0.0199 U	0.00286 ± 0.0185 U	-0.00444 ± 0.0247 U
Radium 228	5	-0.19	1.68	0.872 ± 0.438	0.926 ± 0.425 J	1.64 ± 0.58 J	0.00326 ± 0.321 U
Radium MCL [d]	5	0.02	3.99	0.87	2.27	2.44	1.51
Actinium-228		-28	45	19.8 ± 13 U	9.9 ± 21.9 U	16.6 ± 9.54 J	16.2 ± 9.09 J
Thorium 228	0.11	-0.0338	0.47	0.0492 ± 0.0682 U	0.0746 ± 0.0948 U	-0.0244 ± 0.0578 U	0.0164 ± 0.0678 U
Lead 212		-32	9.73	3.69 ± 8.05 U	-0.8 ± 7.67 U	1.21 ± 6.75 U	3.86 ± 6.13 U
Bismuth 212		-50	57.2	21.5 ± 41.8 U	4.37 ± 46.4 U	23.3 ± 31.8 U	16.5 ± 33.9 U
Thallium 208		-21	6.81	1 ± 4.85 U	0.88 ± 6.22 U	2.81 ± 2.26 U	-0.337 ± 4.56 U

TABLE 3-7
ANALYTICAL RESULTS FOR WELL J2D1-R2
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
RADIONUCLIDES (reported in pCi/L)							
Potassium 40		-110	165	27 ± 73.4 U	-8.87 ± 90.1 U	22.7 ± 65.9 U	23.2 ± 63.1 U
Uranium 235		0.39	14.2	0.661 ± 0.228	0.939 ± 0.32	0.696 ± 0.175	0.983 ± 0.534
Polonium-210		0.0223	0.0999	NA	NA	NA	NA
Protactinium-234		-467	621	482 ± 464 U	284 ± 602 U	185 ± 378 U	291 ± 377 U
Radium-224		-3.14	9.73	3.69 ± 8.05 U	-0.8 ± 7.67 U	1.21 ± 6.75 U	3.86 ± 6.13 U
Thorium-227		-45	6.98	-7.35 ± 19.6 U	6.53 ± 23.2 U	-0.434 ± 10.1 U	5.82 ± 6.3 U
Thorium-234		-48.7	159	42.9 ± 88.1 U	29.8 ± 87.1 U	2.42 ± 67.3 U	20.8 ± 32.9 U
SOLIDS (reported in mg/L)							
Total Dissolved Solids	1900	4450	8560	**6000**	**7700**	**7400**	**7300**
TOTAL METAL (reported in ug/L)							
Aluminum	50	14	1000	**78 U [f]**	**500 U [f]**	**100 J**	**76 U [f]**
Antimony	6	7.6	200	**100 U [f]**	**100 U [f]**	**100 U [f]**	**15 U [f]**
Arsenic	10	48	318	**140**	**140**	**130**	**130**
Barium	2000	13.5	1530	29 U	36 J	25 J	22 J
Beryllium	4	0.081	20	**1.9 U**	10 U [f]	**10 U [f]**	**0.88 U**
Cadmium	5	0.33	50	**25 U [f]**	**25 U [f]**	**25 U [f]**	**1.6 U**
Calcium		540000	1150000	760000	910000	760000 J	770000
Chromium	100	39	321	64	53	47 J	51
Chromium VI	100	59	86	70	67 J-	61	62
Cobalt	10.95	0.82	100	**50 U [f]**	**50 U [f]**	**50 U [f]**	**2.2 U**
Copper	1300	1	100	50 U	50 U	50 U	4.8 U
Iron	300	2.7	91400	**42 U**	500 U [f]	**500 U [f]**	**25 U**
Lead	15	1.8	45	**15 U**	15 U	15 U	6.4 U
Lithium	73	420	530	**450 J+**	**480 J**	**440 J+**	**460**
Magnesium	206955	260000	597000	**370000**	**450000**	**360000**	**370000**
Manganese	20	0.16	2080	**1.6 U**	50 U [f]	**50 U [f]**	**0.57 U**
Mercury	2	0.0061	0.2	0.2 U	0.2 U	0.0061 J	0.036 J
Molybdenum	182.5	41	190	90	170	190	**170**
Nickel	730	0.72	200	8.7 J	100 U	100 U	4.7 U

TABLE 3-7
ANALYTICAL RESULTS FOR WELL J2D1-R2
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
TOTAL METAL (reported in ug/L)							
Potassium		17000	34000	27000 J+	32000 J	30000	32000
Selenium	50	4	50	25 U	25 U	25 U	13 U
Silicon		40000	47000	44000	47000	45000	47000
Silver	100	0.83	100	50 U	50 U	50 U	5.4 U
Sodium		450000	820000	590000	730000	820000	810000
Thallium	2	0.02	200	0.04 U	0.05 U	0.05 J	0.05 J
Tin	21900	14	500	250 U	250 U	250 U	14 U
Titanium	146000	1.4	200	100 U	100 U	100 U	1.4 U
Uranium	30	35	160	**43**	**50**	**47**	**49**
Vanadium	182.5	24	357	93	92	90	95
Zinc	10950	0.36	100	100 U	4.6 U	100 U	3.6 U
Zirconium		2.5	20	8.6 U	9.9 U	8 J	2.5 U
VOLATILES (reported in ug/L)							
1,1,1-Trichloroethane	200	0.3	10	2 U	1 U	1 U	0.3 U
1,1,2-Trichloroethane	5	0.3	10	2 U	1 U	1 U	0.3 U
1,1-Dichloroethane	2.41809	0.25	10	2 U	1 U	1 U	0.3 U
1,1-Dichloroethene	7	1.5	8	2.1	2.2	2.1	1.5
1,2-Dichloroethane	5	0.16	10	2 U	0.29 J	1 U	0.3 J
1,2-Dichloropropane	5	0.14	10	2 U	1 U	1 U	0.3 U
1,3-Dichlorobenzene	86.7327	0.3	10	2 U	1 U	1 U	0.3 U
2-Butanone	7064.52	3	40	20 U	10 U	10 U	3 U
4-Methyl-2-Pentanone	1990.91	3	40	20 U	10 U	10 U	3 U
Acetone	21782.9	3.5	40	20 RU	10 U	10 U	6.4 U
Benzene	5	0.3	10	2 U	1 U	1 U	0.3 U
Bromodichloromethane	0.1173	0.17	10	**2 U [f]**	**1 U [f]**	**1 U [f]**	**0.3 U [f]**
Bromoform	8.51032	0.3	10	2 U	1 U	1 U	0.3 U
Bromomethane	8.66102	0.3	20	2 U	1 U	1 U	0.3 U
Carbon Disulfide	1042.86	0.3	10	2 U	1 U	1 U	0.3 U
Carbon Tetrachloride	5	0.36	10	0.7 J	0.65 J	0.79 J	0.36 J

TABLE 3-7
ANALYTICAL RESULTS FOR WELL J2D1-R2
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
VOLATILES (reported in ug/L)							
Chlorobenzene	100	0.3	10	2 U	1 U	1 U	0.3 U
Chloroform	0.19279	40	88	**54**	**55**	**57**	**55**
Chloromethane	2.7037	0.33	20	2 U	1 U	1 U	0.33 U
cis-1,2-Dichloroethene	70	0.24	4	2 U	1 U	1 U	0.3 U
Dibromochloromethane	0.14712	0.3	10	**2 U [f]**	**1 U [f]**	**1 U [f]**	**0.3 U [f]**
Ethylbenzene	700	0.3	10	2 U	1 U	1 U	0.3 U
Methylene Chloride	5	0.18	24	2 U	1 U	1 U	0.32 U
Naphthalene	0.14314	0.42	2	**2 U [f]**	**1 U [f]**	**1 U [f]**	**0.42 U [f]**
Styrene	100	0.3	10	2 U	1 U	1 U	0.3 U
Tetrachloroethene	5	25	250	**42**	**39**	**41**	**25**
Toluene	1000	0.3	10	2 U	1 U	1 U	0.3 U
Total Trihalomethanes [e]	80	0.17	103	54	55	57	55
Trans-1,2-Dichloroethene	100	0.3	4	2 U	1 U	1 U	0.3 U
Trichloroethene	5	0.69	15	1 J	0.86 J	0.87 J	0.69 J
Trichlorofluoromethane	1288.24	0.3	4	2 U	1 U	1 U	0.3 U
Vinyl Chloride	2	0.3	10	2 U	1 U	1 U	0.3 U
Xylene (Total)	10000	0.6	20	4 U	2 U	2 U	0.6 U

TABLE 3-7
ANALYTICAL RESULTS FOR WELL J2D1-R2
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012

Notes:

a NDEP BCL are reported in the same unit as analytical group. Source of NDEP BCL's are from May 2012 update. MCL applied where no BCL exists.
b Bolded results exceed the associated screening level.
c MCL for Adjusted Gross Alpha (Total) was calculated using the following equation
Adjusted Gross Alpha (Total) MCL = Alpha Total - (Uranium 234 + Uranium 235 + Uranium 238)
d MCL for Radium was calculated using the following equation: Radium MCL = Radium 226 + Radium 228
e Total Trihalomethanes were calculated using the following equation:
Total Trihalomethanes = Bromodichloromethane + Bromoform + Chloroform + Dibromochloromethane
f Reporting limit exceeds the screening level due to analytical limitations or sample dilution.

Qualifiers:

J Estimated value
U Analyte not detected; the reporting limit is reported in the table
R Rejected data point

+ Biased high
- Biased low
µg/L Microgram per liter
MCL Maximum contaminant level
MDC Minimum detectable concentration
mg/L Milligram per liter
NA Not anaylzed; or not calculated if components are not detected
pCi/L Picocurie per liter
QTR Quarter
SL Screening level

TABLE 3-8
ANALYTICAL RESULTS FOR WELL J2D2-R2
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
ALKALINITY (reported in mg/L)							
Bicarbonate Alkalinity		66	116	98	96	96	96 J
ANIONS (reported in mg/L)							
Chloride	4	543	3300	**1500 J**	**1500**	**1700**	**1400 J**
Nitrate	10	21.4	63.8	**40 J**	**39**	**39**	**40 J**
Perchlorate	0.018	0.66	0.84	**0.67 J**	**0.66**	**0.67**	**0.7 J**
Sulfate	250	851	2690	**1800 J**	**1700**	**1600**	**1600 J**
GENERAL							
Fluoride	4	0.94	1.6	1.1 J	1.1	1.4	1 J
Nitrite	1	0.5	1	0.5 U	0.5 U	1 U	0.5 U
Total Phosphorus		0.05	0.086	0.086	0.05 U	0.054	0.05 U
RADIONUCLIDES (reported in pCi/L)							
Alpha (Total)		15	78.7	40.1 ± 11.7 J-	26.1 ± 9.36	31.8 ± 9.94	32.5 ± 9.81
Adjusted Gross Alpha (Total) MCL [c]	15	-92	18.54	-19.7	-34.1	-30.3	-28.7
Beta (Total)	50	14.2	34	28.6 ± 13.8	16.8 ± 13.1 U	27.8 ± 13.4	17.1 ± 12.3 U
Uranium 238		9.7	39	26.1 ± 4.48	26.5 ± 4.69	27.3 ± 4.86	26 ± 4.43
Uranium 234		12	51	32.4 ± 5.52	32.4 ± 5.69	33.5 ± 5.92	34 ± 5.75
Thorium 230	0.042	-0.0618	0.0797	-0.0618 ± 0.0527 U	-0.00924 ± 0.0633 U	0.003 ± 0.0627 U	-0.0171 ± 0.0575 U
Radium 226	5	-0.41	1.02	0.248 ± 0.312 U	0.484 ± 0.468 U	0.403 ± 0.338 U	0.476 ± 0.324 J
Radon 222	300	1360	2070	**1660 ± 196**	**2070 ± 240**	**1910 ± 223**	**1710 ± 201**
Lead 214		-6.8	215	-6.8 ± 8.24 UJ-	11.9 ± 6.23 J-	4.18 ± 5.99 UJ-	215 ± 27.2 J-
Bismuth 214		-24.9	201	-2.78 ± 8.52 UJ-	1.31 ± 14 UJ-	10.9 ± 5.31 J-	201 ± 27.8 J
Lead 210		0.254	0.914	NA	NA	NA	NA
Thorium 232	0.14	-0.0113	0.0127	0.00752 ± 0.0229 U	-0.00844 ± 0.0192 U	0.00636 ± 0.0186 U	0.00196 ± 0.0257 U
Radium 228	5	0.368	1.25	1.05 ± 0.478	0.821 ± 0.401 J	1.25 ± 0.493 J	0.586 ± 0.377 U
Radium MCL [d]	5	0.4	2.24	1.05	0.82	1.25	0.48
Actinium-228		-4.57	22.2	-0.67 ± 12.1 U	10.6 ± 13.1 U	-0.922 ± 19.6 U	10.6 ± 8.29 U
Thorium 228	0.11	-0.0657	0.0466	0.016 ± 0.0733 U	0.00128 ± 0.0725 U	-0.00936 ± 0.0643 U	-0.0657 ± 0.0699 U
Lead 212		-2.14	3.77	3.77 ± 4.88 U	-0.872 ± 7.66 U	0.322 ± 7.24 U	2.16 ± 7.2 U
Bismuth 212		-10.1	40.8	7.49 ± 43.7 U	2.56 ± 48.8 U	40.8 ± 36 U	22 ± 37.2 U
Thallium 208		-0.117	4.9	-0.117 ± 2.83 U	3.86 ± 3.37 U	3.62 ± 2.51 U	1.93 ± 6.03 U

WELL ID: J2D2-R2

TABLE 3-8
ANALYTICAL RESULTS FOR WELL J2D2-R2
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
RADIONUCLIDES (reported in pCi/L)							
Potassium 40		-70.2	27	-31.8 ± 47.3 U	-6.53 ± 86.6 U	-3.24 ± 71 U	5.75 ± 74.4 U
Uranium 235		0.56	2	1.28 ± 0.346	1.3 ± 0.384	1.29 ± 0.386	1.17 ± 0.319
Polonium-210		0.0313	0.101	NA	NA	NA	NA
Protactinium-234		-240	505	152 ± 323 U	504 ± 476 U	249 ± 263 U	-240 ± 523 U
Radium-224		-2.14	3.77	3.77 ± 4.88 U	-0.872 ± 7.66 U	0.322 ± 7.24 U	2.16 ± 7.2 U
Thorium-227		-14.1	13.9	-14 ± 13.5 U	13.9 ± 14.7 U	10 ± 18.2 U	-4.4 ± 22.4 U
Thorium-234		-39.4	53.2	6.01 ± 51 U	8.57 ± 96.3 U	53.2 ± 138 U	-27.6 ± 47.7 U
SOLIDS (reported in mg/L)							
Total Dissolved Solids	1900	4100	9100	**5300**	**5400**	**5700**	**5800 J**
TOTAL METAL (reported in ug/L)							
Aluminum	50	4.5	500	500 U [f]	**110 U [f]**	**500 U [f]**	**76 U [f]**
Antimony	6	7.6	100	**100 U [f]**	**100 U [f]**	**100 U [f]**	**15 U [f]**
Arsenic	10	96	156	**130**	**140**	**130**	**130**
Barium	2000	11	237	12 J-	14 J	14 J	11 J
Beryllium	4	0.081	10	10 U [f]	**1.1 U**	10 U [f]	**0.88 U**
Cadmium	5	0.33	25	25 U [f]	**25 U [f]**	**25 U [f]**	**1.6 U**
Calcium		590000	1100000	630000 J	710000	710000 J	680000 J
Chromium	100	40	81.9	47 U	42 J	45 J	47 J
Chromium VI	100	46	65	65	52 J-	57	59
Cobalt	10.95	1.9	50	50 U [f]	**50 U [f]**	**50 U [f]**	**2.2 U**
Copper	1300	1	50	50 U	50 U	50 U	4.8 U
Iron	300	2	9230	500 U [f]	**500 U [f]**	**500 U [f]**	**25 U**
Lead	15	0.96	15	15 U	15 U	15 U	6.4 U
Lithium	73	480	650	**480 J+**	**490 J**	**550 J+**	**510 J**
Magnesium	206955	270000	480000	**280000 J**	**310000**	**320000**	**310000 J**
Manganese	20	0.2	178	50 U [f]	**50 U [f]**	**50 U [f]**	**0.57 U**
Mercury	2	0.0042	0.2	0.2 U	0.017 U	0.0088 J	0.037 J
Molybdenum	182.5	17	32	19 J-	21 J	22 J	17 J
Nickel	730	1.2	100	100 U	100 U	100 U	4.7 U

TABLE 3-8
ANALYTICAL RESULTS FOR WELL J2D2-R2
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
TOTAL METAL (reported in ug/L)							
Potassium		15000	30000	15000 J	15000	15000	15000 J
Selenium	50	4.2	25	25 U	25 U	25 U	13 U
Silicon		37000	46000	41000	46000	44000	44000
Silver	100	0.61	50	50 U	50 U	50 U	5.4 U
Sodium		400000	729000	440000 J	470000	450000	470000 J
Thallium	2	0.025	200	0.05 U	0.04 U	0.05 J	0.04 J
Tin	21900	2.3	250	250 U	250 U	250 U	14 U
Titanium	146000	1.4	100	100 U	100 U	100 U	1.4 U
Uranium	30	33	115	**77**	**79**	**80**	**76**
Vanadium	182.5	31	74.6	49 J-	51	47 J	47 J
Zinc	10950	0.99	100	100 U	100 U	100 U	3.6 U
Zirconium		2.5	100	100 U	6.9 U	15 J	2.5 U
VOLATILES (reported in ug/L)							
1,1,1-Trichloroethane	200	0.3	5	1 U	1 U	1 U	0.3 U
1,1,2-Trichloroethane	5	0.3	5	1 U	1 U	1 U	0.3 U
1,1-Dichloroethane	2.41809	0.23	5	0.42 J	0.33 J	0.36 J	0.3 U
1,1-Dichloroethene	7	0.41	5	0.79 J	0.58 J	0.74 J	0.59 J
1,2-Dichloroethane	5	0.3	5	1 U	1 U	1 U	0.3 U
1,2-Dichloropropane	5	0.3	5	1 U	1 U	1 U	0.3 U
1,3-Dichlorobenzene	86.7327	0.3	5	1 U	1 U	1 U	0.3 U
2-Butanone	7064.52	3	50	10 U	10 U	10 U	3 U
4-Methyl-2-Pentanone	1990.91	3	50	10 U	10 U	10 U	3 U
Acetone	21782.9	2	20	10 U	10 U	10 U	6.4 U
Benzene	5	0.068	5	1 U	1 U	1 U	0.3 U
Bromodichloromethane	0.1173	0.13	5	**1 U [f]**	**1 U [f]**	**1 U [f]**	**0.3 U [f]**
Bromoform	8.51032	0.3	5	1 U	1 U	1 U	0.3 U
Bromomethane	8.66102	0.3	10	1 U	1 U	1 U	0.3 U
Carbon Disulfide	1042.86	0.3	5	1 U	1 U	1 U	0.3 U
Carbon Tetrachloride	5	1.3	3.6	1.6	1.4	1.7	1.6

TABLE 3-8
ANALYTICAL RESULTS FOR WELL J2D2-R2
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
VOLATILES (reported in ug/L)							
Chlorobenzene	100	0.3	5	1 U	1 U	1 U	0.3 U
Chloroform	0.19279	41	140	**56**	**48**	**56**	**54**
Chloromethane	2.7037	0.33	10	1 U	1 U	1 U	0.33 U
cis-1,2-Dichloroethene	70	0.17	5	1 U	1 U	1 U	0.3 U
Dibromochloromethane	0.14712	0.3	5	**1 U [f]**	**1 U [f]**	**1 U [f]**	**0.3 U [f]**
Ethylbenzene	700	0.3	5	1 U	1 U	1 U	0.3 U
Methylene Chloride	5	0.32	5	1 U	1 U	1 U	0.32 U
Naphthalene	0.14314	0.42	1	**1 U [f]**	**1 U [f]**	**1 U [f]**	**0.42 U [f]**
Styrene	100	0.3	5	1 U	1 U	1 U	0.3 U
Tetrachloroethene	5	5	170	**100**	**79**	**84**	**77**
Toluene	1000	0.17	5	1 U	1 U	1 U	0.3 U
Total Trihalomethanes [e]	80	41	145	56	48	56	54
Trans-1,2-Dichloroethene	100	0.3	5	1 U	1 U	1 U	0.3 U
Trichloroethene	5	6.4	18	**7.7**	**6.9**	**7.4**	**6.8**
Trichlorofluoromethane	1288.24	0.3	5	1 U	1 U	1 U	0.3 U
Vinyl Chloride	2	0.3	10	1 U	1 U	1 U	0.3 U
Xylene (Total)	10000	0.6	10	2 U	2 U	2 U	0.6 U

TABLE 3-8
ANALYTICAL RESULTS FOR WELL J2D2-R2
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012

Notes:

a NDEP BCL are reported in the same unit as analytical group. Source of NDEP BCL's are from May 2012 update. MCL applied where no BCL exists.
b Bolded results exceed the associated screening level.
c MCL for Adjusted Gross Alpha (Total) was calculated using the following equation
Adjusted Gross Alpha (Total) MCL = Alpha Total - (Uranium 234 + Uranium 235 + Uranium 238)
d MCL for Radium was calculated using the following equation: Radium MCL = Radium 226 + Radium 228
e Total Trihalomethanes were calculated using the following equation:
Total Trihalomethanes = Bromodichloromethane + Bromoform + Chloroform + Dibromochloromethane
f Reporting limit exceeds the screening level due to analytical limitations or sample dilution.

Qualifiers:

J Estimated value
U Analyte not detected; the reporting limit is reported in the table
R Rejected data point

+ Biased high
- Biased low
µg/L Microgram per liter
MCL Maximum contaminant level
MDC Minimum detectable concentration
mg/L Milligram per liter
NA Not anaylzed; or not calculated if components are not detected
pCi/L Picocurie per liter
QTR Quarter
SL Screening level

TABLE 3-9
ANALYTICAL RESULTS FOR WELL J2D3-R
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
ALKALINITY (reported in mg/L)							
Bicarbonate Alkalinity		100	130	NA	110	NA	NA
ANIONS (reported in mg/L)							
Chloride	4	870	1300	NA	870	**NA**	NA
Nitrate	10	11	15	NA	11	**NA**	NA
Perchlorate	0.018	1.2	1.9	NA	1.2	**NA**	NA
Sulfate	250	2100	2800	NA	2100	**NA**	NA
GENERAL							
Fluoride	4	0.81	1.5	NA	0.97	NA	NA
Nitrite	1	0.5	1	NA	0.5 U	NA	NA
Total Phosphorus		0.05	0.05	0.05 U	0.05 U	NA	NA
RADIONUCLIDES (reported in pCi/L)							
Alpha (Total)		2.03	37	NA	NA	NA	NA
Adjusted Gross Alpha (Total) MCL [c]	15	-39.48	-1.34	NA	NA	NA	NA
Beta (Total)	50	0.757	39.2	NA	NA	NA	NA
Uranium 238		15.9	17.6	NA	NA	NA	NA
Uranium 234		20.9	23.9	NA	NA	NA	NA
Thorium 230	0.042	-0.0709	0.0538	NA	NA	NA	NA
Radium 226	5	0.282	0.983	NA	NA	NA	NA
Radon 222	300	76	3590	103 ± 26.1	133 ± 28.9	NA	NA
Lead 214		-0.931	498	NA	NA	NA	NA
Bismuth 214		-4.8	404	NA	NA	NA	NA
Lead 210		0.573	1.12	NA	NA	NA	NA
Thorium 232	0.14	-0.0158	0.0122	NA	NA	NA	NA
Radium 228	5	0.248	1.35	NA	NA	NA	NA
Radium MCL [d]	5	0.59	1.82	NA	NA	NA	NA
Actinium-228		-2.33	17.6	NA	NA	NA	NA
Thorium 228	0.11	-0.0106	0.121	NA	NA	NA	NA
Lead 212		-2.42	9.67	NA	NA	NA	NA
Bismuth 212		-8.8	69.8	NA	NA	NA	NA
Thallium 208		-2.29	6.28	NA	NA	NA	NA

TABLE 3-9
ANALYTICAL RESULTS FOR WELL J2D3-R
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
RADIONUCLIDES (reported in pCi/L)							
Potassium 40		-2.13	322	NA	NA	NA	NA
Uranium 235		0.635	1.37	NA	NA	NA	NA
Polonium-210		0.409	0.409	NA	NA	NA	NA
Protactinium-234		-239	506	NA	NA	NA	NA
Radium-224		-1.1	9.67	NA	NA	NA	NA
Thorium-227		-23.4	11	NA	NA	NA	NA
Thorium-234		-16.2	109	NA	NA	NA	NA
SOLIDS (reported in mg/L)							
Total Dissolved Solids	1900	4800	6400	NA	4800	**NA**	NA
TOTAL METAL (reported in ug/L)							
Aluminum	50	26	640	500 U [f]	**450**	**NA**	NA
Antimony	6	20	100	100 U [f]	**20 U [f]**	**NA**	NA
Arsenic	10	29	63	59	**63**	**NA**	NA
Barium	2000	22	36	22 J-	28 J	NA	NA
Beryllium	4	0.22	10	10 U [f]	**2 U**	NA	NA
Cadmium	5	0.74	25	25 U [f]	**5 U**	NA	NA
Calcium		470000	630000	470000	470000	NA	NA
Chromium	100	29	47	29 U	31	NA	NA
Chromium VI	100	20	45	NA	45	NA	NA
Cobalt	10.95	1.5	50	50 U [f]	**10 U**	NA	NA
Copper	1300	10	50	50 U	10 U	NA	NA
Iron	300	11	530	500 U [f]	**310**	**NA**	NA
Lead	15	2.9	15	15 U	3 U	NA	NA
Lithium	73	220	300	220 J+	**260**	**NA**	NA
Magnesium	206955	210000	280000	230000	**210000**	**NA**	NA
Manganese	20	0.72	90	35 J-	**59**	**NA**	NA
Mercury	2	0.0088	0.2	0.012 J-	0.02 J	NA	NA
Molybdenum	182.5	43	49	43 J-	49	NA	NA
Nickel	730	0.83	100	100 U	3.9 J	NA	NA

TABLE 3-9
ANALYTICAL RESULTS FOR WELL J2D3-R
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
TOTAL METAL (reported in ug/L)							
Potassium		13000	19000	13000	15000	NA	NA
Selenium	50	5.2	25	25 U	9.8	NA	NA
Silicon		28000	30000	30000	29000	NA	NA
Silver	100	0.61	50	50 U	10 U	NA	NA
Sodium		560000	690000	680000	660000	NA	NA
Thallium	2	0.018	200	0.04 U	0.03 U	NA	NA
Tin	21900	6.2	250	250 U	50 U	NA	NA
Titanium	146000	3.2	100	100 U	16 J	NA	NA
Uranium	30	46	57	47	**46**	**NA**	NA
Vanadium	182.5	21	32	32 U	30	NA	NA
Zinc	10950	1.6	20	6.5 J-	3 J	NA	NA
Zirconium		7.6	20	7.6 U	20 U	NA	NA
VOLATILES (reported in ug/L)							
1,1,1-Trichloroethane	200	1	1	1 U	1 U	NA	NA
1,1,2-Trichloroethane	5	1	1	1 U	1 U	NA	NA
1,1-Dichloroethane	2.41809	0.18	1	1 U	1 U	NA	NA
1,1-Dichloroethene	7	0.51	2.6	1 U	1 U	NA	NA
1,2-Dichloroethane	5	1	1	1 U	1 U	NA	NA
1,2-Dichloropropane	5	1	1	1 U	1 U	NA	NA
1,3-Dichlorobenzene	86.7327	1	1	1 U	1 U	NA	NA
2-Butanone	7064.52	10	10	10 U	10 U	NA	NA
4-Methyl-2-Pentanone	1990.91	10	10	10 U	10 U	NA	NA
Acetone	21782.9	10	10	10 RU	10 U	NA	NA
Benzene	5	1	1	1 U	1 U	NA	NA
Bromodichloromethane	0.1173	1	1	1 U [f]	**1 U [f]**	**NA**	NA
Bromoform	8.51032	1	1	1 U	1 U	NA	NA
Bromomethane	8.66102	1	1	1 U	1 U	NA	NA
Carbon Disulfide	1042.86	1	1	1 U	1 U	NA	NA
Carbon Tetrachloride	5	0.35	1	0.54 J	0.72 J	NA	NA

TABLE 3-9
ANALYTICAL RESULTS FOR WELL J2D3-R
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
VOLATILES (reported in ug/L)							
Chlorobenzene	100	1	1	1 U	1 U	NA	NA
Chloroform	0.19279	8.6	25	11	**12**	**NA**	NA
Chloromethane	2.7037	1	1	1 U	1 U	NA	NA
cis-1,2-Dichloroethene	70	1	1	1 U	1 U	NA	NA
Dibromochloromethane	0.14712	1	1	1 U [f]	**1 U** [f]	**NA**	NA
Ethylbenzene	700	1	1	1 U	1 U	NA	NA
Methylene Chloride	5	1	1	1 U	1 U	NA	NA
Naphthalene	0.14314	1	1	1 U [f]	**1 U** [f]	**NA**	NA
Styrene	100	1	1	1 U	1 U	NA	NA
Tetrachloroethene	5	5	20	5.8	**6.1**	**NA**	NA
Toluene	1000	0.31	1	1 U	1 U	NA	NA
Total Trihalomethanes [e]	80	8.6	27	11	12	NA	NA
Trans-1,2-Dichloroethene	100	1	1	1 U	1 U	NA	NA
Trichloroethene	5	0.35	1	0.53 J	0.53 J	NA	NA
Trichlorofluoromethane	1288.24	1	1	1 U	1 U	NA	NA
Vinyl Chloride	2	1	1	1 U	1 U	NA	NA
Xylene (Total)	10000	2	2	2 U	2 U	NA	NA

TABLE 3-9
ANALYTICAL RESULTS FOR WELL J2D3-R
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012

Notes:

a NDEP BCL are reported in the same unit as analytical group. Source of NDEP BCL's are from May 2012 update. MCL applied where no BCL exists.
b Bolded results exceed the associated screening level.
c MCL for Adjusted Gross Alpha (Total) was calculated using the following equation
Adjusted Gross Alpha (Total) MCL = Alpha Total - (Uranium 234 + Uranium 235 + Uranium 238)
d MCL for Radium was calculated using the following equation: Radium MCL = Radium 226 + Radium 228
e Total Trihalomethanes were calculated using the following equation:
Total Trihalomethanes = Bromodichloromethane + Bromoform + Chloroform + Dibromochloromethane
f Reporting limit exceeds the screening level due to analytical limitations or sample dilution.

Qualifiers:

J Estimated value
U Analyte not detected; the reporting limit is reported in the table
R Rejected data point

+ Biased high
- Biased low
µg/L Microgram per liter
MCL Maximum contaminant level
MDC Minimum detectable concentration
mg/L Milligram per liter
NA Not anaylzed; or not calculated if components are not detected
pCi/L Picocurie per liter
QTR Quarter
SL Screening level

TABLE 3-10
ANALYTICAL RESULTS FOR WELL J2D4
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
ALKALINITY (reported in mg/L)							
Bicarbonate Alkalinity		99	480	110	110	NA	100 J
ANIONS (reported in mg/L)							
Chloride	4	184	6300	**4200**	**3800**	**3900 J**	**3400 J**
Nitrate	10	13.1	54	**37**	**32**	**28 J**	**32 J**
Perchlorate	0.018	2.3	3.7	**3.4**	**3.2**	**3.1 J**	**3.7 J**
Sulfate	250	1700	4020	**2100**	**1900**	**2000 J**	**1700 J**
GENERAL							
Fluoride	4	0.29	4.5	2 U	1.6	2 UJ	1.5 J
Nitrite	1	1	2	**2 U [f]**	**1 UJ-**	2 U [f]	**1 U**
Total Phosphorus		0.05	0.68	0.064	0.68	0.05 U	0.05 U
RADIONUCLIDES (reported in pCi/L)							
Alpha (Total)		6.02	164	26.2 ± 12.7	12 ± 9.97 U	6.02 ± 12.1 U	20.5 ± 9.78
Adjusted Gross Alpha (Total) MCL [c]	15	-53.43	117.71	-5.3	-25.4	-23.5	-5.1
Beta (Total)	50	6.02	94	20.2 ± 14.4 U	14.1 ± 14.2 U	49.3 ± 17.3	22.6 ± 12.7
Uranium 238		9.5	59	13.2 ± 2.26	10.3 ± 1.85	9.5 ± 1.8	10.7 ± 2.37
Uranium 234		13.4	84	17.8 ± 2.99	14.5 ± 2.55	13.4 ± 2.47	14.5 ± 3.03
Thorium 230	0.042	-0.0679	4.46	-0.0485 ± 0.0512 U	0.114 ± 0.0758 U [f]	**-0.0537 ± 0.0611 U**	-0.06 ± 0.0573 U
Radium 226	5	0.0899	4	0.0899 ± 0.509 U	0.39 ± 0.279 J	0.409 ± 0.266	0.377 ± 0.236 J
Radon 222	300	1280	2390	**1910 ± 223**	**1600 ± 189**	**2160 ± 253**	**1890 ± 221**
Lead 214		-39	215	-0.0981 ± 12.3 UJ-	7.87 ± 10.1 UJ-	4.65 ± 8.4 UJ-	215 ± 27.9 J-
Bismuth 214		-13	202	-2.9 ± 11.6 UJ-	12.4 ± 13 UJ-	10.2 ± 9.33 UJ-	202 ± 26.9 J-
Lead 210		0.12	670	NA	NA	NA	NA
Thorium 232	0.14	-0.00424	0.85	0.0101 ± 0.0167 U	-0.000777 ± 0.0198 U	-0.00424 ± 0.0234 U	0.00965 ± 0.0322 U
Radium 228	5	-1	1.94	0.651 ± 0.444 U	0.349 ± 0.367 U	1.29 ± 0.489 J	0.53 ± 0.318 U
Radium MCL [d]	5	0.38	4.21	NA	0.39	1.7	0.38
Actinium-228		-35	27.2	18.1 ± 9.29 J+	-11.2 ± 26.5 U	9.3 ± 10.2 U	-6.4 ± 27.4 U
Thorium 228	0.11	-0.0741	1.24	0.0441 ± 0.0696 U	-0.0741 ± 0.0672 U	0.00579 ± 0.0845 U	0.0313 ± 0.0888 U
Lead 212		-34	15.4	-0.793 ± 7.01 U	-3.51 ± 8.09 U	-0.846 ± 6.91 U	2.87 ± 6.46 U
Bismuth 212		-27	110	28.9 ± 32.7 U	60.1 ± 39.6 U	-5.07 ± 36 U	-10.1 ± 39.9 U
Thallium 208		-6	6.71	1.95 ± 5.08 U	5.24 ± 2.73 J	1.21 ± 5.69 U	1.9 ± 7.86 U

TABLE 3-10
ANALYTICAL RESULTS FOR WELL J2D4
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
RADIONUCLIDES (reported in pCi/L)							
Potassium 40		-140	237	-8.54 ± 68.2 U	5.57 ± 80.4 U	33.7 ± 68.7 U	11.3 ± 94.7 U
Uranium 235		0.406	4.9	0.514 ± 0.201	0.58 ± 0.208	0.572 ± 0.23	0.406 ± 0.346
Polonium-210		-0.025	0.408	NA	NA	NA	NA
Protactinium-234		11.4	538	350 ± 399 U	400 ± 431 U	278 ± 426 U	240 ± 513 U
Radium-224		-3.82	3.67	-0.793 ± 7.01 U	-3.51 ± 8.09 U	-0.846 ± 6.91 U	2.87 ± 6.46 U
Thorium-227		-15.1	15.7	-6.99 ± 16 U	8.39 ± 11 U	-8.54 ± 10.7 U	13.1 ± 15.8 U
Thorium-234		-44.9	248	-44.9 ± 76.5 U	5.66 ± 52.5 U	-38.1 ± 46 U	6.22 ± 73.6 U
SOLIDS (reported in mg/L)							
Total Dissolved Solids	1900	5810	14000	**9800**	**10000**	**9800**	**9800 J**
TOTAL METAL (reported in ug/L)							
Aluminum	50	27	500	**500 U [f]**	**150 U [f]**	**130 J**	**76 U [f]**
Antimony	6	6.4	100	**100 U [f]**	**100 U [f]**	**100 U [f]**	**15 U [f]**
Arsenic	10	93.8	226	**140**	**130**	**130**	**120**
Barium	2000	17	1000	25 J-	19 J	20 J	17 J
Beryllium	4	0.12	10	**10 U [f]**	**1.6 U**	10 U [f]	**0.88 U**
Cadmium	5	0.5	25	**25 U [f]**	**25 U [f]**	**25 U [f]**	**1.6 U**
Calcium		640000	1300000	770000	700000	680000 J	690000 J
Chromium	100	87	290	**250**	**240**	**240**	**220**
Chromium VI	100	220	400	**300**	**290 J-**	**280**	**270**
Cobalt	10.95	0.71	50	**50 U [f]**	**50 U [f]**	**50 U [f]**	**2.2 U**
Copper	1300	1.5	50	50 U	50 U	50 U	4.8 U
Iron	300	1.5	26500	**500 U [f]**	**500 U [f]**	**500 U [f]**	**25 U**
Lead	15	1.2	17.6	15 U	15 U	15 U	6.4 U
Lithium	73	560	770	**560 J+**	**580 J**	**580 J+**	**590 J**
Magnesium	206955	240000	415000	**300000**	**280000**	**280000 J**	**280000 J**
Manganese	20	0.57	491	50 U [f]	**50 U [f]**	**50 U [f]**	**0.57 U**
Mercury	2	0.0085	0.31	0.2 U	0.2 U	0.0085 J	0.035 J
Molybdenum	182.5	310	880	**880**	**790**	**720**	**700**
Nickel	730	0.72	100	100 U	100 U	100 U	4.7 U

TABLE 3-10
ANALYTICAL RESULTS FOR WELL J2D4
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
TOTAL METAL (reported in ug/L)							
Potassium		29000	47000	31000	30000	30000 J	29000 J
Selenium	50	5	30.8	25 U	25 U	25 U	13 U
Silicon		38000	46000	44000	44000	45000	46000
Silver	100	2.2	50	50 U	7.6 J	50 U	5.4 U
Sodium		700000	3000000	2100000	2000000	1800000 J	1700000 J
Thallium	2	0.017	200	0.04 U	0.04 U	0.02 J	0.18 J
Tin	21900	2.8	250	250 U	250 U	250 U	14 U
Titanium	146000	1.4	100	100 U	100 U	100 U	1.4 U
Uranium	30	28	180	**39**	**32**	**28**	28
Vanadium	182.5	39	143	64	68	69	71
Zinc	10950	0.35	100	100 U	100 U	100 U	3.6 U
Zirconium		2.5	20	8.2 U	12 U	13 J	2.5 U
VOLATILES (reported in ug/L)							
1,1,1-Trichloroethane	200	0.3	25	2 U	1 U	1 U	0.3 U
1,1,2-Trichloroethane	5	0.3	25	2 U	1 U	1 U	0.3 U
1,1-Dichloroethane	2.41809	0.17	25	2 U	1 U	1 U	0.3 U
1,1-Dichloroethene	7	0.33	25	0.65 J	0.78 J	0.51 J	0.45 J
1,2-Dichloroethane	5	0.27	25	2 U	1 U	1 U	0.3 U
1,2-Dichloropropane	5	0.14	25	2 U	0.18 J	1 U	0.3 U
1,3-Dichlorobenzene	86.7327	0.3	25	2 U	1 U	1 U	0.3 U
2-Butanone	7064.52	3	250	20 U	10 U	10 U	3 U
4-Methyl-2-Pentanone	1990.91	3	250	20 U	10 U	10 U	3 U
Acetone	21782.9	3	100	20 RU	10 U	10 U	6.4 U
Benzene	5	0.3	25	2 U	1 U	1 U	0.3 U
Bromodichloromethane	0.1173	0.17	25	**2 U [f]**	**1 U [f]**	**1 U [f]**	**0.3 U [f]**
Bromoform	8.51032	0.15	25	1.7 J	1 U	0.66 J	0.3 U
Bromomethane	8.66102	0.3	50	2 U	1 U	1 U	0.3 U
Carbon Disulfide	1042.86	0.3	25	2 U	1 U	1 U	0.3 U
Carbon Tetrachloride	5	1	25	2.8	3.5	3.6	2.2

TABLE 3-10
ANALYTICAL RESULTS FOR WELL J2D4
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
VOLATILES (reported in ug/L)							
Chlorobenzene	100	0.3	25	2 U	1 U	1 U	0.3 U
Chloroform	0.19279	180	930	**600**	**480**	**620**	**450**
Chloromethane	2.7037	0.33	50	2 U	1 U	1 U	0.33 U
cis-1,2-Dichloroethene	70	0.3	25	2 U	1 U	1 U	0.3 U
Dibromochloromethane	0.14712	0.3	25	**2 U [f]**	**1 U [f]**	**1 U [f]**	**0.3 U [f]**
Ethylbenzene	700	0.3	25	2 U	1 U	1 U	0.3 U
Methylene Chloride	5	0.32	31	2 U	1 U	1 U	0.32 U
Naphthalene	0.14314	0.42	2	**2 U [f]**	**1 U [f]**	**1 U [f]**	**0.42 U [f]**
Styrene	100	0.3	25	2 U	1 U	1 U	0.3 U
Tetrachloroethene	5	2.1	24	3.9	4.1	3.1	2.1
Toluene	1000	0.3	25	2 U	1 U	1 U	0.3 U
Total Trihalomethanes [e]	80	0.23	930	**601.7**	**480**	**620.66**	**450**
Trans-1,2-Dichloroethene	100	0.3	25	2 U	1 U	1 U	0.3 U
Trichloroethene	5	0.3	25	2 U	0.35 J	0.35 J	0.3 U
Trichlorofluoromethane	1288.24	0.3	25	2 U	1 U	1 U	0.3 U
Vinyl Chloride	2	0.3	25	2 U	1 U	1 U	0.3 U
Xylene (Total)	10000	0.6	50	4 U	2 U	2 U	0.6 U

TABLE 3-10
ANALYTICAL RESULTS FOR WELL J2D4
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012

Notes:

a NDEP BCL are reported in the same unit as analytical group. Source of NDEP BCL's are from May 2012 update. MCL applied where no BCL exists.
b Bolded results exceed the associated screening level.
c MCL for Adjusted Gross Alpha (Total) was calculated using the following equation
Adjusted Gross Alpha (Total) MCL = Alpha Total - (Uranium 234 + Uranium 235 + Uranium 238)
d MCL for Radium was calculated using the following equation: Radium MCL = Radium 226 + Radium 228
e Total Trihalomethanes were calculated using the following equation:
Total Trihalomethanes = Bromodichloromethane + Bromoform + Chloroform + Dibromochloromethane
f Reporting limit exceeds the screening level due to analytical limitations or sample dilution.

Qualifiers:

J Estimated value
U Analyte not detected; the reporting limit is reported in the table
R Rejected data point

+ Biased high
- Biased low
µg/L Microgram per liter
MCL Maximum contaminant level
MDC Minimum detectable concentration
mg/L Milligram per liter
NA Not anaylzed; or not calculated if components are not detected
pCi/L Picocurie per liter
QTR Quarter
SL Screening level

TABLE 3-11
ANALYTICAL RESULTS FOR WELL J2U1
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
ALKALINITY (reported in mg/L)							
Bicarbonate Alkalinity		92	131	NA	NA	NA	NA
ANIONS (reported in mg/L)							
Chloride	4	690	1230	NA	NA	NA	NA
Nitrate	10	2	14.8	NA	NA	NA	NA
Perchlorate	0.018			NA	NA	NA	NA
Sulfate	250	2230	3140	NA	NA	NA	NA
GENERAL							
Fluoride	4			NA	NA	NA	NA
Nitrite	1			NA	NA	NA	NA
Total Phosphorus				NA	NA	NA	NA
RADIONUCLIDES (reported in pCi/L)							
Alpha (Total)		24	24	NA	NA	NA	NA
Adjusted Gross Alpha (Total) MCL [c]	15	-22.44	-22.44	NA	NA	NA	NA
Beta (Total)	50	26	26	NA	NA	NA	NA
Uranium 238		19.3	19.3	NA	NA	NA	NA
Uranium 234		25.5	25.5	NA	NA	NA	NA
Thorium 230	0.042			NA	NA	NA	NA
Radium 226	5	0.79	0.79	NA	NA	NA	NA
Radon 222	300	43.4	43.4	NA	NA	NA	NA
Lead 214				NA	NA	NA	NA
Bismuth 214				NA	NA	NA	NA
Lead 210				NA	NA	NA	NA
Thorium 232	0.14			NA	NA	NA	NA
Radium 228	5	0.33	0.33	NA	NA	NA	NA
Radium MCL [d]	5	1.12	1.12	NA	NA	NA	NA
Actinium-228				NA	NA	NA	NA
Thorium 228	0.11			NA	NA	NA	NA
Lead 212				NA	NA	NA	NA
Bismuth 212				NA	NA	NA	NA
Thallium 208				NA	NA	NA	NA

TABLE 3-11
ANALYTICAL RESULTS FOR WELL J2U1
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
RADIONUCLIDES (reported in pCi/L)							
Potassium 40				NA	NA	NA	NA
Uranium 235		1.64	1.64	NA	NA	NA	NA
Polonium-210				NA	NA	NA	NA
Protactinium-234				NA	NA	NA	NA
Radium-224				NA	NA	NA	NA
Thorium-227				NA	NA	NA	NA
Thorium-234				NA	NA	NA	NA
SOLIDS (reported in mg/L)							
Total Dissolved Solids	1900	5300	6440	NA	NA	NA	NA
TOTAL METAL (reported in ug/L)							
Aluminum	50	14	94	NA	NA	NA	NA
Antimony	6	20	40	NA	NA	NA	NA
Arsenic	10	114	148	NA	NA	NA	NA
Barium	2000	8.5	47.5	NA	NA	NA	NA
Beryllium	4	0.27	0.35	NA	NA	NA	NA
Cadmium	5	5	10	NA	NA	NA	NA
Calcium		466000	580000	NA	NA	NA	NA
Chromium	100	31	95.8	NA	NA	NA	NA
Chromium VI	100			NA	NA	NA	NA
Cobalt	10.95	10	20	NA	NA	NA	NA
Copper	1300	4.5	20	NA	NA	NA	NA
Iron	300	37	4720	NA	NA	NA	NA
Lead	15	3	9.7	NA	NA	NA	NA
Lithium	73	130	130	NA	NA	NA	NA
Magnesium	206955	170000	281000	NA	NA	NA	NA
Manganese	20	6.2	238	NA	NA	NA	NA
Mercury	2	0.0048	0.2	NA	NA	NA	NA
Molybdenum	182.5	51	51	NA	NA	NA	NA
Nickel	730	2.2	4.5	NA	NA	NA	NA

TABLE 3-11
ANALYTICAL RESULTS FOR WELL J2U1
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
TOTAL METAL (reported in ug/L)							
Potassium		14000	15000	NA	NA	NA	NA
Selenium	50	4.6	10	NA	NA	NA	NA
Silicon				NA	NA	NA	NA
Silver	100	10	20	NA	NA	NA	NA
Sodium		550000	1060000	NA	NA	NA	NA
Thallium	2	0.029	200	NA	NA	NA	NA
Tin	21900			NA	NA	NA	NA
Titanium	146000	10	10	NA	NA	NA	NA
Uranium	30	41	70	NA	NA	NA	NA
Vanadium	182.5	57	66	NA	NA	NA	NA
Zinc	10950	1.2	73	NA	NA	NA	NA
Zirconium				NA	NA	NA	NA
VOLATILES (reported in ug/L)							
1,1,1-Trichloroethane	200	1	5	NA	NA	NA	NA
1,1,2-Trichloroethane	5	1	5	NA	NA	NA	NA
1,1-Dichloroethane	2.41809	1	5	NA	NA	NA	NA
1,1-Dichloroethene	7	1	5	NA	NA	NA	NA
1,2-Dichloroethane	5	1	5	NA	NA	NA	NA
1,2-Dichloropropane	5	1	5	NA	NA	NA	NA
1,3-Dichlorobenzene	86.7327	1	5	NA	NA	NA	NA
2-Butanone	7064.52	10	13	NA	NA	NA	NA
4-Methyl-2-Pentanone	1990.91	10	20	NA	NA	NA	NA
Acetone	21782.9	10	20	NA	NA	NA	NA
Benzene	5	1	5	NA	NA	NA	NA
Bromodichloromethane	0.1173	1	5	NA	NA	NA	NA
Bromoform	8.51032	1	5	NA	NA	NA	NA
Bromomethane	8.66102	1	10	NA	NA	NA	NA
Carbon Disulfide	1042.86	1	5	NA	NA	NA	NA
Carbon Tetrachloride	5	0.27	5	NA	NA	NA	NA

TABLE 3-11
ANALYTICAL RESULTS FOR WELL J2U1
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
VOLATILES (reported in ug/L)							
Chlorobenzene	100	1	5	NA	NA	NA	NA
Chloroform	0.19279	5.5	7.4	NA	NA	NA	NA
Chloromethane	2.7037	1	10	NA	NA	NA	NA
cis-1,2-Dichloroethene	70	1	1	NA	NA	NA	NA
Dibromochloromethane	0.14712	1	5	NA	NA	NA	NA
Ethylbenzene	700	1	5	NA	NA	NA	NA
Methylene Chloride	5	1	5	NA	NA	NA	NA
Naphthalene	0.14314			NA	NA	NA	NA
Styrene	100	1	5	NA	NA	NA	NA
Tetrachloroethene	5	0.97	1.9	NA	NA	NA	NA
Toluene	1000	0.44	5	NA	NA	NA	NA
Total Trihalomethanes [e]	80	5.5	22.4	NA	NA	NA	NA
Trans-1,2-Dichloroethene	100	1	1	NA	NA	NA	NA
Trichloroethene	5	1	5	NA	NA	NA	NA
Trichlorofluoromethane	1288.24	1	1	NA	NA	NA	NA
Vinyl Chloride	2	1	10	NA	NA	NA	NA
Xylene (Total)	10000	2	5	NA	NA	NA	NA

TABLE 3-11
ANALYTICAL RESULTS FOR WELL J2U1
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012

Notes:

a NDEP BCL are reported in the same unit as analytical group. Source of NDEP BCL's are from May 2012 update. MCL applied where no BCL exists.
b Bolded results exceed the associated screening level.
c MCL for Adjusted Gross Alpha (Total) was calculated using the following equation
Adjusted Gross Alpha (Total) MCL = Alpha Total - (Uranium 234 + Uranium 235 + Uranium 238)
d MCL for Radium was calculated using the following equation: Radium MCL = Radium 226 + Radium 228
e Total Trihalomethanes were calculated using the following equation:
Total Trihalomethanes = Bromodichloromethane + Bromoform + Chloroform + Dibromochloromethane
f Reporting limit exceeds the screening level due to analytical limitations or sample dilution.

Qualifiers:

J Estimated value
U Analyte not detected; the reporting limit is reported in the table
R Rejected data point

+ Biased high
- Biased low
µg/L Microgram per liter
MCL Maximum contaminant level
MDC Minimum detectable concentration
mg/L Milligram per liter
NA Not anaylzed; or not calculated if components are not detected
pCi/L Picocurie per liter
QTR Quarter
SL Screening level

TABLE 3-12
ANALYTICAL RESULTS FOR WELL J2U2
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
ALKALINITY (reported in mg/L)							
Bicarbonate Alkalinity		82	140	130	130	130	130
ANIONS (reported in mg/L)							
Chloride	4	204	1770	**1200**	**1100**	**1100**	**1000**
Nitrate	10	7.8	85.5	**46**	**39**	**39**	**39**
Perchlorate	0.018	0.52	1	**0.62**	**0.52**	**0.55**	**0.59**
Sulfate	250	1010	2530	**1800**	**1700**	**1700**	**1600**
GENERAL							
Fluoride	4	0.62	1.3	0.83	1.3	1 U	0.81
Nitrite	1	0.5	1	0.5 U	1 U	1 U	0.5 U
Total Phosphorus		0.05	0.2	0.05 U	0.2 J+	0.05 U	0.05 U
RADIONUCLIDES (reported in pCi/L)							
Alpha (Total)		35.9	164	58.5 ± 11.3	52.7 ± 13.3	44.1 ± 9.97 J	35.9 ± 10.7
Adjusted Gross Alpha (Total) MCL [c]	15	-93.92	69	-57.1	-61.3	-73.5	-66
Beta (Total)	50	10.3	62.2	26.2 ± 8.22	14.3 ± 13 U	13.8 ± 7.25	10.3 ± 13.9 U
Uranium 238		20.3	63	47.2 ± 7.6	46.8 ± 7.81	47.3 ± 8.35	41.2 ± 7
Uranium 234		28.7	79	66.2 ± 10.6	64.9 ± 10.8	68.1 ± 11.9	58.5 ± 9.89
Thorium 230	0.042	-0.0591	1	-0.0267 ± 0.0512 U	-0.0591 ± 0.0504 U	-0.0389 ± 0.0693 U	-0.039 ± 0.0576 U
Radium 226	5	-0.155	1.53	0.0583 ± 0.309 U	0.222 ± 0.254 U	0.397 ± 0.261	0.65 ± 0.331 J
Radon 222	300	561	1370	**940 ± 114**	**1110 ± 132**	**1350 ± 159**	**1000 ± 121**
Lead 214		-24	180	-1.56 ± 9.64 UJ-	1.99 ± 11 UJ-	8.96 ± 4.99 J-	180 ± 24.1 J
Bismuth 214		-20	172	5.46 ± 10.2 UJ-	2.55 ± 12.1 UJ-	-1.09 ± 12.5 UJ-	172 ± 33.9 J
Lead 210		-90	205	NA	NA	NA	NA
Thorium 232	0.14	-0.036	0.22	0.0105 ± 0.0146	0.0228 ± 0.0248 U	0.012 ± 0.0372 U	0.0148 ± 0.0324 U
Radium 228	5	0.19	1.19	0.823 ± 0.527 U	0.572 ± 0.364 U	0.898 ± 0.391 J	0.555 ± 0.353 U
Radium MCL [d]	5	0.4	2.34	NA	NA	1.3	0.65
Actinium-228		-25	21	17.8 ± 11.2 J+	-2.83 ± 21.2 U	2.16 ± 29.1 U	15.8 ± 12.6 U
Thorium 228	0.11	-0.0507	0.38	-0.0507 ± 0.0601 U	-0.0173 ± 0.0491 U	-0.012 ± 0.0875 U	0.0545 ± 0.0757 U
Lead 212		-34	9	-2.55 ± 6.79 U	2.27 ± 7.24 U	1.73 ± 7.76 U	3.99 ± 8 U
Bismuth 212		-60	44.8	33.5 ± 38.5 U	8.82 ± 41.4 U	30 ± 40.4 U	41.2 ± 44.6 U
Thallium 208		-10.6	4.97	-0.236 ± 5.21 U	2.72 ± 1.9 U	0.067 ± 6.39 U	0.481 ± 5.37 U

TABLE 3-12
ANALYTICAL RESULTS FOR WELL J2U2
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
RADIONUCLIDES (reported in pCi/L)							
Potassium 40		-59	110	-22.2 ± 76.9 U	32.8 ± 73.5 U	-26.3 ± 83.3 U	-57.3 ± 80.8 U
Uranium 235		0.9	13.6	2.19 ± 0.501	2.33 ± 0.522	2.25 ± 0.576	2.17 ± 0.508
Polonium-210		0.172	0.248	NA	NA	NA	NA
Protactinium-234		-253	819	142 ± 449 U	-113 ± 843 U	732 ± 453 J	-253 ± 552 U
Radium-224		-2.55	6.41	-2.55 ± 6.79 U	2.27 ± 7.24 U	1.73 ± 7.76 U	3.99 ± 8 U
Thorium-227		-21.3	14.4	-5.78 ± 11.3 U	-11.3 ± 19.1 U	-21.3 ± 20.9 U	2.2 ± 21.9 U
Thorium-234		-28.7	92.7	43.6 ± 36.5 U	92.7 ± 89.2 U	5.56 ± 52 U	27.3 ± 91.6 U
SOLIDS (reported in mg/L)							
Total Dissolved Solids	1900	2000	6000	**4700**	**4500**	**4800**	**4900**
TOTAL METAL (reported in ug/L)							
Aluminum	50	29	530	**500 U [f]**	**100 U [f]**	**96 J**	**76 U [f]**
Antimony	6	7.6	100	**100 U [f]**	**20 U [f]**	**100 U [f]**	**15 U [f]**
Arsenic	10	100	171	**110**	**120**	**110**	**110**
Barium	2000	12	68.1	18 J-	19 J	16 J	16 J
Beryllium	4	0.081	10	10 U [f]	**2 U**	10 U [f]	**0.88 U**
Cadmium	5	0.33	25	25 U [f]	**5 U**	25 U [f]	**1.6 U**
Calcium		204000	715000	590000	540000	510000 J	550000
Chromium	100	11.2	100	56	50	60	100
Chromium VI	100	54	120	65	68	78	120
Cobalt	10.95	2.2	50	50 U [f]	**2.6 J**	50 U [f]	**2.2 U**
Copper	1300	0.96	50	50 U	10 U	50 U	4.8 U
Iron	300	25	4920	500 U [f]	**100 U**	500 U [f]	**25 U**
Lead	15	1	15	15 U	3 U	15 U	6.4 U
Lithium	73	340	640	**440 J+**	**520**	**430 J+**	**470 J**
Magnesium	206955	101000	350000	**300000**	**270000**	**280000**	**290000**
Manganese	20	0.35	116	50 U [f]	**10 U**	50 U [f]	**16 J**
Mercury	2	0.0064	0.2	0.2 U	0.2 U	0.018 J	0.041 J
Molybdenum	182.5	21	35	29 J-	31	21 J	30 J
Nickel	730	1.5	100	100 U	2.7 J	100 U	4.7 U

TABLE 3-12
ANALYTICAL RESULTS FOR WELL J2U2
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
TOTAL METAL (reported in ug/L)							
Potassium		13000	23000	15000	18000	13000	15000 J+
Selenium	50	1.3	25	25 U	6.9	25 U	13 U
Silicon		40000	46000	43000	40000	42000	46000
Silver	100	0.64	50	50 U	10 U	50 U	5.4 U
Sodium		5000	470000	430000	410000	390000	450000
Thallium	2	0.04	45	0.1 U	0.08 U	0.07 J	0.09 J
Tin	21900	4.1	250	250 U	50 U	250 U	14 U
Titanium	146000	1.4	100	100 U	20 U	100 U	1.4 U
Uranium	30	29.8	254	**150**	**140**	**130**	**120**
Vanadium	182.5	25	145	30 U	28	28 J	30 J
Zinc	10950	0.87	100	100 U	20 U	100 U	3.6 U
Zirconium		2.5	20	6.4 U	20 U	7.5 J	2.5 U
VOLATILES (reported in ug/L)							
1,1,1-Trichloroethane	200	0.3	5	1 U	1 U	1 U	0.3 U
1,1,2-Trichloroethane	5	0.3	5	1 U	1 U	1 U	0.3 U
1,1-Dichloroethane	2.41809	0.21	5	0.21 J	1 U	1 U	0.3 U
1,1-Dichloroethene	7	0.24	5	0.51 J	0.46 J	0.39 J	0.3 U
1,2-Dichloroethane	5	0.3	5	1 U	1 U	1 U	0.3 U
1,2-Dichloropropane	5	0.3	5	1 U	1 U	1 U	0.3 U
1,3-Dichlorobenzene	86.7327	0.3	5	1 U	1 U	1 U	0.3 U
2-Butanone	7064.52	3	50	10 U	10 U	10 U	3 U
4-Methyl-2-Pentanone	1990.91	3	50	10 U	10 U	10 U	3 U
Acetone	21782.9	3.6	20	10 RU	10 U	10 U	6.4 U
Benzene	5	0.074	5	1 U	1 U	1 U	0.3 U
Bromodichloromethane	0.1173	0.2	5	**0.25 J**	**1 U [f]**	**1 U [f]**	**0.3 U [f]**
Bromoform	8.51032	0.3	5	1 U	1 U	1 U	0.3 U
Bromomethane	8.66102	0.3	10	1 U	1 U	1 U	0.3 U
Carbon Disulfide	1042.86	0.3	5	1 U	1 U	1 U	0.3 U
Carbon Tetrachloride	5	0.49	5.8	3.6	3.6	4	3.2

TABLE 3-12
ANALYTICAL RESULTS FOR WELL J2U2
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
VOLATILES (reported in ug/L)							
Chlorobenzene	100	0.3	5	1 U	1 U	1 U	0.3 U
Chloroform	0.19279	17	160	**92**	**63**	**71**	**62**
Chloromethane	2.7037	0.33	10	1 U	1 U	1 U	0.33 U
cis-1,2-Dichloroethene	70	0.23	5	1 U	1 U	1 U	0.3 U
Dibromochloromethane	0.14712	0.18	5	**1 U [f]**	**1 U [f]**	**1 U [f]**	**0.3 U [f]**
Ethylbenzene	700	0.3	5	1 U	1 U	1 U	0.3 U
Methylene Chloride	5	0.22	5.3	1 U	1 U	1 U	0.32 U
Naphthalene	0.14314	0.42	1	**1 U [f]**	**1 U [f]**	**1 U [f]**	**0.42 U [f]**
Styrene	100	0.3	5	1 U	1 U	1 U	0.3 U
Tetrachloroethene	5	29	120	**75**	**47**	**55**	**47**
Toluene	1000	0.11	5	1 U	1 U	1 U	0.3 U
Total Trihalomethanes [e]	80	0.18	160	**92.25**	**63**	71	62
Trans-1,2-Dichloroethene	100	0.3	5	1 U	1 U	1 U	0.3 U
Trichloroethene	5	3.5	21	**14**	**12**	**12**	**11**
Trichlorofluoromethane	1288.24	0.3	5	1 U	1 U	1 U	0.3 U
Vinyl Chloride	2	0.3	10	1 U	1 U	1 U	0.3 U
Xylene (Total)	10000	0.6	10	2 U	2 U	2 U	0.6 U

TABLE 3-12
ANALYTICAL RESULTS FOR WELL J2U2
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012

Notes:

a NDEP BCL are reported in the same unit as analytical group. Source of NDEP BCL's are from May 2012 update. MCL applied where no BCL exists.
b Bolded results exceed the associated screening level.
c MCL for Adjusted Gross Alpha (Total) was calculated using the following equation
Adjusted Gross Alpha (Total) MCL = Alpha Total - (Uranium 234 + Uranium 235 + Uranium 238)
d MCL for Radium was calculated using the following equation: Radium MCL = Radium 226 + Radium 228
e Total Trihalomethanes were calculated using the following equation:
Total Trihalomethanes = Bromodichloromethane + Bromoform + Chloroform + Dibromochloromethane
f Reporting limit exceeds the screening level due to analytical limitations or sample dilution.

Qualifiers:

J Estimated value
U Analyte not detected; the reporting limit is reported in the table
R Rejected data point

+ Biased high
- Biased low
µg/L Microgram per liter
MCL Maximum contaminant level
MDC Minimum detectable concentration
mg/L Milligram per liter
NA Not anaylzed; or not calculated if components are not detected
pCi/L Picocurie per liter
QTR Quarter
SL Screening level

TABLE 3-13
ANALYTICAL RESULTS FOR WELL TIMETMW-1
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
ALKALINITY (reported in mg/L)							
Bicarbonate Alkalinity				NA	NA	NA	NA
ANIONS (reported in mg/L)							
Chloride	4			NA	NA	NA	NA
Nitrate	10			NA	NA	NA	NA
Perchlorate	0.018			NA	NA	NA	NA
Sulfate	250			NA	NA	NA	NA
GENERAL							
Fluoride	4			NA	NA	NA	NA
Nitrite	1			NA	NA	NA	NA
Total Phosphorus				NA	NA	NA	NA
RADIONUCLIDES (reported in pCi/L)							
Alpha (Total)				NA	NA	NA	NA
Adjusted Gross Alpha (Total) MCL [c]	15	0	0	NA	NA	NA	NA
Beta (Total)	50			NA	NA	NA	NA
Uranium 238				NA	NA	NA	NA
Uranium 234				NA	NA	NA	NA
Thorium 230	0.042			NA	NA	NA	NA
Radium 226	5			NA	NA	NA	NA
Radon 222	300			NA	NA	NA	NA
Lead 214				NA	NA	NA	NA
Bismuth 214				NA	NA	NA	NA
Lead 210				NA	NA	NA	NA
Thorium 232	0.14			NA	NA	NA	NA
Radium 228	5			NA	NA	NA	NA
Radium MCL [d]	5	0	0	NA	NA	NA	NA
Actinium-228				NA	NA	NA	NA
Thorium 228	0.11			NA	NA	NA	NA
Lead 212				NA	NA	NA	NA
Bismuth 212				NA	NA	NA	NA
Thallium 208				NA	NA	NA	NA

WELL ID: TIMETMW-1

TABLE 3-13
ANALYTICAL RESULTS FOR WELL TIMETMW-1
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
RADIONUCLIDES (reported in pCi/L)							
Potassium 40				NA	NA	NA	NA
Uranium 235				NA	NA	NA	NA
Polonium-210				NA	NA	NA	NA
Protactinium-234				NA	NA	NA	NA
Radium-224				NA	NA	NA	NA
Thorium-227				NA	NA	NA	NA
Thorium-234				NA	NA	NA	NA
SOLIDS (reported in mg/L)							
Total Dissolved Solids	1900			NA	NA	NA	NA
TOTAL METAL (reported in ug/L)							
Aluminum	50			NA	NA	NA	NA
Antimony	6			NA	NA	NA	NA
Arsenic	10			NA	NA	NA	NA
Barium	2000			NA	NA	NA	NA
Beryllium	4			NA	NA	NA	NA
Cadmium	5			NA	NA	NA	NA
Calcium				NA	NA	NA	NA
Chromium	100			NA	NA	NA	NA
Chromium VI	100			NA	NA	NA	NA
Cobalt	10.95			NA	NA	NA	NA
Copper	1300			NA	NA	NA	NA
Iron	300			NA	NA	NA	NA
Lead	15			NA	NA	NA	NA
Lithium	73			NA	NA	NA	NA
Magnesium	206955			NA	NA	NA	NA
Manganese	20			NA	NA	NA	NA
Mercury	2			NA	NA	NA	NA
Molybdenum	182.5			NA	NA	NA	NA
Nickel	730			NA	NA	NA	NA

TABLE 3-13
ANALYTICAL RESULTS FOR WELL TIMETMW-1
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
TOTAL METAL (reported in ug/L)							
Potassium				NA	NA	NA	NA
Selenium	50			NA	NA	NA	NA
Silicon				NA	NA	NA	NA
Silver	100			NA	NA	NA	NA
Sodium				NA	NA	NA	NA
Thallium	2			NA	NA	NA	NA
Tin	21900			NA	NA	NA	NA
Titanium	146000			NA	NA	NA	NA
Uranium	30			NA	NA	NA	NA
Vanadium	182.5			NA	NA	NA	NA
Zinc	10950			NA	NA	NA	NA
Zirconium				NA	NA	NA	NA
VOLATILES (reported in ug/L)							
1,1,1-Trichloroethane	200	0.3	1	1 U	1 U	1 U	0.3 U
1,1,2-Trichloroethane	5	0.3	1	1 U	1 U	1 U	0.3 U
1,1-Dichloroethane	2.41809	0.3	1	1 U	1 U	1 U	0.3 U
1,1-Dichloroethene	7	0.3	1	1 U	1 U	1 U	0.3 U
1,2-Dichloroethane	5	0.3	1	1 U	1 U	1 U	0.3 U
1,2-Dichloropropane	5	0.3	1	1 U	1 U	1 U	0.3 U
1,3-Dichlorobenzene	86.7327	0.3	1	1 U	1 U	1 U	0.3 U
2-Butanone	7064.52	3	10	10 U	10 U	10 U	3 U
4-Methyl-2-Pentanone	1990.91	3	10	10 U	10 U	10 U	3 U
Acetone	21782.9	6.4	10	10 RU	10 U	10 U	6.4 U
Benzene	5	0.3	1	1 U	1 U	1 U	0.3 U
Bromodichloromethane	0.1173	0.3	1	**1 U [f]**	**1 U [f]**	**1 U [f]**	**0.3 U [f]**
Bromoform	8.51032	0.3	1	1 U	1 U	1 U	0.3 U
Bromomethane	8.66102	0.3	1	1 U	1 U	1 U	0.3 U
Carbon Disulfide	1042.86	0.3	1	1 U	1 U	1 U	0.3 U
Carbon Tetrachloride	5	2.6	4.4	4.1	4.1	3.4	2.6

TABLE 3-13
ANALYTICAL RESULTS FOR WELL TIMETMW-1
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
VOLATILES (reported in ug/L)							
Chlorobenzene	100	0.3	1	1 U	1 U	1 U	0.3 U
Chloroform	0.19279	42	56	**53**	**52**	**56**	**42**
Chloromethane	2.7037	0.33	1	1 U	1 U	1 U	0.33 U
cis-1,2-Dichloroethene	70	0.3	1	1 U	1 U	1 U	0.3 U
Dibromochloromethane	0.14712	0.3	1	**1 U [f]**	**1 U [f]**	**1 U [f]**	**0.3 U [f]**
Ethylbenzene	700	0.3	1	1 U	1 U	1 U	0.3 U
Methylene Chloride	5	0.32	1	1 U	1 U	1 U	0.32 U
Naphthalene	0.14314	0.42	1	**1 U [f]**	**1 U [f]**	**1 U [f]**	**0.42 U [f]**
Styrene	100	0.3	1	1 U	1 U	1 U	0.3 U
Tetrachloroethene	5	21	32	**32**	**29**	**23**	**21**
Toluene	1000	0.3	1	1 U	1 U	1 U	0.3 U
Total Trihalomethanes [e]	80	42	56	53	52	56	42
Trans-1,2-Dichloroethene	100	0.3	1	1 U	1 U	1 U	0.3 U
Trichloroethene	5	6	12	**12**	**10**	**9.6**	**6**
Trichlorofluoromethane	1288.24	0.3	1	1 U	1 U	1 U	0.3 U
Vinyl Chloride	2	0.3	1	1 U	1 U	1 U	0.3 U
Xylene (Total)	10000	0.6	2	2 U	2 U	2 U	0.6 U

TABLE 3-13
ANALYTICAL RESULTS FOR WELL TIMETMW-1
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012

Notes:

a NDEP BCL are reported in the same unit as analytical group. Source of NDEP BCL's are from May 2012 update. MCL applied where no BCL exists.
b Bolded results exceed the associated screening level.
c MCL for Adjusted Gross Alpha (Total) was calculated using the following equation
Adjusted Gross Alpha (Total) MCL = Alpha Total - (Uranium 234 + Uranium 235 + Uranium 238)
d MCL for Radium was calculated using the following equation: Radium MCL = Radium 226 + Radium 228
e Total Trihalomethanes were calculated using the following equation:
Total Trihalomethanes = Bromodichloromethane + Bromoform + Chloroform + Dibromochloromethane
f Reporting limit exceeds the screening level due to analytical limitations or sample dilution.

Qualifiers:

J Estimated value
U Analyte not detected; the reporting limit is reported in the table
R Rejected data point

+ Biased high
- Biased low
µg/L Microgram per liter
MCL Maximum contaminant level
MDC Minimum detectable concentration
mg/L Milligram per liter
NA Not anaylzed; or not calculated if components are not detected
pCi/L Picocurie per liter
QTR Quarter
SL Screening level

TABLE 3-14
ANALYTICAL RESULTS FOR WELL TIMETMW-3R
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
ALKALINITY (reported in mg/L)							
Bicarbonate Alkalinity		91	120	110	110	99	91
ANIONS (reported in mg/L)							
Chloride	4	170	930	**250 J**	**340**	**560**	**930**
Nitrate	10	2.7	3.7	2.9 J	3.1	3.2	3.7
Perchlorate	0.018	0.06	0.26	**0.11 J**	**0.12**	**0.16**	**0.26**
Sulfate	250	770	1200	**1000 J**	**910**	**780**	**770**
GENERAL							
Fluoride	4	0.56	0.71	0.67 J	0.71	0.59	0.56
Nitrite	1	0.2	0.5	0.2 U	0.5 U	0.5 U	0.5 U
Total Phosphorus		0.05	0.14	0.05 U	0.066	0.058	0.05 U
RADIONUCLIDES (reported in pCi/L)							
Alpha (Total)		6.25	14.1	8.15 ± 2.94	6.25 ± 3.2	10.7 ± 3.93	13.6 ± 4.92 M3
Adjusted Gross Alpha (Total) MCL [c]	15	-8.36	0.17	-5.9	-8.4	-2.9	-0.6
Beta (Total)	50	5.09	16.8	9.11 ± 3.51	5.09 ± 4.54 U	11.3 ± 4.51	10.3 ± 6.33 M3
Uranium 238		5.64	6.19	5.77 ± 0.985	6.15 ± 1.09	5.81 ± 1.19	6 ± 1.18
Uranium 234		7.56	8.31	7.98 ± 1.33	8.17 ± 1.42	7.56 ± 1.49	7.99 ± 1.52 M3
Thorium 230	0.042	-0.0382	0.185	0.0333 ± 0.0539 U	-0.015 ± 0.0594 U	0.12 ± 0.0819 U [f]	**-0.0382 ± 0.0467 U**
Radium 226	5	0	0.678	0.104 ± 0.251 U	0.256 ± 0.269 U	0.323 ± 0.254	0.286 ± 0.203 LT
Radon 222	300	206	783	325 ± 45.5	**783 ± 97.5**	**626 ± 79.1**	**678 ± 84.2**
Lead 214		0.473	77.5	11.2 ± 5.36 J-	12.7 ± 5.87 J-	0.473 ± 9.61 UJ-	77.5 ± 13.1 M3J
Bismuth 214		-2.06	66.8	-2.06 ± 13.4 UJ-	11.4 ± 6.09 J-	0.928 ± 10.6 UJ-	66.8 ± 14.5 J
Lead 210				NA	NA	NA	NA
Thorium 232	0.14	0.00254	0.0399	0.00273 ± 0.0156 U	0.035 ± 0.0274 U	0.0211 ± 0.0257 U	0.00254 ± 0.0124 U
Radium 228	5	0.164	12	0.76 ± 0.379	0.164 ± 0.298 U	0.769 ± 0.349	0.457 ± 0.328 U
Radium MCL [d]	5	0.29	1.09	0.76	NA	1.09	0.29
Actinium-228		7.39	23.1	7.39 ± 23.3 U	8.72 ± 18.5 U	16.4 ± 7.89 U	12 ± 11 U
Thorium 228	0.11	-0.0541	0.0366	-0.00335 ± 0.0611 U	-0.0541 ± 0.0599 U	0.0355 ± 0.0851 U	-0.00512 ± 0.0619 U
Lead 212		-5.11	6.31	-4.55 ± 9.34 U	1.03 ± 8.29 U	6.31 ± 4.24 U	-2.22 ± 7.6 U
Bismuth 212		-11.4	44	-11.4 ± 35.7 U	44 ± 40.8 U	30.4 ± 41 U	24.8 ± 36.4 U
Thallium 208		0.0863	7.57	7.57 ± 2.9 J	2.7 ± 2.96 U	2.12 ± 2.93 U	0.556 ± 4.46 U

WELL ID: TIMETMW-3R

TABLE 3-14
ANALYTICAL RESULTS FOR WELL TIMETMW-3R
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
RADIONUCLIDES (reported in pCi/L)							
Potassium 40		-68.5	86.5	-68.5 ± 75.5 U	-7.52 ± 82.7 U	-58.4 ± 98.5 U	-13.3 ± 73.7 UM
Uranium 235		0.203	2.66	0.284 ± 0.102	0.295 ± 0.125	0.257 ± 0.162	0.203 ± 0.135
Polonium-210				NA	NA	NA	NA
Protactinium-234		0.56	535	496 ± 452 U	0.56 ± 715 U	96 ± 469 U	87.5 ± 512 U
Radium-224		-5.11	6.31	-4.55 ± 9.34 U	1.03 ± 8.29 U	6.31 ± 4.24 U	-2.22 ± 7.6 U
Thorium-227		-16.3	11.4	0.496 ± 19.8 U	11.4 ± 19.3 U	-16.3 ± 14.3 U	-3.14 ± 20.2 U
Thorium-234		-39.2	52.4	23 ± 80.9 U	52.4 ± 83.8 U	30.7 ± 74.4 U	-12.7 ± 45.8 U
SOLIDS (reported in mg/L)							
Total Dissolved Solids	1900	2000	2900	**2000**	**2000**	**2200**	**2900**
TOTAL METAL (reported in ug/L)							
Aluminum	50	91	600	**500 U [f]**	**500 U [f]**	**500 U [f]**	**500 U [f]**
Antimony	6	20	100	**100 U [f]**	**100 U [f]**	**100 U [f]**	**100 U [f]**
Arsenic	10	160	220	**190**	**200**	**190**	**160**
Barium	2000	13	28	13 J-	18 J-	20 J	28 B
Beryllium	4	0.2	10	10 U [f]	**10 U [f]**	**2.4 J**	10 U [f]
Cadmium	5	5	25	25 U [f]	**25 U [f]**	**25 U [f]**	**25 U [f]**
Calcium		140000	220000	140000 J-	150000	170000	220000
Chromium	100	17	32	21 J-	28 J-	17 J	19 B
Chromium VI	100	23	40	33	30	26	23
Cobalt	10.95	10	50	50 U [f]	**50 U [f]**	**50 U [f]**	**50 U [f]**
Copper	1300	0.81	50	50 U	50 U	50 U	50 U
Iron	300	27	500	500 U [f]	**500 U [f]**	**500 U [f]**	**500 U [f]**
Lead	15	1.3	15	15 U	15 U	15 U	15 U
Lithium	73	120	170	**120 J+**	**130 J+**	**140 J+**	**170**
Magnesium	206955	86000	150000	86000 J-	96000	110000	150000
Manganese	20	2.1	50	50 U [f]	**50 U [f]**	**2.1 J**	4.4 B
Mercury	2	0.025	0.2	0.025 J-	0.2 U	0.2 U	0.2 U
Molybdenum	182.5	50	92	71	76	63	50
Nickel	730	1.1	100	100 U	100 U	100 U	100 U

TABLE 3-14
ANALYTICAL RESULTS FOR WELL TIMETMW-3R
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
TOTAL METAL (reported in ug/L)							
Potassium		9300	13000	9300 J	9300 J+	9300 J	12000
Selenium	50	4.4	25	25 U	25 U	25 U	25 U
Silicon		32000	38000	33000 J-	38000	35000	36000
Silver	100	10	50	50 U	50 U	50 U	50 U
Sodium		250000	400000	280000 J-	310000	320000 J	400000
Thallium	2	0.02	0.2	0.2 U	0.04 U	0.04 J	0.02 B
Tin	21900	50	250	250 U	250 U	250 U	250 U
Titanium	146000	3.2	100	100 U	100 U	100 U	100 U
Uranium	30	17	21	17	17	18	17
Vanadium	182.5	23	32	30 U	31 J	26 J	23 B
Zinc	10950	0.73	100	100 U	100 U	100 U	100 U
Zirconium		4.4	100	100 U	4.4 U	6.7 J	100 U
VOLATILES (reported in ug/L)							
1,1,1-Trichloroethane	200	1	1	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	5	1	1	1 U	1 U	1 U	1 U
1,1-Dichloroethane	2.41809	1	1	1 U	1 U	1 U	1 U
1,1-Dichloroethene	7	1	1	1 U	1 U	1 U	1 U
1,2-Dichloroethane	5	0.43	0.58	0.46 J	0.48 J	0.58 J	0.49 J
1,2-Dichloropropane	5	24	31	**31**	**26**	**28**	**24**
1,3-Dichlorobenzene	86.7327	1	1	1 U	1 U	1 U	1 U
2-Butanone	7064.52	10	10	10 U	10 U	10 U	10 U
4-Methyl-2-Pentanone	1990.91	10	10	10 U	10 U	10 U	10 U
Acetone	21782.9	10	10	10 U	10 U	10 U	10 U
Benzene	5	1	1	1 U	1 U	1 U	1 U
Bromodichloromethane	0.1173	0.18	1	**1 U [f]**	**1 U [f]**	**1 U [f]**	**1 U [f]**
Bromoform	8.51032	1	1	1 U	1 U	1 U	1 U
Bromomethane	8.66102	1	1	1 U	1 U	1 U	1 U
Carbon Disulfide	1042.86	1	1	1 U	1 U	1 U	1 U
Carbon Tetrachloride	5	1	1	1 U	1 U	1 U	1 U

TABLE 3-14
ANALYTICAL RESULTS FOR WELL TIMETMW-3R
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
VOLATILES (reported in ug/L)							
Chlorobenzene	100	1	1	1 U	1 U	1 U	1 U
Chloroform	0.19279	0.71	1	**0.9 J**	**0.93 J**	**1**	**0.96 J**
Chloromethane	2.7037	1	1	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	70	1	1	1 U	1 U	1 U	1 U
Dibromochloromethane	0.14712	1	1	**1 U [f]**	**1 U [f]**	**1 U [f]**	**1 U [f]**
Ethylbenzene	700	1	1	1 U	1 U	1 U	1 U
Methylene Chloride	5	1	1	1 U	1 U	1 U	1 U
Naphthalene	0.14314	1	1	**1 U [f]**	**1 U [f]**	**1 U [f]**	**1 U [f]**
Styrene	100	1	1	1 U	1 U	1 U	1 U
Tetrachloroethene	5	1	1	1 U	1 U	1 U	1 U
Toluene	1000	1	1	1 U	1 U	1 U	1 U
Total Trihalomethanes [e]	80	0.73	1	0.9	0.93	1	0.96
Trans-1,2-Dichloroethene	100	1	1	1 U	1 U	1 U	1 U
Trichloroethene	5	19	24	**23**	**24**	**23**	**20**
Trichlorofluoromethane	1288.24	1	1	1 U	1 U	1 U	1 U
Vinyl Chloride	2	1	1	1 U	1 U	1 U	1 U
Xylene (Total)	10000	2	10	2 U	10 U	2 U	2 U

TABLE 3-14
ANALYTICAL RESULTS FOR WELL TIMETMW-3R
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012

Notes:

a NDEP BCL are reported in the same unit as analytical group. Source of NDEP BCL's are from May 2012 update. MCL applied where no BCL exists.
b Bolded results exceed the associated screening level.
c MCL for Adjusted Gross Alpha (Total) was calculated using the following equation
Adjusted Gross Alpha (Total) MCL = Alpha Total - (Uranium 234 + Uranium 235 + Uranium 238)
d MCL for Radium was calculated using the following equation: Radium MCL = Radium 226 + Radium 228
e Total Trihalomethanes were calculated using the following equation:
Total Trihalomethanes = Bromodichloromethane + Bromoform + Chloroform + Dibromochloromethane
f Reporting limit exceeds the screening level due to analytical limitations or sample dilution.

Qualifiers:

J Estimated value
U Analyte not detected; the reporting limit is reported in the table
R Rejected data point

+ Biased high
- Biased low
µg/L Microgram per liter
MCL Maximum contaminant level
MDC Minimum detectable concentration
mg/L Milligram per liter
NA Not anaylzed; or not calculated if components are not detected
pCi/L Picocurie per liter
QTR Quarter
SL Screening level

TABLE 3-15
ANALYTICAL RESULTS FOR WELL TIMETMW-4
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
ALKALINITY (reported in mg/L)							
Bicarbonate Alkalinity		74	110	110	110	110	110 J
ANIONS (reported in mg/L)							
Chloride	4	170	2600	**200 J**	**190**	**180**	**170 J**
Nitrate	10	2	4.1	3 J	3	2.8	2.9 J
Perchlorate	0.018	0.13	0.27	**0.16 J**	**0.14**	**0.14**	**0.14 J**
Sulfate	250	1600	3300	**1900 J**	**1800**	**1700**	**1600 J**
GENERAL							
Fluoride	4	0.5	0.91	0.84 J	0.68	0.72	0.56 J
Nitrite	1	0.5	0.5	0.5 U	0.5 U	0.5 U	0.5 U
Total Phosphorus		0.05	0.066	0.05 U	0.05 U	0.05 U	0.05 U
RADIONUCLIDES (reported in pCi/L)							
Alpha (Total)		0	40.2	28.2 ± 7.2	12.7 ± 4.46	40.2 ± 8.83	18.3 ± 5.58
Adjusted Gross Alpha (Total) MCL [c]	15	-28.3	10.12	0.7	-13.8	10.1	-11.1
Beta (Total)	50	-0.9	22.3	17.2 ± 7.27	4.87 ± 6.96 U	15 ± 5.4	2.73 ± 6.27 U
Uranium 238		8.76	12.3	11.5 ± 1.9	11.1 ± 1.87	12.3 ± 2.12	12.2 ± 2.15
Uranium 234		12.3	17.3	15.5 ± 2.54	14.9 ± 2.49	17.3 ± 2.94	16.5 ± 2.86
Thorium 230	0.042	-0.0589	0.067	**-0.0258 ± 0.0509 U**	-0.022 ± 0.0512 U	0.0416 ± 0.0566 U	-0.0288 ± 0.0562 U
Radium 226	5	0.0266	0.831	0.416 ± 0.306	0.0266 ± 0.13 U	0.284 ± 0.288 U	0.352 ± 0.246 J
Radon 222	300	256	1400	**1230 ± 145**	**1300 ± 155**	**1400 ± 167**	**1280 ± 152**
Lead 214		-2.34	59.5	-2.34 ± 7.92 UJ-	1.5 ± 10.9 UJ-	11.9 ± 11.7 UJ-	16.3 ± 10.3 UJ-
Bismuth 214		-26.4	66.4	-26.4 ± 9.55 UJ-	8.81 ± 12.8 UJ-	6.85 ± 11.8 UJ-	18.2 ± 12 UJ-
Lead 210		0.406	0.664	NA	NA	NA	NA
Thorium 232	0.14	-0.00687	0.0363	0.00171 ± 0.0126 U	-0.00392 ± 0.0147 U	0.00965 ± 0.0127 U	-0.00687 ± 0.0195 U
Radium 228	5	-0.0637	0.87	0.589 ± 0.342	0.145 ± 0.285 U	0.807 ± 0.361	0.247 ± 0.304 U
Radium MCL [d]	5	0.09	1.57	1	NA	0.81	0.35
Actinium-228		-1.28	20.1	1.73 ± 11.5 U	14.7 ± 12.3 U	12.8 ± 9.29 U	14.1 ± 10.7 U
Thorium 228	0.11	-0.0727	0.189	0.0128 ± 0.0603 U	-0.00132 ± 0.048 U	-0.0445 ± 0.06 U	-0.0727 ± 0.083 U
Lead 212		-1.06	5.61	3.05 ± 4.75 U	-0.22 ± 7.72 U	4.46 ± 8.13 U	5.61 ± 7.54 U
Bismuth 212		12.9	46.6	18.6 ± 19.3 U	44.1 ± 44.2 U	12.9 ± 40.5 U	24.3 ± 39.8 U
Thallium 208		-0.832	5.63	1.62 ± 2.82 U	-0.832 ± 6.32 U	0.246 ± 6.35 U	0.388 ± 5.75 U

WELL ID: TIMETMW-4

TABLE 3-15
ANALYTICAL RESULTS FOR WELL TIMETMW-4
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
RADIONUCLIDES (reported in pCi/L)							
Potassium 40		-39.4	45	9.6 ± 46.9 U	-39.4 ± 89.8 U	-29.2 ± 74.7 U	-35.3 ± 72.5 U
Uranium 235		0.394	0.77	0.532 ± 0.158	0.513 ± 0.164	0.481 ± 0.172	0.673 ± 0.22
Polonium-210		0.0127	0.353	NA	NA	NA	NA
Protactinium-234		0	559	396 ± 244 J	24.8 ± 576 U	102 ± 446 U	265 ± 462 U
Radium-224		-1.06	5.61	3.05 ± 4.75 U	-0.22 ± 7.72 U	4.46 ± 8.13 U	5.61 ± 7.54 U
Thorium-227		-13	20.6	-13 ± 12.8 U	-3.92 ± 22.9 U	-2.44 ± 19 U	-12.6 ± 18.8 U
Thorium-234		-34	37.3	0.358 ± 55.6 U	-21.4 ± 84.1 U	37.3 ± 86.7 U	10.6 ± 74 U
SOLIDS (reported in mg/L)							
Total Dissolved Solids	1900	2830	5690	**3000**	**3100**	**3100**	**3100**
TOTAL METAL (reported in ug/L)							
Aluminum	50	4.2	500	**500 U [f]**	**500 U [f]**	**500 U [f]**	**91 J**
Antimony	6	7.6	100	**100 U [f]**	**100 U [f]**	**100 U [f]**	**15 U [f]**
Arsenic	10	20	180	**130**	**130**	**120**	**180**
Barium	2000	1.6	293	5 J-	6.7 J-	6.8 J	9.9 J
Beryllium	4	0.081	10	10 U [f]	**10 U [f]**	**10 U [f]**	**0.88 U**
Cadmium	5	0.33	25	25 U [f]	**25 U [f]**	**25 U [f]**	**1.6 U**
Calcium		50000	500000	320000 J-	310000	310000	430000 J-
Chromium	100	2.6	117	5.8 J-	13 J-	7.5 J	18 J
Chromium VI	100	11	29	19	15	11	12
Cobalt	10.95	0.82	50	50 U [f]	**50 U [f]**	**50 U [f]**	**2.2 U**
Copper	1300	1	50	50 U	50 U	50 U	4.8 U
Iron	300	9.3	25500	500 U [f]	**500 U [f]**	**500 U [f]**	**25 U**
Lead	15	1	23.7	15 U	15 U	15 U	6.4 U
Lithium	73	120	180	**120 J+**	**120 J+**	**120 J+**	**180 J**
Magnesium	206955	26100	310000	150000 J-	150000	150000	140000 J-
Manganese	20	0.5	469	50 U [f]	**50 U [f]**	**50 U [f]**	**2.1 J**
Mercury	2	0.0029	0.23	0.2 J-	0.2 U	0.0069 J	0.0029 U
Molybdenum	182.5	27	66	30 J-	29 J-	27 J	42 J
Nickel	730	0.9	100	100 U	100 U	100 U	4.7 U

TABLE 3-15
ANALYTICAL RESULTS FOR WELL TIMETMW-4
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
TOTAL METAL (reported in ug/L)							
Potassium		7500	19000	9300 J	8500 J+	7500	9500 J
Selenium	50	3.1	25	25 U	25 U	25 U	13 U
Silicon		35000	52000	39000 J-	42000	40000	52000 J-
Silver	100	0.57	50	50 U	50 U	50 U	5.4 U
Sodium		5000	728000	330000 J-	340000	300000	490000 J-
Thallium	2	0.016	42	0.2 U	0.05 U	0.03 J	0.016 U
Tin	21900	4.6	250	250 U	250 U	250 U	14 U
Titanium	146000	1.4	100	100 U	100 U	100 U	1.4 U
Uranium	30	5	42	**34**	**33**	**34**	**24**
Vanadium	182.5	8.4	101	53	51	51	61
Zinc	10950	1.2	100	100 U	100 U	100 U	7.3 J
Zirconium		2.5	100	100 U	4.5 U	4.8 J	2.5 U
VOLATILES (reported in ug/L)							
1,1,1-Trichloroethane	200	0.3	5	4 U	1 U	1 U	0.3 U
1,1,2-Trichloroethane	5	0.3	5	4 U	1 U	1 U	0.3 U
1,1-Dichloroethane	2.41809	0.24	5	4 U [f]	**0.42 J**	0.42 J	0.33 J
1,1-Dichloroethene	7	1	13	3.6 J	3.7	3.1	2.5
1,2-Dichloroethane	5	0.3	5	4 U	1 U	1 U	0.3 U
1,2-Dichloropropane	5	0.3	5	4 U	1 U	1 U	0.3 U
1,3-Dichlorobenzene	86.7327	0.3	5	4 U	1 U	1 U	0.3 U
2-Butanone	7064.52	3	40	40 U	10 U	10 U	3 U
4-Methyl-2-Pentanone	1990.91	3	40	40 U	10 U	10 U	3 U
Acetone	21782.9	3.2	40	40 U	10 U	10 U	6.4 U
Benzene	5	0.14	5	4 U	1 U	1 U	0.3 U
Bromodichloromethane	0.1173	0.25	5	**4 U [f]**	**1 U [f]**	**1 U [f]**	**0.3 U [f]**
Bromoform	8.51032	0.3	5	4 U	1 U	1 U	0.3 U
Bromomethane	8.66102	0.3	10	4 U	1 U	1 U	0.3 U
Carbon Disulfide	1042.86	0.3	5	4 U	1 U	1 U	0.3 U
Carbon Tetrachloride	5	0.14	5	4 U	1 U	1 U	0.3 U

TABLE 3-15
ANALYTICAL RESULTS FOR WELL TIMETMW-4
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
VOLATILES (reported in ug/L)							
Chlorobenzene	100	0.3	5	4 U	1 U	1 U	0.3 U
Chloroform	0.19279	1.1	15	**2.2 J**	**3**	**2.2**	**2**
Chloromethane	2.7037	0.33	10	4 U [f]	**1 U**	1 U	0.33 U
cis-1,2-Dichloroethene	70	0.3	4	4 U	1 U	1 U	0.3 U
Dibromochloromethane	0.14712	0.3	5	**4 U [f]**	**1 U [f]**	**1 U [f]**	**0.3 U [f]**
Ethylbenzene	700	0.3	5	4 U	1 U	1 U	0.3 U
Methylene Chloride	5	0.32	8.7	1.3 U	1 U	1 U	0.32 U
Naphthalene	0.14314	0.42	4	**4 U [f]**	**1 U [f]**	**1 U [f]**	**0.42 U [f]**
Styrene	100	0.3	5	4 U	1 U	1 U	0.3 U
Tetrachloroethene	5	20	88	**53**	**50**	**46**	**39**
Toluene	1000	0.27	5	4 U	1 U	1 U	0.3 U
Total Trihalomethanes [e]	80	1.1	27	2.2	3	2.2	2
Trans-1,2-Dichloroethene	100	0.3	4	4 U	1 U	1 U	0.3 U
Trichloroethene	5	0.3	5	4 U	0.33 J	0.34 J	0.3 U
Trichlorofluoromethane	1288.24	0.3	4	4 U	1 U	1 U	0.3 U
Vinyl Chloride	2	0.3	10	4 U [f]	**1 U**	1 U	0.3 U
Xylene (Total)	10000	0.6	10	8 U	2 U	2 U	0.6 U

TABLE 3-15
ANALYTICAL RESULTS FOR WELL TIMETMW-4
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012

Notes:

a NDEP BCL are reported in the same unit as analytical group. Source of NDEP BCL's are from May 2012 update. MCL applied where no BCL exists.
b Bolded results exceed the associated screening level.
c MCL for Adjusted Gross Alpha (Total) was calculated using the following equation
Adjusted Gross Alpha (Total) MCL = Alpha Total - (Uranium 234 + Uranium 235 + Uranium 238)
d MCL for Radium was calculated using the following equation: Radium MCL = Radium 226 + Radium 228
e Total Trihalomethanes were calculated using the following equation:
Total Trihalomethanes = Bromodichloromethane + Bromoform + Chloroform + Dibromochloromethane
f Reporting limit exceeds the screening level due to analytical limitations or sample dilution.

Qualifiers:

J Estimated value
U Analyte not detected; the reporting limit is reported in the table
R Rejected data point

+ Biased high
- Biased low
µg/L Microgram per liter
MCL Maximum contaminant level
MDC Minimum detectable concentration
mg/L Milligram per liter
NA Not anaylzed; or not calculated if components are not detected
pCi/L Picocurie per liter
QTR Quarter
SL Screening level

TABLE 3-16
ANALYTICAL RESULTS FOR WELL TIMETMW-5
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
ALKALINITY (reported in mg/L)							
Bicarbonate Alkalinity		76	200	200	100	110	100 J
ANIONS (reported in mg/L)							
Chloride	4	442	1110	**700 J**	**700**	**580**	**540 J**
Nitrate	10	6	35.2	9.1 J	8.5	7.8	8.6 J
Perchlorate	0.018	0.38	0.63	**0.55 J**	**0.48**	**0.45**	**0.53 J**
Sulfate	250	1680	3860	**2000 J**	**1900**	**1700**	**1800 J**
GENERAL							
Fluoride	4	1.7	3.1	2 J	1.7	2	2.1 J
Nitrite	1	0.5	1	0.5 U	0.5 U	0.5 U	0.5 U
Total Phosphorus		0.05	0.064	0.05 U	0.05 U	0.057	0.05 U
RADIONUCLIDES (reported in pCi/L)							
Alpha (Total)		8	39	17.6 ± 6.1	19.4 ± 7.65	8.82 ± 5.79	15.7 ± 7.67
Adjusted Gross Alpha (Total) MCL [c]	15	-15.57	26.8	-5.7	-5	-12.8	-5.1
Beta (Total)	50	-2.01	36	15.2 ± 7.08	8.82 ± 14.3 U	12.5 ± 6.6	-2.01 ± 11.8 U
Uranium 238		4.75	9.69	9.69 ± 1.59	9.46 ± 1.63	8.69 ± 1.63	8.71 ± 1.59
Uranium 234		5.9	14.3	13.3 ± 2.16	14.3 ± 2.41	12.5 ± 2.27	11.6 ± 2.07
Thorium 230	0.042	-0.0747	0.45	-0.0104 ± 0.0547 U	-0.0747 ± 0.049 U	0.0144 ± 0.0579 U	-0.0331 ± 0.0434 U
Radium 226	5	-0.89	1.73	0.42 ± 0.456 U	0.781 ± 0.356	0.208 ± 0.298 U	1.15 ± 0.462
Radon 222	300	717	1750	**1380 ± 163**	**1380 ± 164**	**1670 ± 197**	**1300 ± 154**
Lead 214		-3.61	33.2	-3.61 ± 6.56 UJ-	-1.15 ± 7.77 UJ-	14.7 ± 9.89 UJ-	26.1 ± 8.74 J-
Bismuth 214		-18.7	37	-0.393 ± 6.73 UJ-	-18.7 ± 9.62 UJ-	8.67 ± 11.6 UJ-	30 ± 9.23 J-
Lead 210		0.582	1.07	NA	NA	NA	NA
Thorium 232	0.14	-0.0106	0.03	0.00181 ± 0.0134 U	-0.0054 ± 0.016 U	-0.000543 ± 0.0145 U	0.0116 ± 0.0124 U
Radium 228	5	0.344	2.1	0.876 ± 0.444	0.638 ± 0.352	0.594 ± 0.303	0.666 ± 0.38 J
Radium MCL [d]	5	-0.03	3.46	0.88	1.42	0.59	1.82
Actinium-228		-2.96	22.4	-1.46 ± 11.5 U	-2.96 ± 11.2 U	7.47 ± 17.4 U	13.5 ± 20.8 U
Thorium 228	0.11	-0.0435	0.23	-0.0129 ± 0.0576 U	-0.0435 ± 0.0599 U	0.0261 ± 0.0669 U	0.0327 ± 0.0501 U
Lead 212		-0.0453	16.7	2.65 ± 5.14 U	-0.0453 ± 4.46 U	3.61 ± 7.5 U	0.547 ± 6.08 U
Bismuth 212		5.06	69.4	25.2 ± 17.1 U	5.61 ± 34 U	5.06 ± 33.4 U	38.8 ± 33.2 U
Thallium 208		-1.05	6.56	0.956 ± 2.72 U	0.595 ± 2.7 U	1.75 ± 5.17 U	-0.0658 ± 4.74 U

WELL ID: TIMETMW-5

TABLE 3-16
ANALYTICAL RESULTS FOR WELL TIMETMW-5
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
RADIONUCLIDES (reported in pCi/L)							
Potassium 40		-51.6	170	-51.6 ± 43.1 U	-18.8 ± 46.3 U	-27.9 ± 69.9 U	-18 ± 66.4 U
Uranium 235		0.13	0.641	0.32 ± 0.108	0.641 ± 0.193	0.465 ± 0.2	0.537 ± 0.199
Polonium-210		0.224	0.233	NA	NA	NA	NA
Protactinium-234		-155	763	138 ± 212 U	-155 ± 536 U	-140 ± 724 U	346 ± 394 U
Radium-224		-0.0453	16.7	2.65 ± 5.14 U	-0.0453 ± 4.46 U	3.61 ± 7.5 U	0.547 ± 6.08 U
Thorium-227		-12.2	6.91	-5.83 ± 12.6 U	-1.99 ± 13.2 U	-12.2 ± 12.9 U	-1.83 ± 10.2 U
Thorium-234		-79	242	10.7 ± 46.6 U	29.3 ± 52.2 U	-79 ± 112 U	14.1 ± 40.9 U
SOLIDS (reported in mg/L)							
Total Dissolved Solids	1900	3130	4800	**3900**	**4100**	**3600**	**4000 J**
TOTAL METAL (reported in ug/L)							
Aluminum	50	14	500	**500 U [f]**	**500 U [f]**	**500 U [f]**	**76 U [f]**
Antimony	6	2.3	100	**100 U [f]**	**100 U [f]**	**100 U [f]**	**15 U [f]**
Arsenic	10	120	196	**190**	**190**	**180**	**130**
Barium	2000	5.9	84.9	7.8 J-	8.7 J-	7.2 J	5.9 J
Beryllium	4	0.081	10	10 U [f]	**10 U [f]**	**3 J**	0.88 U
Cadmium	5	0.33	25	25 U [f]	**25 U [f]**	**25 U [f]**	**1.6 U**
Calcium		300000	618000	400000 J	410000	370000	300000 J-
Chromium	100	9.4	36.9	22 U	22 J-	16 J	9.4 J
Chromium VI	100	22	29	26	28	25	22
Cobalt	10.95	0.82	50	50 U [f]	**50 U [f]**	**50 U [f]**	**2.2 U**
Copper	1300	1	50	50 U	50 U	50 U	4.8 U
Iron	300	4.2	5900	500 U [f]	**500 U [f]**	**500 U [f]**	**25 U**
Lead	15	1	15	15 U	15 U	15 U	6.4 U
Lithium	73	120	240	**170 J+**	**170 J+**	**160 J+**	**120 J**
Magnesium	206955	120000	190000	150000 J	160000	130000	140000 J-
Manganese	20	0.26	158	50 U [f]	**50 U [f]**	**50 U [f]**	**0.57 U**
Mercury	2	0.011	0.2	0.017 J-	0.2 U	0.012 J	0.011 J
Molybdenum	182.5	33	58	51	56	58	33 J
Nickel	730	1.2	100	100 U	100 U	100 U	4.7 U

TABLE 3-16
ANALYTICAL RESULTS FOR WELL TIMETMW-5
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
TOTAL METAL (reported in ug/L)							
Potassium		7800	18000	11000 J	11000 J+	9200 J	7800 J
Selenium	50	4.6	25	25 U	25 U	25 U	13 U
Silicon		42000	55000	48000	52000	51000	42000 J-
Silver	100	0.63	50	50 U	50 U	50 U	5.4 U
Sodium		5000	661000	530000 J	590000	480000 J	330000 J-
Thallium	2	0.016	200	0.02 U	0.04 U	0.02 J	0.016 U
Tin	21900	4.1	250	250 U	250 U	250 U	14 U
Titanium	146000	1.4	100	100 U	100 U	100 U	1.4 U
Uranium	30	12	98.5	28	31	**28**	39
Vanadium	182.5	49	83	59	61	62	51
Zinc	10950	3.4	100	100 U	100 U	100 U	3.6 U
Zirconium		2.5	1000	100 U	100 U	3.1 J	2.5 U
VOLATILES (reported in ug/L)							
1,1,1-Trichloroethane	200	0.001	5	1 U	1 U	0.001 U	0.3 U
1,1,2-Trichloroethane	5	0.001	5	1 U	1 U	0.001 U	0.3 U
1,1-Dichloroethane	2.41809	0.001	5	1 U	1 U	0.001 U	0.3 U
1,1-Dichloroethene	7	0.001	5	1 U	1 U	0.001 U	0.3 U
1,2-Dichloroethane	5	0.001	5	1 U	1 U	0.001 U	0.3 U
1,2-Dichloropropane	5	0.001	5	1 U	1 U	0.001 U	0.3 U
1,3-Dichlorobenzene	86.7327	0.001	5	1 U	1 U	0.001 U	0.3 U
2-Butanone	7064.52	0.01	20	10 U	10 U	0.01 U	3 U
4-Methyl-2-Pentanone	1990.91	0.01	20	10 U	10 U	0.01 U	3 U
Acetone	21782.9	0.01	20	10 U	10 U	0.01 U	6.4 U
Benzene	5	0.001	5	1 U	1 U	0.001 U	0.3 U
Bromodichloromethane	0.1173	0.001	5	**1 U [f]**	**1 U [f]**	**0.001 U**	0.3 U [f]
Bromoform	8.51032	0.001	5	1 U	1 U	0.001 U	0.3 U
Bromomethane	8.66102	0.001	10	1 U	1 U	0.001 U	0.3 U
Carbon Disulfide	1042.86	0.001	18	1 U	1 U	0.001 U	0.3 U
Carbon Tetrachloride	5	0.0013	5	2	1.9	0.0013	0.59 J

TABLE 3-16
ANALYTICAL RESULTS FOR WELL TIMETMW-5
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
VOLATILES (reported in ug/L)							
Chlorobenzene	100	0.001	5	1 U	1 U	0.001 U	0.3 U
Chloroform	0.19279	0.0018	8.8	**2.3**	**2.2**	**0.0018**	1.6
Chloromethane	2.7037	0.001	10	1 U	1 U	0.001 U	0.33 U
cis-1,2-Dichloroethene	70	0.001	1	1 U	1 U	0.001 U	0.3 U
Dibromochloromethane	0.14712	0.001	5	**1 U [f]**	**1 U [f]**	**0.001 U**	0.3 U [f]
Ethylbenzene	700	0.001	5	1 U	1 U	0.001 U	0.3 U
Methylene Chloride	5	0.001	10	1 U	1 U	0.001 U	0.32 U
Naphthalene	0.14314	0.001	1	**1 U [f]**	**1 U [f]**	**0.001 U**	0.42 U [f]
Styrene	100	0.001	5	1 U	1 U	0.001 U	0.3 U
Tetrachloroethene	5	0.0011	5	1.4	1.2	0.0011	0.71 J
Toluene	1000	0.001	5	1 U	1 U	0.001 U	0.3 U
Total Trihalomethanes [e]	80	0	23.8	2.3	2.2	0.0018	1.6
Trans-1,2-Dichloroethene	100	0.001	1	1 U	1 U	0.001 U	0.3 U
Trichloroethene	5	0.001	5	1 U	1 U	0.001 U	0.3 U
Trichlorofluoromethane	1288.24	0.001	1	1 U	1 U	0.001 U	0.3 U
Vinyl Chloride	2	0.001	10	1 U	1 U	0.001 U	0.3 U
Xylene (Total)	10000	0.002	10	2 U	2 U	0.002 U	0.6 U

TABLE 3-16
ANALYTICAL RESULTS FOR WELL TIMETMW-5
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012

Notes:

a NDEP BCL are reported in the same unit as analytical group. Source of NDEP BCL's are from May 2012 update. MCL applied where no BCL exists.
b Bolded results exceed the associated screening level.
c MCL for Adjusted Gross Alpha (Total) was calculated using the following equation
Adjusted Gross Alpha (Total) MCL = Alpha Total - (Uranium 234 + Uranium 235 + Uranium 238)
d MCL for Radium was calculated using the following equation: Radium MCL = Radium 226 + Radium 228
e Total Trihalomethanes were calculated using the following equation:
Total Trihalomethanes = Bromodichloromethane + Bromoform + Chloroform + Dibromochloromethane
f Reporting limit exceeds the screening level due to analytical limitations or sample dilution.

Qualifiers:

J Estimated value
U Analyte not detected; the reporting limit is reported in the table
R Rejected data point

+ Biased high
- Biased low
µg/L Microgram per liter
MCL Maximum contaminant level
MDC Minimum detectable concentration
mg/L Milligram per liter
NA Not anaylzed; or not calculated if components are not detected
pCi/L Picocurie per liter
QTR Quarter
SL Screening level

TABLE 3-17
ANALYTICAL RESULTS FOR WELL TIMETMW-6R
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
ALKALINITY (reported in mg/L)							
Bicarbonate Alkalinity		12	150	130	140	140	140
ANIONS (reported in mg/L)							
Chloride	4	346	3400	**850 J**	**730**	**540**	**450**
Nitrate	10	3	10.9	5.4 J	4.7	4.1	3.9
Perchlorate	0.018	0.76	1.8	**1.4 J**	**1.5**	**1.5**	**1.5**
Sulfate	250	1200	2030	**1200 J**	**1200**	**1200**	**1200**
GENERAL							
Fluoride	4	0.5	1.1	0.78 J	0.69	0.8	0.67
Nitrite	1	0.5	0.5	0.5 U	0.5 U	0.5 U	0.5 U
Total Phosphorus		0.05	0.059	0.05 U	0.05 U	0.05 U	0.05 U
RADIONUCLIDES (reported in pCi/L)							
Alpha (Total)		19.4	131	29.5 ± 7.49	19.4 ± 5.72	31.2 ± 6.77	40.3 ± 10.8
Adjusted Gross Alpha (Total) MCL [c]	15	-83	48.68	-10.4	-19.8	-9.2	2.5
Beta (Total)	50	-13	93	37.6 ± 8.93	9.02 ± 7.39 U	22.2 ± 5.75	93 ± 20.2
Uranium 238		13.2	32.6	15.7 ± 2.54	15.7 ± 2.59	16.1 ± 2.72	15.1 ± 2.7
Uranium 234		16.9	50	23.3 ± 3.74	22.7 ± 3.7	23.4 ± 3.91	22 ± 3.85
Thorium 230	0.042	-0.0577	0.047	-0.00882 ± 0.0512 U	-0.0366 ± 0.0447 U	-0.0422 ± 0.0474 U	0.0233 ± 0.0603 U
Radium 226	5	-0.119	1.1	0.145 ± 0.371 U	0.0997 ± 0.201 U	0.0301 ± 0.181 U	0.28 ± 0.209 J
Radon 222	300	262	971	**922 ± 111**	**970 ± 118**	**971 ± 118**	**962 ± 116**
Lead 214		0.588	156	0.588 ± 11.2 UJ-	6.98 ± 6.8 UJ-	1.91 ± 10.1 UJ-	156 ± 20.7 J-
Bismuth 214		-2.26	145	-2.26 ± 13.1 UJ-	12.8 ± 7.13 J-	9.14 ± 9.14 UJ-	145 ± 22.2 J-
Lead 210		0.368	0.578	NA	NA	NA	NA
Thorium 232	0.14	-0.00292	0.0407	0.0048 ± 0.0146 U	-0.00292 ± 0.0107 U	-0.00245 ± 0.0119 U	0.0407 ± 0.03 J
Radium 228	5	-0.22	1.05	1.05 ± 0.465	0.501 ± 0.343 U	0.518 ± 0.311 U	0.0641 ± 0.272 U
Radium MCL [d]	5	0.03	1.36	1.05	NA	NA	0.28
Actinium-228		0.772	22.5	7.7 ± 9.25 U	0.772 ± 15.4 U	7.83 ± 21.3 U	15 ± 10.9 U
Thorium 228	0.11	-0.073	0.0816	-0.0507 ± 0.0526 U	-0.0105 ± 0.0466 U	0.0359 ± 0.0554 U	0.00547 ± 0.0534 U
Lead 212		-4.53	4.45	-3.32 ± 9.63 U	-4.53 ± 11 U	0.0264 ± 6.34 U	-1.03 ± 7.08 U
Bismuth 212		-7.6	49.5	-7.6 ± 37.3 U	34.6 ± 53.3 U	9.43 ± 35.5 U	49.5 ± 38.7 U
Thallium 208		-1.41	4.68	1.83 ± 6.32 U	-0.586 ± 6.78 U	-0.789 ± 5.49 U	2.71 ± 3.02 U

WELL ID: TIMETMW-6R

TABLE 3-17
ANALYTICAL RESULTS FOR WELL TIMETMW-6R
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
RADIONUCLIDES (reported in pCi/L)							
Potassium 40		-91.9	113	-18 ± 75.2 U	-28.2 ± 117 U	-53 ± 68 U	13.7 ± 73.1 U
Uranium 235		0.58	1.62	0.85 ± 0.207	0.78 ± 0.207	0.894 ± 0.251	0.721 ± 0.25
Polonium-210		0.0728	0.283	NA	NA	NA	NA
Protactinium-234		21.6	481	21.6 ± 442 U	481 ± 686 U	383 ± 411 U	350 ± 519 U
Radium-224		-4.53	4.45	-3.32 ± 9.63 U	-4.53 ± 11 U	0.0264 ± 6.34 U	-1.03 ± 7.08 U
Thorium-227		-20.3	14.1	-2.48 ± 19.3 U	14.1 ± 23.9 U	2.1 ± 10.3 U	6.81 ± 21.9 U
Thorium-234		-37	35.7	32.4 ± 75.9 U	32.9 ± 88.9 U	35.7 ± 37.3 U	-37 ± 46.3 U
SOLIDS (reported in mg/L)							
Total Dissolved Solids	1900	2900	8080	**3100**	**3300**	**3000**	**2900**
TOTAL METAL (reported in ug/L)							
Aluminum	50	16	500	**500 U [f]**	**500 U [f]**	**95 J**	**81 J**
Antimony	6	7.6	100	**100 U [f]**	**100 U [f]**	**100 U [f]**	**15 U [f]**
Arsenic	10	72.5	150	**130**	**140**	**140**	**140**
Barium	2000	7.8	41.8	10 J-	9.5 J-	14 J	7.8 J
Beryllium	4	0.08	10	10 U [f]	**10 U [f]**	**10 U [f]**	**0.88 U**
Cadmium	5	0.33	25	25 U [f]	**25 U [f]**	**25 U [f]**	**1.6 U**
Calcium		170000	792000	220000 J	210000	190000	170000
Chromium	100	23	105	69	77	83	84
Chromium VI	100	72	110	83	88	110	**99**
Cobalt	10.95	0.67	50	50 U [f]	**50 U [f]**	**50 U [f]**	**2.2 U**
Copper	1300	0.73	50	50 U	50 U	10 J	32 J
Iron	300	4.4	1360	500 U [f]	**500 U [f]**	**180 J**	25 U
Lead	15	1.7	15	15 U	15 U	15 U	6.4 U
Lithium	73	240	360	**290 J+**	**280 J+**	**260 J+**	**250**
Magnesium	206955	120000	506000	150000 J	150000	130000	120000
Manganese	20	0.83	51.3	0.96 U	50 U [f]	**1.7 J**	1.5 J
Mercury	2	0.0029	0.2	0.2 U	0.2 U	0.0065 J	0.0029 U
Molybdenum	182.5	16	39	18 J-	16 J-	27 J	23 J
Nickel	730	1.9	42	17 J-	19 J-	37 J	42 J

TABLE 3-17
ANALYTICAL RESULTS FOR WELL TIMETMW-6R
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
TOTAL METAL (reported in ug/L)							
Potassium		13000	22000	17000 J	15000 J+	13000	13000
Selenium	50	3.3	25	25 U	25 U	25 U	13 U
Silicon		32000	38000	35000	38000	37000	38000
Silver	100	0.83	50	50 U	50 U	50 U	5.4 U
Sodium		5000	1150000	500000 J	510000	430000	450000
Thallium	2	0.032	39	0.06 U	0.07 U	0.15 J	0.06 J
Tin	21900	14	250	250 U	250 U	250 U	14 U
Titanium	146000	1.4	100	100 U	100 U	100 U	1.4 U
Uranium	30	43	130	**43**	**48**	**46**	**43**
Vanadium	182.5	27	56	35 J-	39 J	42 J	42 J
Zinc	10950	1.5	100	100 U	100 U	10 J	3.6 U
Zirconium		2.5	100	100 U	3.4 U	14 J	2.5 U
VOLATILES (reported in ug/L)							
1,1,1-Trichloroethane	200	0.3	5	1 U	1 U	1 U	0.3 U
1,1,2-Trichloroethane	5	0.3	5	1 U	1 U	1 U	0.3 U
1,1-Dichloroethane	2.41809	0.3	5	1 U	1 U	1 U	0.3 U
1,1-Dichloroethene	7	0.27	5	0.31 J	0.3 J	1 U	0.3 U
1,2-Dichloroethane	5	0.3	5	1 U	1 U	1 U	0.3 U
1,2-Dichloropropane	5	0.3	5	1 U	1 U	1 U	0.3 U
1,3-Dichlorobenzene	86.7327	0.3	5	1 U	1 U	1 U	0.3 U
2-Butanone	7064.52	3	20	10 U	10 U	10 U	3 U
4-Methyl-2-Pentanone	1990.91	3	20	10 U	10 U	10 U	3 U
Acetone	21782.9	2.7	20	10 U	10 U	10 U	6.4 U
Benzene	5	0.3	5	1 U	1 U	1 U	0.3 U
Bromodichloromethane	0.1173	0.3	5	**1 U [f]**	**1 U [f]**	**1 U [f]**	**0.3 U [f]**
Bromoform	8.51032	0.3	5	1 U	1 U	1 U	0.3 U
Bromomethane	8.66102	0.3	10	1 U	1 U	1 U	0.3 U
Carbon Disulfide	1042.86	0.3	5	1 U	1 U	1 U	0.3 U
Carbon Tetrachloride	5	0.24	5	0.27 J	0.24 J	1 U	0.3 U

TABLE 3-17
ANALYTICAL RESULTS FOR WELL TIMETMW-6R
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
VOLATILES (reported in ug/L)							
Chlorobenzene	100	0.3	5	1 U	1 U	1 U	0.3 U
Chloroform	0.19279	8.6	79	**9.9**	**11**	**11**	**9.9**
Chloromethane	2.7037	0.33	10	1 U	1 U	1 U	0.33 U
cis-1,2-Dichloroethene	70	0.3	1	1 U	1 U	1 U	0.3 U
Dibromochloromethane	0.14712	0.3	5	**1 U [f]**	**1 U [f]**	**1 U [f]**	**0.3 U [f]**
Ethylbenzene	700	0.3	5	1 U	1 U	1 U	0.3 U
Methylene Chloride	5	0.32	8.2	1 U	1 U	1 U	0.32 U
Naphthalene	0.14314	0.42	1	**1 U [f]**	**1 U [f]**	**1 U [f]**	**0.42 U [f]**
Styrene	100	0.3	5	1 U	1 U	1 U	0.3 U
Tetrachloroethene	5	0.26	5	0.46 J	0.34 J	0.35 J	0.26 J
Toluene	1000	0.3	5	1 U	1 U	1 U	0.3 U
Total Trihalomethanes [e]	80	8.6	94	9.9	11	11	9.9
Trans-1,2-Dichloroethene	100	0.3	1	1 U	1 U	1 U	0.3 U
Trichloroethene	5	0.3	5	1 U	1 U	1 U	0.3 U
Trichlorofluoromethane	1288.24	0.3	1	1 U	1 U	1 U	0.3 U
Vinyl Chloride	2	0.3	10	1 U	1 U	1 U	0.3 U
Xylene (Total)	10000	0.6	10	2 U	2 U	2 U	0.6 U

TABLE 3-17
ANALYTICAL RESULTS FOR WELL TIMETMW-6R
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012

Notes:

a NDEP BCL are reported in the same unit as analytical group. Source of NDEP BCL's are from May 2012 update. MCL applied where no BCL exists.
b Bolded results exceed the associated screening level.
c MCL for Adjusted Gross Alpha (Total) was calculated using the following equation
Adjusted Gross Alpha (Total) MCL = Alpha Total - (Uranium 234 + Uranium 235 + Uranium 238)
d MCL for Radium was calculated using the following equation: Radium MCL = Radium 226 + Radium 228
e Total Trihalomethanes were calculated using the following equation:
Total Trihalomethanes = Bromodichloromethane + Bromoform + Chloroform + Dibromochloromethane
f Reporting limit exceeds the screening level due to analytical limitations or sample dilution.

Qualifiers:

J Estimated value
U Analyte not detected; the reporting limit is reported in the table
R Rejected data point

+ Biased high
- Biased low
µg/L Microgram per liter
MCL Maximum contaminant level
MDC Minimum detectable concentration
mg/L Milligram per liter
NA Not anaylzed; or not calculated if components are not detected
pCi/L Picocurie per liter
QTR Quarter
SL Screening level

TABLE 3-18
ANALYTICAL RESULTS FOR WELL M-129
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
ALKALINITY (reported in mg/L)							
Bicarbonate Alkalinity				NA	NA	NA	NA
ANIONS (reported in mg/L)							
Chloride	4	1100	1100	**1100**	**1100**	**1100**	**1100**
Nitrate	10			NA	NA	NA	NA
Perchlorate	0.018	39	51	**51**	**42**	**41**	**39**
Sulfate	250			NA	NA	NA	NA
GENERAL							
Fluoride	4			NA	NA	NA	NA
Nitrite	1			NA	NA	NA	NA
Total Phosphorus				NA	NA	NA	NA
RADIONUCLIDES (reported in pCi/L)							
Alpha (Total)				NA	NA	NA	NA
Adjusted Gross Alpha (Total) MCL [c]	15	0	0	NA	NA	NA	NA
Beta (Total)	50			NA	NA	NA	NA
Uranium 238				NA	NA	NA	NA
Uranium 234				NA	NA	NA	NA
Thorium 230	0.042			NA	NA	NA	NA
Radium 226	5			NA	NA	NA	NA
Radon 222	300			NA	NA	NA	NA
Lead 214				NA	NA	NA	NA
Bismuth 214				NA	NA	NA	NA
Lead 210				NA	NA	NA	NA
Thorium 232	0.14			NA	NA	NA	NA
Radium 228	5			NA	NA	NA	NA
Radium MCL [d]	5	0	0	NA	NA	NA	NA
Actinium-228				NA	NA	NA	NA
Thorium 228	0.11			NA	NA	NA	NA
Lead 212				NA	NA	NA	NA
Bismuth 212				NA	NA	NA	NA
Thallium 208				NA	NA	NA	NA

TABLE 3-18
ANALYTICAL RESULTS FOR WELL M-129
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
RADIONUCLIDES (reported in pCi/L)							
Potassium 40				NA	NA	NA	NA
Uranium 235				NA	NA	NA	NA
Polonium-210				NA	NA	NA	NA
Protactinium-234				NA	NA	NA	NA
Radium-224				NA	NA	NA	NA
Thorium-227				NA	NA	NA	NA
Thorium-234				NA	NA	NA	NA
SOLIDS (reported in mg/L)							
Total Dissolved Solids	1900	5500	6100	**5500**	**5900**	**5600**	**6100**
TOTAL METAL (reported in ug/L)							
Aluminum	50			NA	NA	NA	NA
Antimony	6			NA	NA	NA	NA
Arsenic	10			NA	NA	NA	NA
Barium	2000			NA	NA	NA	NA
Beryllium	4			NA	NA	NA	NA
Cadmium	5			NA	NA	NA	NA
Calcium				NA	NA	NA	NA
Chromium	100			NA	NA	NA	NA
Chromium VI	100	770	860	**810**	**790 J-**	**770**	**820**
Cobalt	10.95			NA	NA	NA	NA
Copper	1300			NA	NA	NA	NA
Iron	300			NA	NA	NA	NA
Lead	15			NA	NA	NA	NA
Lithium	73			NA	NA	NA	NA
Magnesium	206955			NA	NA	NA	NA
Manganese	20			NA	NA	NA	NA
Mercury	2			NA	NA	NA	NA
Molybdenum	182.5			NA	NA	NA	NA
Nickel	730			NA	NA	NA	NA

TABLE 3-18
ANALYTICAL RESULTS FOR WELL M-129
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
TOTAL METAL (reported in ug/L)							
Potassium				NA	NA	NA	NA
Selenium	50			NA	NA	NA	NA
Silicon				NA	NA	NA	NA
Silver	100			NA	NA	NA	NA
Sodium				NA	NA	NA	NA
Thallium	2			NA	NA	NA	NA
Tin	21900			NA	NA	NA	NA
Titanium	146000			NA	NA	NA	NA
Uranium	30	17	21	17	17	18	21
Vanadium	182.5			NA	NA	NA	NA
Zinc	10950			NA	NA	NA	NA
Zirconium				NA	NA	NA	NA
VOLATILES (reported in ug/L)							
1,1,1-Trichloroethane	200			NA	NA	NA	NA
1,1,2-Trichloroethane	5			NA	NA	NA	NA
1,1-Dichloroethane	2.41809			NA	NA	NA	NA
1,1-Dichloroethene	7	0.23	0.23	NA	NA	NA	NA
1,2-Dichloroethane	5			NA	NA	NA	NA
1,2-Dichloropropane	5			NA	NA	NA	NA
1,3-Dichlorobenzene	86.7327			NA	NA	NA	NA
2-Butanone	7064.52			NA	NA	NA	NA
4-Methyl-2-Pentanone	1990.91			NA	NA	NA	NA
Acetone	21782.9			NA	NA	NA	NA
Benzene	5	1	1	NA	NA	NA	NA
Bromodichloromethane	0.1173			NA	NA	NA	NA
Bromoform	8.51032			NA	NA	NA	NA
Bromomethane	8.66102			NA	NA	NA	NA
Carbon Disulfide	1042.86			NA	NA	NA	NA
Carbon Tetrachloride	5			NA	NA	NA	NA

TABLE 3-18
ANALYTICAL RESULTS FOR WELL M-129
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
VOLATILES (reported in ug/L)							
Chlorobenzene	100	1	1	NA	NA	NA	NA
Chloroform	0.19279	230	270	**260**	**230**	**270**	**270**
Chloromethane	2.7037			NA	NA	NA	NA
cis-1,2-Dichloroethene	70			NA	NA	NA	NA
Dibromochloromethane	0.14712			NA	NA	NA	NA
Ethylbenzene	700			NA	NA	NA	NA
Methylene Chloride	5			NA	NA	NA	NA
Naphthalene	0.14314			NA	NA	NA	NA
Styrene	100			NA	NA	NA	NA
Tetrachloroethene	5	1.1	1.4	1.2 J	1.4	1.1	1.1
Toluene	1000	1	1	NA	NA	NA	NA
Total Trihalomethanes [e]	80	230	270	**260**	**230**	**270**	**270**
Trans-1,2-Dichloroethene	100			NA	NA	NA	NA
Trichloroethene	5	1	1	NA	NA	NA	NA
Trichlorofluoromethane	1288.24			NA	NA	NA	NA
Vinyl Chloride	2			NA	NA	NA	NA
Xylene (Total)	10000			NA	NA	NA	NA

TABLE 3-18
ANALYTICAL RESULTS FOR WELL M-129
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012

Notes:

a NDEP BCL are reported in the same unit as analytical group. Source of NDEP BCL's are from May 2012 update. MCL applied where no BCL exists.
b Bolded results exceed the associated screening level.
c MCL for Adjusted Gross Alpha (Total) was calculated using the following equation
Adjusted Gross Alpha (Total) MCL = Alpha Total - (Uranium 234 + Uranium 235 + Uranium 238)
d MCL for Radium was calculated using the following equation: Radium MCL = Radium 226 + Radium 228
e Total Trihalomethanes were calculated using the following equation:
Total Trihalomethanes = Bromodichloromethane + Bromoform + Chloroform + Dibromochloromethane
f Reporting limit exceeds the screening level due to analytical limitations or sample dilution.

Qualifiers:

J Estimated value
U Analyte not detected; the reporting limit is reported in the table
R Rejected data point

+ Biased high
- Biased low
µg/L Microgram per liter
MCL Maximum contaminant level
MDC Minimum detectable concentration
mg/L Milligram per liter
NA Not anaylzed; or not calculated if components are not detected
pCi/L Picocurie per liter
QTR Quarter
SL Screening level

TABLE 3-19
ANALYTICAL RESULTS FOR WELL M-130
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
ALKALINITY (reported in mg/L)							
Bicarbonate Alkalinity				NA	NA	NA	NA
ANIONS (reported in mg/L)							
Chloride	4	890	1400	**1100**	**1300**	**1400**	**890**
Nitrate	10			NA	NA	NA	NA
Perchlorate	0.018	37	43	**40**	**38**	**43**	**40**
Sulfate	250			NA	NA	NA	NA
GENERAL							
Fluoride	4			NA	NA	NA	NA
Nitrite	1			NA	NA	NA	NA
Total Phosphorus				NA	NA	NA	NA
RADIONUCLIDES (reported in pCi/L)							
Alpha (Total)				NA	NA	NA	NA
Adjusted Gross Alpha (Total) MCL [c]	15	0	0	NA	NA	NA	NA
Beta (Total)	50			NA	NA	NA	NA
Uranium 238				NA	NA	NA	NA
Uranium 234				NA	NA	NA	NA
Thorium 230	0.042			NA	NA	NA	NA
Radium 226	5			NA	NA	NA	NA
Radon 222	300			NA	NA	NA	NA
Lead 214				NA	NA	NA	NA
Bismuth 214				NA	NA	NA	NA
Lead 210				NA	NA	NA	NA
Thorium 232	0.14			NA	NA	NA	NA
Radium 228	5			NA	NA	NA	NA
Radium MCL [d]	5	0	0	NA	NA	NA	NA
Actinium-228				NA	NA	NA	NA
Thorium 228	0.11			NA	NA	NA	NA
Lead 212				NA	NA	NA	NA
Bismuth 212				NA	NA	NA	NA
Thallium 208				NA	NA	NA	NA

TABLE 3-19
ANALYTICAL RESULTS FOR WELL M-130
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
RADIONUCLIDES (reported in pCi/L)							
Potassium 40				NA	NA	NA	NA
Uranium 235				NA	NA	NA	NA
Polonium-210				NA	NA	NA	NA
Protactinium-234				NA	NA	NA	NA
Radium-224				NA	NA	NA	NA
Thorium-227				NA	NA	NA	NA
Thorium-234				NA	NA	NA	NA
SOLIDS (reported in mg/L)							
Total Dissolved Solids	1900	5600	6100	**5600**	**6000**	**6100**	**5800**
TOTAL METAL (reported in ug/L)							
Aluminum	50			NA	NA	NA	NA
Antimony	6			NA	NA	NA	NA
Arsenic	10			NA	NA	NA	NA
Barium	2000			NA	NA	NA	NA
Beryllium	4			NA	NA	NA	NA
Cadmium	5			NA	NA	NA	NA
Calcium				NA	NA	NA	NA
Chromium	100			NA	NA	NA	NA
Chromium VI	100	740	820	**740 J-**	**770 J-**	**780**	**800**
Cobalt	10.95			NA	NA	NA	NA
Copper	1300			NA	NA	NA	NA
Iron	300			NA	NA	NA	NA
Lead	15			NA	NA	NA	NA
Lithium	73			NA	NA	NA	NA
Magnesium	206955			NA	NA	NA	NA
Manganese	20			NA	NA	NA	NA
Mercury	2			NA	NA	NA	NA
Molybdenum	182.5			NA	NA	NA	NA
Nickel	730			NA	NA	NA	NA

TABLE 3-19
ANALYTICAL RESULTS FOR WELL M-130
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
TOTAL METAL (reported in ug/L)							
Potassium				NA	NA	NA	NA
Selenium	50			NA	NA	NA	NA
Silicon				NA	NA	NA	NA
Silver	100			NA	NA	NA	NA
Sodium				NA	NA	NA	NA
Thallium	2			NA	NA	NA	NA
Tin	21900			NA	NA	NA	NA
Titanium	146000			NA	NA	NA	NA
Uranium	30	16	21	16	16	21	20
Vanadium	182.5			NA	NA	NA	NA
Zinc	10950			NA	NA	NA	NA
Zirconium				NA	NA	NA	NA
VOLATILES (reported in ug/L)							
1,1,1-Trichloroethane	200			NA	NA	NA	NA
1,1,2-Trichloroethane	5			NA	NA	NA	NA
1,1-Dichloroethane	2.41809			NA	NA	NA	NA
1,1-Dichloroethene	7	1	1	NA	NA	NA	NA
1,2-Dichloroethane	5			NA	NA	NA	NA
1,2-Dichloropropane	5			NA	NA	NA	NA
1,3-Dichlorobenzene	86.7327			NA	NA	NA	NA
2-Butanone	7064.52			NA	NA	NA	NA
4-Methyl-2-Pentanone	1990.91			NA	NA	NA	NA
Acetone	21782.9			NA	NA	NA	NA
Benzene	5	1	1	NA	NA	NA	NA
Bromodichloromethane	0.1173			NA	NA	NA	NA
Bromoform	8.51032			NA	NA	NA	NA
Bromomethane	8.66102			NA	NA	NA	NA
Carbon Disulfide	1042.86			NA	NA	NA	NA
Carbon Tetrachloride	5			NA	NA	NA	NA

TABLE 3-19
ANALYTICAL RESULTS FOR WELL M-130
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
VOLATILES (reported in ug/L)							
Chlorobenzene	100	1	1	NA	NA	NA	NA
Chloroform	0.19279	230	320	**230**	**230**	**320**	**230**
Chloromethane	2.7037			NA	NA	NA	NA
cis-1,2-Dichloroethene	70			NA	NA	NA	NA
Dibromochloromethane	0.14712			NA	NA	NA	NA
Ethylbenzene	700			NA	NA	NA	NA
Methylene Chloride	5			NA	NA	NA	NA
Naphthalene	0.14314			NA	NA	NA	NA
Styrene	100			NA	NA	NA	NA
Tetrachloroethene	5	0.6	2.4	0.71 J	2.4	0.72 J	0.68 J
Toluene	1000	1	1	NA	NA	NA	NA
Total Trihalomethanes [e]	80	230	320	**230**	**230**	**320**	**230**
Trans-1,2-Dichloroethene	100			NA	NA	NA	NA
Trichloroethene	5	1	1	NA	NA	NA	NA
Trichlorofluoromethane	1288.24			NA	NA	NA	NA
Vinyl Chloride	2			NA	NA	NA	NA
Xylene (Total)	10000			NA	NA	NA	NA

TABLE 3-19
ANALYTICAL RESULTS FOR WELL M-130
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012

Notes:

a NDEP BCL are reported in the same unit as analytical group. Source of NDEP BCL's are from May 2012 update. MCL applied where no BCL exists.
b Bolded results exceed the associated screening level.
c MCL for Adjusted Gross Alpha (Total) was calculated using the following equation
Adjusted Gross Alpha (Total) MCL = Alpha Total - (Uranium 234 + Uranium 235 + Uranium 238)
d MCL for Radium was calculated using the following equation: Radium MCL = Radium 226 + Radium 228
e Total Trihalomethanes were calculated using the following equation:
Total Trihalomethanes = Bromodichloromethane + Bromoform + Chloroform + Dibromochloromethane
f Reporting limit exceeds the screening level due to analytical limitations or sample dilution.

Qualifiers:

J Estimated value
U Analyte not detected; the reporting limit is reported in the table
R Rejected data point

+ Biased high
- Biased low
µg/L Microgram per liter
MCL Maximum contaminant level
MDC Minimum detectable concentration
mg/L Milligram per liter
NA Not anaylzed; or not calculated if components are not detected
pCi/L Picocurie per liter
QTR Quarter
SL Screening level

TABLE 3-20
ANALYTICAL RESULTS FOR WELL CMT-101
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
ALKALINITY (reported in mg/L)							
Bicarbonate Alkalinity				NA	NA	NA	NA
ANIONS (reported in mg/L)							
Chloride	4	1900	2500	**2300**	**2300**	**1900**	**1900**
Nitrate	10	9.3	15	**12**	**11**	**9.8**	9.3
Perchlorate	0.018	1.4	1.9	**NA**	1.7	**1.5**	**1.4**
Sulfate	250			NA	NA	NA	NA
GENERAL							
Fluoride	4			NA	NA	NA	NA
Nitrite	1	0.5	2	**1 U**	1 UJ-	1 U	0.5 U
Total Phosphorus				NA	NA	NA	NA
RADIONUCLIDES (reported in pCi/L)							
Alpha (Total)				NA	NA	NA	NA
Adjusted Gross Alpha (Total) MCL [c]	15	0	0	NA	NA	NA	NA
Beta (Total)	50			NA	NA	NA	NA
Uranium 238				NA	NA	NA	NA
Uranium 234				NA	NA	NA	NA
Thorium 230	0.042			NA	NA	NA	NA
Radium 226	5			NA	NA	NA	NA
Radon 222	300			NA	NA	NA	NA
Lead 214				NA	NA	NA	NA
Bismuth 214				NA	NA	NA	NA
Lead 210				NA	NA	NA	NA
Thorium 232	0.14			NA	NA	NA	NA
Radium 228	5			NA	NA	NA	NA
Radium MCL [d]	5	0	0	NA	NA	NA	NA
Actinium-228				NA	NA	NA	NA
Thorium 228	0.11			NA	NA	NA	NA
Lead 212				NA	NA	NA	NA
Bismuth 212				NA	NA	NA	NA
Thallium 208				NA	NA	NA	NA

TABLE 3-20
ANALYTICAL RESULTS FOR WELL CMT-101
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
RADIONUCLIDES (reported in pCi/L)							
Potassium 40				NA	NA	NA	NA
Uranium 235				NA	NA	NA	NA
Polonium-210				NA	NA	NA	NA
Protactinium-234				NA	NA	NA	NA
Radium-224				NA	NA	NA	NA
Thorium-227				NA	NA	NA	NA
Thorium-234				NA	NA	NA	NA
SOLIDS (reported in mg/L)							
Total Dissolved Solids	1900	5200	6800	**6100**	**5800**	**5200**	**5400**
TOTAL METAL (reported in ug/L)							
Aluminum	50			NA	NA	NA	NA
Antimony	6			NA	NA	NA	NA
Arsenic	10			NA	NA	NA	NA
Barium	2000			NA	NA	NA	NA
Beryllium	4			NA	NA	NA	NA
Cadmium	5			NA	NA	NA	NA
Calcium				NA	NA	NA	NA
Chromium	100	100	120	**100**	110	**110**	**100**
Chromium VI	100	120	140	**NA**	130	**130**	**140**
Cobalt	10.95			NA	NA	NA	NA
Copper	1300			NA	NA	NA	NA
Iron	300			NA	NA	NA	NA
Lead	15			NA	NA	NA	NA
Lithium	73			NA	NA	NA	NA
Magnesium	206955			NA	NA	NA	NA
Manganese	20			NA	NA	NA	NA
Mercury	2			NA	NA	NA	NA
Molybdenum	182.5			NA	NA	NA	NA
Nickel	730			NA	NA	NA	NA

TABLE 3-20
ANALYTICAL RESULTS FOR WELL CMT-101
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
TOTAL METAL (reported in ug/L)							
Potassium				NA	NA	NA	NA
Selenium	50			NA	NA	NA	NA
Silicon				NA	NA	NA	NA
Silver	100			NA	NA	NA	NA
Sodium				NA	NA	NA	NA
Thallium	2			NA	NA	NA	NA
Tin	21900			NA	NA	NA	NA
Titanium	146000			NA	NA	NA	NA
Uranium	30	21	27	NA	26	21	22
Vanadium	182.5			NA	NA	NA	NA
Zinc	10950			NA	NA	NA	NA
Zirconium				NA	NA	NA	NA
VOLATILES (reported in ug/L)							
1,1,1-Trichloroethane	200			NA	NA	NA	NA
1,1,2-Trichloroethane	5			NA	NA	NA	NA
1,1-Dichloroethane	2.41809			NA	NA	NA	NA
1,1-Dichloroethene	7	1.3	1.3	NA	NA	NA	NA
1,2-Dichloroethane	5			NA	NA	NA	NA
1,2-Dichloropropane	5			NA	NA	NA	NA
1,3-Dichlorobenzene	86.7327			NA	NA	NA	NA
2-Butanone	7064.52			NA	NA	NA	NA
4-Methyl-2-Pentanone	1990.91			NA	NA	NA	NA
Acetone	21782.9			NA	NA	NA	NA
Benzene	5	1	1	NA	NA	NA	NA
Bromodichloromethane	0.1173			NA	NA	NA	NA
Bromoform	8.51032			NA	NA	NA	NA
Bromomethane	8.66102			NA	NA	NA	NA
Carbon Disulfide	1042.86			NA	NA	NA	NA
Carbon Tetrachloride	5			NA	NA	NA	NA

TABLE 3-20
ANALYTICAL RESULTS FOR WELL CMT-101
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
VOLATILES (reported in ug/L)							
Chlorobenzene	100	1	1	NA	NA	NA	NA
Chloroform	0.19279	280	430	**370**	**280**	**300**	**320 J-**
Chloromethane	2.7037			NA	NA	NA	NA
cis-1,2-Dichloroethene	70			NA	NA	NA	NA
Dibromochloromethane	0.14712			NA	NA	NA	NA
Ethylbenzene	700			NA	NA	NA	NA
Methylene Chloride	5			NA	NA	NA	NA
Naphthalene	0.14314			NA	NA	NA	NA
Styrene	100			NA	NA	NA	NA
Tetrachloroethene	5	1.6	3.6	3.3	1.9	1.6	2.2
Toluene	1000	1	1	NA	NA	NA	NA
Total Trihalomethanes [e]	80	280	430	**370**	**280**	**300**	**320**
Trans-1,2-Dichloroethene	100			NA	NA	NA	NA
Trichloroethene	5	0.47	0.47	NA	NA	NA	NA
Trichlorofluoromethane	1288.24			NA	NA	NA	NA
Vinyl Chloride	2			NA	NA	NA	NA
Xylene (Total)	10000			NA	NA	NA	NA

TABLE 3-20
ANALYTICAL RESULTS FOR WELL CMT-101
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012

Notes:

a NDEP BCL are reported in the same unit as analytical group. Source of NDEP BCL's are from May 2012 update. MCL applied where no BCL exists.
b Bolded results exceed the associated screening level.
c MCL for Adjusted Gross Alpha (Total) was calculated using the following equation
Adjusted Gross Alpha (Total) MCL = Alpha Total - (Uranium 234 + Uranium 235 + Uranium 238)
d MCL for Radium was calculated using the following equation: Radium MCL = Radium 226 + Radium 228
e Total Trihalomethanes were calculated using the following equation:
Total Trihalomethanes = Bromodichloromethane + Bromoform + Chloroform + Dibromochloromethane
f Reporting limit exceeds the screening level due to analytical limitations or sample dilution.

Qualifiers:

J Estimated value
U Analyte not detected; the reporting limit is reported in the table
R Rejected data point

+ Biased high
- Biased low
µg/L Microgram per liter
MCL Maximum contaminant level
MDC Minimum detectable concentration
mg/L Milligram per liter
NA Not anaylzed; or not calculated if components are not detected
pCi/L Picocurie per liter
QTR Quarter
SL Screening level

TABLE 3-21
ANALYTICAL RESULTS FOR WELL TMPZ-105
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
ALKALINITY (reported in mg/L)							
Bicarbonate Alkalinity		150	180	NA	160	NA	150
ANIONS (reported in mg/L)							
Chloride	4	2100	2400	**2100**	**2100**	**2200**	**2100**
Nitrate	10	26	29	**NA**	26	**NA**	27
Perchlorate	0.018	33	39	**37 J+**	**36**	**39**	**38**
Sulfate	250	2000	2200	**NA**	2200	**NA**	2000
GENERAL							
Fluoride	4	1.7	1.8	NA	1.8	NA	1.7
Nitrite	1	1	1	NA	1 U	NA	1 U
Total Phosphorus		0.05	0.11	NA	0.11	NA	0.05 U
RADIONUCLIDES (reported in pCi/L)							
Alpha (Total)		15.1	45.2	NA	31 ± 10.7	NA	15.1 ± 9
Adjusted Gross Alpha (Total) MCL [c]	15	-20.18	-0.42	NA	-13.6	NA	-20.2
Beta (Total)	50	5.5	33.1	NA	28.2 ± 13.3	NA	5.5 ± 13.7 U
Uranium 238		14	19.8	NA	17.8 ± 3	NA	14 ± 2.47
Uranium 234		20.7	27.8	NA	25.9 ± 4.3	NA	20.7 ± 3.59
Thorium 230	0.042	-0.0412	0.129	NA	-0.0315 ± 0.048 U	NA	-0.00846 ± 0.0618 U
Radium 226	5	1.44	2.47	NA	2.16 ± 0.846	NA	1.44 ± 0.596
Radon 222	300	536	1460	**NA**	1460 ± 173	**NA**	537 ± 69.7
Lead 214		-2.81	56.1	NA	-2.81 ± 12.5 UJ-	NA	24 ± 9.98 J-
Bismuth 214		10.1	59.6	NA	10.1 ± 16.7 UJ-	NA	30.3 ± 10.4 J-
Lead 210		0.115	0.115	NA	NA	NA	NA
Thorium 232	0.14	-0.0131	0.0415	NA	-0.00559 ± 0.0127 U	NA	-0.0131 ± 0.0217 U
Radium 228	5	0.452	0.802	NA	0.802 ± 0.381 J	NA	0.452 ± 0.288 U
Radium MCL [d]	5	1.44	3.22	NA	2.96	NA	1.44
Actinium-228		-18.9	23.7	NA	16.7 ± 10.7 J	NA	23.7 ± 9.59 J
Thorium 228	0.11	-0.0267	0.0286	NA	0.0286 ± 0.0547 U	NA	0.0155 ± 0.0952 U
Lead 212		-4.01	1.98	NA	-0.209 ± 7.48 U	NA	-0.543 ± 7.76 U
Bismuth 212		-43.6	49	NA	24.2 ± 38.1 U	NA	23.6 ± 40.9 U
Thallium 208		-0.53	6.18	NA	6.18 ± 2.93 J	NA	3.86 ± 5.52 U

TABLE 3-21
ANALYTICAL RESULTS FOR WELL TMPZ-105
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
RADIONUCLIDES (reported in pCi/L)							
Potassium 40		-36	42.1	NA	42.1 ± 78.4 U	NA	-36 ± 79.8 U
Uranium 235		0.579	1.04	NA	0.874 ± 0.244	NA	0.579 ± 0.208
Polonium-210		0.101	0.101	NA	NA	NA	NA
Protactinium-234		-183	552	NA	81.4 ± 425 U	NA	-183 ± 461 U
Radium-224		-4.01	1.98	NA	-0.209 ± 7.48 U	NA	-0.543 ± 7.76 U
Thorium-227		-2.6	11.8	NA	-2.6 ± 18.4 U	NA	11.8 ± 20.1 U
Thorium-234		4.23	27.5	NA	4.23 ± 80.8 U	NA	9.48 ± 83.1 U
SOLIDS (reported in mg/L)							
Total Dissolved Solids	1900	6900	7900	**6900**	**7400**	**7700**	**7900**
TOTAL METAL (reported in ug/L)							
Aluminum	50	100	620	**NA**	500 U [f]	**NA**	310 J
Antimony	6	15	200	**NA**	100 U [f]	**NA**	15 U [f]
Arsenic	10	230	300	**NA**	250	**NA**	230
Barium	2000	15	22	NA	15 J	NA	16 J
Beryllium	4	0.22	10	**NA**	10 U [f]	**NA**	0.88 U
Cadmium	5	1.6	50	**NA**	25 U [f]	**NA**	1.6 U
Calcium		290000	330000	NA	290000	NA	320000
Chromium	100	790	840	**NA**	840	**NA**	810
Chromium VI	100	890	1000	**890**	**1000 J-**	**940**	**960**
Cobalt	10.95	2.2	100	**NA**	50 U [f]	**NA**	2.2 U
Copper	1300	3	100	NA	50 U	NA	4.8 U
Iron	300	25	1000	**NA**	500 U [f]	**NA**	25 U
Lead	15	2.9	30	**NA**	15 U	NA	7 J
Lithium	73	420	530	**NA**	420	**NA**	420 J
Magnesium	206955	150000	170000	NA	150000	NA	160000
Manganese	20	23	38	**NA**	34 J	**NA**	23 J
Mercury	2	0.0029	0.2	NA	0.2 U	NA	0.0029 U
Molybdenum	182.5	130	170	NA	130	NA	160
Nickel	730	4.7	200	NA	100 U	NA	4.7 U

TABLE 3-21
ANALYTICAL RESULTS FOR WELL TMPZ-105
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
TOTAL METAL (reported in ug/L)							
Potassium		31000	44000	NA	32000	NA	35000 J
Selenium	50	5.9	50	NA	25 U	NA	13 U
Silicon		42000	49000	NA	49000	NA	43000
Silver	100	5.4	100	NA	50 U	NA	5.4 U
Sodium		1700000	1700000	NA	1700000	NA	1700000
Thallium	2	0.07	0.1	NA	0.07 U	NA	0.09 J
Tin	21900	8.2	500	NA	250 U	NA	14 U
Titanium	146000	1	200	NA	100 U	NA	1.4 U
Uranium	30	45	61	**50**	**47**	**46 J**	**45**
Vanadium	182.5	95	120	NA	120	NA	95
Zinc	10950	3.6	200	NA	100 U	NA	3.6 U
Zirconium		2.5	200	NA	100 U	NA	2.5 U
VOLATILES (reported in ug/L)							
1,1,1-Trichloroethane	200	0.3	5	NA	1 U	NA	0.3 U
1,1,2-Trichloroethane	5	0.3	5	NA	1 U	NA	0.3 U
1,1-Dichloroethane	2.41809	0.17	5	NA	0.17 J	NA	0.3 U
1,1-Dichloroethene	7	0.3	5	NA	0.49 J	NA	0.3 U
1,2-Dichloroethane	5	0.17	5	NA	1 U	NA	0.3 U
1,2-Dichloropropane	5	0.3	5	NA	1 U	NA	0.3 U
1,3-Dichlorobenzene	86.7327	0.37	2.8	NA	1.2	NA	0.37 J
2-Butanone	7064.52	3	50	NA	10 U	NA	3 U
4-Methyl-2-Pentanone	1990.91	3	50	NA	10 U	NA	3 U
Acetone	21782.9	6.4	10	NA	10 U	NA	6.4 U
Benzene	5	0.3	5	NA	1 U	NA	0.3 U
Bromodichloromethane	0.1173	0.34	1.1	**NA**	0.64 J	**NA**	0.34 J
Bromoform	8.51032	0.3	5	NA	1 U	NA	0.3 U
Bromomethane	8.66102	0.3	5	NA	1 U	NA	0.3 U
Carbon Disulfide	1042.86	0.3	5	NA	1 U	NA	0.3 U
Carbon Tetrachloride	5	2.9	8.1	**NA**	5.7	**NA**	2.9

TABLE 3-21
ANALYTICAL RESULTS FOR WELL TMPZ-105
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
VOLATILES (reported in ug/L)							
Chlorobenzene	100	0.3	5	NA	1 U	NA	0.3 U
Chloroform	0.19279	450	660	**460**	**540**	**630**	**450**
Chloromethane	2.7037	0.33	5	NA	1 U	NA	0.33 U
cis-1,2-Dichloroethene	70	0.3	5	NA	1 U	NA	0.3 U
Dibromochloromethane	0.14712	0.26	5	**NA**	0.26 J	**NA**	0.3 U [f]
Ethylbenzene	700	0.3	5	NA	1 U	NA	0.3 U
Methylene Chloride	5	0.32	1.2	NA	1 U	NA	0.32 U
Naphthalene	0.14314	0.42	5	**NA**	1 U [f]	**NA**	0.42 U [f]
Styrene	100	0.3	50	NA	1 U	NA	0.3 U
Tetrachloroethene	5	2.4	50	**11**	**5.9**	**5**	2.4
Toluene	1000	0.3	50	NA	1 U	NA	0.3 U
Total Trihalomethanes [e]	80	0.34	660	**460**	**540.9**	**630**	**450.34**
Trans-1,2-Dichloroethene	100	0.3	50	NA	1 U	NA	0.3 U
Trichloroethene	5	0.23	50	**NA**	0.23 J	NA	0.3 U
Trichlorofluoromethane	1288.24	0.3	50	NA	1 U	NA	0.3 U
Vinyl Chloride	2	0.3	50	**NA**	1 U	NA	0.3 U
Xylene (Total)	10000	0.6	100	NA	2 U	NA	0.6 U

TABLE 3-21
ANALYTICAL RESULTS FOR WELL TMPZ-105
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012

Notes:

a NDEP BCL are reported in the same unit as analytical group. Source of NDEP BCL's are from May 2012 update. MCL applied where no BCL exists.
b Bolded results exceed the associated screening level.
c MCL for Adjusted Gross Alpha (Total) was calculated using the following equation
Adjusted Gross Alpha (Total) MCL = Alpha Total - (Uranium 234 + Uranium 235 + Uranium 238)
d MCL for Radium was calculated using the following equation: Radium MCL = Radium 226 + Radium 228
e Total Trihalomethanes were calculated using the following equation:
Total Trihalomethanes = Bromodichloromethane + Bromoform + Chloroform + Dibromochloromethane
f Reporting limit exceeds the screening level due to analytical limitations or sample dilution.

Qualifiers:

J Estimated value
U Analyte not detected; the reporting limit is reported in the table
R Rejected data point

+ Biased high
- Biased low
µg/L Microgram per liter
MCL Maximum contaminant level
MDC Minimum detectable concentration
mg/L Milligram per liter
NA Not anaylzed; or not calculated if components are not detected
pCi/L Picocurie per liter
QTR Quarter
SL Screening level

TABLE 3-22
ANALYTICAL RESULTS FOR WELL TMPZ-106
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
ALKALINITY (reported in mg/L)							
Bicarbonate Alkalinity		190	190	NA	NA	NA	NA
ANIONS (reported in mg/L)							
Chloride	4	1900	3800	**3300**	**2400**	**2200**	**1900**
Nitrate	10	32	32	NA	NA	NA	NA
Perchlorate	0.018	1.7	3.3	**2.8 J+**	**2.3**	**2.1**	**1.7**
Sulfate	250	1400	1400	NA	NA	NA	NA
GENERAL							
Fluoride	4	2.3	2.3	NA	NA	NA	NA
Nitrite	1	1	1	NA	NA	NA	NA
Total Phosphorus		0.14	0.14	NA	NA	NA	NA
RADIONUCLIDES (reported in pCi/L)							
Alpha (Total)		21.9	21.9	NA	NA	NA	NA
Adjusted Gross Alpha (Total) MCL [c]	15	-0.05	-0.05	NA	NA	NA	NA
Beta (Total)	50	18.4	18.4	NA	NA	NA	NA
Uranium 238		9.28	9.28	NA	NA	NA	NA
Uranium 234		12.2	12.2	NA	NA	NA	NA
Thorium 230	0.042	-0.00369	-0.00369	NA	NA	NA	NA
Radium 226	5	0.66	0.66	NA	NA	NA	NA
Radon 222	300	1150	1150	NA	NA	NA	NA
Lead 214		37	37	NA	NA	NA	NA
Bismuth 214		44.1	44.1	NA	NA	NA	NA
Lead 210		0.439	0.439	NA	NA	NA	NA
Thorium 232	0.14	0.00413	0.00413	NA	NA	NA	NA
Radium 228	5	0.398	0.398	NA	NA	NA	NA
Radium MCL [d]	5	0.66	0.66	NA	NA	NA	NA
Actinium-228		17.7	17.7	NA	NA	NA	NA
Thorium 228	0.11	0.0669	0.0669	NA	NA	NA	NA
Lead 212		4.62	4.62	NA	NA	NA	NA
Bismuth 212		54	54	NA	NA	NA	NA
Thallium 208		1.6	1.6	NA	NA	NA	NA

TABLE 3-22
ANALYTICAL RESULTS FOR WELL TMPZ-106
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
RADIONUCLIDES (reported in pCi/L)							
Potassium 40		1.1	1.1	NA	NA	NA	NA
Uranium 235		0.468	0.468	NA	NA	NA	NA
Polonium-210		0.0062	0.0062	NA	NA	NA	NA
Protactinium-234		-208	-208	NA	NA	NA	NA
Radium-224		4.62	4.62	NA	NA	NA	NA
Thorium-227		-7.31	-7.31	NA	NA	NA	NA
Thorium-234		-58.1	-58.1	NA	NA	NA	NA
SOLIDS (reported in mg/L)							
Total Dissolved Solids	1900	5500	9100	**7600**	**6300**	**5700**	**5500**
TOTAL METAL (reported in ug/L)							
Aluminum	50	41	41	NA	NA	NA	NA
Antimony	6	20	20	NA	NA	NA	NA
Arsenic	10	200	200	NA	NA	NA	NA
Barium	2000	31	31	NA	NA	NA	NA
Beryllium	4	0.18	0.18	NA	NA	NA	NA
Cadmium	5	5	5	NA	NA	NA	NA
Calcium		290000	290000	NA	NA	NA	NA
Chromium	100	370	370	NA	NA	NA	NA
Chromium VI	100	280	460	**370**	**330**	**310**	**280**
Cobalt	10.95	4.5	4.5	NA	NA	NA	NA
Copper	1300	10	10	NA	NA	NA	NA
Iron	300	11	11	NA	NA	NA	NA
Lead	15	3	3	NA	NA	NA	NA
Lithium	73	480	480	NA	NA	NA	NA
Magnesium	206955	160000	160000	NA	NA	NA	NA
Manganese	20	41	41	NA	NA	NA	NA
Mercury	2	0.015	0.015	NA	NA	NA	NA
Molybdenum	182.5	170	170	NA	NA	NA	NA
Nickel	730	6.4	6.4	NA	NA	NA	NA

TABLE 3-22
ANALYTICAL RESULTS FOR WELL TMPZ-106
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
TOTAL METAL (reported in ug/L)							
Potassium		24000	24000	NA	NA	NA	NA
Selenium	50	6.8	6.8	NA	NA	NA	NA
Silicon		43000	43000	NA	NA	NA	NA
Silver	100	10	10	NA	NA	NA	NA
Sodium		2100000	2100000	NA	NA	NA	NA
Thallium	2	0.12	0.12	NA	NA	NA	NA
Tin	21900	3.6	3.6	NA	NA	NA	NA
Titanium	146000	20	20	NA	NA	NA	NA
Uranium	30	22	34	**27**	25	24 J	22
Vanadium	182.5	140	140	NA	NA	NA	NA
Zinc	10950	21	21	NA	NA	NA	NA
Zirconium		20	20	NA	NA	NA	NA
VOLATILES (reported in ug/L)							
1,1,1-Trichloroethane	200	5	5	NA	NA	NA	NA
1,1,2-Trichloroethane	5	5	5	NA	NA	NA	NA
1,1-Dichloroethane	2.41809	5	5	NA	NA	NA	NA
1,1-Dichloroethene	7	1	5	NA	NA	NA	NA
1,2-Dichloroethane	5	5	5	NA	NA	NA	NA
1,2-Dichloropropane	5	5	5	NA	NA	NA	NA
1,3-Dichlorobenzene	86.7327	5	5	NA	NA	NA	NA
2-Butanone	7064.52	50	50	NA	NA	NA	NA
4-Methyl-2-Pentanone	1990.91	50	50	NA	NA	NA	NA
Acetone	21782.9			NA	NA	NA	NA
Benzene	5	1	5	NA	NA	NA	NA
Bromodichloromethane	0.1173	2.3	2.3	NA	NA	NA	NA
Bromoform	8.51032	5	5	NA	NA	NA	NA
Bromomethane	8.66102	5	5	NA	NA	NA	NA
Carbon Disulfide	1042.86	5	5	NA	NA	NA	NA
Carbon Tetrachloride	5	12	12	NA	NA	NA	NA

TABLE 3-22
ANALYTICAL RESULTS FOR WELL TMPZ-106
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
VOLATILES (reported in ug/L)							
Chlorobenzene	100	1	5	NA	NA	NA	NA
Chloroform	0.19279	460	890	**600**	**520**	**520**	**460**
Chloromethane	2.7037	5	5	NA	NA	NA	NA
cis-1,2-Dichloroethene	70	5	5	NA	NA	NA	NA
Dibromochloromethane	0.14712	5	5	NA	NA	NA	NA
Ethylbenzene	700	5	5	NA	NA	NA	NA
Methylene Chloride	5	1.3	1.3	NA	NA	NA	NA
Naphthalene	0.14314	5	5	NA	NA	NA	NA
Styrene	100	5	5	NA	NA	NA	NA
Tetrachloroethene	5	0.81	7.1	2.2	2	1.2 J	0.81 J
Toluene	1000	1	5	NA	NA	NA	NA
Total Trihalomethanes [e]	80	2.3	890	**600**	**520**	**520**	**460**
Trans-1,2-Dichloroethene	100	5	5	NA	NA	NA	NA
Trichloroethene	5	0.17	5	NA	NA	NA	NA
Trichlorofluoromethane	1288.24	5	5	NA	NA	NA	NA
Vinyl Chloride	2	5	5	NA	NA	NA	NA
Xylene (Total)	10000	10	10	NA	NA	NA	NA

TABLE 3-22
ANALYTICAL RESULTS FOR WELL TMPZ-106
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012

Notes:

a NDEP BCL are reported in the same unit as analytical group. Source of NDEP BCL's are from May 2012 update. MCL applied where no BCL exists.
b Bolded results exceed the associated screening level.
c MCL for Adjusted Gross Alpha (Total) was calculated using the following equation
Adjusted Gross Alpha (Total) MCL = Alpha Total - (Uranium 234 + Uranium 235 + Uranium 238)
d MCL for Radium was calculated using the following equation: Radium MCL = Radium 226 + Radium 228
e Total Trihalomethanes were calculated using the following equation:
Total Trihalomethanes = Bromodichloromethane + Bromoform + Chloroform + Dibromochloromethane
f Reporting limit exceeds the screening level due to analytical limitations or sample dilution.

Qualifiers:

J Estimated value
U Analyte not detected; the reporting limit is reported in the table
R Rejected data point

+ Biased high
- Biased low
µg/L Microgram per liter
MCL Maximum contaminant level
MDC Minimum detectable concentration
mg/L Milligram per liter
NA Not anaylzed; or not calculated if components are not detected
pCi/L Picocurie per liter
QTR Quarter
SL Screening level

TABLE 3-23
ANALYTICAL RESULTS FOR WELL TMPZ-107
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
ALKALINITY (reported in mg/L)							
Bicarbonate Alkalinity		200	210	NA	210	NA	200
ANIONS (reported in mg/L)							
Chloride	4	6700	8400	**6800**	**7000 J**	**6700**	**7000**
Nitrate	10	67	83	**NA**	74 J	**NA**	67
Perchlorate	0.018	2.6	3.6	**2.8**	**2.6 J**	**2.8**	**3.3**
Sulfate	250	2000	2500	**NA**	2300 J	**NA**	2000
GENERAL							
Fluoride	4	2	2.1	NA	2 U	NA	2 U
Nitrite	1	2	2	**NA**	2 U [f]	**NA**	2 U [f]
Total Phosphorus		0.05	0.16	NA	0.089	NA	0.05 U
RADIONUCLIDES (reported in pCi/L)							
Alpha (Total)		45.7	78	NA	58.4 ± 20.6	NA	55.1 ± 21
Adjusted Gross Alpha (Total) MCL [c]	15	-27.81	-4.29	NA	-4.3	NA	-21.7
Beta (Total)	50	22.2	56.2	NA	22.2 ± 25.1 U	NA	56.2 ± 30.9
Uranium 238		25.8	42.2	NA	25.8 ± 4.21	NA	30.8 ± 7.13
Uranium 234		35.4	57.7	NA	35.4 ± 5.74	NA	44.4 ± 9.48
Thorium 230	0.042	-0.0431	0.103	NA	0.0219 ± 0.0529 U	NA	-0.0216 ± 0.0571 U
Radium 226	5	1.94	2.06	NA	2.06 ± 0.81	NA	1.98 ± 0.685
Radon 222	300	2670	3390	**NA**	3390 ± 391	**NA**	3320 ± 384
Lead 214		4.44	97.2	NA	4.44 ± 10 UJ-	NA	35.8 ± 10.6 J-
Bismuth 214		6.51	93.2	NA	6.51 ± 13 UJ-	NA	36.6 ± 12.5 J-
Lead 210		0.978	0.978	NA	NA	NA	NA
Thorium 232	0.14	0.0032	0.0421	NA	0.0032 ± 0.0141 U	NA	0.016 ± 0.0235 U
Radium 228	5	0.617	1.04	NA	0.954 ± 0.439 J	NA	1.04 ± 0.433
Radium MCL [d]	5	2	3.02	NA	3.01	NA	3.02
Actinium-228		3.47	19	NA	3.47 ± 21.2 U	NA	11.1 ± 8.44 U
Thorium 228	0.11	-0.0251	0.0532	NA	0.0457 ± 0.0379 U	NA	-0.0251 ± 0.0669 U
Lead 212		-0.827	5.22	NA	-0.659 ± 7.04 U	NA	4.68 ± 8.62 U
Bismuth 212		3.69	45.6	NA	21.8 ± 32.4 U	NA	26 ± 23.7 U
Thallium 208		-0.836	4.74	NA	-0.836 ± 5.55 U	NA	1.54 ± 5.56 U

TABLE 3-23
ANALYTICAL RESULTS FOR WELL TMPZ-107
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
RADIONUCLIDES (reported in pCi/L)							
Potassium 40		-6.81	52.1	NA	-6.81 ± 66.3 U	NA	11.3 ± 69.6 U
Uranium 235		1.49	2.51	NA	1.49 ± 0.332	NA	1.64 ± 1.27
Polonium-210		-0.0684	-0.0684	NA	NA	NA	NA
Protactinium-234		185	553	NA	185 ± 392 U	NA	344 ± 362 U
Radium-224		-0.827	5.22	NA	-0.659 ± 7.04 U	NA	4.68 ± 8.62 U
Thorium-227		-15.4	7.93	NA	7.93 ± 16.3 U	NA	-15.4 ± 18.6 U
Thorium-234		-58.8	45.1	NA	14 ± 83.2 U	NA	-58.8 ± 126 U
SOLIDS (reported in mg/L)							
Total Dissolved Solids	1900	15000	19000	**15000**	**16000**	**15000**	**16000**
TOTAL METAL (reported in ug/L)							
Aluminum	50	71	500	**NA**	500 U [f]	**NA**	76 U [f]
Antimony	6	15	100	**NA**	100 U [f]	**NA**	15 U [f]
Arsenic	10	160	180	**NA**	160	**NA**	180
Barium	2000	24	32	NA	24 J	NA	27 J
Beryllium	4	0.57	10	**NA**	10 U [f]	**NA**	0.88 U
Cadmium	5	1.6	25	**NA**	25 U [f]	**NA**	1.6 U
Calcium		720000	1000000	NA	790000 J	NA	720000
Chromium	100	270	310	**NA**	280	**NA**	310
Chromium VI	100	320	400	**320**	**330**	**330**	**360**
Cobalt	10.95	2.1	50	**NA**	50 U [f]	**NA**	2.2 U
Copper	1300	1.8	50	NA	50 U	NA	4.8 U
Iron	300	25	500	NA	500 U [f]	**NA**	25 U
Lead	15	3	15	NA	15 U	NA	6.4 U
Lithium	73	520	790	**NA**	520	**NA**	630
Magnesium	206955	580000	740000	**NA**	590000 J	**NA**	580000
Manganese	20	150	180	**NA**	170	**NA**	150
Mercury	2	0.0068	0.2	NA	0.2 U	NA	0.0068 J
Molybdenum	182.5	290	360	**NA**	320	**NA**	360
Nickel	730	2.2	100	NA	100 U	NA	4.7 U

TABLE 3-23
ANALYTICAL RESULTS FOR WELL TMPZ-107
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
TOTAL METAL (reported in ug/L)							
Potassium		32000	58000	NA	32000 J	NA	39000
Selenium	50	5.5	25	NA	25 U	NA	13 U
Silicon		40000	47000	NA	46000	NA	47000
Silver	100	2.8	50	NA	50 U	NA	5.4 U
Sodium		3000000	3600000	NA	3100000 J	NA	3400000
Thallium	2	0.08	0.16	NA	0.13 U	NA	0.08 J
Tin	21900	5.1	250	NA	250 U	NA	14 U
Titanium	146000	1.4	100	NA	100 U	NA	1.4 U
Uranium	30	75	150	**75**	**78**	**86 J**	**88**
Vanadium	182.5	56	69	NA	66	NA	69
Zinc	10950	3.6	100	NA	100 U	NA	3.6 U
Zirconium		2.5	20	NA	5.8 U	NA	2.5 U
VOLATILES (reported in ug/L)							
1,1,1-Trichloroethane	200	0.3	50	NA	1 U	NA	0.3 U
1,1,2-Trichloroethane	5	0.3	50	NA	1 U	NA	0.3 U
1,1-Dichloroethane	2.41809	0.26	50	NA	0.26 J	NA	0.3 J
1,1-Dichloroethene	7	0.56	50	NA	0.56 J	NA	0.7 J
1,2-Dichloroethane	5	0.2	50	NA	0.2 J	NA	0.3 U
1,2-Dichloropropane	5	0.18	50	NA	0.18 J	NA	0.3 U
1,3-Dichlorobenzene	86.7327	0.3	50	NA	1 U	NA	0.3 U
2-Butanone	7064.52	3	500	NA	10 U	NA	3 U
4-Methyl-2-Pentanone	1990.91	3	500	NA	10 U	NA	3 U
Acetone	21782.9	6.4	10	NA	10 U	NA	6.4 U
Benzene	5	0.3	50	NA	1 U	NA	0.3 U
Bromodichloromethane	0.1173	0.83	50	**NA**	0.83 J	**NA**	2.1
Bromoform	8.51032	0.3	50	NA	1 U	NA	0.3 U
Bromomethane	8.66102	0.3	50	NA	1 U	NA	0.3 U
Carbon Disulfide	1042.86	0.3	50	NA	1 U	NA	0.3 U
Carbon Tetrachloride	5	8	50	**NA**	8.4	**NA**	8

TABLE 3-23
ANALYTICAL RESULTS FOR WELL TMPZ-107
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
VOLATILES (reported in ug/L)							
Chlorobenzene	100	0.3	50	NA	1 U	NA	0.3 U
Chloroform	0.19279	1000	1600	**1200**	**1200**	**1100**	**1000**
Chloromethane	2.7037	0.33	50	NA	1 U	NA	0.33 U
cis-1,2-Dichloroethene	70	0.3	50	NA	1 U	NA	0.3 U
Dibromochloromethane	0.14712	0.2	50	**NA**	1 U [f]	**NA**	0.48 J
Ethylbenzene	700	0.3	50	NA	1 U	NA	0.3 U
Methylene Chloride	5	0.24	53	NA	0.24 U	NA	0.32 U
Naphthalene	0.14314	0.42	50	**NA**	1 U [f]	**NA**	0.42 U [f]
Styrene	100	0.3	50	NA	1 U	NA	0.3 U
Tetrachloroethene	5	1.2	50	3	3.9	1.2 J	2.1
Toluene	1000	0.3	50	NA	1 U	NA	0.3 U
Total Trihalomethanes [e]	80	0.83	1600	**1200**	**1200.83**	**1100**	**1002.58**
Trans-1,2-Dichloroethene	100	0.3	50	NA	1 U	NA	0.3 U
Trichloroethene	5	0.3	50	NA	0.3 J	NA	0.3 U
Trichlorofluoromethane	1288.24	0.3	50	NA	1 U	NA	0.3 U
Vinyl Chloride	2	0.3	50	NA	1 U	NA	0.3 U
Xylene (Total)	10000	0.6	100	NA	2 U	NA	0.6 U

TABLE 3-23
ANALYTICAL RESULTS FOR WELL TMPZ-107
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012

Notes:

a NDEP BCL are reported in the same unit as analytical group. Source of NDEP BCL's are from May 2012 update. MCL applied where no BCL exists.
b Bolded results exceed the associated screening level.
c MCL for Adjusted Gross Alpha (Total) was calculated using the following equation
Adjusted Gross Alpha (Total) MCL = Alpha Total - (Uranium 234 + Uranium 235 + Uranium 238)
d MCL for Radium was calculated using the following equation: Radium MCL = Radium 226 + Radium 228
e Total Trihalomethanes were calculated using the following equation:
Total Trihalomethanes = Bromodichloromethane + Bromoform + Chloroform + Dibromochloromethane
f Reporting limit exceeds the screening level due to analytical limitations or sample dilution.

Qualifiers:

J Estimated value
U Analyte not detected; the reporting limit is reported in the table
R Rejected data point

+ Biased high
- Biased low
µg/L Microgram per liter
MCL Maximum contaminant level
MDC Minimum detectable concentration
mg/L Milligram per liter
NA Not anaylzed; or not calculated if components are not detected
pCi/L Picocurie per liter
QTR Quarter
SL Screening level

TABLE 3-24
ANALYTICAL RESULTS FOR WELL TMPZ-108
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
ALKALINITY (reported in mg/L)							
Bicarbonate Alkalinity		150	150	NA	NA	NA	NA
ANIONS (reported in mg/L)							
Chloride	4	4700	7400	**5900**	**5200**	**5200**	**4700**
Nitrate	10	32	23000	NA	NA	NA	NA
Perchlorate	0.018	2.6	3.2	**2.9**	**2.6**	**2.7**	**3.1**
Sulfate	250	3600	3600	NA	NA	NA	NA
GENERAL							
Fluoride	4	2	2	NA	NA	NA	NA
Nitrite	1	2	2000	NA	NA	NA	NA
Total Phosphorus		0.13	0.13	NA	NA	NA	NA
RADIONUCLIDES (reported in pCi/L)							
Alpha (Total)		90.6	90.6	NA	NA	NA	NA
Adjusted Gross Alpha (Total) MCL [c]	15	-49.1	-49.1	NA	NA	NA	NA
Beta (Total)	50	41.2	41.2	NA	NA	NA	NA
Uranium 238		60.2	60.2	NA	NA	NA	NA
Uranium 234		76.9	76.9	NA	NA	NA	NA
Thorium 230	0.042	-0.0646	-0.0646	NA	NA	NA	NA
Radium 226	5	0.926	0.926	NA	NA	NA	NA
Radon 222	300	2290	2290	NA	NA	NA	NA
Lead 214		553	553	NA	NA	NA	NA
Bismuth 214		535	535	NA	NA	NA	NA
Lead 210		0.753	0.753	NA	NA	NA	NA
Thorium 232	0.14	0.0478	0.0478	NA	NA	NA	NA
Radium 228	5	0.99	0.99	NA	NA	NA	NA
Radium MCL [d]	5	1.92	1.92	NA	NA	NA	NA
Actinium-228		25.2	25.2	NA	NA	NA	NA
Thorium 228	0.11	0.0145	0.0145	NA	NA	NA	NA
Lead 212		2.17	2.17	NA	NA	NA	NA
Bismuth 212		-18.1	-18.1	NA	NA	NA	NA
Thallium 208		2.59	2.59	NA	NA	NA	NA

TABLE 3-24
ANALYTICAL RESULTS FOR WELL TMPZ-108
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
RADIONUCLIDES (reported in pCi/L)							
Potassium 40		-16.5	-16.5	NA	NA	NA	NA
Uranium 235		2.6	2.6	NA	NA	NA	NA
Polonium-210		-0.00216	-0.00216	NA	NA	NA	NA
Protactinium-234		227	227	NA	NA	NA	NA
Radium-224		2.17	2.17	NA	NA	NA	NA
Thorium-227		-5.2	-5.2	NA	NA	NA	NA
Thorium-234		25.6	25.6	NA	NA	NA	NA
SOLIDS (reported in mg/L)							
Total Dissolved Solids	1900	14000	18000	**16000**	**16000**	**14000**	**14000**
TOTAL METAL (reported in ug/L)							
Aluminum	50	560	560	NA	NA	NA	NA
Antimony	6	20	20	NA	NA	NA	NA
Arsenic	10	190	190	NA	NA	NA	NA
Barium	2000	16	16	NA	NA	NA	NA
Beryllium	4	0.55	0.55	NA	NA	NA	NA
Cadmium	5	5	5	NA	NA	NA	NA
Calcium		1000000	1000000	NA	NA	NA	NA
Chromium	100	370	370	NA	NA	NA	NA
Chromium VI	100	350	520	**390**	**380 J-**	**360**	**350**
Cobalt	10.95	10	10	NA	NA	NA	NA
Copper	1300	2.2	2.2	NA	NA	NA	NA
Iron	300	360	360	NA	NA	NA	NA
Lead	15	3	3	NA	NA	NA	NA
Lithium	73	960	960	NA	NA	NA	NA
Magnesium	206955	440000	440000	NA	NA	NA	NA
Manganese	20	12	12	NA	NA	NA	NA
Mercury	2	0.029	0.029	NA	NA	NA	NA
Molybdenum	182.5	260	260	NA	NA	NA	NA
Nickel	730	2.3	2.3	NA	NA	NA	NA

TABLE 3-24
ANALYTICAL RESULTS FOR WELL TMPZ-108
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
TOTAL METAL (reported in ug/L)							
Potassium		62000	62000	NA	NA	NA	NA
Selenium	50	7.4	7.4	NA	NA	NA	NA
Silicon		36000	36000	NA	NA	NA	NA
Silver	100	4.1	4.1	NA	NA	NA	NA
Sodium		3900000	3900000	NA	NA	NA	NA
Thallium	2	0.059	0.059	NA	NA	NA	NA
Tin	21900	8.3	8.3	NA	NA	NA	NA
Titanium	146000	19	19	NA	NA	NA	NA
Uranium	30	88	200	**140**	**130**	**110**	**88**
Vanadium	182.5	52	52	NA	NA	NA	NA
Zinc	10950	47	47	NA	NA	NA	NA
Zirconium		20	20	NA	NA	NA	NA
VOLATILES (reported in ug/L)							
1,1,1-Trichloroethane	200	20	20	NA	NA	NA	NA
1,1,2-Trichloroethane	5	20	20	NA	NA	NA	NA
1,1-Dichloroethane	2.41809	20	20	NA	NA	NA	NA
1,1-Dichloroethene	7	3.5	20	NA	NA	NA	NA
1,2-Dichloroethane	5	20	20	NA	NA	NA	NA
1,2-Dichloropropane	5	20	20	NA	NA	NA	NA
1,3-Dichlorobenzene	86.7327	20	20	NA	NA	NA	NA
2-Butanone	7064.52	200	200	NA	NA	NA	NA
4-Methyl-2-Pentanone	1990.91	200	200	NA	NA	NA	NA
Acetone	21782.9			NA	NA	NA	NA
Benzene	5	1	20	NA	NA	NA	NA
Bromodichloromethane	0.1173	20	20	NA	NA	NA	NA
Bromoform	8.51032	20	20	NA	NA	NA	NA
Bromomethane	8.66102	20	20	NA	NA	NA	NA
Carbon Disulfide	1042.86	20	20	NA	NA	NA	NA
Carbon Tetrachloride	5	20	20	NA	NA	NA	NA

TABLE 3-24
ANALYTICAL RESULTS FOR WELL TMPZ-108
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
VOLATILES (reported in ug/L)							
Chlorobenzene	100	1	20	NA	NA	NA	NA
Chloroform	0.19279	610	700	**630**	**640**	**640**	**640**
Chloromethane	2.7037	20	20	NA	NA	NA	NA
cis-1,2-Dichloroethene	70	20	20	NA	NA	NA	NA
Dibromochloromethane	0.14712	20	20	NA	NA	NA	NA
Ethylbenzene	700	20	20	NA	NA	NA	NA
Methylene Chloride	5	20	20	NA	NA	NA	NA
Naphthalene	0.14314	20	20	NA	NA	NA	NA
Styrene	100	20	20	NA	NA	NA	NA
Tetrachloroethene	5	44	70	**70**	**61**	**59**	**44**
Toluene	1000	1	20	NA	NA	NA	NA
Total Trihalomethanes [e]	80	610	700	**630**	**640**	**640**	**640**
Trans-1,2-Dichloroethene	100	20	20	NA	NA	NA	NA
Trichloroethene	5	3.8	4.9	NA	NA	NA	NA
Trichlorofluoromethane	1288.24	20	20	NA	NA	NA	NA
Vinyl Chloride	2	20	20	NA	NA	NA	NA
Xylene (Total)	10000	40	40	NA	NA	NA	NA

TABLE 3-24
ANALYTICAL RESULTS FOR WELL TMPZ-108
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012

Notes:

a NDEP BCL are reported in the same unit as analytical group. Source of NDEP BCL's are from May 2012 update. MCL applied where no BCL exists.
b Bolded results exceed the associated screening level.
c MCL for Adjusted Gross Alpha (Total) was calculated using the following equation
Adjusted Gross Alpha (Total) MCL = Alpha Total - (Uranium 234 + Uranium 235 + Uranium 238)
d MCL for Radium was calculated using the following equation: Radium MCL = Radium 226 + Radium 228
e Total Trihalomethanes were calculated using the following equation:
Total Trihalomethanes = Bromodichloromethane + Bromoform + Chloroform + Dibromochloromethane
f Reporting limit exceeds the screening level due to analytical limitations or sample dilution.

Qualifiers:

J Estimated value
U Analyte not detected; the reporting limit is reported in the table
R Rejected data point

+ Biased high
- Biased low
µg/L Microgram per liter
MCL Maximum contaminant level
MDC Minimum detectable concentration
mg/L Milligram per liter
NA Not anaylzed; or not calculated if components are not detected
pCi/L Picocurie per liter
QTR Quarter
SL Screening level

TABLE 3-25
ANALYTICAL RESULTS FOR WELL TMPZ-109
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
ALKALINITY (reported in mg/L)							
Bicarbonate Alkalinity		92	92	NA	NA	NA	NA
ANIONS (reported in mg/L)							
Chloride	4	1500	2100	**1600**	**1600**	**1600**	**1600**
Nitrate	10	44	44	NA	NA	NA	NA
Perchlorate	0.018	0.64	1	**0.8**	**0.69**	**0.68**	**0.64**
Sulfate	250	1900	1900	NA	NA	NA	NA
GENERAL							
Fluoride	4	1.3	1.3	NA	NA	NA	NA
Nitrite	1	1	1	NA	NA	NA	NA
Total Phosphorus		0.05	0.05	NA	NA	NA	NA
RADIONUCLIDES (reported in pCi/L)							
Alpha (Total)		31	31	NA	NA	NA	NA
Adjusted Gross Alpha (Total) MCL [c]	15	-7.21	-7.21	NA	NA	NA	NA
Beta (Total)	50	24.9	24.9	NA	NA	NA	NA
Uranium 238		15.4	15.4	NA	NA	NA	NA
Uranium 234		21.9	21.9	NA	NA	NA	NA
Thorium 230	0.042	0.0512	0.0512	NA	NA	NA	NA
Radium 226	5	1.5	1.5	NA	NA	NA	NA
Radon 222	300	1960	1960	NA	NA	NA	NA
Lead 214		488	488	NA	NA	NA	NA
Bismuth 214		441	441	NA	NA	NA	NA
Lead 210		0.897	0.897	NA	NA	NA	NA
Thorium 232	0.14	0.0384	0.0384	NA	NA	NA	NA
Radium 228	5	0.926	0.926	NA	NA	NA	NA
Radium MCL [d]	5	2.43	2.43	NA	NA	NA	NA
Actinium-228		19.3	19.3	NA	NA	NA	NA
Thorium 228	0.11	0.0918	0.0918	NA	NA	NA	NA
Lead 212		6.78	6.78	NA	NA	NA	NA
Bismuth 212		10.1	10.1	NA	NA	NA	NA
Thallium 208		6.72	6.72	NA	NA	NA	NA

TABLE 3-25
ANALYTICAL RESULTS FOR WELL TMPZ-109
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
RADIONUCLIDES (reported in pCi/L)							
Potassium 40		0.688	0.688	NA	NA	NA	NA
Uranium 235		0.906	0.906	NA	NA	NA	NA
Polonium-210		0.0299	0.0299	NA	NA	NA	NA
Protactinium-234		208	208	NA	NA	NA	NA
Radium-224		6.78	6.78	NA	NA	NA	NA
Thorium-227		9.35	9.35	NA	NA	NA	NA
Thorium-234		24	24	NA	NA	NA	NA
SOLIDS (reported in mg/L)							
Total Dissolved Solids	1900	5400	6200	**5600**	**5400**	**5700**	**6000**
TOTAL METAL (reported in ug/L)							
Aluminum	50	280	280	NA	NA	NA	NA
Antimony	6	20	20	NA	NA	NA	NA
Arsenic	10	98	98	NA	NA	NA	NA
Barium	2000	29	29	NA	NA	NA	NA
Beryllium	4	0.7	0.7	NA	NA	NA	NA
Cadmium	5	5	5	NA	NA	NA	NA
Calcium		800000	800000	NA	NA	NA	NA
Chromium	100	37	37	NA	NA	NA	NA
Chromium VI	100	43	47	47	45 J-	43	43
Cobalt	10.95	4.9	4.9	NA	NA	NA	NA
Copper	1300	10	10	NA	NA	NA	NA
Iron	300	170	170	NA	NA	NA	NA
Lead	15	3	3	NA	NA	NA	NA
Lithium	73	450	450	NA	NA	NA	NA
Magnesium	206955	370000	370000	NA	NA	NA	NA
Manganese	20	3.9	3.9	NA	NA	NA	NA
Mercury	2	0.023	0.023	NA	NA	NA	NA
Molybdenum	182.5	31	31	NA	NA	NA	NA
Nickel	730	1.8	1.8	NA	NA	NA	NA

TABLE 3-25
ANALYTICAL RESULTS FOR WELL TMPZ-109
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
TOTAL METAL (reported in ug/L)							
Potassium		23000	23000	NA	NA	NA	NA
Selenium	50	7.7	7.7	NA	NA	NA	NA
Silicon		40000	40000	NA	NA	NA	NA
Silver	100	0.83	0.83	NA	NA	NA	NA
Sodium		720000	720000	NA	NA	NA	NA
Thallium	2	0.026	0.026	NA	NA	NA	NA
Tin	21900	50	50	NA	NA	NA	NA
Titanium	146000	6.1	6.1	NA	NA	NA	NA
Uranium	30	42	52	**48**	**45**	**44**	**42**
Vanadium	182.5	46	46	NA	NA	NA	NA
Zinc	10950	17	17	NA	NA	NA	NA
Zirconium		20	20	NA	NA	NA	NA
VOLATILES (reported in ug/L)							
1,1,1-Trichloroethane	200	2	2	NA	NA	NA	NA
1,1,2-Trichloroethane	5	2	2	NA	NA	NA	NA
1,1-Dichloroethane	2.41809	2	2	NA	NA	NA	NA
1,1-Dichloroethene	7	0.52	0.74	NA	NA	NA	NA
1,2-Dichloroethane	5	2	2	NA	NA	NA	NA
1,2-Dichloropropane	5	2	2	NA	NA	NA	NA
1,3-Dichlorobenzene	86.7327	2	2	NA	NA	NA	NA
2-Butanone	7064.52	20	20	NA	NA	NA	NA
4-Methyl-2-Pentanone	1990.91	20	20	NA	NA	NA	NA
Acetone	21782.9			NA	NA	NA	NA
Benzene	5	1	2	NA	NA	NA	NA
Bromodichloromethane	0.1173	2	2	NA	NA	NA	NA
Bromoform	8.51032	2	2	NA	NA	NA	NA
Bromomethane	8.66102	2	2	NA	NA	NA	NA
Carbon Disulfide	1042.86	2	2	NA	NA	NA	NA
Carbon Tetrachloride	5	1.9	1.9	NA	NA	NA	NA

TABLE 3-25
ANALYTICAL RESULTS FOR WELL TMPZ-109
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
VOLATILES (reported in ug/L)							
Chlorobenzene	100	1	2	NA	NA	NA	NA
Chloroform	0.19279	55	63	**63**	**55**	**61**	**59**
Chloromethane	2.7037	2	2	NA	NA	NA	NA
cis-1,2-Dichloroethene	70	2	2	NA	NA	NA	NA
Dibromochloromethane	0.14712	2	2	NA	NA	NA	NA
Ethylbenzene	700	2	2	NA	NA	NA	NA
Methylene Chloride	5	2	2	NA	NA	NA	NA
Naphthalene	0.14314	2	2	NA	NA	NA	NA
Styrene	100	2	2	NA	NA	NA	NA
Tetrachloroethene	5	34	51	**39**	**44**	**51**	**43**
Toluene	1000	0.53	1	NA	NA	NA	NA
Total Trihalomethanes [e]	80	55	63	63	55	61	59
Trans-1,2-Dichloroethene	100	2	2	NA	NA	NA	NA
Trichloroethene	5	8.2	9	**NA**	NA	NA	NA
Trichlorofluoromethane	1288.24	2	2	NA	NA	NA	NA
Vinyl Chloride	2	2	2	NA	NA	NA	NA
Xylene (Total)	10000	4	4	NA	NA	NA	NA

TABLE 3-25
ANALYTICAL RESULTS FOR WELL TMPZ-109
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012

Notes:

a NDEP BCL are reported in the same unit as analytical group. Source of NDEP BCL's are from May 2012 update. MCL applied where no BCL exists.
b Bolded results exceed the associated screening level.
c MCL for Adjusted Gross Alpha (Total) was calculated using the following equation
Adjusted Gross Alpha (Total) MCL = Alpha Total - (Uranium 234 + Uranium 235 + Uranium 238)
d MCL for Radium was calculated using the following equation: Radium MCL = Radium 226 + Radium 228
e Total Trihalomethanes were calculated using the following equation:
Total Trihalomethanes = Bromodichloromethane + Bromoform + Chloroform + Dibromochloromethane
f Reporting limit exceeds the screening level due to analytical limitations or sample dilution.

Qualifiers:

J Estimated value
U Analyte not detected; the reporting limit is reported in the table
R Rejected data point

+ Biased high
- Biased low
µg/L Microgram per liter
MCL Maximum contaminant level
MDC Minimum detectable concentration
mg/L Milligram per liter
NA Not anaylzed; or not calculated if components are not detected
pCi/L Picocurie per liter
QTR Quarter
SL Screening level

TABLE 3-26
ANALYTICAL RESULTS FOR WELL TMPZ-110
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
ALKALINITY (reported in mg/L)							
Bicarbonate Alkalinity		130	150	NA	130	NA	150
ANIONS (reported in mg/L)							
Chloride	4	930	1200	**930**	**1100**	**930**	**1100**
Nitrate	10	7.4	9.5	NA	9.5	NA	7.4
Perchlorate	0.018	1.6	3.3	**1.8**	**2**	**1.6**	**1.8**
Sulfate	250	2200	2300	**NA**	2200	**NA**	2200
GENERAL							
Fluoride	4	1.3	1.4	NA	1.3	NA	1.4
Nitrite	1	0.5	0.5	NA	0.5 UJ-	NA	0.5 U
Total Phosphorus		0.05	0.064	NA	0.05 U	NA	0.05 U
RADIONUCLIDES (reported in pCi/L)							
Alpha (Total)		28.5	105	NA	28.5 ± 10.1	NA	52.5 ± 12.8
Adjusted Gross Alpha (Total) MCL [c]	15	-68.1	-28.2	NA	-54.6	NA	-37.5
Beta (Total)	50	13.9	39.5	NA	22.7 ± 13.4	NA	35.4 ± 13.5
Uranium 238		27.2	73.3	NA	34.8 ± 6.01	NA	37.2 ± 6.31
Uranium 234		36.4	96.4	NA	46.9 ± 8.04	NA	51.2 ± 8.63
Thorium 230	0.042	-0.08	0.037	NA	0.037 ± 0.0663 U	NA	-0.031 ± 0.0584 U
Radium 226	5	0.541	2.15	NA	0.541 ± 0.396 J	NA	2.15 ± 0.767
Radon 222	300	200	1500	**NA**	896 ± 109	**NA**	1500 ± 178
Lead 214		1.38	127	NA	12.6 ± 10.2 UJ-	NA	127 ± 18.2 J-
Bismuth 214		8.76	121	NA	18.2 ± 13.1 UJ-	NA	121 ± 18.9 J-
Lead 210		0.276	0.276	NA	NA	NA	NA
Thorium 232	0.14	-0.0105	0.0429	NA	0.00361 ± 0.0235 U	NA	0.0217 ± 0.0255 U
Radium 228	5	0.238	0.703	NA	0.703 ± 0.374 J+	NA	0.404 ± 0.298 U
Radium MCL [d]	5	0.61	2.15	NA	1.24	NA	2.15
Actinium-228		9.26	13.6	NA	11.6 ± 10.9 U	NA	9.26 ± 10.5 U
Thorium 228	0.11	-0.0649	0.0797	NA	0.0345 ± 0.0607 U	NA	-0.0649 ± 0.0845 U
Lead 212		-0.36	3.39	NA	0.188 ± 6.95 U	NA	1.29 ± 6.4 U
Bismuth 212		19.5	38	NA	19.5 ± 31.5 U	NA	30.3 ± 34.3 U
Thallium 208		2.08	4.86	NA	3.73 ± 2.59 U	NA	4.14 ± 2.61

TABLE 3-26
ANALYTICAL RESULTS FOR WELL TMPZ-110
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
RADIONUCLIDES (reported in pCi/L)							
Potassium 40		-43.4	55.5	NA	1.82 ± 65.8 U	NA	-43.4 ± 67.6 U
Uranium 235		1.2	3.4	NA	1.45 ± 0.397	NA	1.63 ± 0.408
Polonium-210		0.0965	0.0965	NA	NA	NA	NA
Protactinium-234		134	377	NA	196 ± 405 U	NA	206 ± 413 U
Radium-224		-0.36	3.39	NA	0.188 ± 6.95 U	NA	1.29 ± 6.4 U
Thorium-227		-10.8	1.2	NA	-7.45 ± 11.2 U	NA	-10.8 ± 12.8 U
Thorium-234		-30.4	17.4	NA	14.9 ± 77.3 U	NA	-30.4 ± 74.1 U
SOLIDS (reported in mg/L)							
Total Dissolved Solids	1900	4900	5800	**4900**	**5500**	**4900**	**5800**
TOTAL METAL (reported in ug/L)							
Aluminum	50	76	390	**NA**	140 U [f]	**NA**	76 U [f]
Antimony	6	15	100	**NA**	100 U [f]	**NA**	15 U [f]
Arsenic	10	51	58	**NA**	58	**NA**	55
Barium	2000	13	24	NA	13 J	NA	14 J
Beryllium	4	0.55	10	**NA**	1.4 U	NA	0.88 U
Cadmium	5	1.6	25	**NA**	25 U [f]	**NA**	1.6 U
Calcium		630000	680000	NA	650000	NA	680000
Chromium	100	4.3	14	NA	12 J	NA	4.3 J
Chromium VI	100	12	32	31	15 J-	32	12
Cobalt	10.95	2.2	50	**NA**	50 U [f]	**NA**	2.2 U
Copper	1300	1.4	50	NA	50 U	NA	4.8 U
Iron	300	25	500	**NA**	500 U [f]	**NA**	25 U
Lead	15	1.6	15	NA	15 U	NA	6.4 U
Lithium	73	310	470	**NA**	310 J	**NA**	340 J
Magnesium	206955	280000	310000	**NA**	280000	**NA**	300000
Manganese	20	0.57	17	NA	1.2 J	NA	0.57 U
Mercury	2	0.014	0.2	NA	0.2 U	NA	0.042 J
Molybdenum	182.5	15	25	NA	17 J	NA	19 J
Nickel	730	3.2	100	NA	100 U	NA	4.7 U

TABLE 3-26
ANALYTICAL RESULTS FOR WELL TMPZ-110
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
TOTAL METAL (reported in ug/L)							
Potassium		8000	14000	NA	8600	NA	10000 J+
Selenium	50	13	25	NA	25 U	NA	13 U
Silicon		39000	48000	NA	44000	NA	48000
Silver	100	5.4	50	NA	50 U	NA	5.4 U
Sodium		460000	580000	NA	560000	NA	580000
Thallium	2	0.02	0.2	NA	0.06 U	NA	0.02 J
Tin	21900	4.4	250	NA	250 U	NA	14 U
Titanium	146000	1.4	100	NA	100 U	NA	1.4 U
Uranium	30	62	250	**63**	**97**	**62**	**110**
Vanadium	182.5	42	44	NA	44 J	NA	42 J
Zinc	10950	3.6	140	NA	18 J	NA	3.6 U
Zirconium		2.5	20	NA	4.6 U	NA	2.5 U
VOLATILES (reported in ug/L)							
1,1,1-Trichloroethane	200	0.3	1	NA	1 U	NA	0.3 U
1,1,2-Trichloroethane	5	0.3	1	NA	1 U	NA	0.3 U
1,1-Dichloroethane	2.41809	0.18	0.32	NA	0.22 J	NA	0.3 U
1,1-Dichloroethene	7	1.1	2.9	NA	1.9	NA	1.6
1,2-Dichloroethane	5	0.3	1	NA	1 U	NA	0.3 U
1,2-Dichloropropane	5	0.3	1	NA	1 U	NA	0.3 U
1,3-Dichlorobenzene	86.7327	0.3	1	NA	1 U	NA	0.3 U
2-Butanone	7064.52	3	10	NA	10 U	NA	3 U
4-Methyl-2-Pentanone	1990.91	3	10	NA	10 U	NA	3 U
Acetone	21782.9	6.4	10	NA	10 U	NA	6.4 U
Benzene	5	0.3	1	NA	1 U	NA	0.3 U
Bromodichloromethane	0.1173	0.3	1	**NA**	1 U [f]	**NA**	0.3 U [f]
Bromoform	8.51032	0.3	1	NA	1 U	NA	0.3 U
Bromomethane	8.66102	0.3	1	NA	1 U	NA	0.3 U
Carbon Disulfide	1042.86	0.3	1	NA	1 U	NA	0.3 U
Carbon Tetrachloride	5	0.18	1	NA	1 U	NA	0.3 U

TABLE 3-26
ANALYTICAL RESULTS FOR WELL TMPZ-110
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
VOLATILES (reported in ug/L)							
Chlorobenzene	100	0.3	1	NA	1 U	NA	0.3 U
Chloroform	0.19279	11	16	**16 J+**	**11**	**15**	**12**
Chloromethane	2.7037	0.33	1	NA	1 U	NA	0.33 U
cis-1,2-Dichloroethene	70	0.3	1	NA	1 U	NA	0.3 U
Dibromochloromethane	0.14712	0.3	1	**NA**	1 U [f]	**NA**	0.3 U [f]
Ethylbenzene	700	0.3	1	NA	1 U	NA	0.3 U
Methylene Chloride	5	0.32	1	NA	1 U	NA	0.32 U
Naphthalene	0.14314	0.19	1	**NA**	1 U [f]	**NA**	0.42 U [f]
Styrene	100	0.3	1	NA	1 U	NA	0.3 U
Tetrachloroethene	5	12	26	**26 J+**	**20**	**26**	**22**
Toluene	1000	0.3	1	NA	1 U	NA	0.3 U
Total Trihalomethanes [e]	80	11	16	16	11	15	12
Trans-1,2-Dichloroethene	100	0.3	1	NA	1 U	NA	0.3 U
Trichloroethene	5	0.24	0.47	NA	0.34 J	NA	0.44 J
Trichlorofluoromethane	1288.24	0.3	1	NA	1 U	NA	0.3 U
Vinyl Chloride	2	0.3	1	NA	1 U	NA	0.3 U
Xylene (Total)	10000	0.6	2	NA	2 U	NA	0.6 U

TABLE 3-26
ANALYTICAL RESULTS FOR WELL TMPZ-110
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012

Notes:

a NDEP BCL are reported in the same unit as analytical group. Source of NDEP BCL's are from May 2012 update. MCL applied where no BCL exists.
b Bolded results exceed the associated screening level.
c MCL for Adjusted Gross Alpha (Total) was calculated using the following equation
Adjusted Gross Alpha (Total) MCL = Alpha Total - (Uranium 234 + Uranium 235 + Uranium 238)
d MCL for Radium was calculated using the following equation: Radium MCL = Radium 226 + Radium 228
e Total Trihalomethanes were calculated using the following equation:
Total Trihalomethanes = Bromodichloromethane + Bromoform + Chloroform + Dibromochloromethane
f Reporting limit exceeds the screening level due to analytical limitations or sample dilution.

Qualifiers:

J Estimated value
U Analyte not detected; the reporting limit is reported in the table
R Rejected data point

+ Biased high
- Biased low
µg/L Microgram per liter
MCL Maximum contaminant level
MDC Minimum detectable concentration
mg/L Milligram per liter
NA Not anaylzed; or not calculated if components are not detected
pCi/L Picocurie per liter
QTR Quarter
SL Screening level

TABLE 3-27
ANALYTICAL RESULTS FOR WELL TMMW-101
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
ALKALINITY (reported in mg/L)							
Bicarbonate Alkalinity		110	130	NA	110	120	120
ANIONS (reported in mg/L)							
Chloride	4	110	230	**NA**	160	**190**	**230**
Nitrate	10	0.4	13	NA	7.4	13	**5.4**
Perchlorate	0.018	0.0068	0.48	NA	0.13	**0.15**	**0.48**
Sulfate	250	820	1300	**NA**	1300	**930**	**920**
GENERAL							
Fluoride	4	0.77	1.7	NA	1.6	1.7	0.77
Nitrite	1	0.2	0.5	NA	0.5 U	0.5 U	0.2 U
Total Phosphorus		0.05	0.05	NA	0.05 U	0.05 U	0.05 U
RADIONUCLIDES (reported in pCi/L)							
Alpha (Total)		4.39	13.7	NA	10.5 ± 3.32	9.25 ± 3.1	11 ± 4.49
Adjusted Gross Alpha (Total) MCL [c]	15	-11.34	2.25	NA	-0.6	-1	1.2
Beta (Total)	50	-4.06	16.3	NA	10 ± 5.15	11.6 ± 3.84	12.7 ± 6.64
Uranium 238		3.33	5.95	NA	3.63 ± 0.729	3.33 ± 0.675	3.35 ± 0.684
Uranium 234		6.31	9.43	NA	7.33 ± 1.34	6.75 ± 1.24	6.31 ± 1.18
Thorium 230	0.042	-0.0328	0.159	**NA**	0.0211 ± 0.0659 U	-0.0328 ± 0.064 U	0.0237 ± 0.0585 U
Radium 226	5	-0.303	0.902	NA	0.0358 ± 0.176 U	0.04 ± 0.265 U	0.125 ± 0.206 U
Radon 222	300	274	1040	**NA**	613 ± 78.3	**996 ± 121**	**704 ± 87.2**
Lead 214		-9.12	43.6	NA	-3.27 ± 6.89 UJ-	-9.12 ± 10.2 UJ-	43.6 ± 11 J-
Bismuth 214		-4.61	46	NA	-1.08 ± 7.21 UJ-	-4.61 ± 10.7 UJ-	46 ± 15.1 J-
Lead 210		0.86	2.33	NA	NA	NA	NA
Thorium 232	0.14	0.00251	0.0463	NA	0.0143 ± 0.0224 U	0.00692 ± 0.019 U	0.00251 ± 0.021 U
Radium 228	5	0.125	12.2	NA	0.181 ± 0.311 U	0.596 ± 0.33 J	0.125 ± 0.314 U
Radium MCL [d]	5	0.6	0.9	NA	NA	0.6	NA
Actinium-228		-4.14	22.6	NA	-4.14 ± 10 U	12.2 ± 9.88 U	22.6 ± 13
Thorium 228	0.11	-0.118	0.0795	NA	-0.0161 ± 0.0502 U	-0.118 ± 0.095 U	0.011 ± 0.0637 U
Lead 212		-4.65	4.12	NA	1.39 ± 4.95 U	-4.65 ± 6.61 U	4.09 ± 9.53 U
Bismuth 212		-3.58	54.5	NA	-3.58 ± 45.8 U	14.9 ± 34.2 U	2.87 ± 48.7 U
Thallium 208		-0.987	5.17	NA	-0.243 ± 2.75 U	-0.987 ± 5.11 U	1.47 ± 5.81 U

TABLE 3-27
ANALYTICAL RESULTS FOR WELL TMMW-101
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
RADIONUCLIDES (reported in pCi/L)							
Potassium 40		-67.4	91.1	NA	-13.2 ± 45.1 U	-25.3 ± 67.5 U	-11.7 ± 96.2 U
Uranium 235		0.156	0.353	NA	0.182 ± 0.105	0.182 ± 0.107	0.156 ± 0.102 J
Polonium-210		0.241	0.241	NA	NA	NA	NA
Protactinium-234		-198	345	NA	287 ± 271 U	291 ± 262 U	216 ± 576 U
Radium-224		-4.65	4.12	NA	1.39 ± 4.95 U	-4.65 ± 6.61 U	4.09 ± 9.53 U
Thorium-227		-21.8	6.78	NA	-21.8 ± 13 U	-0.28 ± 10.3 U	-12.6 ± 23.2 U
Thorium-234		-21.4	9.51	NA	9.51 ± 54.1 U	-1.49 ± 46.8 U	-9.53 ± 86.7 U
SOLIDS (reported in mg/L)							
Total Dissolved Solids	1900	1400	2300	NA	2300	**1800**	2000
TOTAL METAL (reported in ug/L)							
Aluminum	50	76	2000	**NA**	100 U [f]	**500 U [f]**	**76 U [f]**
Antimony	6	15	100	**NA**	20 U [f]	**100 U [f]**	**15 U [f]**
Arsenic	10	17	39	**NA**	17	**18**	**39**
Barium	2000	7.9	33	NA	13 J	7.9 J	11 J
Beryllium	4	0.16	2.8	NA	2 U	2.8 J	0.88 U
Cadmium	5	1.6	25	NA	5 U	25 U [f]	**1.6 U**
Calcium		140000	230000	NA	230000	180000	150000 J-
Chromium	100	2.7	50	NA	10 U	50 U	13 J
Chromium VI	100	10	12	NA	10 U	10 U	12 J-
Cobalt	10.95	2.2	50	NA	10 U	50 U [f]	**2.2 U**
Copper	1300	1.9	50	NA	10 U	50 U	4.8 U
Iron	300	25	1700	NA	100 U	500 U [f]	**25 U**
Lead	15	2.2	15	NA	3 U	15 U	6.4 U
Lithium	73	83	160	**NA**	130 J+	**83 J+**	**120 J**
Magnesium	206955	82000	110000	NA	110000	86000	90000 J-
Manganese	20	0.57	50	NA	10 U	50 U [f]	**0.57 U**
Mercury	2	0.0029	0.2	NA	0.033 U	0.017 J	0.0029 U
Molybdenum	182.5	11	50	NA	11	50 U	50
Nickel	730	2.2	100	NA	20 U	100 U	4.7 U

TABLE 3-27
ANALYTICAL RESULTS FOR WELL TMMW-101
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
TOTAL METAL (reported in ug/L)							
Potassium		7700	13000	NA	13000 J+	7700 J	9100
Selenium	50	5	25	NA	5 U	25 U	13 U
Silicon		13000	27000	NA	13000	14000	24000 J-
Silver	100	5.4	50	NA	10 U	50 U	5.4 U
Sodium		150000	280000	NA	280000 J+	230000 J	260000 J-
Thallium	2	0.02	0.2	NA	0.02 U	0.2 U	0.05 J
Tin	21900	14	250	NA	50 U	250 U	14 U
Titanium	146000	1.4	100	NA	20 U	100 U	1.4 U
Uranium	30	11	17	NA	12	11	12
Vanadium	182.5	9.8	20	NA	10	9.8 J	18 J
Zinc	10950	1.1	430	NA	1.1 U	100 U	3.6 U
Zirconium		1.1	20	NA	1.1 U	16 J	2.5 U
VOLATILES (reported in ug/L)							
1,1,1-Trichloroethane	200	0.3	1	NA	1 U	1 U	0.3 U
1,1,2-Trichloroethane	5	0.3	1	NA	1 U	1 U	0.3 U
1,1-Dichloroethane	2.41809	0.3	1	NA	1 U	1 U	0.3 U
1,1-Dichloroethene	7	0.3	1	NA	1 U	1 U	0.3 U
1,2-Dichloroethane	5	0.3	1	NA	1 U	1 U	0.3 U
1,2-Dichloropropane	5	0.3	1	NA	1 U	1 U	0.3 U
1,3-Dichlorobenzene	86.7327	0.3	1	NA	1 U	1 U	0.3 U
2-Butanone	7064.52	3	10	NA	10 U	10 U	3 U
4-Methyl-2-Pentanone	1990.91	3	10	NA	10 U	10 U	3 U
Acetone	21782.9	6.4	10	NA	10 U	10 U	6.4 U
Benzene	5	0.3	1	NA	1 U	1 U	0.3 U
Bromodichloromethane	0.1173	0.3	1	**NA**	1 U [f]	**1 U [f]**	**0.3 U [f]**
Bromoform	8.51032	0.3	1	NA	1 U	1 U	0.3 U
Bromomethane	8.66102	0.3	1	NA	1 U	1 U	0.3 U
Carbon Disulfide	1042.86	0.3	1	NA	1 U	1 U	0.3 U
Carbon Tetrachloride	5	0.3	1	NA	1 U	1 U	0.3 U

TABLE 3-27
ANALYTICAL RESULTS FOR WELL TMMW-101
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
VOLATILES (reported in ug/L)							
Chlorobenzene	100	0.3	1	NA	1 U	1 U	0.3 U
Chloroform	0.19279	4.1	11	**NA**	11	**11**	**5.5**
Chloromethane	2.7037	0.33	1	NA	1 U	1 U	0.33 U
cis-1,2-Dichloroethene	70	0.3	1	NA	1 U	1 U	0.3 U
Dibromochloromethane	0.14712	0.3	1	**NA**	1 U [f]	**1 U [f]**	**0.3 U [f]**
Ethylbenzene	700	0.3	1	NA	1 U	1 U	0.3 U
Methylene Chloride	5	0.17	1	NA	0.17 U	1 U	0.32 U
Naphthalene	0.14314	0.42	1	**NA**	1 U [f]	**1 U [f]**	**0.42 U [f]**
Styrene	100	0.3	1	NA	1 U	1 U	0.3 U
Tetrachloroethene	5	0.19	1	NA	1 U	1 U	0.19 U
Toluene	1000	0.3	1	NA	1 U	1 U	0.3 U
Total Trihalomethanes [e]	80	4.45	11	NA	11	11	5.5
Trans-1,2-Dichloroethene	100	0.3	1	NA	1 U	1 U	0.3 U
Trichloroethene	5	0.3	1	NA	1 U	1 U	0.3 U
Trichlorofluoromethane	1288.24	0.3	1	NA	1 U	1 U	0.3 U
Vinyl Chloride	2	0.3	1	NA	1 U	1 U	0.3 U
Xylene (Total)	10000	0.6	2	NA	2 U	2 U	0.6 U

TABLE 3-27
ANALYTICAL RESULTS FOR WELL TMMW-101
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012

Notes:

a NDEP BCL are reported in the same unit as analytical group. Source of NDEP BCL's are from May 2012 update. MCL applied where no BCL exists.
b Bolded results exceed the associated screening level.
c MCL for Adjusted Gross Alpha (Total) was calculated using the following equation
Adjusted Gross Alpha (Total) MCL = Alpha Total - (Uranium 234 + Uranium 235 + Uranium 238)
d MCL for Radium was calculated using the following equation: Radium MCL = Radium 226 + Radium 228
e Total Trihalomethanes were calculated using the following equation:
Total Trihalomethanes = Bromodichloromethane + Bromoform + Chloroform + Dibromochloromethane
f Reporting limit exceeds the screening level due to analytical limitations or sample dilution.

Qualifiers:

J Estimated value
U Analyte not detected; the reporting limit is reported in the table
R Rejected data point

+ Biased high
- Biased low
µg/L Microgram per liter
MCL Maximum contaminant level
MDC Minimum detectable concentration
mg/L Milligram per liter
NA Not anaylzed; or not calculated if components are not detected
pCi/L Picocurie per liter
QTR Quarter
SL Screening level

TABLE 3-28
ANALYTICAL RESULTS FOR WELL TMMW-102
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
ALKALINITY (reported in mg/L)							
Bicarbonate Alkalinity		100	140	NA	NA	NA	130 J
ANIONS (reported in mg/L)							
Chloride	4	130	720	**NA**	NA	NA	150 J
Nitrate	10	0.25	12	NA	NA	NA	0.25 J
Perchlorate	0.018	0.025	1.6	**NA**	NA	NA	0.05 J
Sulfate	250	340	1400	**NA**	NA	NA	490 J
GENERAL							
Fluoride	4	0.71	0.93	NA	NA	NA	0.71 J
Nitrite	1	0.1	0.5	NA	NA	NA	0.1 U
Total Phosphorus		0.05	0.05	NA	NA	NA	0.05 U
RADIONUCLIDES (reported in pCi/L)							
Alpha (Total)		4.7	10.1	NA	NA	NA	7.77 ± 2.13
Adjusted Gross Alpha (Total) MCL [c]	15	-8.21	-0.64	NA	NA	NA	-5.3
Beta (Total)	50	5.3	10.1	NA	NA	NA	7.52 ± 2.52
Uranium 238		3.07	4.35	NA	NA	NA	4.26 ± 0.836
Uranium 234		5.14	8.54	NA	NA	NA	8.54 ± 1.55
Thorium 230	0.042	-0.00413	0.147	NA	NA	NA	0.0176 ± 0.054 U
Radium 226	5	-0.213	0.217	NA	NA	NA	0.0301 ± 0.148 U
Radon 222	300	161	557	**NA**	NA	NA	365 ± 50.2
Lead 214		-2.48	29	NA	NA	NA	24.9 ± 9.56 J-
Bismuth 214		1.38	27	NA	NA	NA	27 ± 11 J-
Lead 210		0.697	1.36	NA	NA	NA	NA
Thorium 232	0.14	0.0033	0.0194	NA	NA	NA	0.0102 ± 0.0186 U
Radium 228	5	-0.213	2.59	NA	NA	NA	0.042 ± 0.317 U
Radium MCL [d]	5	0	0	NA	NA	NA	NA
Actinium-228		2.16	12.8	NA	NA	NA	4.07 ± 20.1 U
Thorium 228	0.11	-0.0331	0.0884	NA	NA	NA	-0.0331 ± 0.0466 U
Lead 212		-0.551	3.27	NA	NA	NA	3.27 ± 7.57 U
Bismuth 212		-18.1	45.9	NA	NA	NA	45.9 ± 40 U
Thallium 208		-0.746	5.08	NA	NA	NA	5.03 ± 2.93

TABLE 3-28
ANALYTICAL RESULTS FOR WELL TMMW-102
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
RADIONUCLIDES (reported in pCi/L)							
Potassium 40		-98.1	74.3	NA	NA	NA	-21.8 ± 77.6 U
Uranium 235		0.0844	0.266	NA	NA	NA	0.242 ± 0.125
Polonium-210		0.104	0.104	NA	NA	NA	NA
Protactinium-234		-102	464	NA	NA	NA	-102 ± 461 U
Radium-224		-0.551	3.27	NA	NA	NA	3.27 ± 7.57 U
Thorium-227		-9.48	6.19	NA	NA	NA	-3.62 ± 19.6 U
Thorium-234		-65.1	41.1	NA	NA	NA	41.1 ± 75.2 U
SOLIDS (reported in mg/L)							
Total Dissolved Solids	1900	870	3000	NA	NA	NA	1200 J
TOTAL METAL (reported in ug/L)							
Aluminum	50	68	260	**NA**	NA	NA	76 U [f]
Antimony	6	15	20	**NA**	NA	NA	15 U [f]
Arsenic	10	19	25	**NA**	NA	NA	22
Barium	2000	6.7	24	NA	NA	NA	6.7 J
Beryllium	4	0.88	2	NA	NA	NA	0.88 U
Cadmium	5	1.6	5	NA	NA	NA	1.6 U
Calcium		80000	280000	NA	NA	NA	110000 J-
Chromium	100	2.6	9.9	NA	NA	NA	2.6 U
Chromium VI	100	3	10	NA	NA	NA	3 U
Cobalt	10.95	2.2	10	NA	NA	NA	2.2 U
Copper	1300	1.1	10	NA	NA	NA	4.8 U
Iron	300	25	160	NA	NA	NA	25 U
Lead	15	3	6.4	NA	NA	NA	6.4 U
Lithium	73	76	210	**NA**	NA	NA	76 J
Magnesium	206955	52000	150000	NA	NA	NA	66000 J-
Manganese	20	0.57	4.5	NA	NA	NA	0.57 U
Mercury	2	0.0029	0.2	NA	NA	NA	0.0029 U
Molybdenum	182.5	24	40	NA	NA	NA	24 J
Nickel	730	0.88	20	NA	NA	NA	4.7 U

TABLE 3-28
ANALYTICAL RESULTS FOR WELL TMMW-102
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
TOTAL METAL (reported in ug/L)							
Potassium		4900	20000	NA	NA	NA	4900 J
Selenium	50	3.4	13	NA	NA	NA	13 U
Silicon		16000	20000	NA	NA	NA	20000 J-
Silver	100	5.4	10	NA	NA	NA	5.4 U
Sodium		95000	370000	NA	NA	NA	110000 J-
Thallium	2	0.02	0.2	NA	NA	NA	0.02 J
Tin	21900	14	50	NA	NA	NA	14 U
Titanium	146000	1.4	20	NA	NA	NA	1.4 U
Uranium	30	8	13	NA	NA	NA	12
Vanadium	182.5	12	18	NA	NA	NA	12 J
Zinc	10950	3.8	2200	NA	NA	NA	8.5 J
Zirconium		2.5	20	NA	NA	NA	2.5 U
VOLATILES (reported in ug/L)							
1,1,1-Trichloroethane	200	0.3	1	NA	NA	NA	0.3 U
1,1,2-Trichloroethane	5	0.3	1	NA	NA	NA	0.3 U
1,1-Dichloroethane	2.41809	0.3	1	NA	NA	NA	0.3 U
1,1-Dichloroethene	7	0.3	1	NA	NA	NA	0.3 U
1,2-Dichloroethane	5	0.3	1	NA	NA	NA	0.3 U
1,2-Dichloropropane	5	0.3	1	NA	NA	NA	0.3 U
1,3-Dichlorobenzene	86.7327	0.3	1	NA	NA	NA	0.3 U
2-Butanone	7064.52	3	10	NA	NA	NA	3 U
4-Methyl-2-Pentanone	1990.91	3	10	NA	NA	NA	3 U
Acetone	21782.9	6.4	10	NA	NA	NA	6.4 U
Benzene	5	0.3	1	NA	NA	NA	0.3 U
Bromodichloromethane	0.1173	0.26	1	**NA**	NA	NA	0.3 U [f]
Bromoform	8.51032	0.3	1	NA	NA	NA	0.3 U
Bromomethane	8.66102	0.3	1	NA	NA	NA	0.3 U
Carbon Disulfide	1042.86	0.3	1	NA	NA	NA	0.3 U
Carbon Tetrachloride	5	0.3	1	NA	NA	NA	0.3 U

TABLE 3-28
ANALYTICAL RESULTS FOR WELL TMMW-102
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
VOLATILES (reported in ug/L)							
Chlorobenzene	100	0.3	1	NA	NA	NA	0.3 U
Chloroform	0.19279	0.79	1.7	**NA**	NA	NA	1.3
Chloromethane	2.7037	0.33	1	NA	NA	NA	0.33 U
cis-1,2-Dichloroethene	70	0.3	1	NA	NA	NA	0.3 U
Dibromochloromethane	0.14712	0.3	1	**NA**	NA	NA	0.3 U [f]
Ethylbenzene	700	0.3	1	NA	NA	NA	0.3 U
Methylene Chloride	5	0.32	1	NA	NA	NA	0.32 U
Naphthalene	0.14314	0.42	1	**NA**	NA	NA	0.42 U [f]
Styrene	100	0.3	1	NA	NA	NA	0.3 U
Tetrachloroethene	5	0.19	1	NA	NA	NA	0.19 U
Toluene	1000	0.3	1	NA	NA	NA	0.3 U
Total Trihalomethanes [e]	80	0.79	1.96	NA	NA	NA	1.3
Trans-1,2-Dichloroethene	100	0.3	1	NA	NA	NA	0.3 U
Trichloroethene	5	0.3	1	NA	NA	NA	0.3 U
Trichlorofluoromethane	1288.24	0.3	1	NA	NA	NA	0.3 U
Vinyl Chloride	2	0.3	1	NA	NA	NA	0.3 U
Xylene (Total)	10000	0.6	2	NA	NA	NA	0.6 U

TABLE 3-28
ANALYTICAL RESULTS FOR WELL TMMW-102
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012

Notes:

a NDEP BCL are reported in the same unit as analytical group. Source of NDEP BCL's are from May 2012 update. MCL applied where no BCL exists.
b Bolded results exceed the associated screening level.
c MCL for Adjusted Gross Alpha (Total) was calculated using the following equation
Adjusted Gross Alpha (Total) MCL = Alpha Total - (Uranium 234 + Uranium 235 + Uranium 238)
d MCL for Radium was calculated using the following equation: Radium MCL = Radium 226 + Radium 228
e Total Trihalomethanes were calculated using the following equation:
Total Trihalomethanes = Bromodichloromethane + Bromoform + Chloroform + Dibromochloromethane
f Reporting limit exceeds the screening level due to analytical limitations or sample dilution.

Qualifiers:

J Estimated value
U Analyte not detected; the reporting limit is reported in the table
R Rejected data point

+ Biased high
- Biased low
µg/L Microgram per liter
MCL Maximum contaminant level
MDC Minimum detectable concentration
mg/L Milligram per liter
NA Not anaylzed; or not calculated if components are not detected
pCi/L Picocurie per liter
QTR Quarter
SL Screening level

TABLE 3-29
ANALYTICAL RESULTS FOR WELL TMMW-103
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
ALKALINITY (reported in mg/L)							
Bicarbonate Alkalinity		93	140	NA	NA	NA	110
ANIONS (reported in mg/L)							
Chloride	4	170	630	**NA**	NA	NA	360
Nitrate	10	0.7	22	NA	NA	NA	22
Perchlorate	0.018	0.11	1.8	**NA**	NA	NA	0.51
Sulfate	250	350	1300	**NA**	NA	NA	950
GENERAL							
Fluoride	4	0.76	1.9	NA	NA	NA	0.76
Nitrite	1	0.2	0.5	NA	NA	NA	0.5 U
Total Phosphorus		0.05	0.05	NA	NA	NA	0.05 U
RADIONUCLIDES (reported in pCi/L)							
Alpha (Total)		4.92	13.6	NA	NA	NA	4.92 ± 3.74 U
Adjusted Gross Alpha (Total) MCL [c]	15	-7.95	5.62	NA	NA	NA	-7.9
Beta (Total)	50	5.96	26.1	NA	NA	NA	5.96 ± 6.13 U
Uranium 238		2.48	3.47	NA	NA	NA	2.9 ± 0.601
Uranium 234		4.71	7.31	NA	NA	NA	4.89 ± 0.936
Thorium 230	0.042	-0.0568	0.104	NA	NA	NA	-0.0568 ± 0.0601 U
Radium 226	5	-0.18	0.259	NA	NA	NA	0.115 ± 0.144 U
Radon 222	300	194	771	**NA**	NA	NA	748 ± 93.3
Lead 214		-3.59	57.8	NA	NA	NA	48.1 ± 10.8 J-
Bismuth 214		4.84	61.8	NA	NA	NA	35.7 ± 12.4 J-
Lead 210		0.921	0.953	NA	NA	NA	NA
Thorium 232	0.14	-0.0037	0.0234	NA	NA	NA	0.0177 ± 0.0252 U
Radium 228	5	-0.0935	0.835	NA	NA	NA	0.37 ± 0.271 U
Radium MCL [d]	5	0.84	0.84	NA	NA	NA	NA
Actinium-228		-4.73	21.4	NA	NA	NA	15.9 ± 20.4 U
Thorium 228	0.11	-0.0219	0.0403	NA	NA	NA	0.0403 ± 0.105 U
Lead 212		-1.7	4.76	NA	NA	NA	-1.68 ± 7.47 U
Bismuth 212		17.5	69.4	NA	NA	NA	56.1 ± 38.7 U
Thallium 208		0.134	7.04	NA	NA	NA	0.134 ± 4.59 U

TABLE 3-29
ANALYTICAL RESULTS FOR WELL TMMW-103
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
RADIONUCLIDES (reported in pCi/L)							
Potassium 40		-3.51	80.4	NA	NA	NA	37.9 ± 78 U
Uranium 235		0.0871	0.235	NA	NA	NA	0.157 ± 0.101 J
Polonium-210		0.8	0.8	NA	NA	NA	NA
Protactinium-234		-324	769	NA	NA	NA	-65.3 ± 506 U
Radium-224		-1.7	4.76	NA	NA	NA	-1.68 ± 7.47 U
Thorium-227		-8.18	4.38	NA	NA	NA	-8.18 ± 20.3 U
Thorium-234		-10.8	48.6	NA	NA	NA	-10.8 ± 46 U
SOLIDS (reported in mg/L)							
Total Dissolved Solids	1900	920	2900	**NA**	NA	NA	2400
TOTAL METAL (reported in ug/L)							
Aluminum	50	56	360	**NA**	NA	NA	76 U [f]
Antimony	6	15	20	**NA**	NA	NA	15 U [f]
Arsenic	10	20	27	**NA**	NA	NA	23
Barium	2000	13	28	NA	NA	NA	14 J
Beryllium	4	0.19	2	NA	NA	NA	0.88 U
Cadmium	5	1.6	5	NA	NA	NA	1.6 U
Calcium		84000	250000	NA	NA	NA	190000 J-
Chromium	100	2.7	14	NA	NA	NA	14 J
Chromium VI	100	10	16	NA	NA	NA	16
Cobalt	10.95	2.2	10	NA	NA	NA	2.2 U
Copper	1300	4.8	10	NA	NA	NA	4.8 U
Iron	300	6.2	260	NA	NA	NA	25 U
Lead	15	2.3	6.4	NA	NA	NA	6.4 U
Lithium	73	97	210	**NA**	NA	NA	130 J
Magnesium	206955	55000	150000	NA	NA	NA	110000 J-
Manganese	20	0.57	7.8	NA	NA	NA	0.57 U
Mercury	2	0.0029	0.2	NA	NA	NA	0.0029 U
Molybdenum	182.5	15	37	NA	NA	NA	15 J
Nickel	730	1.6	20	NA	NA	NA	4.7 U

TABLE 3-29
ANALYTICAL RESULTS FOR WELL TMMW-103
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
TOTAL METAL (reported in ug/L)							
Potassium		7300	19000	NA	NA	NA	11000
Selenium	50	5	13	NA	NA	NA	13 U
Silicon		16000	18000	NA	NA	NA	18000 J-
Silver	100	5.4	10	NA	NA	NA	5.4 U
Sodium		100000	410000	NA	NA	NA	330000 J-
Thallium	2	0.016	0.2	NA	NA	NA	0.016 U
Tin	21900	14	50	NA	NA	NA	14 U
Titanium	146000	1.4	20	NA	NA	NA	1.4 U
Uranium	30	7.9	11	NA	NA	NA	8.1
Vanadium	182.5	10	15	NA	NA	NA	10 J
Zinc	10950	2	20	NA	NA	NA	3.6 U
Zirconium		2.5	20	NA	NA	NA	2.5 U
VOLATILES (reported in ug/L)							
1,1,1-Trichloroethane	200	0.3	1	NA	NA	NA	0.3 U
1,1,2-Trichloroethane	5	0.3	1	NA	NA	NA	0.3 U
1,1-Dichloroethane	2.41809	0.3	1	NA	NA	NA	0.3 U
1,1-Dichloroethene	7	0.3	1	NA	NA	NA	0.3 U
1,2-Dichloroethane	5	0.3	1	NA	NA	NA	0.3 U
1,2-Dichloropropane	5	0.3	1	NA	NA	NA	0.3 U
1,3-Dichlorobenzene	86.7327	0.3	1	NA	NA	NA	0.3 U
2-Butanone	7064.52	3	10	NA	NA	NA	3 U
4-Methyl-2-Pentanone	1990.91	3	10	NA	NA	NA	3 U
Acetone	21782.9	6.4	10	NA	NA	NA	6.4 U
Benzene	5	0.3	1	NA	NA	NA	0.3 U
Bromodichloromethane	0.1173	0.28	1	**NA**	NA	NA	0.46 J
Bromoform	8.51032	0.3	1	NA	NA	NA	0.3 U
Bromomethane	8.66102	0.3	1	NA	NA	NA	0.3 U
Carbon Disulfide	1042.86	0.17	1	NA	NA	NA	0.3 U
Carbon Tetrachloride	5	0.3	1	NA	NA	NA	0.3 U

TABLE 3-29
ANALYTICAL RESULTS FOR WELL TMMW-103
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
VOLATILES (reported in ug/L)							
Chlorobenzene	100	0.3	1	NA	NA	NA	0.3 U
Chloroform	0.19279	0.88	3.1	**NA**	NA	NA	2.5
Chloromethane	2.7037	0.33	1	NA	NA	NA	0.33 U
cis-1,2-Dichloroethene	70	0.3	1	NA	NA	NA	0.3 U
Dibromochloromethane	0.14712	0.3	1	**NA**	NA	NA	0.3 U [f]
Ethylbenzene	700	0.3	1	NA	NA	NA	0.3 U
Methylene Chloride	5	0.32	1	NA	NA	NA	0.32 U
Naphthalene	0.14314	0.42	1	**NA**	NA	NA	0.42 U [f]
Styrene	100	0.3	1	NA	NA	NA	0.3 U
Tetrachloroethene	5	0.19	1	NA	NA	NA	0.19 U
Toluene	1000	0.3	1	NA	NA	NA	0.3 U
Total Trihalomethanes [e]	80	0.88	3.46	NA	NA	NA	2.96
Trans-1,2-Dichloroethene	100	0.3	1	NA	NA	NA	0.3 U
Trichloroethene	5	0.3	1	NA	NA	NA	0.3 U
Trichlorofluoromethane	1288.24	0.3	1	NA	NA	NA	0.3 U
Vinyl Chloride	2	0.3	1	NA	NA	NA	0.3 U
Xylene (Total)	10000	0.6	2	NA	NA	NA	0.6 U

TABLE 3-29
ANALYTICAL RESULTS FOR WELL TMMW-103
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012

Notes:

a NDEP BCL are reported in the same unit as analytical group. Source of NDEP BCL's are from May 2012 update. MCL applied where no BCL exists.
b Bolded results exceed the associated screening level.
c MCL for Adjusted Gross Alpha (Total) was calculated using the following equation
Adjusted Gross Alpha (Total) MCL = Alpha Total - (Uranium 234 + Uranium 235 + Uranium 238)
d MCL for Radium was calculated using the following equation: Radium MCL = Radium 226 + Radium 228
e Total Trihalomethanes were calculated using the following equation:
Total Trihalomethanes = Bromodichloromethane + Bromoform + Chloroform + Dibromochloromethane
f Reporting limit exceeds the screening level due to analytical limitations or sample dilution.

Qualifiers:

J Estimated value
U Analyte not detected; the reporting limit is reported in the table
R Rejected data point

+ Biased high
- Biased low
µg/L Microgram per liter
MCL Maximum contaminant level
MDC Minimum detectable concentration
mg/L Milligram per liter
NA Not anaylzed; or not calculated if components are not detected
pCi/L Picocurie per liter
QTR Quarter
SL Screening level

TABLE 3-30
ANALYTICAL RESULTS FOR WELL TMMW-104
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
ALKALINITY (reported in mg/L)							
Bicarbonate Alkalinity		94	120	NA	120	120	110
ANIONS (reported in mg/L)							
Chloride	4	140	230	**NA**	220 J	**160**	**150**
Nitrate	10	1	8.6	NA	4.7 J	3.4	8.6
Perchlorate	0.018	0.039	0.45	**NA**	0.45 J	**0.26**	**0.073**
Sulfate	250	820	1700	**NA**	840 J	**820**	**1200**
GENERAL							
Fluoride	4	0.88	2.3	NA	0.88 J	0.92	1.5
Nitrite	1	0.2	0.5	NA	0.2 U	0.5 U	0.5 U
Total Phosphorus		0.05	0.05	NA	0.05 U	0.05 U	0.05 U
RADIONUCLIDES (reported in pCi/L)							
Alpha (Total)		1.83	12.6	NA	10.2 ± 2.76	7.8 ± 3.06	12.6 ± 6.43
Adjusted Gross Alpha (Total) MCL [c]	15	-9.88	3.83	NA	-1.1	-4.7	2.2
Beta (Total)	50	4.09	18.2	NA	7.75 ± 3.74	11.5 ± 3.76	4.09 ± 12.3 U
Uranium 238		2.07	4.61	NA	4.02 ± 0.782	4.61 ± 0.904	3.73 ± 0.775
Uranium 234		4.07	7.66	NA	7.02 ± 1.28	7.66 ± 1.42	6.47 ± 1.24
Thorium 230	0.042	-0.0349	0.129	NA	-0.00719 ± 0.0632 U	0.00641 ± 0.0602 U	-0.0349 ± 0.0459 U
Radium 226	5	-0.472	0.308	NA	0.143 ± 0.305 U	0.204 ± 0.259 U	0.072 ± 0.177 U
Radon 222	300	329	872	**NA**	648 ± 82.5	**812 ± 101**	**554 ± 72**
Lead 214		-4.31	30.3	NA	-4.31 ± 6.28 UJ-	-1.86 ± 9.39 UJ-	30.3 ± 9.54 J-
Bismuth 214		-5.86	26.4	NA	-5.86 ± 6.76 UJ-	-1.7 ± 11.4 UJ-	23.7 ± 14.2 J-
Lead 210		0.328	3.77	NA	NA	NA	NA
Thorium 232	0.14	-0.00391	0.0616	NA	0.00382 ± 0.0194 U	-0.00391 ± 0.0208 U	-0.00248 ± 0.0122 U
Radium 228	5	0.149	15.2	NA	0.171 ± 0.326 U	0.534 ± 0.341 U	0.398 ± 0.306 U
Radium MCL [d]	5	0	0	NA	NA	NA	NA
Actinium-228		-1.06	21.6	NA	-1.06 ± 9.81 U	1.96 ± 16.9 U	15.4 ± 9.76
Thorium 228	0.11	-0.0402	0.0945	NA	-0.00843 ± 0.0614 U	-0.0229 ± 0.0742 U	-0.0402 ± 0.0506 U
Lead 212		-3.77	9.18	NA	-0.524 ± 4.7 U	3.02 ± 7.52 U	-0.95 ± 6.76 U
Bismuth 212		-2.58	53	NA	16.8 ± 45.3 U	53 ± 34 U	32.2 ± 34.1 U
Thallium 208		-0.217	4.21	NA	-0.217 ± 2.78 U	3.75 ± 2.51 U	1.13 ± 4.55 U

TABLE 3-30
ANALYTICAL RESULTS FOR WELL TMMW-104
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
RADIONUCLIDES (reported in pCi/L)							
Potassium 40		-73.7	200	NA	-2.22 ± 44.2 U	-42.5 ± 69.9 U	41.9 ± 69.4 U
Uranium 235		0.105	0.245	NA	0.237 ± 0.118	0.245 ± 0.13	0.224 ± 0.128
Polonium-210		0.118	0.118	NA	NA	NA	NA
Protactinium-234		-193	420	NA	269 ± 255 U	-193 ± 716 U	251 ± 400 U
Radium-224		-3.77	9.18	NA	-0.524 ± 4.7 U	3.02 ± 7.52 U	-0.95 ± 6.76 U
Thorium-227		-44.8	10.7	NA	-12.5 ± 12 U	10.7 ± 12.6 U	-2.8 ± 11.5 U
Thorium-234		-43.2	144	NA	0.72 ± 53.3 U	-43.2 ± 114 U	37.2 ± 70.6 U
SOLIDS (reported in mg/L)							
Total Dissolved Solids	1900	1600	2600	**NA**	1700	1600	2400
TOTAL METAL (reported in ug/L)							
Aluminum	50	27	500	**NA**	100 U [f]	**500 U [f]**	**76 U [f]**
Antimony	6	15	100	**NA**	20 U [f]	**100 U [f]**	**15 U [f]**
Arsenic	10	17	39	**NA**	37	**39**	**17**
Barium	2000	9.4	18	NA	14 J	9.4 J	9.6 J
Beryllium	4	0.88	2	NA	2 U	1.4 J	0.88 U
Cadmium	5	1.6	25	NA	5 U	25 U [f]	**1.6 U**
Calcium		120000	270000	NA	150000 J	150000	200000 J-
Chromium	100	1.6	50	NA	12	50 U	2.6 U
Chromium VI	100	3	12	NA	12	11	3 U
Cobalt	10.95	2.2	50	NA	10 U	50 U [f]	**2.2 U**
Copper	1300	0.56	50	NA	10 U	50 U	4.8 U
Iron	300	8.3	500	NA	16 U	500 U [f]	**25 U**
Lead	15	1.2	15	NA	3 U	15 U	6.4 U
Lithium	73	88	150	**NA**	150 J+	**110 J+**	**88 J**
Magnesium	206955	57000	120000	NA	88000 J	90000	100000 J-
Manganese	20	0.34	50	NA	10 U	50 U [f]	**1.6 J**
Mercury	2	0.0029	0.2	NA	0.014 U	0.2 U	0.0029 U
Molybdenum	182.5	5.4	38	NA	38	27 J	5.4 U
Nickel	730	1.5	100	NA	1.6 J	100 U	4.7 U

TABLE 3-30
ANALYTICAL RESULTS FOR WELL TMMW-104
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
TOTAL METAL (reported in ug/L)							
Potassium		8000	14000	NA	12000 J+	8000 J	8700
Selenium	50	5	25	NA	5 U	25 U	13 U
Silicon		11000	25000	NA	23000	25000	14000 J-
Silver	100	5.4	50	NA	10 U	50 U	5.4 U
Sodium		190000	280000	NA	200000 J+	190000 J	270000 J-
Thallium	2	0.016	0.2	NA	0.03 U	0.2 U	0.016 U
Tin	21900	14	250	NA	50 U	250 U	14 U
Titanium	146000	1.4	100	NA	20 U	100 U	1.4 U
Uranium	30	7	13	NA	13	13	11
Vanadium	182.5	9.8	15	NA	15	15 J	9.8 J
Zinc	10950	2	20	NA	5 U	10 J	3.6 U
Zirconium		1.1	20	NA	20 U	8.9 J	2.5 U
VOLATILES (reported in ug/L)							
1,1,1-Trichloroethane	200	0.3	1	NA	1 U	1 U	0.3 U
1,1,2-Trichloroethane	5	0.3	1	NA	1 U	1 U	0.3 U
1,1-Dichloroethane	2.41809	0.3	1	NA	1 U	1 U	0.3 U
1,1-Dichloroethene	7	0.3	1	NA	1 U	1 U	0.3 U
1,2-Dichloroethane	5	0.3	1	NA	1 U	1 U	0.3 U
1,2-Dichloropropane	5	0.3	1	NA	1 U	1 U	0.3 U
1,3-Dichlorobenzene	86.7327	0.3	1	NA	1 U	1 U	0.3 U
2-Butanone	7064.52	3	10	NA	10 U	10 U	3 U
4-Methyl-2-Pentanone	1990.91	3	10	NA	10 U	10 U	3 U
Acetone	21782.9	6.4	10	NA	10 U	10 U	6.4 U
Benzene	5	0.3	1	NA	1 U	1 U	0.3 U
Bromodichloromethane	0.1173	0.19	1.3	**NA**	1 U [f]	**1 U [f]**	**0.3 U [f]**
Bromoform	8.51032	0.3	1	NA	1 U	1 U	0.3 U
Bromomethane	8.66102	0.3	1	NA	1 U	1 U	0.3 U
Carbon Disulfide	1042.86	0.3	1	NA	1 U	1 U	0.3 U
Carbon Tetrachloride	5	0.3	1	NA	1 U	1 U	0.3 U

TABLE 3-30
ANALYTICAL RESULTS FOR WELL TMMW-104
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
VOLATILES (reported in ug/L)							
Chlorobenzene	100	0.3	1	NA	1 U	1 U	0.3 U
Chloroform	0.19279	0.34	9.5	**NA**	5.9	**8**	**9.5**
Chloromethane	2.7037	0.33	1	NA	1 U	1 U	0.33 U
cis-1,2-Dichloroethene	70	0.3	1	NA	1 U	1 U	0.3 U
Dibromochloromethane	0.14712	0.25	1	**NA**	1 U [f]	**1 U** [f]	**0.3 U** [f]
Ethylbenzene	700	0.3	1	NA	1 U	1 U	0.3 U
Methylene Chloride	5	0.32	1	NA	1 U	1 U	0.32 U
Naphthalene	0.14314	0.42	1	**NA**	1 U [f]	**1 U** [f]	**0.42 U** [f]
Styrene	100	0.3	1	NA	1 U	1 U	0.3 U
Tetrachloroethene	5	0.19	1	NA	1 U	1 U	0.19 U
Toluene	1000	0.3	1	NA	1 U	1 U	0.3 U
Total Trihalomethanes [e]	80	0.34	10.55	NA	5.9	8	9.5
Trans-1,2-Dichloroethene	100	0.3	1	NA	1 U	1 U	0.3 U
Trichloroethene	5	0.3	1	NA	1 U	1 U	0.3 U
Trichlorofluoromethane	1288.24	0.3	1	NA	1 U	1 U	0.3 U
Vinyl Chloride	2	0.3	1	NA	1 U	1 U	0.3 U
Xylene (Total)	10000	0.6	2	NA	2 U	2 U	0.6 U

TABLE 3-30
ANALYTICAL RESULTS FOR WELL TMMW-104
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012

Notes:

a NDEP BCL are reported in the same unit as analytical group. Source of NDEP BCL's are from May 2012 update. MCL applied where no BCL exists.
b Bolded results exceed the associated screening level.
c MCL for Adjusted Gross Alpha (Total) was calculated using the following equation
Adjusted Gross Alpha (Total) MCL = Alpha Total - (Uranium 234 + Uranium 235 + Uranium 238)
d MCL for Radium was calculated using the following equation: Radium MCL = Radium 226 + Radium 228
e Total Trihalomethanes were calculated using the following equation:
Total Trihalomethanes = Bromodichloromethane + Bromoform + Chloroform + Dibromochloromethane
f Reporting limit exceeds the screening level due to analytical limitations or sample dilution.

Qualifiers:

J Estimated value
U Analyte not detected; the reporting limit is reported in the table
R Rejected data point

+ Biased high
- Biased low
µg/L Microgram per liter
MCL Maximum contaminant level
MDC Minimum detectable concentration
mg/L Milligram per liter
NA Not anaylzed; or not calculated if components are not detected
pCi/L Picocurie per liter
QTR Quarter
SL Screening level

TABLE 3-31
ANALYTICAL RESULTS FOR WELL AA-01
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
ALKALINITY (reported in mg/L)							
Bicarbonate Alkalinity		83	110	99	93	90	83
ANIONS (reported in mg/L)							
Chloride	4	700	840	**840**	**700**	**790**	**840**
Nitrate	10	9.1	11	11	**10**	10	11
Perchlorate	0.018	2	19	**2.4**	**2**	**2.3**	**2.1**
Sulfate	250	1400	1700	**1700**	**1400**	**1700**	**1700**
GENERAL							
Fluoride	4	0.97	1.3	1.3	1.1	1.1	0.97
Nitrite	1	0.15	0.5	0.5 U	0.5 U	0.5 U	0.15 U
Total Phosphorus		0.015	0.05	0.05 U	0.05 U	0.05 U	0.015 U
RADIONUCLIDES (reported in pCi/L)							
Alpha (Total)		30.2	30.2	NA	NA	NA	NA
Adjusted Gross Alpha (Total) MCL [c]	15	-24.31	-24.31	NA	NA	NA	NA
Beta (Total)	50	17.5	17.5	NA	NA	NA	NA
Uranium 238		22.9	22.9	NA	NA	NA	NA
Uranium 234		30.4	30.4	NA	NA	NA	NA
Thorium 230	0.042	0.0544	0.0544	NA	NA	NA	NA
Radium 226	5	0.137	0.137	NA	NA	NA	NA
Radon 222	300	710	710	NA	NA	NA	NA
Lead 214		16.6	16.6	NA	NA	NA	NA
Bismuth 214		15.4	15.4	NA	NA	NA	NA
Lead 210		0.207	0.207	NA	NA	NA	NA
Thorium 232	0.14	0.0009	0.0009	NA	NA	NA	NA
Radium 228	5	0.568	0.568	NA	NA	NA	NA
Radium MCL [d]	5	0	0	NA	NA	NA	NA
Actinium-228		0.821	0.821	NA	NA	NA	NA
Thorium 228	0.11	0.0701	0.0701	NA	NA	NA	NA
Lead 212		2.21	2.21	NA	NA	NA	NA
Bismuth 212		26.2	26.2	NA	NA	NA	NA
Thallium 208		5.94	5.94	NA	NA	NA	NA

TABLE 3-31
ANALYTICAL RESULTS FOR WELL AA-01
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
RADIONUCLIDES (reported in pCi/L)							
Potassium 40		-1.35	-1.35	NA	NA	NA	NA
Uranium 235		1.21	1.21	NA	NA	NA	NA
Polonium-210				NA	NA	NA	NA
Protactinium-234		777	777	NA	NA	NA	NA
Radium-224		2.21	2.21	NA	NA	NA	NA
Thorium-227		-5.23	-5.23	NA	NA	NA	NA
Thorium-234		33.4	33.4	NA	NA	NA	NA
SOLIDS (reported in mg/L)							
Total Dissolved Solids	1900	3600	4300	**4200**	**3800**	**3600**	**4300**
TOTAL METAL (reported in ug/L)							
Aluminum	50	100	500	**500 U [f]**	**100 U [f]**	**500 U [f]**	**170 J**
Antimony	6	15	100	**100 U [f]**	**20 U [f]**	**100 U [f]**	**15 U [f]**
Arsenic	10	58	95	**88**	**92**	**95**	**92**
Barium	2000	12	20	12 J-	15 J	13 J	14 J
Beryllium	4	0.22	10	10 U [f]	**2 U**	2.2 J	0.88 U
Cadmium	5	0.48	25	25 U [f]	**0.48 J-**	25 U [f]	**1.6 U**
Calcium		490000	550000	550000 J-	510000	510000	490000 J-
Chromium	100	4.6	50	50 U	8.7 J-	4.6 J	11 J
Chromium VI	100	10	10	10 U	NA	NA	NA
Cobalt	10.95	2.2	50	50 U [f]	**10 U**	50 U [f]	**2.2 U**
Copper	1300	1.1	50	50 U	10 U	50 U	4.8 U
Iron	300	25	500	500 U [f]	**100 U**	500 U [f]	**25 U**
Lead	15	1.8	15	15 U	1.8 J	15 U	6.4 U
Lithium	73	210	270	**210 J+**	**250 J+**	**210 J+**	**210 J**
Magnesium	206955	120000	210000	180000 J-	170000	200000	210000 J-
Manganese	20	1.5	50	50 U [f]	**10 U**	50 U [f]	**2.3 J**
Mercury	2	0.0029	0.2	0.017 J-	0.033 U	0.2 U	0.0029 U
Molybdenum	182.5	7.9	50	50 U	12	50 U	7.9 J
Nickel	730	1.9	100	100 U	1.9 J	100 U	4.7 U

TABLE 3-31
ANALYTICAL RESULTS FOR WELL AA-01
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
TOTAL METAL (reported in ug/L)							
Potassium		8200	12000	9000	11000 J+	8200 J	8500
Selenium	50	3.7	25	25 U	4.3 U	25 U	13 U
Silicon		38000	41000	39000 J-	38000	41000	41000 J-
Silver	100	5.4	50	50 U	10 U	50 U	5.4 U
Sodium		320000	390000	360000 J-	350000 J+	360000 J	390000 J-
Thallium	2	0.016	0.2	0.2 U	0.04 U	0.2 U	0.016 U
Tin	21900	3.6	250	250 U	50 U	250 U	14 U
Titanium	146000	1.4	100	100 U	20 U	100 U	1.4 U
Uranium	30	29	68	**45**	**36**	**35**	**29**
Vanadium	182.5	27	39	34 U	34	39 J	38 J
Zinc	10950	1.5	130	100 U	20 U	100 U	3.6 U
Zirconium		2.5	100	100 U	20 U	9.9 J	2.5 U
VOLATILES (reported in ug/L)							
1,1,1-Trichloroethane	200	1	2	2 U	1 U	1 U	1 U
1,1,2-Trichloroethane	5	1	2	2 U	1 U	1 U	1 U
1,1-Dichloroethane	2.41809	1	2	2 U	1 U	1 U	1 U
1,1-Dichloroethene	7	1.9	4	3.8	4	2.7	1.9
1,2-Dichloroethane	5	1	2	2 U	1 U	1 U	1 U
1,2-Dichloropropane	5	1	2	2 U	1 U	1 U	1 U
1,3-Dichlorobenzene	86.7327	1	2	2 U	1 U	1 U	1 U
2-Butanone	7064.52	10	20	20 U	10 U	10 U	10 U
4-Methyl-2-Pentanone	1990.91	10	20	20 U	10 U	10 U	10 U
Acetone	21782.9	10	20	20 U	10 U	10 U	10 U
Benzene	5	1	2	2 U	1 U	1 U	1 U
Bromodichloromethane	0.1173	1	2	**2 U [f]**	**1 U [f]**	**1 U [f]**	**1 U [f]**
Bromoform	8.51032	1	2	2 U	1 U	1 U	1 U
Bromomethane	8.66102	1	2	2 U	1 U	1 U	1 U
Carbon Disulfide	1042.86	1	2	2 U	1 U	1 U	1 U
Carbon Tetrachloride	5	1	2	2 U	1 U	1 U	1 U

TABLE 3-31
ANALYTICAL RESULTS FOR WELL AA-01
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
VOLATILES (reported in ug/L)							
Chlorobenzene	100	1	2	2 U	1 U	1 U	1 U
Chloroform	0.19279	5.6	7.8	**6.6**	**7**	**7.8**	**6.8**
Chloromethane	2.7037	1	2	2 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	70	1	2	2 U	1 U	1 U	1 U
Dibromochloromethane	0.14712	1	2	**2 U [f]**	**1 U [f]**	**1 U [f]**	**1 U [f]**
Ethylbenzene	700	1	2	2 U	1 U	1 U	1 U
Methylene Chloride	5	1	2	2 U	1 U	1 U	1 U
Naphthalene	0.14314	1	2	**2 U [f]**	**1 U [f]**	**1 U [f]**	**1 U [f]**
Styrene	100	1	2	2 U	1 U	1 U	1 U
Tetrachloroethene	5	44	93	**80**	**69**	**67**	**44**
Toluene	1000	1	2	2 U	1 U	1 U	1 U
Total Trihalomethanes [e]	80	5.6	7.8	6.6	7	7.8	6.8
Trans-1,2-Dichloroethene	100	1	2	2 U	1 U	1 U	1 U
Trichloroethene	5	0.34	1	0.42 J	0.45 J	0.41 J	1 U
Trichlorofluoromethane	1288.24	1	2	2 U	1 U	1 U	1 U
Vinyl Chloride	2	1	2	2 U	1 U	1 U	1 U
Xylene (Total)	10000	2	4	4 U	2 U	2 U	2 U

TABLE 3-31
ANALYTICAL RESULTS FOR WELL AA-01
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012

Notes:

a NDEP BCL are reported in the same unit as analytical group. Source of NDEP BCL's are from May 2012 update. MCL applied where no BCL exists.
b Bolded results exceed the associated screening level.
c MCL for Adjusted Gross Alpha (Total) was calculated using the following equation
Adjusted Gross Alpha (Total) MCL = Alpha Total - (Uranium 234 + Uranium 235 + Uranium 238)
d MCL for Radium was calculated using the following equation: Radium MCL = Radium 226 + Radium 228
e Total Trihalomethanes were calculated using the following equation:
Total Trihalomethanes = Bromodichloromethane + Bromoform + Chloroform + Dibromochloromethane
f Reporting limit exceeds the screening level due to analytical limitations or sample dilution.

Qualifiers:

J Estimated value
U Analyte not detected; the reporting limit is reported in the table
R Rejected data point

+ Biased high
- Biased low
µg/L Microgram per liter
MCL Maximum contaminant level
MDC Minimum detectable concentration
mg/L Milligram per liter
NA Not anaylzed; or not calculated if components are not detected
pCi/L Picocurie per liter
QTR Quarter
SL Screening level

TABLE 3-32
ANALYTICAL RESULTS FOR WELL AA-09
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
ALKALINITY (reported in mg/L)							
Bicarbonate Alkalinity		61	69	63	64	63	61
ANIONS (reported in mg/L)							
Chloride	4	940	1500	**970**	**1100**	**1200**	**1300**
Nitrate	10	11	21	**12**	**12**	**13**	**14**
Perchlorate	0.018	5.5	8.4	**8.4**	**7.8**	**7.9**	**8.3**
Sulfate	250	2400	2800	**2800**	**2600**	**2400**	**2400**
GENERAL							
Fluoride	4	0.65	1	0.78	1 U	1 U	0.65
Nitrite	1	0.5	1	0.5 U	1 U	1 U	0.5 U
Total Phosphorus		0.05	0.05	0.05 U	0.05 U	0.05 U	0.05 U
RADIONUCLIDES (reported in pCi/L)							
Alpha (Total)		12.8	12.8	NA	NA	NA	NA
Adjusted Gross Alpha (Total) MCL [c]	15	-15.11	-15.11	NA	NA	NA	NA
Beta (Total)	50	34.4	34.4	NA	NA	NA	NA
Uranium 238		6.25	6.25	NA	NA	NA	NA
Uranium 234		8.49	8.49	NA	NA	NA	NA
Thorium 230	0.042	0.111	0.111	NA	NA	NA	NA
Radium 226	5	-0.195	-0.195	NA	NA	NA	NA
Radon 222	300	853	853	NA	NA	NA	NA
Lead 214		-2.04	-2.04	NA	NA	NA	NA
Bismuth 214		-3.57	-3.57	NA	NA	NA	NA
Lead 210		0.899	0.899	NA	NA	NA	NA
Thorium 232	0.14	0.0573	0.0573	NA	NA	NA	NA
Radium 228	5	0.654	0.654	NA	NA	NA	NA
Radium MCL [d]	5	0	0	NA	NA	NA	NA
Actinium-228		14.9	14.9	NA	NA	NA	NA
Thorium 228	0.11	0.0465	0.0465	NA	NA	NA	NA
Lead 212		1.18	1.18	NA	NA	NA	NA
Bismuth 212		39.3	39.3	NA	NA	NA	NA
Thallium 208		0.394	0.394	NA	NA	NA	NA

TABLE 3-32
ANALYTICAL RESULTS FOR WELL AA-09
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
RADIONUCLIDES (reported in pCi/L)							
Potassium 40		36	36	NA	NA	NA	NA
Uranium 235		0.368	0.368	NA	NA	NA	NA
Polonium-210				NA	NA	NA	NA
Protactinium-234		-281	-281	NA	NA	NA	NA
Radium-224		1.18	1.18	NA	NA	NA	NA
Thorium-227		-1.22	-1.22	NA	NA	NA	NA
Thorium-234		-23.7	-23.7	NA	NA	NA	NA
SOLIDS (reported in mg/L)							
Total Dissolved Solids	1900	5200	7500	**5200**	**5700**	**6100**	**6400**
TOTAL METAL (reported in ug/L)							
Aluminum	50	37	1200	500 U [f]	**500 U [f]**	**190 J**	**310 B**
Antimony	6	20	100	**100 U [f]**	**100 U [f]**	**100 U [f]**	**100 U [f]**
Arsenic	10	73	100	**82**	**97**	**83**	**73**
Barium	2000	5.8	27	5.8 J-	7.8 J	10 J	12 B
Beryllium	4	0.39	10	10 U [f]	**10 U [f]**	**2.4 J**	10 U [f]
Cadmium	5	0.4	25	25 U [f]	**25 U [f]**	**25 U [f]**	**25 U [f]**
Calcium		500000	620000	570000	540000	610000	620000
Chromium	100	60	98	98	82	95	98
Chromium VI	100	76	120	120	**NA**	NA	NA
Cobalt	10.95	10	50	50 U [f]	**50 U [f]**	**50 U [f]**	**50 U [f]**
Copper	1300	0.68	50	50 U	50 U	50 U	50 U
Iron	300	23	890	500 U [f]	**500 U [f]**	**160 J**	200 B
Lead	15	3	15	15 U	15 U	15 U	15 U
Lithium	73	180	300	**180 J+**	**210**	**210 J+**	**210**
Magnesium	206955	250000	340000	**260000**	**270000**	**280000**	**280000**
Manganese	20	0.9	50	50 U [f]	**50 U [f]**	**50 U [f]**	**3.2 B**
Mercury	2	0.012	0.2	0.2 U	0.2 U	0.2 U	0.2 U
Molybdenum	182.5	47	57	51	50	47 J	48 B
Nickel	730	2.1	100	100 U	100 U	100 U	100 U

TABLE 3-32
ANALYTICAL RESULTS FOR WELL AA-09
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
TOTAL METAL (reported in ug/L)							
Potassium		28000	56000	28000	36000	32000 J	32000
Selenium	50	27	76	**27**	53	**33**	43
Silicon		31000	37000	31000	37000	35000	35000
Silver	100	10	50	50 U	50 U	50 U	50 U
Sodium		690000	950000	690000	720000	700000 J	730000
Thallium	2	0.07	0.21	0.07 U	0.09 U	0.11 J	0.08 B
Tin	21900	50	250	250 U	250 U	250 U	250 U
Titanium	146000	2.9	100	100 U	100 U	100 U	2.9 B
Uranium	30	14	21	19	15	17	16
Vanadium	182.5	28	37	30 J-	37 J	33 J	28 B
Zinc	10950	20	100	100 U	100 U	100 U	24 B
Zirconium		2.6	100	2.6 J-	8.3 U	14 J	100 U
VOLATILES (reported in ug/L)							
1,1,1-Trichloroethane	200	0.3	4	2 U	1 U	1 U	0.3 U
1,1,2-Trichloroethane	5	0.3	4	2 U	1 U	1 U	0.3 U
1,1-Dichloroethane	2.41809	0.3	4	2 U	1 U	1 U	0.3 U
1,1-Dichloroethene	7	0.38	4	0.93 J	0.64 J	0.73 J	0.63 J
1,2-Dichloroethane	5	0.3	4	2 U	1 U	1 U	0.3 U
1,2-Dichloropropane	5	0.3	4	2 U	1 U	1 U	0.3 U
1,3-Dichlorobenzene	86.7327	0.3	4	2 U	1 U	1 U	0.3 U
2-Butanone	7064.52	3	40	20 U	10 U	10 U	3 U
4-Methyl-2-Pentanone	1990.91	3	40	20 U	10 U	10 U	3 U
Acetone	21782.9	10	20	20 U	10 U	10 U	13
Benzene	5	0.3	4	2 U	1 U	1 U	0.3 U
Bromodichloromethane	0.1173	0.3	4	**2 U [f]**	**1 U [f]**	**1 U [f]**	**0.3 U [f]**
Bromoform	8.51032	0.3	4	2 U	1 U	1 U	0.3 U
Bromomethane	8.66102	0.3	4	2 U	1 U	1 U	0.3 U
Carbon Disulfide	1042.86	0.3	4	2 U	1 U	1 U	0.3 U
Carbon Tetrachloride	5	0.58	1.3	0.88 J	0.61 J	0.84 J	0.58 J

TABLE 3-32
ANALYTICAL RESULTS FOR WELL AA-09
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
VOLATILES (reported in ug/L)							
Chlorobenzene	100	0.3	4	2 U	1 U	1 U	0.3 U
Chloroform	0.19279	50	94	**83**	**56**	**74**	**75**
Chloromethane	2.7037	0.33	4	2 U	1 U	1 U	0.33 U
cis-1,2-Dichloroethene	70	0.3	4	2 U	1 U	1 U	0.3 U
Dibromochloromethane	0.14712	0.3	4	**2 U [f]**	**1 U [f]**	**1 U [f]**	**0.3 U [f]**
Ethylbenzene	700	0.3	4	2 U	1 U	1 U	0.3 U
Methylene Chloride	5	0.32	4	2 U	1 U	1 U	0.32 U
Naphthalene	0.14314	0.42	4	**2 U [f]**	**1 U [f]**	**1 U [f]**	**0.42 U [f]**
Styrene	100	0.3	4	2 U	1 U	1 U	0.3 U
Tetrachloroethene	5	4.2	14	14	**9.8**	**10**	**11**
Toluene	1000	0.3	4	2 U	1 U	1 U	0.3 U
Total Trihalomethanes [e]	80	50	94	83	**56**	74	75
Trans-1,2-Dichloroethene	100	0.3	4	2 U	1 U	1 U	0.3 U
Trichloroethene	5	0.38	4	0.67 J	0.48 J	0.61 J	0.57 J
Trichlorofluoromethane	1288.24	0.3	4	2 U	1 U	1 U	0.3 U
Vinyl Chloride	2	0.3	4	2 U	1 U	1 U	0.3 U
Xylene (Total)	10000	0.6	4	4 U	2 U	2 U	0.6 U

TABLE 3-32
ANALYTICAL RESULTS FOR WELL AA-09
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012

Notes:

a NDEP BCL are reported in the same unit as analytical group. Source of NDEP BCL's are from May 2012 update. MCL applied where no BCL exists.
b Bolded results exceed the associated screening level.
c MCL for Adjusted Gross Alpha (Total) was calculated using the following equation
Adjusted Gross Alpha (Total) MCL = Alpha Total - (Uranium 234 + Uranium 235 + Uranium 238)
d MCL for Radium was calculated using the following equation: Radium MCL = Radium 226 + Radium 228
e Total Trihalomethanes were calculated using the following equation:
Total Trihalomethanes = Bromodichloromethane + Bromoform + Chloroform + Dibromochloromethane
f Reporting limit exceeds the screening level due to analytical limitations or sample dilution.

Qualifiers:

J Estimated value
U Analyte not detected; the reporting limit is reported in the table
R Rejected data point

+ Biased high
- Biased low
µg/L Microgram per liter
MCL Maximum contaminant level
MDC Minimum detectable concentration
mg/L Milligram per liter
NA Not anaylzed; or not calculated if components are not detected
pCi/L Picocurie per liter
QTR Quarter
SL Screening level

TABLE 3-33
ANALYTICAL RESULTS FOR WELL AA-11
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
ALKALINITY (reported in mg/L)							
Bicarbonate Alkalinity		84	85	85	84	NA	NA
ANIONS (reported in mg/L)							
Chloride	4	820	970	**920**	**970**	**NA**	NA
Nitrate	10	7.8	9.1	8.6	9.1	NA	NA
Perchlorate	0.018	3.5	3.6	**3.6**	**3.5**	**NA**	NA
Sulfate	250	2000	2100	**2100**	**2000**	**NA**	NA
GENERAL							
Fluoride	4	0.98	1.1	0.98	1 U	NA	NA
Nitrite	1	0.5	1	0.5 U	1 U	NA	NA
Total Phosphorus		0.05	0.16	0.05 U	0.16	NA	NA
RADIONUCLIDES (reported in pCi/L)							
Alpha (Total)				NA	NA	NA	NA
Adjusted Gross Alpha (Total) MCL [c]	15	0	0	NA	NA	NA	NA
Beta (Total)	50			NA	NA	NA	NA
Uranium 238				NA	NA	NA	NA
Uranium 234				NA	NA	NA	NA
Thorium 230	0.042			NA	NA	NA	NA
Radium 226	5			NA	NA	NA	NA
Radon 222	300			NA	NA	NA	NA
Lead 214				NA	NA	NA	NA
Bismuth 214				NA	NA	NA	NA
Lead 210				NA	NA	NA	NA
Thorium 232	0.14			NA	NA	NA	NA
Radium 228	5			NA	NA	NA	NA
Radium MCL [d]	5	0	0	NA	NA	NA	NA
Actinium-228				NA	NA	NA	NA
Thorium 228	0.11			NA	NA	NA	NA
Lead 212				NA	NA	NA	NA
Bismuth 212				NA	NA	NA	NA
Thallium 208				NA	NA	NA	NA

TABLE 3-33
ANALYTICAL RESULTS FOR WELL AA-11
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
RADIONUCLIDES (reported in pCi/L)							
Potassium 40				NA	NA	NA	NA
Uranium 235				NA	NA	NA	NA
Polonium-210				NA	NA	NA	NA
Protactinium-234				NA	NA	NA	NA
Radium-224				NA	NA	NA	NA
Thorium-227				NA	NA	NA	NA
Thorium-234				NA	NA	NA	NA
SOLIDS (reported in mg/L)							
Total Dissolved Solids	1900	4300	5000	**4500**	**5000**	**NA**	NA
TOTAL METAL (reported in ug/L)							
Aluminum	50	100	500	**500 U [f]**	**350 U [f]**	**NA**	NA
Antimony	6	20	100	**100 U [f]**	**100 U [f]**	**NA**	NA
Arsenic	10	54	65	**62**	**65**	**NA**	NA
Barium	2000	8.1	9.7	8.1 J-	9.1 J-	NA	NA
Beryllium	4	2	10	10 U [f]	**10 U [f]**	**NA**	NA
Cadmium	5	5	25	25 U [f]	**25 U [f]**	**NA**	NA
Calcium		580000	620000	580000	620000	NA	NA
Chromium	100	18	26	18 U	26 J-	NA	NA
Chromium VI	100	19	23	23	NA	NA	NA
Cobalt	10.95	10	50	50 U [f]	**50 U [f]**	**NA**	NA
Copper	1300	10	50	50 U	50 U	NA	NA
Iron	300	94	500	500 U [f]	**280 J-**	NA	NA
Lead	15	3	15	15 U	15 U	NA	NA
Lithium	73	290	350	**290 J+**	**320 J+**	**NA**	NA
Magnesium	206955	190000	210000	190000	210000	**NA**	NA
Manganese	20	0.67	31	**0.67 U**	22 J-	**NA**	NA
Mercury	2	0.2	0.2	0.2 U	0.2 U	NA	NA
Molybdenum	182.5	32	38	32 J-	32 J-	NA	NA
Nickel	730	24	100	100 U	100 U	NA	NA

TABLE 3-33
ANALYTICAL RESULTS FOR WELL AA-11
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
TOTAL METAL (reported in ug/L)							
Potassium		15000	20000	15000	15000 J+	NA	NA
Selenium	50	4.9	25	25 U	25 U	NA	NA
Silicon		40000	46000	40000	46000	NA	NA
Silver	100	10	50	50 U	50 U	NA	NA
Sodium		460000	530000	490000	530000	NA	NA
Thallium	2	0.1	0.2	0.1 U	0.11 U	NA	NA
Tin	21900	50	250	250 U	250 U	NA	NA
Titanium	146000	20	100	100 U	100 U	NA	NA
Uranium	30	30	33	32	**33**	**NA**	NA
Vanadium	182.5	23	31	26 J-	31 J	NA	NA
Zinc	10950	16	100	100 U	58 U	NA	NA
Zirconium		2.7	20	2.7 J-	5.8 U	NA	NA
VOLATILES (reported in ug/L)							
1,1,1-Trichloroethane	200	1	1	1 U	1 U	NA	NA
1,1,2-Trichloroethane	5	1	1	1 U	1 U	NA	NA
1,1-Dichloroethane	2.41809	0.19	0.26	0.26 J	0.21 J	NA	NA
1,1-Dichloroethene	7	0.28	0.65	0.65 J	0.53 J	NA	NA
1,2-Dichloroethane	5	1	1	1 U	1 U	NA	NA
1,2-Dichloropropane	5	1	1	1 U	1 U	NA	NA
1,3-Dichlorobenzene	86.7327	1	1	1 U	1 U	NA	NA
2-Butanone	7064.52	10	10	10 U	10 U	NA	NA
4-Methyl-2-Pentanone	1990.91	10	10	10 U	10 U	NA	NA
Acetone	21782.9	10	10	10 U	10 U	NA	NA
Benzene	5	1	1	1 U	1 U	NA	NA
Bromodichloromethane	0.1173	1	1	**1 U [f]**	**1 U [f]**	**NA**	NA
Bromoform	8.51032	1	1	1 U	1 U	NA	NA
Bromomethane	8.66102	1	1	1 U	1 U	NA	NA
Carbon Disulfide	1042.86	1	1	1 U	1 U	NA	NA
Carbon Tetrachloride	5	1	1	1 U	1 U	NA	NA

TABLE 3-33
ANALYTICAL RESULTS FOR WELL AA-11
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
VOLATILES (reported in ug/L)							
Chlorobenzene	100	1	1	1 U	1 U	NA	NA
Chloroform	0.19279	14	19	**18**	**19**	**NA**	NA
Chloromethane	2.7037	1	1	1 U	1 U	NA	NA
cis-1,2-Dichloroethene	70	1	1	1 U	1 U	NA	NA
Dibromochloromethane	0.14712	1	1	**1 U [f]**	**1 U [f]**	**NA**	NA
Ethylbenzene	700	1	1	1 U	1 U	NA	NA
Methylene Chloride	5	1	1	1 U	1 U	NA	NA
Naphthalene	0.14314	1	1	**1 U [f]**	**1 U [f]**	**NA**	NA
Styrene	100	1	1	1 U	1 U	NA	NA
Tetrachloroethene	5	4.1	6.4	6.4	**4.7**	NA	NA
Toluene	1000	1	1	1 U	1 U	NA	NA
Total Trihalomethanes [e]	80	14	19	18	19	NA	NA
Trans-1,2-Dichloroethene	100	1	1	1 U	1 U	NA	NA
Trichloroethene	5	1.1	1.4	1.4	1.3	NA	NA
Trichlorofluoromethane	1288.24	1	1	1 U	1 U	NA	NA
Vinyl Chloride	2	1	1	1 U	1 U	NA	NA
Xylene (Total)	10000	2	2	2 U	2 U	NA	NA

TABLE 3-33
ANALYTICAL RESULTS FOR WELL AA-11
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012

Notes:

a NDEP BCL are reported in the same unit as analytical group. Source of NDEP BCL's are from May 2012 update. MCL applied where no BCL exists.
b Bolded results exceed the associated screening level.
c MCL for Adjusted Gross Alpha (Total) was calculated using the following equation
Adjusted Gross Alpha (Total) MCL = Alpha Total - (Uranium 234 + Uranium 235 + Uranium 238)
d MCL for Radium was calculated using the following equation: Radium MCL = Radium 226 + Radium 228
e Total Trihalomethanes were calculated using the following equation:
Total Trihalomethanes = Bromodichloromethane + Bromoform + Chloroform + Dibromochloromethane
f Reporting limit exceeds the screening level due to analytical limitations or sample dilution.

Qualifiers:

J Estimated value
U Analyte not detected; the reporting limit is reported in the table
R Rejected data point

+ Biased high
- Biased low
µg/L Microgram per liter
MCL Maximum contaminant level
MDC Minimum detectable concentration
mg/L Milligram per liter
NA Not anaylzed; or not calculated if components are not detected
pCi/L Picocurie per liter
QTR Quarter
SL Screening level

TABLE 3-34
ANALYTICAL RESULTS FOR WELL AA-20
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
ALKALINITY (reported in mg/L)							
Bicarbonate Alkalinity		77	87	85	86	NA	NA
ANIONS (reported in mg/L)							
Chloride	4	1100	1100	**1100**	**1100**	**NA**	NA
Nitrate	10	11	19	**12**	**11**	**NA**	NA
Perchlorate	0.018	4.7	6.6	**5.2**	**4.7**	**NA**	NA
Sulfate	250	2300	2700	**2700**	**2700**	**NA**	NA
GENERAL							
Fluoride	4	0.57	1	0.57	1 U	NA	NA
Nitrite	1	0.5	1	0.5 U	1 U	NA	NA
Total Phosphorus		0.05	0.05	0.05 U	0.05 U	NA	NA
RADIONUCLIDES (reported in pCi/L)							
Alpha (Total)		1.65	1.65	NA	NA	NA	NA
Adjusted Gross Alpha (Total) MCL [c]	15	-13.33	-13.33	NA	NA	NA	NA
Beta (Total)	50	34	34	NA	NA	NA	NA
Uranium 238		5.94	5.94	NA	NA	NA	NA
Uranium 234		7.11	7.11	NA	NA	NA	NA
Thorium 230	0.042	-0.044	-0.044	NA	NA	NA	NA
Radium 226	5	0.425	0.425	NA	NA	NA	NA
Radon 222	300	2730	2730	NA	NA	NA	NA
Lead 214		10.6	10.6	NA	NA	NA	NA
Bismuth 214		4.35	4.35	NA	NA	NA	NA
Lead 210		0.802	0.802	NA	NA	NA	NA
Thorium 232	0.14	-0.00435	-0.00435	NA	NA	NA	NA
Radium 228	5	0.842	0.842	NA	NA	NA	NA
Radium MCL [d]	5	1.27	1.27	NA	NA	NA	NA
Actinium-228		9.44	9.44	NA	NA	NA	NA
Thorium 228	0.11	0.0205	0.0205	NA	NA	NA	NA
Lead 212		-0.103	-0.103	NA	NA	NA	NA
Bismuth 212		6.63	6.63	NA	NA	NA	NA
Thallium 208		-0.434	-0.434	NA	NA	NA	NA

TABLE 3-34
ANALYTICAL RESULTS FOR WELL AA-20
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
RADIONUCLIDES (reported in pCi/L)							
Potassium 40		8.95	8.95	NA	NA	NA	NA
Uranium 235		0.28	0.28	NA	NA	NA	NA
Polonium-210				NA	NA	NA	NA
Protactinium-234		-212	-212	NA	NA	NA	NA
Radium-224		-0.103	-0.103	NA	NA	NA	NA
Thorium-227		-3.52	-3.52	NA	NA	NA	NA
Thorium-234		-1.44	-1.44	NA	NA	NA	NA
SOLIDS (reported in mg/L)							
Total Dissolved Solids	1900	5500	6300	**5500**	**6000**	**NA**	NA
TOTAL METAL (reported in ug/L)							
Aluminum	50	22	500	500 U [f]	**500 U [f]**	**NA**	NA
Antimony	6	20	100	**100 U [f]**	**100 U [f]**	**NA**	NA
Arsenic	10	95	110	**110**	**110**	**NA**	NA
Barium	2000	4.6	9.2	4.6 J-	5.9 J-	NA	NA
Beryllium	4	0.33	10	10 U [f]	**10 U [f]**	**NA**	NA
Cadmium	5	0.37	25	25 U [f]	**25 U [f]**	**NA**	NA
Calcium		600000	630000	610000	630000	NA	NA
Chromium	100	52	73	52	56	NA	NA
Chromium VI	100	70	95	70	NA	NA	NA
Cobalt	10.95	0.53	50	50 U [f]	**50 U [f]**	**NA**	NA
Copper	1300	10	50	50 U	50 U	NA	NA
Iron	300	17	500	500 U [f]	**500 U [f]**	**NA**	NA
Lead	15	2.5	15	15 U	15 U	NA	NA
Lithium	73	290	350	**290 J+**	**320 J+**	**NA**	NA
Magnesium	206955	230000	260000	**240000**	**260000**	**NA**	NA
Manganese	20	0.56	50	50 U [f]	**50 U [f]**	**NA**	NA
Mercury	2	0.2	0.2	0.2 U	0.2 U	NA	NA
Molybdenum	182.5	210	390	**300**	**390**	**NA**	NA
Nickel	730	2.7	100	100 U	100 U	NA	NA

TABLE 3-34
ANALYTICAL RESULTS FOR WELL AA-20
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
TOTAL METAL (reported in ug/L)							
Potassium		47000	60000	47000	47000 J+	NA	NA
Selenium	50	29	92	**75**	**92**	**NA**	NA
Silicon		34000	39000	34000	39000	NA	NA
Silver	100	0.83	50	50 U	50 U	NA	NA
Sodium		690000	740000	740000	710000	NA	NA
Thallium	2	0.23	0.34	0.26	0.23	NA	NA
Tin	21900	4.2	250	250 U	250 U	NA	NA
Titanium	146000	20	100	100 U	100 U	NA	NA
Uranium	30	19	21	20	21	NA	NA
Vanadium	182.5	33	41	33 J-	41 J	NA	NA
Zinc	10950	20	240	100 U	100 U	NA	NA
Zirconium		5.8	20	12 J-	5.8 U	NA	NA
VOLATILES (reported in ug/L)							
1,1,1-Trichloroethane	200	1	4	2 U	1 U	NA	NA
1,1,2-Trichloroethane	5	1	4	2 U	1 U	NA	NA
1,1-Dichloroethane	2.41809	0.17	4	2 U	0.17 J	NA	NA
1,1-Dichloroethene	7	0.2	4	2 U	0.2 J	NA	NA
1,2-Dichloroethane	5	1	4	2 U	1 U	NA	NA
1,2-Dichloropropane	5	1	4	2 U	1 U	NA	NA
1,3-Dichlorobenzene	86.7327	1	4	2 U	1 U	NA	NA
2-Butanone	7064.52	10	40	20 U	10 U	NA	NA
4-Methyl-2-Pentanone	1990.91	10	40	20 U	10 U	NA	NA
Acetone	21782.9	10	20	20 U	10 U	NA	NA
Benzene	5	1	4	2 U	1 U	NA	NA
Bromodichloromethane	0.1173	1	4	**2 U [f]**	**1 U [f]**	**NA**	NA
Bromoform	8.51032	1	4	2 U	1 U	NA	NA
Bromomethane	8.66102	1	4	2 U	1 U	NA	NA
Carbon Disulfide	1042.86	1	4	2 U	1 U	NA	NA
Carbon Tetrachloride	5	0.87	1.4	1.4 J	0.95 J	NA	NA

TABLE 3-34
ANALYTICAL RESULTS FOR WELL AA-20
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
VOLATILES (reported in ug/L)							
Chlorobenzene	100	1	4	2 U	1 U	NA	NA
Chloroform	0.19279	78	110	**86**	**85**	**NA**	NA
Chloromethane	2.7037	1	4	2 U	1 U	NA	NA
cis-1,2-Dichloroethene	70	1	4	2 U	1 U	NA	NA
Dibromochloromethane	0.14712	1	4	**2 U [f]**	**1 U [f]**	**NA**	NA
Ethylbenzene	700	1	4	2 U	1 U	NA	NA
Methylene Chloride	5	1	3.3	2 U	1 U	NA	NA
Naphthalene	0.14314	1	4	**2 U [f]**	**1 U [f]**	**NA**	NA
Styrene	100	1	4	2 U	1 U	NA	NA
Tetrachloroethene	5	6.3	9.3	**9.3**	**6.4**	**NA**	NA
Toluene	1000	1	4	2 U	1 U	NA	NA
Total Trihalomethanes [e]	80	78	110	86	**85**	**NA**	NA
Trans-1,2-Dichloroethene	100	1	4	2 U	1 U	NA	NA
Trichloroethene	5	0.31	4	0.56 J	1	NA	NA
Trichlorofluoromethane	1288.24	1	4	2 U	1 U	NA	NA
Vinyl Chloride	2	1	4	2 U	1 U	NA	NA
Xylene (Total)	10000	2	4	4 U	2 U	NA	NA

TABLE 3-34
ANALYTICAL RESULTS FOR WELL AA-20
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012

Notes:

a NDEP BCL are reported in the same unit as analytical group. Source of NDEP BCL's are from May 2012 update. MCL applied where no BCL exists.
b Bolded results exceed the associated screening level.
c MCL for Adjusted Gross Alpha (Total) was calculated using the following equation
Adjusted Gross Alpha (Total) MCL = Alpha Total - (Uranium 234 + Uranium 235 + Uranium 238)
d MCL for Radium was calculated using the following equation: Radium MCL = Radium 226 + Radium 228
e Total Trihalomethanes were calculated using the following equation:
Total Trihalomethanes = Bromodichloromethane + Bromoform + Chloroform + Dibromochloromethane
f Reporting limit exceeds the screening level due to analytical limitations or sample dilution.

Qualifiers:

J Estimated value
U Analyte not detected; the reporting limit is reported in the table
R Rejected data point

+ Biased high
- Biased low
µg/L Microgram per liter
MCL Maximum contaminant level
MDC Minimum detectable concentration
mg/L Milligram per liter
NA Not anaylzed; or not calculated if components are not detected
pCi/L Picocurie per liter
QTR Quarter
SL Screening level

TABLE 3-35
ANALYTICAL RESULTS FOR WELL AA-27
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
ALKALINITY (reported in mg/L)							
Bicarbonate Alkalinity		130	130	130	130	130	130
ANIONS (reported in mg/L)							
Chloride	4	380	450	**430**	**450**	**380**	**390**
Nitrate	10	12	13	**13**	**12**	**12**	**12**
Perchlorate	0.018	0.26	0.29	**0.26**	**0.26**	**0.26**	**0.29**
Sulfate	250	2200	2400	**2400**	**2300**	**2200**	**2300**
GENERAL							
Fluoride	4	1.7	2.1	1.9	2.1	1.9	1.7
Nitrite	1	0.5	0.5	0.5 U	0.5 U	0.5 U	0.5 U
Total Phosphorus		0.05	0.078	0.05 U	0.05 U	0.05 U	0.078
RADIONUCLIDES (reported in pCi/L)							
Alpha (Total)				NA	NA	NA	NA
Adjusted Gross Alpha (Total) MCL [c]	15	0	0	NA	NA	NA	NA
Beta (Total)	50			NA	NA	NA	NA
Uranium 238				NA	NA	NA	NA
Uranium 234				NA	NA	NA	NA
Thorium 230	0.042			NA	NA	NA	NA
Radium 226	5			NA	NA	NA	NA
Radon 222	300			NA	NA	NA	NA
Lead 214				NA	NA	NA	NA
Bismuth 214				NA	NA	NA	NA
Lead 210				NA	NA	NA	NA
Thorium 232	0.14			NA	NA	NA	NA
Radium 228	5			NA	NA	NA	NA
Radium MCL [d]	5	0	0	NA	NA	NA	NA
Actinium-228				NA	NA	NA	NA
Thorium 228	0.11			NA	NA	NA	NA
Lead 212				NA	NA	NA	NA
Bismuth 212				NA	NA	NA	NA
Thallium 208				NA	NA	NA	NA

TABLE 3-35
ANALYTICAL RESULTS FOR WELL AA-27
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
RADIONUCLIDES (reported in pCi/L)							
Potassium 40				NA	NA	NA	NA
Uranium 235				NA	NA	NA	NA
Polonium-210				NA	NA	NA	NA
Protactinium-234				NA	NA	NA	NA
Radium-224				NA	NA	NA	NA
Thorium-227				NA	NA	NA	NA
Thorium-234				NA	NA	NA	NA
SOLIDS (reported in mg/L)							
Total Dissolved Solids	1900	4000	4500	**4300**	**4000**	**4300**	**4500**
TOTAL METAL (reported in ug/L)							
Aluminum	50	26	500	**97 U [f]**	**26 J-**	500 U [f]	**100 B**
Antimony	6	20	100	**100 U [f]**	**20 U [f]**	**100 U [f]**	**100 U [f]**
Arsenic	10	41	46	**41**	**42**	**46**	**43**
Barium	2000	7.3	13	8.3 J-	11 J	7.3 J	8.8 B
Beryllium	4	1.9	10	10 U [f]	**2 U**	1.9 J	10 U [f]
Cadmium	5	5	25	25 U [f]	**5 U**	25 U [f]	**25 U [f]**
Calcium		530000	560000	560000 J-	550000	540000	530000
Chromium	100	16	23	16 J-	23	18 J	22 B
Chromium VI	100	29	34	34	NA	NA	NA
Cobalt	10.95	10	50	50 U [f]	**10 U**	50 U [f]	**50 U [f]**
Copper	1300	10	50	50 U	10 U	50 U	50 U
Iron	300	39	500	49 U	42 U	500 U [f]	**39 B**
Lead	15	1.9	15	15 U	1.9 J	15 U	15 U
Lithium	73	220	270	**220 J+**	**270 J+**	**220 J+**	**220**
Magnesium	206955	170000	190000	180000 J-	170000	190000	180000
Manganese	20	1	50	1.2 J-	1 J-	50 U [f]	**2 B**
Mercury	2	0.0049	0.2	0.2 U	0.016 U	0.0049 J	0.2 U
Molybdenum	182.5	21	31	25 J-	31	27 J	21 B
Nickel	730	2.1	100	100 U	2.1 J	100 U	100 U

TABLE 3-35
ANALYTICAL RESULTS FOR WELL AA-27
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
TOTAL METAL (reported in ug/L)							
Potassium		8900	14000	10000	12000 J+	8900 J	9400
Selenium	50	6.8	25	25 U	6.8	25 U	15 B
Silicon		37000	41000	38000 J-	37000	40000	41000
Silver	100	10	50	50 U	10 U	50 U	50 U
Sodium		390000	430000	420000 J-	430000 J+	410000 J	430000
Thallium	2	0.03	0.2	0.2 U	0.06 U	0.03 J	0.2 U
Tin	21900	50	250	250 U	50 U	250 U	250 U
Titanium	146000	3.7	100	100 U	20 U	100 U	100 U
Uranium	30	63	73	**69**	**63**	**73**	**73**
Vanadium	182.5	12	15	15 U	14	12 J	14 B
Zinc	10950	0.84	100	100 U	0.84 U	100 U	100 U
Zirconium		5.4	100	5.4 U	20 U	11 J	100 U
VOLATILES (reported in ug/L)							
1,1,1-Trichloroethane	200	0.3	1	1 U	1 U	1 U	0.3 U
1,1,2-Trichloroethane	5	0.3	1	1 U	1 U	1 U	0.3 U
1,1-Dichloroethane	2.41809	0.3	1	1 U	1 U	1 U	0.3 U
1,1-Dichloroethene	7	0.3	1	1 U	1 U	1 U	0.3 U
1,2-Dichloroethane	5	0.3	1	1 U	1 U	1 U	0.3 U
1,2-Dichloropropane	5	0.3	1	1 U	1 U	1 U	0.3 U
1,3-Dichlorobenzene	86.7327	0.3	1	1 U	1 U	1 U	0.3 U
2-Butanone	7064.52	3	10	10 U	10 U	10 U	3 U
4-Methyl-2-Pentanone	1990.91	3	10	10 U	10 U	10 U	3 U
Acetone	21782.9	6.4	10	10 U	10 U	10 U	6.4 U
Benzene	5	0.3	1	1 U	1 U	1 U	0.3 U
Bromodichloromethane	0.1173	0.3	1	**1 U [f]**	**1 U [f]**	**1 U [f]**	**0.3 U [f]**
Bromoform	8.51032	0.3	1	1 U	1 U	1 U	0.3 U
Bromomethane	8.66102	0.3	1	1 U	1 U	1 U	0.3 U
Carbon Disulfide	1042.86	0.3	1	1 U	1 U	1 U	0.3 U
Carbon Tetrachloride	5	0.3	1	1 U	1 U	1 U	0.3 U

TABLE 3-35
ANALYTICAL RESULTS FOR WELL AA-27
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
VOLATILES (reported in ug/L)							
Chlorobenzene	100	0.3	1	1 U	1 U	1 U	0.3 U
Chloroform	0.19279	1.3	1.9	**1.5**	**1.8**	**1.9**	**1.8**
Chloromethane	2.7037	0.33	1	1 U	1 U	1 U	0.33 U
cis-1,2-Dichloroethene	70	0.3	1	1 U	1 U	1 U	0.3 U
Dibromochloromethane	0.14712	0.3	1	**1 U [f]**	**1 U [f]**	**1 U [f]**	**0.3 U [f]**
Ethylbenzene	700	0.3	1	1 U	1 U	1 U	0.3 U
Methylene Chloride	5	0.32	1	1 U	1 U	1 U	0.32 U
Naphthalene	0.14314	0.42	1	**1 U [f]**	**1 U [f]**	**1 U [f]**	**0.42 U [f]**
Styrene	100	0.3	1	1 U	1 U	1 U	0.3 U
Tetrachloroethene	5	0.19	1	1 U	1 U	1 U	0.19 U
Toluene	1000	0.3	1	1 U	1 U	1 U	0.3 U
Total Trihalomethanes [e]	80	1.3	1.9	1.5	1.8	1.9	1.8
Trans-1,2-Dichloroethene	100	0.3	1	1 U	1 U	1 U	0.3 U
Trichloroethene	5	0.3	1	1 U	1 U	1 U	0.3 U
Trichlorofluoromethane	1288.24	0.3	1	1 U	1 U	1 U	0.3 U
Vinyl Chloride	2	0.3	1	1 U	1 U	1 U	0.3 U
Xylene (Total)	10000	0.6	2	2 U	2 U	NA	0.6 U

TABLE 3-35
ANALYTICAL RESULTS FOR WELL AA-27
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012

Notes:

a NDEP BCL are reported in the same unit as analytical group. Source of NDEP BCL's are from May 2012 update. MCL applied where no BCL exists.
b Bolded results exceed the associated screening level.
c MCL for Adjusted Gross Alpha (Total) was calculated using the following equation
Adjusted Gross Alpha (Total) MCL = Alpha Total - (Uranium 234 + Uranium 235 + Uranium 238)
d MCL for Radium was calculated using the following equation: Radium MCL = Radium 226 + Radium 228
e Total Trihalomethanes were calculated using the following equation:
Total Trihalomethanes = Bromodichloromethane + Bromoform + Chloroform + Dibromochloromethane
f Reporting limit exceeds the screening level due to analytical limitations or sample dilution.

Qualifiers:

J Estimated value
U Analyte not detected; the reporting limit is reported in the table
R Rejected data point

+ Biased high
- Biased low
µg/L Microgram per liter
MCL Maximum contaminant level
MDC Minimum detectable concentration
mg/L Milligram per liter
NA Not anaylzed; or not calculated if components are not detected
pCi/L Picocurie per liter
QTR Quarter
SL Screening level

TABLE 3-36
ANALYTICAL RESULTS FOR WELL AA-UW1
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
ALKALINITY (reported in mg/L)							
Bicarbonate Alkalinity		40	87	40	85	87	85
ANIONS (reported in mg/L)							
Chloride	4	380	440	**440**	**410**	**380**	**380**
Nitrate	10	3.9	5.4	5.4	4	3.9	4.6
Perchlorate	0.018	0.61	0.81	**0.68**	**0.78**	**0.75**	**0.61**
Sulfate	250	2100	2300	**2300**	**2300**	**2100**	**2100**
GENERAL							
Fluoride	4	0.9	1.4	1.4	0.9	1.1	1.4
Nitrite	1	0.5	0.5	0.5 U	0.5 U	0.5 U	0.5 U
Total Phosphorus		0.05	0.082	0.05 U	0.061	0.05 U	0.05 U
RADIONUCLIDES (reported in pCi/L)							
Alpha (Total)				NA	NA	NA	NA
Adjusted Gross Alpha (Total) MCL [c]	15	0	0	NA	NA	NA	NA
Beta (Total)	50			NA	NA	NA	NA
Uranium 238				NA	NA	NA	NA
Uranium 234				NA	NA	NA	NA
Thorium 230	0.042			NA	NA	NA	NA
Radium 226	5			NA	NA	NA	NA
Radon 222	300			NA	NA	NA	NA
Lead 214				NA	NA	NA	NA
Bismuth 214				NA	NA	NA	NA
Lead 210				NA	NA	NA	NA
Thorium 232	0.14			NA	NA	NA	NA
Radium 228	5			NA	NA	NA	NA
Radium MCL [d]	5	0	0	NA	NA	NA	NA
Actinium-228				NA	NA	NA	NA
Thorium 228	0.11			NA	NA	NA	NA
Lead 212				NA	NA	NA	NA
Bismuth 212				NA	NA	NA	NA
Thallium 208				NA	NA	NA	NA

TABLE 3-36
ANALYTICAL RESULTS FOR WELL AA-UW1
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
RADIONUCLIDES (reported in pCi/L)							
Potassium 40				NA	NA	NA	NA
Uranium 235				NA	NA	NA	NA
Polonium-210				NA	NA	NA	NA
Protactinium-234				NA	NA	NA	NA
Radium-224				NA	NA	NA	NA
Thorium-227				NA	NA	NA	NA
Thorium-234				NA	NA	NA	NA
SOLIDS (reported in mg/L)							
Total Dissolved Solids	1900	3900	4100	**3900**	**4000**	**4000**	**4100**
TOTAL METAL (reported in ug/L)							
Aluminum	50	40	500	500 U [f]	**450**	**500 U [f]**	**76 U [f]**
Antimony	6	15	100	**100 U [f]**	**20 U [f]**	**100 U [f]**	**15 U [f]**
Arsenic	10	61	110	**61**	**100**	**110**	**62**
Barium	2000	7.8	23	7.8 J-	23 J	18 J	8.4 J
Beryllium	4	0.88	10	10 U [f]	**2 U**	1.7 J	0.88 U
Cadmium	5	0.34	25	25 U [f]	**0.34 J-**	25 U [f]	**1.6 U**
Calcium		450000	590000	590000 J-	450000	460000	570000
Chromium	100	2.6	50	50 U	21	21 J	2.6 U
Chromium VI	100	10	12	10 U	NA	NA	NA
Cobalt	10.95	2.2	50	50 U [f]	**10 U**	50 U [f]	**2.2 U**
Copper	1300	4.8	50	50 U	10 U	50 U	4.8 U
Iron	300	25	500	75 U	450	**500 U [f]**	**25 U**
Lead	15	1.6	15	15 U	3 U	15 U	6.4 U
Lithium	73	150	200	**170 J+**	**190 J+**	**150 J+**	**170**
Magnesium	206955	200000	230000	200000 J-	210000	**230000**	**200000**
Manganese	20	9.4	36	**36 J-**	**31**	**9.4 J**	19 J
Mercury	2	0.0029	0.2	0.042 J-	0.029 U	0.0036 J	0.0029 U
Molybdenum	182.5	22	40	22 J-	40	33 J	30 J
Nickel	730	2.9	100	100 U	2.9 J	100 U	4.7 U

TABLE 3-36
ANALYTICAL RESULTS FOR WELL AA-UW1
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
TOTAL METAL (reported in ug/L)							
Potassium		6500	13000	7800	13000 J+	9600 J	6500
Selenium	50	5	25	25 U	5 U	25 U	13 U
Silicon		39000	43000	39000 J-	41000	43000	41000
Silver	100	5.4	50	50 U	10 U	50 U	5.4 U
Sodium		260000	370000	260000 J-	360000 J+	370000 J	270000
Thallium	2	0.016	0.2	0.04 U	0.07 U	0.2 U	0.016 U
Tin	21900	14	250	250 U	50 U	250 U	14 U
Titanium	146000	1.4	100	100 U	14 J-	100 U	1.4 U
Uranium	30	30	52	**52**	**31**	**30**	51
Vanadium	182.5	36	39	39 U	36	39 J	38 J
Zinc	10950	1.8	100	100 U	14 U	100 U	3.6 U
Zirconium		2.5	100	100 U	20 U	11 J	2.5 U
VOLATILES (reported in ug/L)							
1,1,1-Trichloroethane	200	0.3	2	2 U	1 U	1 U	0.3 U
1,1,2-Trichloroethane	5	0.3	2	2 U	1 U	1 U	0.3 U
1,1-Dichloroethane	2.41809	0.69	1.3	0.86 J	1.1	1.3	0.69 J
1,1-Dichloroethene	7	3.6	8.2	5.9	7.5	**8.2**	**3.6**
1,2-Dichloroethane	5	0.3	2	2 U	1 U	1 U	0.3 U
1,2-Dichloropropane	5	0.3	2	2 U	1 U	1 U	0.3 U
1,3-Dichlorobenzene	86.7327	0.3	2	2 U	1 U	1 U	0.3 U
2-Butanone	7064.52	3	20	20 U	10 U	10 U	3 U
4-Methyl-2-Pentanone	1990.91	3	20	20 U	10 U	10 U	3 U
Acetone	21782.9	6.4	20	20 U	10 U	10 U	6.4 U
Benzene	5	0.3	2	2 U	1 U	1 U	0.3 U
Bromodichloromethane	0.1173	0.3	2	**2 U [f]**	**1 U [f]**	**1 U [f]**	**0.3 U [f]**
Bromoform	8.51032	0.3	2	2 U	1 U	1 U	0.3 U
Bromomethane	8.66102	0.3	2	2 U	1 U	1 U	0.3 U
Carbon Disulfide	1042.86	0.3	2	2 U	1 U	1 U	0.3 U
Carbon Tetrachloride	5	0.3	2	2 U	1 U	1 U	0.3 U

TABLE 3-36
ANALYTICAL RESULTS FOR WELL AA-UW1
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
VOLATILES (reported in ug/L)							
Chlorobenzene	100	0.3	2	2 U	1 U	1 U	0.3 U
Chloroform	0.19279	0.82	1.4	**0.95 J**	**1.3**	**1.4**	**0.82 J**
Chloromethane	2.7037	0.33	2	2 U	1 U	1 U	0.33 U
cis-1,2-Dichloroethene	70	0.3	2	2 U	1 U	1 U	0.3 U
Dibromochloromethane	0.14712	0.3	2	**2 U [f]**	**1 U [f]**	**1 U [f]**	**0.3 U [f]**
Ethylbenzene	700	0.3	2	2 U	1 U	1 U	0.3 U
Methylene Chloride	5	0.32	2	2 U	1 U	1 U	0.32 U
Naphthalene	0.14314	0.42	2	**2 U [f]**	**1 U [f]**	**1 U [f]**	**0.42 U [f]**
Styrene	100	0.3	2	2 U	1 U	1 U	0.3 U
Tetrachloroethene	5	27	61	**61**	**27**	**38**	**38**
Toluene	1000	0.3	2	2 U	1 U	1 U	0.3 U
Total Trihalomethanes [e]	80	0.82	1.4	0.95	1.3	1.4	0.82
Trans-1,2-Dichloroethene	100	0.3	2	2 U	1 U	1 U	0.3 U
Trichloroethene	5	0.3	0.62	0.39 J	0.51 J	0.62 J	0.3 J
Trichlorofluoromethane	1288.24	0.3	2	2 U	1 U	1 U	0.3 U
Vinyl Chloride	2	0.3	2	2 U	1 U	1 U	0.3 U
Xylene (Total)	10000	0.6	4	4 U	2 U	NA	0.6 U

TABLE 3-36
ANALYTICAL RESULTS FOR WELL AA-UW1
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012

Notes:

a NDEP BCL are reported in the same unit as analytical group. Source of NDEP BCL's are from May 2012 update. MCL applied where no BCL exists.
b Bolded results exceed the associated screening level.
c MCL for Adjusted Gross Alpha (Total) was calculated using the following equation
Adjusted Gross Alpha (Total) MCL = Alpha Total - (Uranium 234 + Uranium 235 + Uranium 238)
d MCL for Radium was calculated using the following equation: Radium MCL = Radium 226 + Radium 228
e Total Trihalomethanes were calculated using the following equation:
Total Trihalomethanes = Bromodichloromethane + Bromoform + Chloroform + Dibromochloromethane
f Reporting limit exceeds the screening level due to analytical limitations or sample dilution.

Qualifiers:

J Estimated value
U Analyte not detected; the reporting limit is reported in the table
R Rejected data point

+ Biased high
- Biased low
µg/L Microgram per liter
MCL Maximum contaminant level
MDC Minimum detectable concentration
mg/L Milligram per liter
NA Not anaylzed; or not calculated if components are not detected
pCi/L Picocurie per liter
QTR Quarter
SL Screening level

TABLE 3-37
ANALYTICAL RESULTS FOR WELL DBMW-1
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
ALKALINITY (reported in mg/L)							
Bicarbonate Alkalinity		68	71	69	68	71	70
ANIONS (reported in mg/L)							
Chloride	4	950	1100	**1100 J**	**1000**	**980**	**990**
Nitrate	10	8.2	9.5	9.5 J	9.2	8.2	8.8
Perchlorate	0.018	7.5	8.9	**8.6 J**	**7.6**	**8.9**	**7.5**
Sulfate	250	2600	2800	**2800 J**	**2700**	**2600**	**2600**
GENERAL							
Fluoride	4	0.66	1	0.71 J	1 U	1 U	0.66
Nitrite	1	0.5	1	0.5 U	1 U	1 U	0.5 U
Total Phosphorus		0.05	0.064	0.062	0.05 U	0.05 U	0.05 U
RADIONUCLIDES (reported in pCi/L)							
Alpha (Total)				NA	NA	NA	NA
Adjusted Gross Alpha (Total) MCL [c]	15	0	0	NA	NA	NA	NA
Beta (Total)	50			NA	NA	NA	NA
Uranium 238				NA	NA	NA	NA
Uranium 234				NA	NA	NA	NA
Thorium 230	0.042			NA	NA	NA	NA
Radium 226	5			NA	NA	NA	NA
Radon 222	300			NA	NA	NA	NA
Lead 214				NA	NA	NA	NA
Bismuth 214				NA	NA	NA	NA
Lead 210				NA	NA	NA	NA
Thorium 232	0.14			NA	NA	NA	NA
Radium 228	5			NA	NA	NA	NA
Radium MCL [d]	5	0	0	NA	NA	NA	NA
Actinium-228				NA	NA	NA	NA
Thorium 228	0.11			NA	NA	NA	NA
Lead 212				NA	NA	NA	NA
Bismuth 212				NA	NA	NA	NA
Thallium 208				NA	NA	NA	NA

TABLE 3-37
ANALYTICAL RESULTS FOR WELL DBMW-1
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
RADIONUCLIDES (reported in pCi/L)							
Potassium 40				NA	NA	NA	NA
Uranium 235				NA	NA	NA	NA
Polonium-210				NA	NA	NA	NA
Protactinium-234				NA	NA	NA	NA
Radium-224				NA	NA	NA	NA
Thorium-227				NA	NA	NA	NA
Thorium-234				NA	NA	NA	NA
SOLIDS (reported in mg/L)							
Total Dissolved Solids	1900	5500	6000	**5800**	**5700**	**5600**	**6000**
TOTAL METAL (reported in ug/L)							
Aluminum	50	68	500	**86 U [f]**	**500 U [f]**	**500 U [f]**	**76 U [f]**
Antimony	6	15	100	**100 U [f]**	**100 U [f]**	**100 U [f]**	**15 U [f]**
Arsenic	10	96	100	**98**	**98**	**97**	**96**
Barium	2000	5.1	12	5.1 J-	12 J-	7.2 J	6.5 J
Beryllium	4	0.88	10	10 U [f]	**10 U [f]**	**1.8 J**	0.88 U
Cadmium	5	1.6	25	25 U [f]	**25 U [f]**	**25 U [f]**	**1.6 U**
Calcium		620000	680000	630000 J-	630000	620000	620000 J-
Chromium	100	40	48	40 J-	47 J-	43 J	48 J
Chromium VI	100	55	64	64	NA	NA	NA
Cobalt	10.95	2.2	50	50 U [f]	**50 U [f]**	**50 U [f]**	**2.2 U**
Copper	1300	4.8	50	50 U	50 U	50 U	4.8 U
Iron	300	25	500	500 U [f]	**500 U [f]**	**500 U [f]**	**25 U**
Lead	15	3	15	15 U	15 U	15 U	6.4 U
Lithium	73	390	470	**390 J+**	**410 J+**	**410 J+**	**410 J**
Magnesium	206955	270000	270000	**270000 J-**	**270000**	**270000**	**270000 J-**
Manganese	20	0.57	50	50 U [f]	**50 U [f]**	**50 U [f]**	**0.57 U**
Mercury	2	0.0029	0.2	0.2 U	0.2 U	0.2 U	0.0029 U
Molybdenum	182.5	740	820	**790**	**800**	**780**	**820**
Nickel	730	1.5	100	100 U	100 U	100 U	4.7 U

TABLE 3-37
ANALYTICAL RESULTS FOR WELL DBMW-1
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
TOTAL METAL (reported in ug/L)							
Potassium		62000	74000	63000 J	62000 J+	62000 J	65000
Selenium	50	83	100	**94**	**100**	**83**	**100**
Silicon		32000	36000	33000 J-	36000	35000	36000 J-
Silver	100	5.4	50	50 U	50 U	50 U	5.4 U
Sodium		620000	660000	630000 J-	650000	620000 J	660000 J-
Thallium	2	0.07	0.2	0.07 U	0.13 U	0.08 J	0.07 J
Tin	21900	14	250	250 U	250 U	250 U	14 U
Titanium	146000	1.4	100	100 U	100 U	100 U	1.4 U
Uranium	30	9.1	9.5	9.1	9.5	9.4	9.3
Vanadium	182.5	29	34	32 U	34 J	29 J	32 J
Zinc	10950	3.6	250	100 U	8 U	100 U	3.6 U
Zirconium		2.5	100	100 U	12 U	12 J	2.5 U
VOLATILES (reported in ug/L)							
1,1,1-Trichloroethane	200	0.3	5	5 U	1 U	1 U	0.3 U
1,1,2-Trichloroethane	5	0.3	5	5 U	1 U	1 U	0.3 U
1,1-Dichloroethane	2.41809	0.3	5	5 U [f]	**1 U**	1 U	0.3 U
1,1-Dichloroethene	7	0.3	5	5 U	1 U	1 U	0.3 U
1,2-Dichloroethane	5	0.3	5	5 U	1 U	1 U	0.3 U
1,2-Dichloropropane	5	0.3	5	5 U	1 U	1 U	0.3 U
1,3-Dichlorobenzene	86.7327	0.3	5	5 U	1 U	1 U	0.3 U
2-Butanone	7064.52	3	50	50 U	10 U	10 U	3 U
4-Methyl-2-Pentanone	1990.91	3	50	50 U	10 U	10 U	3 U
Acetone	21782.9	6.4	50	50 U	10 U	10 U	6.4 U
Benzene	5	0.3	5	5 U	1 U	1 U	0.3 U
Bromodichloromethane	0.1173	0.3	5	**5 U** [f]	**1 U** [f]	**1 U** [f]	**0.3 U** [f]
Bromoform	8.51032	0.3	5	5 U	1 U	1 U	0.3 U
Bromomethane	8.66102	0.3	5	5 U	1 U	1 U	0.3 U
Carbon Disulfide	1042.86	0.3	5	5 U	1 U	1 U	0.3 U
Carbon Tetrachloride	5	0.3	5	5 U	1 U	1 U	0.3 U

TABLE 3-37
ANALYTICAL RESULTS FOR WELL DBMW-1
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
VOLATILES (reported in ug/L)							
Chlorobenzene	100	0.3	5	5 U	1 U	1 U	0.3 U
Chloroform	0.19279	40	64	**63**	**64**	**40**	**56**
Chloromethane	2.7037	0.33	5	5 U [f]	**1 U**	1 U	0.33 U
cis-1,2-Dichloroethene	70	0.3	5	5 U	1 U	1 U	0.3 U
Dibromochloromethane	0.14712	0.3	5	**5 U [f]**	**1 U [f]**	**1 U [f]**	**0.3 U [f]**
Ethylbenzene	700	0.3	5	5 U	1 U	1 U	0.3 U
Methylene Chloride	5	0.32	5	5 U	1 U	1 U	0.32 U
Naphthalene	0.14314	0.42	5	**5 U [f]**	**1 U [f]**	**1 U [f]**	**0.42 U [f]**
Styrene	100	0.3	5	5 U	1 U	1 U	0.3 U
Tetrachloroethene	5	0.19	5	5 U	1 U	1 U	0.19 U
Toluene	1000	0.3	5	5 U	1 U	1 U	0.3 U
Total Trihalomethanes [e]	80	40	64	63	64	40	56
Trans-1,2-Dichloroethene	100	0.3	5	5 U	1 U	1 U	0.3 U
Trichloroethene	5	0.3	5	5 U	1 U	1 U	0.3 U
Trichlorofluoromethane	1288.24	0.3	5	5 U	1 U	1 U	0.3 U
Vinyl Chloride	2	0.3	5	5 U [f]	**1 U**	1 U	0.3 U
Xylene (Total)	10000	0.6	10	10 U	2 U	2 U	0.6 U

TABLE 3-37
ANALYTICAL RESULTS FOR WELL DBMW-1
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012

Notes:

a NDEP BCL are reported in the same unit as analytical group. Source of NDEP BCL's are from May 2012 update. MCL applied where no BCL exists.
b Bolded results exceed the associated screening level.
c MCL for Adjusted Gross Alpha (Total) was calculated using the following equation
Adjusted Gross Alpha (Total) MCL = Alpha Total - (Uranium 234 + Uranium 235 + Uranium 238)
d MCL for Radium was calculated using the following equation: Radium MCL = Radium 226 + Radium 228
e Total Trihalomethanes were calculated using the following equation:
Total Trihalomethanes = Bromodichloromethane + Bromoform + Chloroform + Dibromochloromethane
f Reporting limit exceeds the screening level due to analytical limitations or sample dilution.

Qualifiers:

J Estimated value
U Analyte not detected; the reporting limit is reported in the table
R Rejected data point

+ Biased high
- Biased low
µg/L Microgram per liter
MCL Maximum contaminant level
MDC Minimum detectable concentration
mg/L Milligram per liter
NA Not anaylzed; or not calculated if components are not detected
pCi/L Picocurie per liter
QTR Quarter
SL Screening level

TABLE 3-38
ANALYTICAL RESULTS FOR WELL DBMW-3
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
ALKALINITY (reported in mg/L)							
Bicarbonate Alkalinity		60	67	67	66	66	65
ANIONS (reported in mg/L)							
Chloride	4	1500	1900	**1900 J**	**1900 J**	**1800**	**1900**
Nitrate	10	13	15	**15 J**	**14 J**	**13**	**14**
Perchlorate	0.018	8.1	10	**10 J**	**9.2 J**	**9.6**	**9.4**
Sulfate	250	3200	3800	**3800 J**	**3500 J**	**3500**	**3700**
GENERAL							
Fluoride	4	0.52	1	0.52 J	1 UJ	1 U	1 U
Nitrite	1	0.5	1	0.5 U	1 U	1 U	1 U
Total Phosphorus		0.05	0.21	0.21	0.058	0.05 U	0.05 U
RADIONUCLIDES (reported in pCi/L)							
Alpha (Total)				NA	NA	NA	NA
Adjusted Gross Alpha (Total) MCL [c]	15	0	0	NA	NA	NA	NA
Beta (Total)	50			NA	NA	NA	NA
Uranium 238				NA	NA	NA	NA
Uranium 234				NA	NA	NA	NA
Thorium 230	0.042			NA	NA	NA	NA
Radium 226	5			NA	NA	NA	NA
Radon 222	300			NA	NA	NA	NA
Lead 214				NA	NA	NA	NA
Bismuth 214				NA	NA	NA	NA
Lead 210				NA	NA	NA	NA
Thorium 232	0.14			NA	NA	NA	NA
Radium 228	5			NA	NA	NA	NA
Radium MCL [d]	5	0	0	NA	NA	NA	NA
Actinium-228				NA	NA	NA	NA
Thorium 228	0.11			NA	NA	NA	NA
Lead 212				NA	NA	NA	NA
Bismuth 212				NA	NA	NA	NA
Thallium 208				NA	NA	NA	NA

TABLE 3-38
ANALYTICAL RESULTS FOR WELL DBMW-3
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
RADIONUCLIDES (reported in pCi/L)							
Potassium 40				NA	NA	NA	NA
Uranium 235				NA	NA	NA	NA
Polonium-210				NA	NA	NA	NA
Protactinium-234				NA	NA	NA	NA
Radium-224				NA	NA	NA	NA
Thorium-227				NA	NA	NA	NA
Thorium-234				NA	NA	NA	NA
SOLIDS (reported in mg/L)							
Total Dissolved Solids	1900	7500	9000	**8300**	**8200**	**8000**	**9000**
TOTAL METAL (reported in ug/L)							
Aluminum	50	160	2200	**210 U [f]**	**500 U [f]**	**500 U [f]**	**160 J**
Antimony	6	6.7	100	**100 U [f]**	**100 U [f]**	**100 U [f]**	**15 U [f]**
Arsenic	10	94	100	**98**	**94**	**97**	**94**
Barium	2000	5.2	32	5.2 J-	5.7 J-	5.8 J	6.3 J
Beryllium	4	0.88	10	10 U [f]	**10 U [f]**	**2.3 J**	0.88 U
Cadmium	5	1.6	25	25 U [f]	**25 U [f]**	**25 U [f]**	**1.6 U**
Calcium		550000	650000	570000 J-	550000 J	580000	560000 J-
Chromium	100	53	64	53	60	60	64
Chromium VI	100	68	69	69	NA	NA	NA
Cobalt	10.95	2.2	50	50 U [f]	**50 U [f]**	**50 U [f]**	**2.2 U**
Copper	1300	1.6	50	50 U	50 U	50 U	4.8 U
Iron	300	96	2700	**200 U**	500 U [f]	**500 U [f]**	**96 J**
Lead	15	3	15	15 U	15 U	15 U	6.4 U
Lithium	73	540	590	**550 J+**	**540 J+**	**560 J+**	**590 J**
Magnesium	206955	390000	470000	**450000 J-**	**450000 J**	**470000**	**470000 J-**
Manganese	20	0.57	50	**2.3 J-**	50 U [f]	**50 U [f]**	**0.57 U**
Mercury	2	0.0029	0.2	0.2 U	0.2 U	0.2 U	0.0029 U
Molybdenum	182.5	1200	2200	**2100**	**2000**	**2200**	**2200**
Nickel	730	3.5	100	100 U	100 U	100 U	4.7 U

TABLE 3-38
ANALYTICAL RESULTS FOR WELL DBMW-3
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
TOTAL METAL (reported in ug/L)							
Potassium		140000	170000	160000 J	160000 J+	160000 J	170000
Selenium	50	110	200	**180**	**180**	**180**	**200**
Silicon		25000	32000	30000 J-	31000	31000	32000 J-
Silver	100	5.4	50	50 U	50 U	50 U	5.4 U
Sodium		960000	1300000	1200000 J-	1100000	1100000 J	1300000 J-
Thallium	2	0.25	0.36	0.25	0.3	0.27 J	0.26
Tin	21900	14	250	250 U	250 U	250 U	14 U
Titanium	146000	1.4	100	100 U	100 U	100 U	1.4 U
Uranium	30	7.4	7.8	7.5	7.4	7.8	7.8
Vanadium	182.5	32	42	35 U	34 J	32 J	36 J
Zinc	10950	3.6	140	100 U	26 U	7.9 J	3.6 U
Zirconium		1.7	15	7.3 U	12 U	15 J	2.5 U
VOLATILES (reported in ug/L)							
1,1,1-Trichloroethane	200	0.3	1	1 U	1 U	1 U	0.3 U
1,1,2-Trichloroethane	5	0.3	1	1 U	1 U	1 U	0.3 U
1,1-Dichloroethane	2.41809	0.3	1	1 U	1 U	1 U	0.3 U
1,1-Dichloroethene	7	0.3	1	1 U	1 U	1 U	0.3 U
1,2-Dichloroethane	5	0.3	1	1 U	1 U	1 U	0.3 U
1,2-Dichloropropane	5	0.3	1	1 U	1 U	1 U	0.3 U
1,3-Dichlorobenzene	86.7327	0.3	1	1 U	1 U	1 U	0.3 U
2-Butanone	7064.52	3	10	10 U	10 U	10 U	3 U
4-Methyl-2-Pentanone	1990.91	3	10	10 U	10 U	10 U	3 U
Acetone	21782.9	6.4	10	10 U	10 U	10 U	6.4 U
Benzene	5	0.3	1	1 U	1 U	1 U	0.3 U
Bromodichloromethane	0.1173	0.3	1	**1 U [f]**	**1 U [f]**	**1 U [f]**	**0.3 U [f]**
Bromoform	8.51032	0.3	1	1 U	1 U	1 U	0.3 U
Bromomethane	8.66102	0.3	1	1 U	1 U	1 U	0.3 U
Carbon Disulfide	1042.86	0.3	1	1 U	1 U	1 U	0.3 U
Carbon Tetrachloride	5	0.22	1	1 U	1 U	1 U	0.3 U

TABLE 3-38
ANALYTICAL RESULTS FOR WELL DBMW-3
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
VOLATILES (reported in ug/L)							
Chlorobenzene	100	0.3	1	1 U	1 U	1 U	0.3 U
Chloroform	0.19279	50	59	**57**	**59**	**56**	**50**
Chloromethane	2.7037	0.33	1	1 U	1 U	1 U	0.33 U
cis-1,2-Dichloroethene	70	0.3	1	1 U	1 U	1 U	0.3 U
Dibromochloromethane	0.14712	0.3	1	**1 U [f]**	**1 U [f]**	**1 U [f]**	**0.3 U [f]**
Ethylbenzene	700	0.3	1	1 U	1 U	1 U	0.3 U
Methylene Chloride	5	0.32	1	1 U	1 U	1 U	0.32 U
Naphthalene	0.14314	0.42	1	**1 U [f]**	**1 U [f]**	**1 U [f]**	**0.42 U [f]**
Styrene	100	0.3	1	1 U	1 U	1 U	0.3 U
Tetrachloroethene	5	0.19	1	1 U	1 U	1 U	0.19 U
Toluene	1000	0.3	1	1 U	1 U	1 U	0.3 U
Total Trihalomethanes [e]	80	50	59	57	59	56	50
Trans-1,2-Dichloroethene	100	0.3	1	1 U	1 U	1 U	0.3 U
Trichloroethene	5	0.3	1	1 U	1 U	1 U	0.3 U
Trichlorofluoromethane	1288.24	0.3	1	1 U	1 U	1 U	0.3 U
Vinyl Chloride	2	0.3	1	1 U	1 U	1 U	0.3 U
Xylene (Total)	10000	0.6	2	2 U	2 U	2 U	0.6 U

TABLE 3-38
ANALYTICAL RESULTS FOR WELL DBMW-3
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012

Notes:

a NDEP BCL are reported in the same unit as analytical group. Source of NDEP BCL's are from May 2012 update. MCL applied where no BCL exists.
b Bolded results exceed the associated screening level.
c MCL for Adjusted Gross Alpha (Total) was calculated using the following equation
Adjusted Gross Alpha (Total) MCL = Alpha Total - (Uranium 234 + Uranium 235 + Uranium 238)
d MCL for Radium was calculated using the following equation: Radium MCL = Radium 226 + Radium 228
e Total Trihalomethanes were calculated using the following equation:
Total Trihalomethanes = Bromodichloromethane + Bromoform + Chloroform + Dibromochloromethane
f Reporting limit exceeds the screening level due to analytical limitations or sample dilution.

Qualifiers:

J Estimated value
U Analyte not detected; the reporting limit is reported in the table
R Rejected data point

+ Biased high
- Biased low
µg/L Microgram per liter
MCL Maximum contaminant level
MDC Minimum detectable concentration
mg/L Milligram per liter
NA Not anaylzed; or not calculated if components are not detected
pCi/L Picocurie per liter
QTR Quarter
SL Screening level

TABLE 3-39
ANALYTICAL RESULTS FOR WELL DBMW-4
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
ALKALINITY (reported in mg/L)							
Bicarbonate Alkalinity		88	100	90	91	88	88
ANIONS (reported in mg/L)							
Chloride	4	890	990	**980**	**990**	**940**	**920**
Nitrate	10	22	25	**25**	**24**	**22**	**22**
Perchlorate	0.018	4.3	4.6	**4.4**	**4.5**	**4.6**	**4.4**
Sulfate	250	2300	2600	**2600**	**2600**	**2500**	**2300**
GENERAL							
Fluoride	4	0.52	1	0.57	1 U	1 U	0.52
Nitrite	1	0.5	1	0.5 U	1 U	1 U	0.5 U
Total Phosphorus		0.05	0.1	0.069	0.05 U	0.053	0.05 U
RADIONUCLIDES (reported in pCi/L)							
Alpha (Total)				NA	NA	NA	NA
Adjusted Gross Alpha (Total) MCL [c]	15	0	0	NA	NA	NA	NA
Beta (Total)	50			NA	NA	NA	NA
Uranium 238				NA	NA	NA	NA
Uranium 234				NA	NA	NA	NA
Thorium 230	0.042			NA	NA	NA	NA
Radium 226	5			NA	NA	NA	NA
Radon 222	300			NA	NA	NA	NA
Lead 214				NA	NA	NA	NA
Bismuth 214				NA	NA	NA	NA
Lead 210				NA	NA	NA	NA
Thorium 232	0.14			NA	NA	NA	NA
Radium 228	5			NA	NA	NA	NA
Radium MCL [d]	5	0	0	NA	NA	NA	NA
Actinium-228				NA	NA	NA	NA
Thorium 228	0.11			NA	NA	NA	NA
Lead 212				NA	NA	NA	NA
Bismuth 212				NA	NA	NA	NA
Thallium 208				NA	NA	NA	NA

TABLE 3-39
ANALYTICAL RESULTS FOR WELL DBMW-4
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
RADIONUCLIDES (reported in pCi/L)							
Potassium 40				NA	NA	NA	NA
Uranium 235				NA	NA	NA	NA
Polonium-210				NA	NA	NA	NA
Protactinium-234				NA	NA	NA	NA
Radium-224				NA	NA	NA	NA
Thorium-227				NA	NA	NA	NA
Thorium-234				NA	NA	NA	NA
SOLIDS (reported in mg/L)							
Total Dissolved Solids	1900	5100	5700	**5600**	**5400**	**5300**	**5700**
TOTAL METAL (reported in ug/L)							
Aluminum	50	76	500	**500 U [f]**	**500 U [f]**	**500 U [f]**	**76 U [f]**
Antimony	6	15	100	**100 U [f]**	**100 U [f]**	**100 U [f]**	**15 U [f]**
Arsenic	10	75	100	**99**	**100**	**99**	**89**
Barium	2000	5.5	18	12 J-	5.5 J-	7.2 J	9 J
Beryllium	4	0.88	10	10 U [f]	**10 U [f]**	**2.1 J**	0.88 U
Cadmium	5	1.6	25	25 U [f]	**25 U [f]**	**25 U [f]**	**1.6 U**
Calcium		600000	630000	600000	630000	630000	630000
Chromium	100	55	68	60	65	65	68
Chromium VI	100	70	81	81	NA	NA	NA
Cobalt	10.95	2.2	50	50 U [f]	**50 U [f]**	**50 U [f]**	**2.2 U**
Copper	1300	4.8	50	50 U	50 U	50 U	4.8 U
Iron	300	58	500	190 U	500 U [f]	**58 J**	110 J
Lead	15	3	15	15 U	15 U	15 U	6.4 U
Lithium	73	320	410	**320 J+**	**350 J+**	**340 J+**	**350**
Magnesium	206955	240000	250000	**240000**	**250000**	**250000**	**250000**
Manganese	20	1.1	11	11 U	1.1 J-	1.9 J	4.6 J
Mercury	2	0.0029	0.2	0.2 U	0.2 U	0.2 U	0.0029 U
Molybdenum	182.5	66	80	66	68	80	77
Nickel	730	3.5	100	100 U	100 U	100 U	4.7 U

TABLE 3-39
ANALYTICAL RESULTS FOR WELL DBMW-4
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
TOTAL METAL (reported in ug/L)							
Potassium		91000	98000	91000	98000 J+	95000 J	97000
Selenium	50	13	25	25 U	19 J	16 J	13 U
Silicon		32000	37000	32000	36000	34000	37000
Silver	100	5.4	50	50 U	50 U	50 U	5.4 U
Sodium		590000	630000	590000	630000	600000 J	610000
Thallium	2	0.2	0.57	0.44	0.57	0.46 J	0.42
Tin	21900	14	250	250 U	250 U	250 U	14 U
Titanium	146000	1.4	100	100 U	100 U	100 U	1.4 U
Uranium	30	24	28	24	25	24	26
Vanadium	182.5	27	48	43 J-	48 J	44 J	42 J
Zinc	10950	3.6	100	100 U	28 U	100 U	3.6 U
Zirconium		2.5	100	100 U	8.1 U	13 J	2.5 U
VOLATILES (reported in ug/L)							
1,1,1-Trichloroethane	200	0.3	2	2 U	1 U	1 U	0.3 U
1,1,2-Trichloroethane	5	0.3	2	2 U	1 U	1 U	0.3 U
1,1-Dichloroethane	2.41809	0.3	2	2 U	1 U	1 U	0.3 U
1,1-Dichloroethene	7	0.3	2	2 U	1 U	1 U	0.3 U
1,2-Dichloroethane	5	0.3	2	2 U	1 U	1 U	0.3 U
1,2-Dichloropropane	5	0.3	2	2 U	1 U	1 U	0.3 U
1,3-Dichlorobenzene	86.7327	0.3	2	2 U	1 U	1 U	0.3 U
2-Butanone	7064.52	3	20	20 U	10 U	10 U	3 U
4-Methyl-2-Pentanone	1990.91	3	20	20 U	10 U	10 U	3 U
Acetone	21782.9	6.4	20	20 U	10 U	10 U	6.4 U
Benzene	5	0.3	2	2 U	1 U	1 U	0.3 U
Bromodichloromethane	0.1173	0.3	2	**2 U [f]**	**1 U [f]**	**1 U [f]**	**0.3 U [f]**
Bromoform	8.51032	0.3	2	2 U	1 U	1 U	0.3 U
Bromomethane	8.66102	0.3	2	2 U	1 U	1 U	0.3 U
Carbon Disulfide	1042.86	0.3	2	2 U	1 U	1 U	0.3 U
Carbon Tetrachloride	5	0.75	1.5	1.4 J	1.5	1.5	0.75 J

TABLE 3-39
ANALYTICAL RESULTS FOR WELL DBMW-4
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
VOLATILES (reported in ug/L)							
Chlorobenzene	100	0.3	2	2 U	1 U	1 U	0.3 U
Chloroform	0.19279	65	76	**76**	**NA**	74	**65**
Chloromethane	2.7037	0.33	2	2 U	1 U	1 U	0.33 U
cis-1,2-Dichloroethene	70	0.3	2	2 U	1 U	1 U	0.3 U
Dibromochloromethane	0.14712	0.3	2	**2 U [f]**	**1 U [f]**	**1 U [f]**	**0.3 U [f]**
Ethylbenzene	700	0.3	2	2 U	1 U	1 U	0.3 U
Methylene Chloride	5	0.32	2	2 U	1 U	1 U	0.32 U
Naphthalene	0.14314	0.42	2	**2 U [f]**	**1 U [f]**	**1 U [f]**	**0.42 U [f]**
Styrene	100	0.3	2	2 U	1 U	1 U	0.3 U
Tetrachloroethene	5	2.5	3.9	3.8	3.9	3.8	2.5
Toluene	1000	0.3	2	2 U	1 U	1 U	0.3 U
Total Trihalomethanes [e]	80	65	76	76	NA	74	65
Trans-1,2-Dichloroethene	100	0.3	2	2 U	1 U	1 U	0.3 U
Trichloroethene	5	0.3	2	2 U	1 U	1 U	0.3 U
Trichlorofluoromethane	1288.24	0.3	2	2 U	1 U	1 U	0.3 U
Vinyl Chloride	2	0.3	2	2 U	1 U	1 U	0.3 U
Xylene (Total)	10000	0.6	10	4 U	10 U	2 U	0.6 U

TABLE 3-39
ANALYTICAL RESULTS FOR WELL DBMW-4
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012

Notes:

a NDEP BCL are reported in the same unit as analytical group. Source of NDEP BCL's are from May 2012 update. MCL applied where no BCL exists.
b Bolded results exceed the associated screening level.
c MCL for Adjusted Gross Alpha (Total) was calculated using the following equation
Adjusted Gross Alpha (Total) MCL = Alpha Total - (Uranium 234 + Uranium 235 + Uranium 238)
d MCL for Radium was calculated using the following equation: Radium MCL = Radium 226 + Radium 228
e Total Trihalomethanes were calculated using the following equation:
Total Trihalomethanes = Bromodichloromethane + Bromoform + Chloroform + Dibromochloromethane
f Reporting limit exceeds the screening level due to analytical limitations or sample dilution.

Qualifiers:

J Estimated value
U Analyte not detected; the reporting limit is reported in the table
R Rejected data point

+ Biased high
- Biased low
µg/L Microgram per liter
MCL Maximum contaminant level
MDC Minimum detectable concentration
mg/L Milligram per liter
NA Not anaylzed; or not calculated if components are not detected
pCi/L Picocurie per liter
QTR Quarter
SL Screening level

TABLE 3-40
ANALYTICAL RESULTS FOR WELL DBMW-5
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
ALKALINITY (reported in mg/L)							
Bicarbonate Alkalinity		78	80	80	79	80	78
ANIONS (reported in mg/L)							
Chloride	4	1100	1100	1100 J	**1100**	**1100**	**1100**
Nitrate	10	22	27	27 J	**25**	**22**	**22**
Perchlorate	0.018	4	5.1	4 J	**4.4**	**5**	**5.1**
Sulfate	250	2000	2300	2300 J	**2200**	**2100**	**2000**
GENERAL							
Fluoride	4	0.5	1	0.51 J	1 U	1 U	0.5 U
Nitrite	1	0.5	1	0.5 U	1 U	1 U	0.5 U
Total Phosphorus		0.05	0.097	0.097	0.05 U	0.062	0.05 U
RADIONUCLIDES (reported in pCi/L)							
Alpha (Total)				NA	NA	NA	NA
Adjusted Gross Alpha (Total) MCL [c]	15	0	0	NA	NA	NA	NA
Beta (Total)	50			NA	NA	NA	NA
Uranium 238				NA	NA	NA	NA
Uranium 234				NA	NA	NA	NA
Thorium 230	0.042			NA	NA	NA	NA
Radium 226	5			NA	NA	NA	NA
Radon 222	300			NA	NA	NA	NA
Lead 214				NA	NA	NA	NA
Bismuth 214				NA	NA	NA	NA
Lead 210				NA	NA	NA	NA
Thorium 232	0.14			NA	NA	NA	NA
Radium 228	5			NA	NA	NA	NA
Radium MCL [d]	5	0	0	NA	NA	NA	NA
Actinium-228				NA	NA	NA	NA
Thorium 228	0.11			NA	NA	NA	NA
Lead 212				NA	NA	NA	NA
Bismuth 212				NA	NA	NA	NA
Thallium 208				NA	NA	NA	NA

TABLE 3-40
ANALYTICAL RESULTS FOR WELL DBMW-5
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
RADIONUCLIDES (reported in pCi/L)							
Potassium 40				NA	NA	NA	NA
Uranium 235				NA	NA	NA	NA
Polonium-210				NA	NA	NA	NA
Protactinium-234				NA	NA	NA	NA
Radium-224				NA	NA	NA	NA
Thorium-227				NA	NA	NA	NA
Thorium-234				NA	NA	NA	NA
SOLIDS (reported in mg/L)							
Total Dissolved Solids	1900	5000	5500	5200	**5100**	**5000**	**5500**
TOTAL METAL (reported in ug/L)							
Aluminum	50	130	380	380 J-	**170 U [f]**	**140 J**	**130 J**
Antimony	6	15	100	100 U [f]	**100 U [f]**	**100 U [f]**	**15 U [f]**
Arsenic	10	120	120	120	**120**	**120**	**120**
Barium	2000	4.7	8.8	7.4 J-	8.8 J-	6.4 J	4.7 J
Beryllium	4	0.88	10	10 U [f]	**10 U [f]**	**2.3 J**	0.88 U
Cadmium	5	1.6	25	25 U [f]	**25 U [f]**	**25 U [f]**	**1.6 U**
Calcium		660000	710000	660000 J	700000	710000	690000
Chromium	100	63	78	63	70	78	78
Chromium VI	100	85	85	85	NA	NA	NA
Cobalt	10.95	2.2	50	50 U [f]	**50 U [f]**	**50 U [f]**	**2.2 U**
Copper	1300	4.8	50	50 U	50 U	50 U	4.8 U
Iron	300	180	600	600	**180 J-**	290 J	400 J
Lead	15	6.4	15	15 U	15 U	15 U	6.4 U
Lithium	73	340	360	340 J+	**350 J+**	**350 J+**	**360**
Magnesium	206955	230000	250000	230000 J	**240000**	**250000**	**240000**
Manganese	20	2.4	50	7.1 U	50 U [f]	**50 U [f]**	**2.4 J**
Mercury	2	0.0029	0.2	0.2 U	0.2 U	0.2 U	0.0029 U
Molybdenum	182.5	36	39	36 J-	38 J-	39 J	37 J
Nickel	730	4.7	100	100 U	100 U	100 U	4.7 U

TABLE 3-40
ANALYTICAL RESULTS FOR WELL DBMW-5
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
TOTAL METAL (reported in ug/L)							
Potassium		74000	81000	77000 J	81000 J+	78000 J	74000
Selenium	50	13	26	20 J	26	14 J	13 U
Silicon		30000	32000	30000	32000	31000	32000
Silver	100	5.4	50	50 U	50 U	50 U	5.4 U
Sodium		460000	500000	460000 J	500000	480000 J	490000
Thallium	2	0.26	0.32	0.28	0.32	0.3 J	0.26
Tin	21900	14	250	250 U	250 U	250 U	14 U
Titanium	146000	1.4	100	2.1 J-	100 U	100 U	1.4 U
Uranium	30	24	25	25	24	25	24
Vanadium	182.5	14	17	16 J-	17 J	15 J	14 J
Zinc	10950	3.6	100	100 U	33 U	100 U	3.6 U
Zirconium		2.5	100	100 U	9.1 U	13 J	2.5 U
VOLATILES (reported in ug/L)							
1,1,1-Trichloroethane	200	0.3	2	2 U	1 U	1 U	0.3 U
1,1,2-Trichloroethane	5	0.3	2	2 U	1 U	1 U	0.3 U
1,1-Dichloroethane	2.41809	0.3	2	2 U	1 U	1 U	0.3 U
1,1-Dichloroethene	7	0.3	2	2 U	1 U	1 U	0.3 U
1,2-Dichloroethane	5	0.3	2	2 U	1 U	1 U	0.3 U
1,2-Dichloropropane	5	0.3	2	2 U	1 U	1 U	0.3 U
1,3-Dichlorobenzene	86.7327	0.3	2	2 U	1 U	1 U	0.3 U
2-Butanone	7064.52	3	20	20 U	10 U	10 U	3 U
4-Methyl-2-Pentanone	1990.91	3	20	20 U	10 U	10 U	3 U
Acetone	21782.9	6.4	20	20 U	10 U	10 U	6.4 U
Benzene	5	0.3	2	2 U	1 U	1 U	0.3 U
Bromodichloromethane	0.1173	0.3	2	2 U [f]	**1 U [f]**	**1 U [f]**	**0.3 U [f]**
Bromoform	8.51032	0.3	2	2 U	1 U	1 U	0.3 U
Bromomethane	8.66102	0.3	2	2 U	1 U	1 U	0.3 U
Carbon Disulfide	1042.86	0.3	2	2 U	1 U	1 U	0.3 U
Carbon Tetrachloride	5	0.7	1.2	1.1 J	1.1	1.2	0.7 J

TABLE 3-40
ANALYTICAL RESULTS FOR WELL DBMW-5
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
VOLATILES (reported in ug/L)							
Chlorobenzene	100	0.3	2	2 U	1 U	1 U	0.3 U
Chloroform	0.19279	60	65	60	**NA**	65	**62**
Chloromethane	2.7037	0.33	2	2 U	1 U	1 U	0.33 U
cis-1,2-Dichloroethene	70	0.3	2	2 U	1 U	1 U	0.3 U
Dibromochloromethane	0.14712	0.3	2	2 U [f]	**1 U [f]**	**1 U [f]**	**0.3 U [f]**
Ethylbenzene	700	0.3	2	2 U	1 U	1 U	0.3 U
Methylene Chloride	5	0.32	2	2 U	1 U	1 U	0.32 U
Naphthalene	0.14314	0.42	2	2 U [f]	**1 U [f]**	**1 U [f]**	**0.42 U [f]**
Styrene	100	0.3	2	2 U	1 U	1 U	0.3 U
Tetrachloroethene	5	1.4	1.8	1.8 J	1.7	1.8	1.4
Toluene	1000	0.3	2	2 U	1 U	1 U	0.3 U
Total Trihalomethanes [e]	80	60	65	60	NA	65	62
Trans-1,2-Dichloroethene	100	0.3	2	2 U	1 U	1 U	0.3 U
Trichloroethene	5	0.3	2	2 U	1 U	1 U	0.3 U
Trichlorofluoromethane	1288.24	0.3	2	2 U	1 U	1 U	0.3 U
Vinyl Chloride	2	0.3	2	2 U	1 U	1 U	0.3 U
Xylene (Total)	10000	0.6	10	4 U	10 U	2 U	0.6 U

TABLE 3-40
ANALYTICAL RESULTS FOR WELL DBMW-5
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012

Notes:

a NDEP BCL are reported in the same unit as analytical group. Source of NDEP BCL's are from May 2012 update. MCL applied where no BCL exists.
b Bolded results exceed the associated screening level.
c MCL for Adjusted Gross Alpha (Total) was calculated using the following equation
Adjusted Gross Alpha (Total) MCL = Alpha Total - (Uranium 234 + Uranium 235 + Uranium 238)
d MCL for Radium was calculated using the following equation: Radium MCL = Radium 226 + Radium 228
e Total Trihalomethanes were calculated using the following equation:
Total Trihalomethanes = Bromodichloromethane + Bromoform + Chloroform + Dibromochloromethane
f Reporting limit exceeds the screening level due to analytical limitations or sample dilution.

Qualifiers:

J Estimated value
U Analyte not detected; the reporting limit is reported in the table
R Rejected data point

+ Biased high
- Biased low
µg/L Microgram per liter
MCL Maximum contaminant level
MDC Minimum detectable concentration
mg/L Milligram per liter
NA Not anaylzed; or not calculated if components are not detected
pCi/L Picocurie per liter
QTR Quarter
SL Screening level

TABLE 3-41
ANALYTICAL RESULTS FOR WELL PC-024
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
ALKALINITY (reported in mg/L)							
Bicarbonate Alkalinity		74	100	87	100	87	84 J
ANIONS (reported in mg/L)							
Chloride	4	2700	4800	**4000**	**2700 J**	**4000 J**	**3800 J**
Nitrate	10	26	47	**42**	**26 J**	**41 J**	**42 J**
Perchlorate	0.018	15	36	**24**	**17 J**	**30 J**	**36 J**
Sulfate	250	1900	3300	**2200**	**2000 J**	**2400 J**	**2400 J**
GENERAL							
Fluoride	4	1	2	1 U	1.3 J	2 UJ	1 UJ
Nitrite	1	1	2	1 U	1 U	2 U [f]	**1 U**
Total Phosphorus		0.05	0.072	0.068	0.053	0.064	0.05 U
RADIONUCLIDES (reported in pCi/L)							
Alpha (Total)		16.1	16.1	NA	NA	NA	NA
Adjusted Gross Alpha (Total) MCL [c]	15	-28.39	-28.39	NA	NA	NA	NA
Beta (Total)	50	38.5	38.5	NA	NA	NA	NA
Uranium 238		11.5	11.5	NA	NA	NA	NA
Uranium 234		16.3	16.3	NA	NA	NA	NA
Thorium 230	0.042	0.0104	0.0104	NA	NA	NA	NA
Radium 226	5	0.19	0.19	NA	NA	NA	NA
Radon 222	300	729	729	NA	NA	NA	NA
Lead 214		4.93	4.93	NA	NA	NA	NA
Bismuth 214		15.5	15.5	NA	NA	NA	NA
Lead 210		0.258	0.258	NA	NA	NA	NA
Thorium 232	0.14	0.0384	0.0384	NA	NA	NA	NA
Radium 228	5	0.356	0.356	NA	NA	NA	NA
Radium MCL [d]	5	0	0	NA	NA	NA	NA
Actinium-228		-16	-16	NA	NA	NA	NA
Thorium 228	0.11	0.0311	0.0311	NA	NA	NA	NA
Lead 212		5.3	5.3	NA	NA	NA	NA
Bismuth 212		3.75	3.75	NA	NA	NA	NA
Thallium 208		3.29	3.29	NA	NA	NA	NA

TABLE 3-41
ANALYTICAL RESULTS FOR WELL PC-024
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
RADIONUCLIDES (reported in pCi/L)							
Potassium 40		18.1	18.1	NA	NA	NA	NA
Uranium 235		0.589	0.589	NA	NA	NA	NA
Polonium-210				NA	NA	NA	NA
Protactinium-234		500	500	NA	NA	NA	NA
Radium-224		5.3	5.3	NA	NA	NA	NA
Thorium-227		-15.4	-15.4	NA	NA	NA	NA
Thorium-234		5	5	NA	NA	NA	NA
SOLIDS (reported in mg/L)							
Total Dissolved Solids	1900	7400	12000	**9800**	**7400**	**8400 J**	**12000 J**
TOTAL METAL (reported in ug/L)							
Aluminum	50	85	530	**110 U [f]**	**240**	**85 J**	**480 J**
Antimony	6	15	100	**100 U [f]**	**20 U [f]**	**100 U [f]**	**15 U [f]**
Arsenic	10	72	85	**80**	**72**	**76**	**84**
Barium	2000	7.2	25	7.2 J-	15 J	11 J	23 J
Beryllium	4	0.43	10	**10 U [f]**	**2 U**	3 J	0.88 U
Cadmium	5	1.6	25	**25 U [f]**	**5 U**	25 U [f]	**1.6 U**
Calcium		710000	1200000	1000000 J-	710000 J	1100000 J	970000 J-
Chromium	100	82	230	**150**	**97**	200	**230**
Chromium VI	100	120	210	**210**	**NA**	NA	NA
Cobalt	10.95	1	50	**50 U [f]**	**10 U**	50 U [f]	**2.2 U**
Copper	1300	0.52	50	50 U	1.6 J-	50 U	6.9 J
Iron	300	51	400	54 U	200	51 J	290 J
Lead	15	3	15	15 U	3 U	15 U	6.4 U
Lithium	73	450	700	**540 J+**	**450 J+**	**560 J+**	**610 J**
Magnesium	206955	260000	470000	**410000 J-**	**260000 J**	**410000 J**	**400000 J-**
Manganese	20	1.9	50	1.9 J-	6.2 J-	50 U [f]	**6.7 J**
Mercury	2	0.0029	0.2	0.2 U	0.036 U	0.0085 J	0.0029 U
Molybdenum	182.5	85	140	90	85	110	140
Nickel	730	2.4	100	100 U	3.8 J	100 U	4.7 U

TABLE 3-41
ANALYTICAL RESULTS FOR WELL PC-024
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
TOTAL METAL (reported in ug/L)							
Potassium		31000	50000	36000	32000 J+	34000 J	40000 J
Selenium	50	3.5	25	25 U	3.5 U	25 U	13 U
Silicon		33000	39000	35000 J-	35000	35000	39000 J-
Silver	100	5.4	50	50 U	10 U	50 U	5.4 U
Sodium		1200000	1900000	1500000 J-	1200000 J+	1600000 J	1800000 J-
Thallium	2	0.04	0.2	0.04 U	0.06 U	0.06 J	0.06 J
Tin	21900	14	250	250 U	50 U	250 U	14 U
Titanium	146000	5.3	100	100 U	6.8 J-	100 U	5.3 J
Uranium	30	34	47	**41**	**47**	**42**	**34**
Vanadium	182.5	22	28	25 U	23	22 J	26 J
Zinc	10950	3.6	100	100 U	6.3 U	100 U	67 J
Zirconium		2.5	20	4.7 U	20 U	15 J	2.5 U
VOLATILES (reported in ug/L)							
1,1,1-Trichloroethane	200	0.3	20	1 U	1 U	2 U	0.3 U
1,1,2-Trichloroethane	5	0.3	20	1 U	1 U	2 U	0.3 U
1,1-Dichloroethane	2.41809	0.24	20	0.37 J	0.24 J	2 U	0.3 J
1,1-Dichloroethene	7	2.2	20	3.2	2.2	2.4	2.3
1,2-Dichloroethane	5	0.3	20	1 U	1 U	2 U	0.3 U
1,2-Dichloropropane	5	0.3	20	1 U	1 U	2 U	0.3 U
1,3-Dichlorobenzene	86.7327	0.3	20	1 U	1 U	2 U	0.3 U
2-Butanone	7064.52	3	200	10 U	10 U	20 U	3 U
4-Methyl-2-Pentanone	1990.91	3	200	10 U	10 U	20 U	3 U
Acetone	21782.9	6.4	20	10 U	10 U	20 U	6.4 U
Benzene	5	0.3	20	1 U	1 U	2 U	0.3 U
Bromodichloromethane	0.1173	0.3	20	**1 U [f]**	**1 U [f]**	**2 U [f]**	**0.3 U [f]**
Bromoform	8.51032	0.3	20	1 U	1 U	2 U	0.3 U
Bromomethane	8.66102	0.3	20	1 U	1 U	2 U	0.3 U
Carbon Disulfide	1042.86	0.3	20	1 U	1 U	2 U	0.3 U
Carbon Tetrachloride	5	4.4	20	5.6	**4.4**	5.8	**6.2**

TABLE 3-41
ANALYTICAL RESULTS FOR WELL PC-024
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
VOLATILES (reported in ug/L)							
Chlorobenzene	100	0.3	20	1 U	1 U	2 U	0.3 U
Chloroform	0.19279	400	730	**730**	**400**	**700**	**650**
Chloromethane	2.7037	0.33	20	1 U	1 U	2 U	0.33 U
cis-1,2-Dichloroethene	70	0.17	20	0.17 J	1 U	2 U	0.3 U
Dibromochloromethane	0.14712	0.3	20	**1 U [f]**	**1 U [f]**	**2 U [f]**	**0.3 U [f]**
Ethylbenzene	700	0.3	20	1 U	1 U	2 U	0.3 U
Methylene Chloride	5	0.32	20	1 U	1 U	2 U	0.32 U
Naphthalene	0.14314	0.42	20	**1 U [f]**	**1 U [f]**	**2 U [f]**	**0.42 U [f]**
Styrene	100	0.3	20	1 U	1 U	2 U	0.3 U
Tetrachloroethene	5	1.9	20	2.9	2.2	2.5	3
Toluene	1000	0.3	20	1 U	1 U	2 U	0.3 U
Total Trihalomethanes [e]	80	400	730	**730**	**400**	**700**	**650**
Trans-1,2-Dichloroethene	100	0.3	20	1 U	1 U	2 U	0.3 U
Trichloroethene	5	0.71	20	0.97 J	0.71 J	0.96 J	0.91 J
Trichlorofluoromethane	1288.24	0.3	20	1 U	1 U	2 U	0.3 U
Vinyl Chloride	2	0.3	20	1 U	1 U	2 U	0.3 U
Xylene (Total)	10000	0.6	2	2 U	2 U	2 U	0.6 U

TABLE 3-41
ANALYTICAL RESULTS FOR WELL PC-024
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012

Notes:

a NDEP BCL are reported in the same unit as analytical group. Source of NDEP BCL's are from May 2012 update. MCL applied where no BCL exists.
b Bolded results exceed the associated screening level.
c MCL for Adjusted Gross Alpha (Total) was calculated using the following equation
Adjusted Gross Alpha (Total) MCL = Alpha Total - (Uranium 234 + Uranium 235 + Uranium 238)
d MCL for Radium was calculated using the following equation: Radium MCL = Radium 226 + Radium 228
e Total Trihalomethanes were calculated using the following equation:
Total Trihalomethanes = Bromodichloromethane + Bromoform + Chloroform + Dibromochloromethane
f Reporting limit exceeds the screening level due to analytical limitations or sample dilution.

Qualifiers:

J Estimated value
U Analyte not detected; the reporting limit is reported in the table
R Rejected data point

+ Biased high
- Biased low
µg/L Microgram per liter
MCL Maximum contaminant level
MDC Minimum detectable concentration
mg/L Milligram per liter
NA Not anaylzed; or not calculated if components are not detected
pCi/L Picocurie per liter
QTR Quarter
SL Screening level

TABLE 3-42
ANALYTICAL RESULTS FOR WELL PC-028
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
ALKALINITY (reported in mg/L)							
Bicarbonate Alkalinity		86	100	98	100	100	99 J
ANIONS (reported in mg/L)							
Chloride	4	820	1200	**1000**	**900 J**	**910 J**	**820 J**
Nitrate	10	30	37	**37**	**33 J**	**33 J**	**33 J**
Perchlorate	0.018	44	520	**450**	**410 J**	**400 J**	**390 J**
Sulfate	250	2100	2400	**2300**	**2100 J**	**2400 J**	**2100 J**
GENERAL							
Fluoride	4	0.64	1.2	1.2	1 UJ	1 UJ	0.64 J
Nitrite	1	0.5	1	1 U	1 U	1 U	0.5 U
Total Phosphorus		0.05	0.16	0.11	0.16	0.05 U	0.098
RADIONUCLIDES (reported in pCi/L)							
Alpha (Total)		42.5	42.5	NA	NA	NA	NA
Adjusted Gross Alpha (Total) MCL [c]	15	-28.44	-28.44	NA	NA	NA	NA
Beta (Total)	50	31.7	31.7	NA	NA	NA	NA
Uranium 238		29.2	29.2	NA	NA	NA	NA
Uranium 234		40.1	40.1	NA	NA	NA	NA
Thorium 230	0.042	0.287	0.287	NA	NA	NA	NA
Radium 226	5	1.26	1.26	NA	NA	NA	NA
Radon 222	300	534	534	NA	NA	NA	NA
Lead 214		4.38	4.38	NA	NA	NA	NA
Bismuth 214		14.1	14.1	NA	NA	NA	NA
Lead 210		0.496	0.496	NA	NA	NA	NA
Thorium 232	0.14	0.126	0.126	NA	NA	NA	NA
Radium 228	5	0.77	0.77	NA	NA	NA	NA
Radium MCL [d]	5	1.26	1.26	NA	NA	NA	NA
Actinium-228		14.2	14.2	NA	NA	NA	NA
Thorium 228	0.11	0.189	0.189	NA	NA	NA	NA
Lead 212		2.26	2.26	NA	NA	NA	NA
Bismuth 212		27.7	27.7	NA	NA	NA	NA
Thallium 208		1.52	1.52	NA	NA	NA	NA

TABLE 3-42
ANALYTICAL RESULTS FOR WELL PC-028
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
RADIONUCLIDES (reported in pCi/L)							
Potassium 40		-7.13	-7.13	NA	NA	NA	NA
Uranium 235		1.64	1.64	NA	NA	NA	NA
Polonium-210				NA	NA	NA	NA
Protactinium-234		394	394	NA	NA	NA	NA
Radium-224		2.26	2.26	NA	NA	NA	NA
Thorium-227		11.6	11.6	NA	NA	NA	NA
Thorium-234		17	17	NA	NA	NA	NA
SOLIDS (reported in mg/L)							
Total Dissolved Solids	1900	6800	7500	**6900**	**7000 J**	**6800**	**7000 J**
TOTAL METAL (reported in ug/L)							
Aluminum	50	150	3000	**410 R**	**500 U [f]**	**150 J**	**850**
Antimony	6	3	100	**100 RU [f]**	**100 U [f]**	**100 U [f]**	**3 U**
Arsenic	10	170	240	**170 R**	**240**	**230**	**230**
Barium	2000	10	53	27 R	10 J	12 J	20 J
Beryllium	4	0.18	10	**10 RU [f]**	**10 U [f]**	**3 J**	0.18 U
Cadmium	5	0.33	25	**25 RU [f]**	**25 U [f]**	**25 U [f]**	**0.33 U**
Calcium		590000	680000	680000 R	640000 J	630000 J	590000 J
Chromium	100	770	1300	**800 R**	**1200**	**1100**	**970 J-**
Chromium VI	100	1000	1500	**1400**	**NA**	NA	NA
Cobalt	10.95	0.45	50	**50 RU [f]**	**50 U [f]**	**50 U [f]**	**0.45 U**
Copper	1300	2.3	50	50 RU	50 U	50 U	2.3 J
Iron	300	39	2400	260 R	39 J	100 J	600
Lead	15	1.3	15	15 RU	15 U	15 U	1.3 U
Lithium	73	440	580	**580 R**	**450**	**440 J+**	**510**
Magnesium	206955	190000	310000	**310000 R**	**220000 J**	**210000 J**	**190000 J**
Manganese	20	5.2	50	**29 R**	**5.2 J**	50 U [f]	**13**
Mercury	2	0.0084	0.2	0.016 R	0.2 U	0.0084 J	0.049 J
Molybdenum	182.5	35	200	200 R	**35 J**	36 J	38
Nickel	730	3.9	100	100 RU	100 U	100 U	3.9 J-

TABLE 3-42
ANALYTICAL RESULTS FOR WELL PC-028
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
TOTAL METAL (reported in ug/L)							
Potassium		9000	35000	35000 R	10000 J	9500 J	15000 J+
Selenium	50	4.7	25	25 RU	25 U	25 U	7.5
Silicon		36000	42000	40000 R	42000	42000	41000
Silver	100	1.1	50	50 RU	50 U	50 U	1.1 U
Sodium		850000	2400000	2400000 R	880000 J	850000 J	870000 J
Thallium	2	0.02	0.2	0.05 R	0.02 U	0.03 J	0.05 J
Tin	21900	2.8	250	250 RU	250 U	250 U	2.8 U
Titanium	146000	3.9	130	3.9 R	100 U	100 U	31
Uranium	30	90	150	**150 R**	**120**	**120**	**120**
Vanadium	182.5	46	140	46 R	130	140	120
Zinc	10950	2.9	120	100 RU	100 U	100 U	4.8 J
Zirconium		0.5	100	100 RU	6.1 U	11 J	0.5 U
VOLATILES (reported in ug/L)							
1,1,1-Trichloroethane	200	0.3	10	2 U	1 U	1 U	0.3 U
1,1,2-Trichloroethane	5	0.3	10	2 U	1 U	1 U	0.3 U
1,1-Dichloroethane	2.41809	0.3	10	2 U	1 U	1 U	0.3 U
1,1-Dichloroethene	7	0.3	10	2 U	1 U	1 U	0.3 U
1,2-Dichloroethane	5	0.3	10	2 U	1 U	1 U	0.3 U
1,2-Dichloropropane	5	0.3	10	2 U	1 U	1 U	0.3 U
1,3-Dichlorobenzene	86.7327	0.3	10	2 U	1 U	1 U	0.3 U
2-Butanone	7064.52	3	100	20 U	10 U	10 U	3 U
4-Methyl-2-Pentanone	1990.91	3	100	20 U	10 U	10 U	3 U
Acetone	21782.9	6.4	20	20 RU	10 U	10 U	6.4 U
Benzene	5	0.3	10	2 U	1 U	1 U	0.3 U
Bromodichloromethane	0.1173	0.3	10	**2 U [f]**	**1 U [f]**	**1 U [f]**	**0.3 U [f]**
Bromoform	8.51032	0.3	10	2 U	1 U	1 U	0.3 U
Bromomethane	8.66102	0.3	10	2 U	1 U	1 U	0.3 U
Carbon Disulfide	1042.86	0.3	10	2 U	1 U	1 U	0.3 U
Carbon Tetrachloride	5	1.8	7.1	5.6	**3.5**	2.6	1.8

TABLE 3-42
ANALYTICAL RESULTS FOR WELL PC-028
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
VOLATILES (reported in ug/L)							
Chlorobenzene	100	0.3	10	2 U	1 U	1 U	0.3 U
Chloroform	0.19279	61	310	**150 J**	**76**	**75**	**61**
Chloromethane	2.7037	0.33	10	2 U	1 U	1 U	0.33 U
cis-1,2-Dichloroethene	70	0.3	10	2 U	1 U	1 U	0.3 U
Dibromochloromethane	0.14712	0.3	10	**2 U [f]**	**1 U [f]**	**1 U [f]**	**0.3 U [f]**
Ethylbenzene	700	0.3	10	2 U	1 U	1 U	0.3 U
Methylene Chloride	5	0.32	10	2 U	1 U	1 U	0.32 U
Naphthalene	0.14314	0.42	10	**2 U [f]**	**1 U [f]**	**1 U [f]**	**0.42 U [f]**
Styrene	100	0.3	10	2 U	1 U	1 U	0.3 U
Tetrachloroethene	5	0.56	10	1.1 J	1.1	0.81 J	0.56 J
Toluene	1000	0.3	10	2 U	1 U	1 U	0.3 U
Total Trihalomethanes [e]	80	61	310	**150**	**76**	75	61
Trans-1,2-Dichloroethene	100	0.3	10	2 U	1 U	1 U	0.3 U
Trichloroethene	5	0.49	10	0.83 J	0.56 J	0.55 J	0.62 J
Trichlorofluoromethane	1288.24	0.3	10	2 U	1 U	1 U	0.3 U
Vinyl Chloride	2	0.3	10	2 U	1 U	1 U	0.3 U
Xylene (Total)	10000	0.6	4	4 U	2 U	2 U	0.6 U

TABLE 3-42
ANALYTICAL RESULTS FOR WELL PC-028
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012

Notes:

a NDEP BCL are reported in the same unit as analytical group. Source of NDEP BCL's are from May 2012 update. MCL applied where no BCL exists.
b Bolded results exceed the associated screening level.
c MCL for Adjusted Gross Alpha (Total) was calculated using the following equation
Adjusted Gross Alpha (Total) MCL = Alpha Total - (Uranium 234 + Uranium 235 + Uranium 238)
d MCL for Radium was calculated using the following equation: Radium MCL = Radium 226 + Radium 228
e Total Trihalomethanes were calculated using the following equation:
Total Trihalomethanes = Bromodichloromethane + Bromoform + Chloroform + Dibromochloromethane
f Reporting limit exceeds the screening level due to analytical limitations or sample dilution.

Qualifiers:

J Estimated value
U Analyte not detected; the reporting limit is reported in the table
R Rejected data point

+ Biased high
- Biased low
µg/L Microgram per liter
MCL Maximum contaminant level
MDC Minimum detectable concentration
mg/L Milligram per liter
NA Not anaylzed; or not calculated if components are not detected
pCi/L Picocurie per liter
QTR Quarter
SL Screening level

TABLE 3-43
ANALYTICAL RESULTS FOR WELL PC-054
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
ALKALINITY (reported in mg/L)							
Bicarbonate Alkalinity		100	120	110	110	110	100 J
ANIONS (reported in mg/L)							
Chloride	4	500	730	**580**	**560**	**540**	**500 J**
Nitrate	10	26	35	**33**	**34**	**35**	**33 J**
Perchlorate	0.018	190	270	**230**	**230**	**220**	**190 J**
Sulfate	250	2300	2600	**2500**	**2400**	**2400**	**2300 J**
GENERAL							
Fluoride	4	1.1	1.3	1.3	1.3	1.3	1.1 J
Nitrite	1	0.15	1	0.5 U	0.5 U	0.5 U	0.15 U
Total Phosphorus		0.05	0.2	0.2	0.059	0.05 U	0.062
RADIONUCLIDES (reported in pCi/L)							
Alpha (Total)		61.1	61.1	NA	NA	NA	NA
Adjusted Gross Alpha (Total) MCL [c]	15	-48	-48	NA	NA	NA	NA
Beta (Total)	50	49.4	49.4	NA	NA	NA	NA
Uranium 238		45.7	45.7	NA	NA	NA	NA
Uranium 234		60.9	60.9	NA	NA	NA	NA
Thorium 230	0.042	0.149	0.149	NA	NA	NA	NA
Radium 226	5	2.49	2.49	NA	NA	NA	NA
Radon 222	300	2530	2530	NA	NA	NA	NA
Lead 214		5.13	5.13	NA	NA	NA	NA
Bismuth 214		8.12	8.12	NA	NA	NA	NA
Lead 210		1.32	1.32	NA	NA	NA	NA
Thorium 232	0.14	0.0225	0.0225	NA	NA	NA	NA
Radium 228	5	0.905	0.905	NA	NA	NA	NA
Radium MCL [d]	5	3.4	3.4	NA	NA	NA	NA
Actinium-228		-0.109	-0.109	NA	NA	NA	NA
Thorium 228	0.11	0.0398	0.0398	NA	NA	NA	NA
Lead 212		-2.66	-2.66	NA	NA	NA	NA
Bismuth 212		-6.28	-6.28	NA	NA	NA	NA
Thallium 208		0.369	0.369	NA	NA	NA	NA

TABLE 3-43
ANALYTICAL RESULTS FOR WELL PC-054
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
RADIONUCLIDES (reported in pCi/L)							
Potassium 40		2.22	2.22	NA	NA	NA	NA
Uranium 235		2.5	2.5	NA	NA	NA	NA
Polonium-210				NA	NA	NA	NA
Protactinium-234		91.8	91.8	NA	NA	NA	NA
Radium-224		-2.66	-2.66	NA	NA	NA	NA
Thorium-227		1.35	1.35	NA	NA	NA	NA
Thorium-234		45.5	45.5	NA	NA	NA	NA
SOLIDS (reported in mg/L)							
Total Dissolved Solids	1900	5400	7100	**5900**	**5400**	**5700**	**5700 J**
TOTAL METAL (reported in ug/L)							
Aluminum	50	150	3300	**220 U [f]**	**150 U [f]**	**220 J**	**210 J**
Antimony	6	15	100	**100 U [f]**	**100 U [f]**	**100 U [f]**	**15 U [f]**
Arsenic	10	160	180	**170**	**180**	**170**	**170**
Barium	2000	7.2	34	7.7 J-	9.7 J	8 J	7.2 J
Beryllium	4	0.44	10	10 U [f]	**1.2 J**	3 J	0.88 U
Cadmium	5	1.6	25	25 U [f]	**25 U [f]**	**25 U [f]**	**1.6 U**
Calcium		540000	590000	540000 J-	550000	590000	550000 J-
Chromium	100	1300	1900	**1500**	**1500**	**1300**	**1300**
Chromium VI	100	1800	2500	**1800**	**NA**	NA	NA
Cobalt	10.95	1.1	50	2.7 U	50 U [f]	**50 U [f]**	**2.2 U**
Copper	1300	3.5	50	50 U	50 U	50 U	4.8 U
Iron	300	42	2300	72 U	500 U [f]	**150 J**	42 J
Lead	15	3	15	15 U	15	15 U	6.4 U
Lithium	73	450	760	**480 J+**	**490 J**	**480 J+**	**450 J**
Magnesium	206955	200000	230000	**200000 J-**	210000	**220000**	**200000 J-**
Manganese	20	51	120	**57**	**53**	**64**	**51**
Mercury	2	0.0029	0.2	0.036 J-	0.2 U	0.0097 J	0.0029 U
Molybdenum	182.5	22	35	24 J-	32 J	22 J	29 J
Nickel	730	4.2	100	100 U	100 U	100 U	4.7 U

TABLE 3-43
ANALYTICAL RESULTS FOR WELL PC-054
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
TOTAL METAL (reported in ug/L)							
Potassium		15000	25000	17000	17000	15000 J	16000 J
Selenium	50	3	25	25 U	25 U	25 U	13 U
Silicon		39000	45000	41000 J-	45000	44000	45000 J-
Silver	100	0.74	50	6.6 J	50 U	50 U	5.4 U
Sodium		620000	880000	730000 J-	700000	630000 J	620000 J-
Thallium	2	0.03	0.2	0.04 U	0.05 U	0.12 J	0.03 J
Tin	21900	14	250	250 U	250 U	250 U	14 U
Titanium	146000	1.4	120	100 U	100 U	100 U	1.4 U
Uranium	30	100	160	**100**	**110**	**130**	**100**
Vanadium	182.5	83	100	88	99	100	100
Zinc	10950	3.6	200	100 U	100 U	100 U	3.6 U
Zirconium		2.5	20	3.1 U	8.8 U	19 J	2.5 U
VOLATILES (reported in ug/L)							
1,1,1-Trichloroethane	200	1	10	2 U	1 U	1 U	1 U
1,1,2-Trichloroethane	5	1	10	2 U	1 U	1 U	1 U
1,1-Dichloroethane	2.41809	1	10	2 U	1 U	1 U	1 U
1,1-Dichloroethene	7	1	10	2 U	1 U	1 U	1 U
1,2-Dichloroethane	5	1	10	2 U	1 U	1 U	1 U
1,2-Dichloropropane	5	1	10	2 U	1 U	1 U	1 U
1,3-Dichlorobenzene	86.7327	1.9	3.7	2.2	2.3	2.5	1.9
2-Butanone	7064.52	10	100	20 U	10 U	10 U	10 U
4-Methyl-2-Pentanone	1990.91	10	100	20 U	10 U	10 U	10 U
Acetone	21782.9	10	20	20 U	10 U	10 U	10 U
Benzene	5	1	10	2 U	1 U	1 U	1 U
Bromodichloromethane	0.1173	1	10	**2 U [f]**	**1 U [f]**	**1 U [f]**	**1 U [f]**
Bromoform	8.51032	1	10	2 U	1 U	1 U	1 U
Bromomethane	8.66102	1	10	2 U	1 U	1 U	1 U
Carbon Disulfide	1042.86	1	10	2 U	1 U	1 U	1 U
Carbon Tetrachloride	5	0.24	10	2 U	0.24 J	0.5 J	1 U

TABLE 3-43
ANALYTICAL RESULTS FOR WELL PC-054
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
VOLATILES (reported in ug/L)							
Chlorobenzene	100	1	10	2 U	1 U	1 U	1 U
Chloroform	0.19279	49	320	**71**	**49**	**65**	**54**
Chloromethane	2.7037	1	10	2 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	70	1	10	2 U	1 U	1 U	1 U
Dibromochloromethane	0.14712	1	10	**2 U [f]**	**1 U [f]**	**1 U [f]**	**1 U [f]**
Ethylbenzene	700	1	10	2 U	1 U	1 U	1 U
Methylene Chloride	5	0.29	10	2 U	0.37 U	0.58 J	1 U
Naphthalene	0.14314	1	10	**2 U [f]**	**1 U [f]**	**1 U [f]**	**1 U [f]**
Styrene	100	1	10	2 U	1 U	1 U	1 U
Tetrachloroethene	5	0.8	3.1	1.6 J	1.4	1.4	0.8 J
Toluene	1000	1	10	2 U	1 U	1 U	1 U
Total Trihalomethanes [e]	80	49	320	71	49	65	54
Trans-1,2-Dichloroethene	100	1	10	2 U	1 U	1 U	1 U
Trichloroethene	5	0.19	10	2 U	1 U	1 U	1 U
Trichlorofluoromethane	1288.24	1	10	2 U	1 U	1 U	1 U
Vinyl Chloride	2	1	10	2 U	1 U	1 U	1 U
Xylene (Total)	10000	2	4	4 U	2 U	NA	2 U

TABLE 3-43
ANALYTICAL RESULTS FOR WELL PC-054
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012

Notes:

a NDEP BCL are reported in the same unit as analytical group. Source of NDEP BCL's are from May 2012 update. MCL applied where no BCL exists.
b Bolded results exceed the associated screening level.
c MCL for Adjusted Gross Alpha (Total) was calculated using the following equation
Adjusted Gross Alpha (Total) MCL = Alpha Total - (Uranium 234 + Uranium 235 + Uranium 238)
d MCL for Radium was calculated using the following equation: Radium MCL = Radium 226 + Radium 228
e Total Trihalomethanes were calculated using the following equation:
Total Trihalomethanes = Bromodichloromethane + Bromoform + Chloroform + Dibromochloromethane
f Reporting limit exceeds the screening level due to analytical limitations or sample dilution.

Qualifiers:

J Estimated value
U Analyte not detected; the reporting limit is reported in the table
R Rejected data point

+ Biased high
- Biased low
µg/L Microgram per liter
MCL Maximum contaminant level
MDC Minimum detectable concentration
mg/L Milligram per liter
NA Not anaylzed; or not calculated if components are not detected
pCi/L Picocurie per liter
QTR Quarter
SL Screening level

TABLE 3-44
ANALYTICAL RESULTS FOR WELL PC-067
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
ALKALINITY (reported in mg/L)							
Bicarbonate Alkalinity		120	140	130	140	140	140 J
ANIONS (reported in mg/L)							
Chloride	4	3500	4700	**4000**	**3700 J**	**3700**	**3500 J**
Nitrate	10	39	47	**45**	**41 J**	**39**	**39 J**
Perchlorate	0.018	46	90	**90**	**73 J**	**63**	**46 J**
Sulfate	250	2500	3000	**2900**	**2900 J**	**2800**	**2500 J**
GENERAL							
Fluoride	4	1.2	2	1.6	2 UJ	2 U	1.2 J
Nitrite	1	1	2	**1 U**	2 U [f]	**2 U [f]**	**1 U**
Total Phosphorus		0.05	0.1	0.1	0.079	0.05 U	0.05 U
RADIONUCLIDES (reported in pCi/L)							
Alpha (Total)		69	69	NA	NA	NA	NA
Adjusted Gross Alpha (Total) MCL [c]	15	-55.44	-55.44	NA	NA	NA	NA
Beta (Total)	50	113	113	NA	NA	NA	NA
Uranium 238		50.6	50.6	NA	NA	NA	NA
Uranium 234		71.6	71.6	NA	NA	NA	NA
Thorium 230	0.042	0.0609	0.0609	NA	NA	NA	NA
Radium 226	5	1.79	1.79	NA	NA	NA	NA
Radon 222	300	1170	1170	NA	NA	NA	NA
Lead 214		56.6	56.6	NA	NA	NA	NA
Bismuth 214		52.6	52.6	NA	NA	NA	NA
Lead 210		0.288	0.288	NA	NA	NA	NA
Thorium 232	0.14	0.0342	0.0342	NA	NA	NA	NA
Radium 228	5	0.287	0.287	NA	NA	NA	NA
Radium MCL [d]	5	1.79	1.79	NA	NA	NA	NA
Actinium-228		14.8	14.8	NA	NA	NA	NA
Thorium 228	0.11	-0.0169	-0.0169	NA	NA	NA	NA
Lead 212		3.57	3.57	NA	NA	NA	NA
Bismuth 212		36.8	36.8	NA	NA	NA	NA
Thallium 208		4.25	4.25	NA	NA	NA	NA

TABLE 3-44
ANALYTICAL RESULTS FOR WELL PC-067
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
RADIONUCLIDES (reported in pCi/L)							
Potassium 40		41.1	41.1	NA	NA	NA	NA
Uranium 235		2.24	2.24	NA	NA	NA	NA
Polonium-210				NA	NA	NA	NA
Protactinium-234		-44.4	-44.4	NA	NA	NA	NA
Radium-224		3.57	3.57	NA	NA	NA	NA
Thorium-227		-1.52	-1.52	NA	NA	NA	NA
Thorium-234		5.32	5.32	NA	NA	NA	NA
SOLIDS (reported in mg/L)							
Total Dissolved Solids	1900	11000	12000	**11000**	**11000**	**11000**	**12000 J**
TOTAL METAL (reported in ug/L)							
Aluminum	50	130	590	**130 R**	**500 U [f]**	**550**	**440**
Antimony	6	3	100	**100 RU [f]**	**100 U [f]**	**100 U [f]**	**3 U**
Arsenic	10	130	230	**230 R**	**170**	**170**	**160**
Barium	2000	12	36	12 R	26 J	33 J	28 J
Beryllium	4	0.18	10	**10 RU [f]**	**10 U [f]**	**2.6 J**	0.18 U
Cadmium	5	0.33	25	**25 RU [f]**	**25 U [f]**	**25 U [f]**	**0.33 U**
Calcium		640000	730000	640000 R	650000 J	690000	710000 J
Chromium	100	440	1200	**1200 R**	**800**	**700**	**440 J-**
Chromium VI	100	680	980	**980**	**NA**	NA	NA
Cobalt	10.95	0.75	50	**50 RU [f]**	**50 U [f]**	**50 U [f]**	**0.75 J**
Copper	1300	0.69	50	50 RU	50 U	50 U	0.97 U
Iron	300	110	500	**110 R**	500 U [f]	**410 J**	**260**
Lead	15	1.3	15	15 RU	15 U	15 U	1.3 U
Lithium	73	440	640	**440 R**	**540**	**570 J+**	**610**
Magnesium	206955	210000	340000	**210000 R**	**300000 J**	**310000**	**270000 J-**
Manganese	20	2.4	34	**2.4 R**	7.5 J	34 J	**19 J-**
Mercury	2	0.0098	0.2	0.2 RU	0.2 U	0.0098 J	0.052 J
Molybdenum	182.5	31	220	**31 R**	200	**210**	**180**
Nickel	730	3.5	100	100 RU	100 U	100 U	3.5 J-

TABLE 3-44
ANALYTICAL RESULTS FOR WELL PC-067
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
TOTAL METAL (reported in ug/L)							
Potassium		12000	47000	12000 R	32000 J	33000 J	45000 J+
Selenium	50	2.7	25	25 RU	25 U	25 U	2.7 U
Silicon		36000	43000	39000 R	42000	43000	39000
Silver	100	0.84	50	50 RU	50 U	50 U	1.1 U
Sodium		960000	2400000	960000 R	2200000	2100000 J	2100000 J
Thallium	2	0.05	0.2	0.05 R	0.06 U	0.08 J	0.08 J
Tin	21900	2.8	250	250 RU	250 U	250 U	2.8 U
Titanium	146000	11	100	100 RU	100 U	11 J	13 J
Uranium	30	110	170	**110 R**	**140**	**140**	**150**
Vanadium	182.5	40	120	120 R	49 J	46 J	40 J-
Zinc	10950	0.72	280	100 RU	100 U	100 U	0.72 U
Zirconium		0.5	100	100 RU	14 U	17 J	0.5 U
VOLATILES (reported in ug/L)							
1,1,1-Trichloroethane	200	0.3	50	2 U	1 U	1 U	0.3 U
1,1,2-Trichloroethane	5	0.3	50	2 U	1 U	1 U	0.3 U
1,1-Dichloroethane	2.41809	0.27	50	0.48 J	0.27 J	1 U	0.3 U
1,1-Dichloroethene	7	1	50	2.2	1.1	1.1	1
1,2-Dichloroethane	5	0.2	50	2 U	1 U	1 U	0.3 U
1,2-Dichloropropane	5	0.3	50	2 U	1 U	1 U	0.3 U
1,3-Dichlorobenzene	86.7327	0.89	50	2.3	1.2	1 J	0.89 J
2-Butanone	7064.52	3	500	20 U	10 U	10 U	3 U
4-Methyl-2-Pentanone	1990.91	3	500	20 U	10 U	10 U	3 U
Acetone	21782.9	6.4	20	20 RU	10 U	10 U	6.4 U
Benzene	5	0.3	50	2 U	1 U	1 U	0.3 U
Bromodichloromethane	0.1173	0.49	50	**0.99 J**	**0.7 J**	**0.68 J**	**0.49 J**
Bromoform	8.51032	0.3	50	2 U	1 U	1 U	0.3 U
Bromomethane	8.66102	0.3	50	2 U	1 U	1 U	0.3 U
Carbon Disulfide	1042.86	0.3	50	2 U	1 U	1 U	0.3 U
Carbon Tetrachloride	5	7.3	17	**17**	**8.4**	**8.3**	**7.3**

TABLE 3-44
ANALYTICAL RESULTS FOR WELL PC-067
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
VOLATILES (reported in ug/L)							
Chlorobenzene	100	0.3	50	2 U	1 U	1 U	0.3 U
Chloroform	0.19279	710	990	**830**	**710**	**860**	**760**
Chloromethane	2.7037	0.33	50	2 U	1 U	1 U	0.33 U
cis-1,2-Dichloroethene	70	0.3	50	2 U	1 U	1 U	0.3 U
Dibromochloromethane	0.14712	0.17	50	**2 U [f]**	**1 U [f]**	**1 U [f]**	**0.3 U [f]**
Ethylbenzene	700	0.3	50	2 U	1 U	1 U	0.3 U
Methylene Chloride	5	0.22	50	2 U	0.22 U	1 U	0.32 U
Naphthalene	0.14314	0.42	50	**2 U [f]**	**1 U [f]**	**1 U [f]**	**0.42 U [f]**
Styrene	100	0.3	50	2 U	1 U	1 U	0.3 U
Tetrachloroethene	5	14	43	**43**	**19**	**16**	**14**
Toluene	1000	0.3	50	2 U	1 U	1 U	0.3 U
Total Trihalomethanes [e]	80	0.49	990	**830.99**	**710.7**	**860.68**	**760.49**
Trans-1,2-Dichloroethene	100	0.3	50	2 U	1 U	1 U	0.3 U
Trichloroethene	5	0.45	50	1.1 J	0.45 J	0.46 J	0.5 J
Trichlorofluoromethane	1288.24	0.3	50	2 U	1 U	1 U	0.3 U
Vinyl Chloride	2	0.3	50	2 U	1 U	1 U	0.3 U
Xylene (Total)	10000	0.6	4	4 U	2 U	2 U	0.6 U

TABLE 3-44
ANALYTICAL RESULTS FOR WELL PC-067
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012

Notes:

a NDEP BCL are reported in the same unit as analytical group. Source of NDEP BCL's are from May 2012 update. MCL applied where no BCL exists.
b Bolded results exceed the associated screening level.
c MCL for Adjusted Gross Alpha (Total) was calculated using the following equation
Adjusted Gross Alpha (Total) MCL = Alpha Total - (Uranium 234 + Uranium 235 + Uranium 238)
d MCL for Radium was calculated using the following equation: Radium MCL = Radium 226 + Radium 228
e Total Trihalomethanes were calculated using the following equation:
Total Trihalomethanes = Bromodichloromethane + Bromoform + Chloroform + Dibromochloromethane
f Reporting limit exceeds the screening level due to analytical limitations or sample dilution.

Qualifiers:

J Estimated value
U Analyte not detected; the reporting limit is reported in the table
R Rejected data point

+ Biased high
- Biased low
µg/L Microgram per liter
MCL Maximum contaminant level
MDC Minimum detectable concentration
mg/L Milligram per liter
NA Not anaylzed; or not calculated if components are not detected
pCi/L Picocurie per liter
QTR Quarter
SL Screening level

TABLE 3-45
ANALYTICAL RESULTS FOR WELL PC-124
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
ALKALINITY (reported in mg/L)							
Bicarbonate Alkalinity		78	81	79	81	80	78
ANIONS (reported in mg/L)							
Chloride	4	2400	2700	**2700**	**2700 J**	**2700**	**2500**
Nitrate	10	21	24	**24**	**24 J**	**24**	**24**
Perchlorate	0.018	5.4	7.1	**6.5**	**6.5 J**	**7.1**	**6.7**
Sulfate	250	1900	2200	**2200**	**2100 J**	**2000**	**2000**
GENERAL							
Fluoride	4	1	1.1	1.1	1 UJ	1 U	1 U
Nitrite	1	1	1	1 U	1 U	1 U	1 U
Total Phosphorus		0.05	0.063	0.063	0.05 U	0.05 U	0.05 U
RADIONUCLIDES (reported in pCi/L)							
Alpha (Total)				NA	NA	NA	NA
Adjusted Gross Alpha (Total) MCL [c]	15	0	0	NA	NA	NA	NA
Beta (Total)	50			NA	NA	NA	NA
Uranium 238				NA	NA	NA	NA
Uranium 234				NA	NA	NA	NA
Thorium 230	0.042			NA	NA	NA	NA
Radium 226	5			NA	NA	NA	NA
Radon 222	300			NA	NA	NA	NA
Lead 214				NA	NA	NA	NA
Bismuth 214				NA	NA	NA	NA
Lead 210				NA	NA	NA	NA
Thorium 232	0.14			NA	NA	NA	NA
Radium 228	5			NA	NA	NA	NA
Radium MCL [d]	5	0	0	NA	NA	NA	NA
Actinium-228				NA	NA	NA	NA
Thorium 228	0.11			NA	NA	NA	NA
Lead 212				NA	NA	NA	NA
Bismuth 212				NA	NA	NA	NA
Thallium 208				NA	NA	NA	NA

TABLE 3-45
ANALYTICAL RESULTS FOR WELL PC-124
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
RADIONUCLIDES (reported in pCi/L)							
Potassium 40				NA	NA	NA	NA
Uranium 235				NA	NA	NA	NA
Polonium-210				NA	NA	NA	NA
Protactinium-234				NA	NA	NA	NA
Radium-224				NA	NA	NA	NA
Thorium-227				NA	NA	NA	NA
Thorium-234				NA	NA	NA	NA
SOLIDS (reported in mg/L)							
Total Dissolved Solids	1900	6600	8400	**7100**	**7600**	**7900**	**8400**
TOTAL METAL (reported in ug/L)							
Aluminum	50	95	500	**95 U [f]**	**110**	**500 U [f]**	**270 J**
Antimony	6	15	100	**100 U [f]**	**20 U [f]**	**100 U [f]**	**15 U [f]**
Arsenic	10	87	90	**87**	**89**	**87**	**90**
Barium	2000	12	19	12 J-	17 J	19 J	18 J
Beryllium	4	0.88	10	**10 U [f]**	**2 U**	1.6 J	0.88 U
Cadmium	5	1.6	25	**25 U [f]**	**5 U**	25 U [f]	**1.6 U**
Calcium		860000	910000	890000 J-	860000 J	910000	880000 J-
Chromium	100	35	59	35 J-	40	50 J	59
Chromium VI	100	45	58	58	NA	NA	NA
Cobalt	10.95	2.2	50	**50 U [f]**	**10 U**	50 U [f]	**2.2 U**
Copper	1300	4.8	50	50 U	10 U	50 U	4.8 U
Iron	300	38	210	38 U	110	88 J	130 J
Lead	15	3	15	15 U	3 U	15 U	6.4 U
Lithium	73	460	530	**460 J+**	**530 J+**	**480 J+**	**490 J**
Magnesium	206955	330000	380000	**350000 J-**	**330000 J**	**380000**	**370000 J-**
Manganese	20	3.2	50	50 U [f]	**5.6 J-**	50 U [f]	**3.2 J**
Mercury	2	0.0029	0.026	0.011 J-	0.026 U	0.0051 J	0.0029 U
Molybdenum	182.5	58	66	59	58	61	66
Nickel	730	4.7	100	100 U	6 J	100 U	4.7 U

TABLE 3-45
ANALYTICAL RESULTS FOR WELL PC-124
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
TOTAL METAL (reported in ug/L)							
Potassium		25000	33000	27000	33000 J+	27000 J	29000
Selenium	50	4.2	25	25 U	4.2 U	25 U	13 U
Silicon		38000	44000	39000 J-	38000	42000	44000 J-
Silver	100	5.4	50	50 U	10 U	50 U	5.4 U
Sodium		860000	960000	920000 J-	930000 J+	860000 J	960000 J-
Thallium	2	0.04	0.2	0.04 U	0.08 U	0.15 J	0.08 J
Tin	21900	14	250	250 U	50 U	250 U	14 U
Titanium	146000	1.4	100	100 U	20 U	100 U	1.4 U
Uranium	30	35	37	**37**	**36**	**36**	**36**
Vanadium	182.5	25	32	28 U	25	25 J	30 J
Zinc	10950	3.6	100	100 U	31	100 U	3.6 U
Zirconium		2.5	20	4.8 U	20 U	20 J	2.5 U
VOLATILES (reported in ug/L)							
1,1,1-Trichloroethane	200	0.3	1	1 U	1 U	1 U	0.3 U
1,1,2-Trichloroethane	5	0.3	1	1 U	1 U	1 U	0.3 U
1,1-Dichloroethane	2.41809	0.2	1	0.21 J	0.21 J	1 U	0.3 U
1,1-Dichloroethene	7	1.3	1.9	1.9	1.9	1.6	1.3
1,2-Dichloroethane	5	0.3	1	1 U	1 U	1 U	0.3 U
1,2-Dichloropropane	5	0.3	1	1 U	1 U	1 U	0.3 U
1,3-Dichlorobenzene	86.7327	0.3	1	1 U	1 U	1 U	0.3 U
2-Butanone	7064.52	3	10	10 U	10 U	10 U	3 U
4-Methyl-2-Pentanone	1990.91	3	10	10 U	10 U	10 U	3 U
Acetone	21782.9	6.4	10	10 U	10 U	10 U	6.4 U
Benzene	5	0.3	1	1 U	1 U	1 U	0.3 U
Bromodichloromethane	0.1173	0.3	1	**1 U [f]**	**1 U [f]**	**1 U [f]**	**0.3 U [f]**
Bromoform	8.51032	0.3	1	1 U	1 U	1 U	0.3 U
Bromomethane	8.66102	0.3	1	1 U	1 U	1 U	0.3 U
Carbon Disulfide	1042.86	0.3	1	1 U	1 U	1 U	0.3 U
Carbon Tetrachloride	5	0.59	0.98	0.76 J	0.89 J	0.98 J	0.66 J

TABLE 3-45
ANALYTICAL RESULTS FOR WELL PC-124
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
VOLATILES (reported in ug/L)							
Chlorobenzene	100	0.3	1	1 U	1 U	1 U	0.3 U
Chloroform	0.19279	180	300	**230**	**220**	**300**	**260**
Chloromethane	2.7037	0.33	1	1 U	1 U	1 U	0.33 U
cis-1,2-Dichloroethene	70	0.2	1	0.2 J	1 U	1 U	0.3 U
Dibromochloromethane	0.14712	0.3	1	**1 U [f]**	**1 U [f]**	**1 U [f]**	**0.3 U [f]**
Ethylbenzene	700	0.3	1	1 U	1 U	1 U	0.3 U
Methylene Chloride	5	0.32	1	1 U	1 U	1 U	0.32 U
Naphthalene	0.14314	0.42	1	**1 U [f]**	**1 U [f]**	**1 U [f]**	**0.42 U [f]**
Styrene	100	0.3	1	1 U	1 U	1 U	0.3 U
Tetrachloroethene	5	0.75	0.99	0.98 J	0.99 J	0.86 J	0.75 J
Toluene	1000	0.3	1	1 U	1 U	1 U	0.3 U
Total Trihalomethanes [e]	80	180	300	**230**	**220**	**300**	**260**
Trans-1,2-Dichloroethene	100	0.3	1	1 U	1 U	1 U	0.3 U
Trichloroethene	5	0.75	1.1	1.1	1 J	0.85 J	0.75 J
Trichlorofluoromethane	1288.24	0.3	1	1 U	1 U	1 U	0.3 U
Vinyl Chloride	2	0.3	1	1 U	1 U	1 U	0.3 U
Xylene (Total)	10000	0.6	2	2 U	2 U	NA	0.6 U

TABLE 3-45
ANALYTICAL RESULTS FOR WELL PC-124
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012

Notes:

a NDEP BCL are reported in the same unit as analytical group. Source of NDEP BCL's are from May 2012 update. MCL applied where no BCL exists.
b Bolded results exceed the associated screening level.
c MCL for Adjusted Gross Alpha (Total) was calculated using the following equation
Adjusted Gross Alpha (Total) MCL = Alpha Total - (Uranium 234 + Uranium 235 + Uranium 238)
d MCL for Radium was calculated using the following equation: Radium MCL = Radium 226 + Radium 228
e Total Trihalomethanes were calculated using the following equation:
Total Trihalomethanes = Bromodichloromethane + Bromoform + Chloroform + Dibromochloromethane
f Reporting limit exceeds the screening level due to analytical limitations or sample dilution.

Qualifiers:

J Estimated value
U Analyte not detected; the reporting limit is reported in the table
R Rejected data point

+ Biased high
- Biased low
µg/L Microgram per liter
MCL Maximum contaminant level
MDC Minimum detectable concentration
mg/L Milligram per liter
NA Not anaylzed; or not calculated if components are not detected
pCi/L Picocurie per liter
QTR Quarter
SL Screening level

TABLE 3-46
ANALYTICAL RESULTS FOR WELL POU-3
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
ALKALINITY (reported in mg/L)							
Bicarbonate Alkalinity		68	148	100	68	74	76
ANIONS (reported in mg/L)							
Chloride	4	64.8	3800	**3500 J**	**3800**	**2700**	**1600**
Nitrate	10	4	121	**14 J**	**14**	**12**	**11**
Perchlorate	0.018	11	41	**37 J**	**41**	**28**	**11**
Sulfate	250	1280	2700	**2600 J**	**2500**	**2300**	**2100**
GENERAL							
Fluoride	4	1	2	1 UJ	2 U	1 U	1 U
Nitrite	1	1	2	1 U	2 U [f]	**1 U**	1 U
Total Phosphorus		0.05	0.15	0.15	0.073	0.05 U	0.05 U
RADIONUCLIDES (reported in pCi/L)							
Alpha (Total)		-20	51	NA	NA	NA	NA
Adjusted Gross Alpha (Total) MCL [c]	15	-63.94	41.87	NA	NA	NA	NA
Beta (Total)	50	-5	33	NA	NA	NA	NA
Uranium 238		2	25.6	NA	NA	NA	NA
Uranium 234		3	36.9	NA	NA	NA	NA
Thorium 230	0.042	-0.0422	0.0337	NA	NA	NA	NA
Radium 226	5	-0.04	1	NA	NA	NA	NA
Radon 222	300	122	1270	NA	NA	NA	NA
Lead 214		-5.24	60.8	NA	NA	NA	NA
Bismuth 214		-0.0818	57.7	NA	NA	NA	NA
Lead 210		0.272	0.56	NA	NA	NA	NA
Thorium 232	0.14	0.00387	0.0357	NA	NA	NA	NA
Radium 228	5	-0.19	0.77	NA	NA	NA	NA
Radium MCL [d]	5	-0.02	1.12	NA	NA	NA	NA
Actinium-228		-2.18	23.4	NA	NA	NA	NA
Thorium 228	0.11	0.0258	0.0422	NA	NA	NA	NA
Lead 212		-1.35	1.3	NA	NA	NA	NA
Bismuth 212		-5.62	41.5	NA	NA	NA	NA
Thallium 208		0.967	6.01	NA	NA	NA	NA

WELL ID: POU-3

TABLE 3-46
ANALYTICAL RESULTS FOR WELL POU-3
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
RADIONUCLIDES (reported in pCi/L)							
Potassium 40		-40.4	49.8	NA	NA	NA	NA
Uranium 235		0.033	7.75	NA	NA	NA	NA
Polonium-210				NA	NA	NA	NA
Protactinium-234		24.5	646	NA	NA	NA	NA
Radium-224		1.3	1.3	NA	NA	NA	NA
Thorium-227		-0.152	2.6	NA	NA	NA	NA
Thorium-234		-49.3	222	NA	NA	NA	NA
SOLIDS (reported in mg/L)							
Total Dissolved Solids	1900	3110	9900	**9000**	**9900**	**7900**	**6400**
TOTAL METAL (reported in ug/L)							
Aluminum	50	14	460	**180 J-**	**160 U [f]**	**170 J**	**76 U [f]**
Antimony	6	7.6	100	**100 U [f]**	**100 U [f]**	**100 U [f]**	**15 U [f]**
Arsenic	10	12.7	110	**74**	**70**	**89**	**94**
Barium	2000	9.1	27	26 J-	25 J	21 J	9.1 J
Beryllium	4	0.081	10	**10 U [f]**	**1.2 J**	2.7 J	0.88 U
Cadmium	5	0.33	25	**25 U [f]**	**25 U [f]**	**25 U [f]**	**1.6 U**
Calcium		212000	840000	790000 J	840000	720000	610000
Chromium	100	3	530	**430**	**530**	**340**	**120**
Chromium VI	100	240	570	**490**	**NA**	NA	NA
Cobalt	10.95	0.82	50	**50 U [f]**	**50 U [f]**	**50 U [f]**	**2.2 U**
Copper	1300	0.82	50	50 U	50 U	50 U	4.8 U
Iron	300	12	500	160 U	500 U [f]	**130 J**	25 U
Lead	15	1	15	15 U	15 U	15 U	6.4 U
Lithium	73	200	260	**230 J+**	**250 J**	**220 J+**	**200**
Magnesium	206955	81100	430000	**400000 J**	**430000**	**350000**	**250000**
Manganese	20	1.1	88.7	25 U [f]	**6.5 J**	7.1 J	1.1 J
Mercury	2	0.0029	0.2	0.2 U	0.011 U	0.0049 J	0.0029 U
Molybdenum	182.5	38	87	82	87	71	38 J
Nickel	730	1.6	100	100 U	100 U	100 U	4.7 U

TABLE 3-46
ANALYTICAL RESULTS FOR WELL POU-3
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
TOTAL METAL (reported in ug/L)							
Potassium		13000	53000	49000 J	53000	38000 J	22000
Selenium	50	1.3	25	25 U	25 U	25 U	13 U
Silicon		38000	44000	42000	43000	44000	43000
Silver	100	1.5	50	50 U	50 U	50 U	5.4 U
Sodium		525000	1600000	1500000 J	1600000	1300000 J	850000
Thallium	2	0.02	0.2	0.02 U	0.09 U	0.03 J	0.03 J
Tin	21900	14	250	250 U	250 U	250 U	14 U
Titanium	146000	1.4	100	100 U	100 U	100 U	1.4 U
Uranium	30	8.5	45.2	17	8.5	12	20
Vanadium	182.5	11	38.2	17 J-	16 J	19 J	26 J
Zinc	10950	2.2	170	100 U	100 U	100 U	3.6 U
Zirconium		2.5	12	5.2 J-	11 U	12 J	2.5 U
VOLATILES (reported in ug/L)							
1,1,1-Trichloroethane	200	0.3	50	2 U	1 U	1 U	0.3 U
1,1,2-Trichloroethane	5	0.3	50	2 U	1 U	1 U	0.3 U
1,1-Dichloroethane	2.41809	0.26	50	1.3 J	0.87 J	0.65 J	0.3 U
1,1-Dichloroethene	7	1.5	50	3	1.8	1.5	1.8 J
1,2-Dichloroethane	5	0.3	50	2 J	1.3	1 J	0.3 U
1,2-Dichloropropane	5	0.3	50	1.7 J	1.2	0.79 J	0.3 U
1,3-Dichlorobenzene	86.7327	0.4	50	0.92 J	0.4 J	0.76 J	1.2 J
2-Butanone	7064.52	3	500	20 U	10 U	10 U	3 U
4-Methyl-2-Pentanone	1990.91	1.3	500	20 U	10 U	10 U	3 U
Acetone	21782.9	3	20	20 U	10 U	10 U	6.4 U
Benzene	5	0.21	50	2 U	1 U	1 U	0.3 U
Bromodichloromethane	0.1173	1	33	**33**	**17**	**4.7**	**2.2**
Bromoform	8.51032	0.71	50	10	**5.7**	2.1	0.71 J
Bromomethane	8.66102	0.3	50	2 U	1 U	1 U	0.3 U
Carbon Disulfide	1042.86	0.3	50	2 U	1 U	1 U	0.3 U
Carbon Tetrachloride	5	1	29	**29**	**15**	**11**	**4.2**

TABLE 3-46
ANALYTICAL RESULTS FOR WELL POU-3
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012
VOLATILES (reported in ug/L)							
Chlorobenzene	100	0.27	50	0.96 J	0.27 J	0.44 J	0.3 U
Chloroform	0.19279	8.2	1200	**1200**	**1100**	**810**	**350**
Chloromethane	2.7037	0.33	50	2 U	1 U	1 U	0.33 U
cis-1,2-Dichloroethene	70	0.21	50	1.3 J	0.97 J	0.6 J	0.3 U
Dibromochloromethane	0.14712	1	15	**15**	**8.3**	**2.5**	**1.1 J**
Ethylbenzene	700	0.3	50	2 U	1 U	1 U	0.3 U
Methylene Chloride	5	0.6	50	6.3	**1.2 U**	2.8 J	2.2 J
Naphthalene	0.14314	0.42	50	**2 U [f]**	**1 U [f]**	**1 U [f]**	**0.42 U [f]**
Styrene	100	0.3	50	2 U	1 U	1 U	0.3 U
Tetrachloroethene	5	8.5	75	**17**	**8.5**	**14**	**39**
Toluene	1000	0.3	50	2 U	1 U	1 U	0.3 U
Total Trihalomethanes [e]	80	4.01	1200	**1258**	**1131**	**819.3**	**354.01**
Trans-1,2-Dichloroethene	100	0.3	50	2 U	1 U	1 U	0.3 U
Trichloroethene	5	0.47	50	5.9	**3.8**	2.5	1.5 J
Trichlorofluoromethane	1288.24	0.3	50	2 U	1 U	1 U	0.3 U
Vinyl Chloride	2	0.3	50	2 U	1 U	1 U	0.3 U
Xylene (Total)	10000	0.6	10	4 U	2 U	2 U	0.6 U

TABLE 3-46
ANALYTICAL RESULTS FOR WELL POU-3
2012 ANNUAL GROUNDWATER MONITORING REPORT

Analyte	NDEP BCL [a,b]	MIN Value (Since 2000)	MAX Value (Since 2000)	2nd SMSTR 2010	1st SMSTR 2011	2nd SMSTR 2011	1st SMSTR 2012

Notes:

a NDEP BCL are reported in the same unit as analytical group. Source of NDEP BCL's are from May 2012 update. MCL applied where no BCL exists.
b Bolded results exceed the associated screening level.
c MCL for Adjusted Gross Alpha (Total) was calculated using the following equation
Adjusted Gross Alpha (Total) MCL = Alpha Total - (Uranium 234 + Uranium 235 + Uranium 238)
d MCL for Radium was calculated using the following equation: Radium MCL = Radium 226 + Radium 228
e Total Trihalomethanes were calculated using the following equation:
Total Trihalomethanes = Bromodichloromethane + Bromoform + Chloroform + Dibromochloromethane
f Reporting limit exceeds the screening level due to analytical limitations or sample dilution.

Qualifiers:

J Estimated value
U Analyte not detected; the reporting limit is reported in the table
R Rejected data point

+ Biased high
- Biased low
µg/L Microgram per liter
MCL Maximum contaminant level
MDC Minimum detectable concentration
mg/L Milligram per liter
NA Not anaylzed; or not calculated if components are not detected
pCi/L Picocurie per liter
QTR Quarter
SL Screening level

TABLE 3-47
CATION-ANION BALANCE EVALUATION
DATA VALIDATION SUMMARY REPORT
GROUNDWATER MONITORING REPORT, 2ND SEMESTER AND 1ST SEMESTER 2012

Well ID	Date	Cation Sum (meq/L) [1]	Anion Sum (meq/L) [2]	Difference (%) [3]	CAB Results	TDS Measured (mg/L)	TDS Calculated (mg/L)	TDS Ratio [4]	TDS Results [5]	TDS Measured (mg/L)	EC Measured (uS/cm)	EC Ratio TDS:EC [6]	EC Results [7]	Qualifier
AA-01	2ndS2011	58	60	2.1	Acceptable	3600	3600	1.0	Acceptable	3600	5070	0.71	Acceptable	No qualifier
	1stS2012	71	68	2.1	Acceptable	5700	4400	1.3	**Unacceptable**	5700	5347	1.07	**Unacceptable**	J-TDS
AA-09	2ndS2011	85	86	0.8	Acceptable	6100	5200	1.2	Acceptable	6100	7520	0.81	Acceptable	No qualifier
	1stS2012	87	89	1.4	Acceptable	6400	5400	1.2	Acceptable	6400	8190	0.78	Acceptable	No qualifier
AA-27	2ndS2011	61	60	0.5	Acceptable	4300	3700	1.1	Acceptable	4300	4880	0.88	Acceptable	No qualifier
	1stS2012	60	62	1.8	Acceptable	4500	3900	1.2	Acceptable	4500	5220	0.86	Acceptable	No qualifier
AA-UW1	2ndS2011	58	57	1.5	Acceptable	4000	3600	1.1	Acceptable	4000	4680	0.85	Acceptable	No qualifier
	1stS2012	57	57	0.2	Acceptable	4100	3500	1.2	Acceptable	4100	4981	0.82	Acceptable	No qualifier
BRW-R1	2ndS2011	50	51	1.5	Acceptable	3600	3200	1.1	Acceptable	3600	4390	0.82	Acceptable	No qualifier
	1stS2012	50	54	4	Acceptable	3700	3300	1.1	Acceptable	3700	4340	0.85	Acceptable	No qualifier
CLD1-R	2ndS2011	47	55	7.7	**Unacceptable**	3800	3100	1.2	Acceptable	3800	5640	0.67	Acceptable	J-CAB
	1stS2012	Insufficient groundwater in well to sample.												NA
CLD4-R	2ndS2011	77	89	7.1	**Unacceptable**	5100	5200	0.99	**Unacceptable**	5100	9910	0.51	Acceptable	J-CAB/J-TDS
	1stS2012	82	90	4.5	Acceptable	6000	5300	1.1	Acceptable	6000	9790	0.61	Acceptable	No qualifier
CMT-101	2ndS2011	Incomplete dataset		NA	NA	5200	Incomplete dataset		NA	5200	8010	0.65	Acceptable	No qualifier
	1stS2012	Incomplete dataset			NA	5400	Incomplete dataset		NA	5400	8030	0.67	Acceptable	No qualifier
DBMW-1	2ndS2011	82	84	1.3	Acceptable	5600	5200	1.1	Acceptable	5600	7620	0.73	Acceptable	No qualifier
	1stS2012	84	84	0.4	Acceptable	6000	5200	1.1	Acceptable	6000	7294	0.82	Acceptable	No qualifier
DBMW-3	2ndS2011	120	130	2.6	Acceptable	8000	7600	1.0	Acceptable	8000	11480	0.70	Acceptable	No qualifier
	1stS2012	130	130	2.1	Acceptable	9000	8100	1.1	Acceptable	9000	11330	0.79	Acceptable	No qualifier
DBMW-4	2ndS2011	81	82	0.9	Acceptable	5300	5000	1.1	Acceptable	5300	6670	0.79	Acceptable	No qualifier
	1stS2012	81	77	2.4	Acceptable	5700	4800	1.2	Acceptable	5700	6721	0.85	Acceptable	No qualifier
DBMW-5	2ndS2011	79	78	0.6	Acceptable	5000	4700	1.1	Acceptable	5000	6500	0.77	Acceptable	No qualifier
	1stS2012	77	76	1	Acceptable	5500	4600	1.2	Acceptable	5500	6539	0.84	Acceptable	No qualifier
EWQAL-12	2ndS2011	73	75	1.1	Acceptable	5200	4500	1.2	Acceptable	5200	7280	0.71	Acceptable	No qualifier
	1stS2012	73	71	1.4	Acceptable	5200	4300	1.2	Acceptable	5200	6548	0.79	Acceptable	No qualifier
J2D1-R2	2ndS2011	100	110	4	Acceptable	7400	6300	1.2	Acceptable	7400	10570	0.70	Acceptable	No qualifier
	1stS2012	100	100	0.9	Acceptable	7300	5900	1.2	Acceptable	7300	10670	0.68	Acceptable	No qualifier
J2D2-R2	2ndS2011	82	86	2.6	Acceptable	5700	4800	1.2	Acceptable	5700	7670	0.74	Acceptable	No qualifier
	1stS2012	80	78	1.7	Acceptable	5800	4500	1.3	**Unacceptable**	5800	7416	0.78	Acceptable	J-TDS
J2D4	2ndS2011	140	160	6.8	**Unacceptable**	9800	8700	1.1	Acceptable	9800	14800	0.66	Acceptable	J-CAB
	1stS2012	130	140	1.3	Acceptable	9800	7800	1.3	**Unacceptable**	9800	15570	0.63	Acceptable	J-TDS
J2U2	2ndS2011	66	72	4.4	Acceptable	4800	4000	1.2	Acceptable	4800	6420	0.75	Acceptable	No qualifier
	1stS2012	71	67	3.1	Acceptable	4900	3900	1.2	Acceptable	4900	6200	0.79	Acceptable	No qualifier
M-129	2ndS2011	Incomplete dataset		NA	NA	5600	Incomplete dataset		NA	5600	8760	0.64	Acceptable	No qualifier
	1stS2012	Incomplete dataset		NA	NA	6100	Incomplete dataset		NA	6100	7640	0.8	Acceptable	No qualifier
M-130	2ndS2011	Incomplete dataset		NA	NA	6100	Incomplete dataset		NA	6100	9040	0.67	Acceptable	No qualifier
	1stS2012	Incomplete dataset		NA	NA	5800	Incomplete dataset		NA	5800	6980	0.83	Acceptable	No qualifier
MW-3R	2ndS2011	32	34	3.9	Acceptable	2200	2000	1.1	Acceptable	2200	3380	0.65	Acceptable	No qualifier
	1stS2012	41	44	3.9	Acceptable	2900	2500	1.2	Acceptable	2900	4330	0.67	Acceptable	No qualifier
MW-4	2ndS2011	41	43	2.2	Acceptable	3100	2700	1.2	Acceptable	3100	4050	0.77	Acceptable	No qualifier
	1stS2012	55	41	14.7	**Unacceptable**	3100	2800	1.1	Acceptable	3100	3640	0.85	Acceptable	J-CAB
MW-5	2ndS2011	50	55	4.1	Acceptable	3600	3300	1.1	Acceptable	3600	5160	0.70	Acceptable	No qualifier
	1stS2012	41	55	14.9	**Unacceptable**	4000	3100	1.3	**Unacceptable**	4000	4930	0.81	Acceptable	J-CAB/J-TDS
MW-6R	2ndS2011	39	43	5	Acceptable	3000	2500	1.2	Acceptable	3000	4070	0.74	Acceptable	No qualifier
	1stS2012	38	41	3.2	Acceptable	2900	2400	1.2	Acceptable	2900	3840	0.76	Acceptable	No qualifier

TABLE 3-47
CATION-ANION BALANCE EVALUATION
DATA VALIDATION SUMMARY REPORT
GROUNDWATER MONITORING REPORT, 2ND SEMESTER AND 1ST SEMESTER 2012

Well ID	Date	Cation Sum (meq/L) [1]	Anion Sum (meq/L) [2]	Difference (%) [3]	CAB Results	TDS Measured (mg/L)	TDS Calculated (mg/L)	TDS Ratio [4]	TDS Results [5]	TDS Measured (mg/L)	EC Measured (uS/cm)	EC Ratio TDS:EC [6]	EC Results [7]	Qualifier
PC-024	2ndS2011	70	170	41	**Unacceptable**	8400	9600	0.87	**Unacceptable**	8400	15110	0.56	Acceptable	J-CAB/J-TDS
	1stS2012	79	160	0.5	Acceptable	12000	9500	1.3	**Unacceptable**	12000	15550	0.77	Acceptable	J-TDS
PC-124	2ndS2011	110	120	2.7	Acceptable	7900	6900	1.1	Acceptable	7900	10420	0.76	Acceptable	No qualifier
	1stS2012	120	120	0.6	Acceptable	8400	6800	1.2	Acceptable	8400	10830	0.78	Acceptable	No qualifier
PC-28	2ndS2011	37	84	39	**Unacceptable**	6800	5400	1.2	Acceptable	6800	8480	0.80	Acceptable	J-CAB
	1stS2012	38	75	5.2	**Unacceptable**	7000	5000	1.4	**Unacceptable**	7000	7809	0.90	Acceptable	J-CAB/J-TDS
PC-54	2ndS2011	75	72	2.1	Acceptable	5700	4700	1.2	Acceptable	5700	6280	0.91	Acceptable	No qualifier
	1stS2012	59	62	2.2	Acceptable	4300	3700	1.2	Acceptable	4300	6395	0.67	Acceptable	No qualifier
PC-67	2ndS2011	150	170	5.2	Acceptable	11000	9700	1.1	Acceptable	11000	16560	0.66	Acceptable	No qualifier
	1stS2012	150	160	2.2	Acceptable	12000	9200	1.3	**Unacceptable**	12000	15710	0.76	Acceptable	J-TDS
POU-3	2ndS2011	120	130	1.8	Acceptable	7900	7400	1.1	Acceptable	7900	12070	0.65	Acceptable	No qualifier
	1stS2012	89	91	1.5	Acceptable	6400	5500	1.2	Acceptable	6400	8674	0.74	Acceptable	No qualifier
TMMW-101	2ndS2011	26	28	3.4	Acceptable	1800	1600	1.1	Acceptable	1800	2540	0.71	Acceptable	No qualifier
	1stS2012	26	28	3.7	Acceptable	2000	1700	1.2	Acceptable	2000	2643	0.76	Acceptable	No qualifier
TMMW-102	2ndS2011	Not sampled		NA	NA	Not sampled		NA	NA	Not sampled		NA	NA	NA
	1stS2012	16	17	3.8	Acceptable	1200	930	1.3	**NA**	1200	1639	0.73	Acceptable	J-TDS
TMMW-103	2ndS2011	Not sampled		NA	NA	Not sampled		NA	NA	Not sampled		NA	NA	NA
	1stS2012	33	34	0.9	Acceptable	2400	2000	1.2	Acceptable	2400	3180	0.75	Acceptable	No qualifier
TMMW-104	2ndS2011	23	24	1.9	Acceptable	1600	1400	1.1	Acceptable	1600	2290	0.70	Acceptable	No qualifier
	1stS2012	30	32	3.1	Acceptable	2400	1900	1.2	Acceptable	2400	2810	0.85	Acceptable	No qualifier
TMPZ-105	2ndS2011	NA	NA	NA	NA	7700	NA	NA	NA	7700	12600	0.61	Acceptable	No qualifier
	1stS2012	100	110	1.1	Acceptable	7900	6400	1.2	Acceptable	7900	11140	0.71	Acceptable	No qualifier
TMPZ-106	2ndS2011	Incomplete dataset		NA	NA	5700	Incomplete dataset		NA	5700	10330	0.55	Acceptable	No qualifier
	1stS2012	Incomplete dataset		NA	NA	5500	Incomplete dataset		NA	5500	8702	0.63	Acceptable	No qualifier
TMPZ-107	2ndS2011	Incomplete dataset		NA	NA	15000	Incomplete dataset		NA	15000	25740	0.58	Acceptable	No qualifier
	1stS2012	230	250	3.2	Acceptable	16000	14000	1.2	Acceptable	16000	23970	0.67	Acceptable	No qualifier
TMPZ-108	2ndS2011	Incomplete dataset		NA	NA	14000	Incomplete dataset		NA	14000	22700	0.62	Acceptable	No qualifier
	1stS2012	Incomplete dataset			NA	14000	Incomplete dataset		NA	14000	19000	0.74	Acceptable	No qualifier
TMPZ-109	2ndS2011	Incomplete dataset		NA	NA	5700	Incomplete dataset		NA	5700	8340	0.68	Acceptable	No qualifier
	1stS2012	Incomplete dataset			NA	6000	Incomplete dataset		NA	6000	7922	0.76	Acceptable	No qualifier
TMPZ-110	2ndS2011	Incomplete dataset		NA	NA	4900	Incomplete dataset		NA	4900	6670	0.73	Acceptable	No qualifier
	1stS2012	84	80	2.2	Acceptable	5800	4900	1.2	Acceptable	5800	8101	0.72	Acceptable	No qualifier

Notes:

CAB	Cation/anio Cation/anion balance	mg/L	Milligram per liter
EC	Electrical cc Electrical conductivity	TDS	Total dissolved solids
meq/L	Milliequivale Milliequivalent per liter	uS/cm	MicroSiemens per centimeter

1 Cations summed include: Calcium, magnesium, sodium, and potassium.
2 Anions summed include: Bicarbonate, carbonate, chloride, fluoride, nitrate-nitrogen, perchlorate, and sulfate.
3 QC criterion for CAB: absolute percent difference less than or equal to 5 percent; when the anion sum is between 10 and 800 meq/L.
4 Ratio of laboratory measured TDS to calculated TDS.
5 QC criterion for TDS measured versus calculated: ratio of TDS measured to TDS calculated greater than or equal to 1.0 and less than or equal to 1.2.
6 QC limits for TDS versus ED ratio is 0.54 to 0.96
7 J-TDS indicates that TDS value for the given well is estimated; J-CAB indicates that the values for the 11 cation/anions are estimated for a given well.
The qualification of results based CAB includes the "J" qualifier with the associated comment code "p" or "q" in the TIMET analytical database

4.0 REFERENCES

American Pubic Health Association. 2005. *Standard Methods for the Examination of Water and Wastewater*. 21st Edition. "Method 1030E – Checking Correctness of Analyses." Washington, D. C.

Desert Research Institute (DRI). 2004. United Database of Wells and Borings Drilled at the BMI Complex.

Hydro-Search, Inc. 1996. Letter Regarding NDEP Letter of Understanding Dated August 16, 1994. From Steve Smith. To Robert C. Kelso, State of Nevada, Department of Environmental Protection. June 7.

Law Engineering. 1993. "Phase I Environmental Conditions Assessment, Titanium Metals Corporation, Henderson, Nevada." April.

State of Nevada, Department of Environmental Protection (NDEP). 1994. "Letter of Understanding." August 16.

NDEP. 2003a. Letter Regarding NDEP Comments to Environmental Conditions Investigation Addendum Report. From Brian Rakvica, Staff Engineer III, and Jeffrey Johnson, Staff Engineer III. To Craig Wilkinson, Manager, Health, Safety, & Environmental Affairs, Titanium Metals Corporation (TIMET). December 1.

NDEP. 2003b. Letter of Recommendations for Accelerated Work to Abate, Mitigate, and Eliminate Environmental Contaminants at TIMET. From Brian Rakvica, Staff Engineer III. To Craig Wilkinson, Manager, Health, Safety, & Environmental Affairs, TIMET. December 11.

NDEP. 2009. Letter regarding "Cation-Anion Balance – Updated Guidance, BMI Plant Sites and Common Areas Projects, Henderson, Nevada." From Brian Rakvica, Staff Engineer III. To Craig Wilkinson, Manager, Health, Safety, & Environmental Affairs, TIMET, et al. September 28.

NDEP. 2010a. Letter regarding "Groundwater Remedial Action Operation and Maintenance Monitoring Sampling and Analysis Plan; dated February 22, 2010 NDEP Facility ID#H-000537" From Brian Rakvica, Supervisor, Special Projects Branch. To Craig Wilkinson, Manager, Health, Safety, & Environmental Affairs, TIMET, et al. March 10, 2010

NDEP. 2010b. Letter transmitting "BMI Plant Site and Common Area Projects, Henderson, Nevada – January 2011 Basic Comparison Levels, Updated Users Guide and Tables" From William Knight, Supervisor, Special Project Branch. To BMI Companies. December 28, 2010.

Tetra Tech EM Inc. (Tetra Tech). 1998a. "Final Environmental Conditions Investigation Report, TIMET, Henderson, Nevada." October 15.

Tetra Tech. 1998b. "Environmental Conditions Investigation Workplan, TIMET, Henderson, Nevada." October 15.

Tetra Tech. 1999. "Environmental Conditions Investigation Addendum, Draft Report, TIMET, Henderson, Nevada." September 24.

Tetra Tech. 2004a. "Quarterly Groundwater Monitoring Report – Semiannual Format, March 2000 to December 2003, TIMET, Henderson, Nevada." March 15.

Tetra Tech. 2004b. "Quarterly Groundwater Monitoring Report, 1st Quarter 2004, TIMET, Henderson, Nevada." April 27.

Tetra Tech. 2004c. Letter Regarding Request to Replace Current Groundwater Collection Methodologies with Low-Flow Groundwater Sample Collection. From Victoria Coker, Project Manager. To Brian Rakvica, Staff Engineer III, NDEP. June 21.

Tetra Tech. 2004d. "Semiannual Quarterly Groundwater Monitoring Report – 2nd Quarter 2004, TIMET, Henderson, Nevada." July 30.

Tetra Tech. 2004e. "Quarterly Groundwater Monitoring Report – 3rd Quarter 2004, TIMET, Henderson, Nevada." October 29.

Tetra Tech. 2005a. "Revised Environmental Conditions Investigation Addendum Report, TIMET, Henderson, Nevada." January 24.

Tetra Tech. 2005b. "Semiannual Quarterly Groundwater Monitoring Report – 4th Quarter 2004, TIMET, Henderson, Nevada." January 31, 2005.

Tetra Tech. 2005c. "Quarterly Groundwater Monitoring Report – 1st Quarter 2005, TIMET, Henderson, Nevada." April 30.

Tetra Tech. 2005d. "Semiannual Quarterly Groundwater Monitoring Report – 2nd Quarter 2005, TIMET, Henderson, Nevada." July 29, 2005.

Tetra Tech. 2005e. "Quarterly Groundwater Monitoring Report – 3rd Quarter 2005, TIMET, Henderson, Nevada." October 28, 2005.

Tetra Tech. 2006a. "Semiannual Quarterly Groundwater Monitoring Report – 4th Quarter 2005, TIMET, Henderson, Nevada." January 31, 2006.

Tetra Tech. 2006b. "Quarterly Groundwater Monitoring Report – 1st Quarter2006, TIMET, Henderson, Nevada." April 28, 2006.

Tetra Tech. 2006c. "Semiannual Quarterly Groundwater Monitoring Report – 2nd Quarter 2006, TIMET, Henderson, Nevada." July 31, 2006.

Tetra Tech. 2006d. "Quarterly Groundwater Monitoring Report – 3rd Quarter 2006, TIMET, Henderson, Nevada." October 30, 2006.

Tetra Tech. 2007a. "Semiannual Quarterly Groundwater Monitoring Report – 4th Quarter 2006, TIMET, Henderson, Nevada." January 31, 2007.

Tetra Tech. 2007b. "Quarterly Groundwater Monitoring Report – 1st Quarter 2007, TIMET, Henderson, Nevada." April 30, 2007.

Tetra Tech. 2007c. "Semiannual Quarterly Groundwater Monitoring Report – 3rd Quarter 2007, TIMET, Henderson, Nevada." July 31, 2007.

Titanium Metals Corporation (TIMET). 2004. Letter Regarding NDEP Letter of Recommendations for Accelerated Work Dated December 11, 2003. From Craig Wilkinson, Manager of Health, Safety, and Environment. To Brian Rakvica, Staff Engineer III, NDEP. January 5.

TIMET. 2007. "Generic Site-Wide Sampling and Analysis Plan, TIMET, Henderson, Nevada." Revision 02. October 29.

TIMET. 2008a. "Semiannual Groundwater Monitoring Report—1st Semester 2008, TIMET Henderson, Nevada." April 30.

TIMET. 2008b. "Semiannual Groundwater Monitoring Report—2nd Semester 2008, TIMET Henderson, Nevada." October 31.

TIMET. 2009. "Semiannual Groundwater Monitoring Report—1st Semester 2009, TIMET Henderson, Nevada." June 1.

TIMET. 2010a. "Groundwater Remedial Action Operation and Maintenance Monitoring Sampling and Analysis Plan, TIMET, Henderson, Nevada" February 2010

TIMET. 2010b. "Semiannual Groundwater Monitoring Report-2nd Semester 2009, TIMET Henderson, Nevada." January 8.

TIMET. 2010c. "Semiannual Groundwater Monitoring Report-1st Semester 2010, TIMET Henderson, Nevada." September 30.

TIMET. 2011. "Semiannual Groundwater Monitoring Report-2nd Semester 2010, TIMET Henderson, Nevada." March 31.

TIMET. 2011. "Semiannual Groundwater Monitoring Report-1st Semester 2011, TIMET Henderson, Nevada." September 30.

TIMET. 2012a. "2nd Semester, 2011 Data Validation Summary Report, TIMET Henderson, Nevada." February 23.

TIMET. 2012b. "1st Semester, 2012 Data Validation Summary Report, TIMET Henderson, Nevada." August 7.

U.S. Environmental Protection Agency. 2003. "List of Contaminants & Their MCLs." EPA 816-F-03-016. June. Available Online at: http://www.epa.gov/safewater/mcl.html.

APPENDIX A

RESPONSE TO COMMENTS

(Reserved for Future Use)

(RESERVED FOR FUTURE USE)

APPENDIX B

WELL HYDROGRAPHS

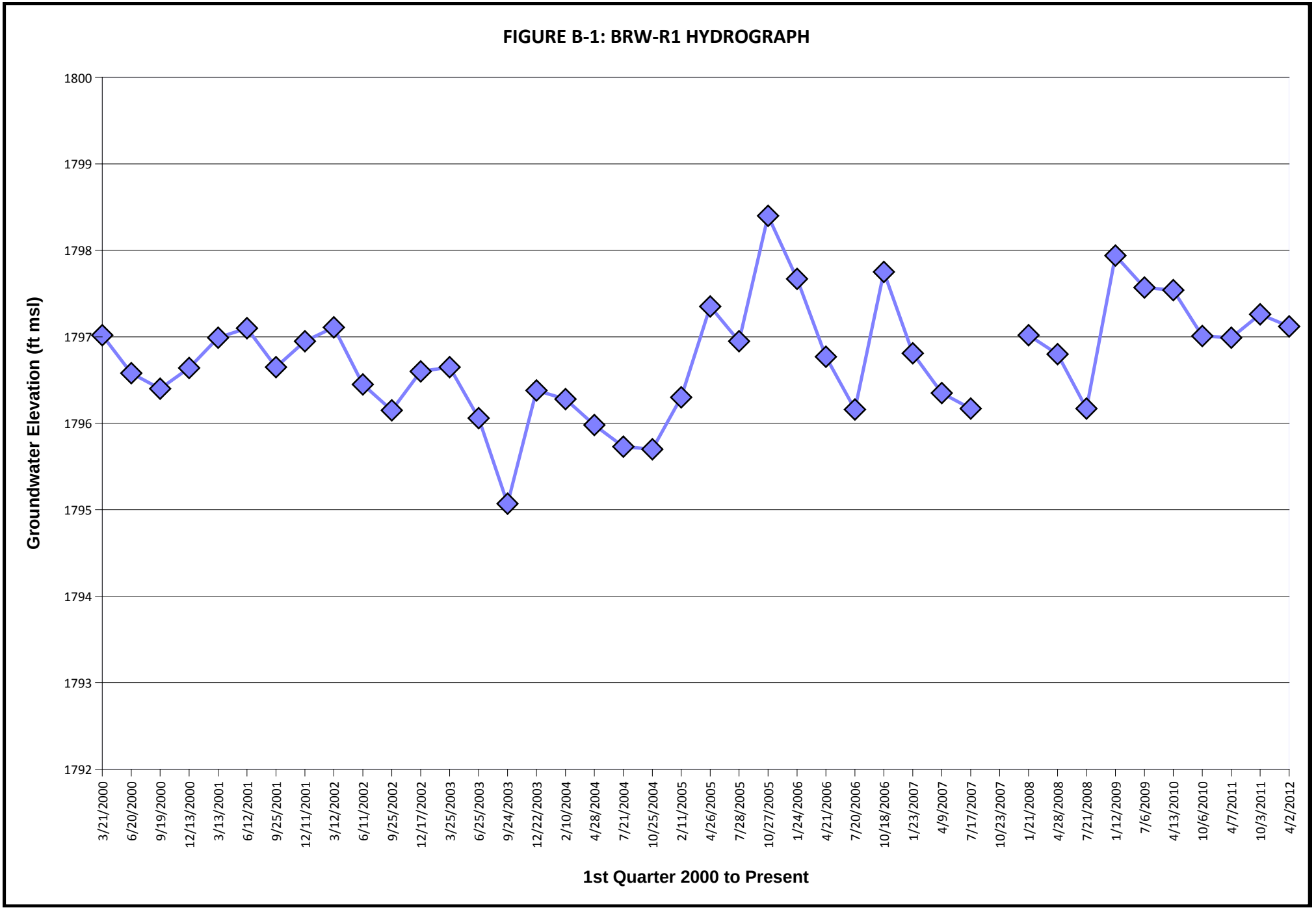
FIGURE B-1: BRW-R1 HYDROGRAPH
Groundwater Elevation (ft msl)
1800
1799
1798
1797
1796
1795
1794
1793
1792
3/21/2000
6/20/2000
9/19/2000
12/13/2000
3/13/2001
6/12/2001
9/25/2001
12/11/2001
3/12/2002
6/11/2002
9/25/2002
12/17/2002
3/25/2003
6/25/2003
9/24/2003
12/22/2003
2/10/2004
4/28/2004
7/21/2004
10/25/2004
2/11/2005
4/26/2005
7/28/2005
10/27/2005
1/24/2006
4/21/2006
7/20/2006
10/18/2006
1/23/2007
4/9/2007
7/17/2007
10/23/2007
1/21/2008
4/28/2008
7/21/2008
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4/2/2012
1st Quarter 2000 to Present

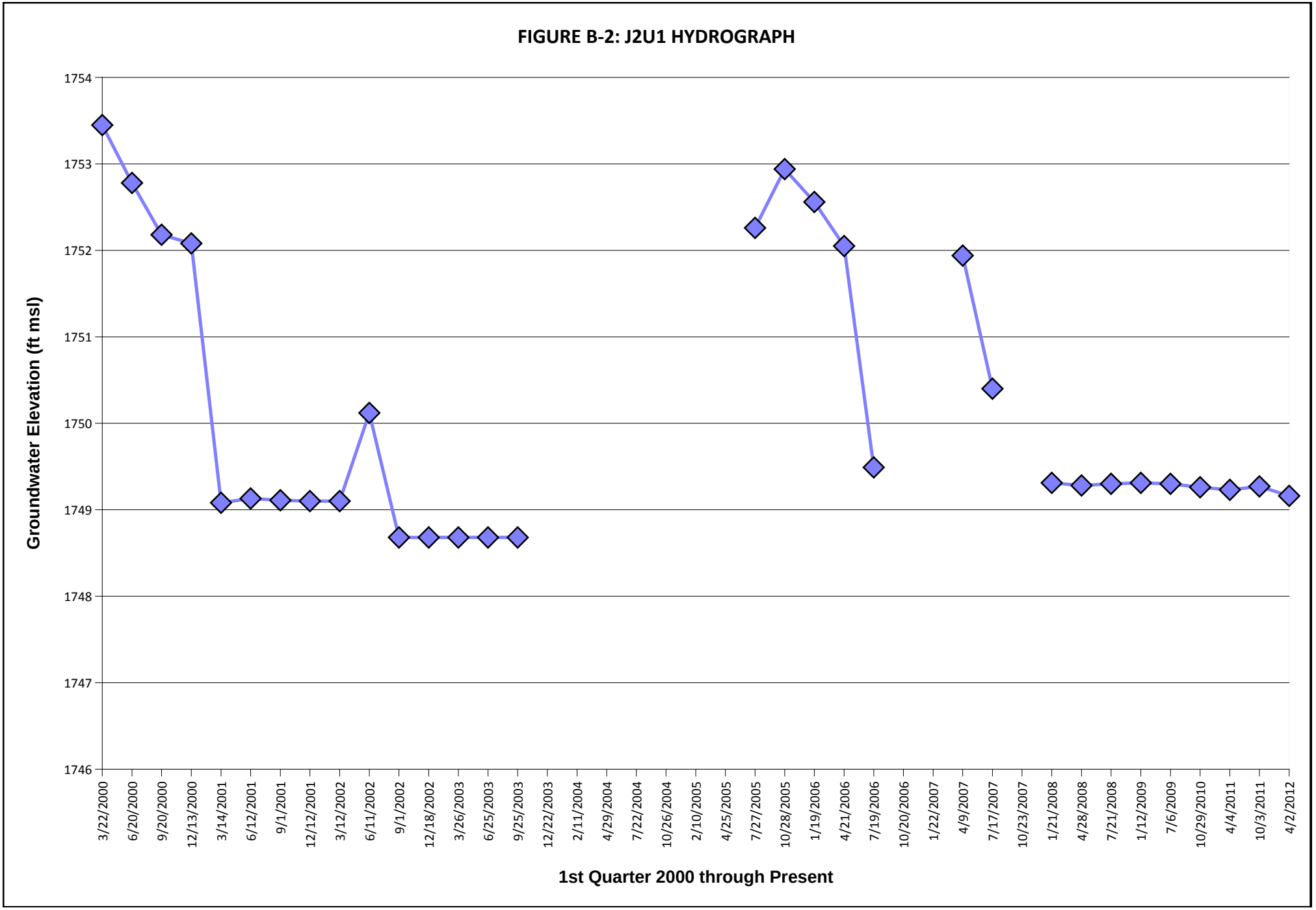


FIGURE B-2: J2U1 HYDROGRAPH
Groundwater Elevation (ft msl)
1754
1753
1752
1751
1750
1749
1748
1747
1746
3/22/2000
6/20/2000
9/20/2000
12/13/2000
3/14/2001
6/12/2001
9/1/2001
12/12/2001
3/12/2002
6/11/2002
9/1/2002
12/18/2002
3/26/2003
6/25/2003
9/25/2003
12/22/2003
2/11/2004
4/29/2004
7/22/2004
10/26/2004
2/10/2005
4/25/2005
7/27/2005
10/28/2005
1/19/2006
4/21/2006
7/19/2006
10/20/2006
1/22/2007
4/9/2007
7/17/2007
10/23/2007
1/21/2008
4/28/2008
7/21/2008
1/12/2009
7/6/2009
10/29/2010
4/4/2011
10/3/2011
4/2/2012
1st Quarter 2000 through Present

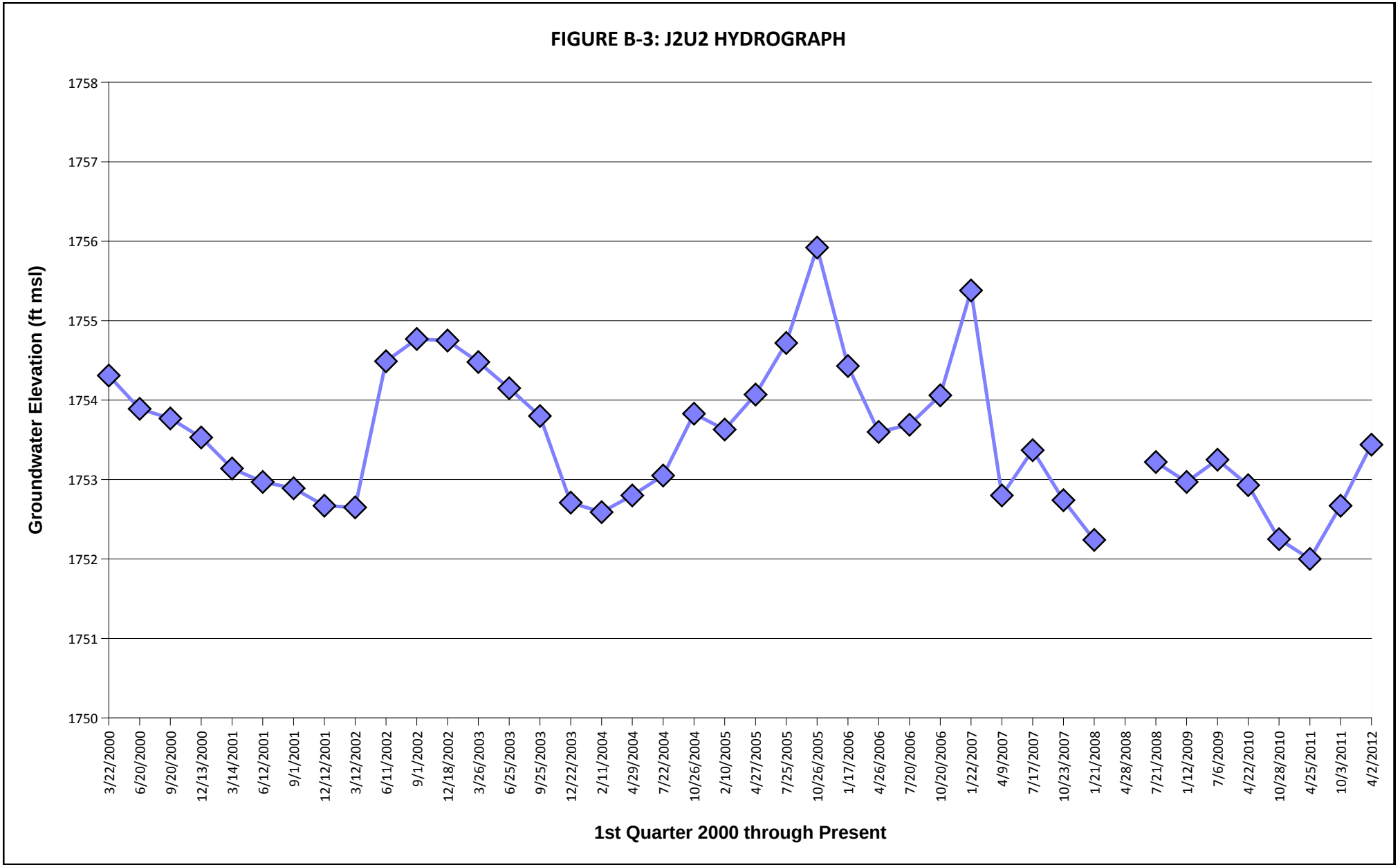


FIGURE B-3: J2U2 HYDROGRAPH
Groundwater Elevation (ft msl)
1758
1757
1756
1755
1754
1753
1752
1751
1750
3/22/2000
6/20/2000
9/20/2000
12/13/2000
3/14/2001
6/12/2001
9/1/2001
12/12/2001
3/12/2002
6/11/2002
9/1/2002
12/18/2002
3/26/2003
6/25/2003
9/25/2003
12/22/2003
2/11/2004
4/29/2004
7/22/2004
10/26/2004
2/10/2005
4/27/2005
7/25/2005
10/26/2005
1/17/2006
4/26/2006
7/20/2006
10/20/2006
1/22/2007
4/9/2007
7/17/2007
10/23/2007
1/21/2008
4/28/2008
7/21/2008
1/12/2009
7/6/2009
4/22/2010
10/28/2010
4/25/2011
10/3/2011
4/2/2012
1st Quarter 2000 through Present

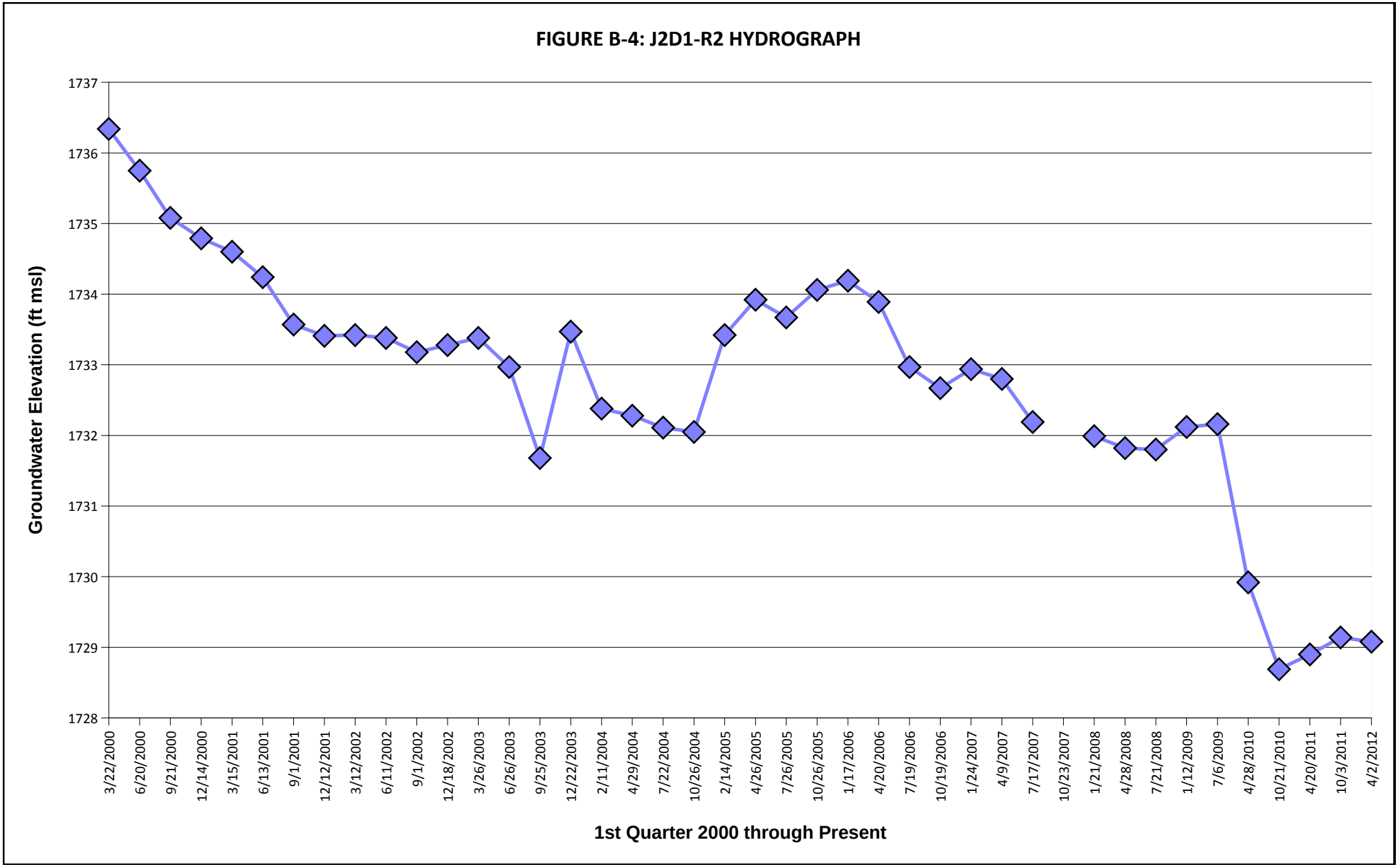


FIGURE B-4: J2D1-R2 HYDROGRAPH
Groundwater Elevation (ft msl)
1737
1736
1735
1734
1733
1732
1731
1730
1729
1728
3/22/2000
6/20/2000
9/21/2000
12/14/2000
3/15/2001
6/13/2001
9/1/2001
12/12/2001
3/12/2002
6/11/2002
9/1/2002
12/18/2002
3/26/2003
6/26/2003
9/25/2003
12/22/2003
2/11/2004
4/29/2004
7/22/2004
10/26/2004
2/14/2005
4/26/2005
7/26/2005
10/26/2005
1/17/2006
4/20/2006
7/19/2006
10/19/2006
1/24/2007
4/9/2007
7/17/2007
10/23/2007
1/21/2008
4/28/2008
7/21/2008
1/12/2009
7/6/2009
4/28/2010
10/21/2010
4/20/2011
10/3/2011
4/2/2012
1st Quarter 2000 through Present

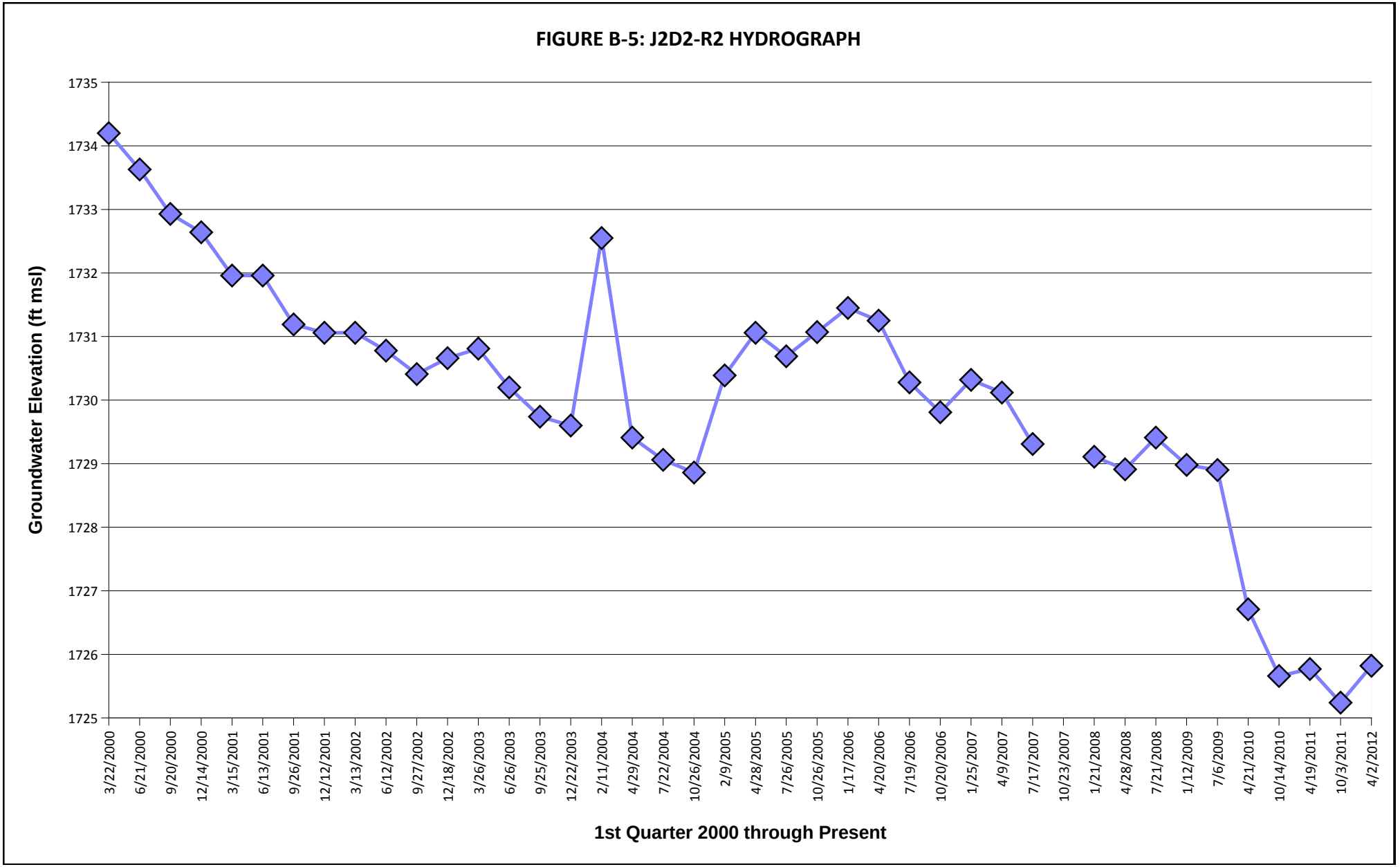


FIGURE B-5: J2D2-R2 HYDROGRAPH
Groundwater Elevation (ft msl)
1735
1734
1733
1732
1731
1730
1729
1728
1727
1726
1725
3/22/2000
6/21/2000
9/20/2000
12/14/2000
3/15/2001
6/13/2001
9/26/2001
12/12/2001
3/13/2002
6/12/2002
9/27/2002
12/18/2002
3/26/2003
6/26/2003
9/25/2003
12/22/2003
2/11/2004
4/29/2004
7/22/2004
10/26/2004
2/9/2005
4/28/2005
7/26/2005
10/26/2005
1/17/2006
4/20/2006
7/19/2006
10/20/2006
1/25/2007
4/9/2007
7/17/2007
10/23/2007
1/21/2008
4/28/2008
7/21/2008
1/12/2009
7/6/2009
4/21/2010
10/14/2010
4/19/2011
10/3/2011
4/2/2012
1st Quarter 2000 through Present

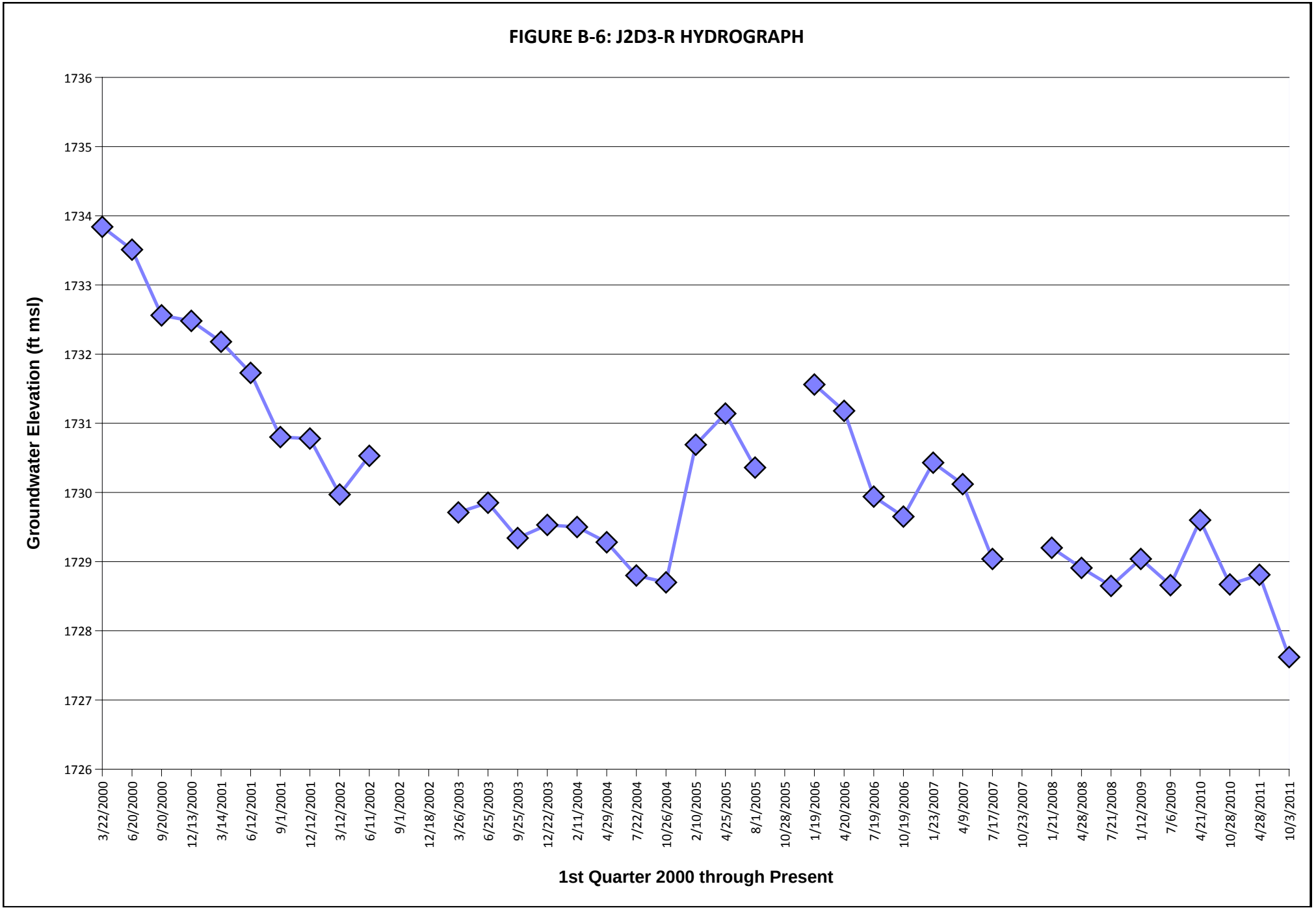


FIGURE B-6: J2D3-R HYDROGRAPH
Groundwater Elevation (ft msl)
1736
1735
1734
1733
1732
1731
1730
1729
1728
1727
1726
3/22/2000
6/20/2000
9/20/2000
12/13/2000
3/14/2001
6/12/2001
9/1/2001
12/12/2001
3/12/2002
6/11/2002
9/1/2002
12/18/2002
3/26/2003
6/25/2003
9/25/2003
12/22/2003
2/11/2004
4/29/2004
7/22/2004
10/26/2004
2/10/2005
4/25/2005
8/1/2005
10/28/2005
1/19/2006
4/20/2006
7/19/2006
10/19/2006
1/23/2007
4/9/2007
7/17/2007
10/23/2007
1/21/2008
4/28/2008
7/21/2008
1/12/2009
7/6/2009
4/21/2010
10/28/2010
4/28/2011
10/3/2011
1st Quarter 2000 through Present

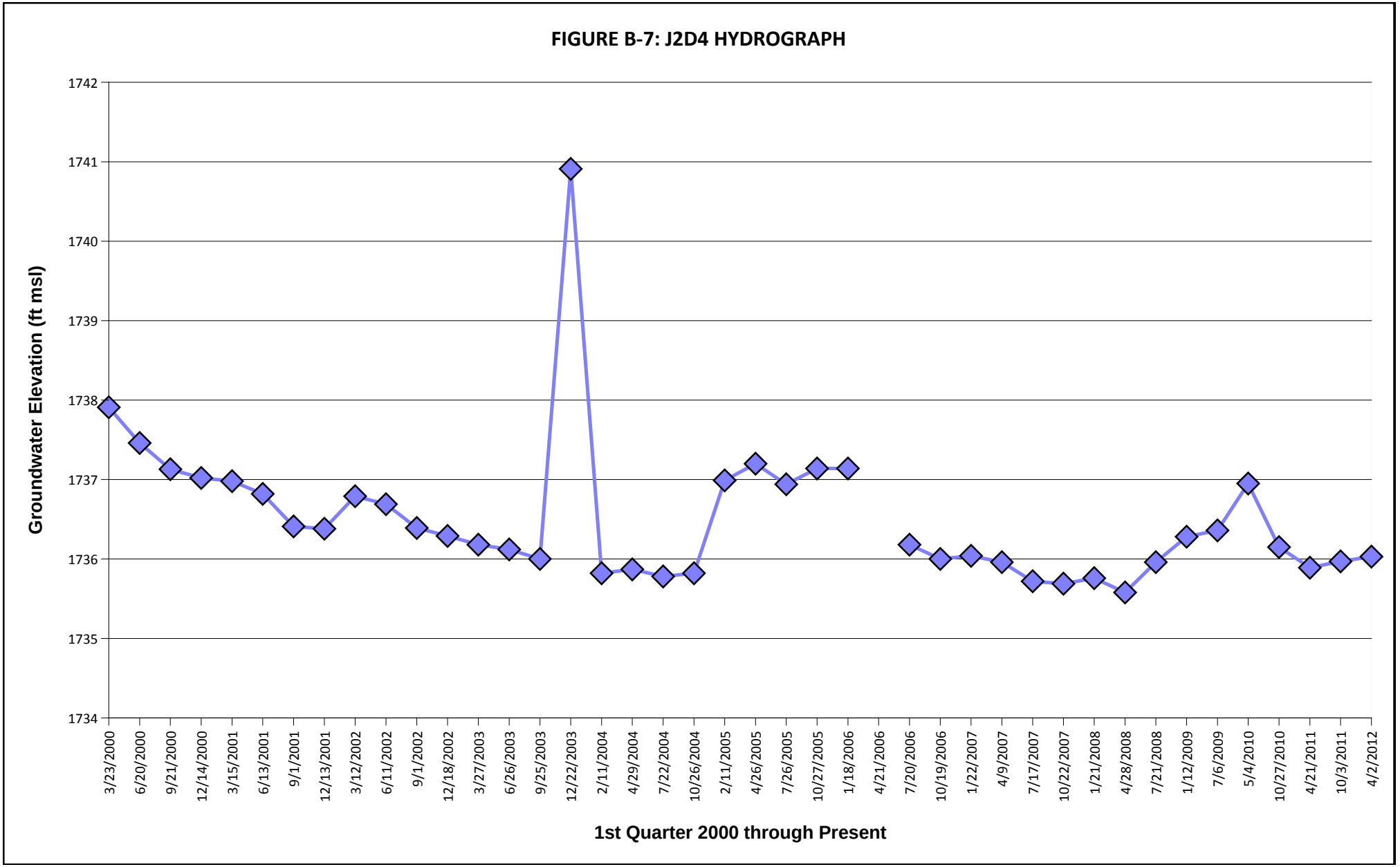


FIGURE B-7: J2D4 HYDROGRAPH
Groundwater Elevation (ft msl)
1742
1741
1740
1739
1738
1737
1736
1735
1734
3/23/2000
6/20/2000
9/21/2000
12/14/2000
3/15/2001
6/13/2001
9/1/2001
12/13/2001
3/12/2002
6/11/2002
9/1/2002
12/18/2002
3/27/2003
6/26/2003
9/25/2003
12/22/2003
2/11/2004
4/29/2004
7/22/2004
10/26/2004
2/11/2005
4/26/2005
7/26/2005
10/27/2005
1/18/2006
4/21/2006
7/20/2006
10/19/2006
1/22/2007
4/9/2007
7/17/2007
10/22/2007
1/21/2008
4/28/2008
7/21/2008
1/12/2009
7/6/2009
5/4/2010
10/27/2010
4/21/2011
10/3/2011
4/2/2012
1st Quarter 2000 through Present

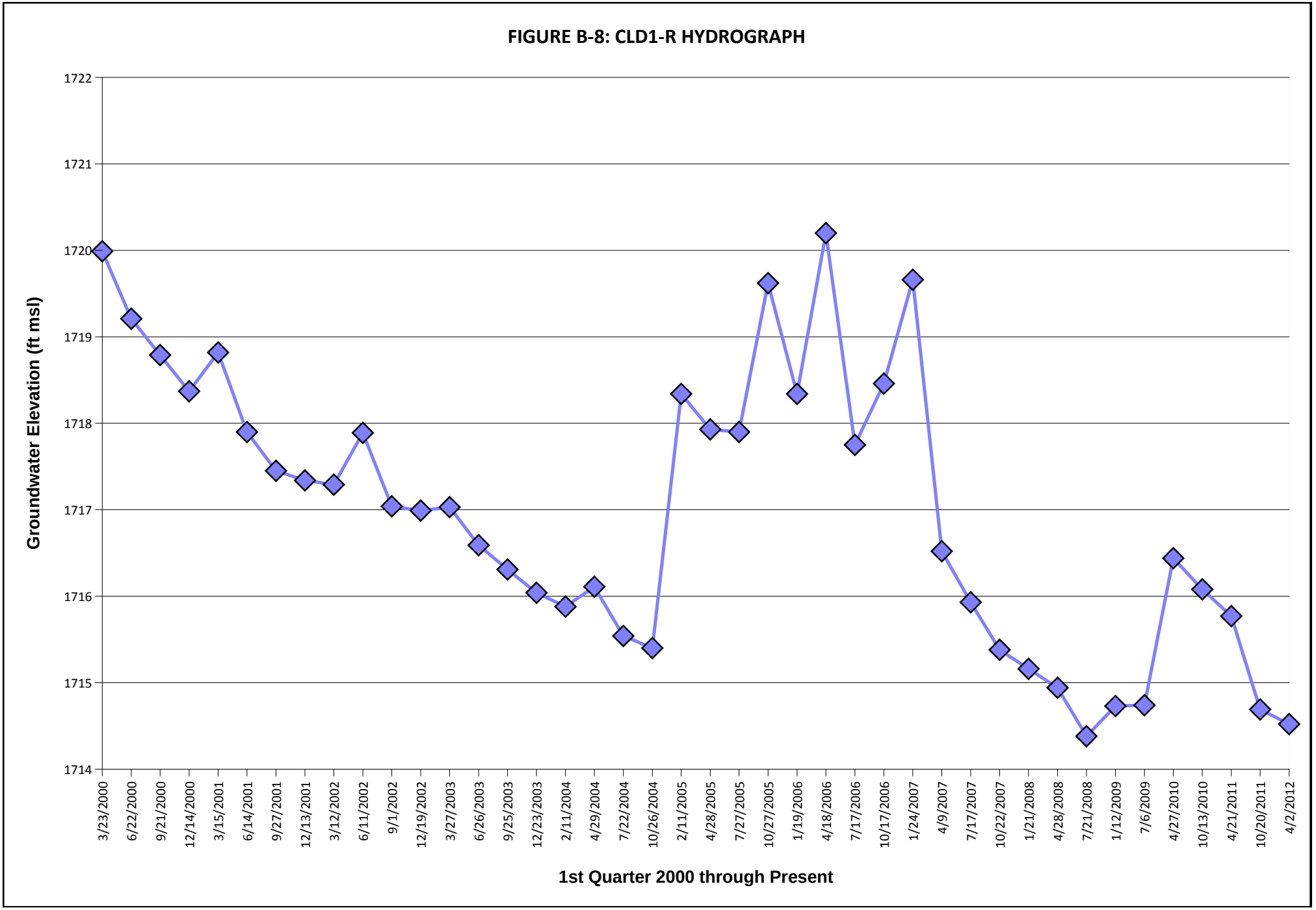


FIGURE B-8: CLD1-R HYDROGRAPH
Groundwater Elevation (ft msl)
1722
1721
1720
1719
1718
1717
1716
1715
1714
3/23/2000
6/22/2000
9/21/2000
12/14/2000
3/15/2001
6/14/2001
9/27/2001
12/13/2001
3/12/2002
6/11/2002
9/1/2002
12/19/2002
3/27/2003
6/26/2003
9/25/2003
12/23/2003
2/11/2004
4/29/2004
7/22/2004
10/26/2004
2/11/2005
4/28/2005
7/27/2005
10/27/2005
1/19/2006
4/18/2006
7/17/2006
10/17/2006
1/24/2007
4/9/2007
7/17/2007
10/22/2007
1/21/2008
4/28/2008
7/21/2008
1/12/2009
7/6/2009
4/27/2010
10/13/2010
4/21/2011
10/20/2011
4/2/2012
1st Quarter 2000 through Present

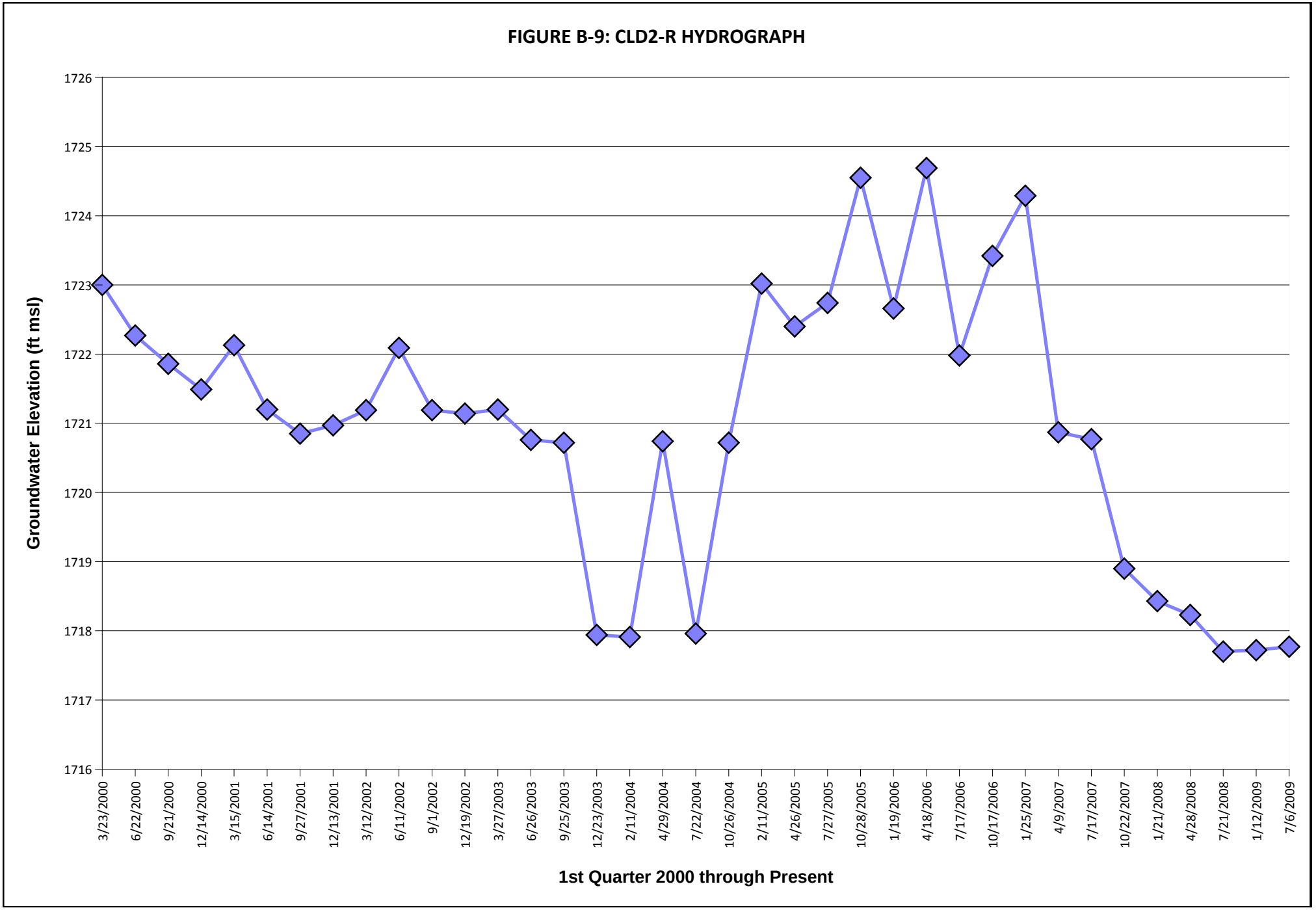


FIGURE B-9: CLD2-R HYDROGRAPH
Groundwater Elevation (ft msl)
1726
1725
1724
1723
1722
1721
1720
1719
1718
1717
1716
3/23/2000
6/22/2000
9/21/2000
12/14/2000
3/15/2001
6/14/2001
9/27/2001
12/13/2001
3/12/2002
6/11/2002
9/1/2002
12/19/2002
3/27/2003
6/26/2003
9/25/2003
12/23/2003
2/11/2004
4/29/2004
7/22/2004
10/26/2004
2/11/2005
4/26/2005
7/27/2005
10/28/2005
1/19/2006
4/18/2006
7/17/2006
10/17/2006
1/25/2007
4/9/2007
7/17/2007
10/22/2007
1/21/2008
4/28/2008
7/21/2008
1/12/2009
7/6/2009
1st Quarter 2000 through Present

FIGURE B-10: CLD3-R HYDROGRAPH

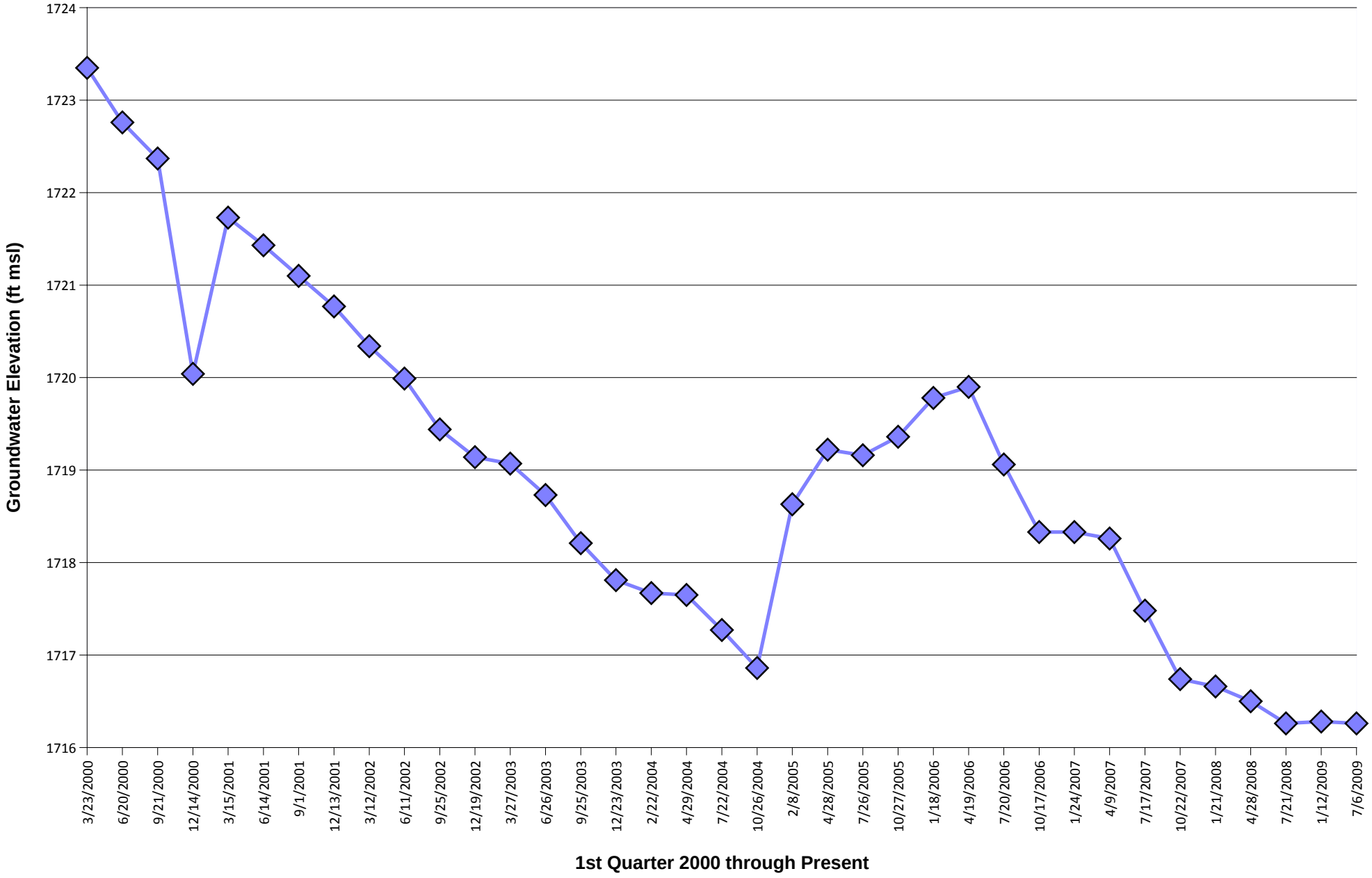


FIGURE B-11: CLD4-R HYDROGRAPH

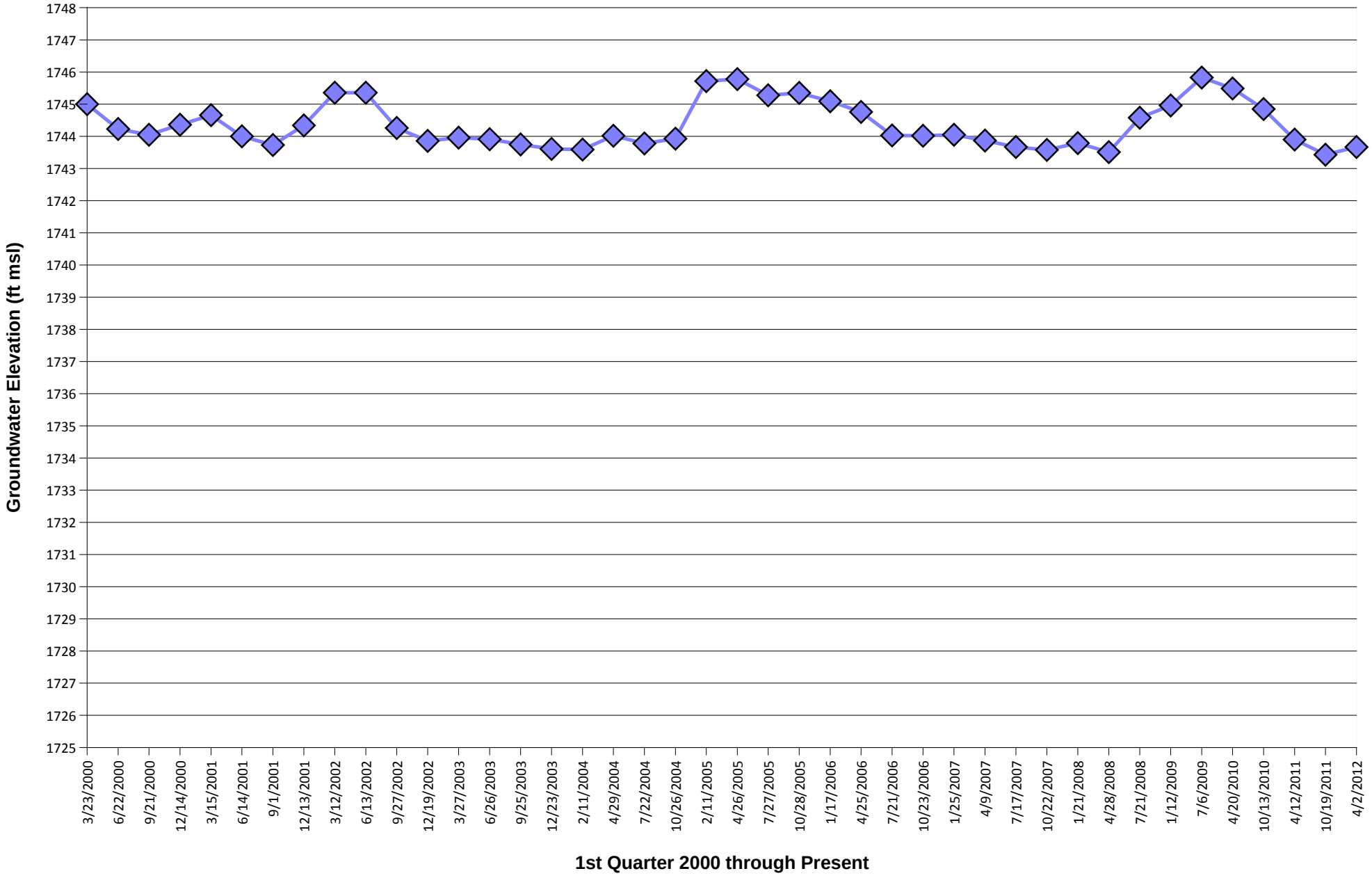


FIGURE B-12: TIMETMW-3R HYDROGRAPH

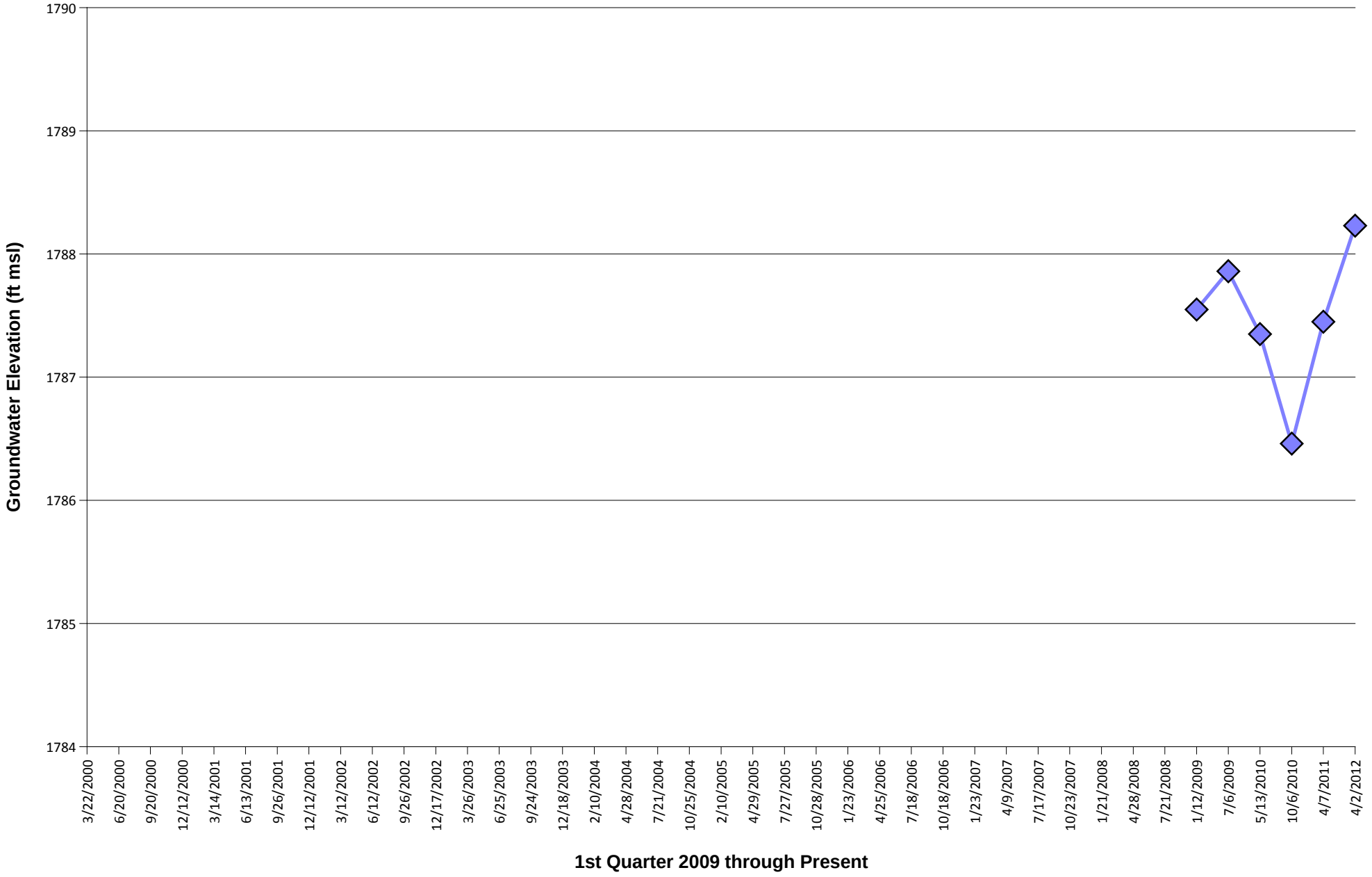
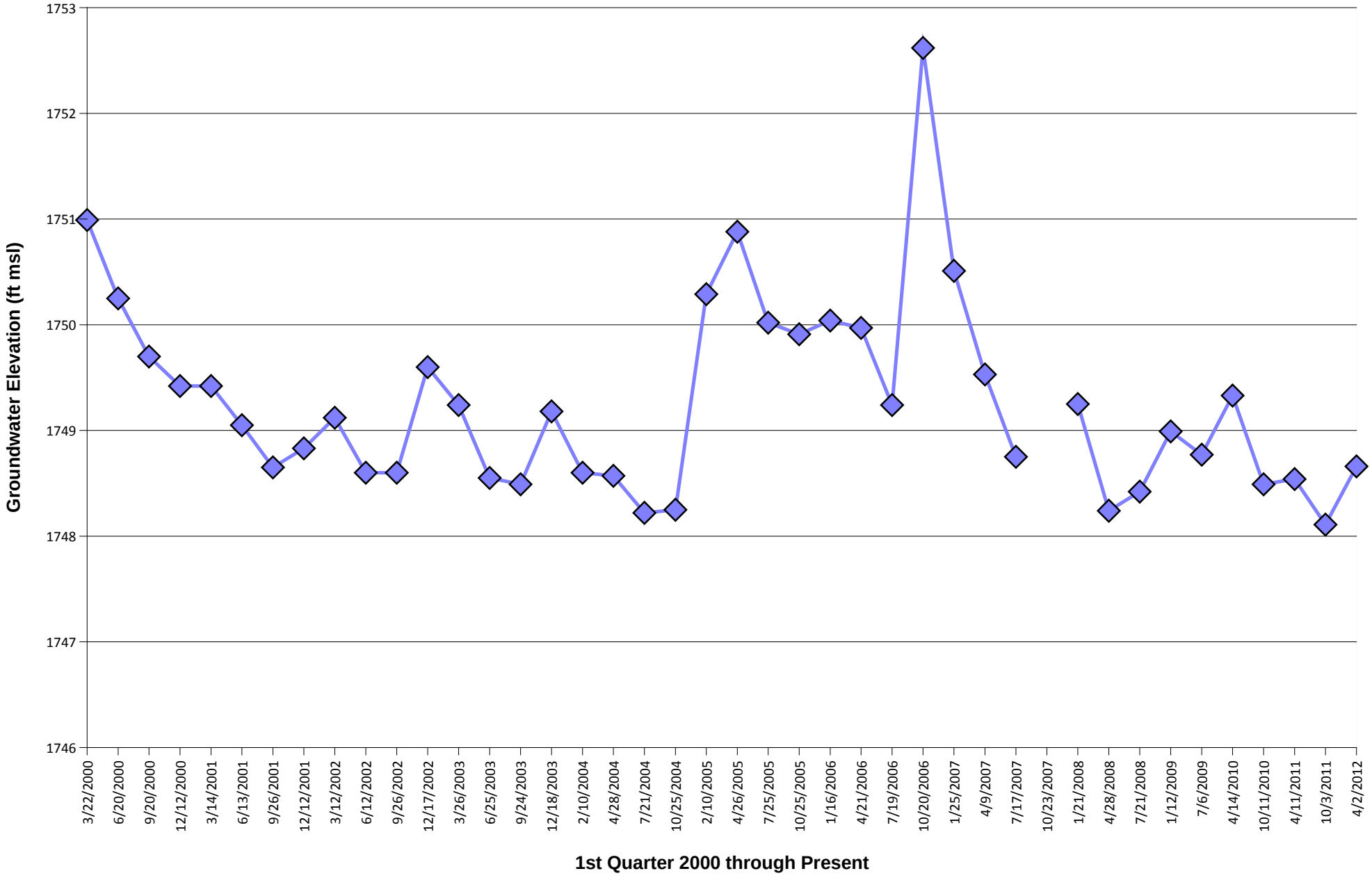


FIGURE B-13: TIMETMW-4 HYDROGRAPH



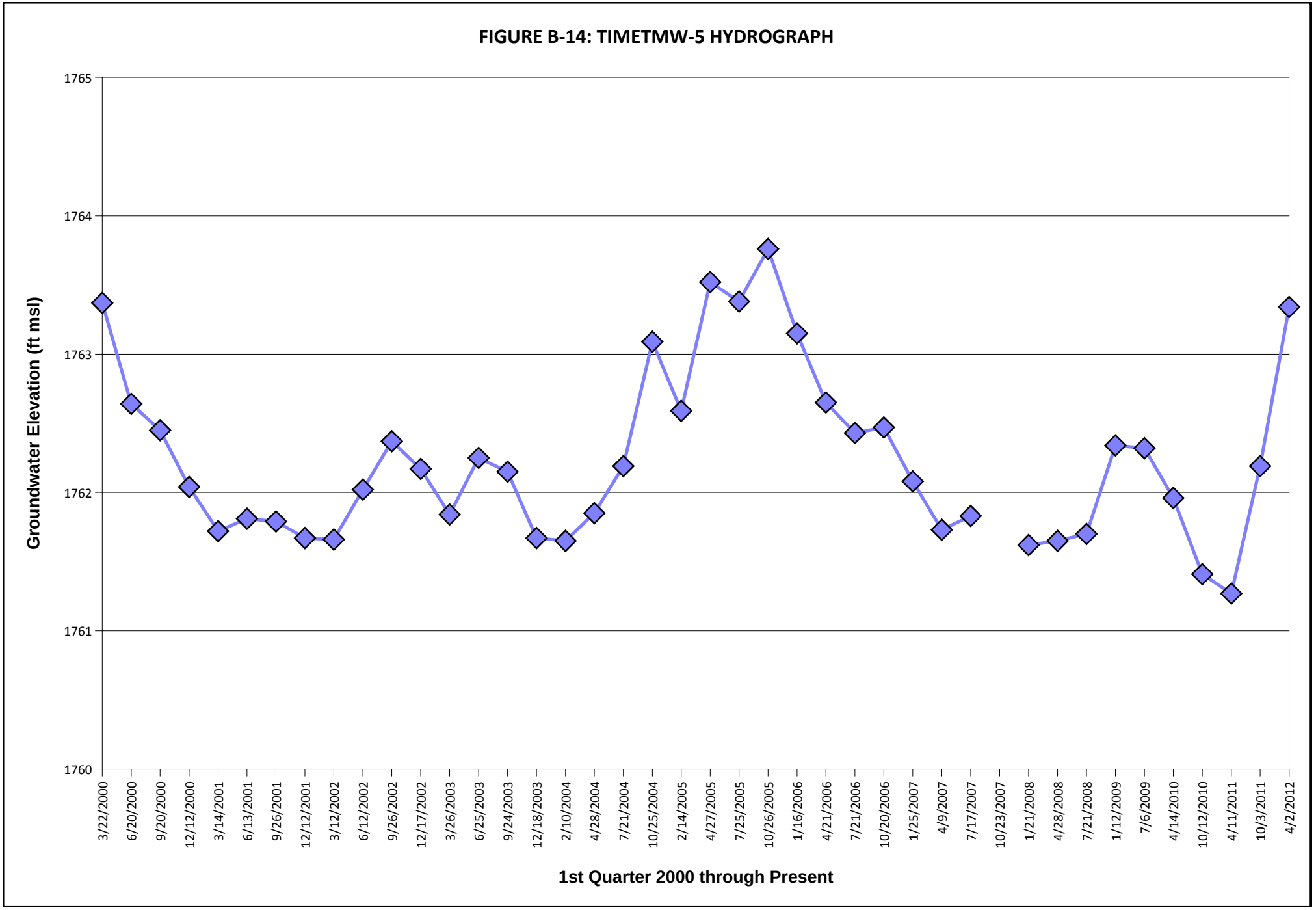


FIGURE B-14: TIMETMW-5 HYDROGRAPH
Groundwater Elevation (ft msl)
1765
1764
1763
1762
1761
1760
3/22/2000
6/20/2000
9/20/2000
12/12/2000
3/14/2001
6/13/2001
9/26/2001
12/12/2001
3/12/2002
6/12/2002
9/26/2002
12/17/2002
3/26/2003
6/25/2003
9/24/2003
12/18/2003
2/10/2004
4/28/2004
7/21/2004
10/25/2004
2/14/2005
4/27/2005
7/25/2005
10/26/2005
1/16/2006
4/21/2006
7/21/2006
10/20/2006
1/25/2007
4/9/2007
7/17/2007
10/23/2007
1/21/2008
4/28/2008
7/21/2008
1/12/2009
7/6/2009
4/14/2010
10/12/2010
4/11/2011
10/3/2011
4/2/2012
1st Quarter 2000 through Present

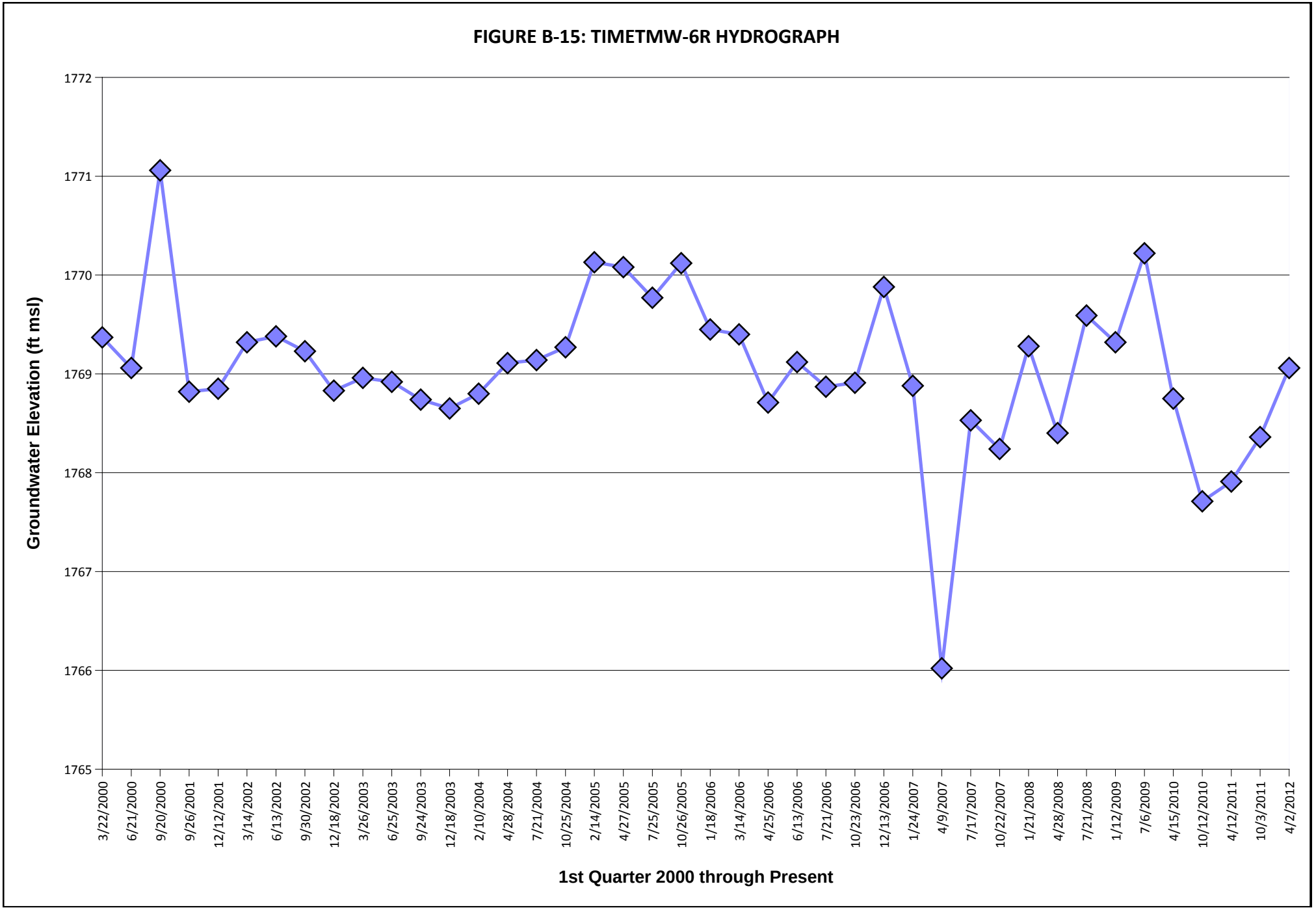


FIGURE B-15: TIMETMW-6R HYDROGRAPH
Groundwater Elevation (ft msl)
1772
1771
1770
1769
1768
1767
1766
1765
3/22/2000
6/21/2000
9/20/2000
9/26/2001
12/12/2001
3/14/2002
6/13/2002
9/30/2002
12/18/2002
3/26/2003
6/25/2003
9/24/2003
12/18/2003
2/10/2004
4/28/2004
7/21/2004
10/25/2004
2/14/2005
4/27/2005
7/25/2005
10/26/2005
1/18/2006
3/14/2006
4/25/2006
6/13/2006
7/21/2006
10/23/2006
12/13/2006
1/24/2007
4/9/2007
7/17/2007
10/22/2007
1/21/2008
4/28/2008
7/21/2008
1/12/2009
7/6/2009
4/15/2010
10/12/2010
4/12/2011
10/3/2011
4/2/2012
1st Quarter 2000 through Present

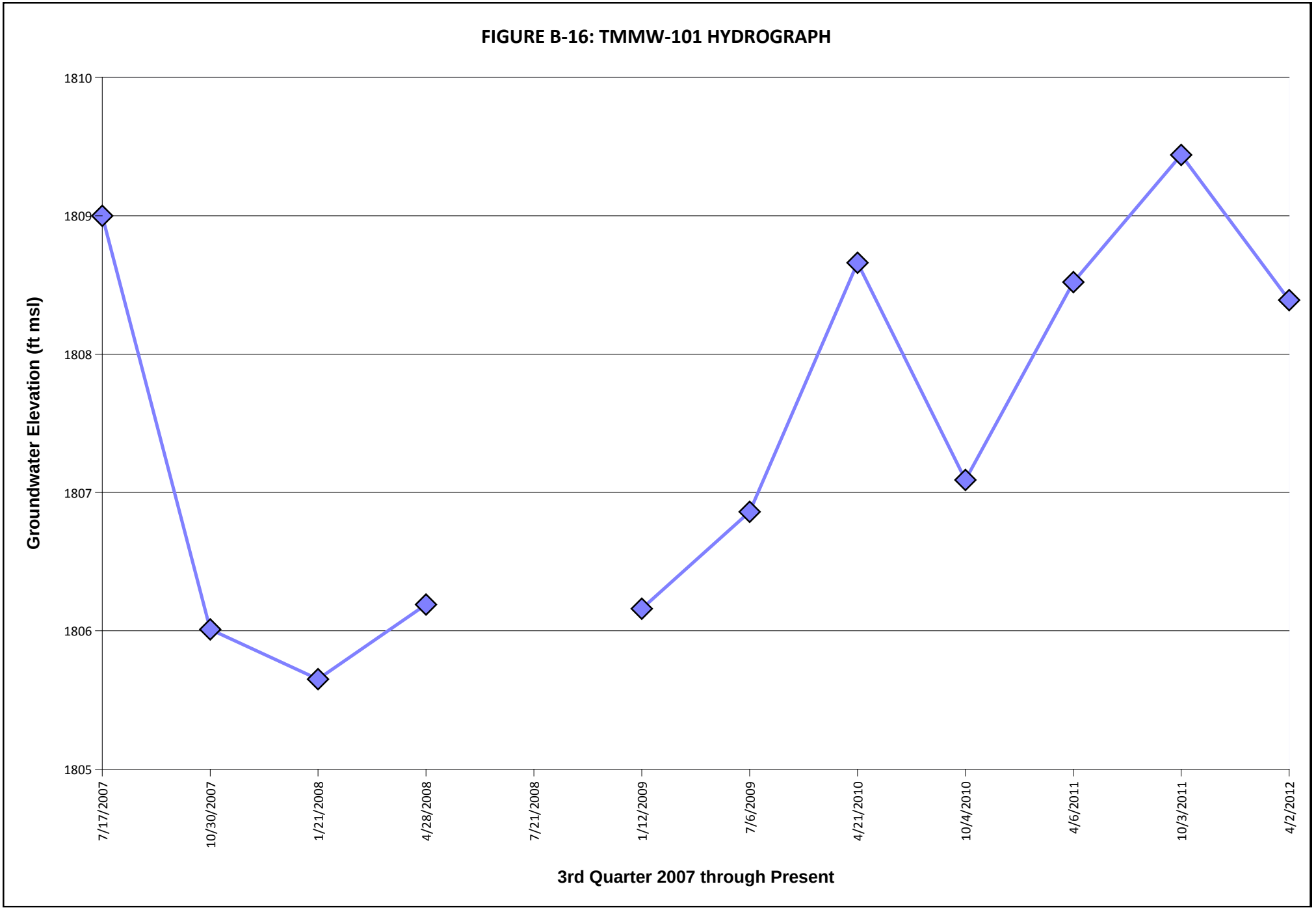


FIGURE B-16: TMMW-101 HYDROGRAPH
Groundwater Elevation (ft msl)
1810
1809
1808
1807
1806
1805
7/17/2007
10/30/2007
1/21/2008
4/28/2008
7/21/2008
1/12/2009
7/6/2009
4/21/2010
10/4/2010
4/6/2011
10/3/2011
4/2/2012
3rd Quarter 2007 through Present

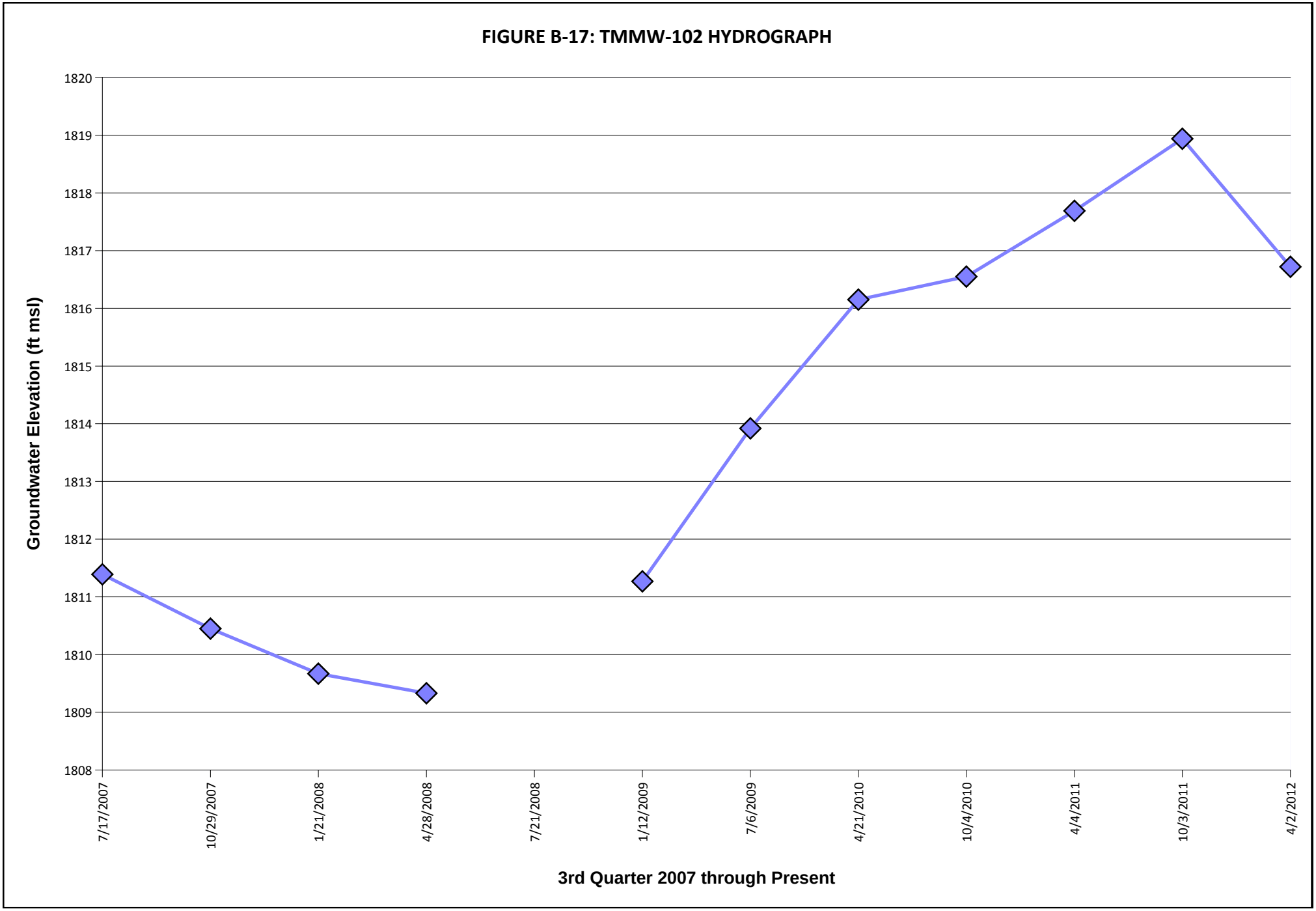


FIGURE B-17: TMMW-102 HYDROGRAPH
Groundwater Elevation (ft msl)
1820
1819
1818
1817
1816
1815
1814
1813
1812
1811
1810
1809
1808
7/17/2007
10/29/2007
1/21/2008
4/28/2008
7/21/2008
1/12/2009
7/6/2009
4/21/2010
10/4/2010
4/4/2011
10/3/2011
4/2/2012
3rd Quarter 2007 through Present

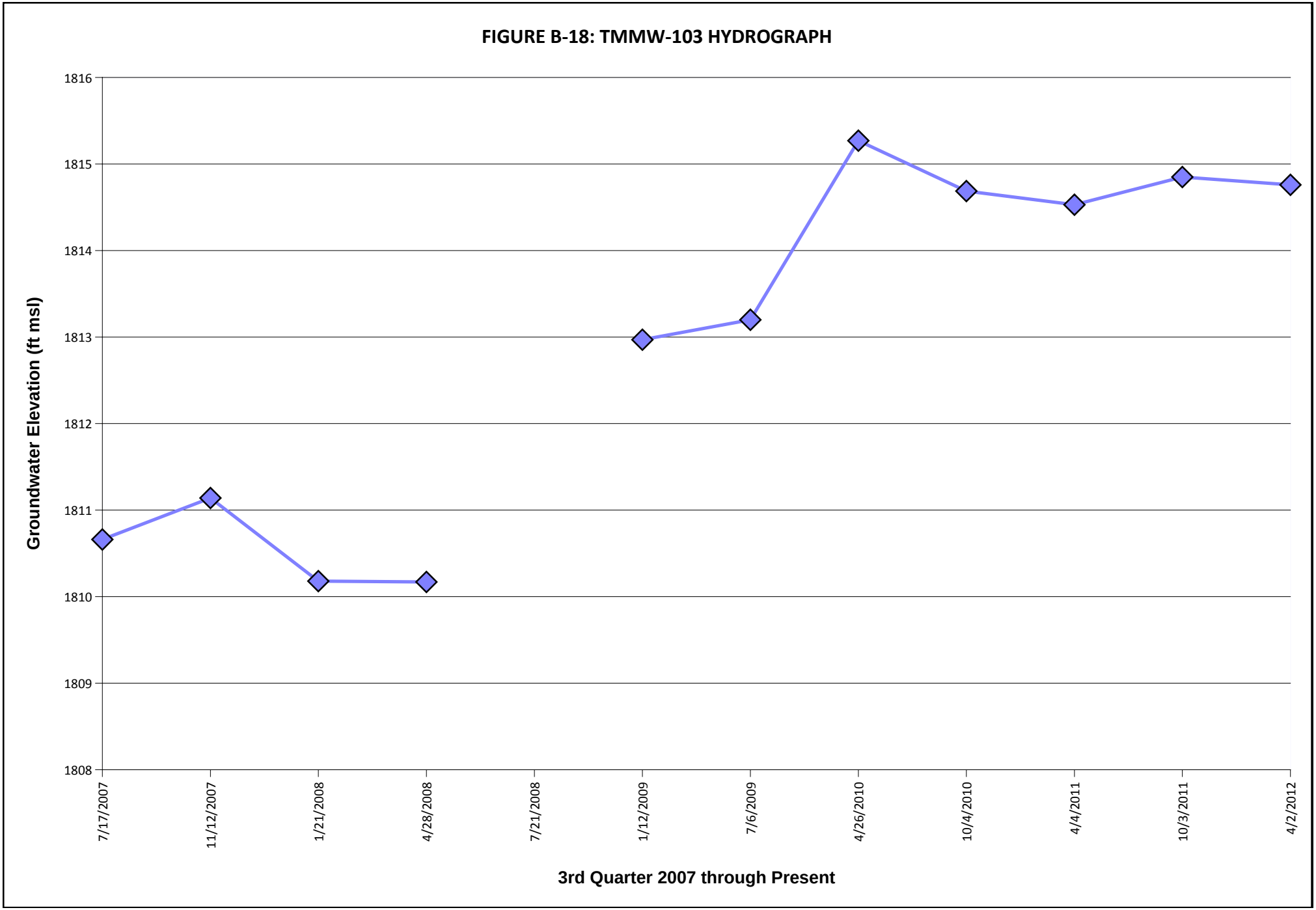


FIGURE B-18: TMMW-103 HYDROGRAPH
Groundwater Elevation (ft msl)
1816
1815
1814
1813
1812
1811
1810
1809
1808
7/17/2007
11/12/2007
1/21/2008
4/28/2008
7/21/2008
1/12/2009
7/6/2009
4/26/2010
10/4/2010
4/4/2011
10/3/2011
4/2/2012
3rd Quarter 2007 through Present

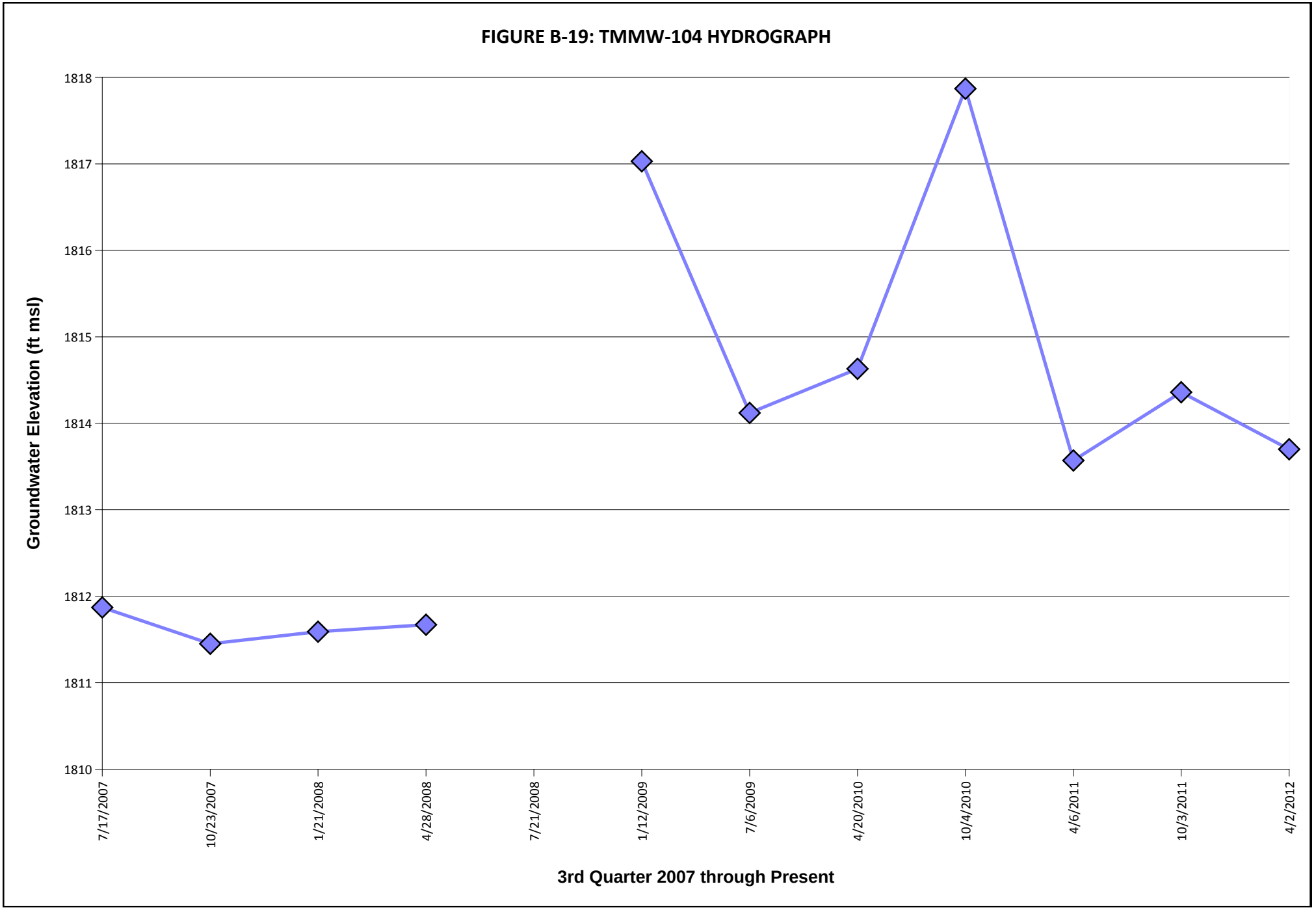


FIGURE B-19: TMMW-104 HYDROGRAPH
Groundwater Elevation (ft msl)
1818
1817
1816
1815
1814
1813
1812
1811
1810
7/17/2007
10/23/2007
1/21/2008
4/28/2008
7/21/2008
1/12/2009
7/6/2009
4/20/2010
10/4/2010
4/6/2011
10/3/2011
4/2/2012
3rd Quarter 2007 through Present

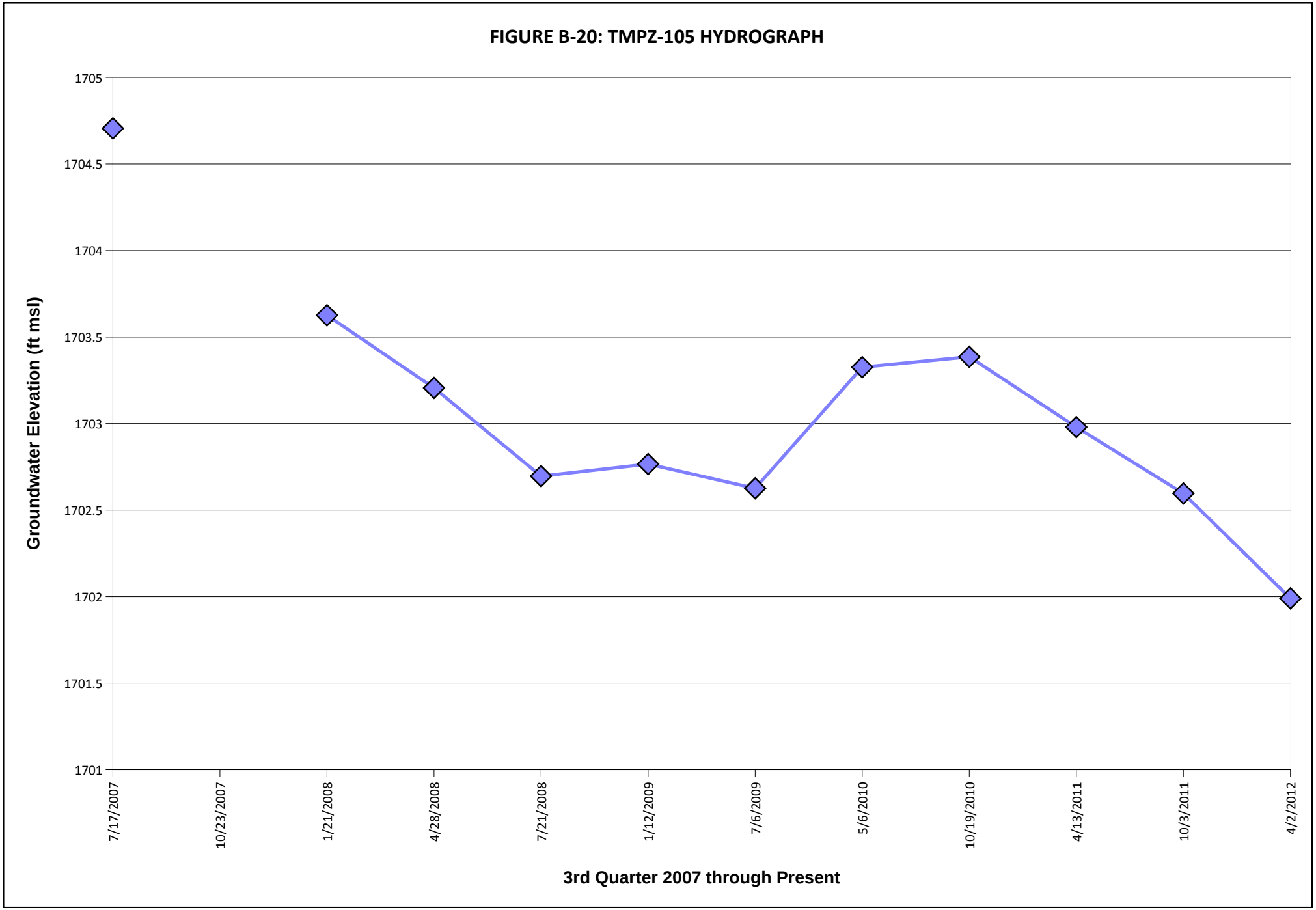


FIGURE B-20: TMPZ-105 HYDROGRAPH
Groundwater Elevation (ft msl)
1705
1704.5
1704
1703.5
1703
1702.5
1702
1701.5
1701
7/17/2007
10/23/2007
1/21/2008
4/28/2008
7/21/2008
1/12/2009
7/6/2009
5/6/2010
10/19/2010
4/13/2011
10/3/2011
4/2/2012
3rd Quarter 2007 through Present

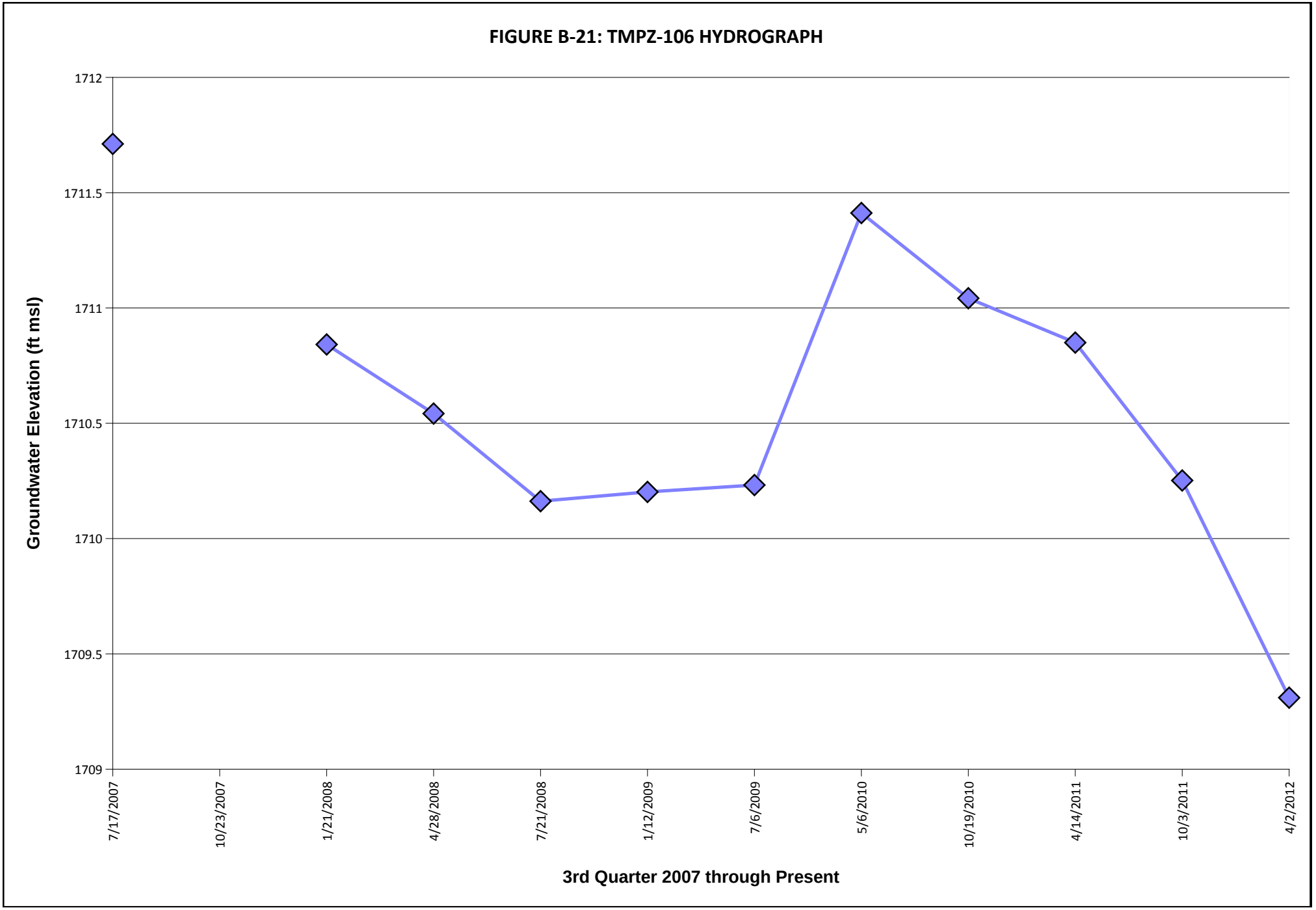


FIGURE B-21: TMPZ-106 HYDROGRAPH
Groundwater Elevation (ft msl)
1712
1711.5
1711
1710.5
1710
1709.5
1709
7/17/2007
10/23/2007
1/21/2008
4/28/2008
7/21/2008
1/12/2009
7/6/2009
5/6/2010
10/19/2010
4/14/2011
10/3/2011
4/2/2012
3rd Quarter 2007 through Present

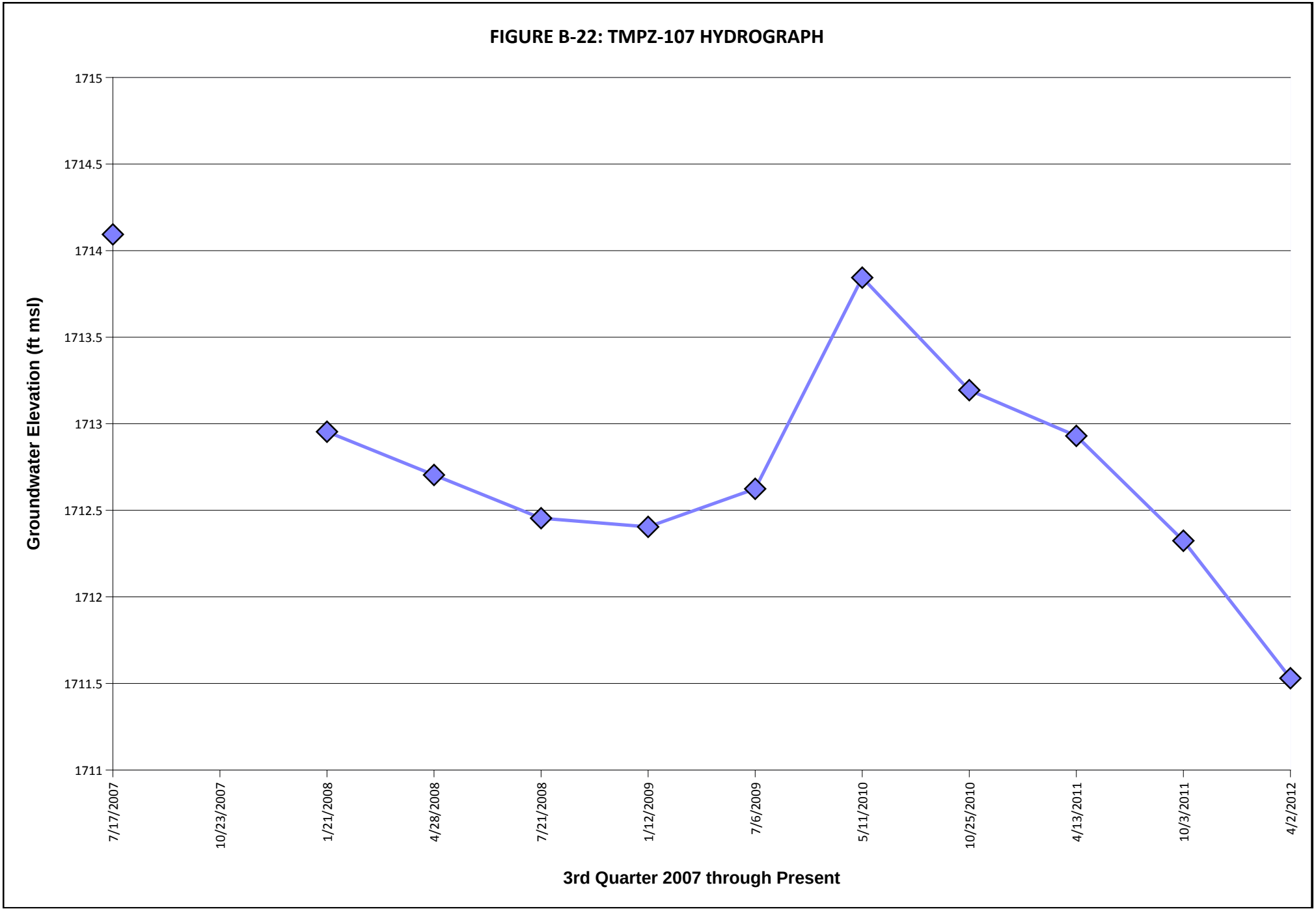


FIGURE B-22: TMPZ-107 HYDROGRAPH
Groundwater Elevation (ft msl)
1715
1714.5
1714
1713.5
1713
1712.5
1712
1711.5
1711
7/17/2007
10/23/2007
1/21/2008
4/28/2008
7/21/2008
1/12/2009
7/6/2009
5/11/2010
10/25/2010
4/13/2011
10/3/2011
4/2/2012
3rd Quarter 2007 through Present

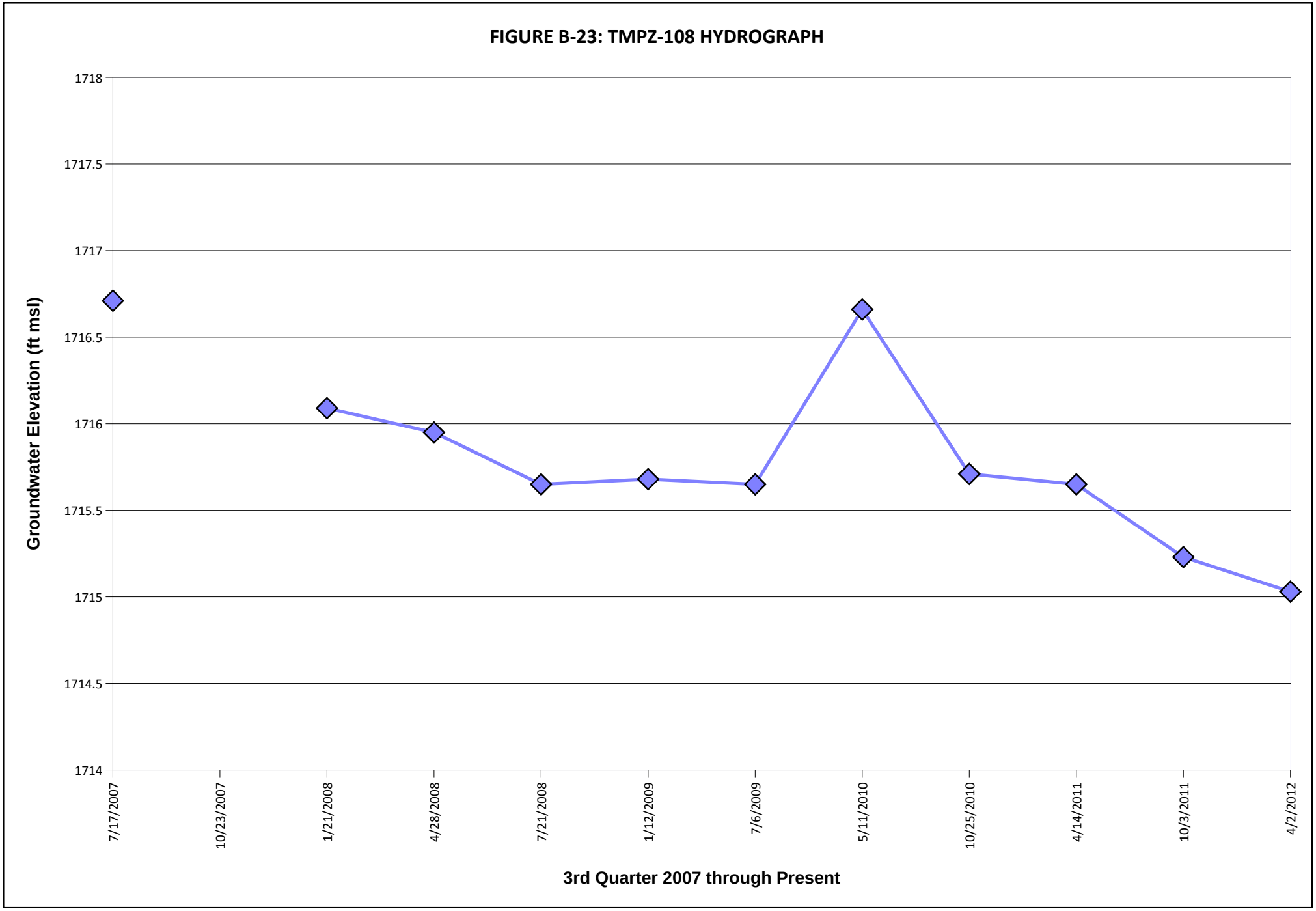


FIGURE B-23: TMPZ-108 HYDROGRAPH
Groundwater Elevation (ft msl)
1718
1717.5
1717
1716.5
1716
1715.5
1715
1714.5
1714
7/17/2007
10/23/2007
1/21/2008
4/28/2008
7/21/2008
1/12/2009
7/6/2009
5/11/2010
10/25/2010
4/14/2011
10/3/2011
4/2/2012
3rd Quarter 2007 through Present

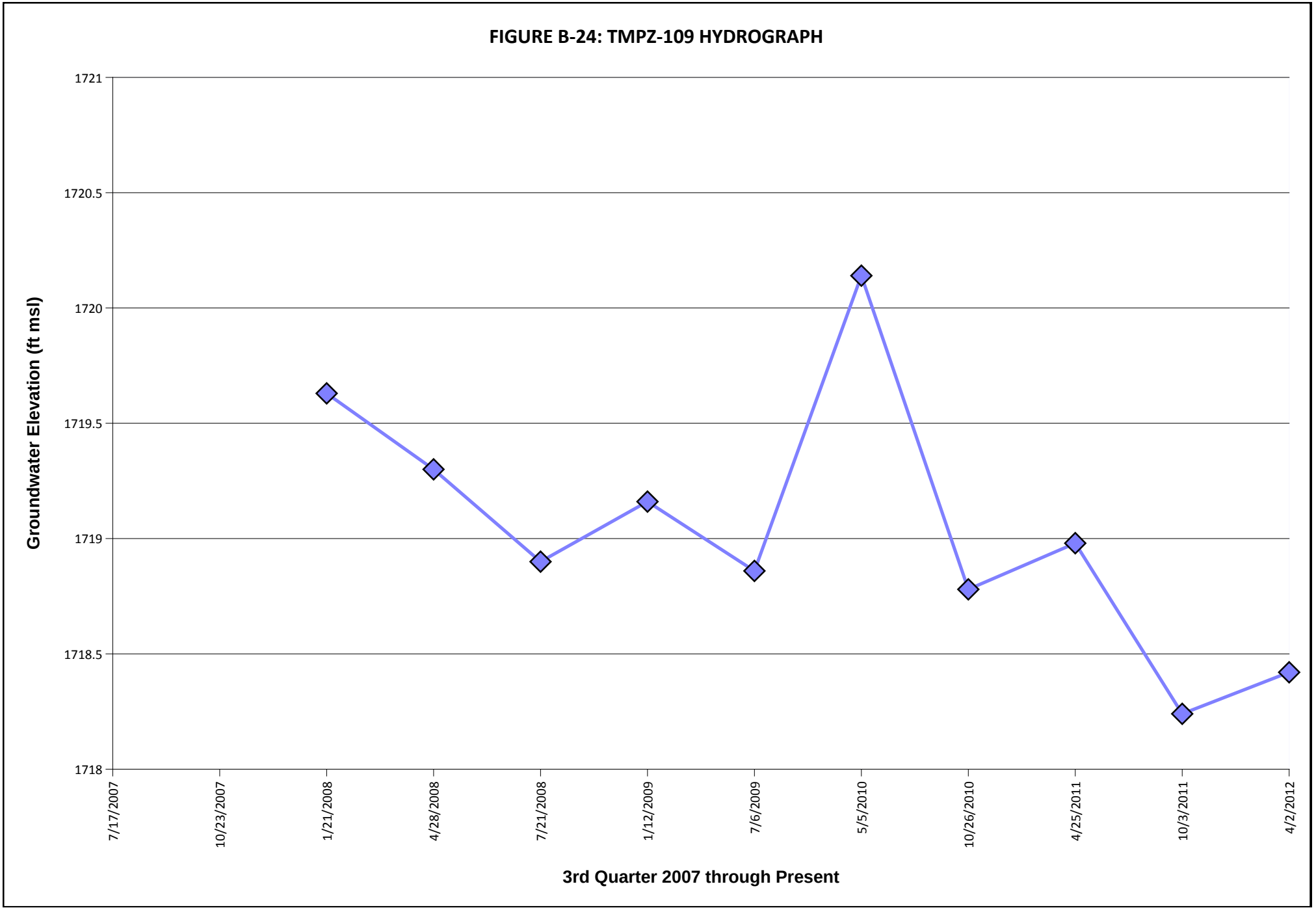


FIGURE B-24: TMPZ-109 HYDROGRAPH
Groundwater Elevation (ft msl)
1721
1720.5
1720
1719.5
1719
1718.5
1718
7/17/2007
10/23/2007
1/21/2008
4/28/2008
7/21/2008
1/12/2009
7/6/2009
5/5/2010
10/26/2010
4/25/2011
10/3/2011
4/2/2012
3rd Quarter 2007 through Present

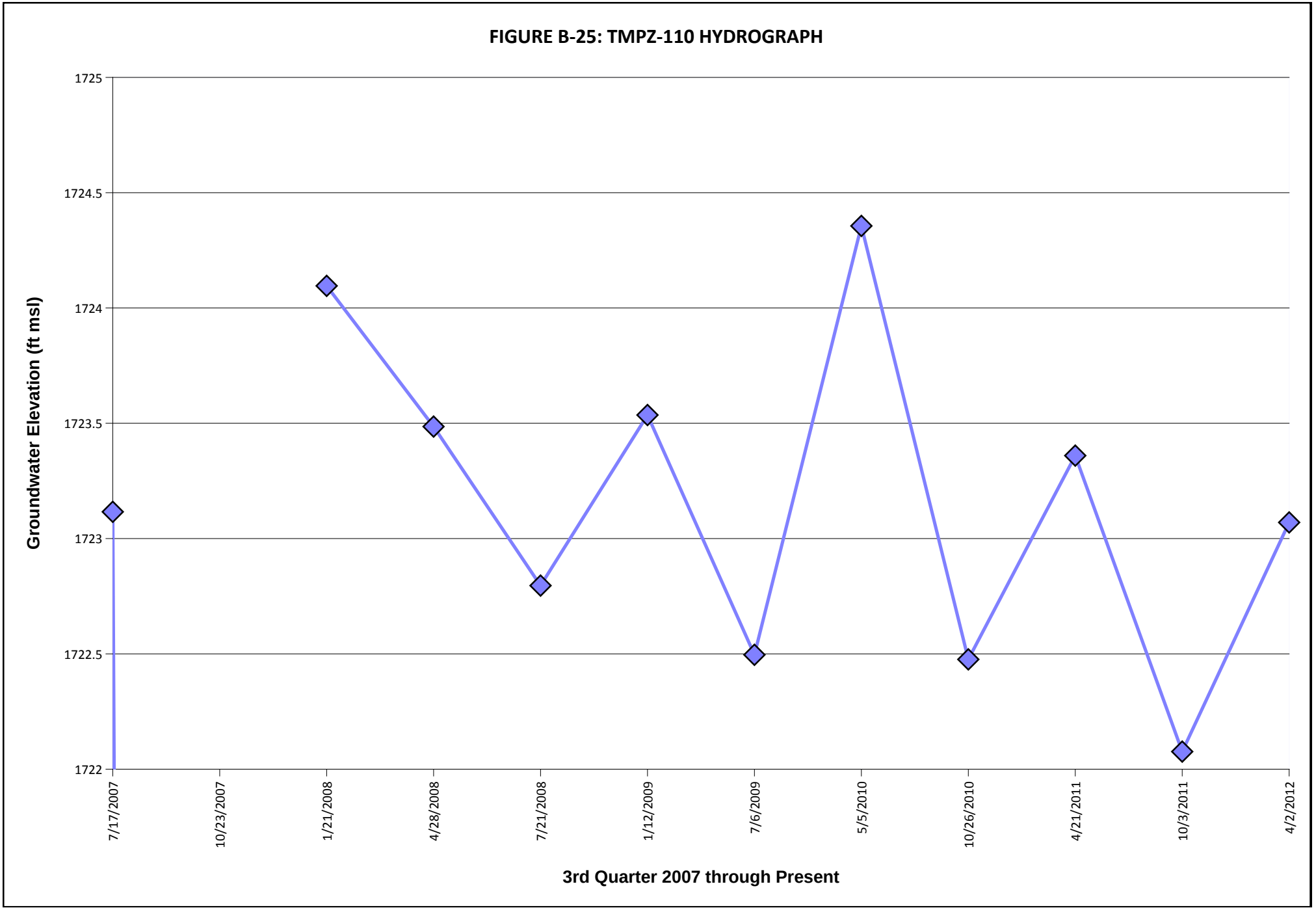


FIGURE B-25: TMPZ-110 HYDROGRAPH
Groundwater Elevation (ft msl)
1725
1724.5
1724
1723.5
1723
1722.5
1722
7/17/2007
10/23/2007
1/21/2008
4/28/2008
7/21/2008
1/12/2009
7/6/2009
5/5/2010
10/26/2010
4/21/2011
10/3/2011
4/2/2012
3rd Quarter 2007 through Present

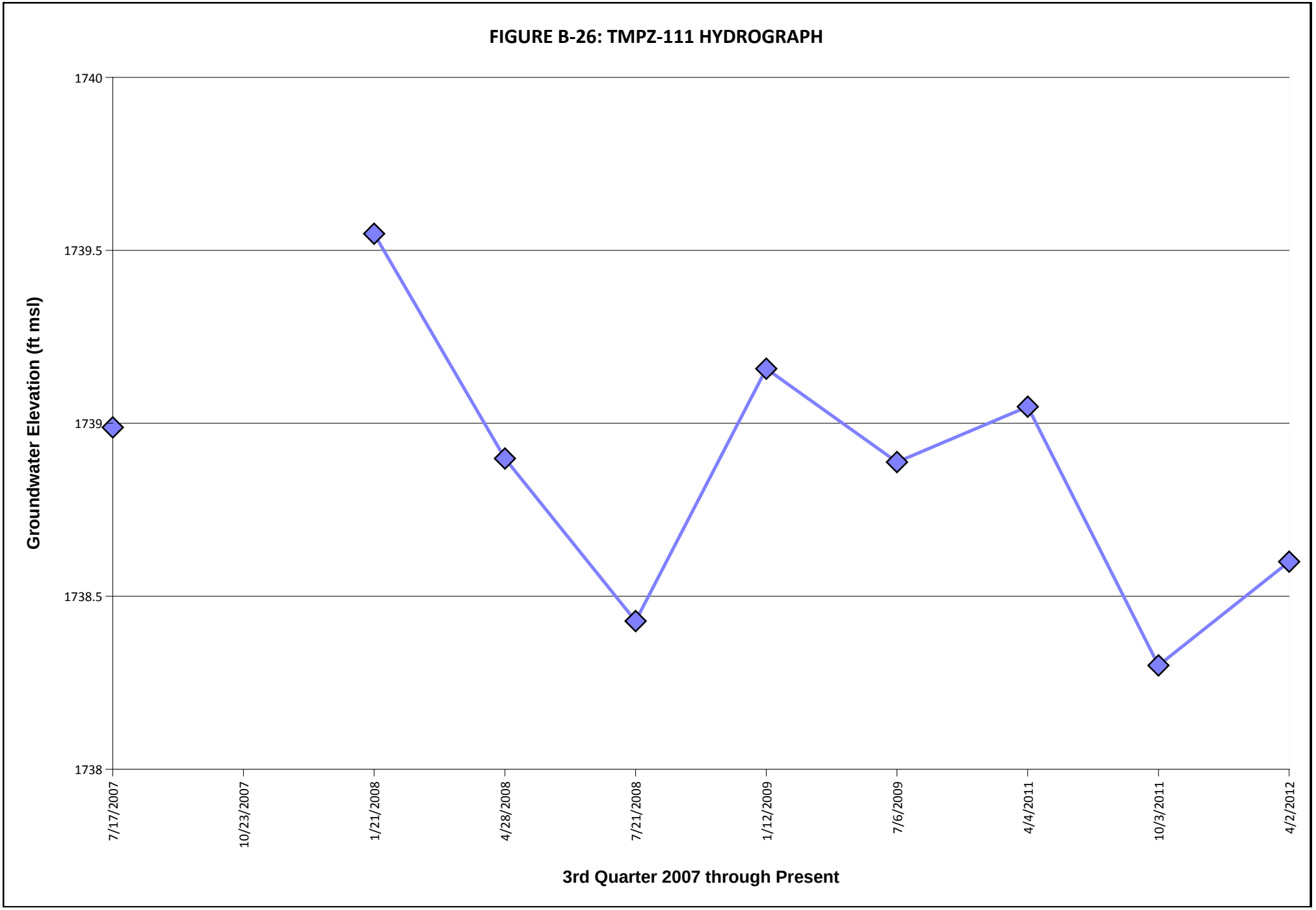


FIGURE B-26: TMPZ-111 HYDROGRAPH
Groundwater Elevation (ft msl)
1740
1739.5
1739
1738.5
1738
7/17/2007
10/23/2007
1/21/2008
4/28/2008
7/21/2008
1/12/2009
7/6/2009
4/4/2011
10/3/2011
4/2/2012
3rd Quarter 2007 through Present

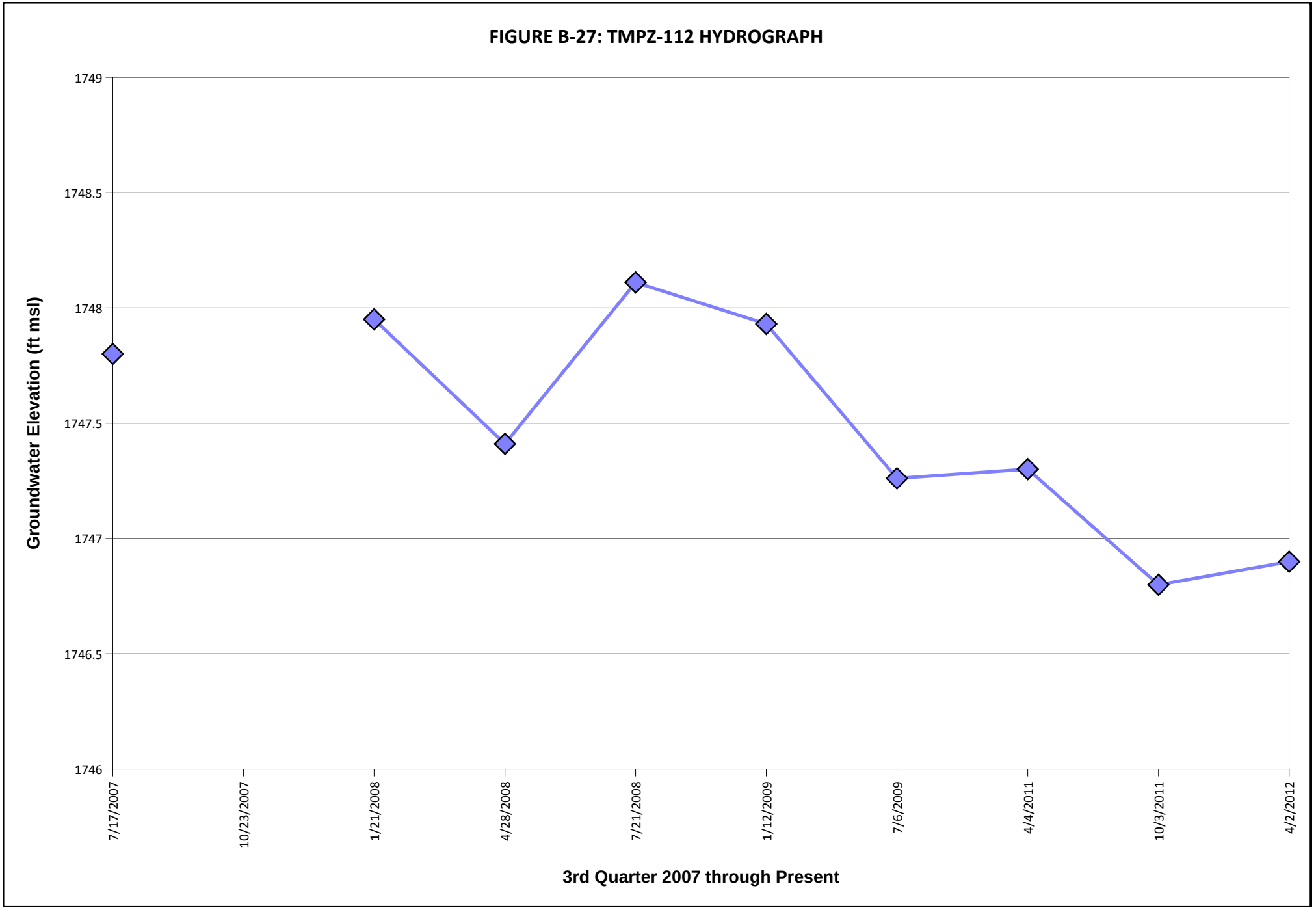


FIGURE B-27: TMPZ-112 HYDROGRAPH
Groundwater Elevation (ft msl)
1749
1748.5
1748
1747.5
1747
1746.5
1746
7/17/2007
10/23/2007
1/21/2008
4/28/2008
7/21/2008
1/12/2009
7/6/2009
4/4/2011
10/3/2011
4/2/2012
3rd Quarter 2007 through Present

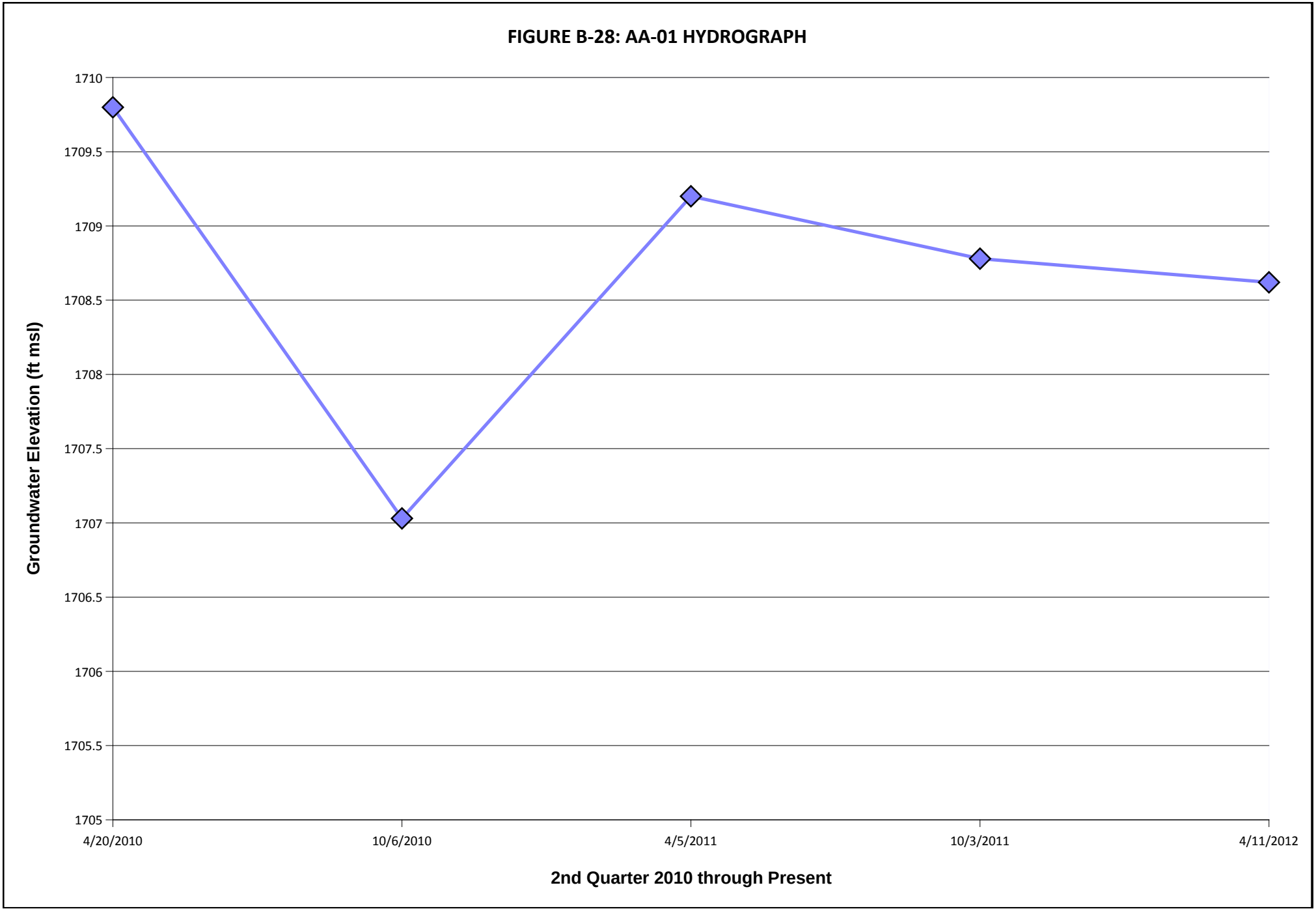


FIGURE B-28: AA-01 HYDROGRAPH
Groundwater Elevation (ft msl)
1710
1709.5
1709
1708.5
1708
1707.5
1707
1706.5
1706
1705.5
1705
4/20/2010
10/6/2010
4/5/2011
10/3/2011
4/11/2012
2nd Quarter 2010 through Present

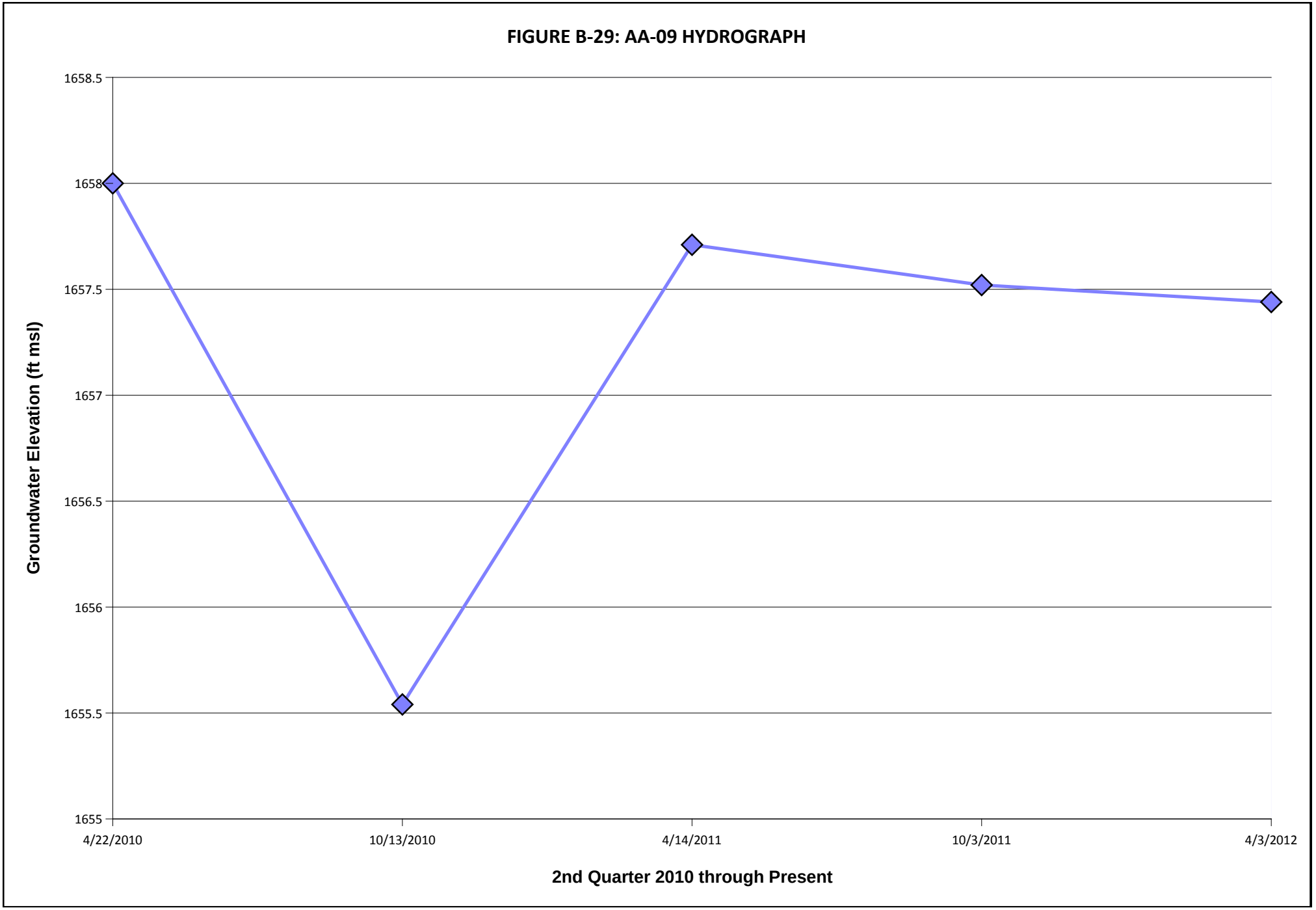


FIGURE B-29: AA-09 HYDROGRAPH
Groundwater Elevation (ft msl)
1658.5
1658
1657.5
1657
1656.5
1656
1655.5
1655
4/22/2010
10/13/2010
4/14/2011
10/3/2011
4/3/2012
2nd Quarter 2010 through Present

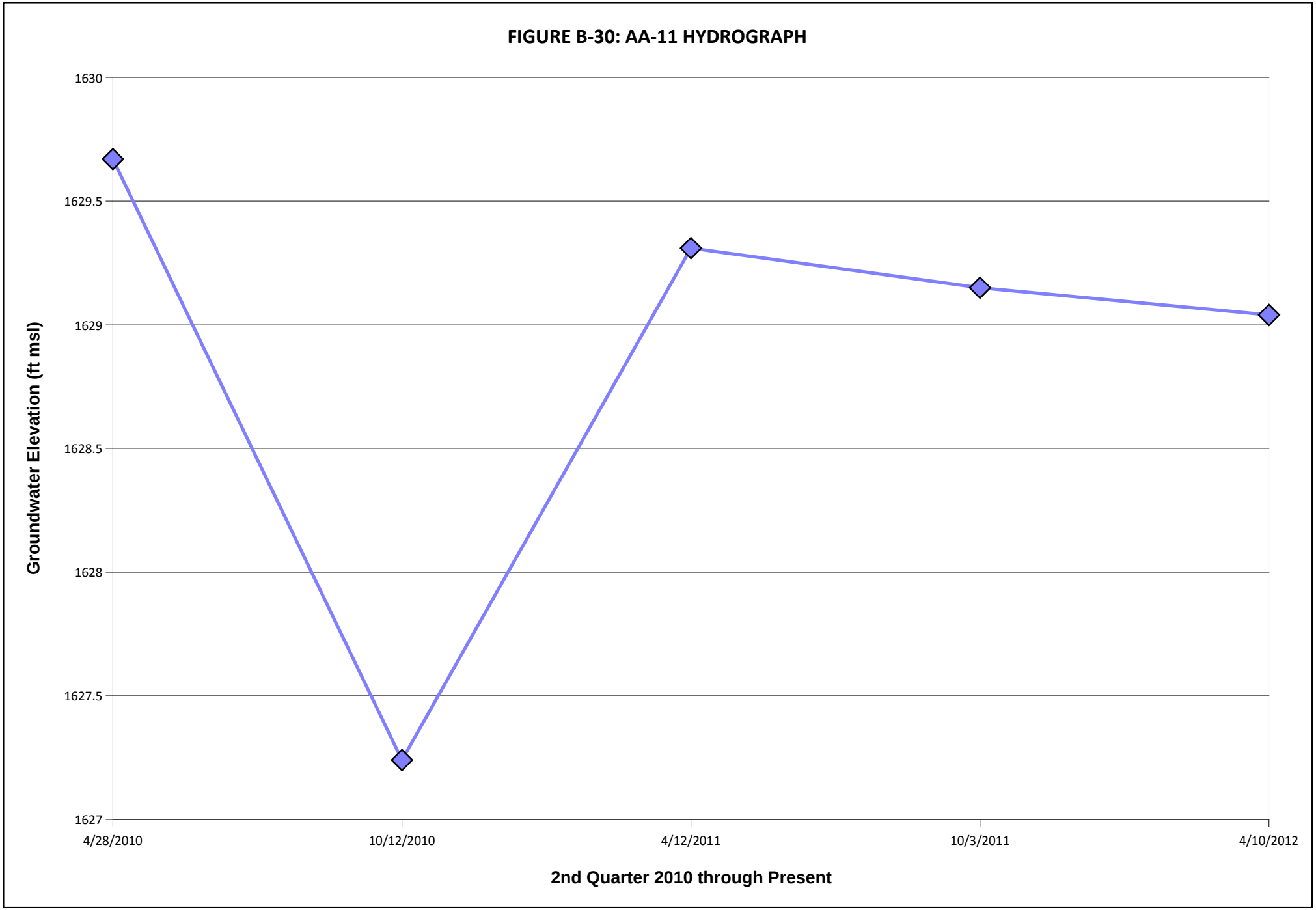


FIGURE B-30: AA-11 HYDROGRAPH
Groundwater Elevation (ft msl)
1630
1629.5
1629
1628.5
1628
1627.5
1627
4/28/2010
10/12/2010
4/12/2011
10/3/2011
4/10/2012
2nd Quarter 2010 through Present

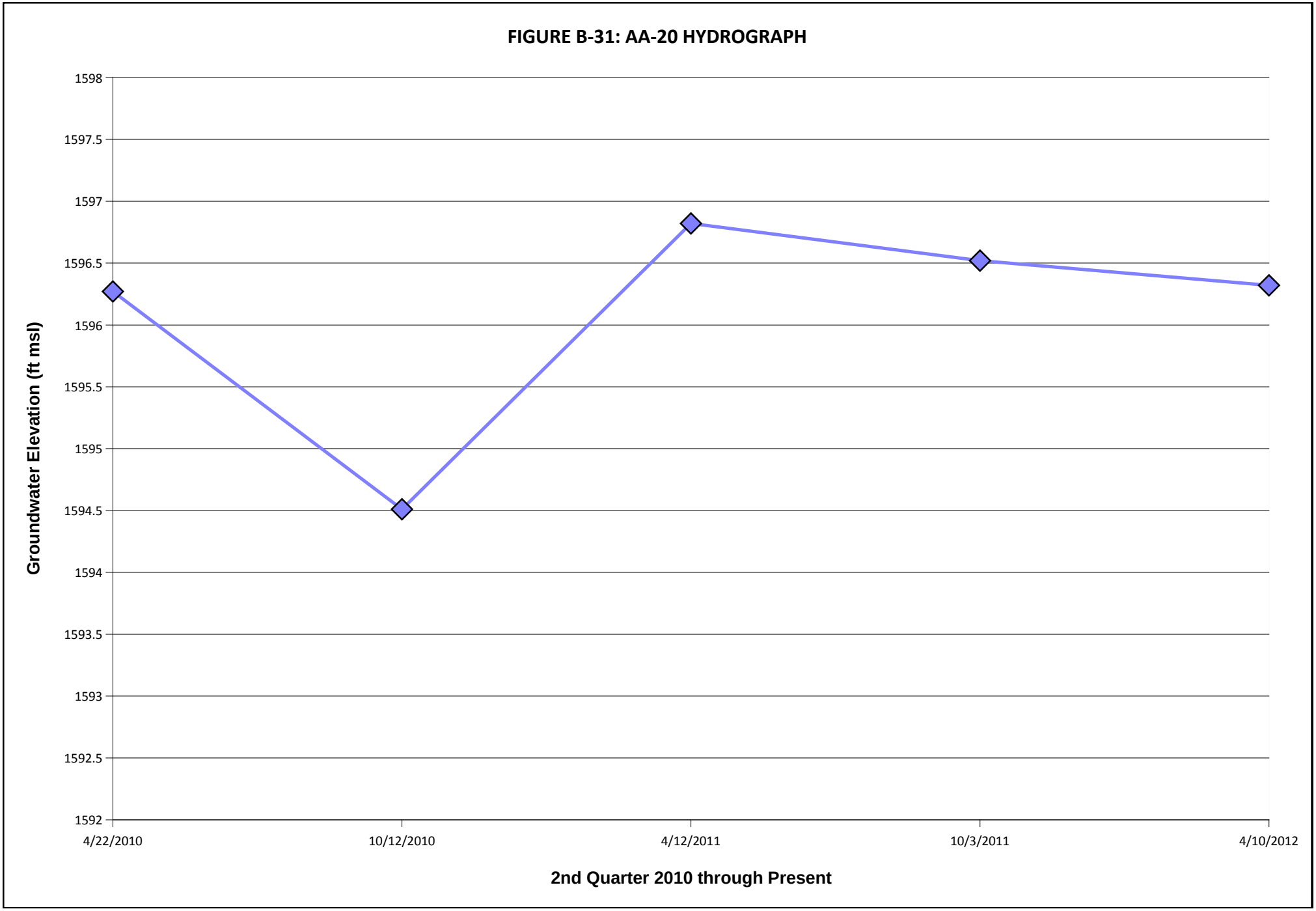


FIGURE B-31: AA-20 HYDROGRAPH
Groundwater Elevation (ft msl)
1598
1597.5
1597
1596.5
1596
1595.5
1595
1594.5
1594
1593.5
1593
1592.5
1592
4/22/2010
10/12/2010
4/12/2011
10/3/2011
4/10/2012
2nd Quarter 2010 through Present

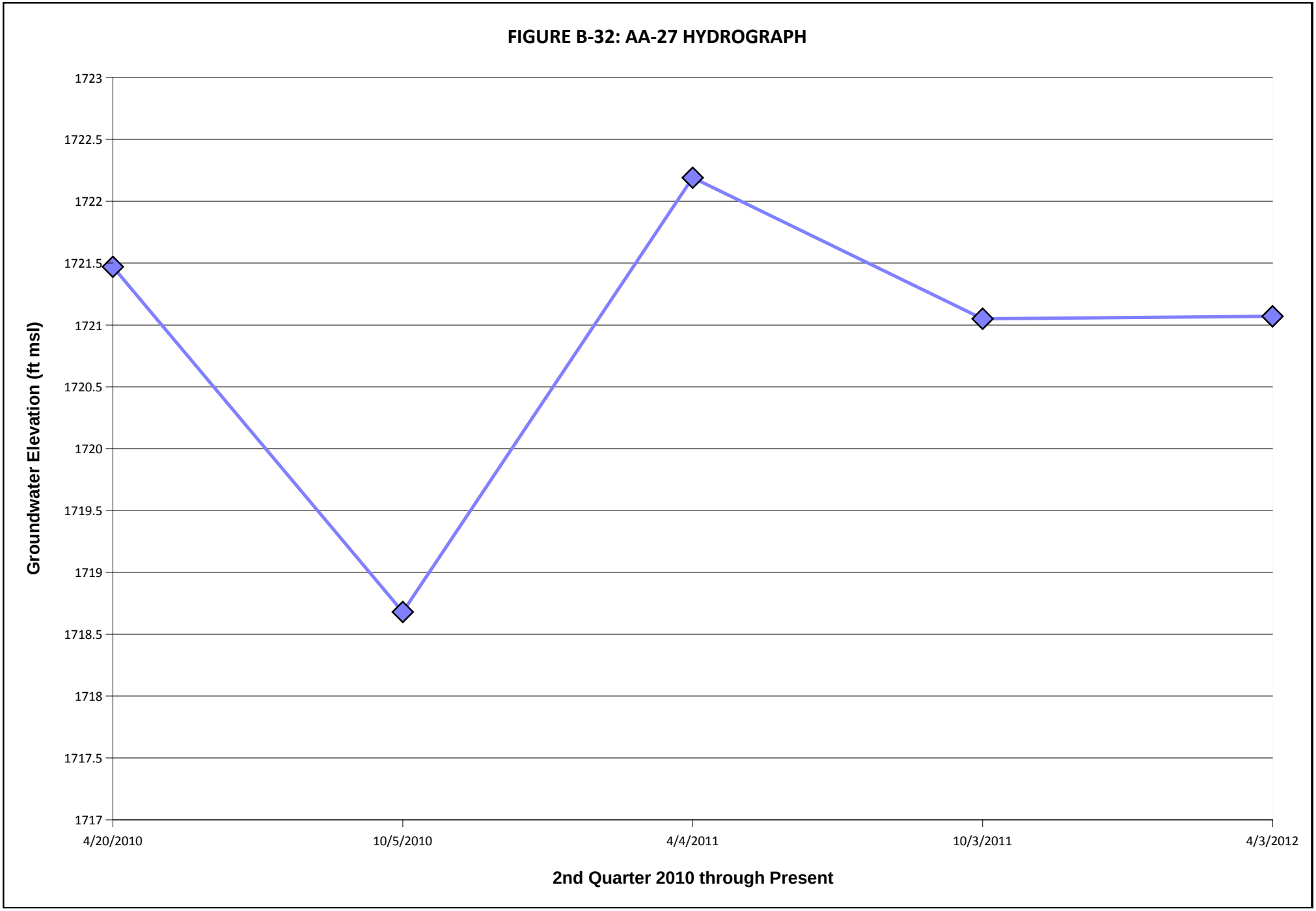


FIGURE B-32: AA-27 HYDROGRAPH
Groundwater Elevation (ft msl)
1723
1722.5
1722
1721.5
1721
1720.5
1720
1719.5
1719
1718.5
1718
1717.5
1717
4/20/2010
10/5/2010
4/4/2011
10/3/2011
4/3/2012
2nd Quarter 2010 through Present

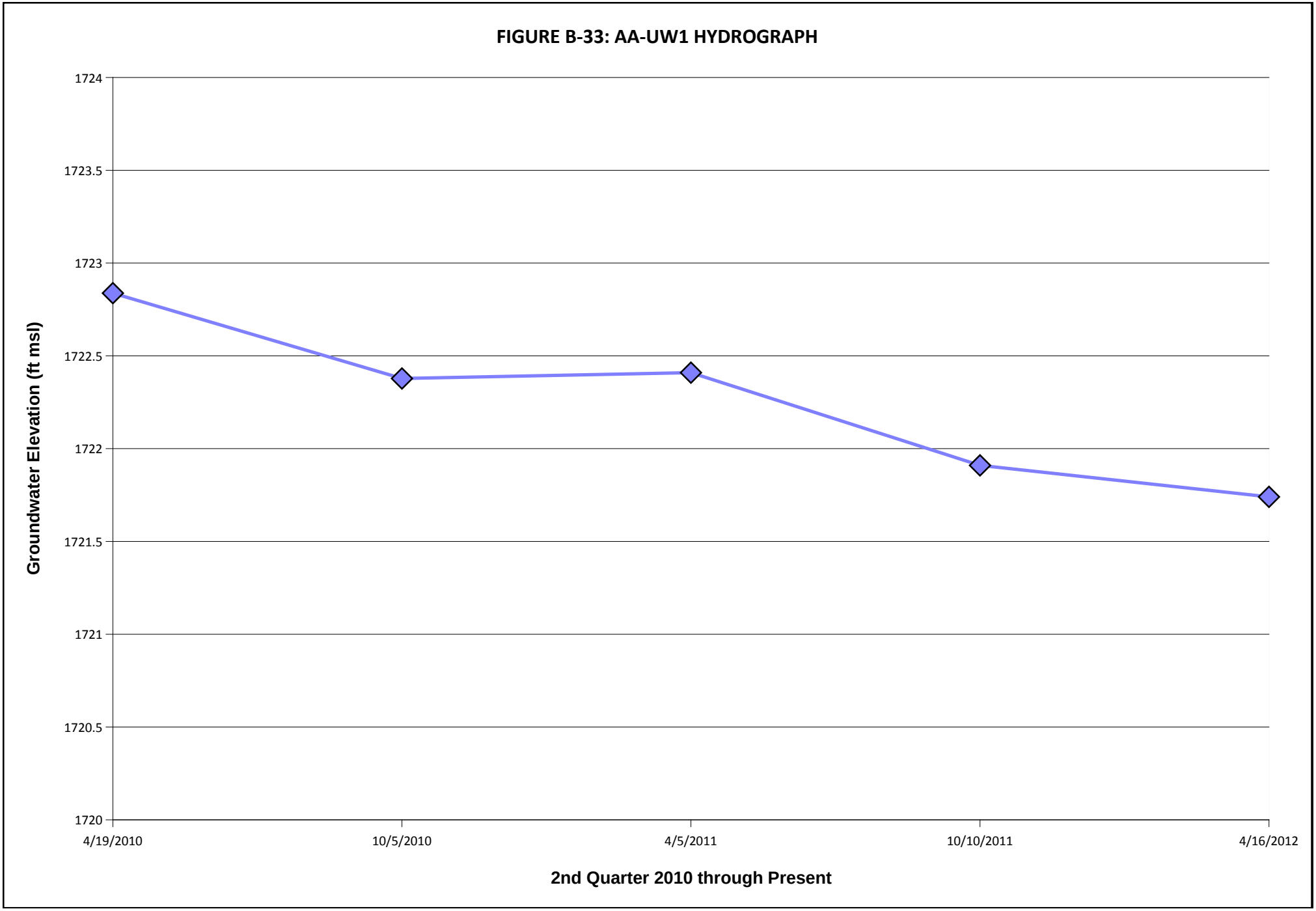


FIGURE B-33: AA-UW1 HYDROGRAPH
Groundwater Elevation (ft msl)
1724
1723.5
1723
1722.5
1722
1721.5
1721
1720.5
1720
4/19/2010
10/5/2010
4/5/2011
10/10/2011
4/16/2012
2nd Quarter 2010 through Present

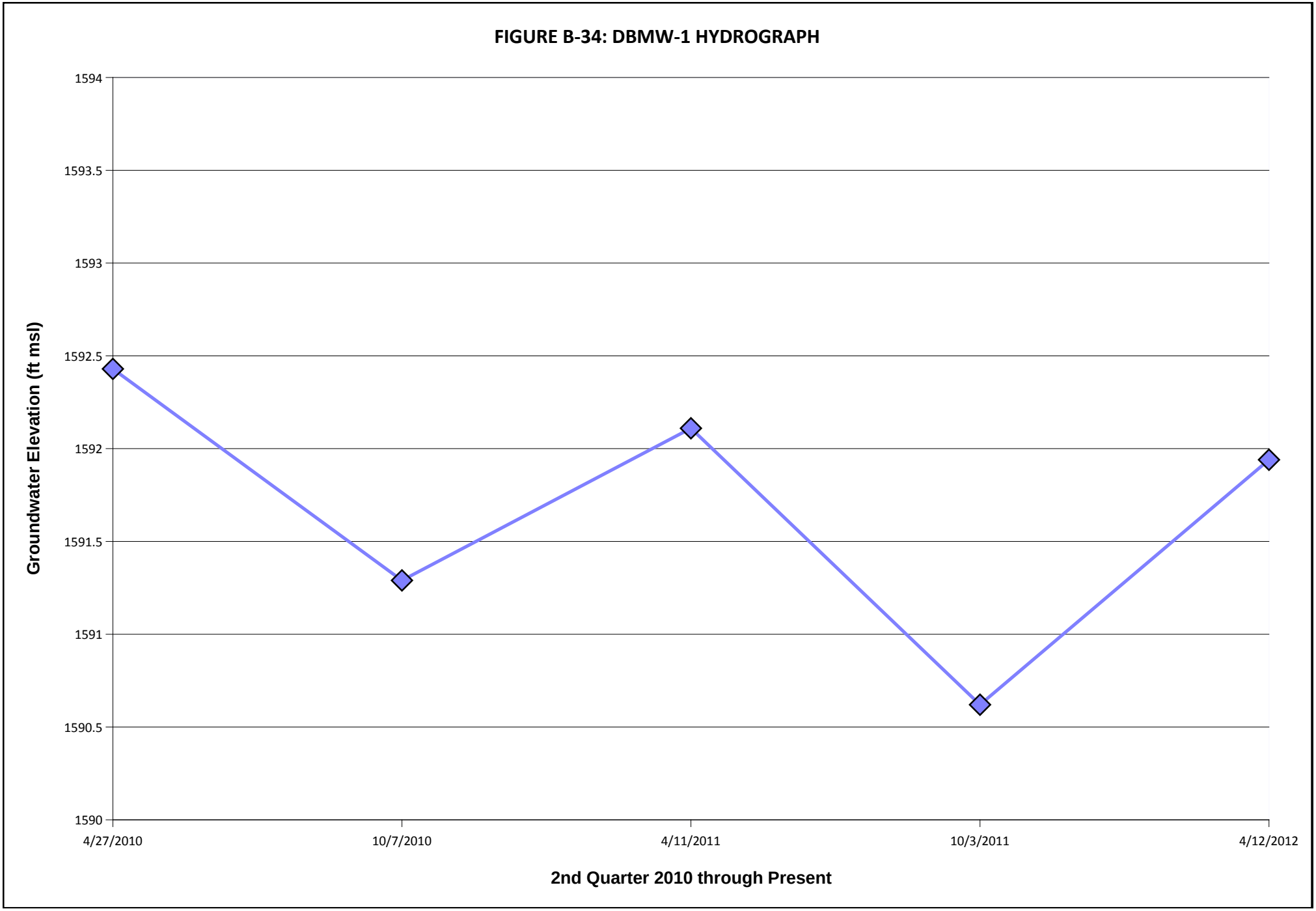


FIGURE B-34: DBMW-1 HYDROGRAPH
Groundwater Elevation (ft msl)
1594
1593.5
1593
1592.5
1592
1591.5
1591
1590.5
1590
4/27/2010
10/7/2010
4/11/2011
10/3/2011
4/12/2012
2nd Quarter 2010 through Present

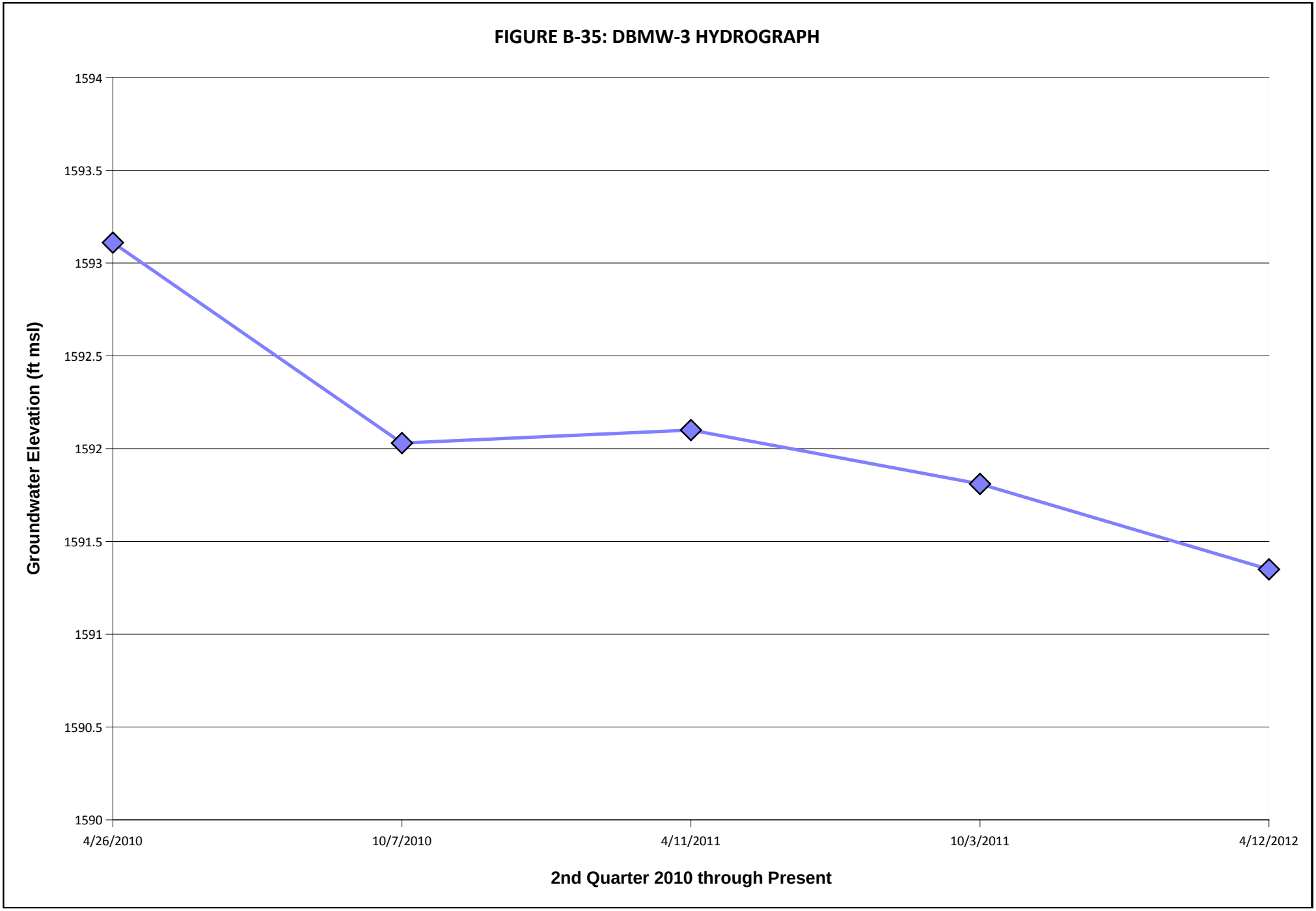


FIGURE B-35: DBMW-3 HYDROGRAPH
Groundwater Elevation (ft msl)
1594
1593.5
1593
1592.5
1592
1591.5
1591
1590.5
1590
4/26/2010
10/7/2010
4/11/2011
10/3/2011
4/12/2012
2nd Quarter 2010 through Present

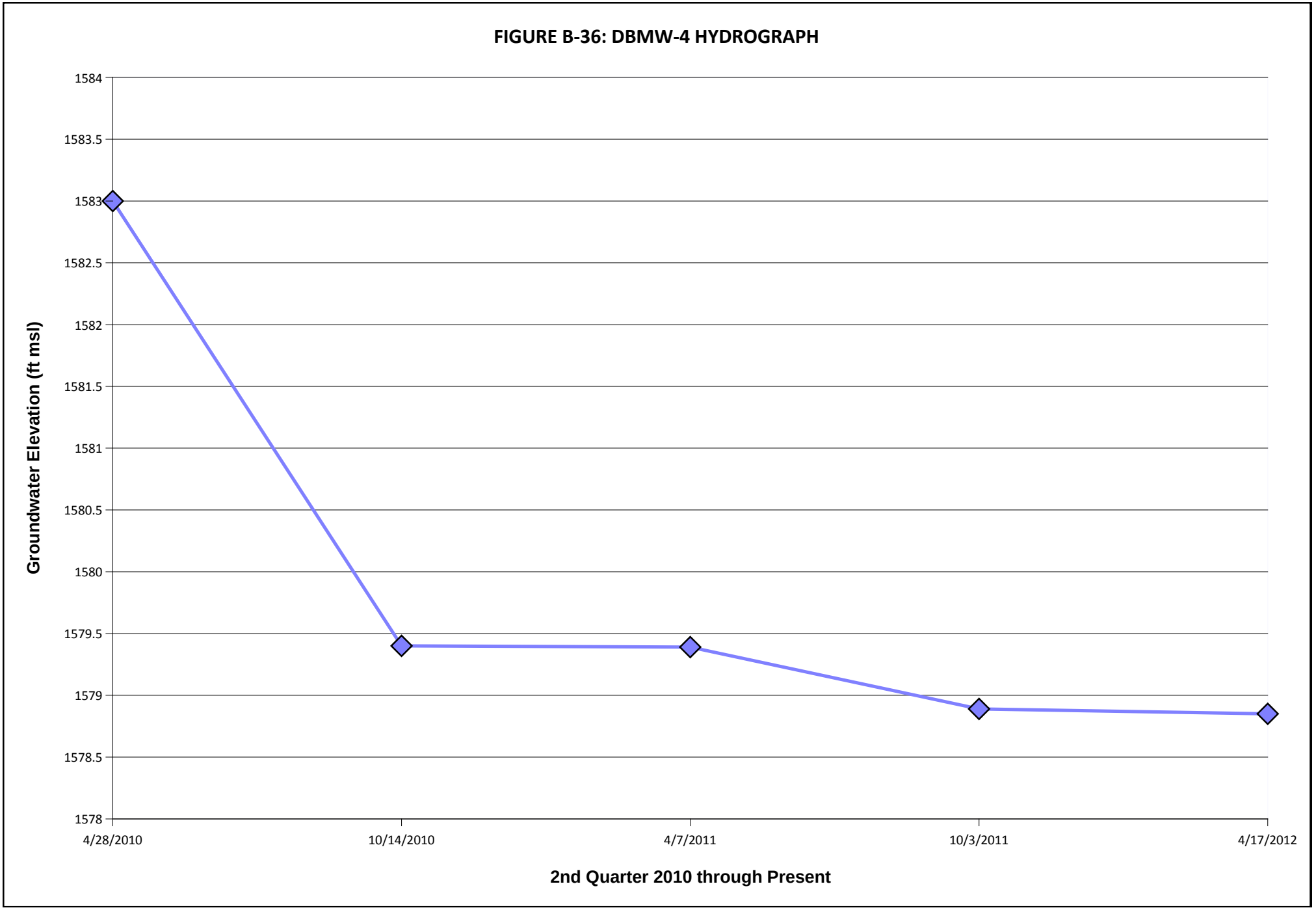


FIGURE B-36: DBMW-4 HYDROGRAPH
Groundwater Elevation (ft msl)
1584
1583.5
1583
1582.5
1582
1581.5
1581
1580.5
1580
1579.5
1579
1578.5
1578
4/28/2010
10/14/2010
4/7/2011
10/3/2011
4/17/2012
2nd Quarter 2010 through Present

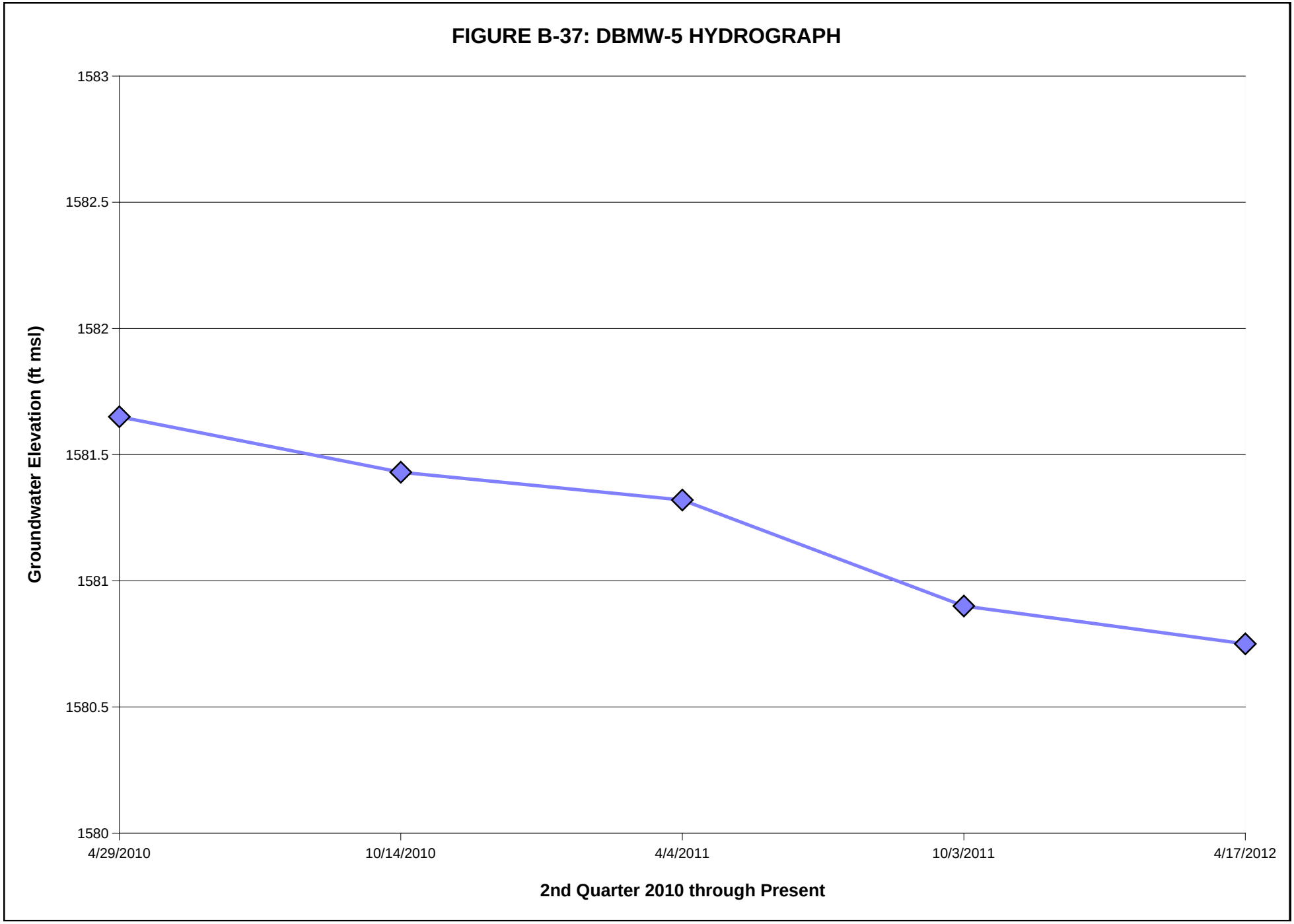


FIGURE B-37: DBMW-5 HYDROGRAPH
Groundwater Elevation (ft msl)
1583
1582.5
1582
1581.5
1581
1580.5
1580
4/29/2010
10/14/2010
4/4/2011
10/3/2011
4/17/2012
2nd Quarter 2010 through Present

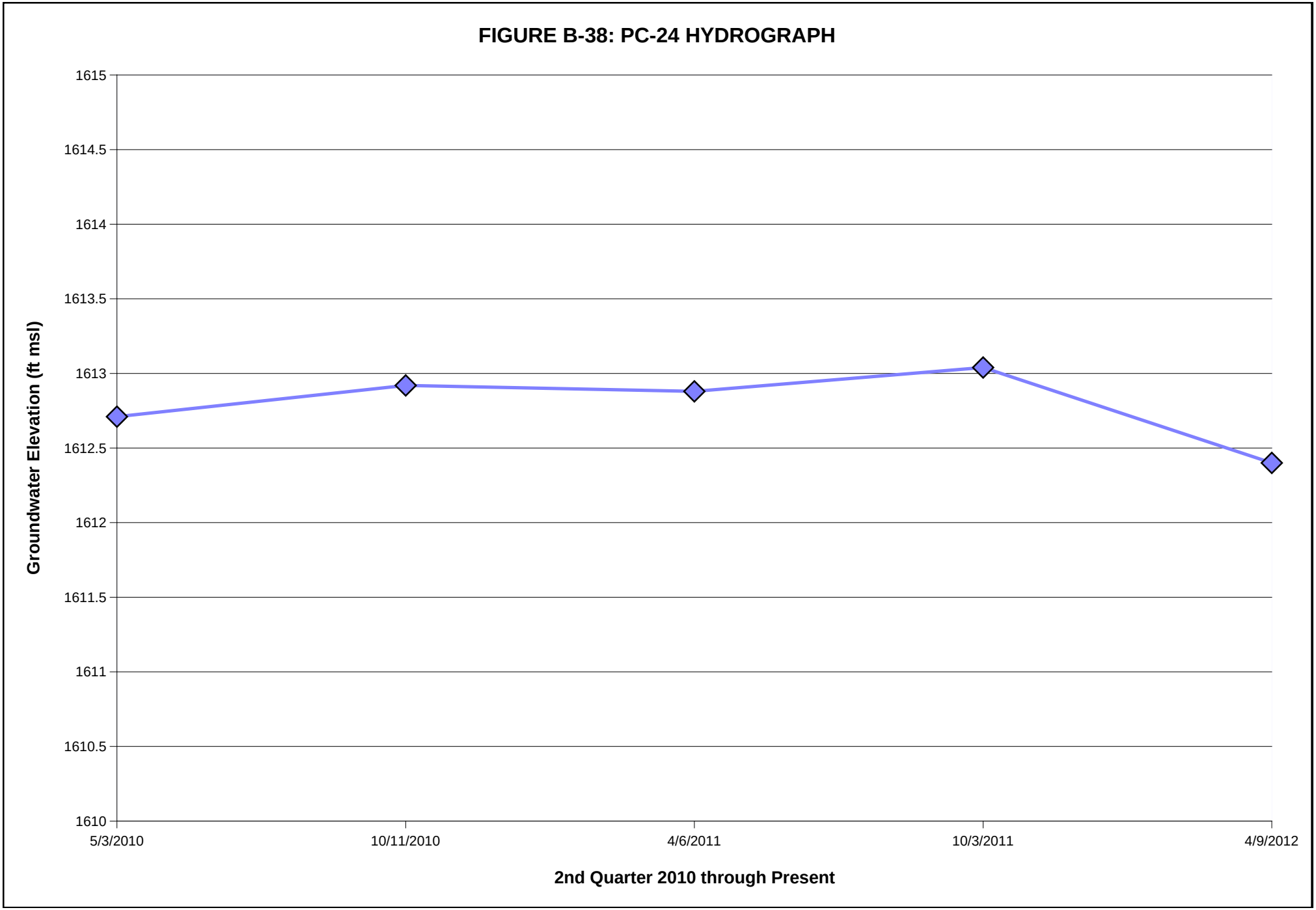


FIGURE B-38: PC-24 HYDROGRAPH
Groundwater Elevation (ft msl)
1615
1614.5
1614
1613.5
1613
1612.5
1612
1611.5
1611
1610.5
1610
5/3/2010
10/11/2010
4/6/2011
10/3/2011
4/9/2012
2nd Quarter 2010 through Present

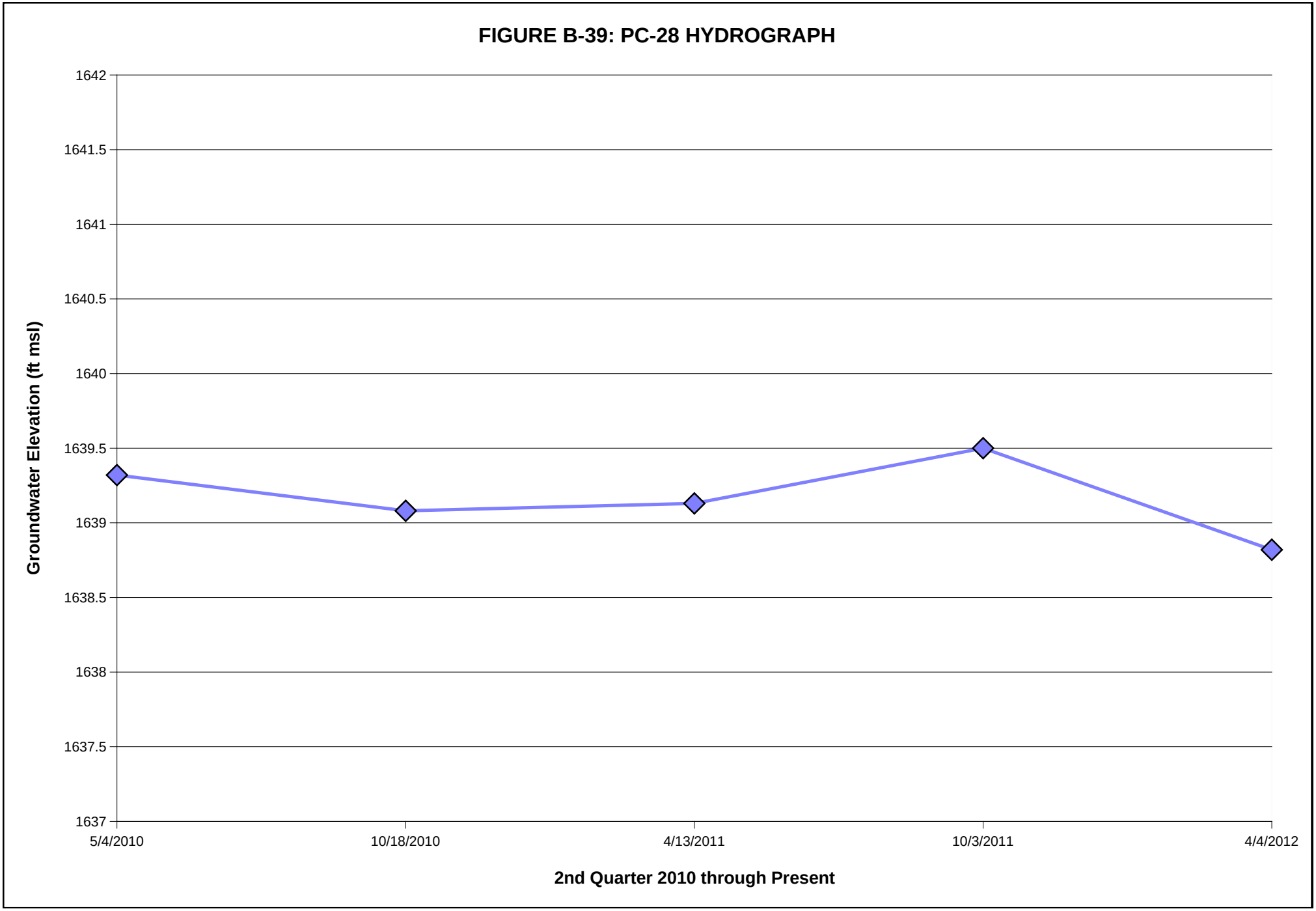


FIGURE B-39: PC-28 HYDROGRAPH
Groundwater Elevation (ft msl)
1642
1641.5
1641
1640.5
1640
1639.5
1639
1638.5
1638
1637.5
1637
5/4/2010
10/18/2010
4/13/2011
10/3/2011
4/4/2012
2nd Quarter 2010 through Present

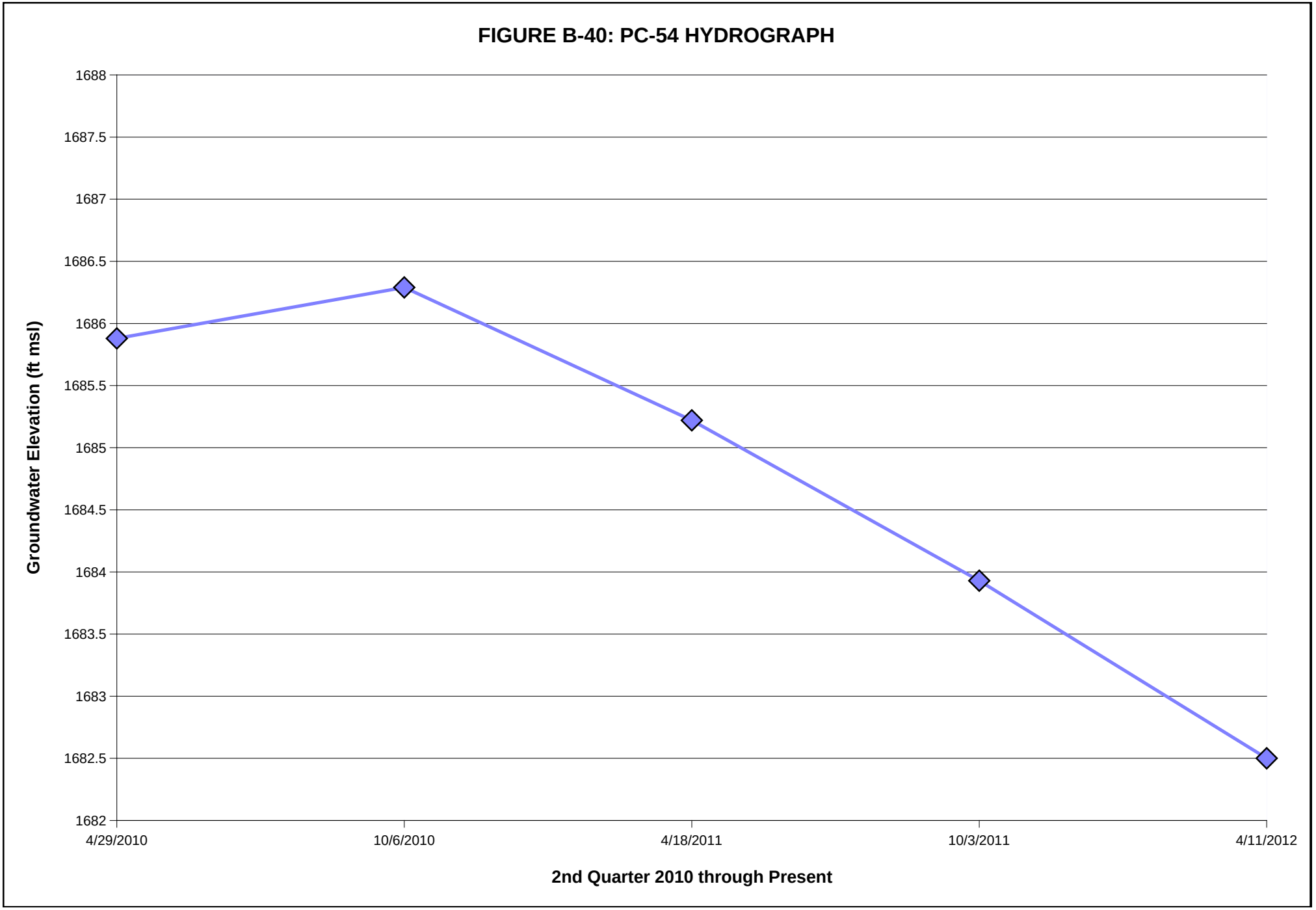


FIGURE B-40: PC-54 HYDROGRAPH
Groundwater Elevation (ft msl)
1688
1687.5
1687
1686.5
1686
1685.5
1685
1684.5
1684
1683.5
1683
1682.5
1682
4/29/2010
10/6/2010
4/18/2011
10/3/2011
4/11/2012
2nd Quarter 2010 through Present

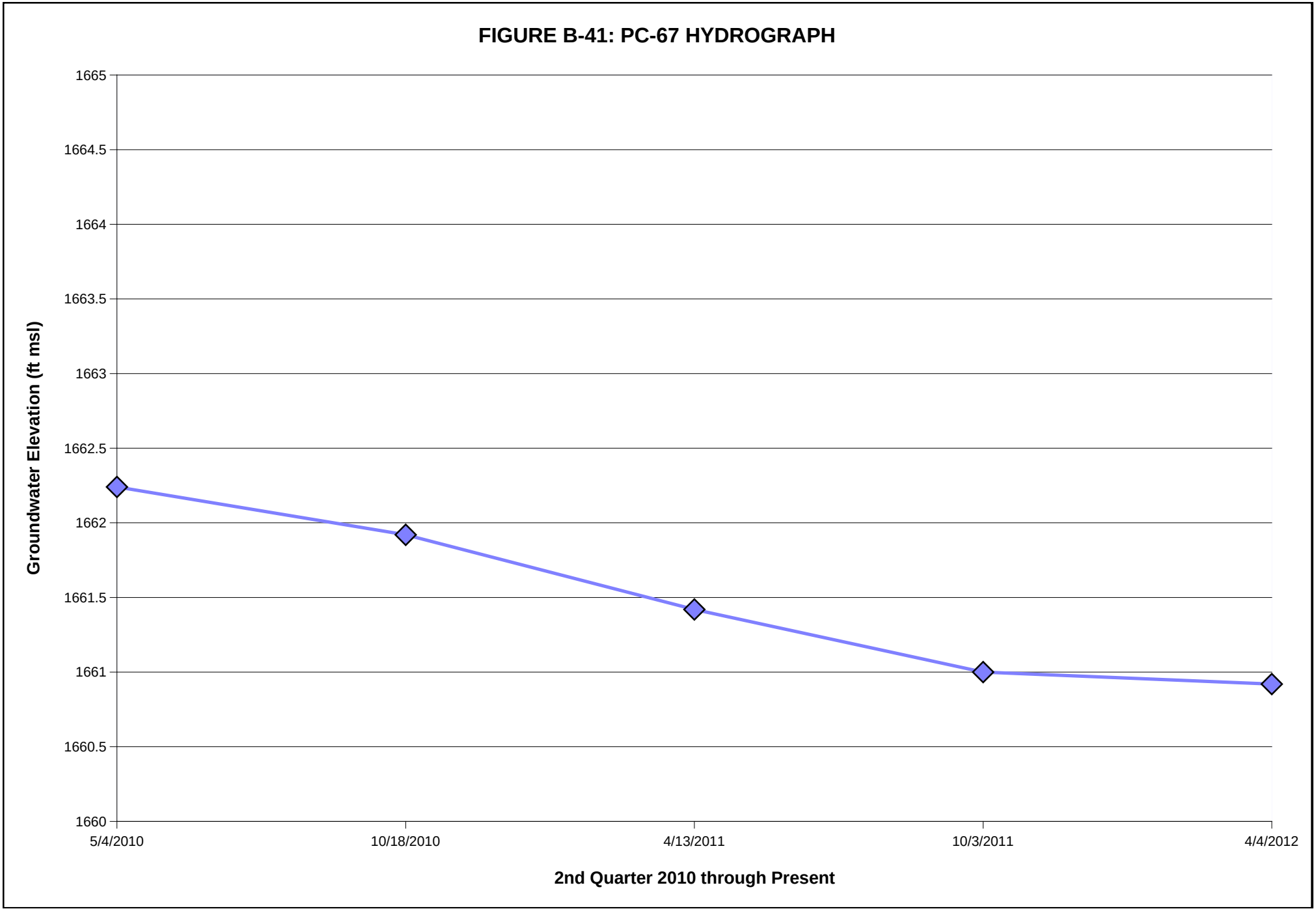


FIGURE B-41: PC-67 HYDROGRAPH
Groundwater Elevation (ft msl)
1665
1664.5
1664
1663.5
1663
1662.5
1662
1661.5
1661
1660.5
1660
5/4/2010
10/18/2010
4/13/2011
10/3/2011
4/4/2012
2nd Quarter 2010 through Present

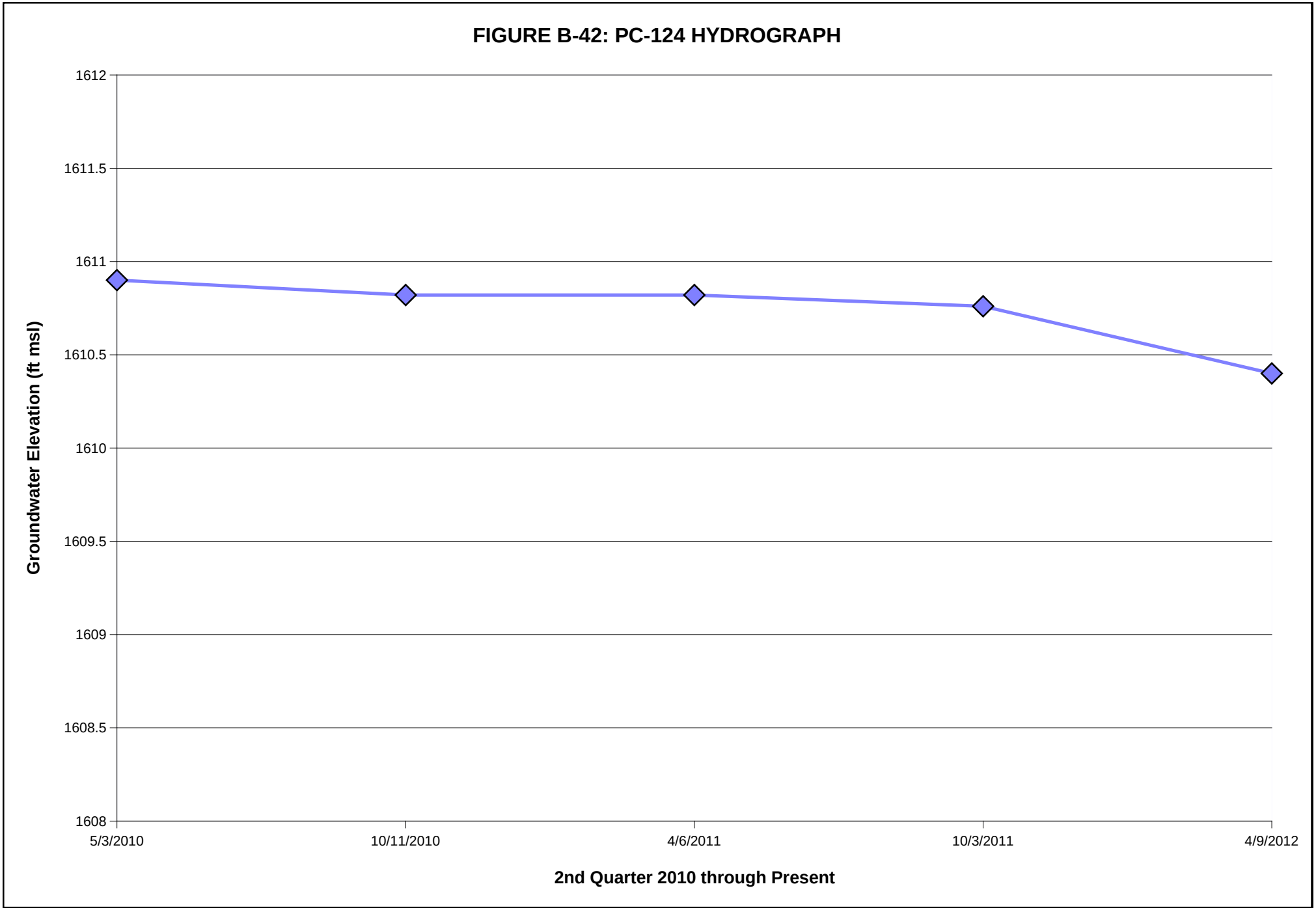


FIGURE B-42: PC-124 HYDROGRAPH
Groundwater Elevation (ft msl)
1612
1611.5
1611
1610.5
1610
1609.5
1609
1608.5
1608
5/3/2010
10/11/2010
4/6/2011
10/3/2011
4/9/2012
2nd Quarter 2010 through Present

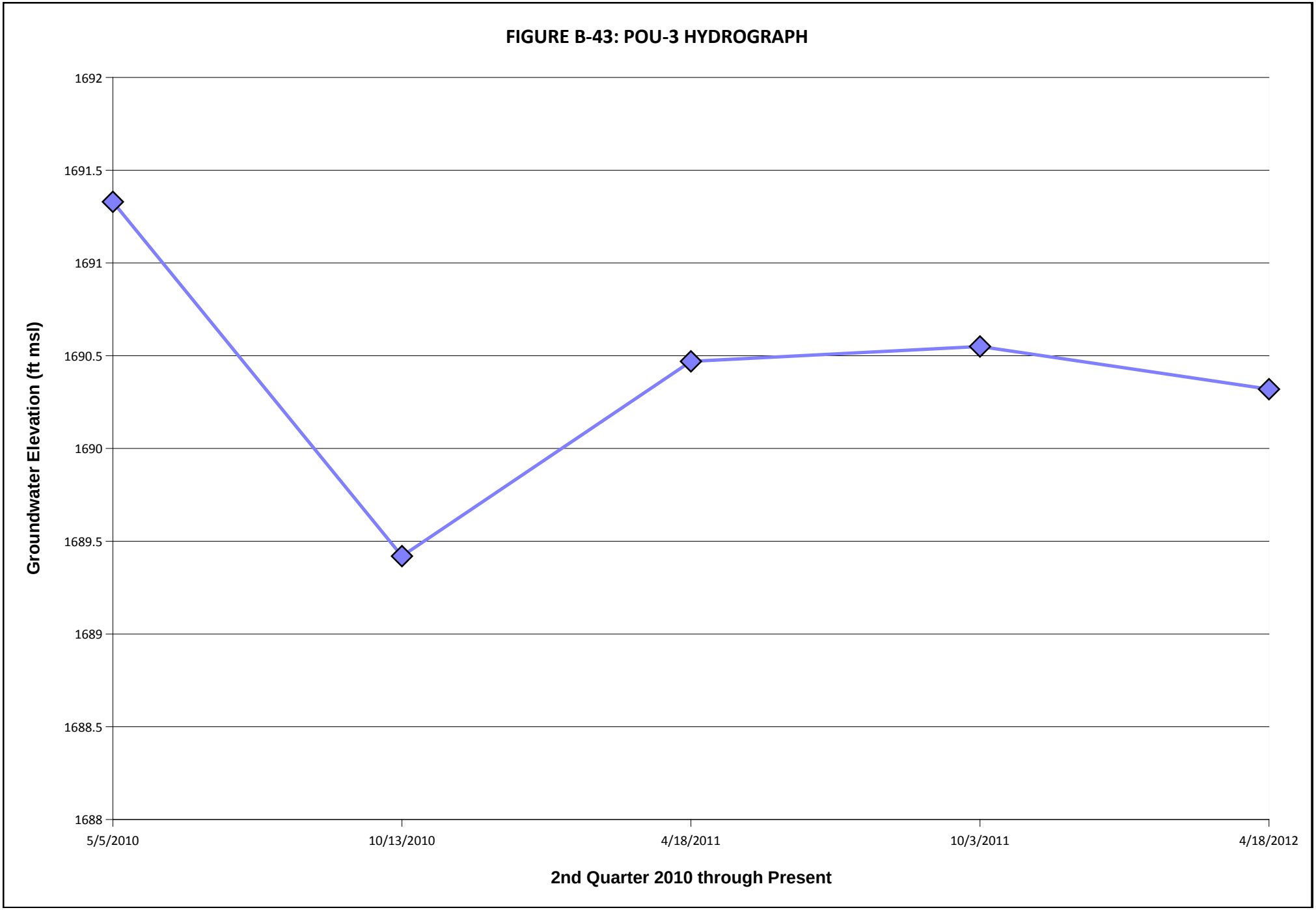


FIGURE B-43: POU-3 HYDROGRAPH
Groundwater Elevation (ft msl)
1692
1691.5
1691
1690.5
1690
1689.5
1689
1688.5
1688
5/5/2010
10/13/2010
4/18/2011
10/3/2011
4/18/2012
2nd Quarter 2010 through Present

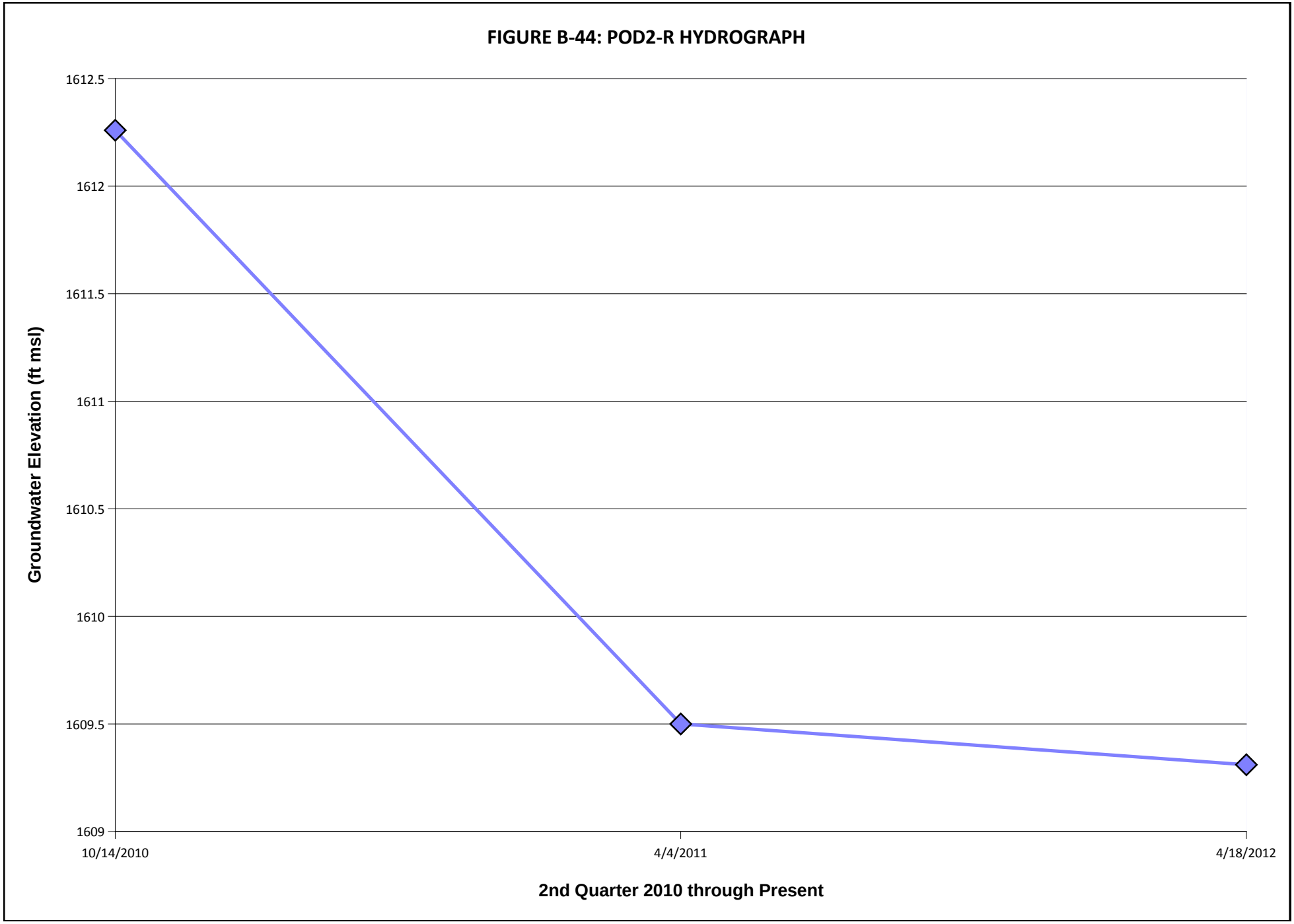


FIGURE B-44: POD2-R HYDROGRAPH
Groundwater Elevation (ft msl)
1612.5
1612
1611.5
1611
1610.5
1610
1609.5
1609
10/14/2010
4/4/2011
4/18/2012
2nd Quarter 2010 through Present

APPENDIX C

CONCENTRATION TREND GRAPHS

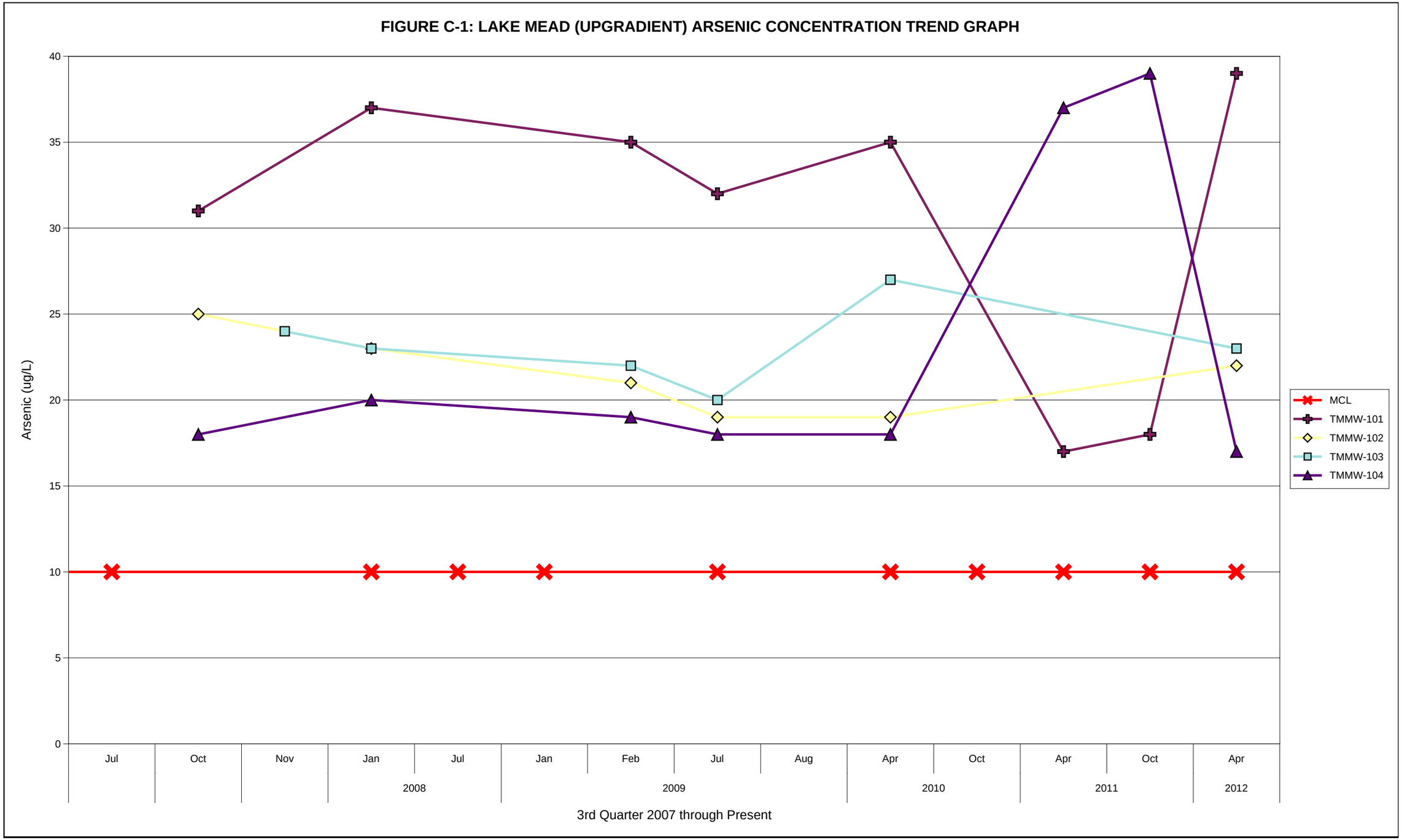


FIGURE C-1: LAKE MEAD (UPGRADIENT) ARSENIC CONCENTRATION TREND GRAPH
Arsenic (ug/L)
40
35
30
25
20
15
10
5
0
Jul
Oct
Nov
Jan
Jul
Jan
Feb
Jul
Aug
Apr
Oct
Apr
Oct
Apr
2008
2009
2010
2011
2012
3rd Quarter 2007 through Present
MCL
TMMW-101
TMMW-102
TMMW-103
TMMW-104

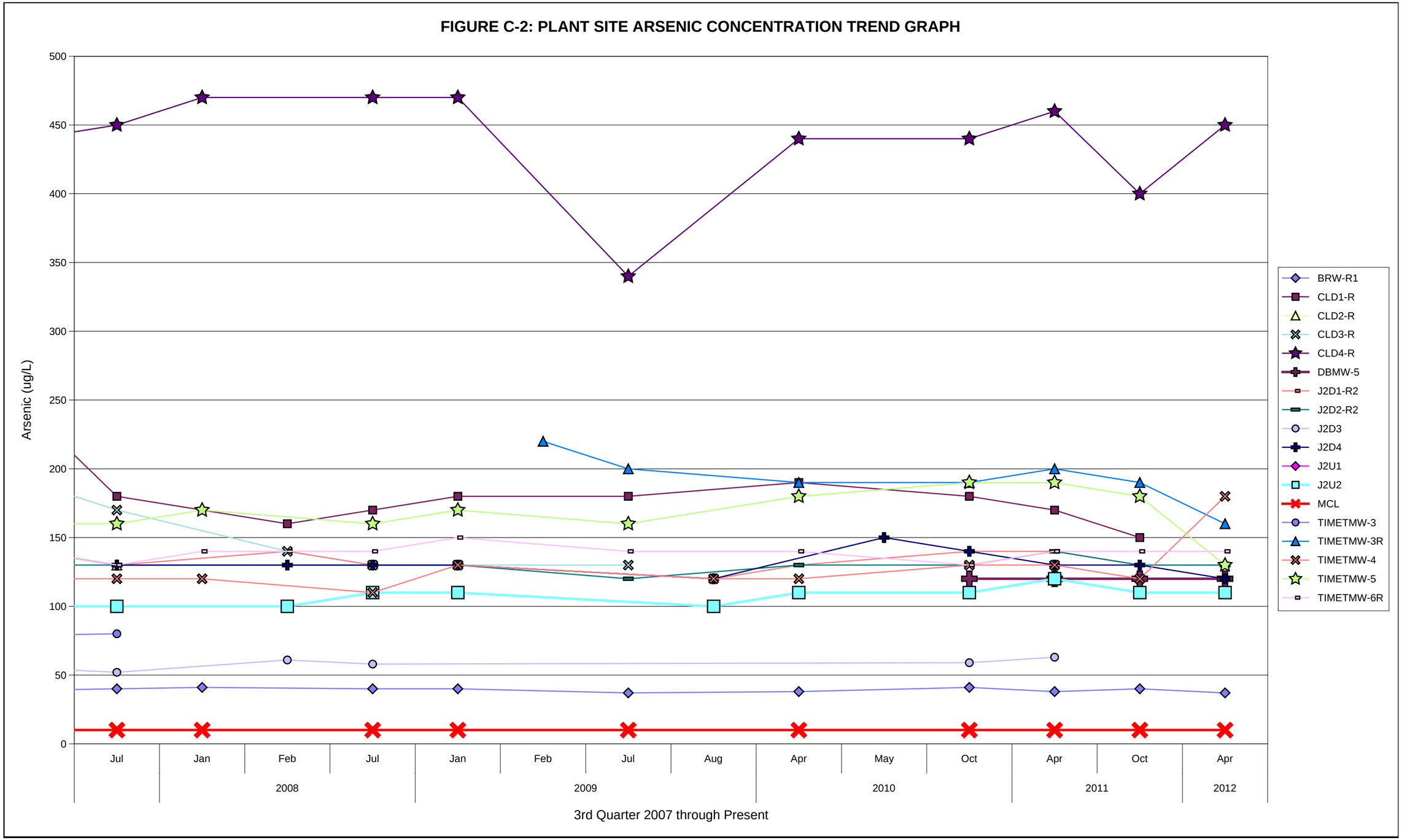


FIGURE C-2: PLANT SITE ARSENIC CONCENTRATION TREND GRAPH
Arsenic (ug/L)
500
450
400
350
300
250
200
150
100
50
0
Jul
Jan
Feb
Jul
Jan
Feb
Jul
Aug
Apr
May
Oct
Apr
Oct
Apr
2008
2009
2010
2011
2012
3rd Quarter 2007 through Present
BRW-R1
CLD1-R
CLD2-R
CLD3-R
CLD4-R
DBMW-5
J2D1-R2
J2D2-R2
J2D3
J2D4
J2U1
J2U2
MCL
TIMETMW-3
TIMETMW-3R
TIMETMW-4
TIMETMW-5
TIMETMW-6R

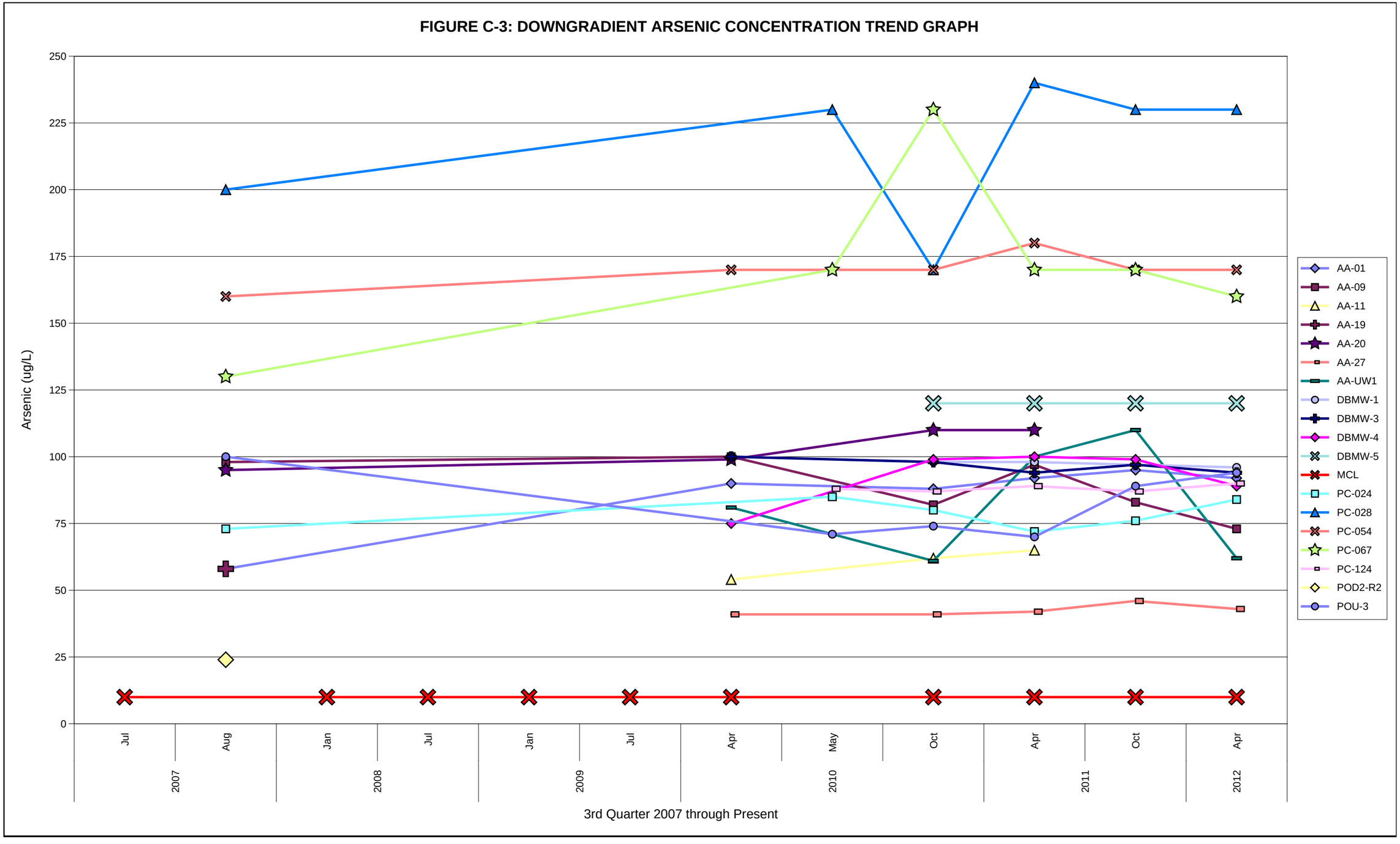


FIGURE C-3: DOWNGRADIENT ARSENIC CONCENTRATION TREND GRAPH
Arsenic (ug/L)
250
225
200
175
150
125
100
75
50
25
0
Jul
Aug
Jan
Jul
Jan
Jul
Apr
May
Oct
Apr
Oct
Apr
2007
2008
2009
2010
2011
2012
3rd Quarter 2007 through Present
AA-01
AA-09
AA-11
AA-19
AA-20
AA-27
AA-UW1
DBMW-1
DBMW-3
DBMW-4
DBMW-5
MCL
PC-024
PC-028
PC-054
PC-067
PC-124
POD2-R2
POU-3

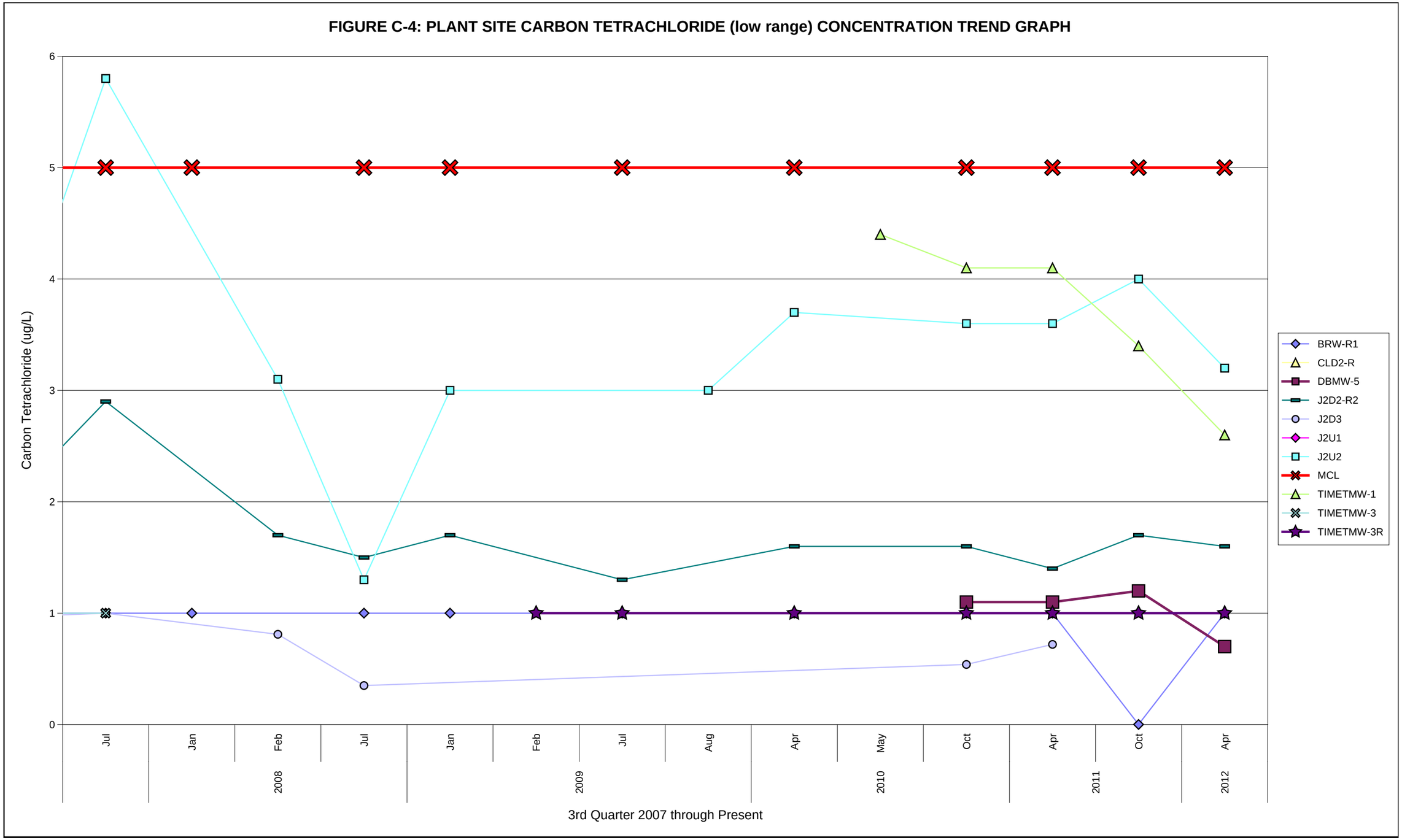


FIGURE C-4: PLANT SITE CARBON TETRACHLORIDE (low range) CONCENTRATION TREND GRAPH
Carbon Tetrachloride (ug/L)
6
5
4
3
2
1
0
Jul
Jan
Feb
Jul
Jan
Feb
Jul
Aug
Apr
May
Oct
Apr
Oct
Apr
2008
2009
2010
2011
2012
3rd Quarter 2007 through Present
BRW-R1
CLD2-R
DBMW-5
J2D2-R2
J2D3
J2U1
J2U2
MCL
TIMETMW-1
TIMETMW-3
TIMETMW-3R

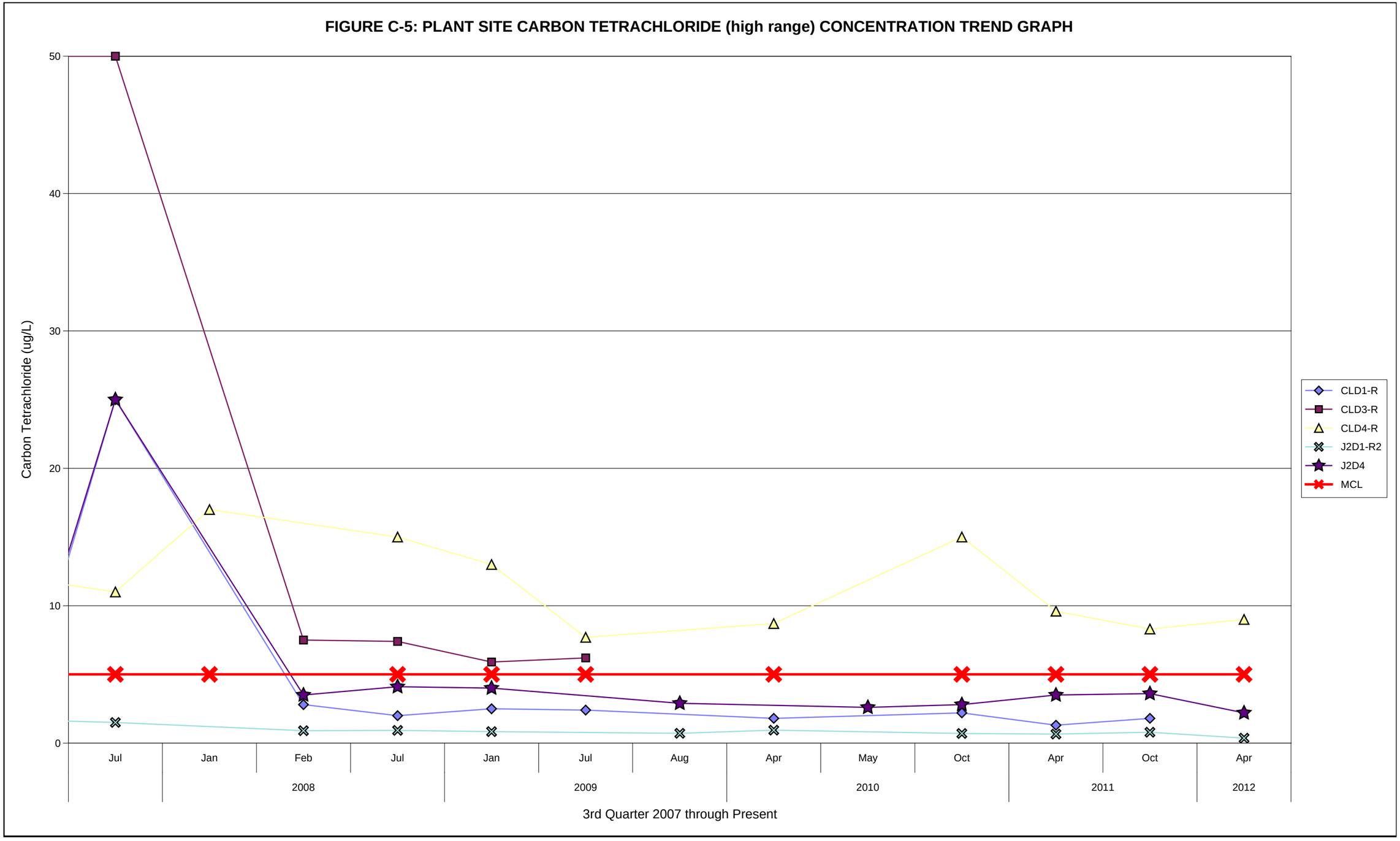


FIGURE C-5: PLANT SITE CARBON TETRACHLORIDE (high range) CONCENTRATION TREND GRAPH
Carbon Tetrachloride (ug/L)
50
40
30
20
10
0
Jul
Jan
Feb
Jul
Jan
Jul
Aug
Apr
May
Oct
Apr
Oct
Apr
2008
2009
2010
2011
2012
3rd Quarter 2007 through Present
CLD1-R
CLD3-R
CLD4-R
J2D1-R2
J2D4
MCL

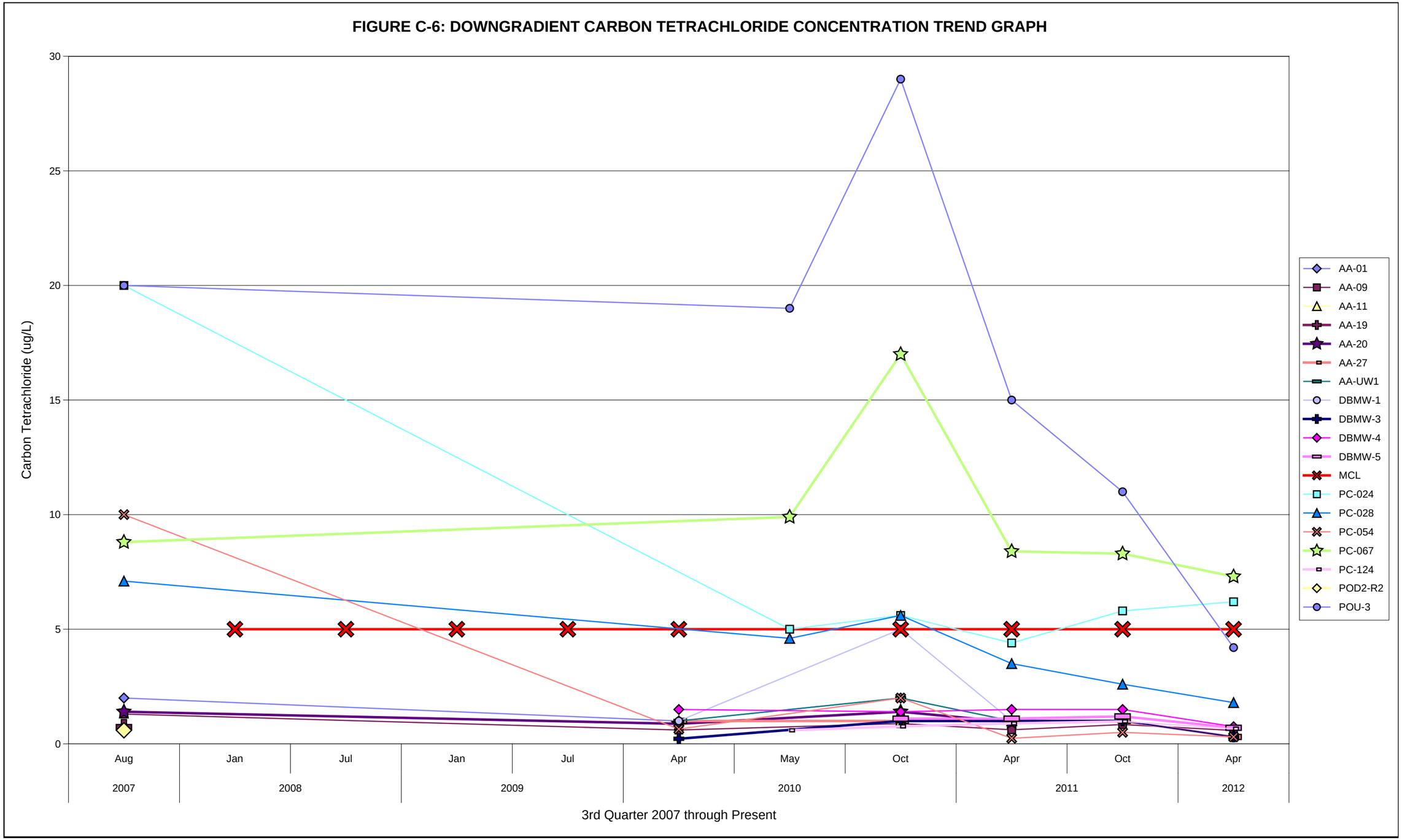


FIGURE C-6: DOWNGRADIENT CARBON TETRACHLORIDE CONCENTRATION TREND GRAPH
Carbon Tetrachloride (ug/L)
30
25
20
15
10
5
0
Aug
Jan
Jul
Jan
Jul
Apr
May
Oct
Apr
Oct
Apr
2007
2008
2009
2010
2011
2012
3rd Quarter 2007 through Present
AA-01
AA-09
AA-11
AA-19
AA-20
AA-27
AA-UW1
DBMW-1
DBMW-3
DBMW-4
DBMW-5
MCL
PC-024
PC-028
PC-054
PC-067
PC-124
POD2-R2
POU-3

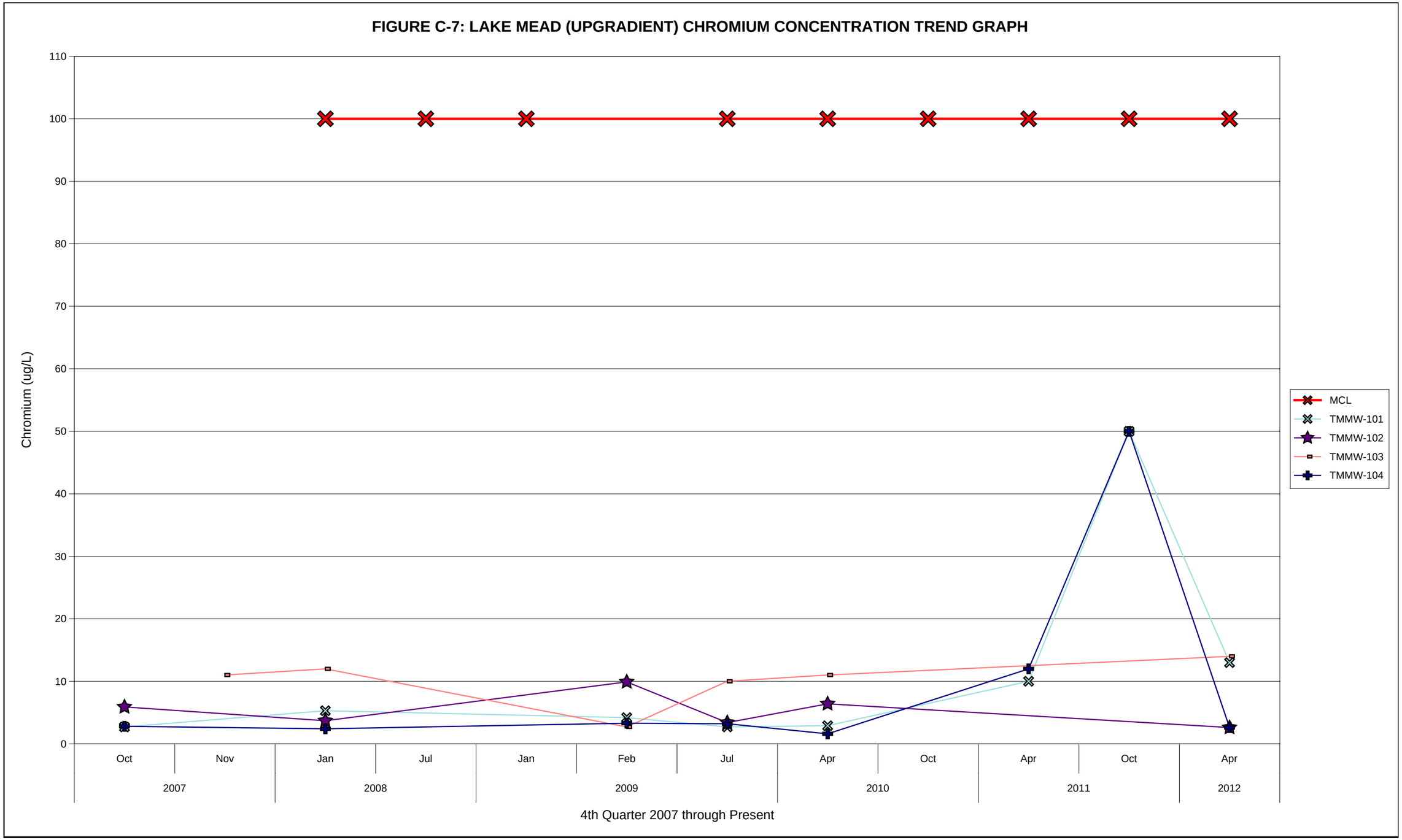


FIGURE C-7: LAKE MEAD (UPGRADIENT) CHROMIUM CONCENTRATION TREND GRAPH
Chromium (ug/L)
110
100
90
80
70
60
50
40
30
20
10
0
Oct
Nov
Jan
Jul
Jan
Feb
Jul
Apr
Oct
Apr
Oct
Apr
2007
2008
2009
2010
2011
2012
4th Quarter 2007 through Present
MCL
TMMW-101
TMMW-102
TMMW-103
TMMW-104

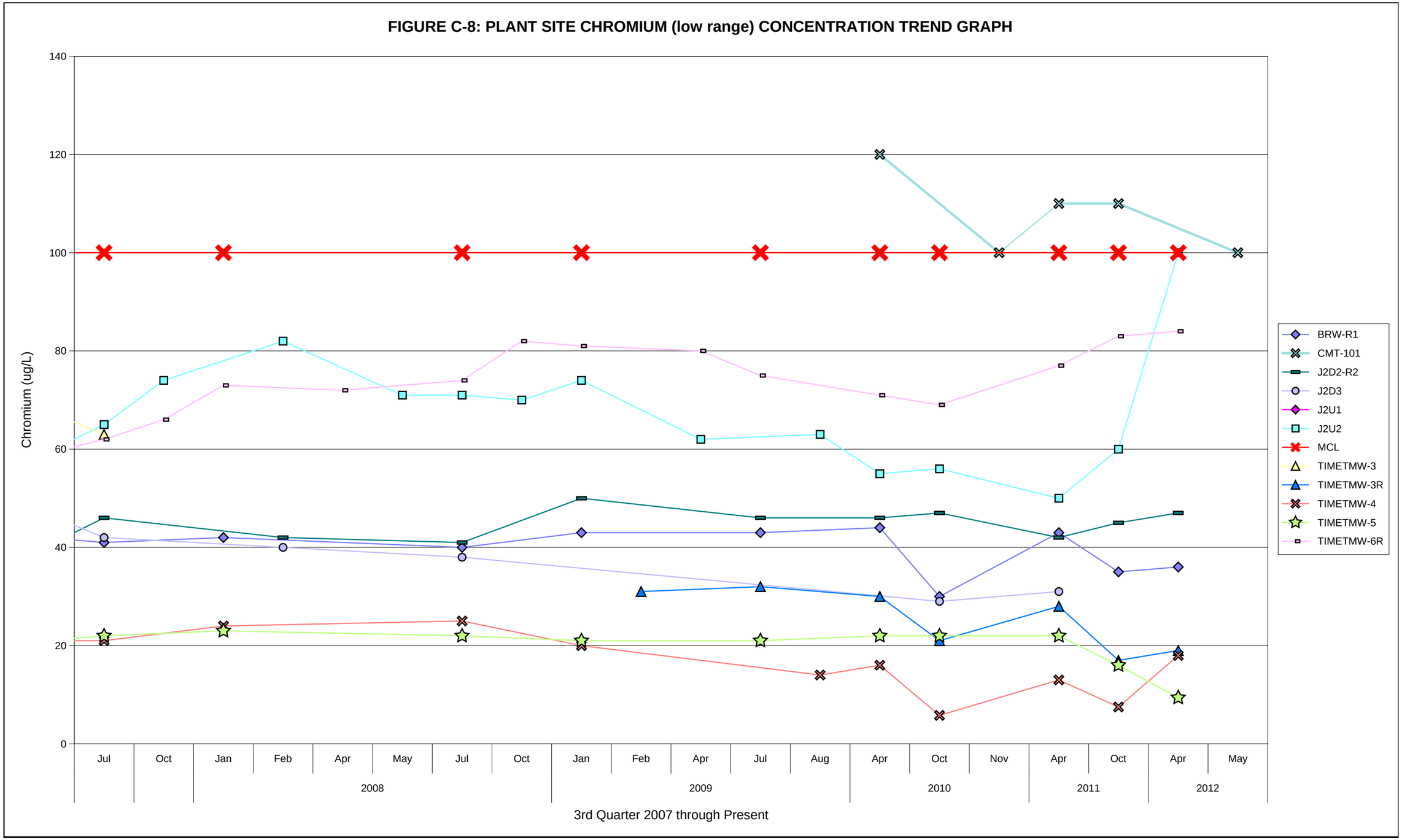


FIGURE C-8: PLANT SITE CHROMIUM (low range) CONCENTRATION TREND GRAPH
Chromium (ug/L)
140
120
100
80
60
40
20
0
Jul
Oct
Jan
Feb
Apr
May
Jul
Oct
Jan
Feb
Apr
Jul
Aug
Apr
Oct
Nov
Apr
Oct
Apr
May
2008
2009
2010
2011
2012
3rd Quarter 2007 through Present
BRW-R1
CMT-101
J2D2-R2
J2D3
J2U1
J2U2
MCL
TIMETMW-3
TIMETMW-3R
TIMETMW-4
TIMETMW-5
TIMETMW-6R

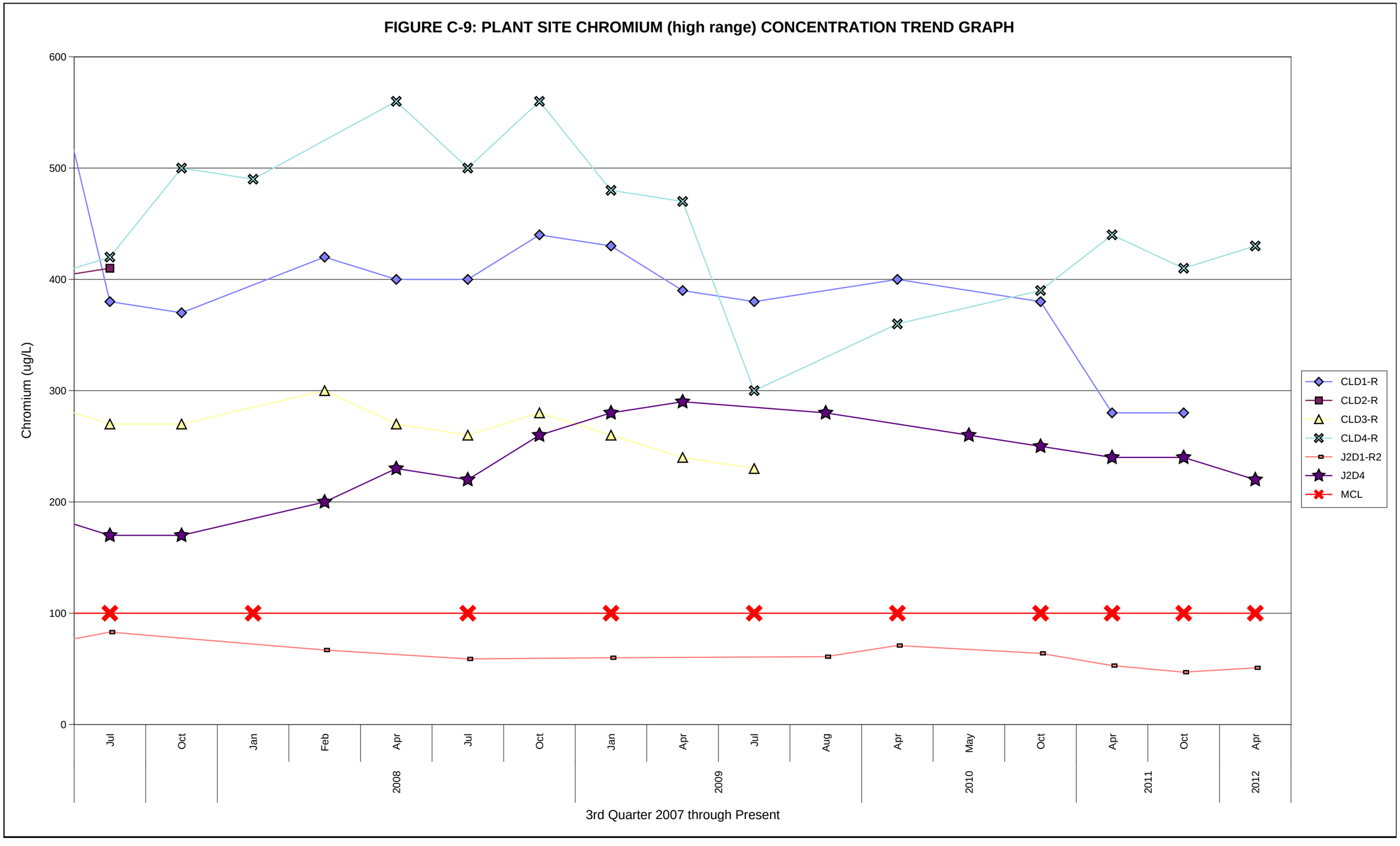


FIGURE C-9: PLANT SITE CHROMIUM (high range) CONCENTRATION TREND GRAPH
Chromium (ug/L)
600
500
400
300
200
100
0
Jul
Oct
Jan
Feb
Apr
Jul
Oct
Jan
Apr
Jul
Aug
Apr
May
Oct
Apr
Oct
Apr
2008
2009
2010
2011
2012
3rd Quarter 2007 through Present
CLD1-R
CLD2-R
CLD3-R
CLD4-R
J2D1-R2
J2D4
MCL

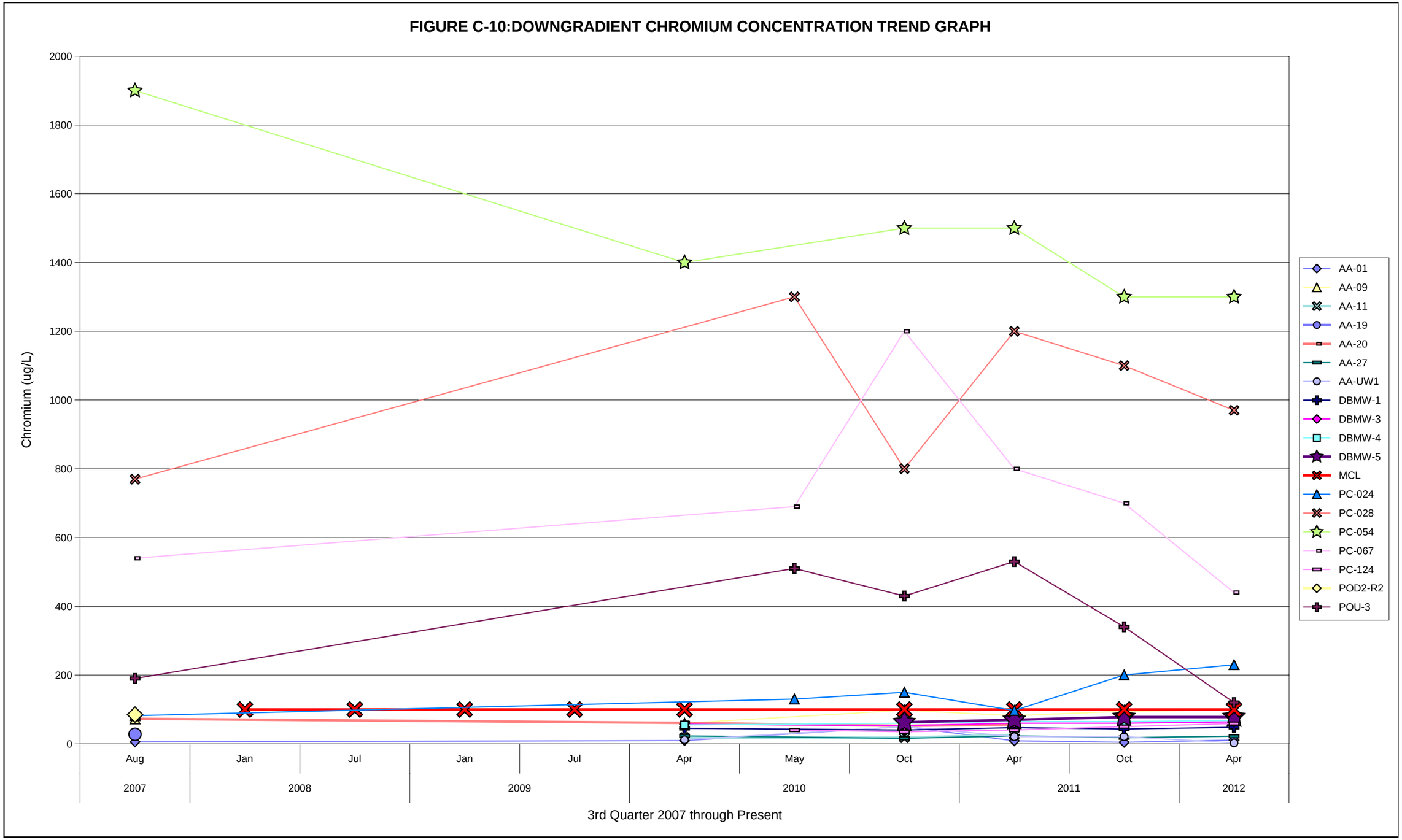


FIGURE C-10:DOWNGRADIENT CHROMIUM CONCENTRATION TREND GRAPH
Chromium (ug/L)
2000
1800
1600
1400
1200
1000
800
600
400
200
0
Aug
Jan
Jul
Jan
Jul
Apr
May
Oct
Apr
Oct
Apr
2007
2008
2009
2010
2011
2012
3rd Quarter 2007 through Present
AA-01
AA-09
AA-11
AA-19
AA-20
AA-27
AA-UW1
DBMW-1
DBMW-3
DBMW-4
DBMW-5
MCL
PC-024
PC-028
PC-054
PC-067
PC-124
POD2-R2
POU-3

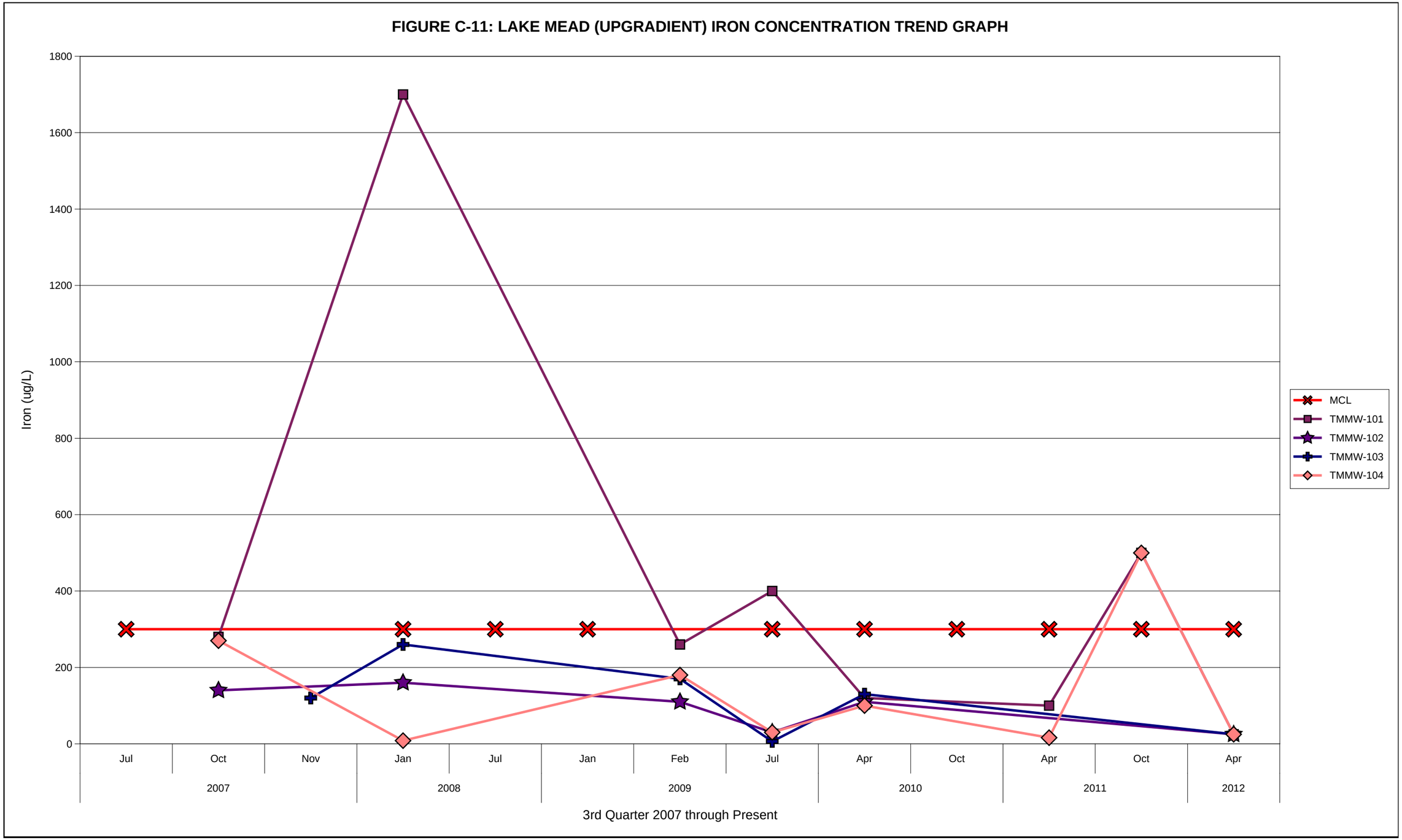


FIGURE C-11: LAKE MEAD (UPGRADIENT) IRON CONCENTRATION TREND GRAPH
Iron (ug/L)
1800
1600
1400
1200
1000
800
600
400
200
0
Jul
Oct
Nov
Jan
Jul
Jan
Feb
Jul
Apr
Oct
Apr
Oct
Apr
2007
2008
2009
2010
2011
2012
3rd Quarter 2007 through Present
MCL
TMMW-101
TMMW-102
TMMW-103
TMMW-104

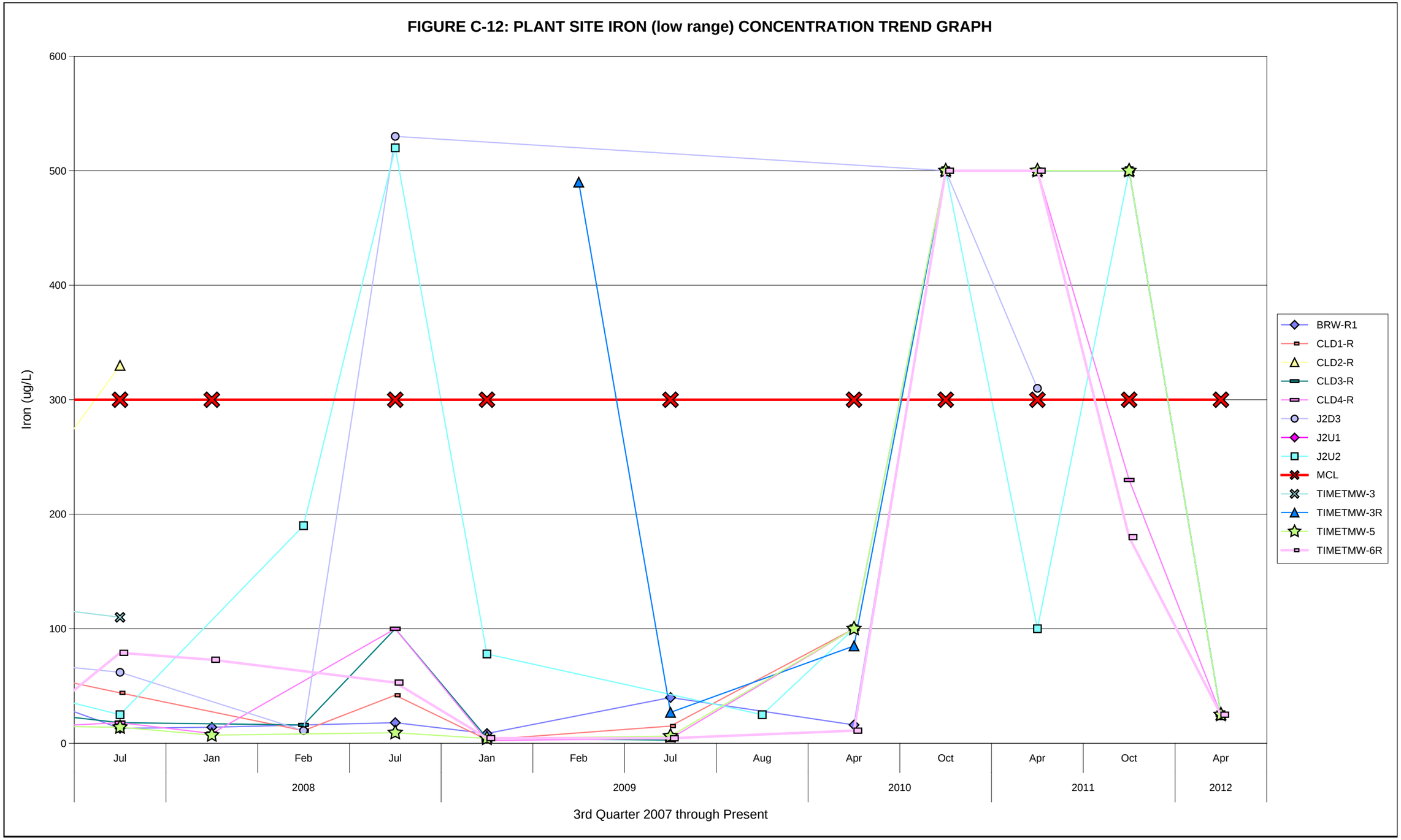


FIGURE C-12: PLANT SITE IRON (low range) CONCENTRATION TREND GRAPH
Iron (ug/L)
600
500
400
300
200
100
0
Jul
Jan
Feb
Jul
Jan
Feb
Jul
Aug
Apr
Oct
Apr
Oct
Apr
2008
2009
2010
2011
2012
3rd Quarter 2007 through Present
BRW-R1
CLD1-R
CLD2-R
CLD3-R
CLD4-R
J2D3
J2U1
J2U2
MCL
TIMETMW-3
TIMETMW-3R
TIMETMW-5
TIMETMW-6R

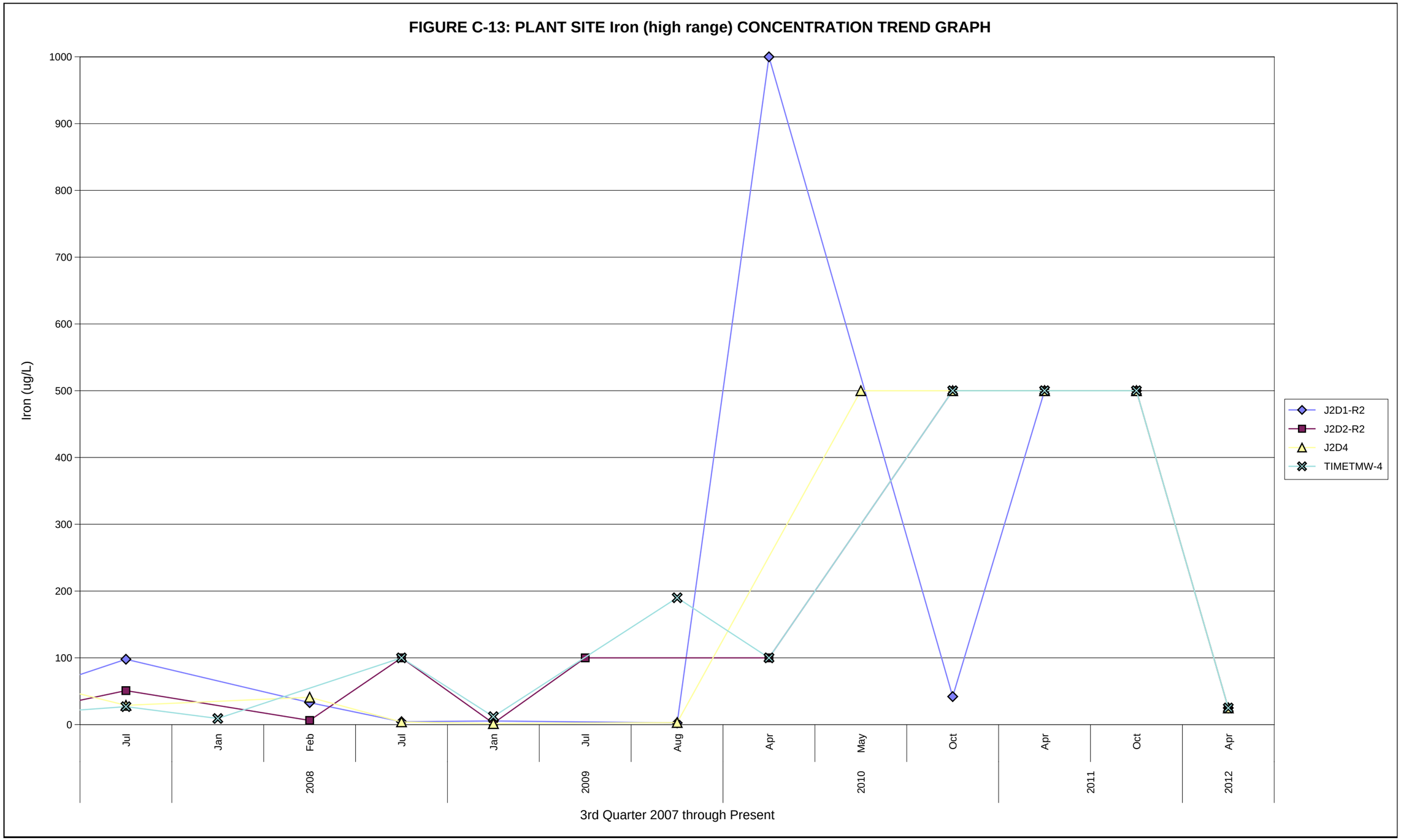


FIGURE C-13: PLANT SITE Iron (high range) CONCENTRATION TREND GRAPH
Iron (ug/L)
1000
900
800
700
600
500
400
300
200
100
0
Jul
Jan
Feb
Jul
Jan
Jul
Aug
Apr
May
Oct
Apr
Oct
Apr
2008
2009
2010
2011
2012
3rd Quarter 2007 through Present
J2D1-R2
J2D2-R2
J2D4
TIMETMW-4

MCL = 300 ug/L

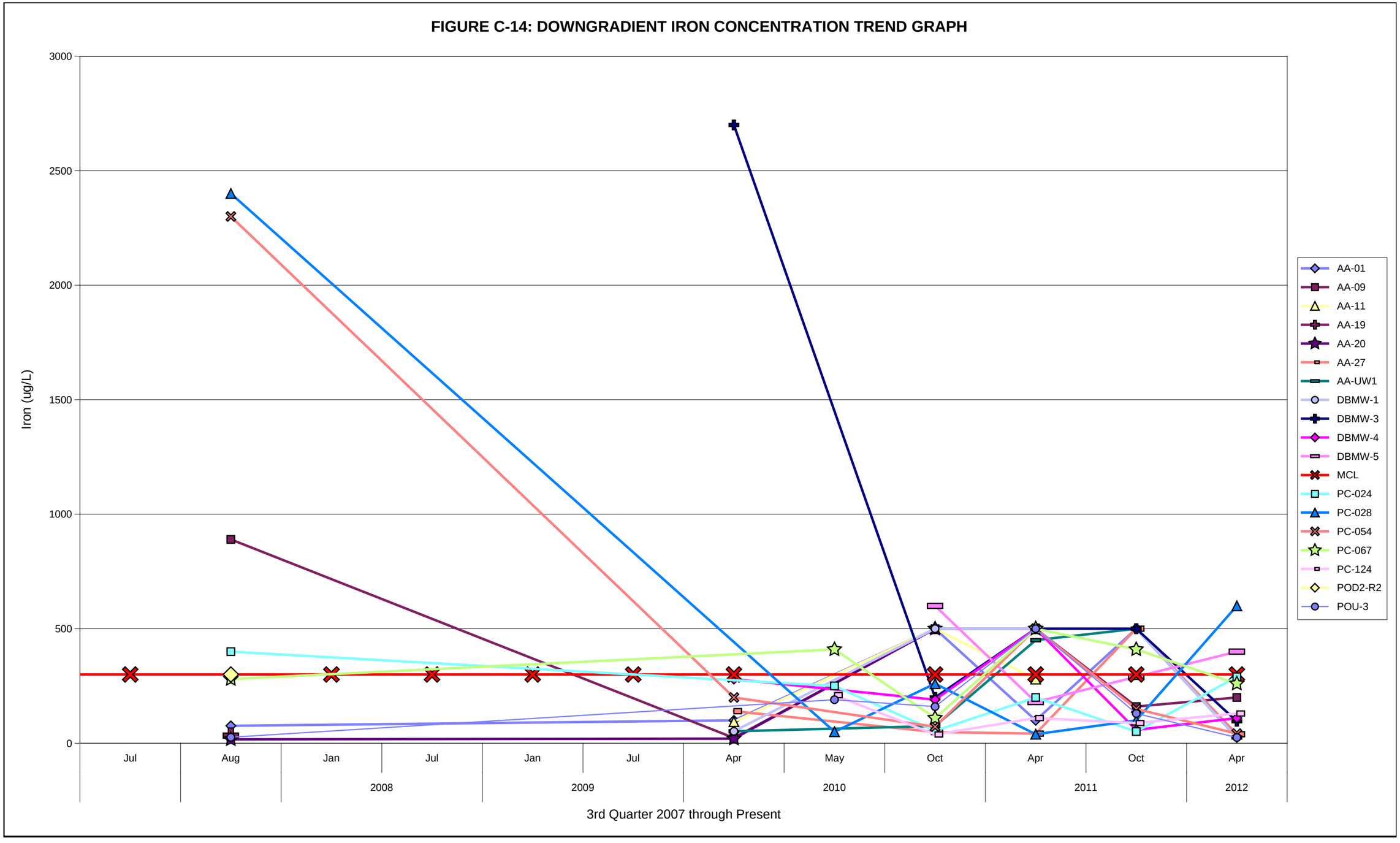


FIGURE C-14: DOWNGRADIENT IRON CONCENTRATION TREND GRAPH
Iron (ug/L)
3000
2500
2000
1500
1000
500
0
Jul
Aug
Jan
Jul
Jan
Jul
Apr
May
Oct
Apr
Oct
Apr
2008
2009
2010
2011
2012
3rd Quarter 2007 through Present
AA-01
AA-09
AA-11
AA-19
AA-20
AA-27
AA-UW1
DBMW-1
DBMW-3
DBMW-4
DBMW-5
MCL
PC-024
PC-028
PC-054
PC-067
PC-124
POD2-R2
POU-3

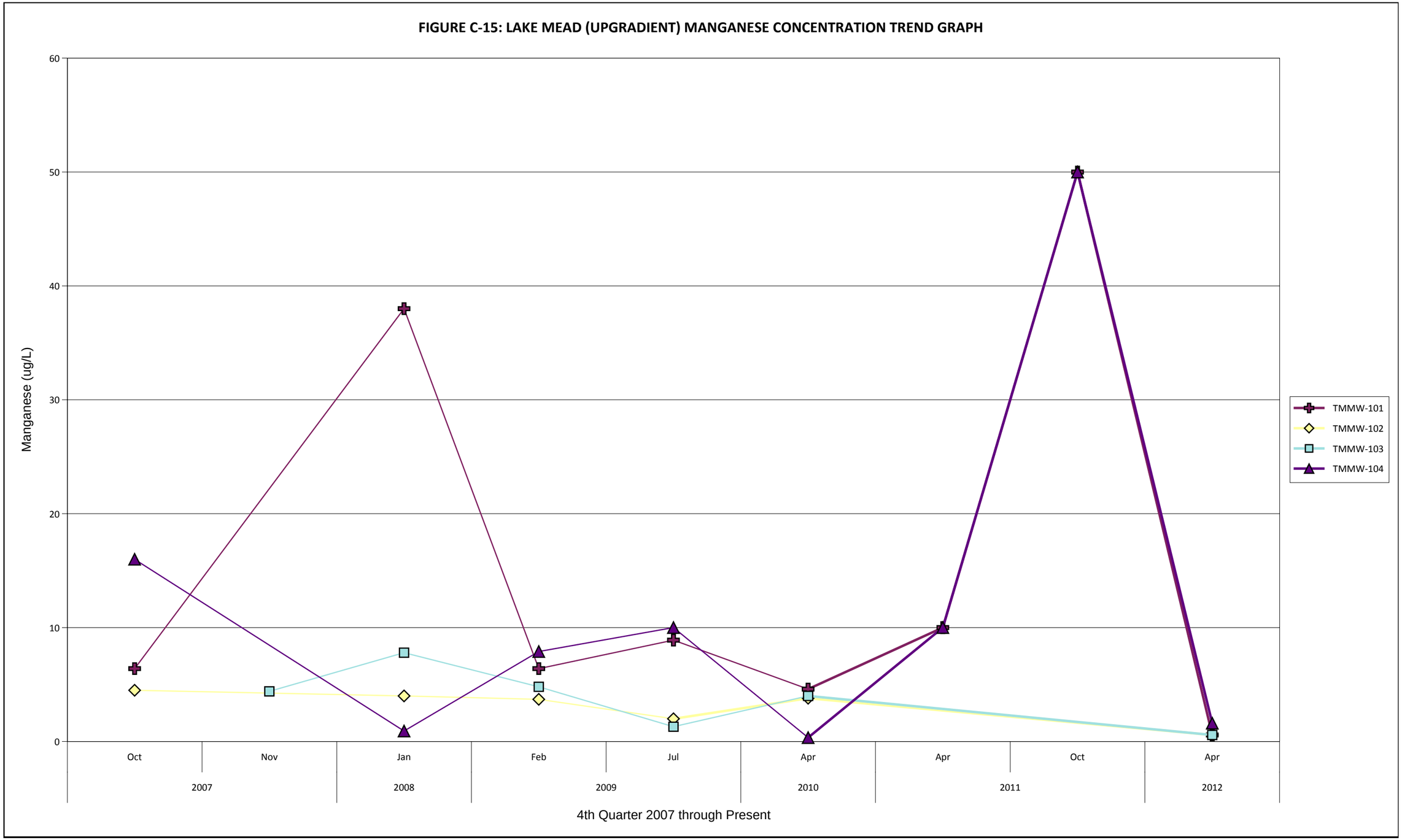


FIGURE C-15: LAKE MEAD (UPGRADIENT) MANGANESE CONCENTRATION TREND GRAPH
Manganese (ug/L)
60
50
40
30
20
10
0
Oct
Nov
Jan
Feb
Jul
Apr
Apr
Oct
Apr
2007
2008
2009
2010
2011
2012
4th Quarter 2007 through Present
TMMW-101
TMMW-102
TMMW-103
TMMW-104

MCL = 50 ug/L

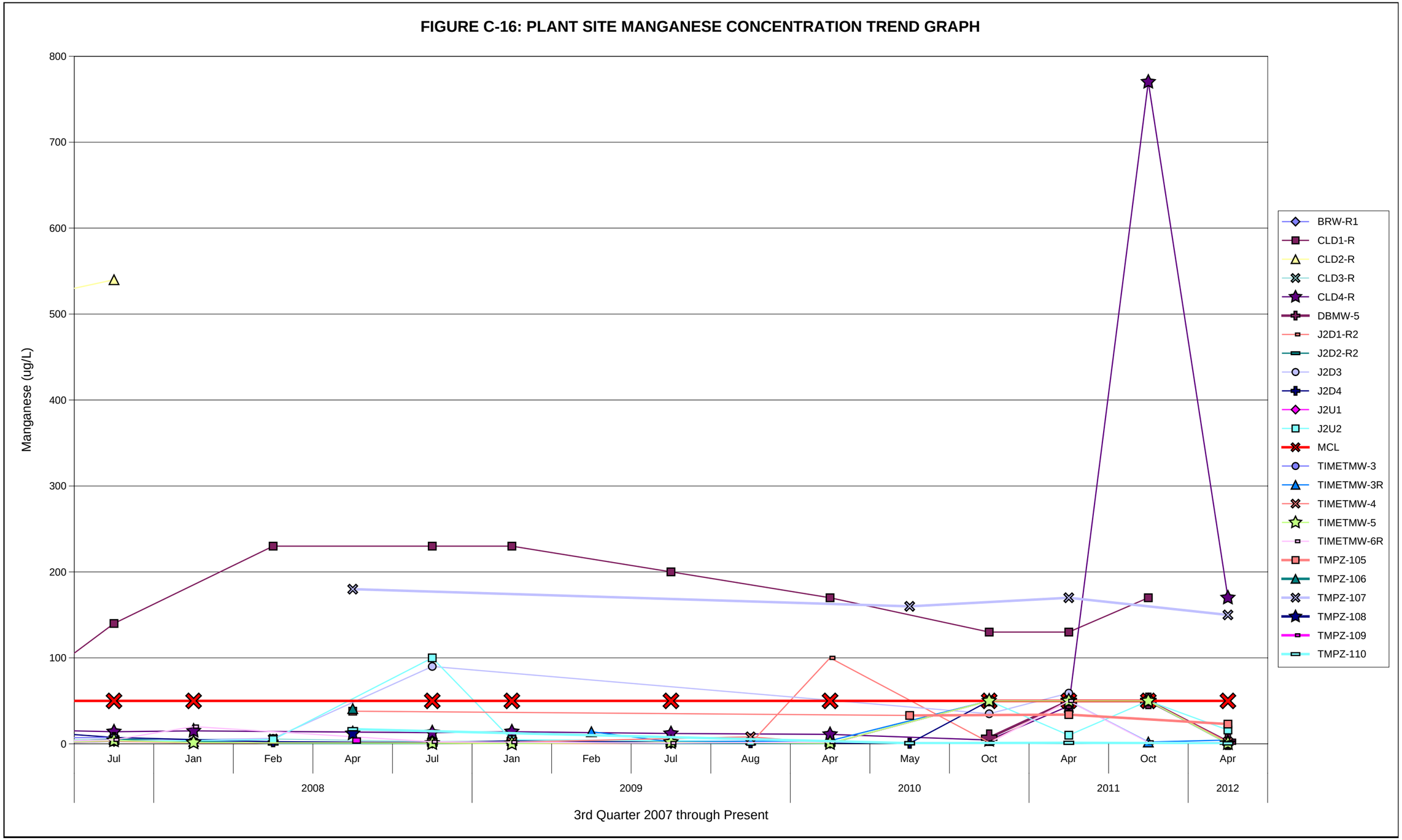


FIGURE C-16: PLANT SITE MANGANESE CONCENTRATION TREND GRAPH
Manganese (ug/L)
800
700
600
500
400
300
200
100
0
Jul
Jan
Feb
Apr
Jul
Jan
Feb
Jul
Aug
Apr
May
Oct
Apr
Oct
Apr
2008
2009
2010
2011
2012
3rd Quarter 2007 through Present
BRW-R1
CLD1-R
CLD2-R
CLD3-R
CLD4-R
DBMW-5
J2D1-R2
J2D2-R2
J2D3
J2D4
J2U1
J2U2
MCL
TIMETMW-3
TIMETMW-3R
TIMETMW-4
TIMETMW-5
TIMETMW-6R
TMPZ-105
TMPZ-106
TMPZ-107
TMPZ-108
TMPZ-109
TMPZ-110

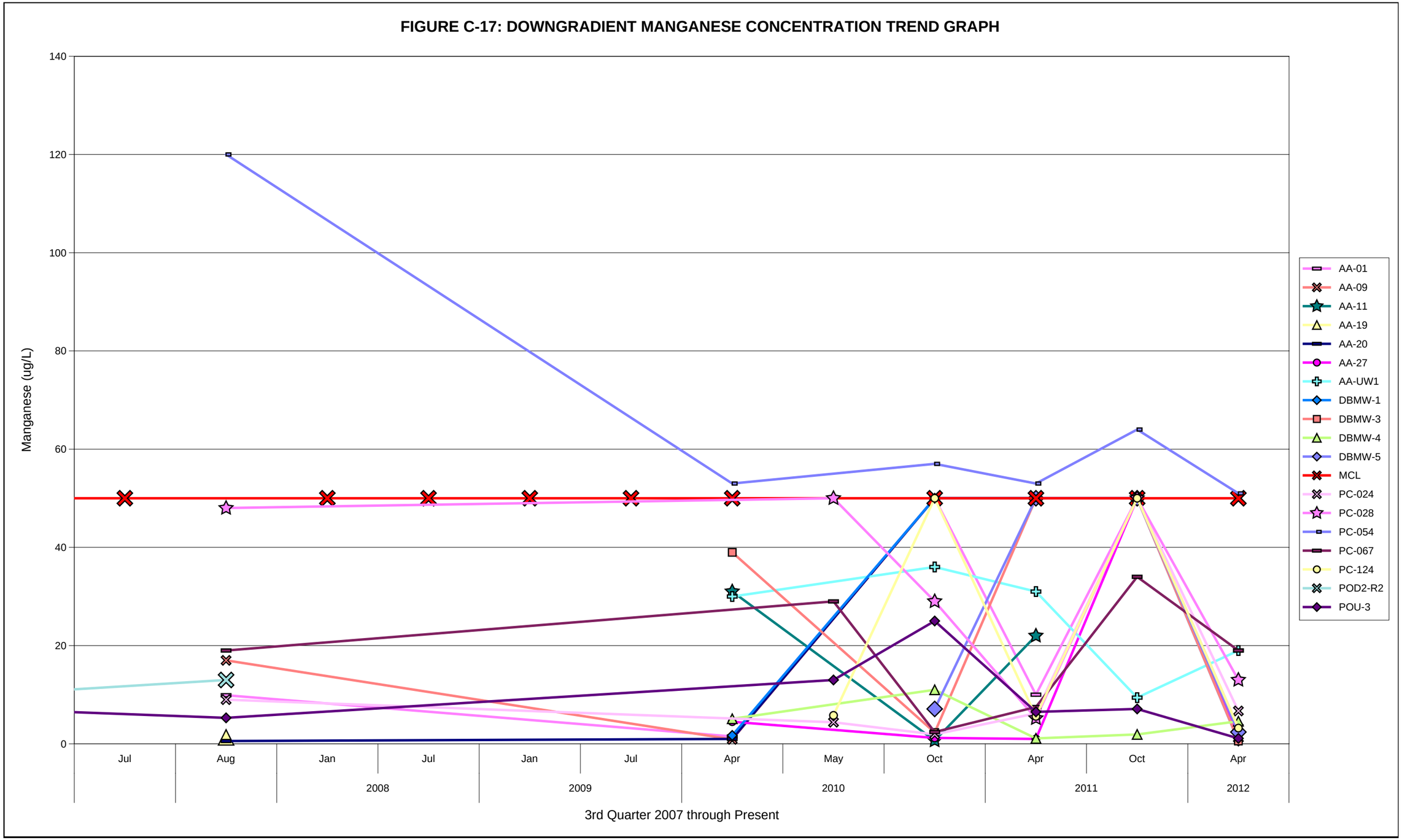


FIGURE C-17: DOWNGRADIENT MANGANESE CONCENTRATION TREND GRAPH
Manganese (ug/L)
140
120
100
80
60
40
20
0
Jul
Aug
Jan
Jul
Jan
Jul
Apr
May
Oct
Apr
Oct
Apr
2008
2009
2010
2011
2012
3rd Quarter 2007 through Present
AA-01
AA-09
AA-11
AA-19
AA-20
AA-27
AA-UW1
DBMW-1
DBMW-3
DBMW-4
DBMW-5
MCL
PC-024
PC-028
PC-054
PC-067
PC-124
POD2-R2
POU-3

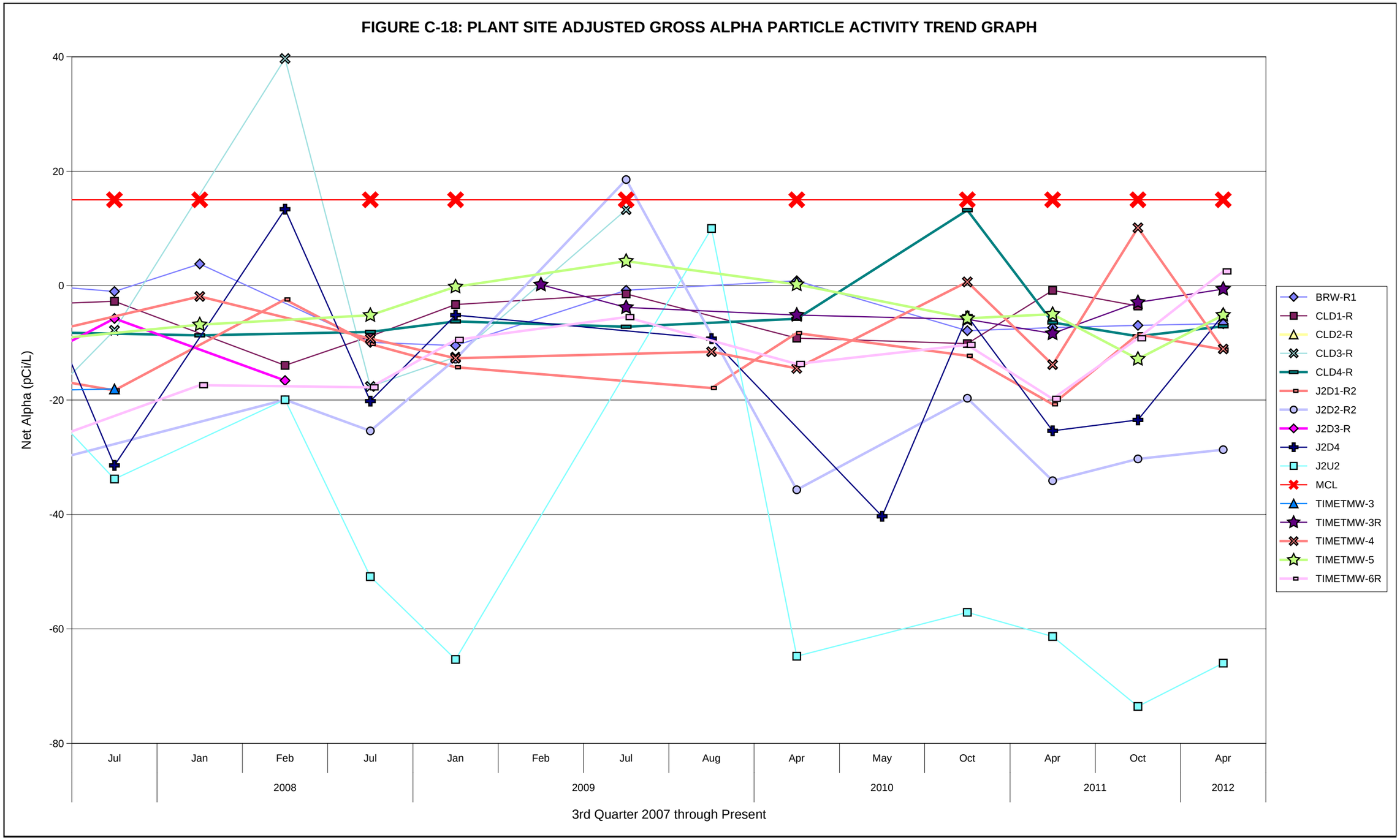


FIGURE C-18: PLANT SITE ADJUSTED GROSS ALPHA PARTICLE ACTIVITY TREND GRAPH
Net Alpha (pCi/L)
40
20
0
-20
-40
-60
-80
Jul
Jan
Feb
Jul
Jan
Feb
Jul
Aug
Apr
May
Oct
Apr
Oct
Apr
2008
2009
2010
2011
2012
3rd Quarter 2007 through Present
BRW-R1
CLD1-R
CLD2-R
CLD3-R
CLD4-R
J2D1-R2
J2D2-R2
J2D3-R
J2D4
J2U2
MCL
TIMETMW-3
TIMETMW-3R
TIMETMW-4
TIMETMW-5
TIMETMW-6R

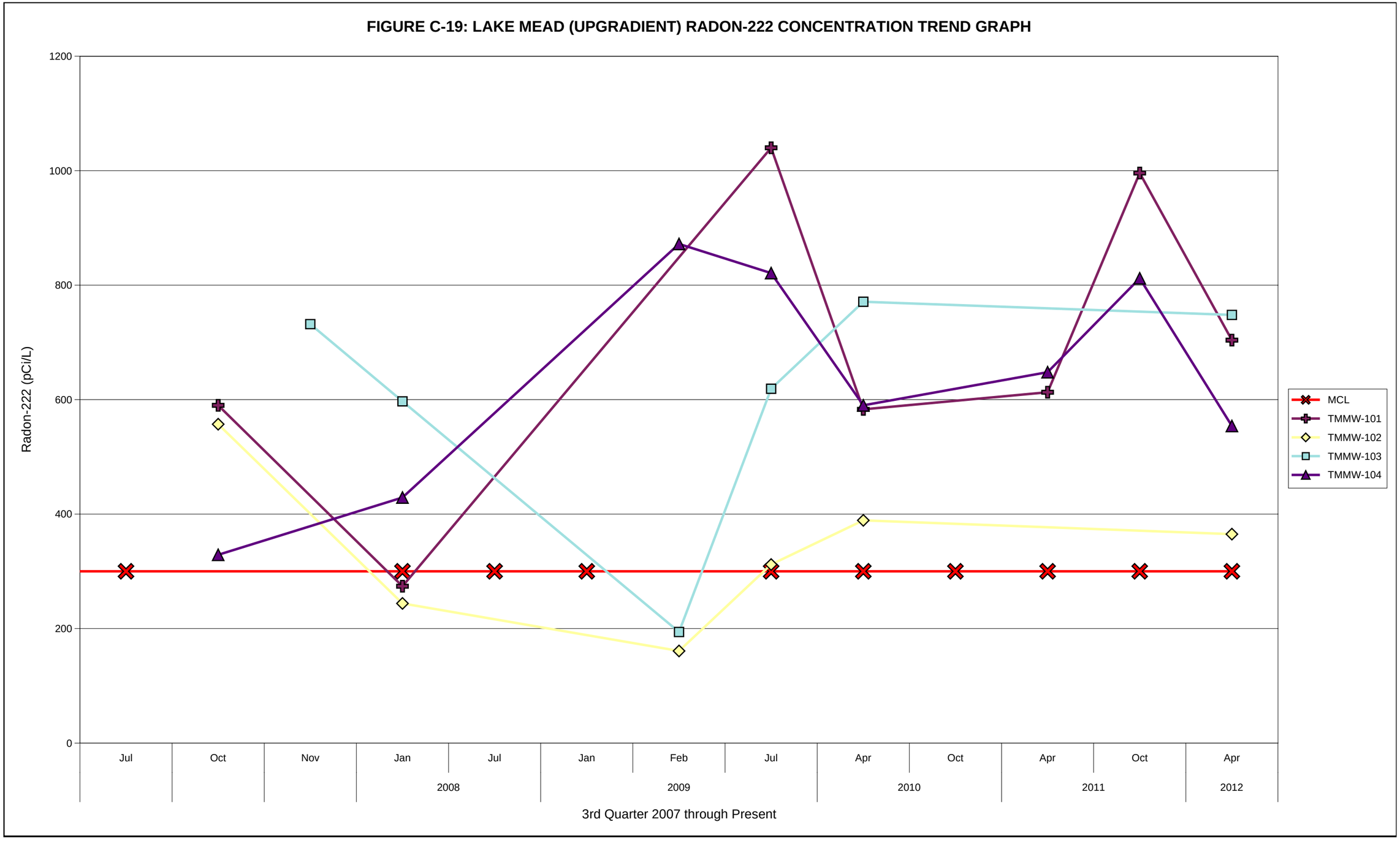


FIGURE C-19: LAKE MEAD (UPGRADIENT) RADON-222 CONCENTRATION TREND GRAPH
Radon-222 (pCi/L)
1200
1000
800
600
400
200
0
Jul
Oct
Nov
Jan
Jul
Jan
Feb
Jul
Apr
Oct
Apr
Oct
Apr
2008
2009
2010
2011
2012
3rd Quarter 2007 through Present
MCL
TMMW-101
TMMW-102
TMMW-103
TMMW-104

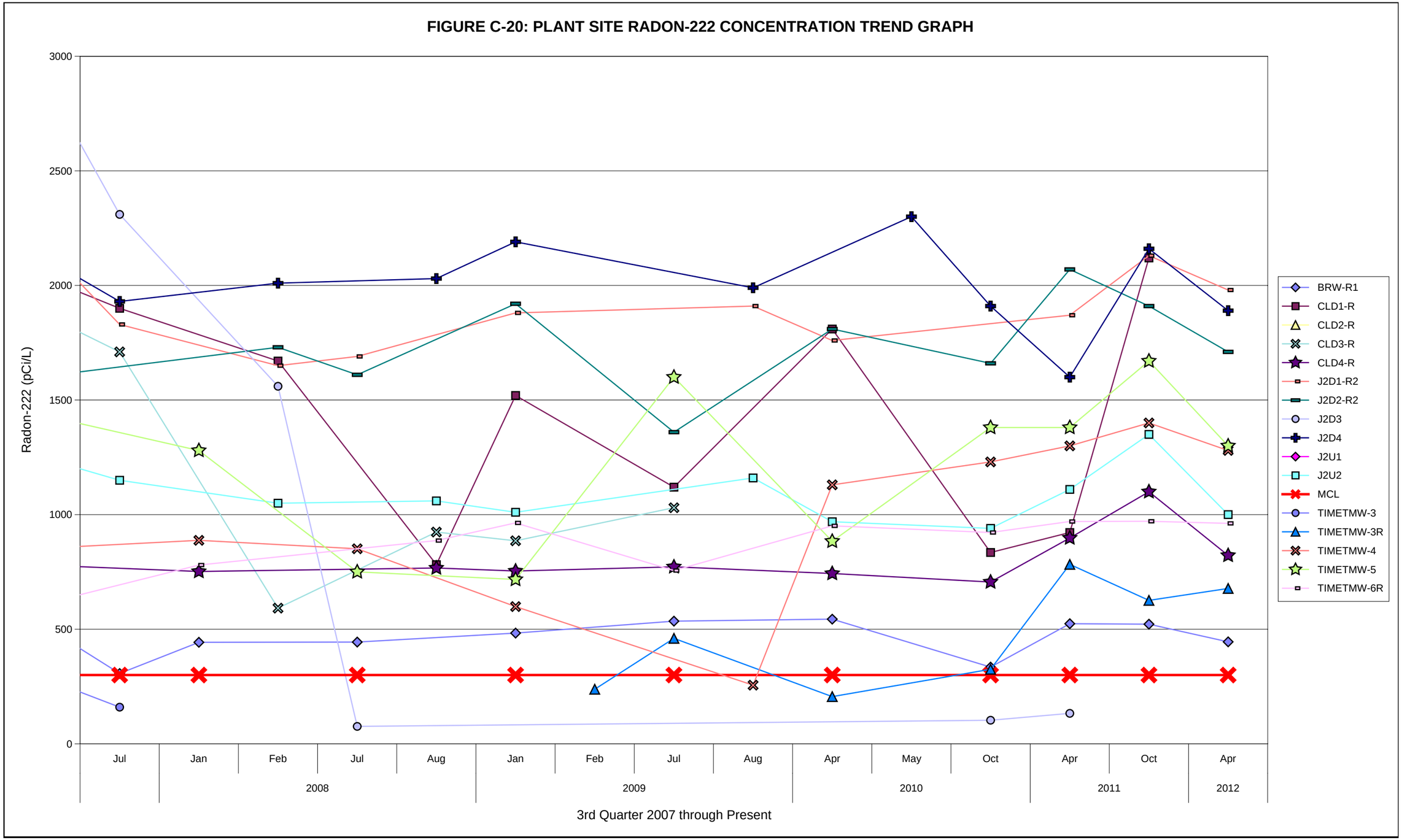
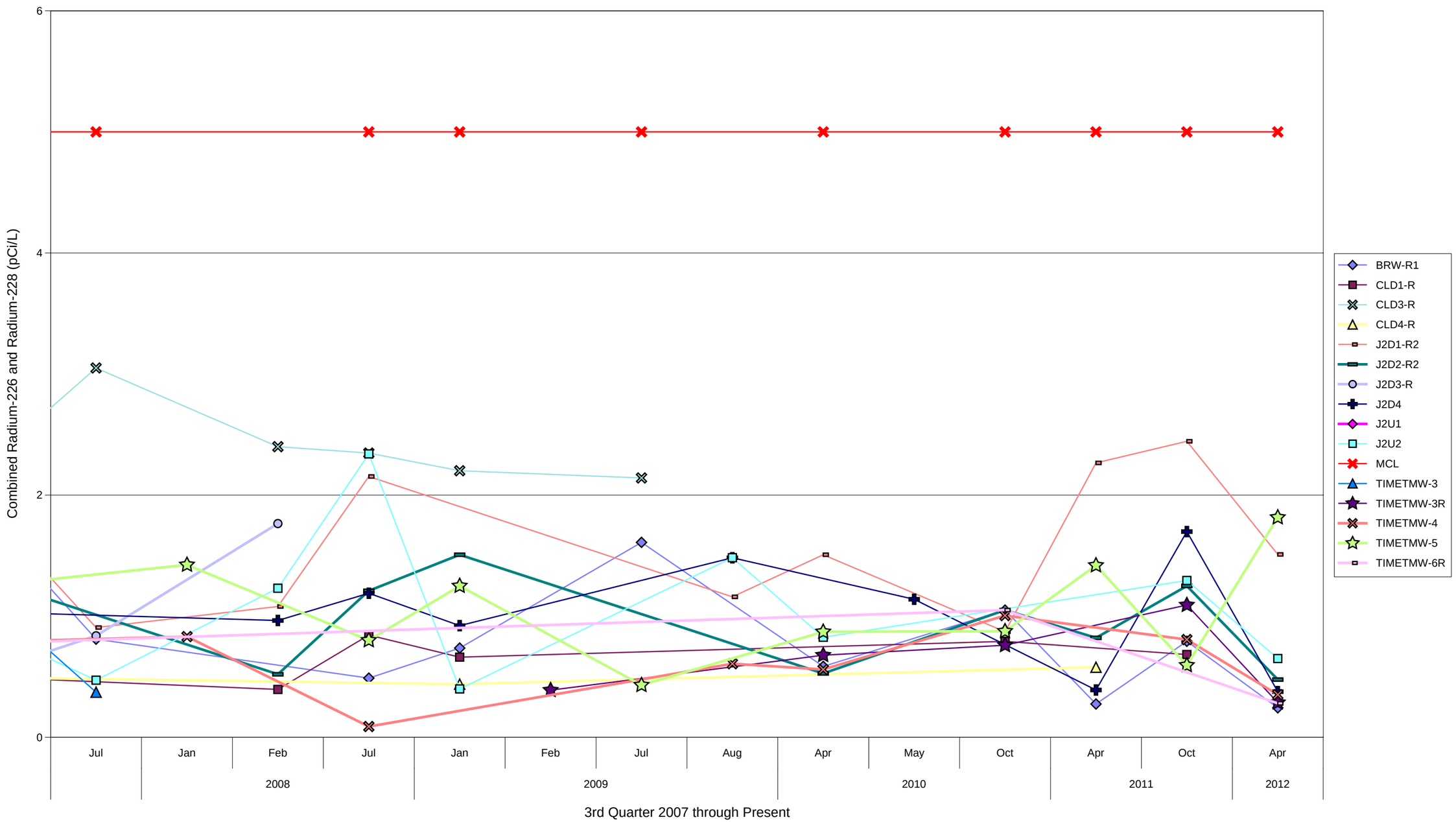


FIGURE C-20: PLANT SITE RADON-222 CONCENTRATION TREND GRAPH
Radon-222 (pCi/L)
3000
2500
2000
1500
1000
500
0
Jul
Jan
Feb
Jul
Aug
Jan
Feb
Jul
Aug
Apr
May
Oct
Apr
Oct
Apr
2008
2009
2010
2011
2012
3rd Quarter 2007 through Present
BRW-R1
CLD1-R
CLD2-R
CLD3-R
CLD4-R
J2D1-R2
J2D2-R2
J2D3
J2D4
J2U1
J2U2
MCL
TIMETMW-3
TIMETMW-3R
TIMETMW-4
TIMETMW-5
TIMETMW-6R

FIGURE C-21: PLANT SITE COMBINED RADIUM-226 AND RADIUM-228 ACTIVITY TREND GRAPH



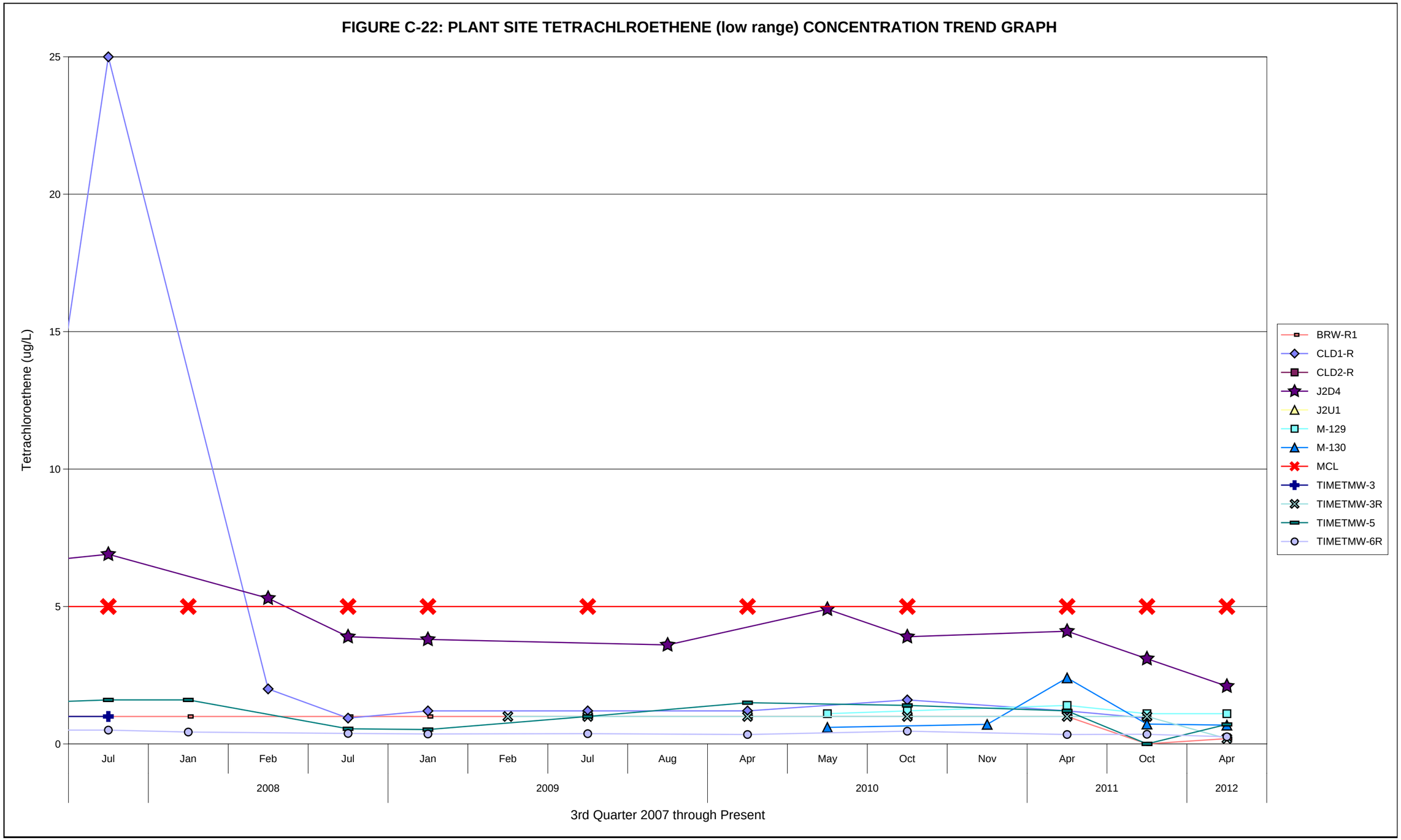


FIGURE C-22: PLANT SITE TETRACHLROETHENE (low range) CONCENTRATION TREND GRAPH
Tetrachloroethene (ug/L)
25
20
15
10
5
0
Jul
Jan
Feb
Jul
Jan
Feb
Jul
Aug
Apr
May
Oct
Nov
Apr
Oct
Apr
2008
2009
2010
2011
2012
3rd Quarter 2007 through Present
BRW-R1
CLD1-R
CLD2-R
J2D4
J2U1
M-129
M-130
MCL
TIMETMW-3
TIMETMW-3R
TIMETMW-5
TIMETMW-6R

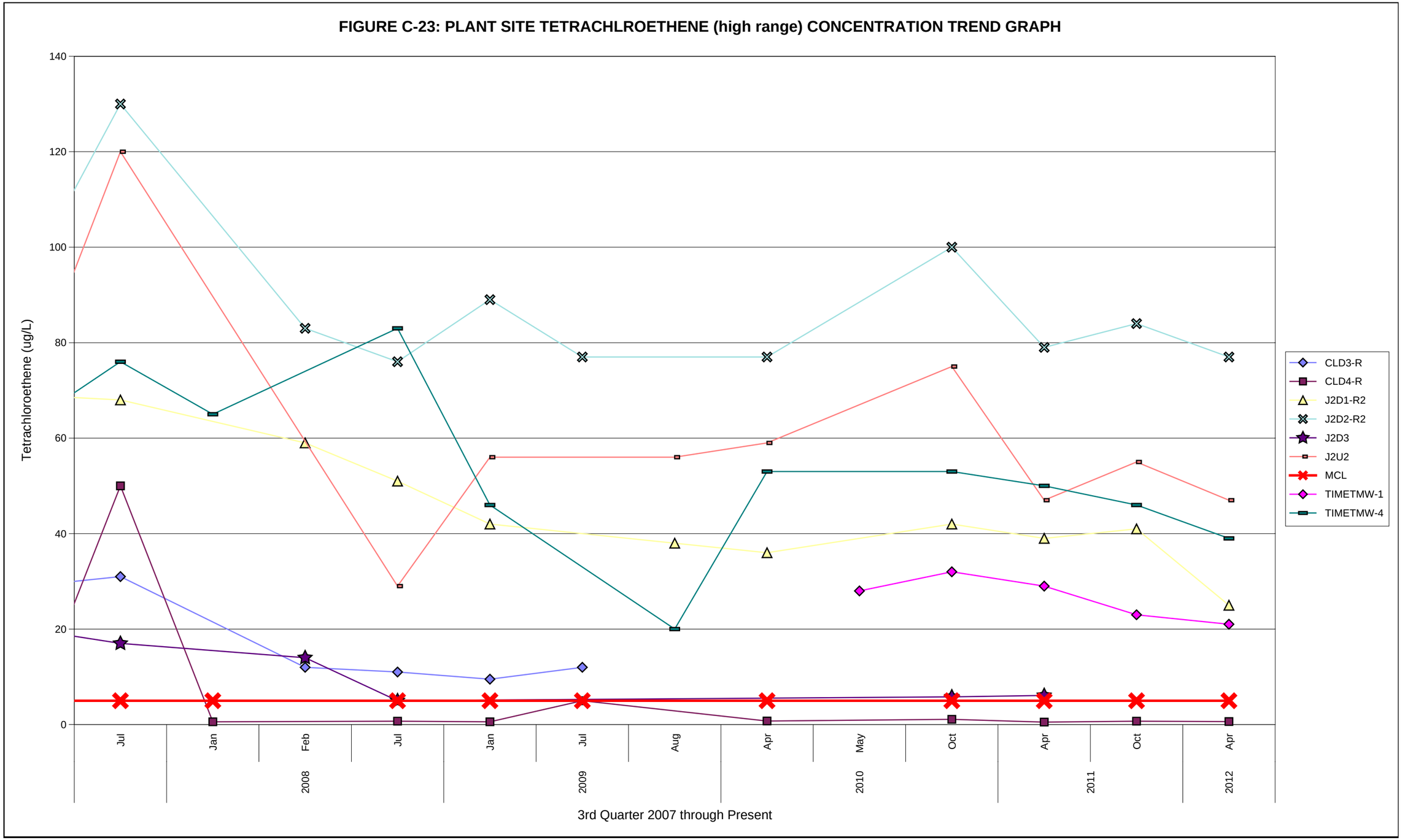


FIGURE C-23: PLANT SITE TETRACHLROETHENE (high range) CONCENTRATION TREND GRAPH
Tetrachloroethene (ug/L)
140
120
100
80
60
40
20
0
Jul
Jan
Feb
Jul
Jan
Jul
Aug
Apr
May
Oct
Apr
Oct
Apr
2008
2009
2010
2011
2012
3rd Quarter 2007 through Present
CLD3-R
CLD4-R
J2D1-R2
J2D2-R2
J2D3
J2U2
MCL
TIMETMW-1
TIMETMW-4

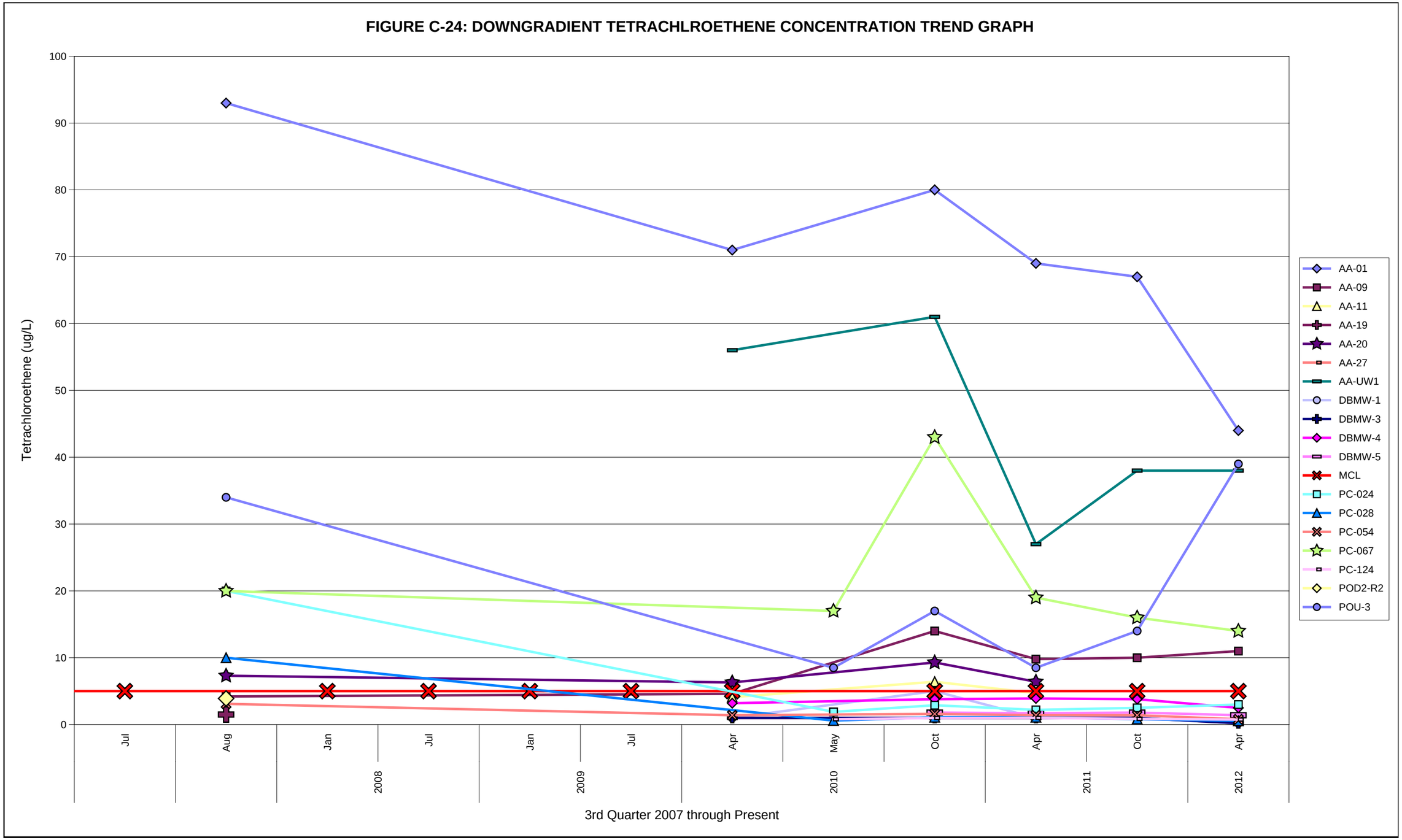


FIGURE C-24: DOWNGRADIENT TETRACHLROETHENE CONCENTRATION TREND GRAPH
Tetrachloroethene (ug/L)
100
90
80
70
60
50
40
30
20
10
0
Jul
Aug
Jan
Jul
Jan
Jul
Apr
May
Oct
Apr
Oct
Apr
2008
2009
2010
2011
2012
3rd Quarter 2007 through Present
AA-01
AA-09
AA-11
AA-19
AA-20
AA-27
AA-UW1
DBMW-1
DBMW-3
DBMW-4
DBMW-5
MCL
PC-024
PC-028
PC-054
PC-067
PC-124
POD2-R2
POU-3

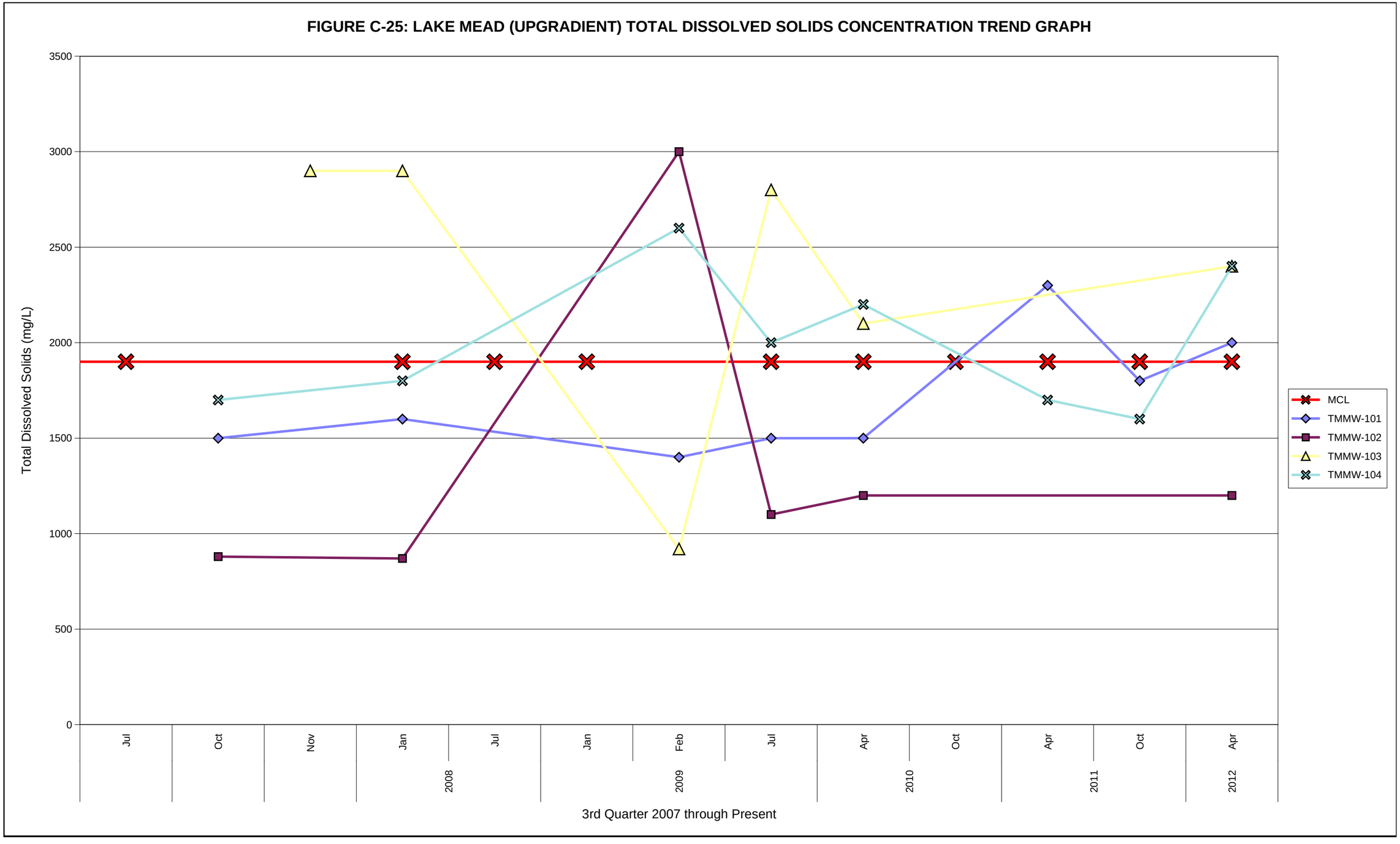


FIGURE C-25: LAKE MEAD (UPGRADIENT) TOTAL DISSOLVED SOLIDS CONCENTRATION TREND GRAPH
Total Dissolved Solids (mg/L)
3500
3000
2500
2000
1500
1000
500
0
Jul
Oct
Nov
Jan
Jul
Jan
Feb
Jul
Apr
Oct
Apr
Oct
Apr
2008
2009
2010
2011
2012
3rd Quarter 2007 through Present
MCL
TMMW-101
TMMW-102
TMMW-103
TMMW-104

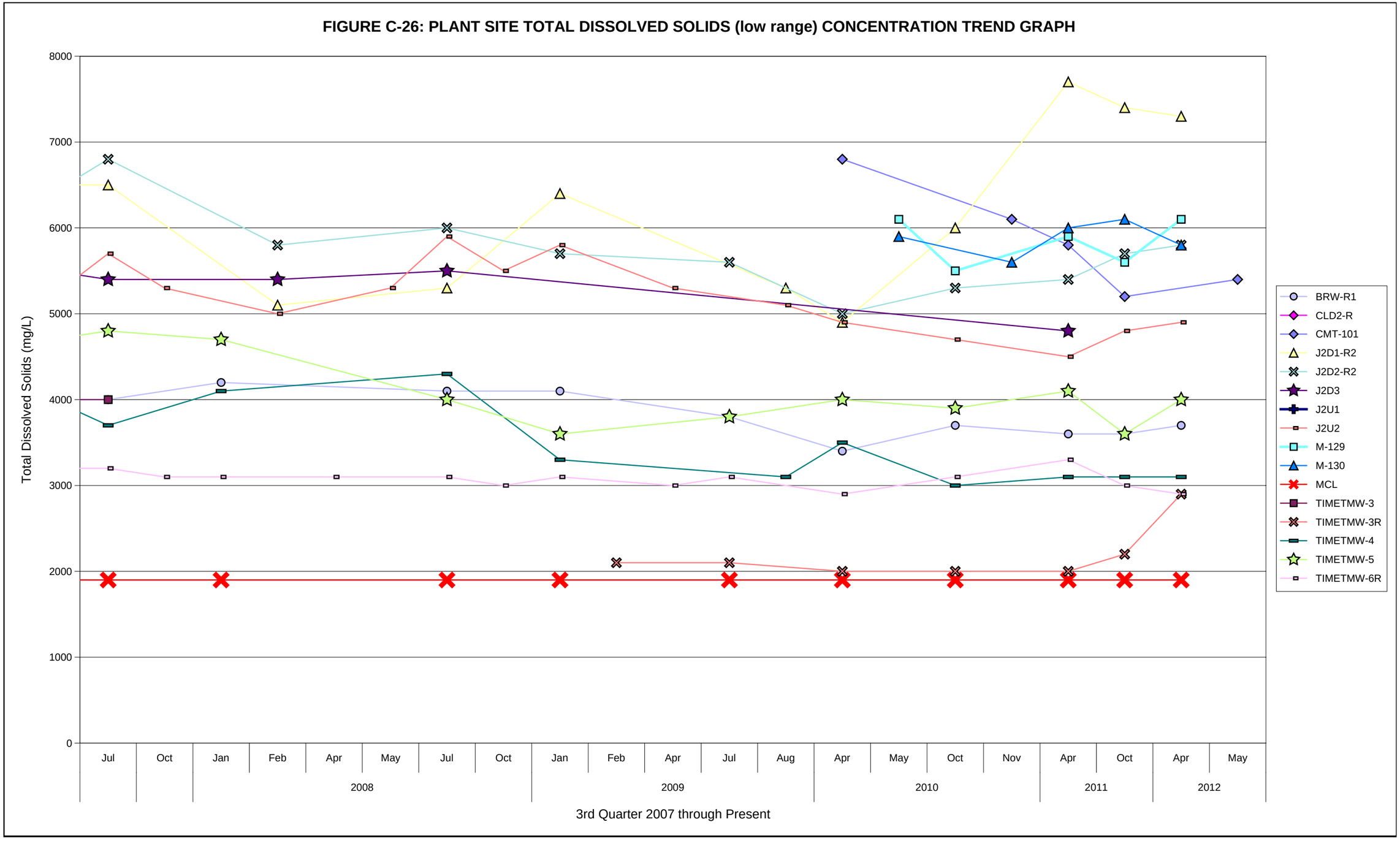


FIGURE C-26: PLANT SITE TOTAL DISSOLVED SOLIDS (low range) CONCENTRATION TREND GRAPH
Total Dissolved Solids (mg/L)
8000
7000
6000
5000
4000
3000
2000
1000
0
Jul
Oct
Jan
Feb
Apr
May
Jul
Oct
Jan
Feb
Apr
Jul
Aug
Apr
May
Oct
Nov
Apr
Oct
Apr
May
2008
2009
2010
2011
2012
3rd Quarter 2007 through Present
BRW-R1
CLD2-R
CMT-101
J2D1-R2
J2D2-R2
J2D3
J2U1
J2U2
M-129
M-130
MCL
TIMETMW-3
TIMETMW-3R
TIMETMW-4
TIMETMW-5
TIMETMW-6R

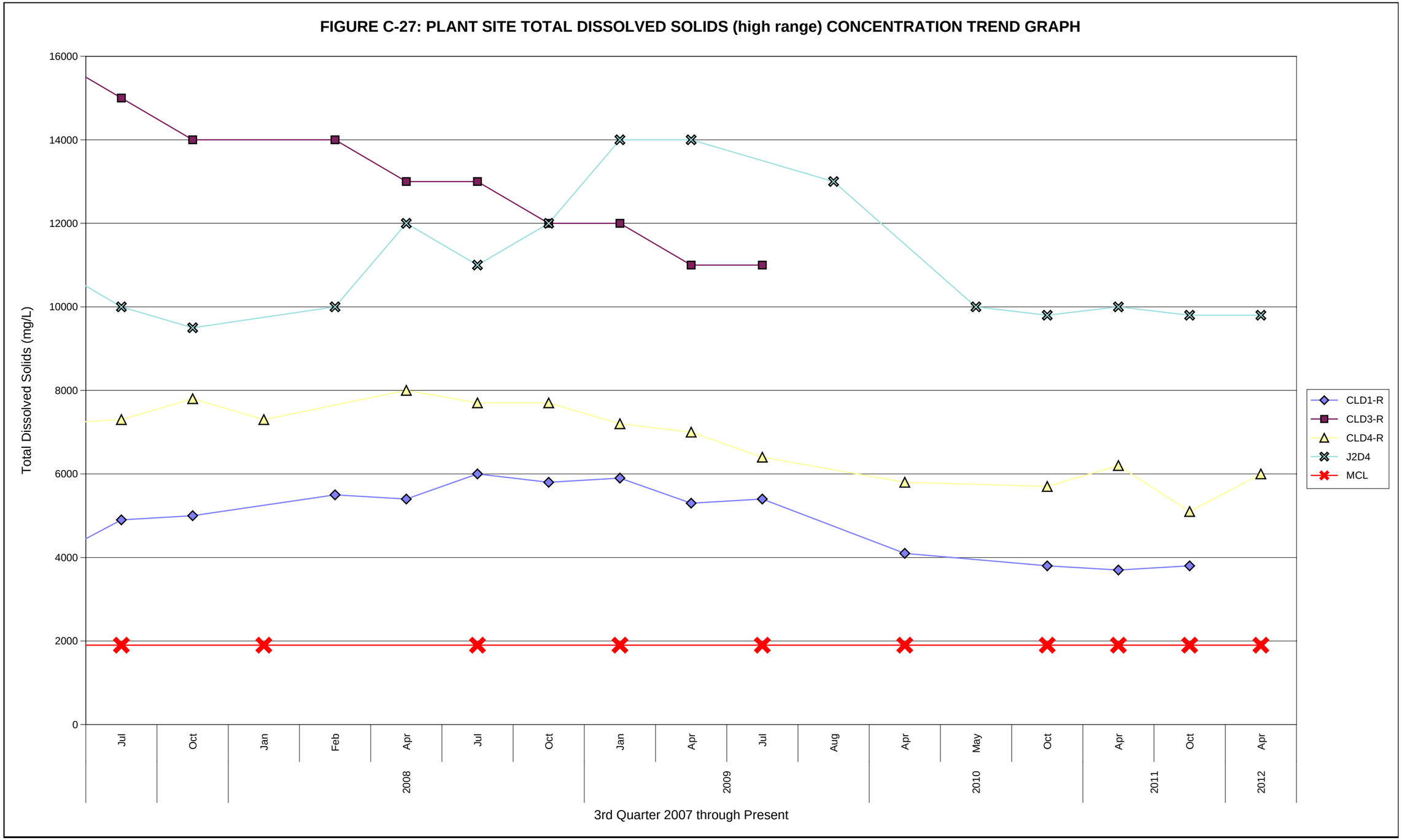


FIGURE C-27: PLANT SITE TOTAL DISSOLVED SOLIDS (high range) CONCENTRATION TREND GRAPH
Total Dissolved Solids (mg/L)
16000
14000
12000
10000
8000
6000
4000
2000
0
Jul
Oct
Jan
Feb
Apr
Jul
Oct
Jan
Apr
Jul
Aug
Apr
May
Oct
Apr
Oct
Apr
2008
2009
2010
2011
2012
3rd Quarter 2007 through Present
CLD1-R
CLD3-R
CLD4-R
J2D4
MCL

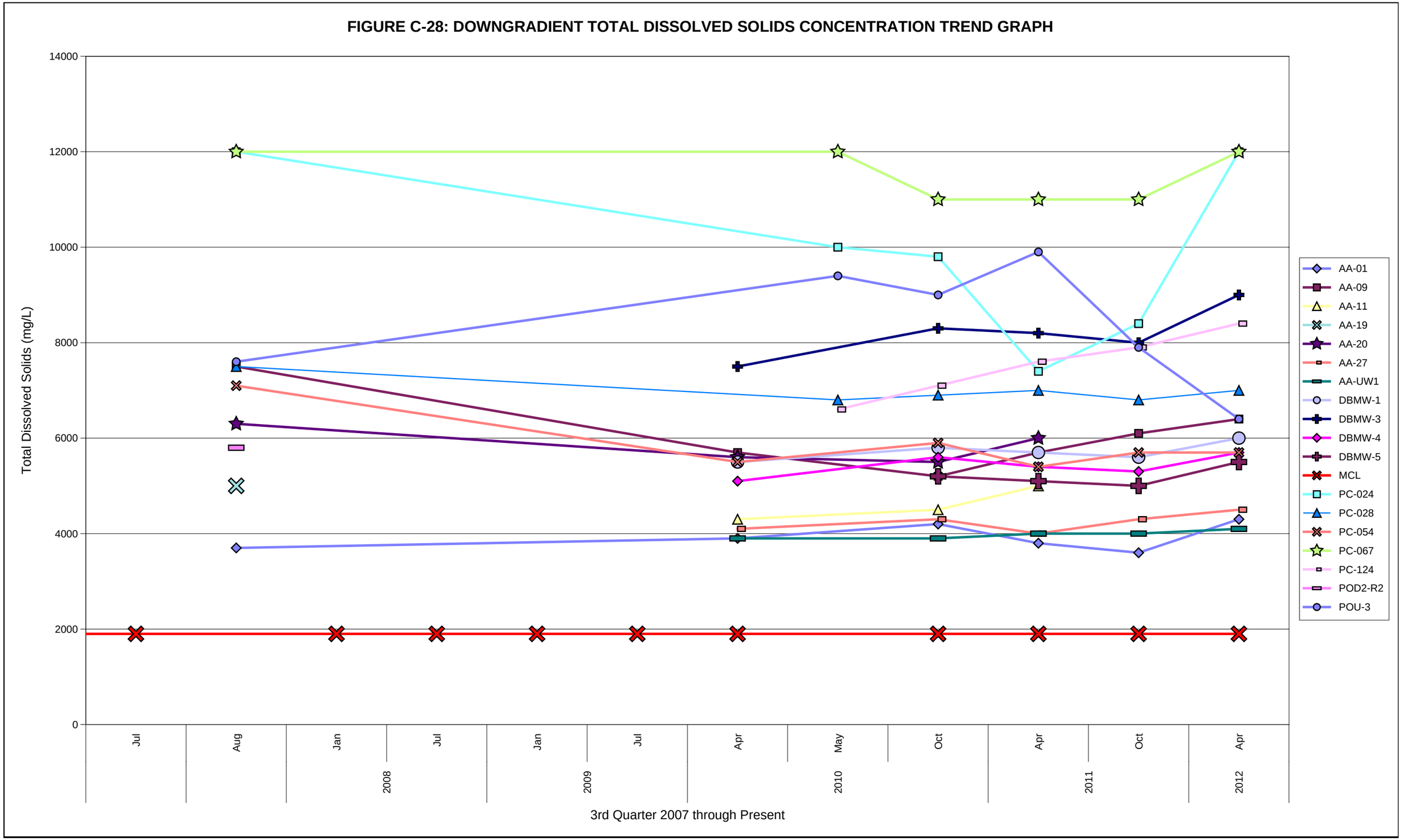


FIGURE C-28: DOWNGRADIENT TOTAL DISSOLVED SOLIDS CONCENTRATION TREND GRAPH
Total Dissolved Solids (mg/L)
14000
12000
10000
8000
6000
4000
2000
0
Jul
Aug
Jan
Jul
Jan
Jul
Apr
May
Oct
Apr
Oct
Apr
2008
2009
2010
2011
2012
3rd Quarter 2007 through Present
AA-01
AA-09
AA-11
AA-19
AA-20
AA-27
AA-UW1
DBMW-1
DBMW-3
DBMW-4
DBMW-5
MCL
PC-024
PC-028
PC-054
PC-067
PC-124
POD2-R2
POU-3

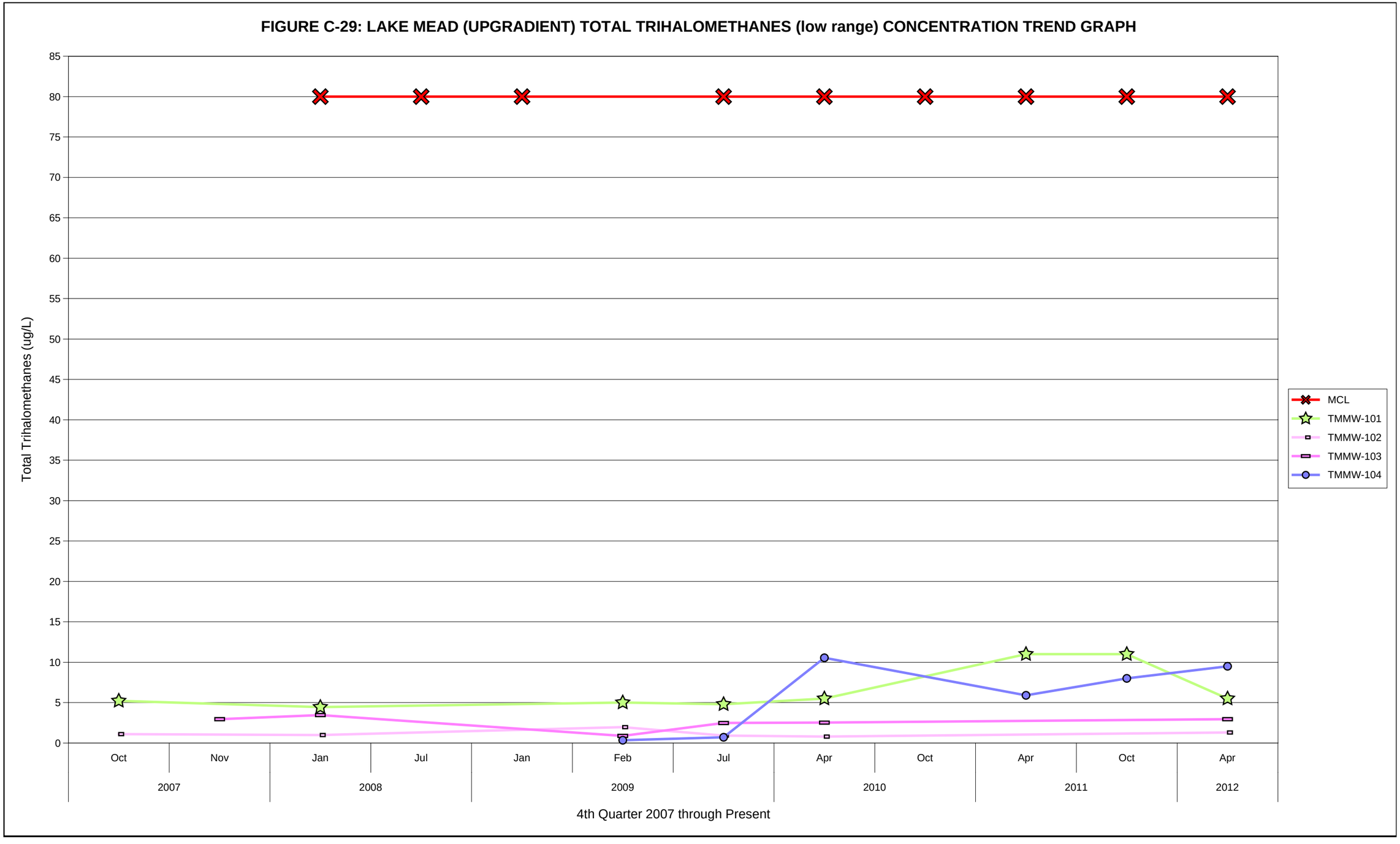


FIGURE C-29: LAKE MEAD (UPGRADIENT) TOTAL TRIHALOMETHANES (low range) CONCENTRATION TREND GRAPH
Total Trihalomethanes (ug/L)
85
80
75
70
65
60
55
50
45
40
35
30
25
20
15
10
5
0
Oct
Nov
Jan
Jul
Jan
Feb
Jul
Apr
Oct
Apr
Oct
Apr
2007
2008
2009
2010
2011
2012
4th Quarter 2007 through Present
MCL
TMMW-101
TMMW-102
TMMW-103
TMMW-104

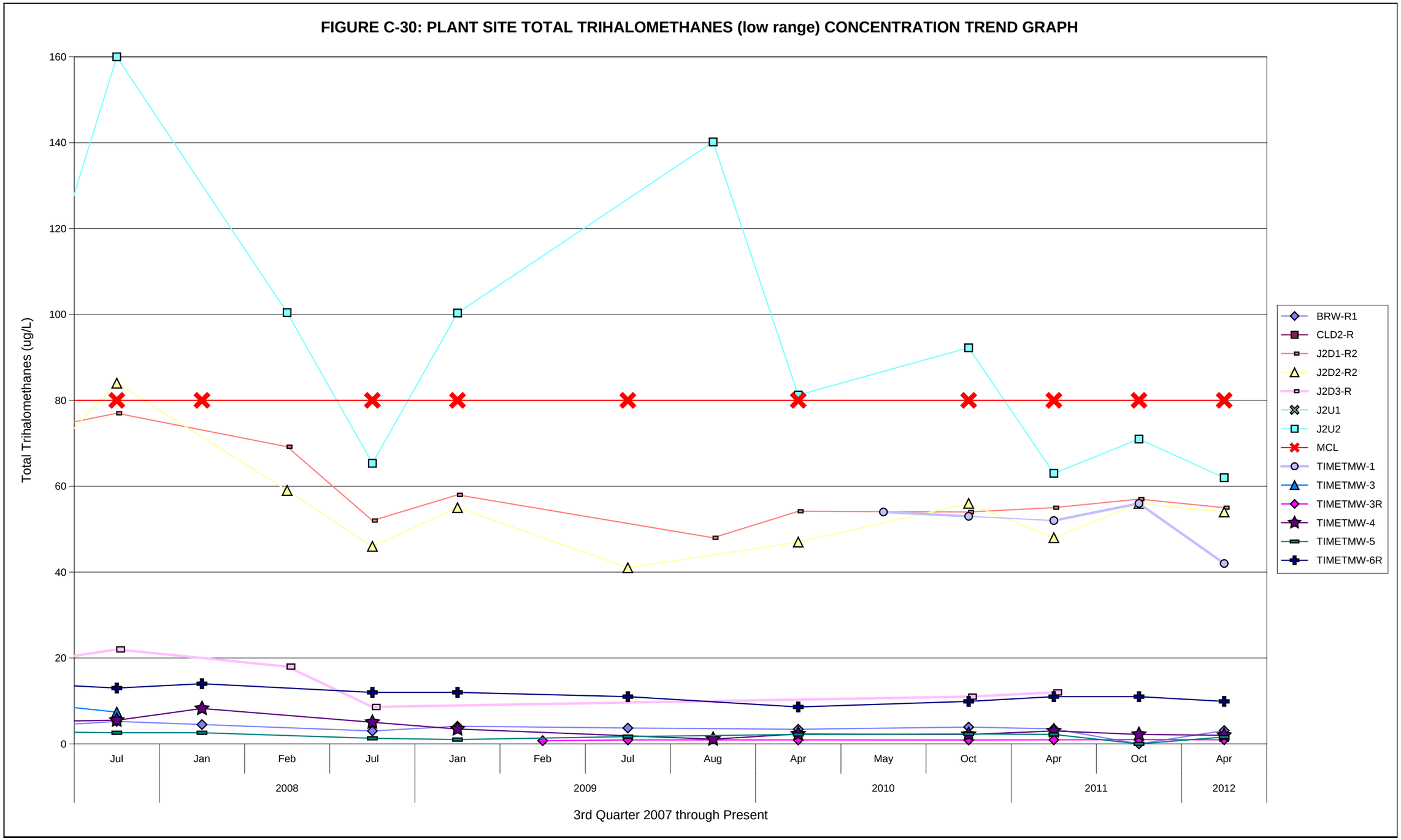


FIGURE C-30: PLANT SITE TOTAL TRIHALOMETHANES (low range) CONCENTRATION TREND GRAPH
Total Trihalomethanes (ug/L)
160
140
120
100
80
60
40
20
0
Jul
Jan
Feb
Jul
Jan
Feb
Jul
Aug
Apr
May
Oct
Apr
Oct
Apr
2008
2009
2010
2011
2012
3rd Quarter 2007 through Present
BRW-R1
CLD2-R
J2D1-R2
J2D2-R2
J2D3-R
J2U1
J2U2
MCL
TIMETMW-1
TIMETMW-3
TIMETMW-3R
TIMETMW-4
TIMETMW-5
TIMETMW-6R

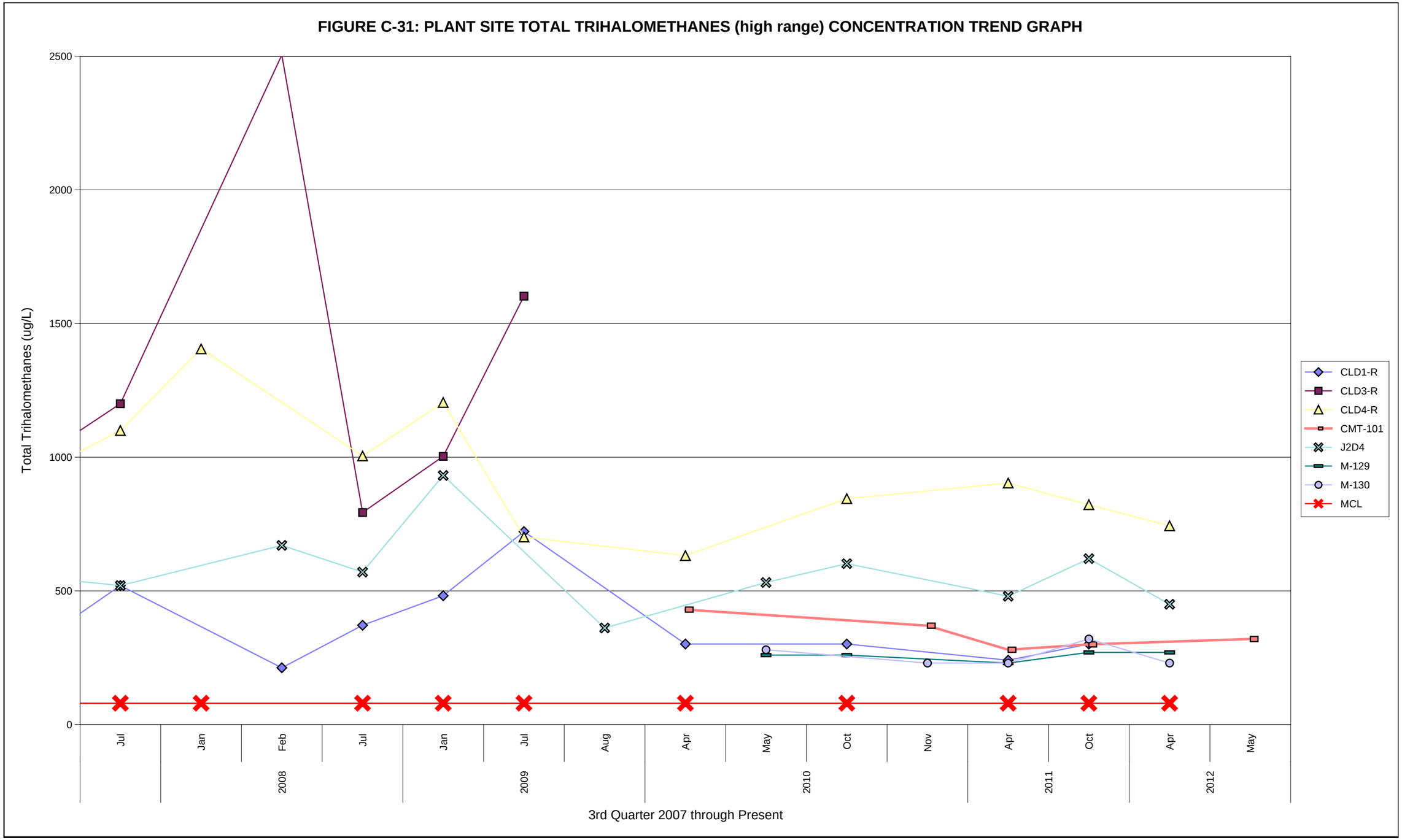


FIGURE C-31: PLANT SITE TOTAL TRIHALOMETHANES (high range) CONCENTRATION TREND GRAPH
Total Trihalomethanes (ug/L)
2500
2000
1500
1000
500
0
Jul
Jan
Feb
Jul
Jan
Jul
Aug
Apr
May
Oct
Nov
Apr
Oct
Apr
May
2008
2009
2010
2011
2012
3rd Quarter 2007 through Present
CLD1-R
CLD3-R
CLD4-R
CMT-101
J2D4
M-129
M-130
MCL

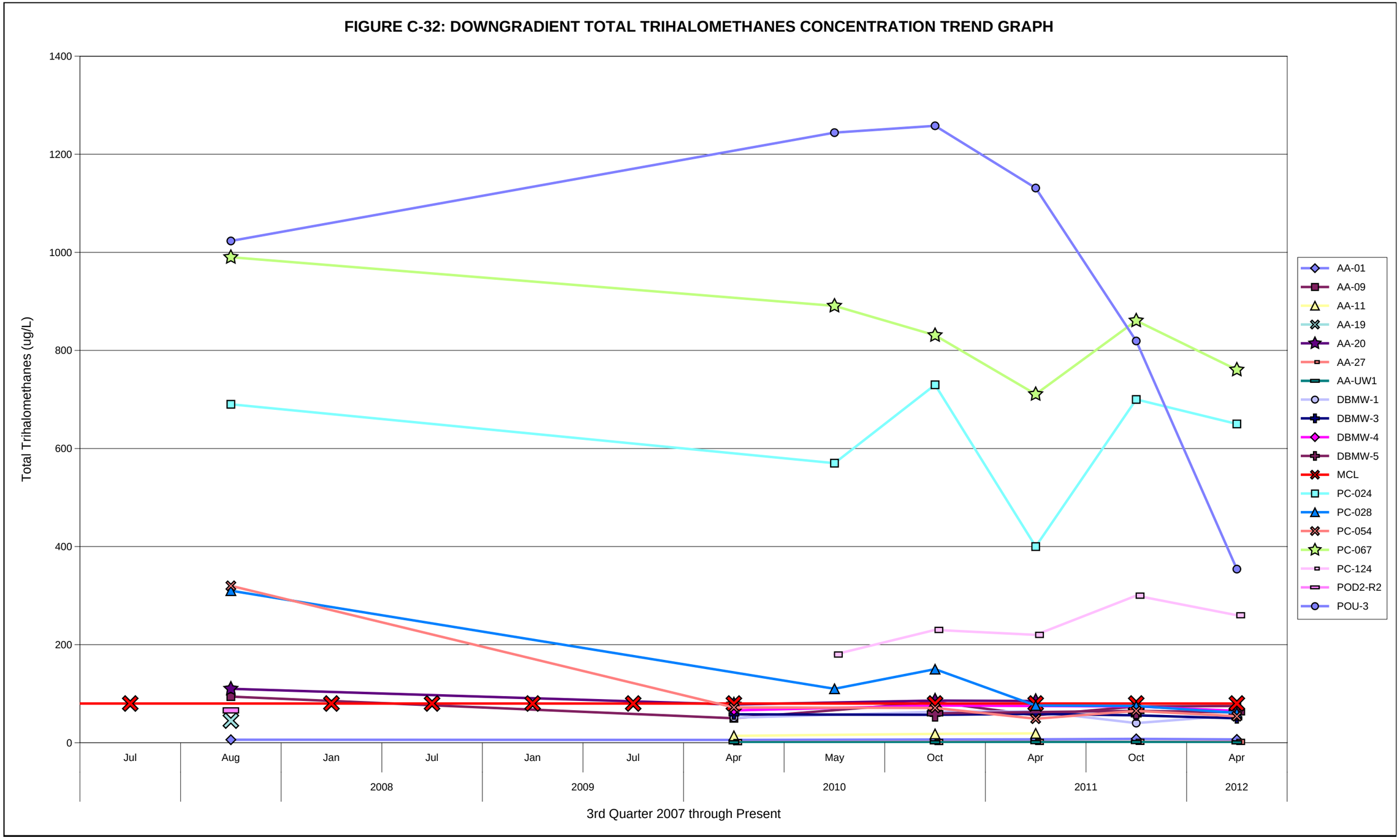


FIGURE C-32: DOWNGRADIENT TOTAL TRIHALOMETHANES CONCENTRATION TREND GRAPH
Total Trihalomethanes (ug/L)
1400
1200
1000
800
600
400
200
0
Jul
Aug
Jan
Jul
Jan
Jul
Apr
May
Oct
Apr
Oct
Apr
2008
2009
2010
2011
2012
3rd Quarter 2007 through Present
AA-01
AA-09
AA-11
AA-19
AA-20
AA-27
AA-UW1
DBMW-1
DBMW-3
DBMW-4
DBMW-5
MCL
PC-024
PC-028
PC-054
PC-067
PC-124
POD2-R2
POU-3

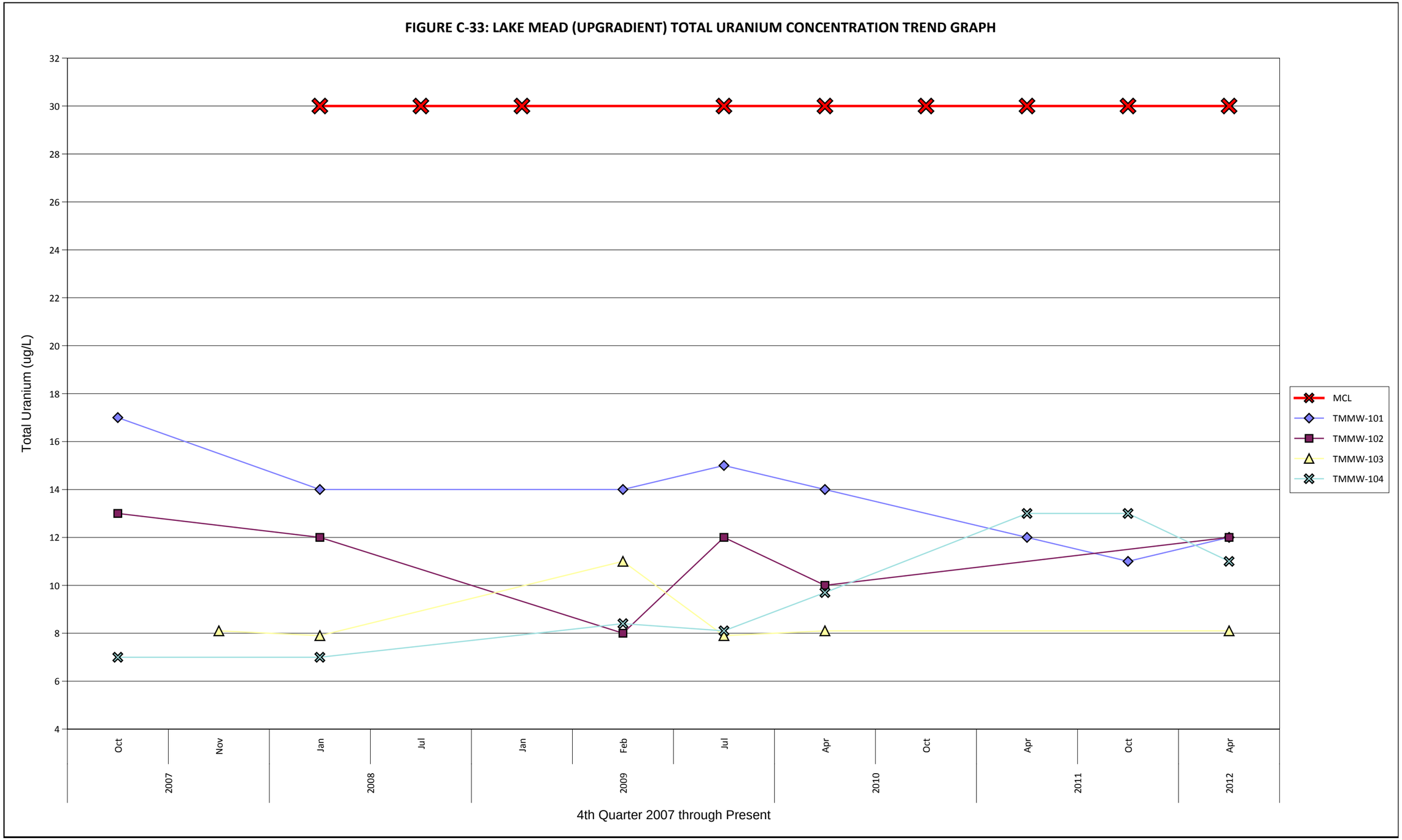
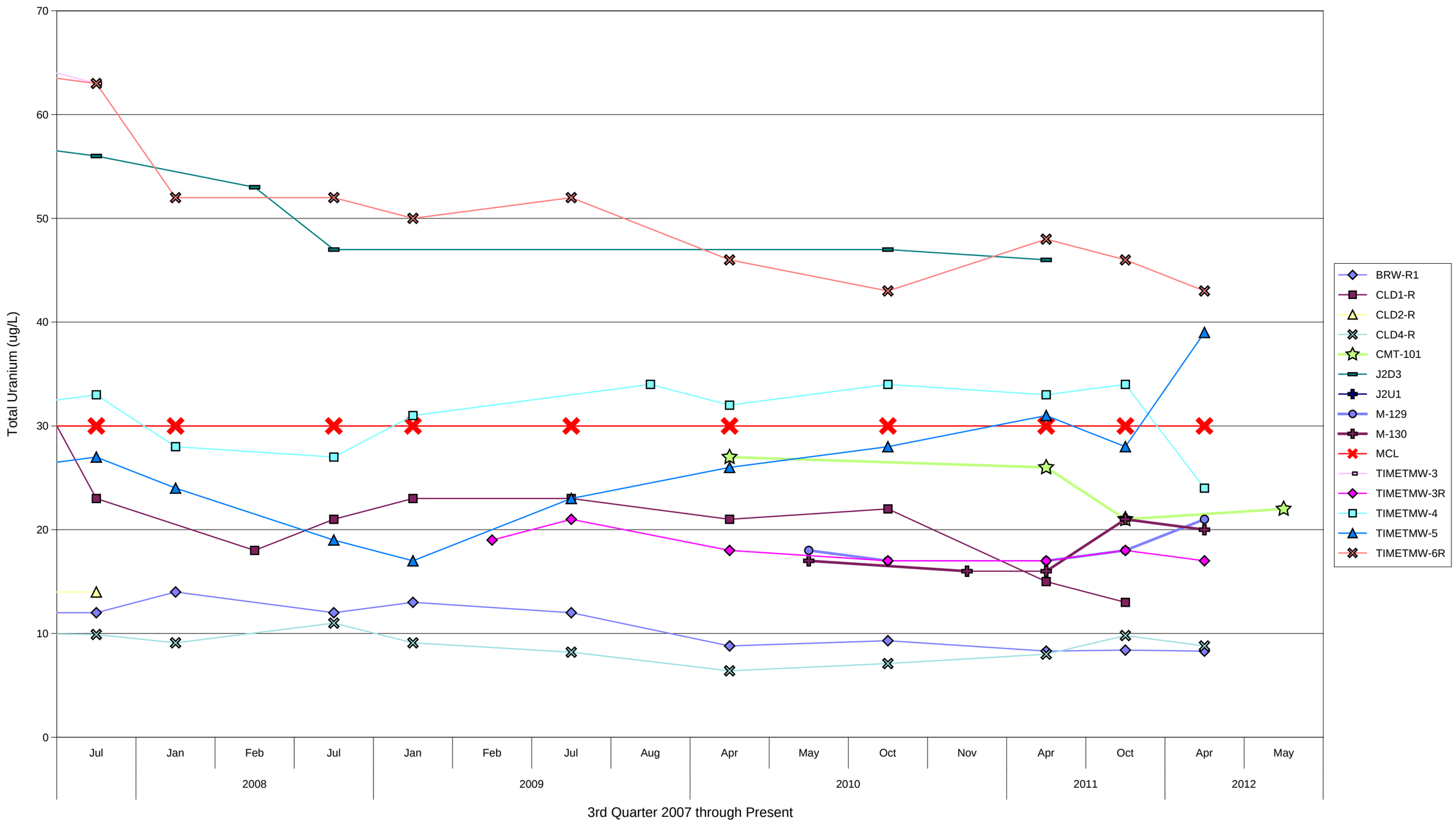


FIGURE C-33: LAKE MEAD (UPGRADIENT) TOTAL URANIUM CONCENTRATION TREND GRAPH
Total Uranium (ug/L)
32
30
28
26
24
22
20
18
16
14
12
10
8
6
4
Oct
Nov
Jan
Jul
Jan
Feb
Jul
Apr
Oct
Apr
Oct
Apr
2007
2008
2009
2010
2011
2012
4th Quarter 2007 through Present
MCL
TMMW-101
TMMW-102
TMMW-103
TMMW-104

FIGURE C-34: PLANT SITE TOTAL URANIUM (low range) CONCENTRATION TREND GRAPH



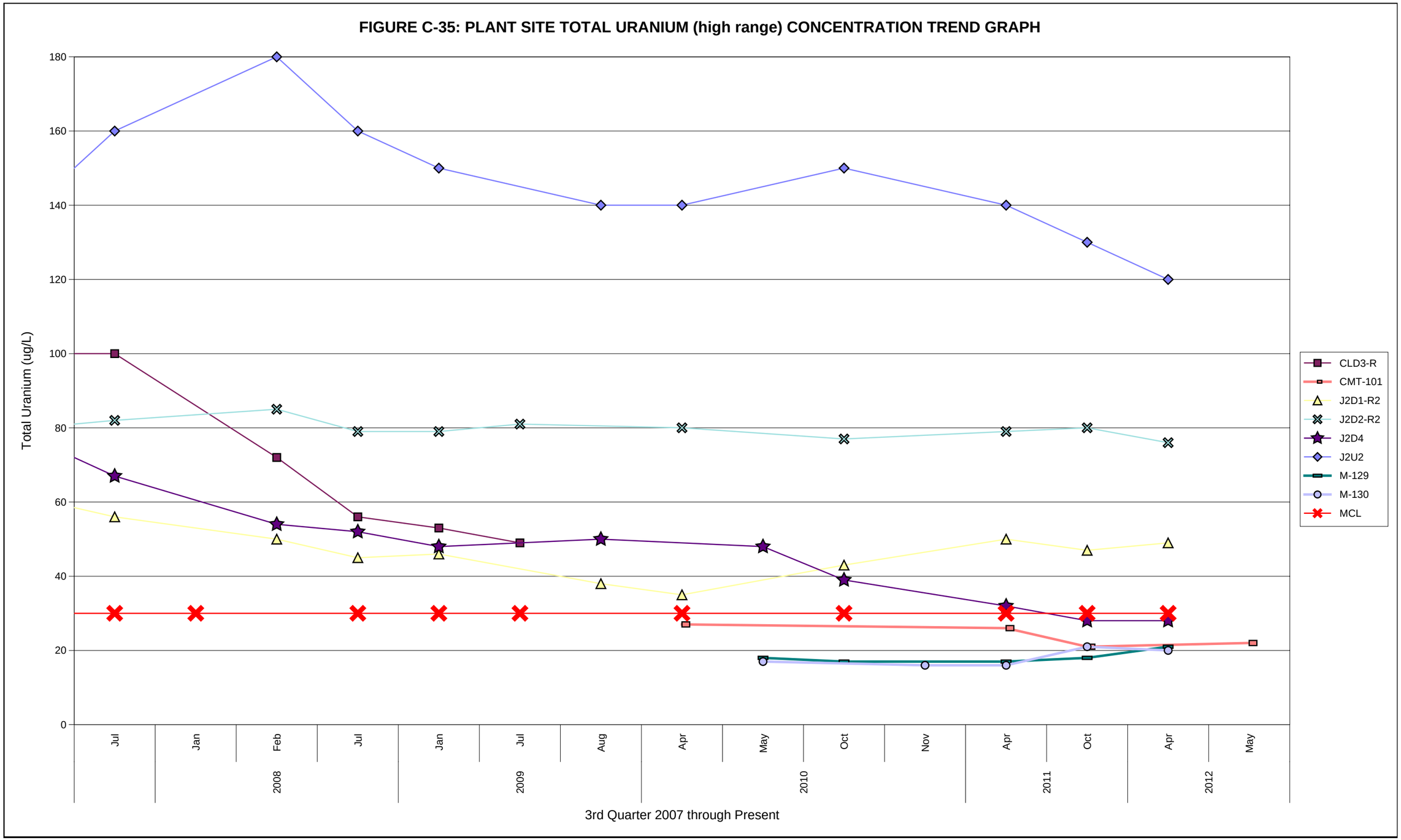


FIGURE C-35: PLANT SITE TOTAL URANIUM (high range) CONCENTRATION TREND GRAPH
Total Uranium (ug/L)
180
160
140
120
100
80
60
40
20
0
Jul
Jan
Feb
Jul
Jan
Jul
Aug
Apr
May
Oct
Nov
Apr
Oct
Apr
May
2008
2009
2010
2011
2012
3rd Quarter 2007 through Present
CLD3-R
CMT-101
J2D1-R2
J2D2-R2
J2D4
J2U2
M-129
M-130
MCL

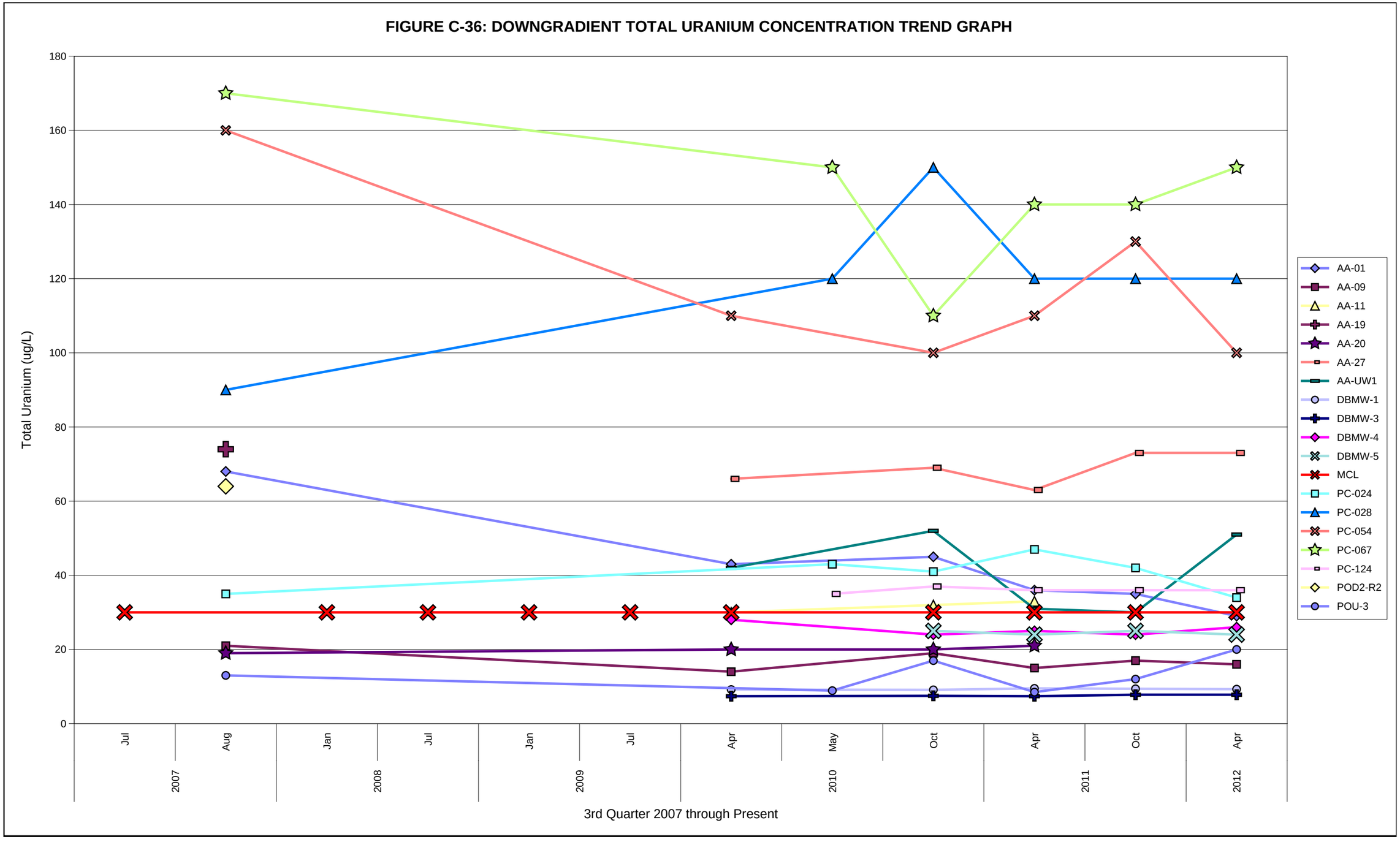


FIGURE C-36: DOWNGRADIENT TOTAL URANIUM CONCENTRATION TREND GRAPH
Total Uranium (ug/L)
180
160
140
120
100
80
60
40
20
0
Jul
Aug
Jan
Jul
Jan
Jul
Apr
May
Oct
Apr
Oct
Apr
2007
2008
2009
2010
2011
2012
3rd Quarter 2007 through Present
AA-01
AA-09
AA-11
AA-19
AA-20
AA-27
AA-UW1
DBMW-1
DBMW-3
DBMW-4
DBMW-5
MCL
PC-024
PC-028
PC-054
PC-067
PC-124
POD2-R2
POU-3

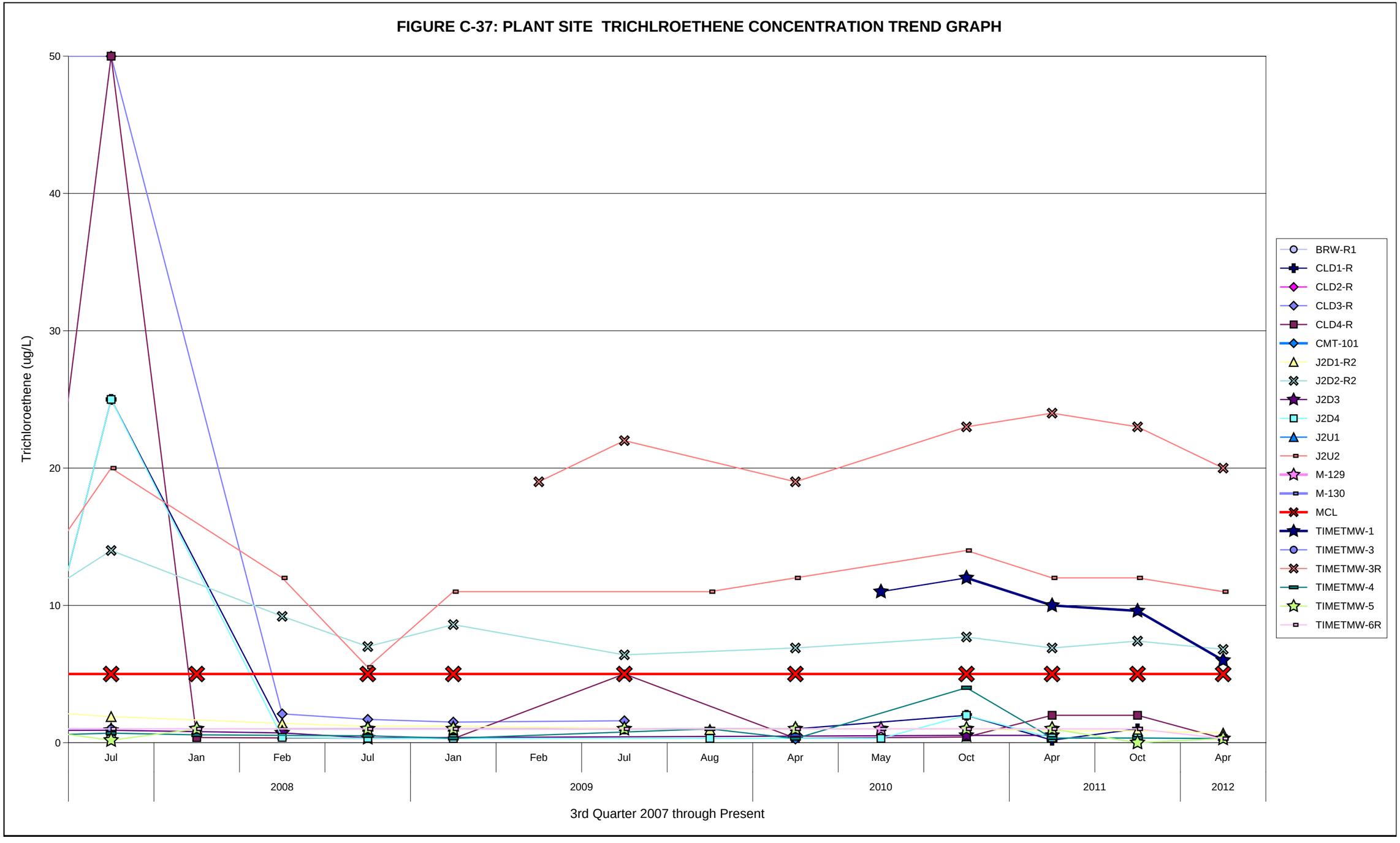


FIGURE C-37: PLANT SITE TRICHLROETHENE CONCENTRATION TREND GRAPH
Trichloroethene (ug/L)
50
40
30
20
10
0
Jul
Jan
Feb
Jul
Jan
Feb
Jul
Aug
Apr
May
Oct
Apr
Oct
Apr
2008
2009
2010
2011
2012
3rd Quarter 2007 through Present
BRW-R1
CLD1-R
CLD2-R
CLD3-R
CLD4-R
CMT-101
J2D1-R2
J2D2-R2
J2D3
J2D4
J2U1
J2U2
M-129
M-130
MCL
TIMETMW-1
TIMETMW-3
TIMETMW-3R
TIMETMW-4
TIMETMW-5
TIMETMW-6R

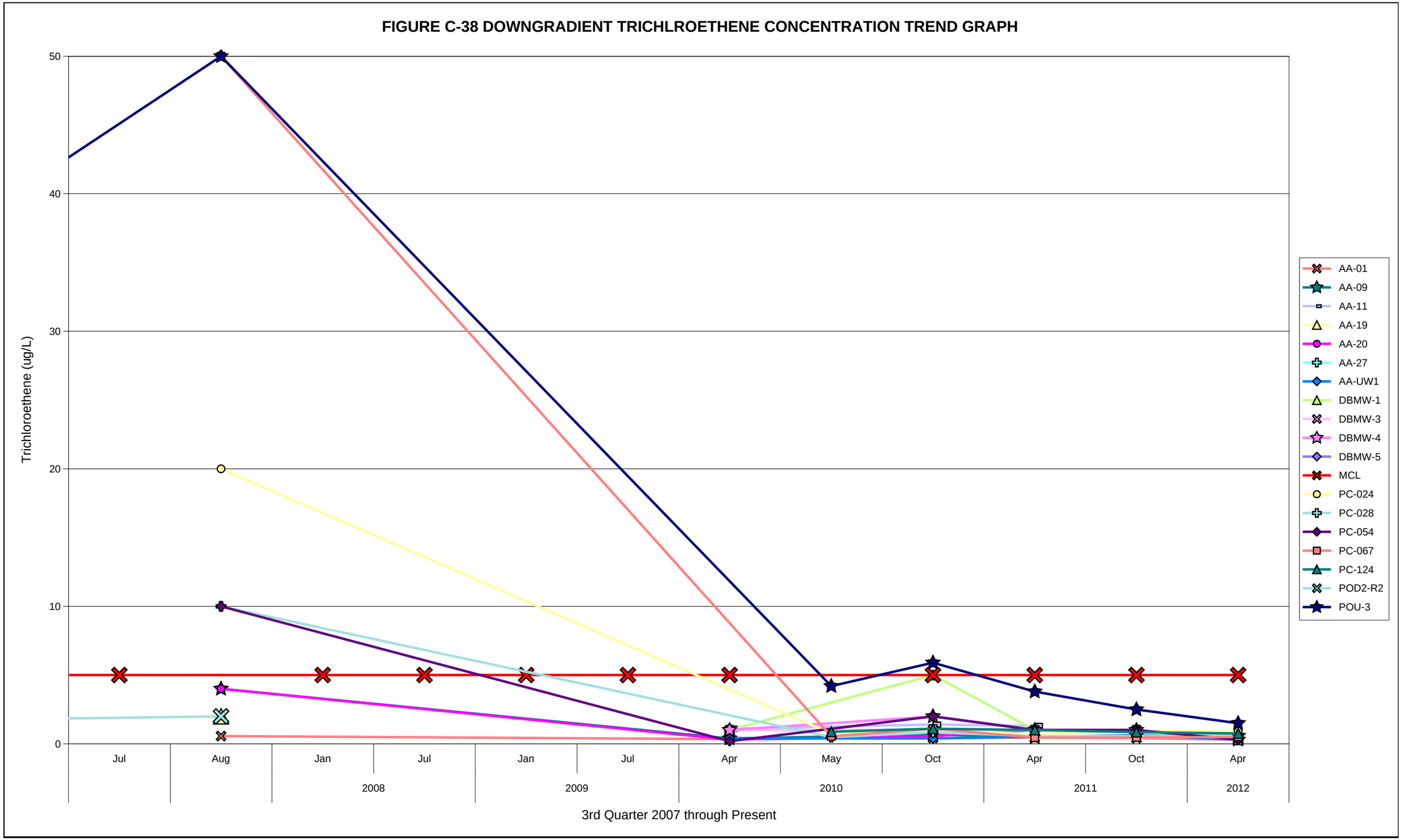


FIGURE C-38 DOWNGRADIENT TRICHLROETHENE CONCENTRATION TREND GRAPH
Trichloroethene (ug/L)
50
40
30
20
10
0
Jul
Aug
Jan
Jul
Jan
Jul
Apr
May
Oct
Apr
Oct
Apr
2008
2009
2010
2011
2012
3rd Quarter 2007 through Present
AA-01
AA-09
AA-11
AA-19
AA-20
AA-27
AA-UW1
DBMW-1
DBMW-3
DBMW-4
DBMW-5
MCL
PC-024
PC-028
PC-054
PC-067
PC-124
POD2-R2
POU-3

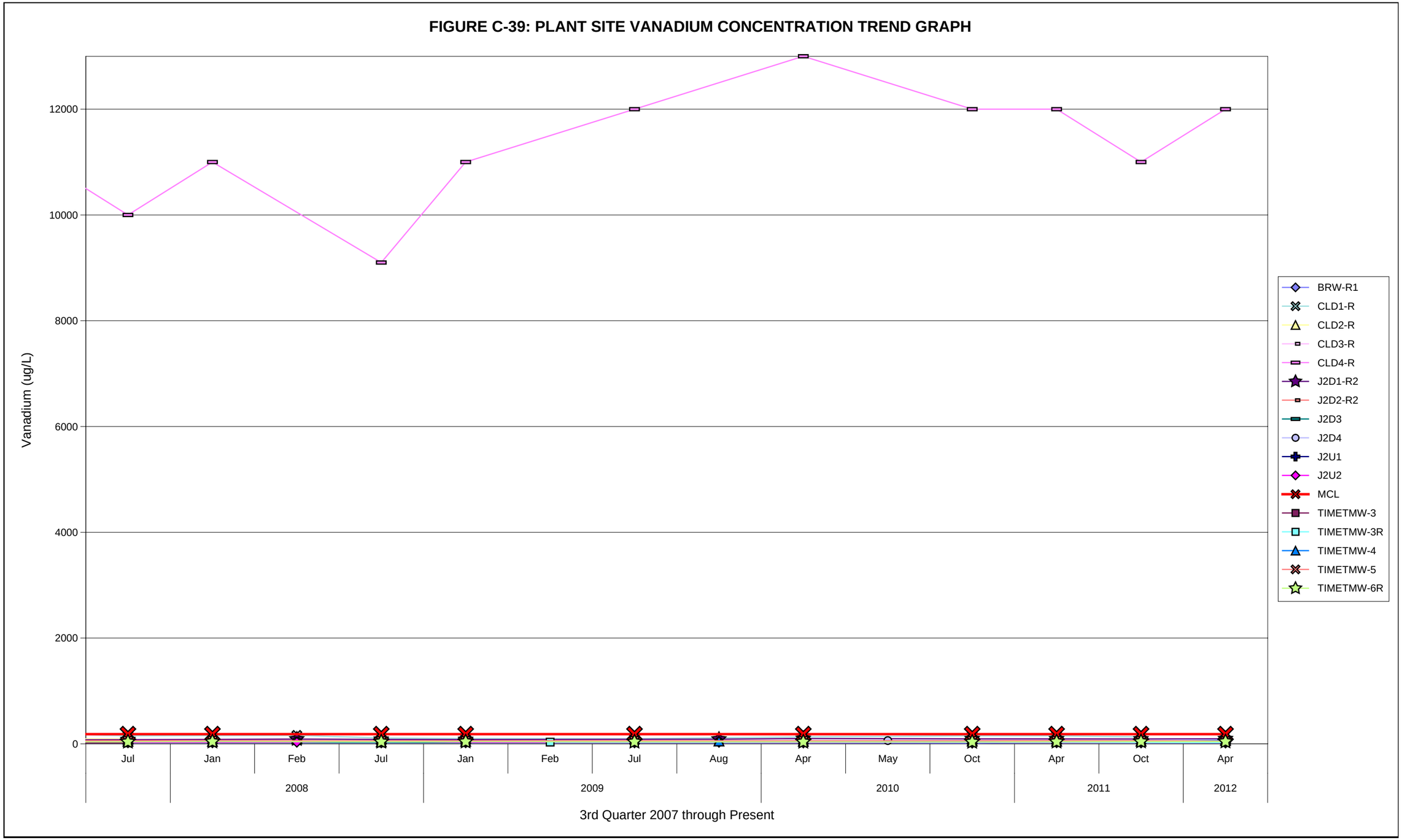


FIGURE C-39: PLANT SITE VANADIUM CONCENTRATION TREND GRAPH
Vanadium (ug/L)
12000
10000
8000
6000
4000
2000
0
Jul
Jan
Feb
Jul
Jan
Feb
Jul
Aug
Apr
May
Oct
Apr
Oct
Apr
2008
2009
2010
2011
2012
3rd Quarter 2007 through Present
BRW-R1
CLD1-R
CLD2-R
CLD3-R
CLD4-R
J2D1-R2
J2D2-R2
J2D3
J2D4
J2U1
J2U2
MCL
TIMETMW-3
TIMETMW-3R
TIMETMW-4
TIMETMW-5
TIMETMW-6R

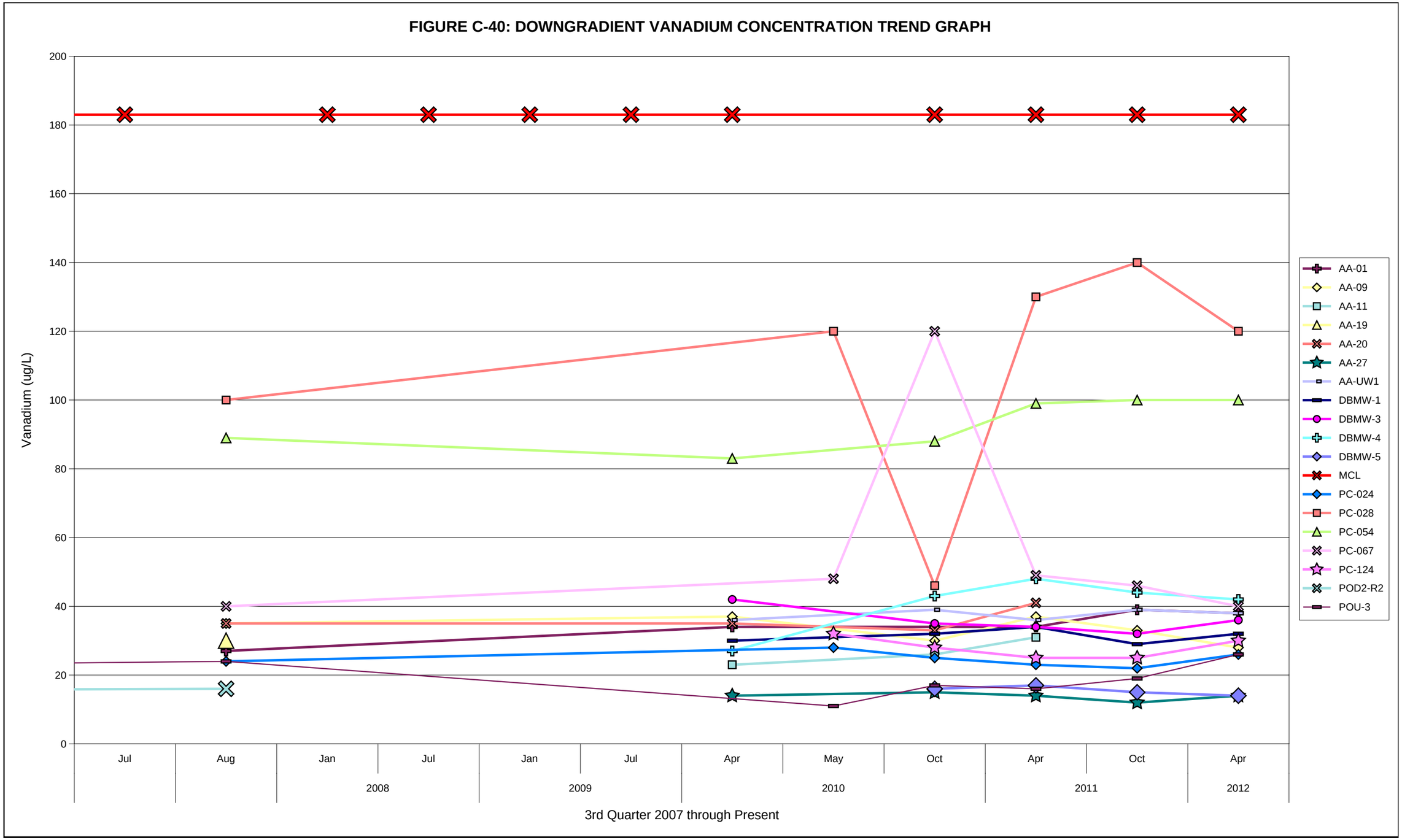
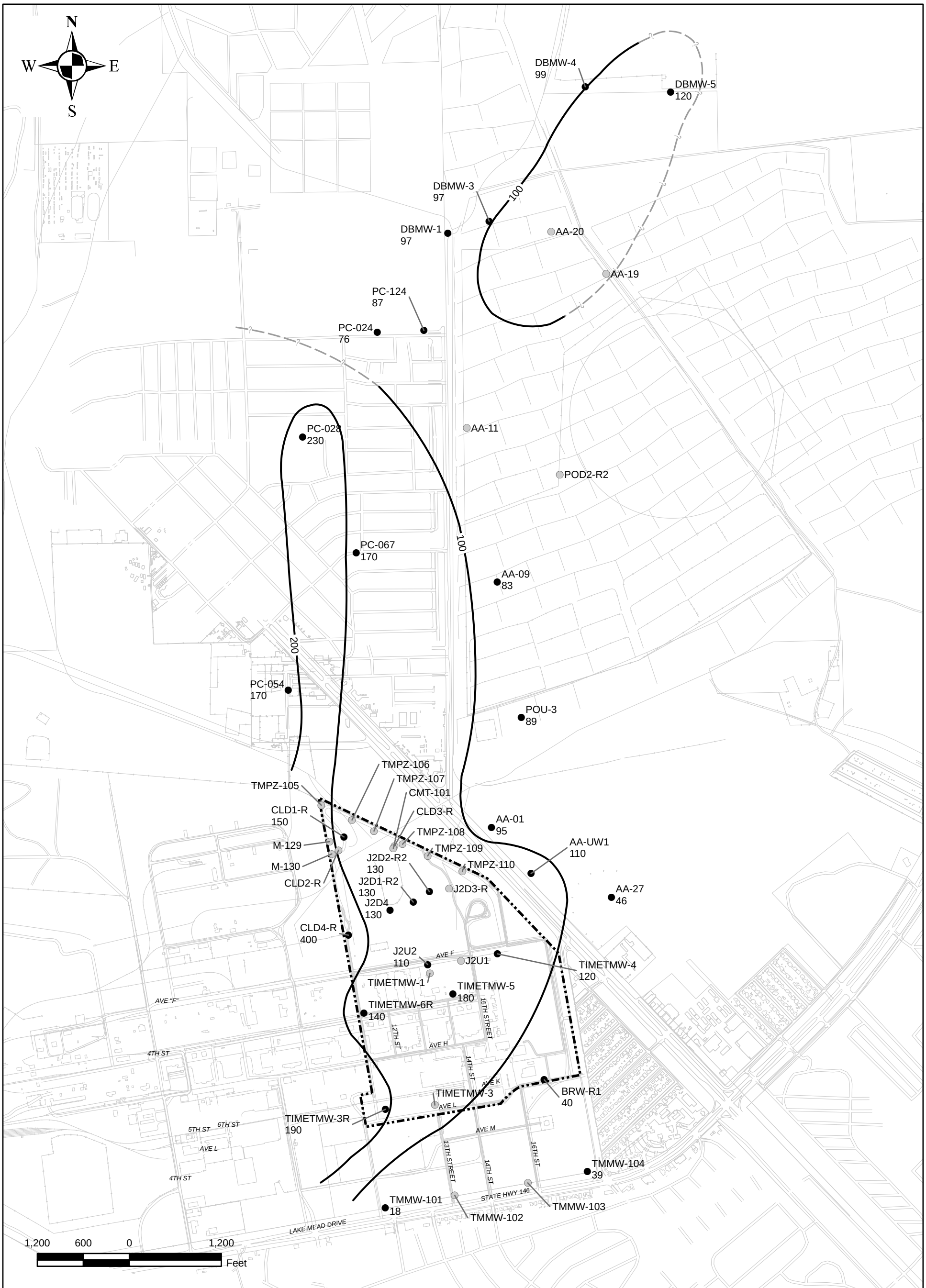


FIGURE C-40: DOWNGRADIENT VANADIUM CONCENTRATION TREND GRAPH
Vanadium (ug/L)
200
180
160
140
120
100
80
60
40
20
0
Jul
Aug
Jan
Jul
Jan
Jul
Apr
May
Oct
Apr
Oct
Apr
2008
2009
2010
2011
2012
3rd Quarter 2007 through Present
AA-01
AA-09
AA-11
AA-19
AA-20
AA-27
AA-UW1
DBMW-1
DBMW-3
DBMW-4
DBMW-5
MCL
PC-024
PC-028
PC-054
PC-067
PC-124
POD2-R2
POU-3

APPENDIX D

ISOCONCENTRATION MAPS, 2ND SEMESTER 2011



BRW-R1 40 — MONITORING WELL WITH ARSENIC CONCENTRATION (µg/L)

WELL NOT ANALYZED

100 — ARSENIC CONTOUR (µg/L)

APPROXIMATE CONTOUR LOCATION

TIMET PROPERTY BOUNDARY

µg/L MICROGRAM PER LITER

Note:
The screening level used for arsenic is the residential water NDEP Basic Comparison Level (BCL). The NDEP BCL for arsenic is 10 ug/L.

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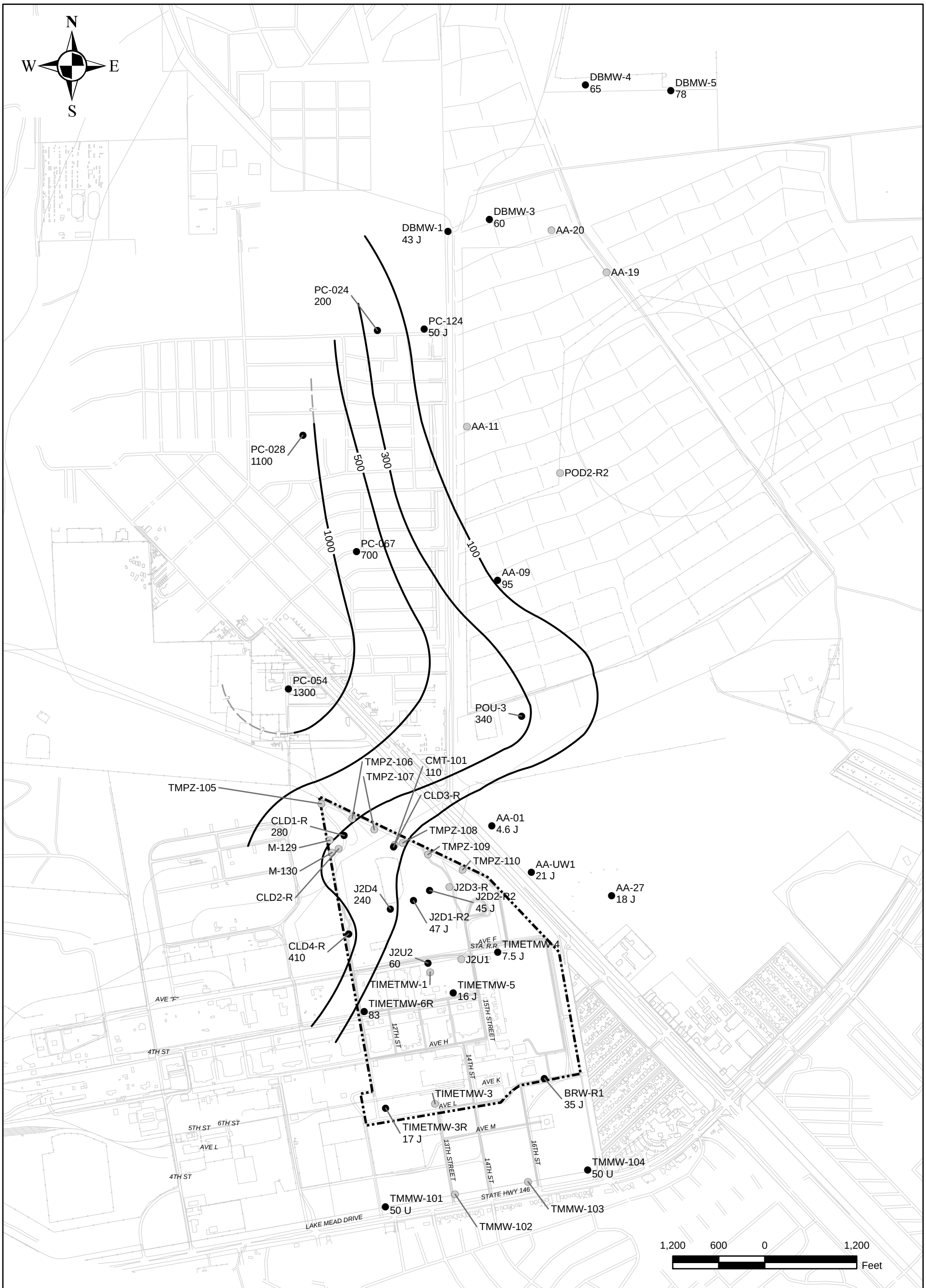
Titanium Metals Corporation
Henderson, Nevada

FIGURE D-1
ARSENIC
ISOCONCENTRATION MAP
2ND SEMESTER 2011

TIMET

2012-05-24 C:\TIMET\2ndSEM2011\mxd\TIMET_siteAS.mxd michelle.handley



BRW-R1 35 J — MONITORING WELL WITH CHROMIUM CONCENTRATION (µg/L)

WELL NOT ANALYZED

100 — CHROMIUM CONTOUR (µg/L)

APPROXIMATE CONTOUR LOCATION

TIMET PROPERTY BOUNDARY

µg/L MICROGRAM PER LITER

Note:
The screening level used for chromium is the residential water NDEP Basic Comparison Level (BCL). The NDEP BCL for chromium is 100 ug/L.

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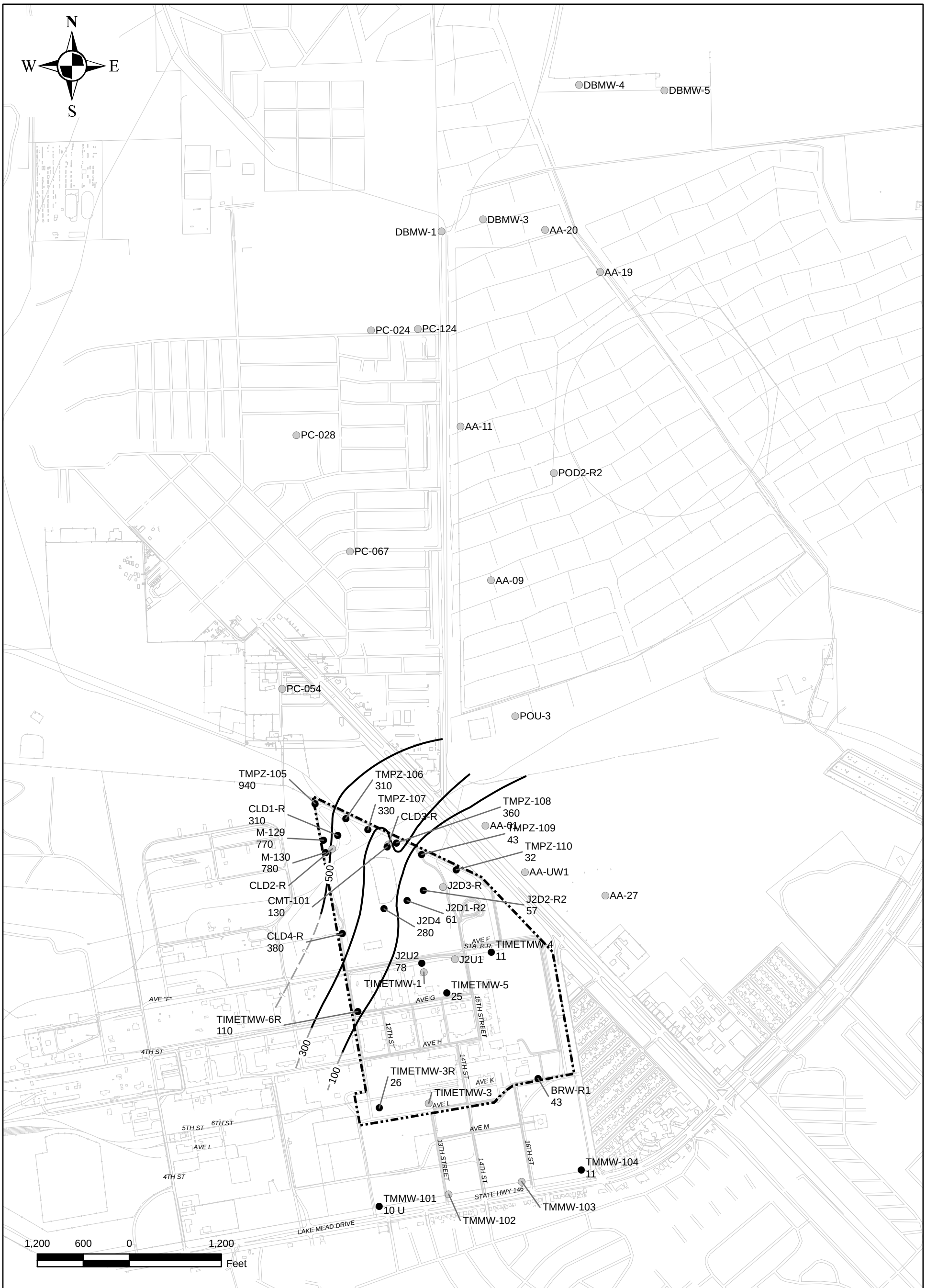
Titanium Metals Corporation
Henderson, Nevada

FIGURE D-2
CHROMIUM
ISOCONCENTRATION MAP
2ND SEMESTER 2011

TIMET

2012-05-24 C:\TIMET\2ndSEM2011\mxd\TIMET_siteCR.mxd michelle.handley



BRW-R1 43 — MONITORING WELL WITH HEXAVALENT CHROMIUM CONCENTRATION (µg/L)

WELL NOT ANALYZED

100 — HEXAVALENT CHROMIUM CONTOUR (µg/L)

APPROXIMATE CONTOUR LOCATION

TIMET PROPERTY BOUNDARY

µg/L MICROGRAM PER LITER

Note:
The screening level used for hexavalent chromium is the residential water NDEP Basic Comparison Level (BCL). The NDEP BCL for hexavalent chromium is 100 ug/L.

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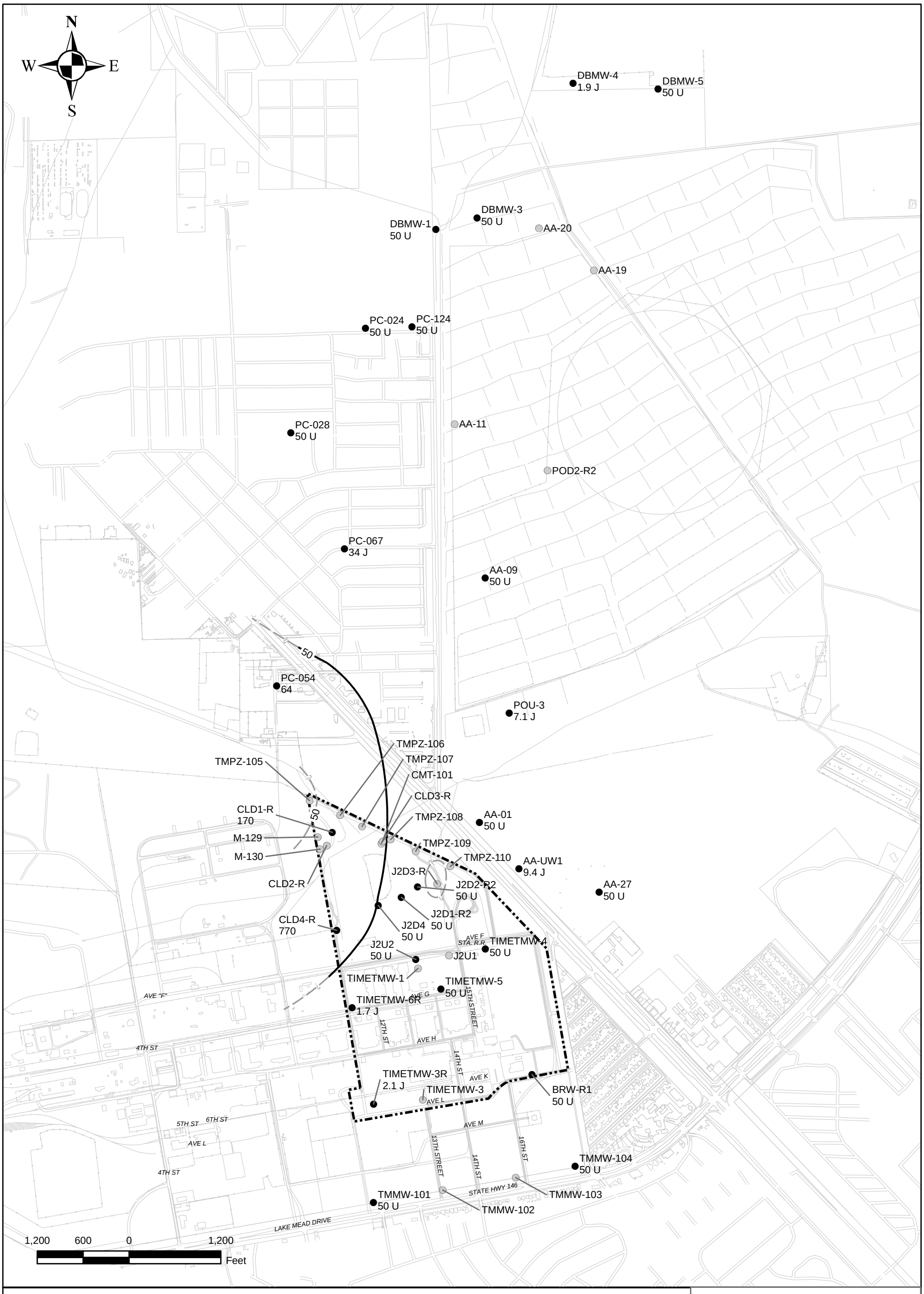
Titanium Metals Corporation
Henderson, Nevada

FIGURE D-3
HEXAVALENT CHROMIUM ISOCONCENTRATION MAP
2ND SEMESTER 2011

TIMET

2012-05-24 C:\TIMET\2ndSEM2011\mxd\TIMET_siteHEXCR.mxd michelle.handley



BRW-R1
50 U — MONITORING WELL WITH MANGANESE CONCENTRATION (µg/L)

WELL NOT ANALYZED

10 — MANGANESE CONTOUR (µg/L)

APPROXIMATE CONTOUR LOCATION

TIMET PROPERTY BOUNDARY

µg/L MICROGRAM PER LITER

Note:
The screening level used for manganese is the residential water NDEP Basic Comparison Level (BCL). The NDEP BCL for manganese is 20 ug/L.

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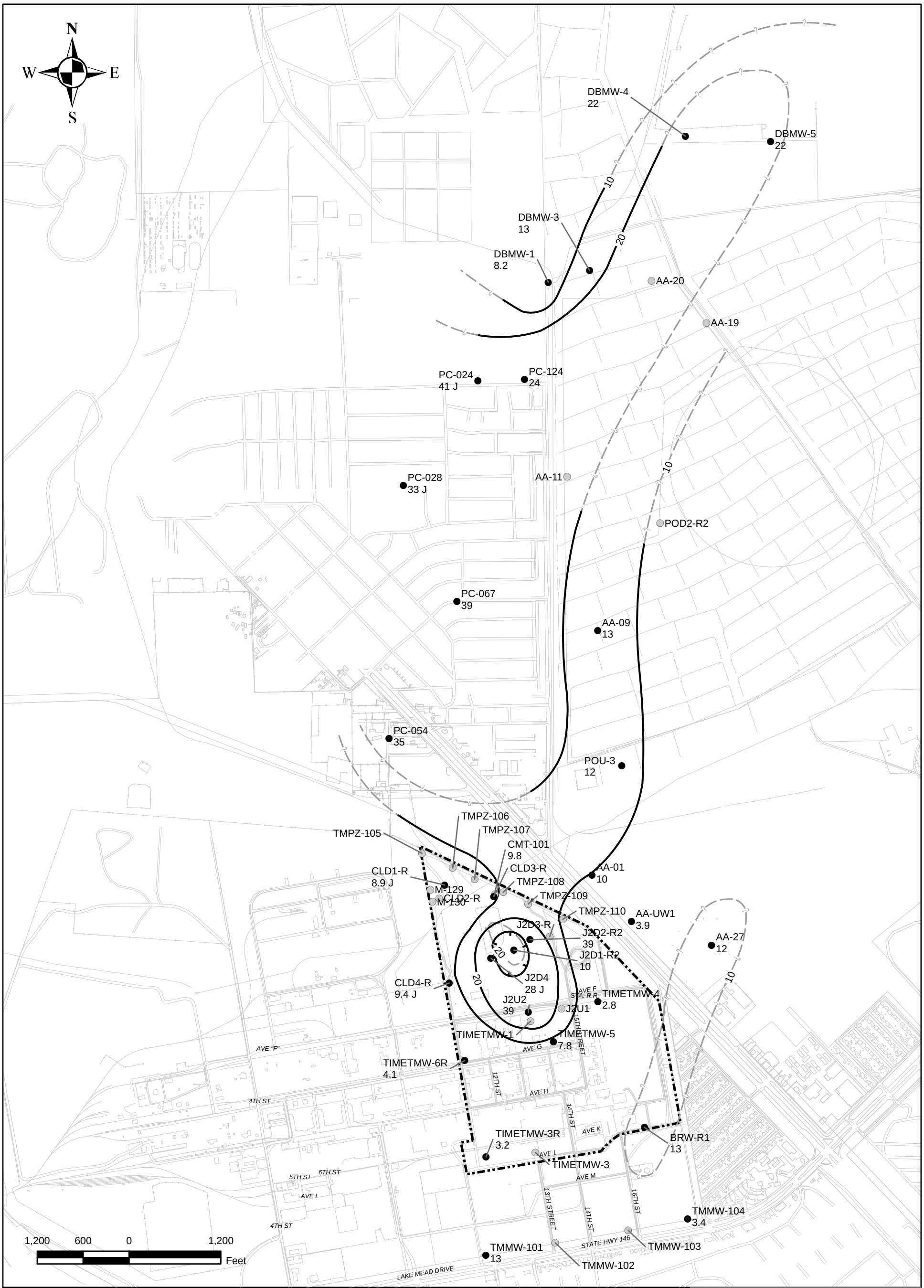
Titanium Metals Corporation
Henderson, Nevada

FIGURE D-4
MANGANESE ISOCONCENTRATION MAP
2ND SEMESTER 2011

TIMET

2012-05-24 C:\TIMET\2ndSEM2011\mxd\TIMET_siteMN.mxd michelle.handley



BRW-R1 13 — MONITORING WELL WITH NITRATE AS NITROGEN CONCENTRATION (mg/L)

WELL NOT ANALYZED

10 — NITRATE AS NITROGEN CONTOUR (mg/L)

APPROXIMATE CONTOUR LOCATION

TIMET PROPERTY BOUNDARY

mg/L MILLIGRAM PER LITER

Note:
The screening level used for nitrate is the residential water NDEP Basic Comparison Level (BCL). The NDEP BCL for nitrate is 10 mg/L.

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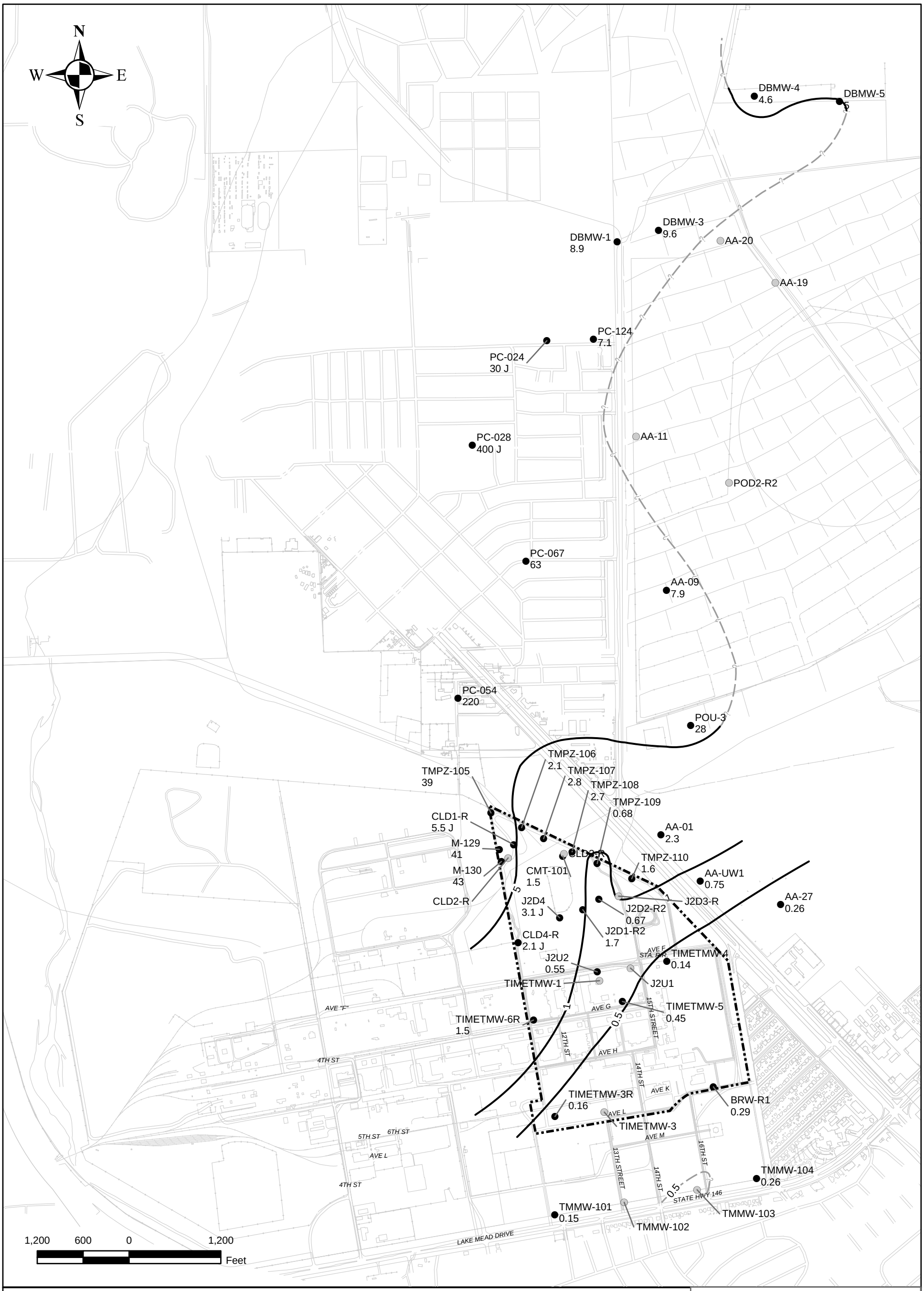
Henderson, Nevada

FIGURE D-5
NITRATE AS NITROGEN ISOCONCENTRATION MAP
2ND SEMESTER 2011

TIMET

2012-05-24 C:\TIMET\2ndSEM2011\mxd\TIMET_siteN.mxd michelle.handley



BRW-R1 0.29 — MONITORING WELL WITH PERCHLORATE CONCENTRATION (mg/L)

WELL NOT ANALYZED

100 — PERCHLORATE CONTOUR (µg/L)

APPROXIMATE CONTOUR LOCATION

TIMET PROPERTY BOUNDARY

mg/L MILLIGRAM PER LITER

Note:
The screening level used for perchlorate is the residential water NDEP Basic Comparison Level (BCL). The NDEP BCL for perchlorate is 0.018 mg/L.

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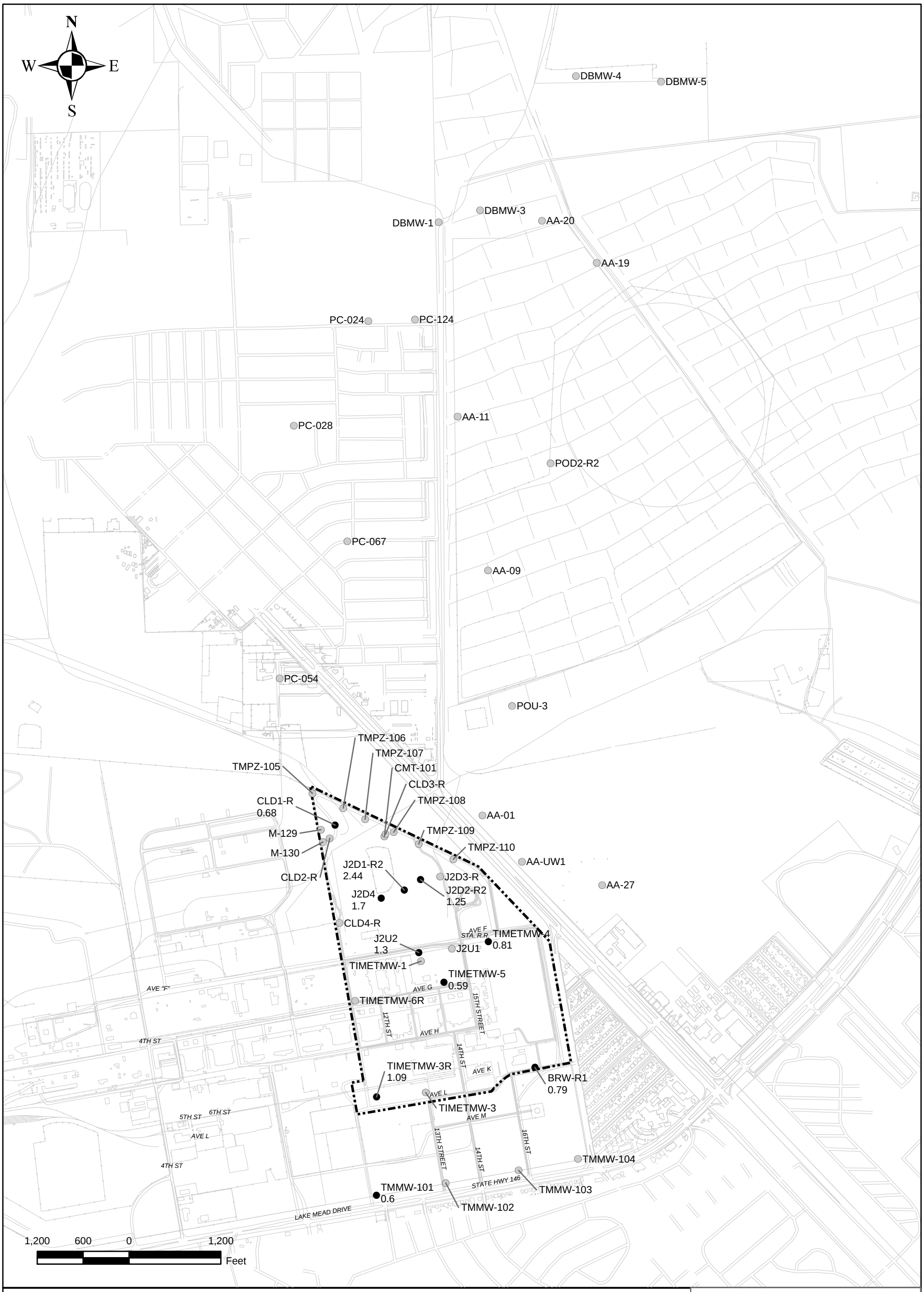
FIGURE D-6
PERCHLORATE ISOCONCENTRATION MAP
2ND SEMESTER 2011

TIMET

2012-05-24 C:\TIMET\2ndSEM2011\mxd\TIMET_sitePERCHLORATE.mxd michelle.handley



BRW-R1 0.79 — MONITORING WELL WITH COMBINED RADIUM-226 AND RADIUM-228 CONCENTRATION (pCi/L)

WELL NOT ANALYZED

TIMET PROPERTY BOUNDARY

pCi/L PICOCURIE PER LITER

Note:
The screening level used for combined radium is the residential water NDEP Basic Comparison Level (BCL). The NDEP BCL for combined radium is 5 pCi/L.

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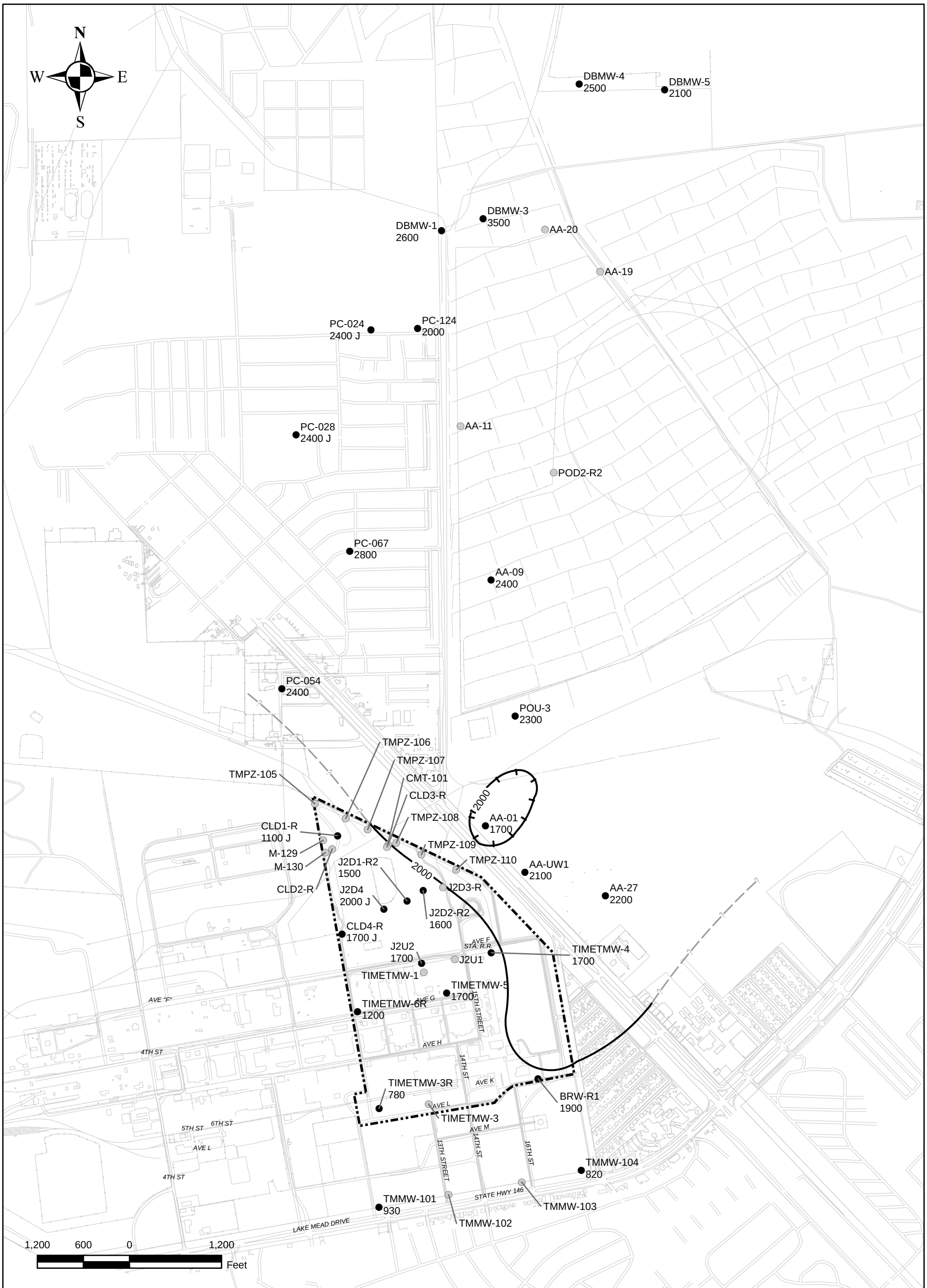
FIGURE D-7
COMBINED RADIUM-226 AND RADIUM-228 ISOCONCENTRATION MAP
2ND SEMESTER 2011

TIMET

2012-05-24 C:\TIMET\2ndSEM2011\mxd\TIMET_siteRAD.mxd michelle.handley



BRW-R1 1900 — MONITORING WELL WITH SULFATE CONCENTRATION (mg/L)

WELL NOT ANALYZED

2500 — SULFATE CONTOUR (µg/L)

APPROXIMATE CONTOUR LOCATION

TIMET PROPERTY BOUNDARY

mg/L MILLIGRAM PER LITER

Note:
The screening level used for sulfate is the residential water NDEP Basic Comparison Level (BCL). The NDEP BCL for sulfate is 250 mg/L.

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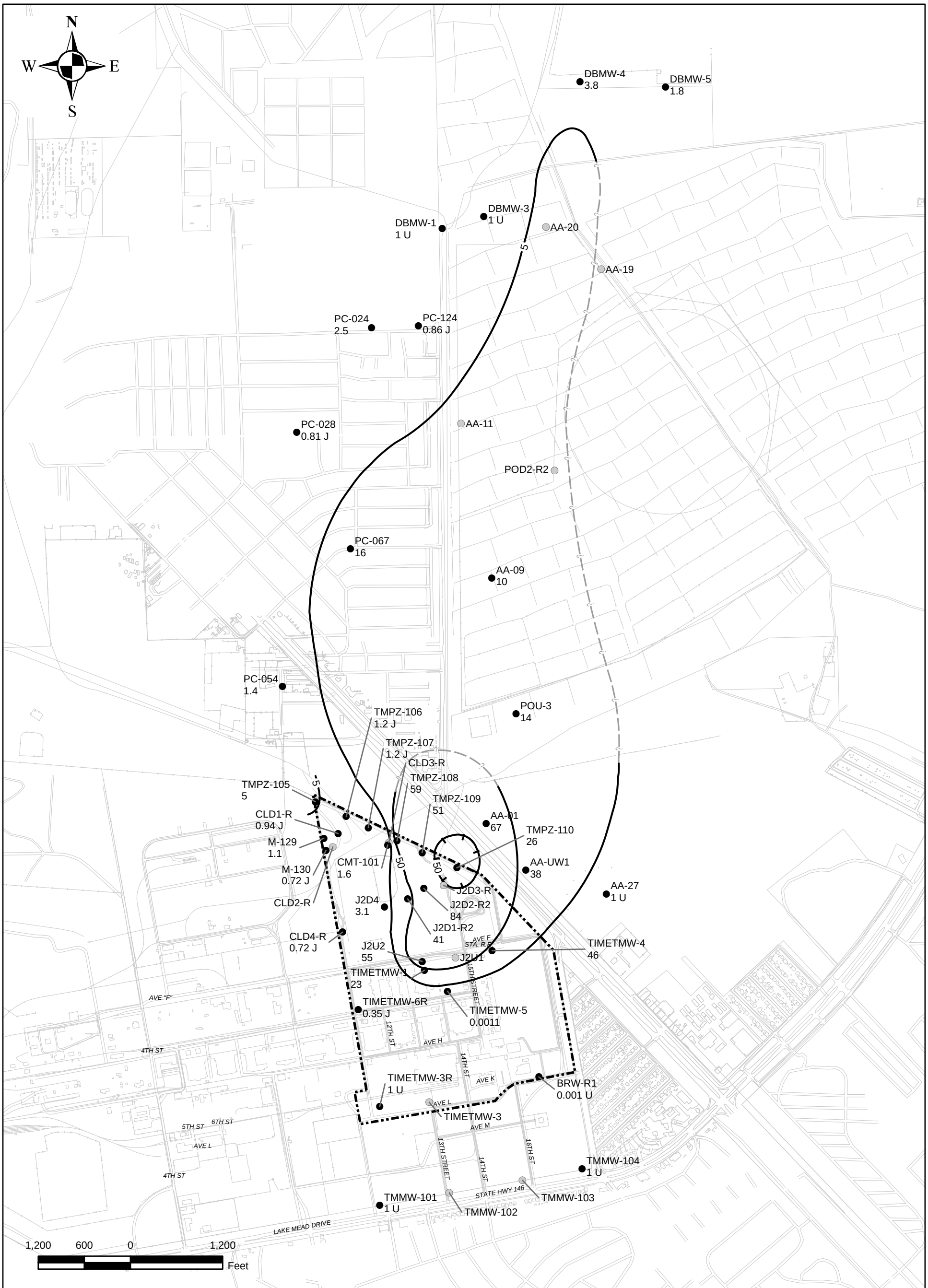
FIGURE D-8
SULFATE
ISOCONCENTRATION MAP
2ND SEMESTER 2011

TIMET

2012-05-24 C:\TIMET\2ndSEM2011\mxd\TIMET_siteS.mxd michelle.handley



BRW-R1 0.001 U — MONITORING WELL WITH TETRACHLOROETHENE CONCENTRATION (µg/L)

WELL NOT ANALYZED

50 — TETRACHLOROETHENE CONTOUR (µg/L)

APPROXIMATE CONTOUR LOCATION

TIMET PROPERTY BOUNDARY

µg/L MICROGRAM PER LITER

Note:
The screening level used fortetrachloroethene is the residential water NDEP Basic Comparison Level (BCL). The NDEP BCL for tetrachloroethene is 5 ug/L.

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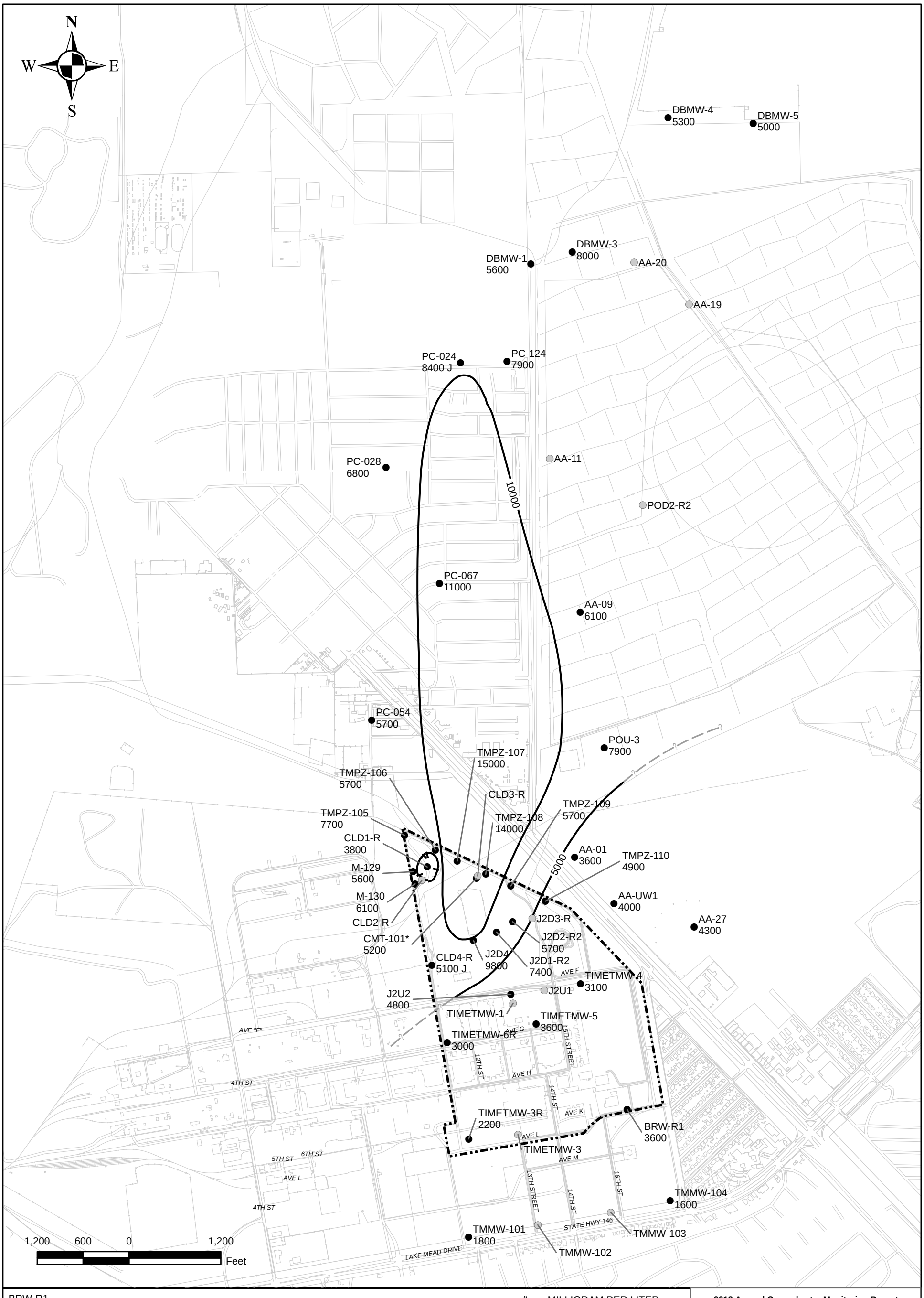
FIGURE D-9
TETRACHLOROETHENE ISOCONCENTRATION MAP
2ND SEMESTER 2011

TIMET

2012-05-24 C:\TIMET\2ndSEM2011\mxd\TIMET_sitePCE.mxd michelle.handley



BRW-R1 3600 ● MONITORING WELL WITH TOTAL DISSOLVED SOLIDS CONCENTRATION (mg/L)

WELL NOT ANALYZED

10000 TOTAL DISSOLVED SOLIDS CONTOUR (µg/L)

APPROXIMATE CONTOUR LOCATION

TIMET PROPERTY BOUNDARY

mg/L MILLIGRAM PER LITER

* NOT USED IN CONTOURING

Note:
The screening level used for total dissolved solids is the EPA National Secondary Drinking Water Standard. The standard for total dissolved solids is 1900 mg/L.

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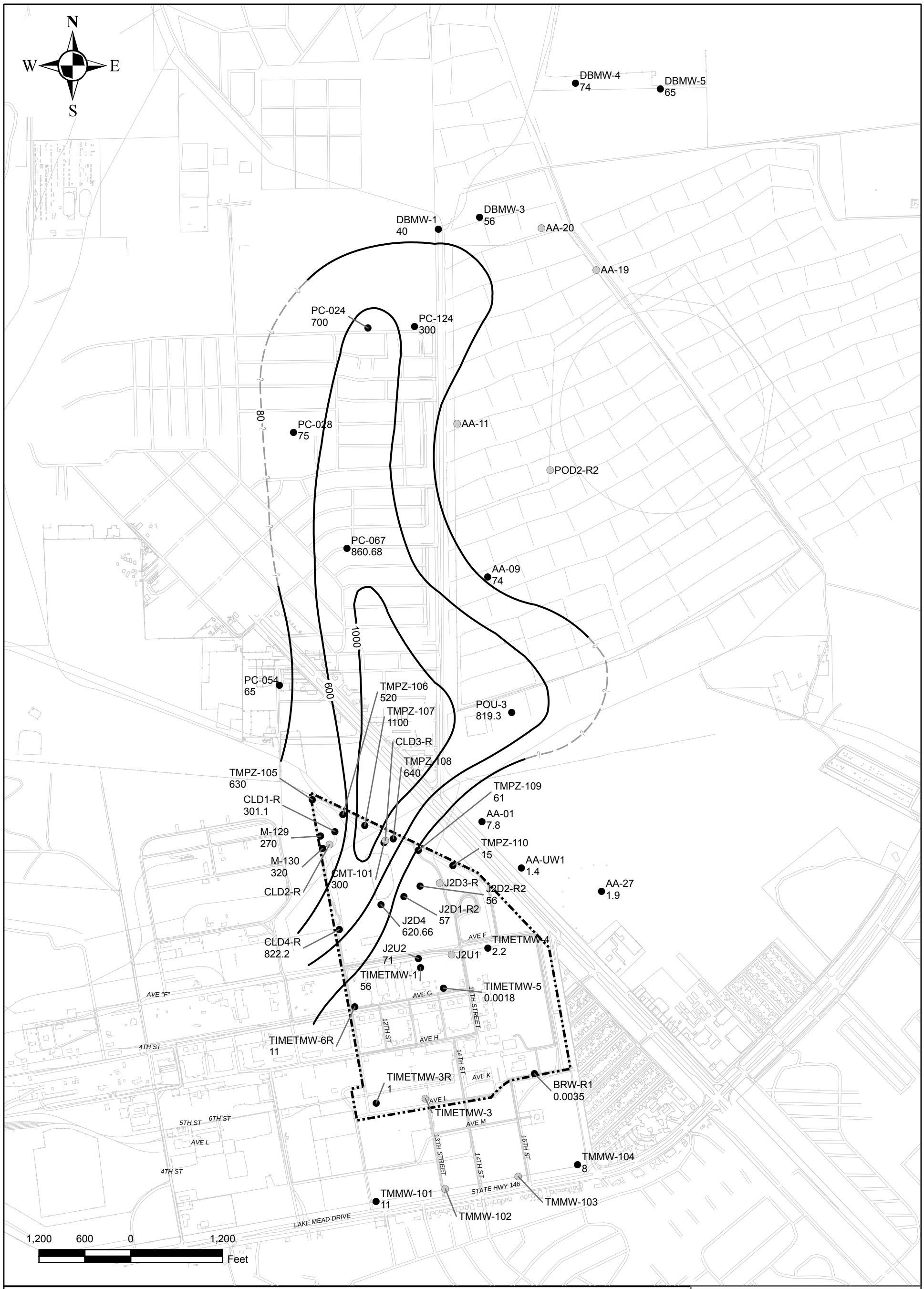
FIGURE D-10
TOTAL DISSOLVED SOLIDS ISOCONCENTRATION MAP
2ND SEMESTER 2011

TIMET

2012-05-24 C:\TIMET\2ndSEM2011\mxd\TIMET_siteTDS.mxd michelle.handley



BRW-R1 0.0035 ● MONITORING WELL WITH TOTAL TRIHALOMETHANES CONCENTRATION (µg/L)

WELL NOT ANALYZED

100 TOTAL TRIHALOMETHANES CONTOUR (µg/L)

APPROXIMATE CONTOUR LOCATION

TIMET PROPERTY BOUNDARY

µg/L MICROGRAM PER LITER

Note:
The screening level used for total trihalomethanes is the EPA National Drinking Water Standard Maximum Contaminant Level (MCL).
The MCL for total trihalomethanes is 80 µg/L.
[a] CMT data excluded from contouring.

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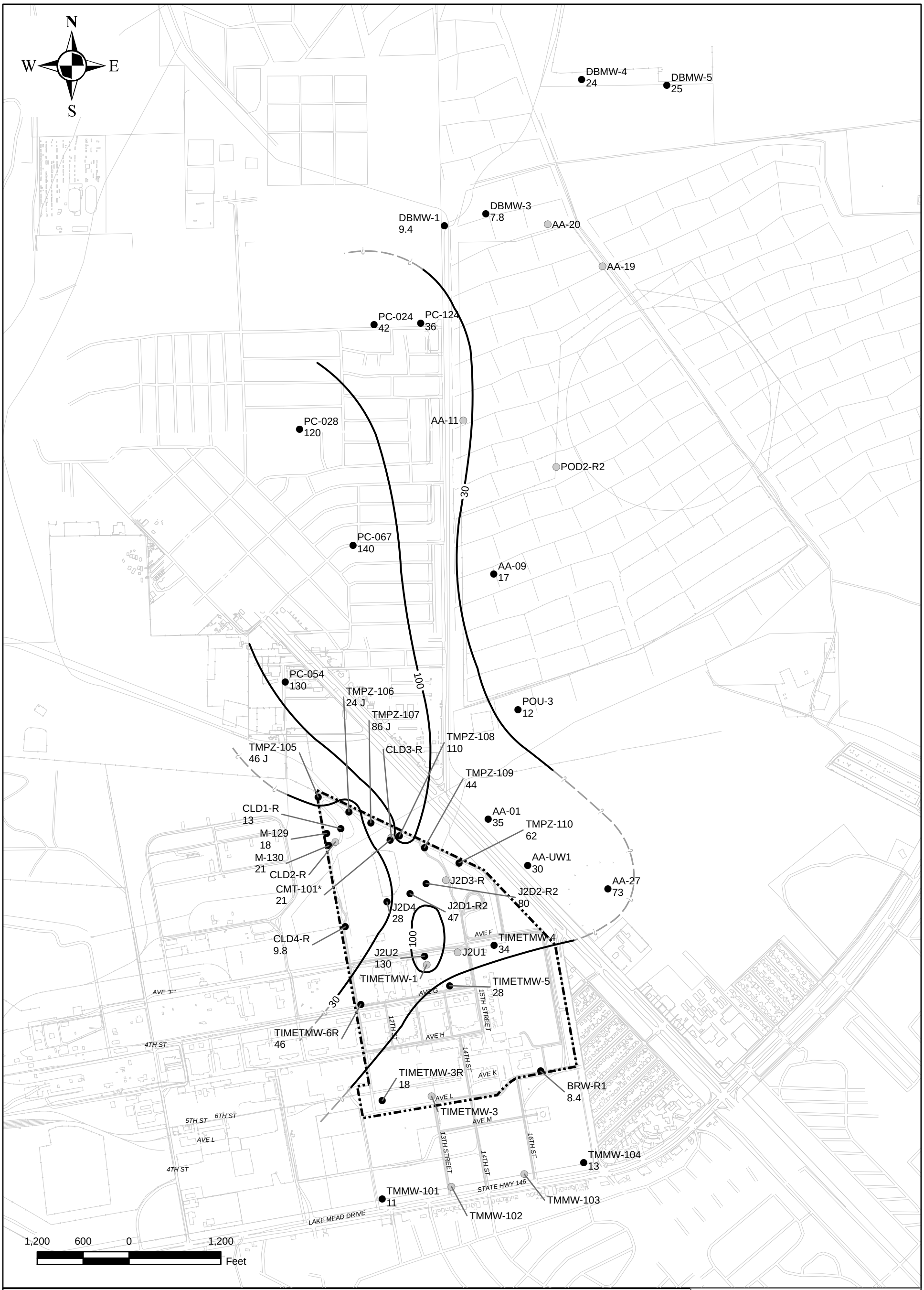
FIGURE D-11
TOTAL TRIHALOMETHANES ISOCONCENTRATION MAP
2ND SEMESTER 2011

TIMET

2012-05-24 C:\TIMET\2ndSEM2011\mxd\TIMET_siteTHM.mxd michelle.handley



BRW-R1 8.4 ● MONITORING WELL WITH TOTAL URANIUM CONCENTRATION (µg/L)

WELL NOT ANALYZED

100 TOTAL URANIUM CONTOUR (µg/L)

APPROXIMATE CONTOUR LOCATION

TIMET PROPERTY BOUNDARY

µg/L MICROGRAM PER LITER

* NOT USED IN CONTOURING

Note:
The screening level used for uranium is the residential water NDEP Basic Comparison Level (BCL). The NDEP BCL for uranium is 30 ug/L.

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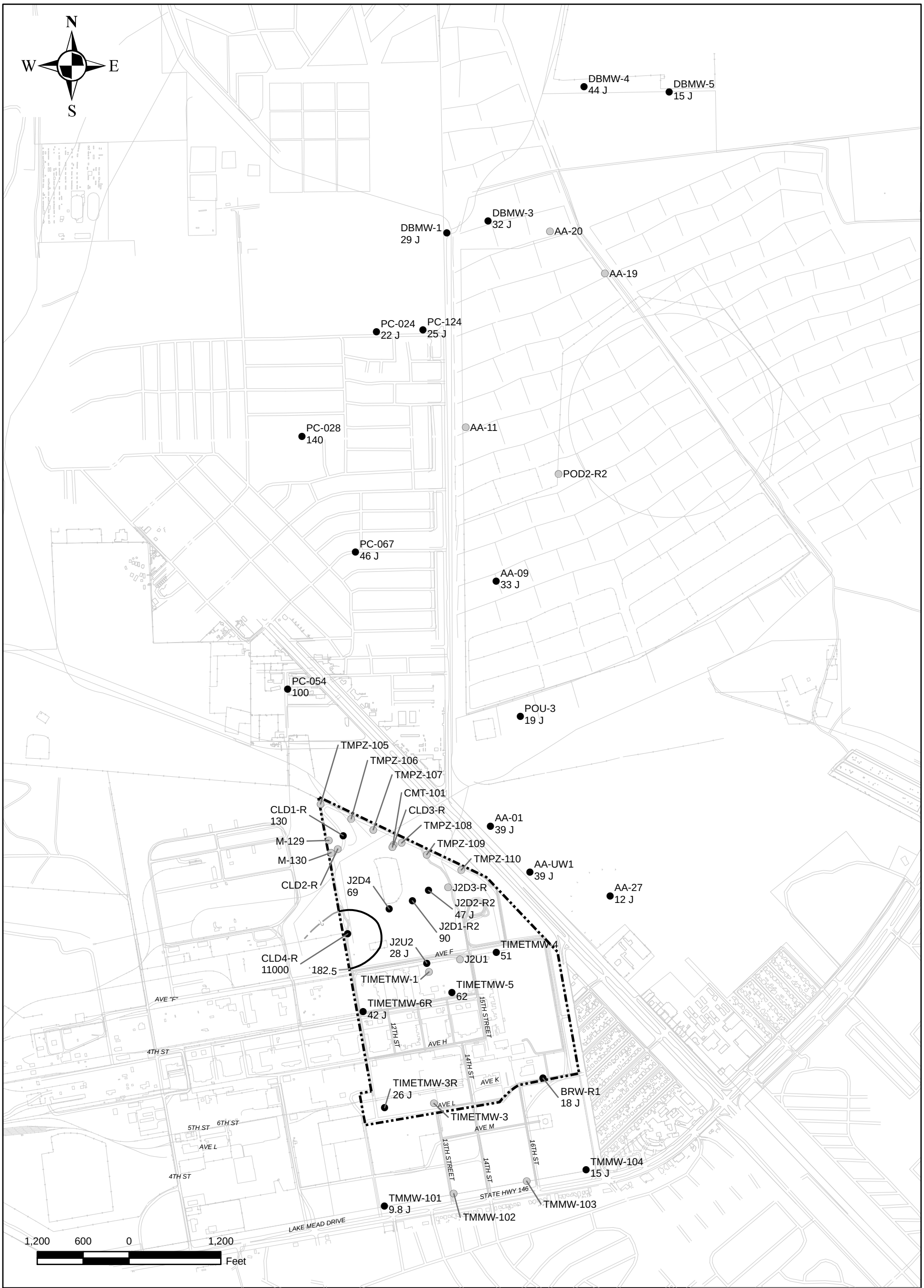
FIGURE D-12
TOTAL URANIUM
ISOCONCENTRATION MAP
2ND SEMESTER 2011

TIMET

2012-05-24 C:\TIMET\2ndSEM2011\mxd\TIMET_siteU.mxd michelle.handley



BRW-R1 18 J — MONITORING WELL WITH VANADIUM CONCENTRATION (µg/L)

WELL NOT ANALYZED

100 — VANADIUM CONTOUR (µg/L)

APPROXIMATE CONTOUR LOCATION

TIMET PROPERTY BOUNDARY

µg/L MICROGRAM PER LITER

Note:
The screening level used for vanadium is the residential water NDEP Basic Comparison Level (BCL). The NDEP BCL for vanadium is 182.5 ug/L.

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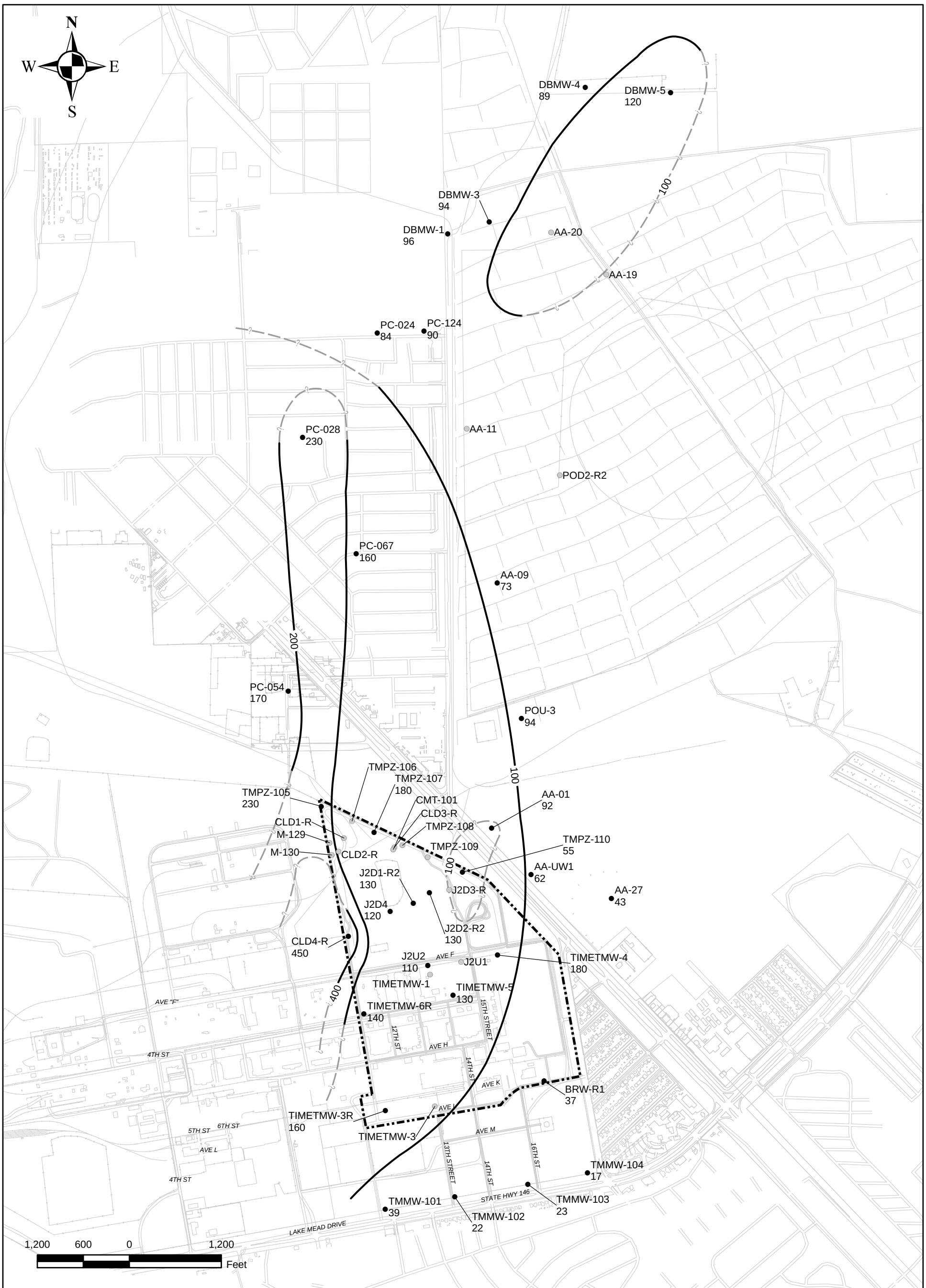
FIGURE D-13
VANADIUM
ISOCONCENTRATION MAP
2ND SEMESTER 2011

TIMET

2012-05-24 C:\TIMET\2ndSEM2011\mxd\TIMET_siteV.mxd michelle.handley

APPENDIX E

ISOCONCENTRATION MAPS, 1ST SEMESTER 2012



BRW-R1
37 ● MONITORING WELL WITH ARSENIC CONCENTRATION (µg/L)

WELL NOT ANALYZED

100 ARSENIC CONTOUR (µg/L)

APPROXIMATE CONTOUR LOCATION

TIMET PROPERTY BOUNDARY

µg/L MICROGRAM PER LITER

Note:
The screening level used for arsenic is the residential water NDEP Basic Comparison Level (BCL). The NDEP BCL for arsenic is 10 ug/L.

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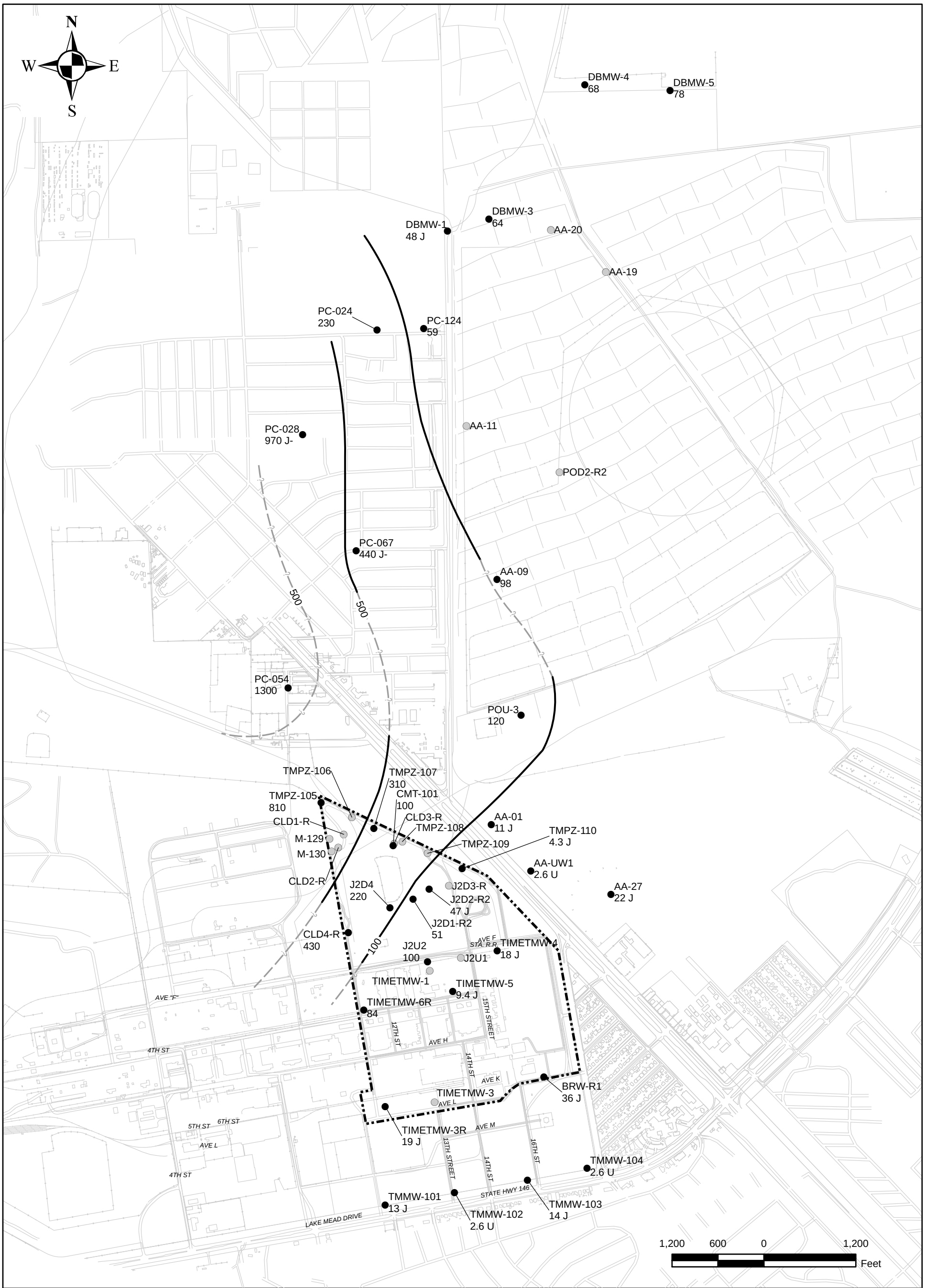
FIGURE E-1
ARSENIC
ISOCONCENTRATION MAP
1ST SEMESTER 2012

TIMET

2012-08-13 C:\TIMET\1stSEM2012\mxd\TIMET_siteAS.mxd michelle.handley



BRW-R1
36 J ● MONITORING WELL WITH CHROMIUM CONCENTRATION (µg/L)

WELL NOT ANALYZED

100 CHROMIUM CONTOUR (µg/L)

APPROXIMATE CONTOUR LOCATION

TIMET PROPERTY BOUNDARY

µg/L MICROGRAM PER LITER

Note:
The screening level used for chromium is the residential water NDEP Basic Comparison Level (BCL). The NDEP BCL for chromium is 100 ug/L.

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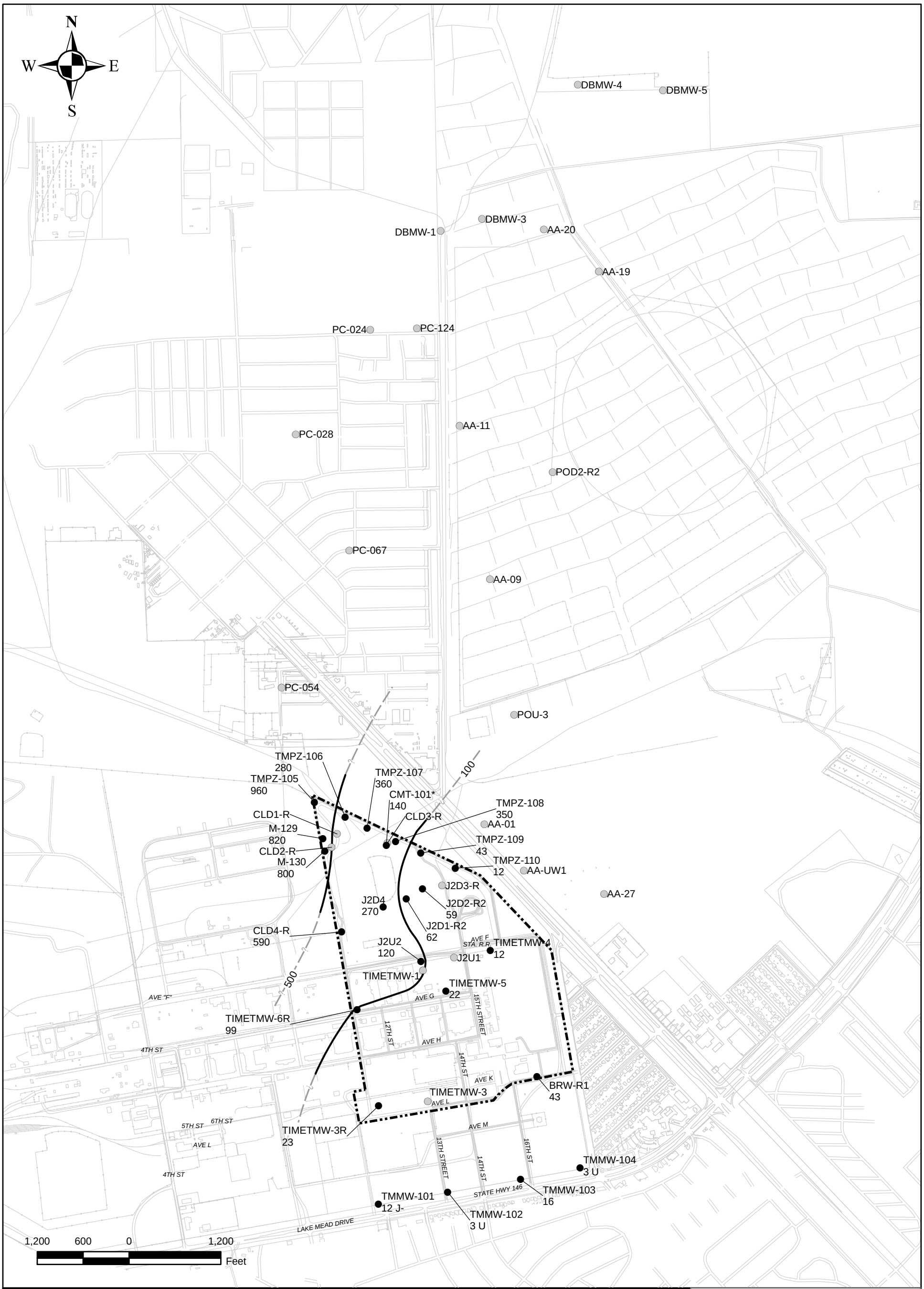
FIGURE E-2
CHROMIUM
ISOCONCENTRATION MAP
1ST SEMESTER 2012

TIMET

2012-08-13 C:\TIMET\1stSEM2012\mxd\TIMET_siteCR.mxd michelle.handley



BRW-R1 43 ● MONITORING WELL WITH HEXAVALENT CHROMIUM CONCENTRATION (µg/L)

WELL NOT ANALYZED

100 HEXAVALENT CHROMIUM CONTOUR (µg/L)

APPROXIMATE CONTOUR LOCATION

TIMET PROPERTY BOUNDARY

µg/L MICROGRAM PER LITER

* NOT USED IN CONTOURING

Note:
The screening level used for hexavalent chromium is the residential water NDEP Basic Comparison Level (BCL). The NDEP BCL for hexavalent chromium is 100 ug/L.

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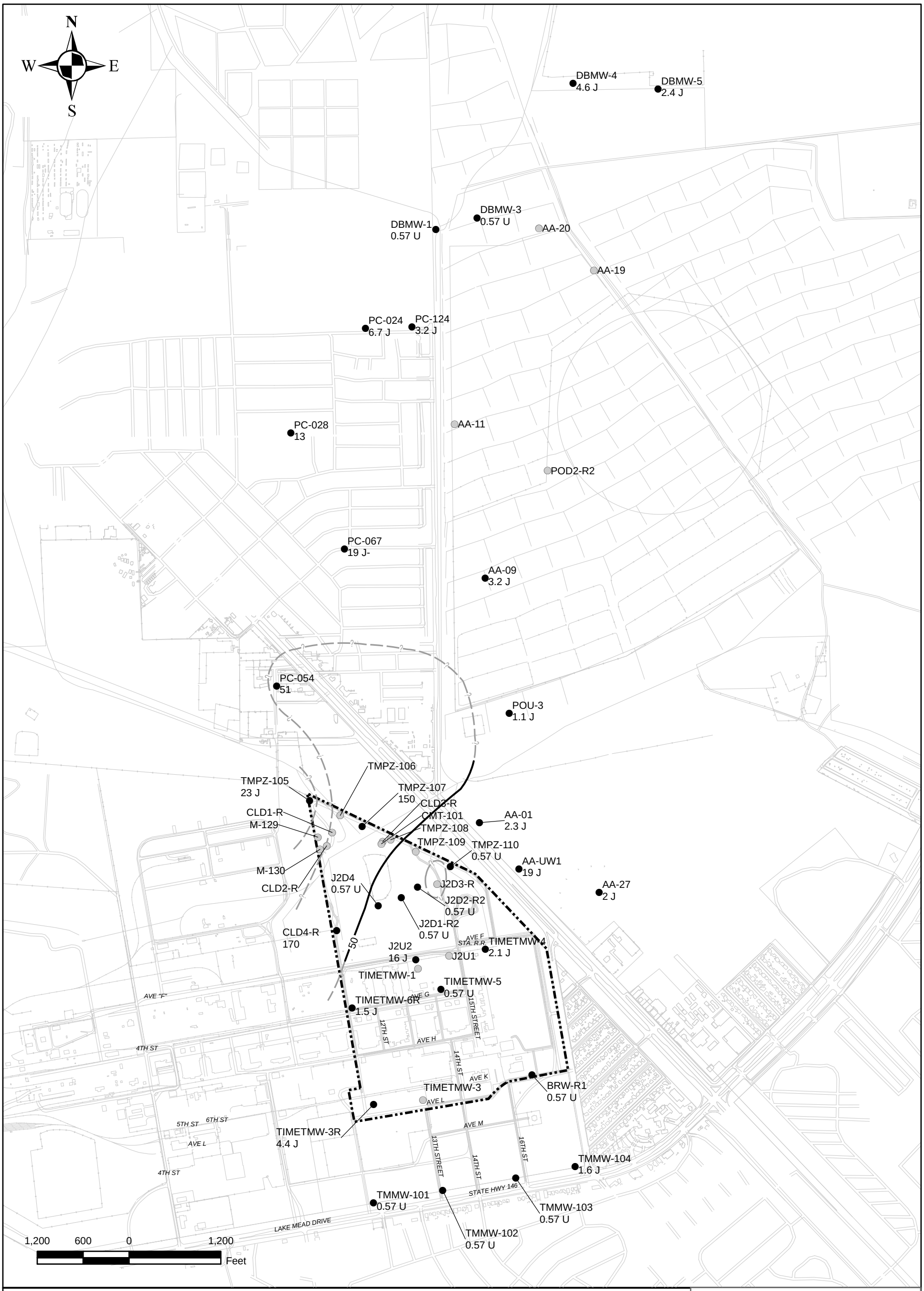
FIGURE E-3
HEXAVALENT CHROMIUM ISOCONCENTRATION MAP
1ST SEMESTER 2012

TIMET

2012-08-13 C:\TIMET\1stSEM2012\mxd\TIMET_siteHEXCR.mxd michelle.handley



BRW-R1 0.57 U — MONITORING WELL WITH MANGANESE CONCENTRATION (µg/L)

WELL NOT ANALYZED

10 — MANGANESE CONTOUR (µg/L)

APPROXIMATE CONTOUR LOCATION

TIMET PROPERTY BOUNDARY

µg/L MICROGRAM PER LITER

Note:
The screening level used for manganese is the residential water NDEP Basic Comparison Level (BCL). The NDEP BCL for manganese is 20 ug/L.

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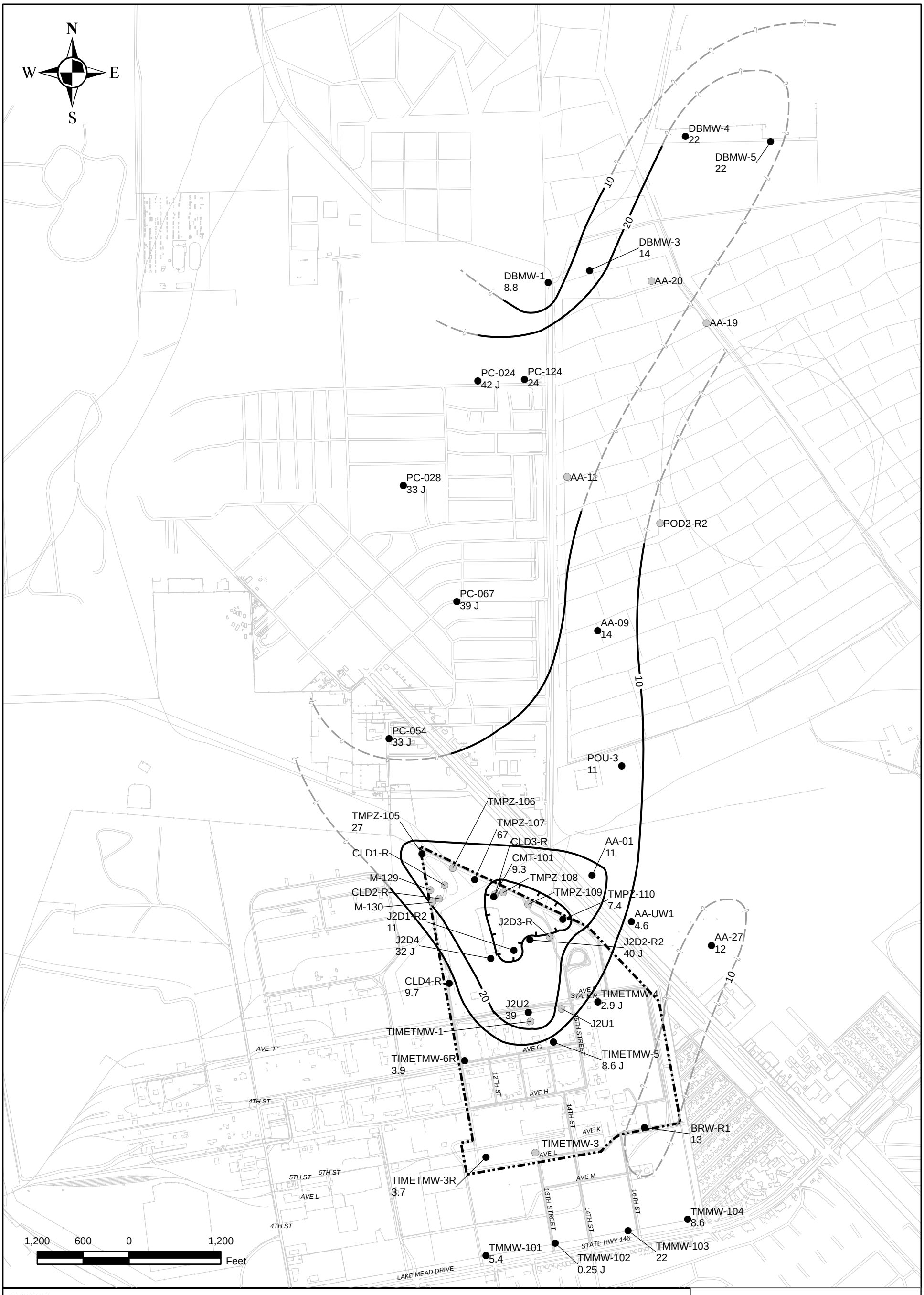
FIGURE E-4
MANGANESE
ISOCONCENTRATION MAP
1ST SEMESTER 2012

TIMET

2012-08-13 C:\TIMET\1stSEM2012\mxd\TIMET_siteMN.mxd michelle.handley



BRW-R1 13 ● MONITORING WELL WITH NITRATE AS NITROGEN CONCENTRATION (mg/L)

WELL NOT ANALYZED

10 NITRATE AS NITROGEN CONTOUR (mg/L)

APPROXIMATE CONTOUR LOCATION

TIMET PROPERTY BOUNDARY

mg/L MILLIGRAM PER LITER

Note:
The screening level used for nitrate is the residential water NDEP Basic Comparison Level (BCL). The NDEP BCL for nitrate is 10 mg/L.

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FIGURE E-5
NITRATE AS NITROGEN ISOCONCENTRATION MAP
1ST SEMESTER 2012

TIMET

2012-08-13 C:\TIMET\1stSEM2012\mxd\TIMET_siteN.mxd michelle.handley

BRW-R1 0.28 — MONITORING WELL WITH PERCHLORATE CONCENTRATION (mg/L)

WELL NOT ANALYZED

100 — PERCHLORATE CONTOUR (µg/L)

APPROXIMATE CONTOUR LOCATION

TIMET PROPERTY BOUNDARY

mg/L MILLIGRAM PER LITER

Note:
The screening level used for perchlorate is the residential water NDEP Basic Comparison Level (BCL). The NDEP BCL for perchlorate is 0.018 mg/L.

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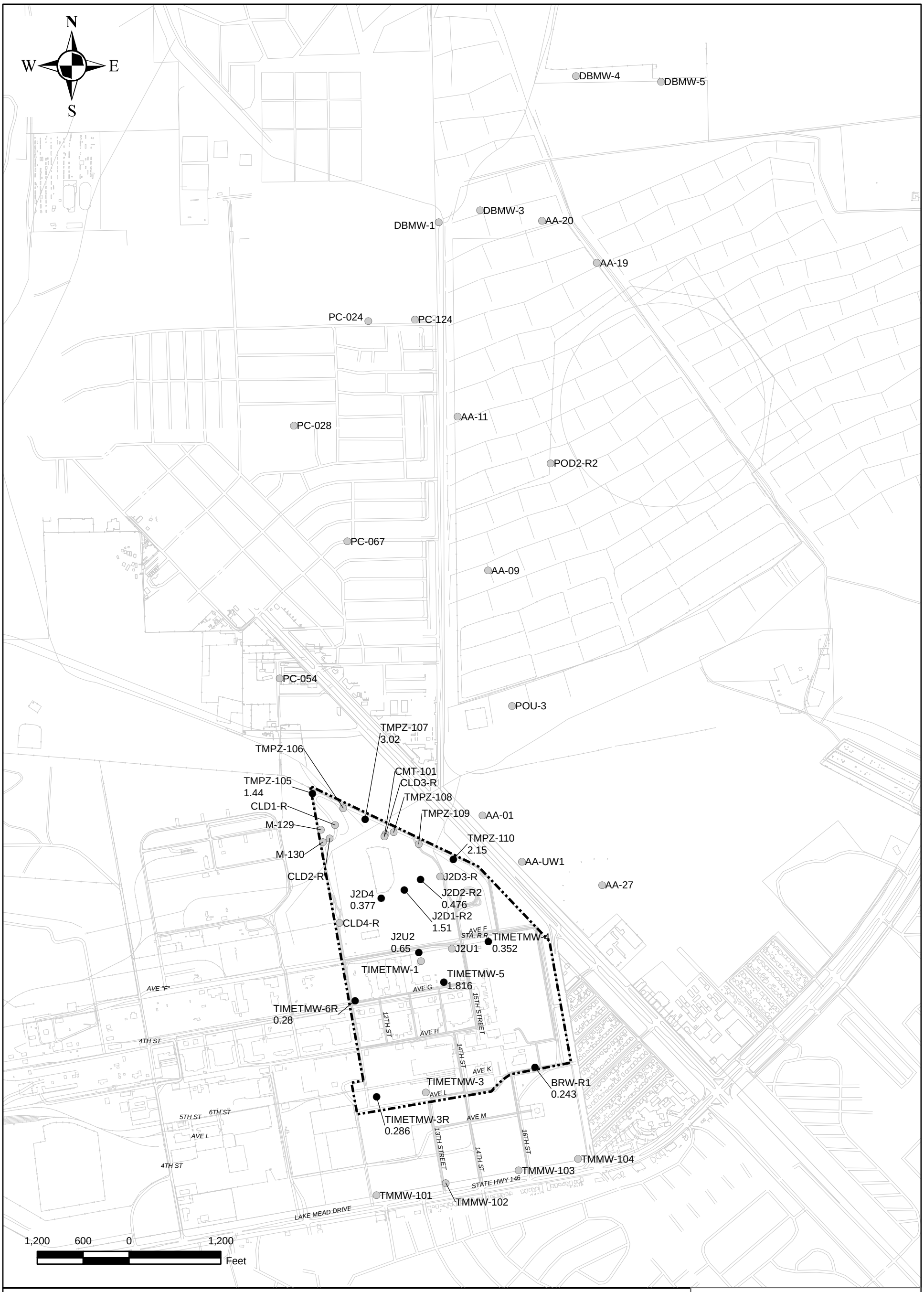
FIGURE E-6
PERCHLORATE ISOCONCENTRATION MAP
1ST SEMESTER 2012

TIMET

2012-08-13 C:\TIMET\1stSEM2012\mxd\TIMET_sitePERCHLORATE.mxd michelle.handley



BRW-R1 0.243 — MONITORING WELL WITH COMBINED RADIUM-226 AND RADIUM-228 CONCENTRATION (pCi/L)

WELL NOT ANALYZED

TIMET PROPERTY BOUNDARY

pCi/L PICOCURIE PER LITER

Note:
The screening level used for combined radium is the residential water NDEP Basic Comparison Level (BCL). The NDEP BCL for combined radium is 5 pCi/L.

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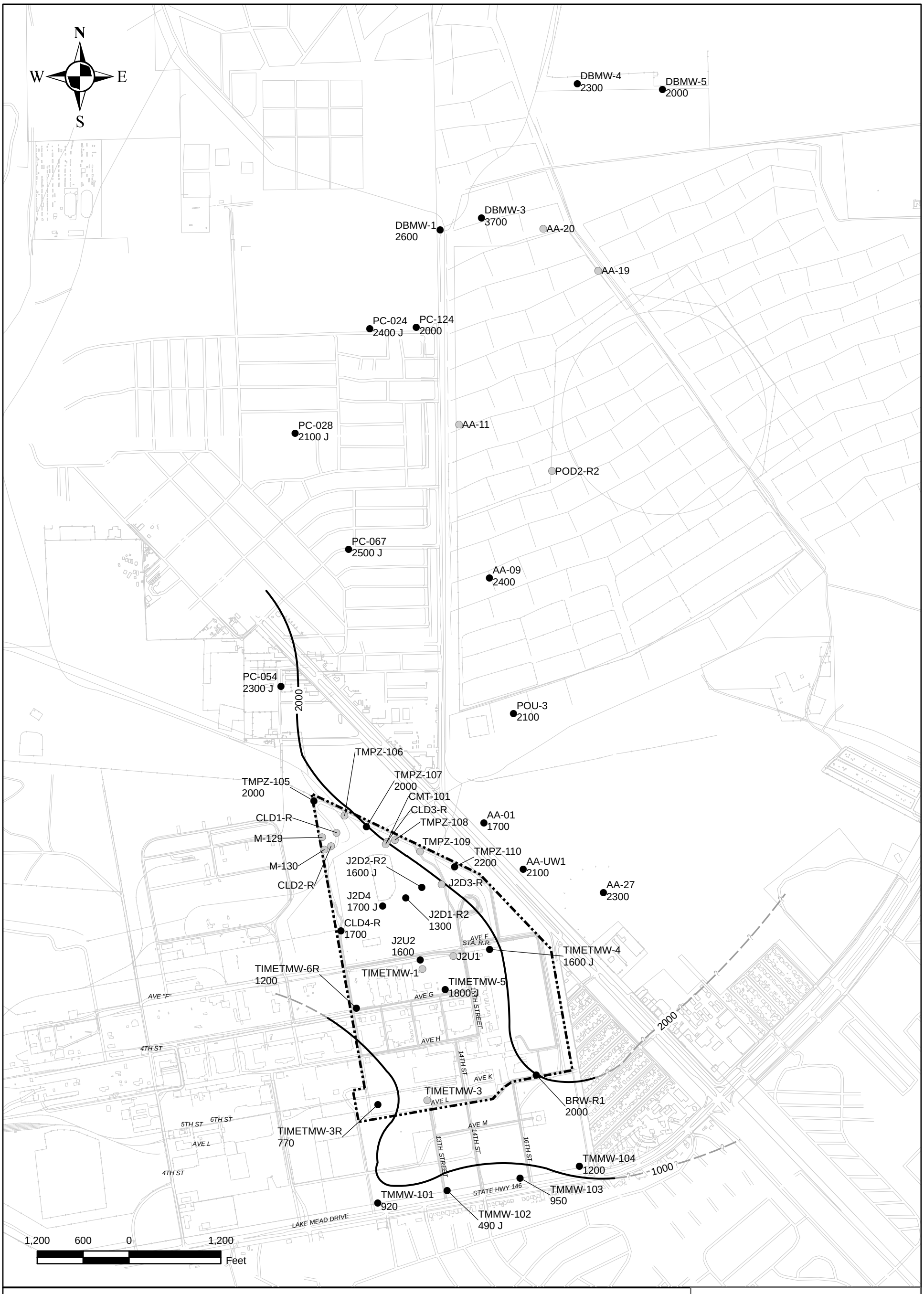
FIGURE E-7
COMBINED RADIUM-226 AND RADIUM-228 ISOCONCENTRATION MAP
1ST SEMESTER 2012

TIMET

2012-08-13 C:\TIMET\1stSEM2012\mxd\TIMET_siteRAD.mxd michelle.handley



BRW-R1 2000 ● MONITORING WELL WITH SULFATE CONCENTRATION (mg/L)

WELL NOT ANALYZED

2500 SULFATE CONTOUR (µg/L)

APPROXIMATE CONTOUR LOCATION

TIMET PROPERTY BOUNDARY

mg/L MILLIGRAM PER LITER

Note:
The screening level used for sulfate is the residential water NDEP Basic Comparison Level (BCL). The NDEP BCL for sulfate is 250 mg/L.

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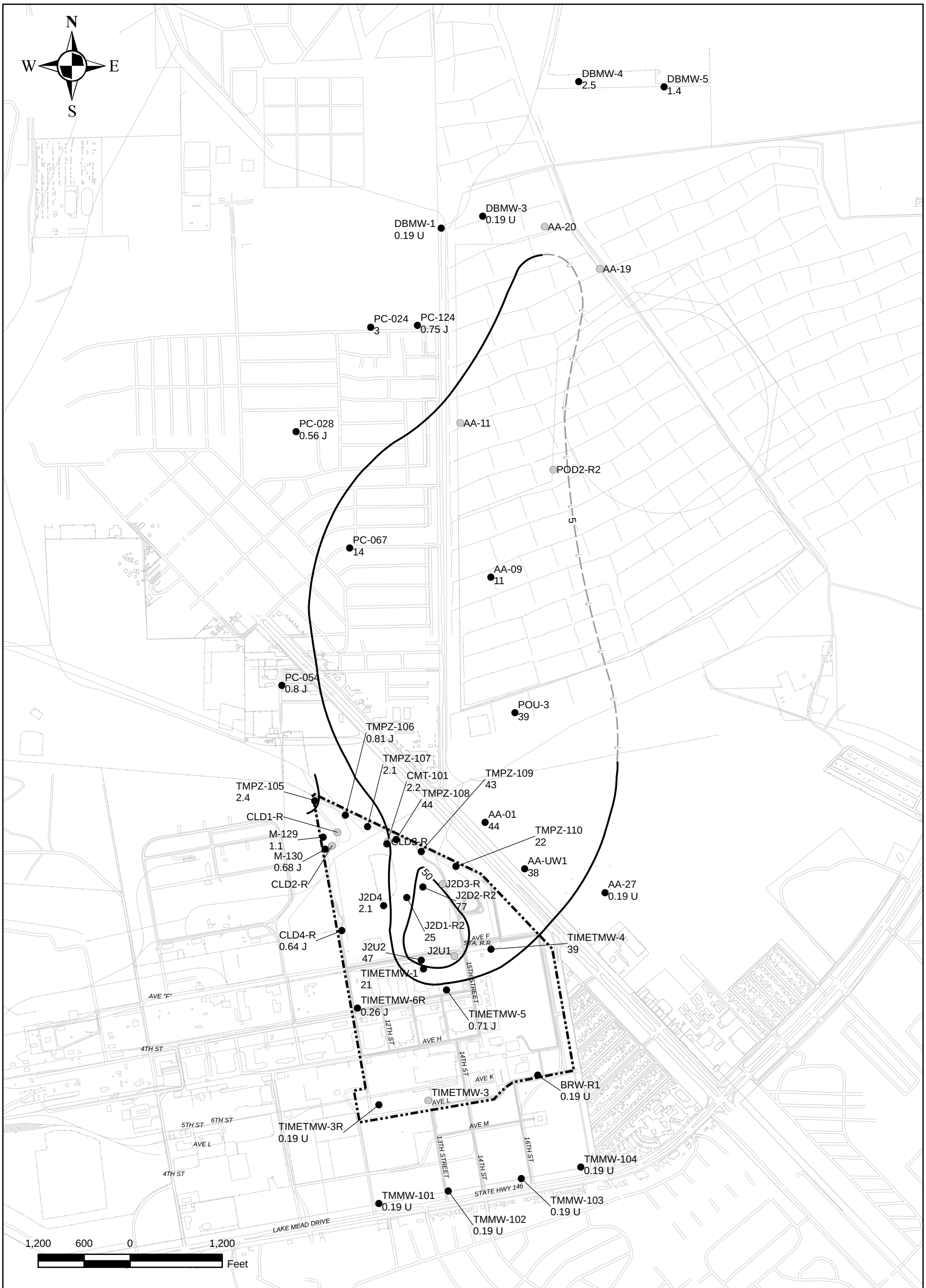
FIGURE E-8
SULFATE
ISOCONCENTRATION MAP
1ST SEMESTER 2012

TIMET

2012-08-13 C:\TIMET\1stSEM2012\mxd\TIMET_siteS.mxd michelle.handley



BRW-R1 0.19 U — MONITORING WELL WITH TETRACHLOROETHENE CONCENTRATION (µg/L)

WELL NOT ANALYZED

50 — TETRACHLOROETHENE CONTOUR (µg/L)

APPROXIMATE CONTOUR LOCATION

TIMET PROPERTY BOUNDARY

µg/L MICROGRAM PER LITER

Note:
The screening level used fortetrachloroethene is the residential water NDEP Basic Comparison Level (BCL). The NDEP BCL for tetrachloroethene is 5 ug/L.

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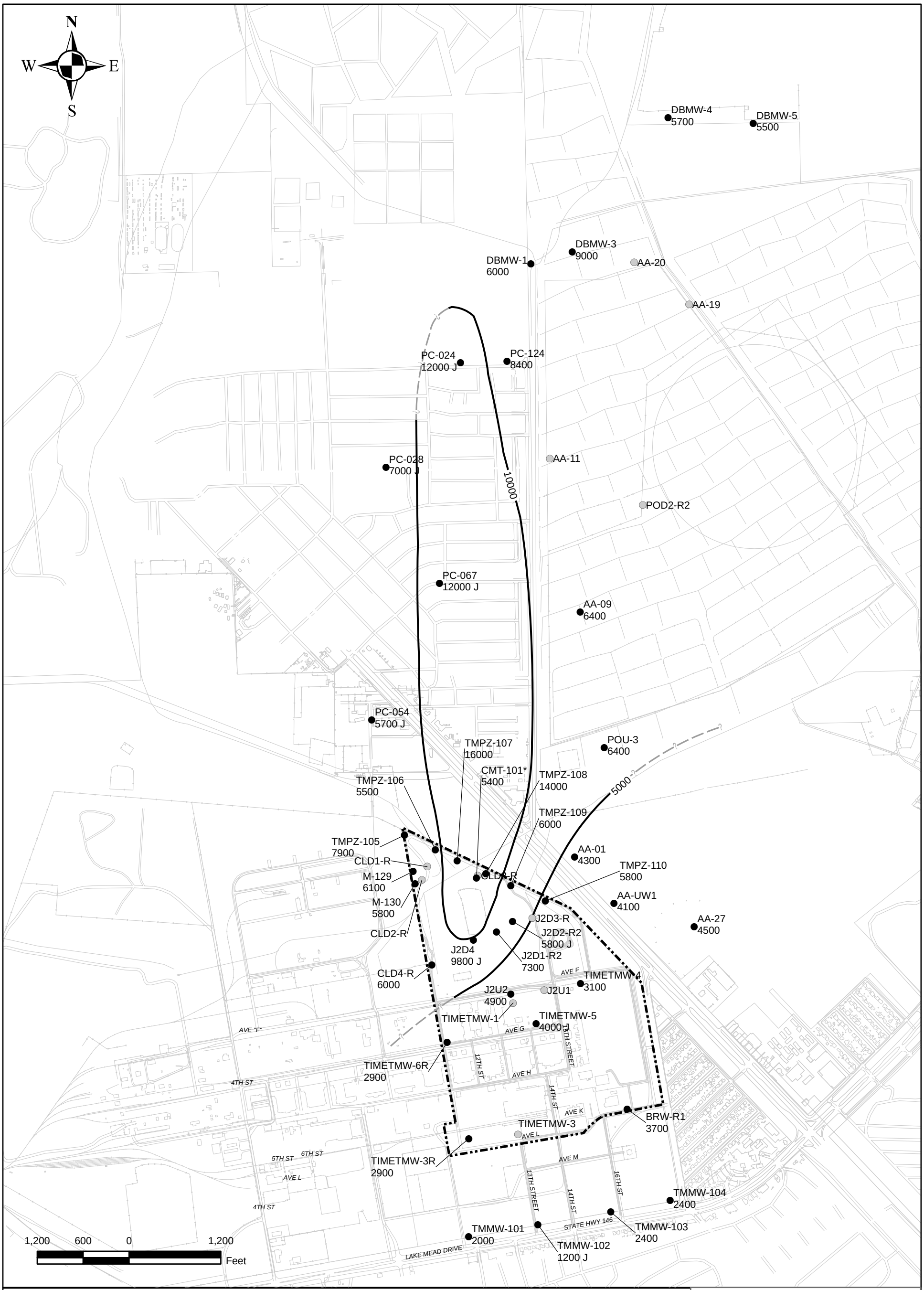
FIGURE E-9
TETRACHLOROETHENE ISOCONCENTRATION MAP
1ST SEMESTER 2012

TIMET

2012-08-13 C:\TIMET\1stSEM2012\mxd\TIMET_sitePCE.mxd michelle.handley



BRW-R1 3700 ● MONITORING WELL WITH TOTAL DISSOLVED SOLIDS CONCENTRATION (mg/L)

WELL NOT ANALYZED

10000 TOTAL DISSOLVED SOLIDS CONTOUR (µg/L)

APPROXIMATE CONTOUR LOCATION

TIMET PROPERTY BOUNDARY

mg/L MILLIGRAM PER LITER

* NOT USED IN CONTOURING

Note:
The screening level used for total dissolved solids is the EPA National Secondary Drinking Water Standard. The standard for total dissolved solids is 1900 mg/L.

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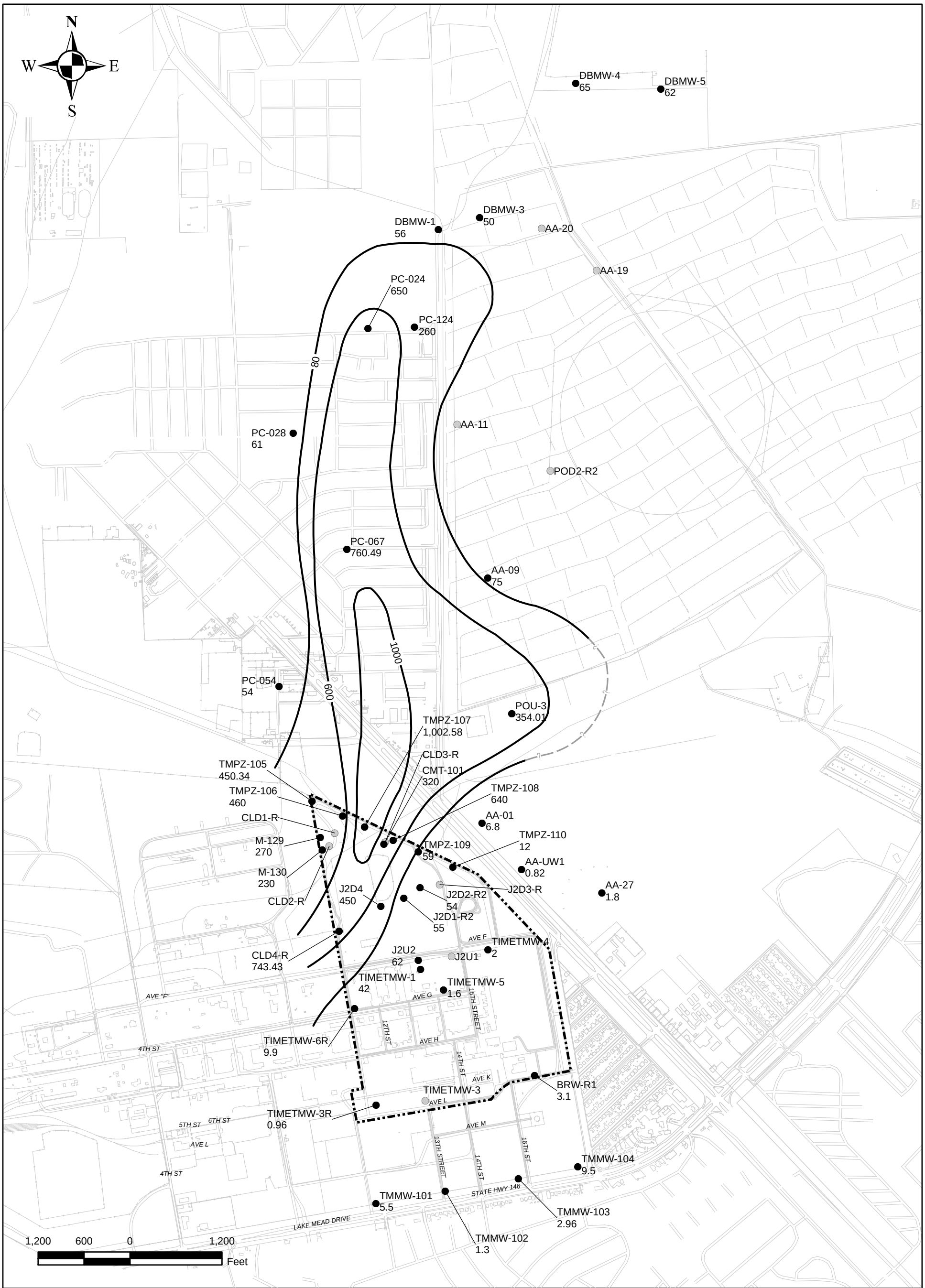
FIGURE E-10
TOTAL DISSOLVED SOLIDS ISOCONCENTRATION MAP
1ST SEMESTER 2012

TIMET

2012-08-13 C:\TIMET\1stSEM2012\mxd\TIMET_siteTDS.mxd michelle.handley



BRW-R1 3.1 — MONITORING WELL WITH TOTAL TRIHALOMETHANES CONCENTRATION (µg/L)

WELL NOT ANALYZED

100 — TOTAL TRIHALOMETHANES CONTOUR (µg/L)

APPROXIMATE CONTOUR LOCATION

TIMET PROPERTY BOUNDARY

µg/L MICROGRAM PER LITER

Note:
The screening level used for total trihalomethanes is the EPA National Drinking Water Standard Maximum Contaminant Level (MCL).
The MCL for total trihalomethanes is 80 µg/L.
[a] CMT data excluded from contouring.

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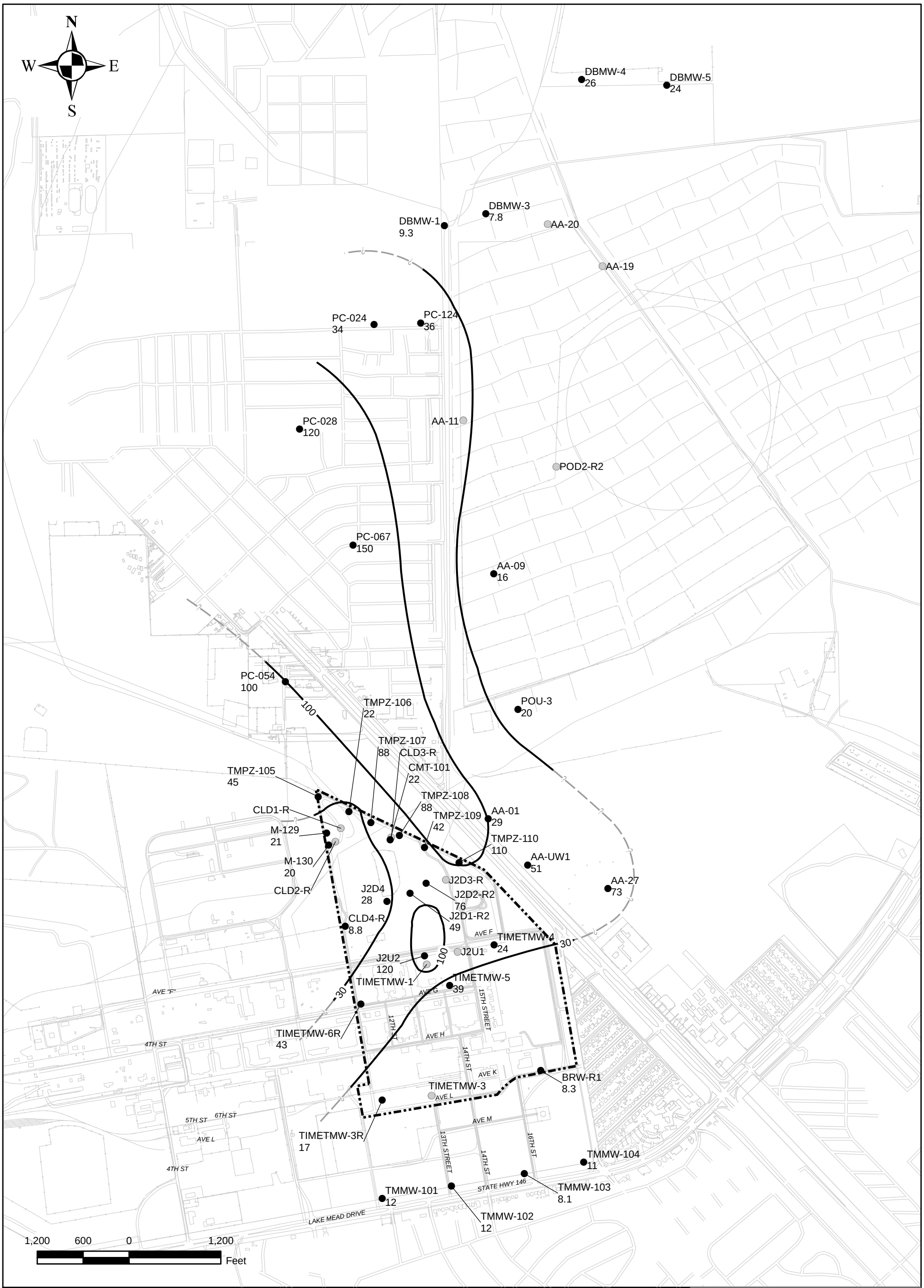
FIGURE E-11
TOTAL TRIHALOMETHANES ISOCONCENTRATION MAP
1ST SEMESTER 2012

TIMET

2012-08-13 C:\TIMET\1stSEM2012\mxd\TIMET_siteTHM.mxd michelle.handley



BRW-R1 8.3 ● MONITORING WELL WITH TOTAL URANIUM CONCENTRATION (µg/L)

WELL NOT ANALYZED

100 TOTAL URANIUM CONTOUR (µg/L)

APPROXIMATE CONTOUR LOCATION

TIMET PROPERTY BOUNDARY

µg/L MICROGRAM PER LITER

* NOT USED IN CONTOURING

Note:
The screening level used for uranium is the residential water NDEP Basic Comparison Level (BCL). The NDEP BCL for uranium is 30 ug/L.

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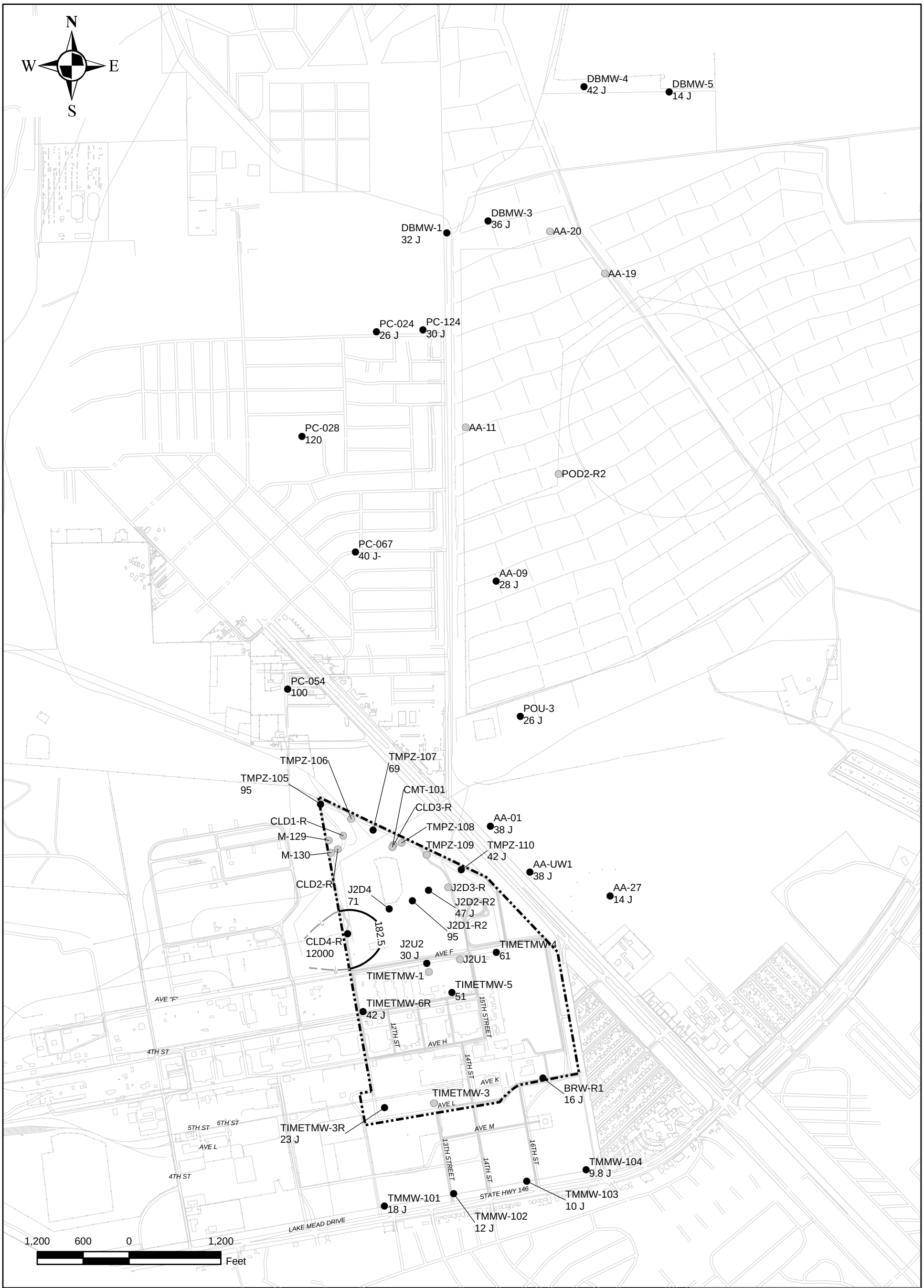
FIGURE E-12
TOTAL URANIUM
ISOCONCENTRATION MAP
1ST SEMESTER 2012

TIMET

2012-08-13 C:\TIMET\1stSEM2012\mxd\TIMET_siteU.mxd michelle.handley



BRW-R1 16 J ● MONITORING WELL WITH VANADIUM CONCENTRATION (µg/L)

WELL NOT ANALYZED

100 VANADIUM CONTOUR (µg/L)

APPROXIMATE CONTOUR LOCATION

TIMET PROPERTY BOUNDARY

µg/L MICROGRAM PER LITER

Note:
The screening level used for vanadium is the residential water NDEP Basic Comparison Level (BCL). The NDEP BCL for vanadium is 182.5 ug/L.

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FIGURE E-13
VANADIUM
ISOCONCENTRATION MAP
1ST SEMESTER 2012

TIMET

2012-08-13 C:\TIMET\1stSEM2012\mxd\TIMET_siteV.mxd michelle.handley

APPENDIX F

FIELD SAMPLE FORMS

(PROVIDED ELECTRONICALLY)